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Water Resources Data Georgia Water Year 1990

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Prepared in cooperation with the State of Georgia
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CALENDAR FOR WATER YEAR 1990

1989

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

1990

JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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21	22	23	24	25	26	27	18	19	20	21	22	23	24	18	19	20	21	22	23	24
28	29	30	31				25	26	27	28				25	26	27	28	29	30	31

APRIL							MAY							JUNE						
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22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23
29	30						27	28	29	30	31			24	25	26	27	28	29	30

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



Water Resources Data Georgia

Water Year 1990

by W.R. Stokes, III, R.D. McFarlane, and G.R. Buell



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT GA-90-1
Prepared in cooperation with the State of Georgia
and with other agencies

U.S. DEPARTMENT OF THE INTERIOR

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PREFACE

This volume of the annual hydrologic data report of Georgia 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 Georgia are contained in 1 volume.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

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CONTENTS

	Page
Preface.....	iii
List of surface-water stations, in downstream order, for which records are published.....	vi
List of ground-water wells, by county, for which records are published.....	x
List of precipitation-quality stations, by county, for which records are published.....	x
Introduction.....	1
Cooperation.....	1
Summary of hydrologic conditions.....	2
Streamflow.....	2
Water quality.....	4
Water-quality profiles of the Chattahoochee River.....	4
Water-quality profiles of the Ocmulgee and Altamaha Rivers.....	4
Ground water.....	4
Water use.....	7
Special networks and programs.....	9
Explanation of records.....	9
Station identification numbers.....	9
Downstream order system.....	9
Latitude-longitude system.....	10
Records of stage and water discharge.....	10
Data collection and computation.....	10
Data presentation.....	11
Identifying estimated daily discharge.....	12
Accuracy of the records.....	12
Other records available.....	13
Records of surface-water quality.....	13
Classification of records.....	13
On-site measurements and sample collection.....	13
Water temperature.....	13
Sediment.....	13
Laboratory measurements.....	14
Data presentation.....	14
Remark codes.....	14
Records of ground-water levels.....	14
Data collection and computations.....	15
Data presentation.....	15
Records of precipitation-quality.....	15
On-site measurements and sample collection.....	15
Data presentation.....	16
Access to WATSTORE data.....	16
Definition of terms.....	17
Publications on techniques of water-resources investigations.....	23
Station records, surface water.....	29
Discharge at partial-record stations and miscellaneous sites.....	504
Crest-stage partial-record stations.....	504
Peak discharge at miscellaneous sites.....	514
List of active and discontinued gaging stations.....	515
Station records, ground water.....	521
Ground-water levels.....	521
Station records, precipitation.....	546
Precipitation-quality records.....	546
Index.....	551

ILLUSTRATIONS

	Page
Figure 1. Graph of comparison of discharge at three representative long-term gaging stations.....	3
2. Graph of comparison of current and long-term river-reach profiles of selected water-quality constituents for the Chattahoochee River.....	5
3. Graph of comparison of current and long-term river-reach profiles of selected water-quality constituents for the Ocmulgee and Altamaha Rivers.....	6
4. Permitted water withdrawal for water year 1990, by use category.....	7
5. Map showing permitted water withdrawal for water year, by county; (a) public supply, (b) industrial, (c) thermoelectric.....	8
6. System for numbering wells and other off-stream sites.....	10
7. Map showing location of gaging stations.....	25
8. Map showing location of crest-stage partial-record stations.....	26
9. Map showing location of water-quality sampling stations.....	27
10. Map showing location of selected ground-water level observation wells.....	28

SURFACE WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

[Letters after station names designate type of data: (d) discharge; (g) gage height; (c) chemical; (m) microbiological, (s) sediment; and continuously monitored water-quality characteristics; (k) specific conductance; (h) pH; (t) water temperature; and (o) dissolved oxygen

Page

SAVANNAH RIVER BASIN

Chattooga River (head of Savannah River) near Clayton (dcm).....	31
Stekoa Creek below Clayton (c).....	35
Tallahatchee River near Clayton (dc).....	36
Tugaloo River (continuation of Chattooga River):	
Savannah River below Hartwell Lake near Hartwell (d).....	41
Savannah River near Iva, S.C. (cm).....	42
Beaverdam Creek above Elberton (d).....	43
Broad River near Bell (dc).....	44
Little River:	
Kettle Creek near Washington (d).....	47
Little River near Washington (d).....	48
Savannah River at near Martinez (c).....	50
Butler Creek at Fort Gordon (d).....	51
Butler Creek at levee at Augusta (c).....	53
Savannah River at Augusta (dc).....	54
Savannah River below Spirit Creek near Augusta (c).....	57
Savannah River near Jackson, S.C. (dt).....	58
Savannah River below Steel Creek, near Millett, S.C. (t).....	61
Savannah River at Stony Bluff Landing (c).....	63
Savannah River at Burtons Ferry Bridge, near Millhaven (dc).....	64
Brier Creek near Thomson (d).....	66
Brushy Creek near Wrens (d).....	67
Brier Creek near Waynesboro (d).....	68
Brier Creek at Millhaven (dc).....	69
Beaverdam Creek near Sardis (d).....	72
Savannah River near Clio (dcms).....	73
Ebenezer Creek at Springfield (d).....	81
Savannah River near Port Wentworth (gk).....	82
Savannah (Front) River at U.S. 17 at Port Wentworth (gk).....	86
Savannah River at Broad Street at Savannah (g).....	90
Little Back River above Lucknow Canal near Limehouse, S.C. (k).....	92
Little Back River:	
Lucknow Canal near Limehouse, S.C. (k).....	93
Little Back River near Limehouse, S.C. (gk).....	96
Little Back River at U.S. Fish and Wildlife Dock near Limehouse, S.C. (k).....	101
Savannah River at Fort Pulaski (g).....	103
Lakes and reservoirs in Savannah River basin.....	105

OGEECHEE RIVER BASIN

Ogeechee River:	
Williamson Swamp Creek at Davisboro (dc).....	109
Ogeechee River near Oliver (cm).....	111
Ogeechee River near Eden (dcms).....	112
Black Creek near Blitchton (d).....	117
Canoochee River near Claxton (dcm).....	118
Canoochee River near Richmond Hill (cm).....	120

NORTH NEWPORT RIVER BASIN

North Newport River at Halfmoon Landing (cm).....	121
---	-----

ALTAMAHA RIVER BASIN

South River (head of Altamaha River) at Atlanta (cm).....	123
South River near Lithonia (cm).....	124
South River at Klondike Road, near Lithonia (dcmto).....	125
South River at Snapping Shoals (cm).....	133
Yellow River near Snellville (dcm).....	135
Yellow River at Milstead (cm).....	138
Yellow River near Stewart (cm).....	139
Ocmulgee River (continuation of South River):	
Alcovy River above Covington (d).....	141
Alcovy River above Stewart (cm).....	142
Ocmulgee River near Jackson (dcm).....	143
Falling Creek near Juliette (dcms).....	145
Ocmulgee River above Macon (cm).....	150

ALTAMAHA RIVER BASIN--Continued

Ocmulgee River at Macon (d).....	152
Walnut Creek near Gray (d).....	154
Tobesofkee Creek near Macon (d).....	155
Ocmulgee River near Warner Robins (dcmkhto).....	156
Ocmulgee River near Bonaire (cm).....	167
Tusawhatchee Creek near Hawkinsville (d).....	168
Ocmulgee River at Abbeville (c).....	169
Ocmulgee River at Lumber City (dcm).....	170
Little Ocmulgee River:	
Sugar Creek:	
Turnpike Creek near McRae (d).....	174
Pond Fork (head of Oconee River):	
Middle Oconee River (continuation of Pond Fork) near Arcade (d).....	175
Middle Oconee River near Athens (d).....	176
North Oconee River above Athens (cm).....	177
Oconee River near Watkinsville (cm).....	178
Oconee River near Penfield (d).....	180
Apalachee River near Bostwick (dc).....	181
Little River near Eatonton (dc).....	183
Murder Creek below Eatonton (dc).....	185
Oconee River at Milledgeville (dcm).....	187
Oconee River near Hardwick (cm).....	189
Oconee River near Toombsboro (cm).....	190
Oconee River at Dublin (d).....	191
Oconee River at I-16, near Dublin (cm).....	193
Turkey Creek:	
Rocky Creek near Dudley (c).....	195
Oconee River near Mount Vernon (c).....	196
Altamaha River near Baxley (dcm).....	197
Ochopee River near Reidsville (dc).....	200
Altamaha River near Jesup (cm).....	203
Altamaha River at Doctortown (d).....	204
Altamaha River near Gardi (cm).....	206
Penholoway Creek near Jesup (dc).....	208
Altamaha River near Everett City (cs).....	210
Lakes and reservoirs in Altamaha River basin.....	215

BRUNSWICK RIVER BASIN

Turtle River (head of Brunswick River) at Georgia Highway 303 at Brunswick (g).....	217
East River at Mayors Point Terminal at Brunswick (g).....	219
South Brunswick River at Colonels Island near Brunswick (g).....	221
Brunswick River at Jekyll Island near Brunswick (g).....	223
Makay River at Torras Causeway near Brunswick (g).....	225
Brunswick River at Village Pier at St. Simons Island (g).....	227

SATILLA RIVER BASIN

Satilla River at Walertown (cm).....	229
Satilla River near Waycross (d).....	230
Satilla River near Hoboken (cm).....	231
Little Satilla River near Offerman (d).....	233
Satilla River at Atkinson (dcms).....	234

CROOKED RIVER BASIN

Cumberland Sound at Dungeness Dock near St Marys (g).....	239
---	-----

ST MARYS RIVER BASIN

St Marys River near Macclenny, Fla. (dg).....	246
St Marys River at Boulogne, Fla. (cm).....	248
St Marys River near Gross, Fla. (dg).....	249

SUWANNEE RIVER BASIN

Suwannee River at Fargo (dcm).....	252
Alapaha River near Alapaha (c).....	256
Alapaha River at Statenville (dc).....	257
Withlacoochee River:	
New River near Tifton (cm).....	260
Withlacoochee River at McMillan Road near Bemiss (d).....	261
Withlacoochee River above Valdosta (cm).....	262
Withlacoochee River near Valdosta (cm).....	263
Withlacoochee River near Quitman (dcm).....	264
Okapilco Creek at State Highway 33, near Quitman (d).....	267
Okapilco Creek at Quitman (cm).....	268
Withlacoochee River near Clyattville (cm).....	269

OCHLOCKONEE RIVER BASIN

Ochlockonee River near Moultrie (cm).....	271
Ochlockonee River near Thomasville (cm).....	272
Ochlockonee River near Calvary (cm).....	274

APALACHICOLA RIVER BASIN

Chattahoochee River (head of Apalachicola River) at Helen (d).....	276
Chattahoochee River at Nacoochee (c).....	277
Chattahoochee River near Cornelia (dcms).....	278
Chestatee River near Dahlonega (ds).....	282
Chattahoochee River at Buford Dam, near Buford (d).....	284
Suwanee Creek near Suwanee (d).....	286
Chattahoochee River near Norcross (d).....	287
Chattahoochee River above Roswell (d).....	288
Big Creek near Alpharetta (d).....	289
Chattahoochee River at Morgan Falls Dam at Sandy Springs (g).....	290
Sope Creek near Marietta (d).....	293
Chattahoochee River at Atlanta (dc).....	295
Peachtree Creek at Atlanta (dgcm).....	296
Chattahoochee River at State Highway 280, near Atlanta (d).....	300
Chattahoochee River at I-285, at Atlanta (cm).....	301
Sweetwater Creek near Austell (dcm).....	303
Chattahoochee River near Fairburn (dcmkhto).....	306
Chattahoochee River at Capps Ferry Bridge near Rico (c).....	317
Snake Creek near Whitesburg (dc).....	318
Chattahoochee River near Whitesburg (dcms).....	321
Chattahoochee River at Franklin (cm).....	325
New River near Corinth (d).....	327
Chattahoochee River near LaGrange (cm).....	328
Chattahoochee River at West Point (dgcm).....	330
Long Cane Creek near West Point (cm).....	333
Chattahoochee River at Langdale, Ala. (g).....	335
Chattahoochee River at Columbus (dg).....	336
Upatoi Creek near Columbus (d).....	339
Chattahoochee River near Columbia, Ala. (dcms).....	340
Chattahoochee River near Steam Mill (cm).....	344
Flint River near Jonesboro (cm).....	346
Flint River near Fayetteville (cm).....	347
Flint River near Lovejoy (d).....	348
Flint River near Inman (cm).....	349
Flint River above Griffin (cm).....	350
Flint River near Griffin (d).....	352
Line Creek near Senoia (d).....	354
Flint River near Thomaston (d).....	355
Flint River near Culloden (dc).....	356
Flint River at Montezuma (dgcm).....	359
Turkey Creek at Byromville (d).....	364
Flint River near Vienna (cm).....	367
Flint River at State Highway 32 near Oakfield (d).....	369
Kinchafoonee Creek at Preston (cm).....	370
Kinchafoonee Creek near Dawson (d).....	372
Muckalee Creek at State Highway 195, near Leesburg (d).....	373
Flint River at Albany (dgcm).....	374
Flint River near Putney (cm).....	378
Flint River at Newton (dcms).....	380
Ichawaynochaway Creek:	
Pachitla Creek near Edison (d).....	386
Ichawaynochaway Creek at Milford (dc).....	387
Flint River at Bainbridge (g).....	392
Flint River below Bainbridge (cm).....	393
Spring Creek near Iron City (d).....	395
Lakes and reservoirs in Apalachicola River basin.....	396

MOBILE RIVER BASIN

Cartecay River (head of Mobile River):	
Coosawattee River (continuation of Cartecay River) near Ellijay (d).....	401
Talking Rock Creek:	
Talona Creek:	
Fausett Creek near Talking Rock (d).....	402
Scarecorn Creek above Hinton (d).....	403
Scarecorn Creek at Hinton (d).....	405
Talking Rock Creek near Hinton (d).....	407
Coosawattee River at Carters (d).....	408
Coosawattee River near Pine Chapel (d).....	409

	Page
MOBILE RIVER BASIN--Continued	
Coosawattee River--Continued	
Coosawattee River near Calhoun (cm).....	410
Conasauga River near Eton (d).....	411
Mill Creek near Crandall (d).....	412
Conasauga River near Dalton (cm).....	413
Holly Creek near Chatsworth (d).....	415
Conasauga River at Tilton (dcmkhto).....	416
Conasauga River near Resaca (cm).....	428
Oostanaula River (continuation of Coosawattee River) at Resaca (dgs).....	429
Oostanaula River below Resaca (cm).....	433
Armuchee Creek:	
Little Armuchee Creek:	
Heath Creek below Rocky Mountain Damsite, near Armuchee (d).....	435
Oostanaula River near Rome (d).....	436
Oostanaula River at Rome (cm).....	437
Oostanaula River at 5th Avenue, at Rome (g).....	438
Etowah River near Dawsonville (c).....	439
Etowah River at Canton (dgcm).....	441
Etowah River at Allatoona Dam, above Cartersville (dcm).....	445
Etowah River near Cartersville (g).....	447
Etowah River at Euharlee (g).....	452
Etowah River near Euharlee (cm).....	457
Etowah River near Kingston (d).....	459
Two Run Creek near Kingston (d).....	460
Etowah River at Rome (dcm).....	461
Coosa River (continuation of Oostanaula River) near Rome (dgcmf).....	463
Cedar Creek at Cedartown (d).....	470
Cedar Creek near Cedartown (cm).....	471
Coosa River near Coosa (cmkhto).....	473
Chattooga River:	
Spring Creek near Trion (c).....	483
Chattooga River at Summerville (dcm).....	484
Chattooga River at Chattoogaville (cm).....	487
Tallapoosa River below Tallapoosa (cm).....	489
Little Tallapoosa River below Bowdon (cm).....	490
Lakes and reservoirs in Mobile River basin.....	492
TENNESSEE RIVER BASIN	
Tennessee River:	
Little Tennessee River near Dillard (c).....	495
Hiwassee River:	
Corbin Creek:	
Brier Creek near Hiawassee (d).....	496
Toccoa River (head of Ocoee River) near Dial (d).....	498
South Chickamauga Creek at Graysville (cm).....	499
Mud Creek:	
West Chickamauga Creek (continuation of Mud Creek) near Lakeview (cm).....	500
Lookout Creek:	
Lookout Creek near New England (d).....	501
Lakes in Tennessee River basin.....	502
DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES	
Crest-stage partial-record stations.....	504
Peak discharge at miscellaneous sites.....	514

GROUND-WATER WELLS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED

GROUND-WATER LEVELS

	Page
CHARLTON COUNTY	
Well 304943082213701, Local number 27E004.....	521
CHATHAM COUNTY	
Well 315950081161201, Local number 35P094.....	522
Well 320021081124801, Local number 36Q020.....	523
Well 320122080510204, Local number 39Q003.....	524
Well 320202080541201, Local number 38Q002.....	525
Well 320530081085001, Local number 36Q008.....	526
COOK COUNTY	
Well 310813083260301, Local number 18H016.....	527
DECATUR COUNTY	
Well 305736084355801, Local number 09F520.....	528
DOUGHERTY COUNTY	
Well 313532084203501, Local number 11L002.....	529
Well 313554084062601, Local number 13L002.....	530
Well 313748084002901, Local number 13L003.....	531
FULTON COUNTY	
Well 334207084254801, Local number 10DD02.....	532
GLYNN COUNTY	
Well 311007081301702, Local number 33H133.....	533
LAURENS COUNTY	
Well 322652083033001, Local number 21T001.....	534
LIBERTY COUNTY	
Well 314343081251901, Local number 34M054.....	535
Well 315214081235301, Local number 34N089.....	536
LONG COUNTY	
Well 313845081361701, Local number 33M004.....	537
LOWNDES COUNTY	
Well 304949083165301, Local number 19E009.....	538
MCINTOSH COUNTY	
Well 313823081154201, Local number 35M013.....	539
MILLER COUNTY	
Well 310651084404501, Local number 08G001.....	540
RANDOLPH COUNTY	
Well 314602084473701, Local number 07N001.....	541
SPAULDING COUNTY	
Well 331507084171801, Local number 11AA01.....	542
WAYNE COUNTY	
Well 313253081433502, Local number 32L015.....	543
Well 313701081543501, Local number 30L003.....	544
WORTH COUNTY	
Well 313146083491601, Local number 15L020.....	545

PRECIPITATION STATION, BY COUNTY, FOR WHICH RECORD IS PUBLISHED

PRECIPITATION-QUALITY RECORD

	Page
TIFT COUNTY	
Tifton-ARS NADP/NTN station near Tifton.....	546

INTRODUCTION

Water resources data for the 1990 water year for Georgia consists of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; ground-water levels; and precipitation quality. This report contains discharge records of 117 gaging stations; stage for 28 gaging stations; stage and contents for 18 lakes and reservoirs; water quality for 128 continuing-record stations; peak stage and discharge only for 93 crest-stage partial-record stations and 8 miscellaneous sites; water levels of 25 observation wells; and water quality for 1 precipitation-quality site. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Georgia.

Records of discharge and stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological water-supply papers entitled, "Surface-Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperature, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from the U.S. Geological Survey, Books and Open-File Reports, Federal Center, Building 810, Box 25424, Denver, CO 80225.

For water years 1961 through 1970, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis prior to the two 5-year series water-supply papers which cover this period. The data contained in the water-supply papers are considered the official record. Water-quality records for water years 1964 through 1970 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1971 water year, water data for streamflow, water quality, and ground water are published in official Survey reports on a State-boundary basis. These official Survey reports carry 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 GA-90-1." 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 Chief at the address given on the back of the title page or by telex phone (404) 986-6860.

COOPERATION

The U.S. Geological Survey and organizations of the State of Georgia have had cooperative agreements for the systematic collection of streamflow records since 1896, and for water-quality records since 1937. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Georgia Department of Natural Resources, Joe D. Tanner, Commissioner
Georgia Department of Transportation, Hal Rives, Commissioner
Bibb County
Glynn County
Gwinnett County
City of Albany
City of Brunswick
City of Covington
City of Helena
City of Moultrie
City of Thomaston
City of Thomasville
City of Valdosta
Albany Water, Gas and Light Commission
Clayton County Water Authority
Macon-Bibb County Water and Sewerage Authority

Assistance in the form of funds and/or services was given by the following Federal agencies:

U.S. Army Corps of Engineers
U.S. Department of Agriculture
Agricultural Research Service
Tennessee Valley Authority
U.S. Department of Commerce
National Weather Service
National Oceanic and Atmospheric Administration

The following organizations aided in collecting records:

Georgia Power Company
Oglethorpe Power Company
Crisp County Power Commission
Alabama Power Company

SUMMARY OF HYDROLOGIC CONDITIONS

Streamflow

Runoff for the 1990 water year varied substantially across the State. For unregulated streams having more than 10 years of streamflow record, the ratio of runoff during the 1990 water year to long-term runoff ranged from a little more than 0.3 at Suwannee River near Fargo, in southeastern Georgia; to almost 2.1 at Two Run Creek near Kingston, in the northwestern part of the State. The runoff ratio for a large number of streams in Georgia ranged from 1.2 to 1.6. In the southern part of the State, the runoff ratio for most streamflow stations was from 0.7 to 1.0, and the runoff ratio for stations in northwestern Georgia generally was 1.7 or greater.

Except for April, monthly mean runoff across the northern part of the State generally was above normal from October through May; ranging from an average of about 110 percent of normal for May to almost 400 percent of normal for October. In this area, monthly mean flows for April and June through September were below, but generally near, normal. August was the only month in which monthly mean flow averaged as much as 30 percent below normal. In central Georgia, monthly mean flows were at or above normal for the first six months of the year. The monthly mean flows averaged about 270 percent of normal for October, and about normal for March. For the remaining six months, monthly mean flows averaged near 50 percent of normal, and showed little variability; ranging from 55 percent of normal in May to about 40 percent of normal in July. Monthly mean runoff across the southern part of the State ranged from slightly below normal to well above normal for October through February, and was substantially below normal for the remainder of the year. The monthly mean flows were the highest in January, averaging about 230 percent of normal, and lowest in August and September, with monthly means averaging only 10 percent of normal. March and April had monthly means averaging about 60 and 40 percent of normal, respectively, and were the only months in which monthly means exceeded 25 percent of normal from March through September. Figure 1 shows monthly and yearly mean discharges for the 1990 water year at three representative long-term gaging stations, and the median of monthly and yearly mean discharges for 1951-80.

Heavy rains over most of the State in early October seemed to remove the threat of drought. However, following the heavy rains in the early part of the water year, east-central and much of southern Georgia were characterized for the remainder of the year by a general lack of rainfall, and near mid-year, once again experienced drought conditions. By mid-summer, severe drought conditions developed in the east-central, southeastern and southwestern parts of the State. Several long-term stations, which gage much of the flow from east-central and southeastern Georgia, experienced minimum daily flows with recurrence intervals ranging from 20 to more than 50 years. At two of these stations, minimum flows for the period of record were equaled, and at five others, new period of record minimums were established. Two long-term stations in the southwestern part of the State experienced minimum daily flows with recurrence intervals greater than 50 years. Across the northern part of the State, most gaging stations generally had minimum flows with recurrence intervals that exceeded 2 years.

The early October rainfall was heaviest in north-central Georgia, and was the first of three storms that produced substantial flooding in the northern part of the State during the 1990 water year. The other two storms occurred in February and March, exactly one month apart. The mid-February flooding generally was limited to the northwestern part of the State, but the mid-March flood was much more widespread, covering much of the northern half of the State. The most severe flooding, resulting from the March storm, generally was confined to west-central Georgia, north and east of the Columbus area.

The October rainfall, though widespread and quite heavy across much of north Georgia, produced flood peaks at long-term gaging stations with recurrence intervals that generally were 10 years or less because of dry antecedent conditions. Two notable exceptions were the Oconee River near Penfield, where the October flood peak had a recurrence interval greater than 25 years; and Broad River near Bell, with 59 years of record, where the peak discharge was a 50-year flood event.

The February storm produced heavy rainfall over north-central and northwestern Georgia on February 15 and 16. The rainfall totals generally were 4 to 5 inches (in.), but were much greater in some localized areas. Examples are Chatsworth, in the north-central part of the State, where 8 in. of rainfall occurred, and Summerville in northwestern Georgia, where more than 11 in. of rainfall were recorded. These heavy rains resulted in severe flooding over much of this part of the State, with peak discharge recurrence intervals of 50 years or greater occurring throughout the area. The peak discharge of 36,800 cubic feet per second (ft^3/s) at the Conasauga River at Tilton gaging station, with a drainage area of 687 square miles (mi^2), had a recurrence interval that exceeded 50 years, and is believed to be the second highest peak flow since 1834. The Chattooga River at Summerville station, with a drainage area of 193 mi^2 , had a peak discharge of 30,100 ft^3/s . This peak discharge had a recurrence interval of about 100 years and was the highest in 53 years of record. In the vicinities of Chatsworth and Summerville, the ratio of the peak discharge to the 100-year discharge for many sites, with drainage areas of 100 mi^2 or less, ranged from 1.0 to more than 2.0. Examples are Harrisburg Creek near Hawkins, with a drainage area of 13.3 mi^2 and Holly Creek near Chatsworth, with a drainage area of 64 mi^2 , where peak flows were 1.6 and 2.1 times the 100-year discharges, respectively.

During the March storm, rain began to fall in west-central Georgia on the evening of the 15th and by early morning on the 17th, more than 8 in. of rain had fallen at Columbus. Heavy rains from this storm were widespread, extending well to the north and east of Columbus, and produced moderate flooding over much of the northern half of the State. The most severe flooding occurred in west-central Georgia near Columbus.

In much of the State outside the Columbus area, the recurrence interval of the March flood generally was 10 years or less, with 10 years being the most common recurrence interval. An exception was the upper Ocmulgee River basin north and west of Macon where the flood generally had recurrence intervals equal to or greater than 25 years. Just outside the area that received 8 in. of rainfall, recurrence intervals were in the 25- to 50-year range. Flooding was most severe within the area that received 8 in. of rainfall, where the peak discharge for most stations exceeded that of the 100-year flood. The ratio of the March flood-peak discharge to the 100-year discharge was greater than 3.0 at several stations. The most notable peak discharge occurred at the Upatoi Creek near Columbus gaging station, which gages an area of 342 mi^2 . At this site, the peak discharge of 46,300 ft^3/s was approximately 2.7 times the previous maximum discharge for 22 years of record, and 6.5 times the 100-year discharge. At another gaging station in west-central Georgia, Flint River near Culloden, which gages an area of 1,850 mi^2 , the peak discharge of 80,000 ft^3/s had a recurrence interval of 50 years, and was the second highest peak discharge in more than 75 years.

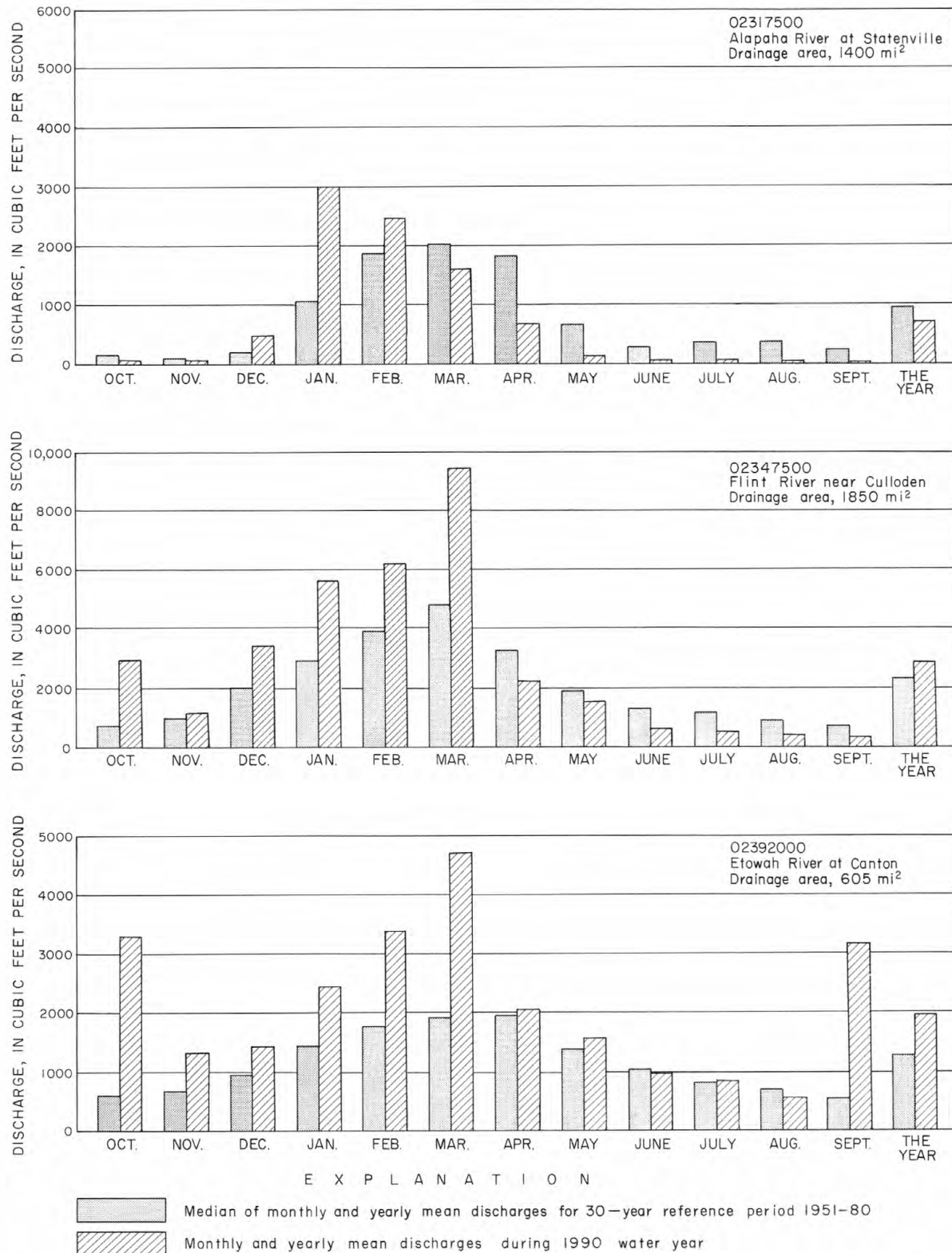


Figure 1.—Comparison of discharge at three representative long-term gaging stations during 1990 water year with median discharge for 30-year reference period, 1951-80.

WATER RESOURCES DATA – GEORGIA, 1990

Water Quality

Water-quality profiles of the Chattahoochee River

Specific conductance, total inorganic nitrogen, and total phosphorus in water samples collected along a 450-mile reach of the Chattahoochee River during the 1990 water year are compared to similar data from water years 1976-89 in figure 2. The 1990 data bars show the maximum, median, and minimum values, and the 1976-89 data bars show the 90th percentile, median, and 10th percentile values.

Station 02331600 (A, fig. 2) is in the headwaters of the Chattahoochee River drainage area upstream from Lake Sidney Lanier. Both historic and 1990 median values for specific conductance, and median concentrations for total inorganic nitrogen, and total phosphorus at this site are low, and are representative of surface-water quality in the Blue Ridge physiographic province of northeastern Georgia. However, median total inorganic nitrogen and total phosphorus concentrations for the 1990 water year are somewhat higher than median values for the 1976-89 water years, indicating some increase in nutrient concentrations in the upper Chattahoochee River. Increased total inorganic nitrogen and total phosphorus concentrations in this reach of the river may be a response to recreational development in Helen, Ga., upstream from site 02331600 (A, fig. 2).

The downstream cyclic patterns of constituent concentrations between stations 02336502 (B, fig. 2) and 02344040 (H, fig. 2) (both historic and 1990 water year data) show the combined effects of urban use, increasing drainage area, and impoundment on the quality of the Chattahoochee River. Increases in median specific conductance values and median total inorganic nitrogen and total phosphorus concentrations between stations 02331600 (A, fig. 2) and 02337170 (C, fig. 2) may be attributed to discharge from waste-treatment facilities in the Atlanta metropolitan area. The concentrations of total inorganic nitrogen and total phosphorus downstream from metropolitan Atlanta notably were lower in 1990 than during the 1976-89 historical reference period. The lower concentrations in 1990 probably were the result of dilution; the average streamflow was approximately 50 percent higher for the 1990 water year than during the 1976-89 historical reference period.

Median specific conductance values and median total inorganic nitrogen concentrations along the Chattahoochee River were highest at station 02338500 (E, fig. 2) and decreased downstream. Median total phosphorus concentrations were highest at station 02337170 (C, fig. 2) and decreased downstream. Downstream decreases in specific conductance, total inorganic nitrogen, and total phosphorus may be attributed to (1) dilution by increased streamflow resulting from increased drainage area (no major waste-water discharges are located in this reach), (2) uptake of nitrogen and phosphorus by biota in the Chattahoochee River and West Point Lake, between stations 02338500 (E, fig. 2) and 02339500 (G, fig. 2), and (3) settling of organic matter containing phosphorus in West Point Lake.

Median total phosphorus concentrations in the reach between stations 02336502 (B, fig. 2) and 02338500 (E, fig. 2) were much lower during the 1990 water year than during water years 1976-89. Some of this decrease in total phosphorus may be the result of differences in streamflow, as mentioned earlier, but the decrease also may be caused, in part, by the statewide ban on phosphate detergents effective in the spring of 1990.

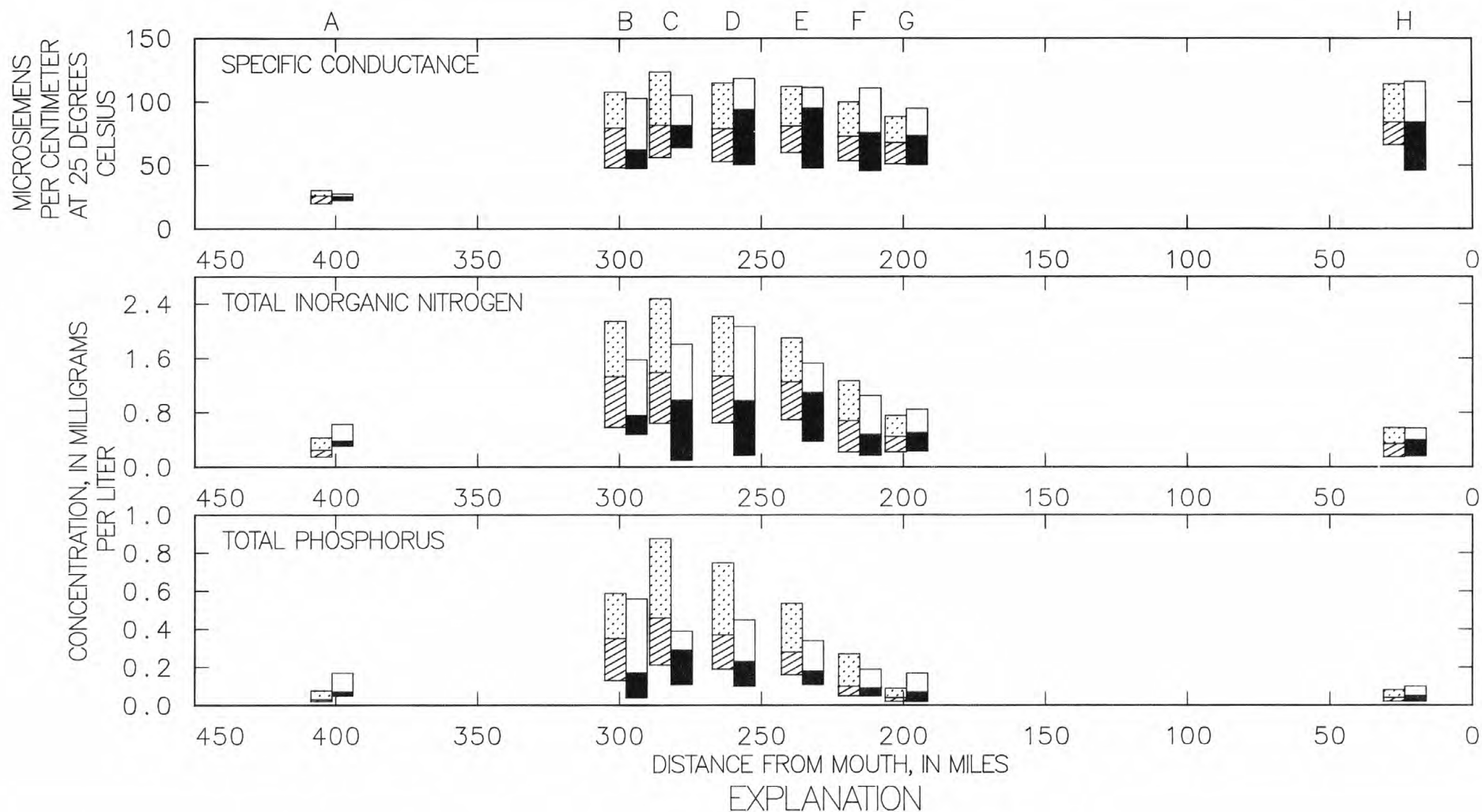
Water-quality profiles of the Ocmulgee and Altamaha Rivers

River-reach profiles of the Ocmulgee and Altamaha Rivers (fig. 3) show the effects of waste-water discharge on river quality. Municipal waste-water discharges to the Ocmulgee River between stations 02212950 (B, fig. 3) and 02213700 (C, fig. 3) (Macon metropolitan area) may have contributed to increased total inorganic nitrogen and total phosphorus concentrations observed at stations 02213700 (C, fig. 2) and 02214265 (D, fig. 3). The general decreases in specific conductance values and total inorganic nitrogen and total phosphorus concentrations downstream from station 02213700 (C, fig. 3) probably are the result of dilution by streamflow, and uptake of nutrients by biota along the Ocmulgee and Altamaha Rivers. Median total phosphorus concentrations in the Ocmulgee River reach downstream from Macon (stations 02213700 (C, fig. 3) and 02214265 (D, fig. 3)) were much lower during the 1990 water year than during water years 1976-89. The reduction in total phosphorus in the Ocmulgee River also may be caused, in part, by the Statewide ban on phosphate detergents effective in the spring of 1990.

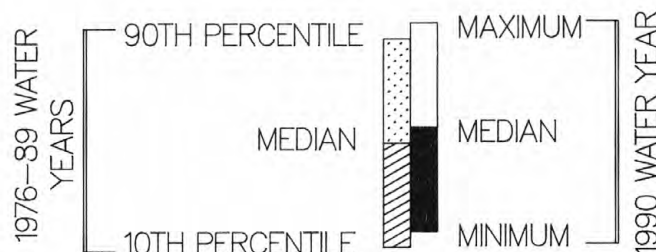
Ground Water

Mean ground-water levels for 25 observation wells throughout Georgia ranged from 2.2 feet (ft) lower to 3.9 ft higher in the 1990 water year than in the 1989 water year. In northern Georgia, mean water levels in the crystalline rock aquifers were from 1.8 to 1.9 ft higher in 1990 than in 1989. Along the coast, mean water levels generally were lower in the Floridan aquifer system and higher in the shallow water-table aquifer in the 1990 water year than in the 1989 water year. Near Savannah, mean water levels in the Floridan aquifer system were from 0.3 foot (ft) to 2.0 ft lower, and record lows were recorded in three wells in mid-July. The mean water level in the shallow water-table aquifer in Savannah was 0.9 ft higher in 1990 than in 1989. In the Riceboro, Jesup, and Okefenokee Swamp areas, mean water levels in the Floridan aquifer system were from 0.7 ft to 1.6 ft lower, and record lows were recorded in seven wells in late September. In the Brunswick area, mean water levels in the Floridan aquifer system were 0.8 ft lower in 1990 than in 1989. In the east-central and south-central parts of the State, mean water levels in the Floridan aquifer system were from 1.2 ft higher to 2.2 ft lower in 1990 than in 1989, and record lows were recorded in three wells in August and September of 1990. In the southwestern part of the State, mean water levels in the Floridan aquifer system were from 1.9 to 3.9 ft higher in 1990 than during 1989; however, a record low water level was recorded in one well in late September. Mean water levels in the Clayton aquifer of southwestern Georgia were from 0.4 ft higher to 1.6 ft lower than in 1989.

Additional information concerning ground-water-level fluctuations in the State can be found in U.S. Geological Survey Open-File Reports entitled, "Ground-water conditions in Georgia, 1989", which includes data for calendar year 1989, and "Ground-water conditions in Georgia, 1990", which includes data for calendar year 1990.



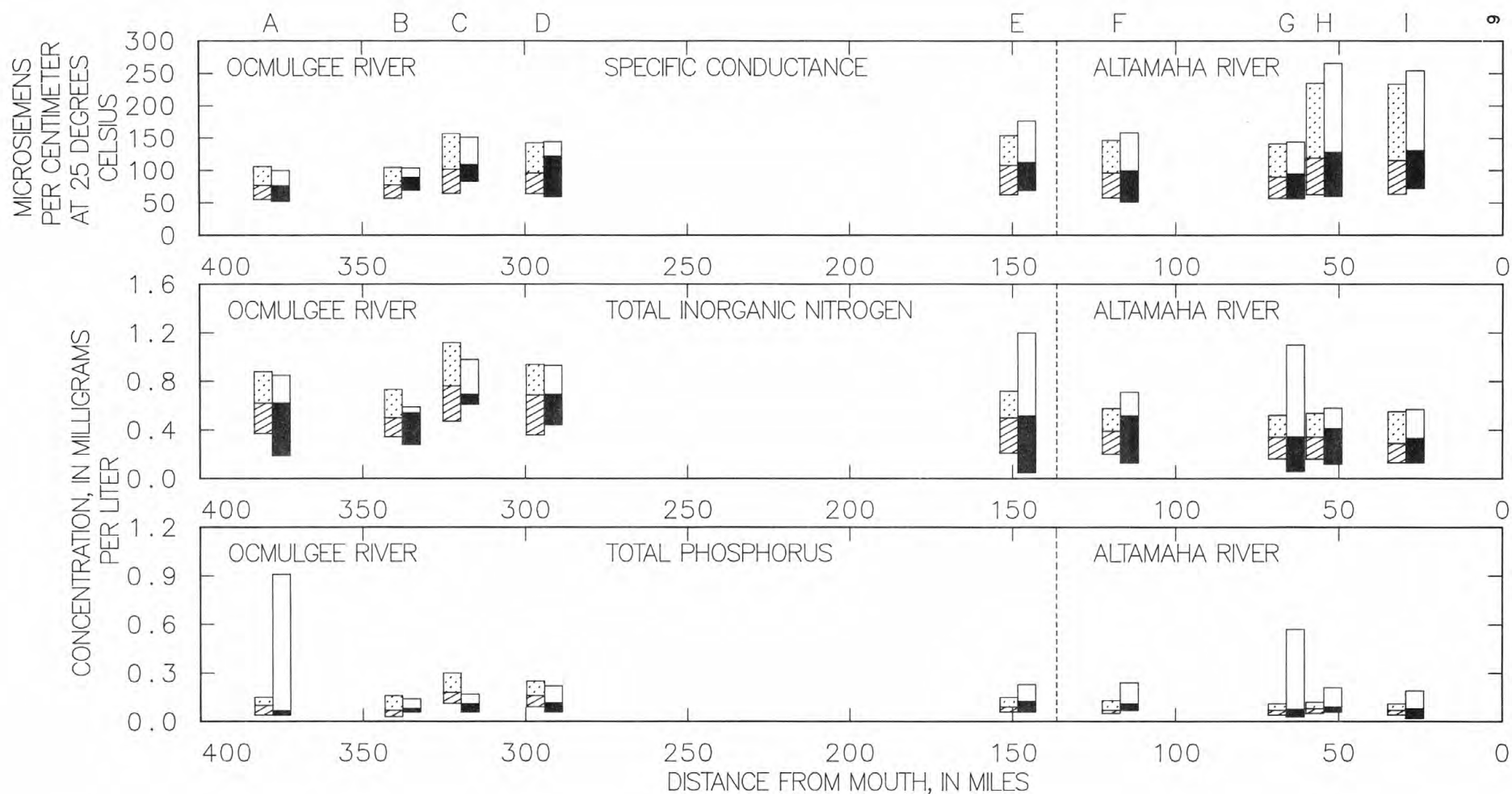
NOTE: 90 PERCENT OF ALL SAMPLES COLLECTED HAVE CONSTITUENT VALUES LESS THAN THE 90TH PERCENTILE, 50 PERCENT LESS THAN THE MEDIAN, AND 10 PERCENT LESS THAN THE 10TH PERCENTILE



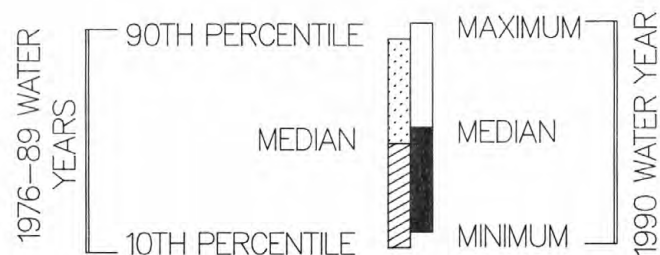
STATION IDENTIFICATION NUMBERS

A 02331600	E 02338500
B 02336502	F 02338720
C 02337170	G 02339500
D 02338000	H 02344040

Figure 2.—River—reach profiles of specific conductance, total inorganic nitrogen, and total phosphorus for the Chattahoochee River.



NOTE: 90 PERCENT OF ALL SAMPLES COLLECTED HAVE CONSTITUENT VALUES LESS THAN THE 90TH PERCENTILE, 50 PERCENT LESS THAN THE MEDIAN, AND 10 PERCENT LESS THAN THE 10TH PERCENTILE



STATION IDENTIFICATION NUMBERS

A 02210500	F 02225000
B 02212950	G 02225990
C 02213700	H 02226010
D 02214265	I 02226160
E 02215500	

Figure 3.—River—reach profiles of specific conductance, total inorganic nitrogen, and total phosphorus for the Ocmulgee and Altamaha Rivers.

Water Use

Millions of gallons of water are withdrawn each year from Georgia's available resources for a variety of uses. Since 1977, the Georgia Water-Use Program, a joint project between the U.S. Geological Survey and the Georgia Department of Natural Resources, Environmental Protection Division, Georgia Geologic Survey, has focused on the use of these withdrawals. The primary purpose of the project is to collect and compile information on principal water users in the State. The water-use information, compiled by various Federal, State, and local agencies, is combined into a centralized data base, known as the Georgia Water Use Data System (GWUDS). The GWUDS data base contains permitted and non-permitted water-use information on public-supply, industrial, commercial, domestic, thermoelectric, and hydroelectric use. Withdrawals are estimated for irrigation and livestock each year.

Georgia Law requires a permit for all municipal, industrial and other non-agricultural water users withdrawing more than 100,000 gallons per day. These water users also are required to report monthly water withdrawals each year to the Environmental Protection Division, Water Resources Management Branch (WRMB). The WRMB is responsible for the issuance of permits and the enforcement of reporting withdrawals.

Total permitted withdrawal for public-supply, industrial, and thermoelectric use in Georgia was reported at 6,212 million gallons per day (Mgal/d) in water year 1990. Figure 4 shows the permitted amount for each of these three categories, and figure 5 shows the distribution of each permitted withdrawal category by county. The 273 permitted public suppliers used about 855 Mgal/d, with 74 percent of the water used for this purpose obtained from surface-water sources. Permitted industrial withdrawal was about 647 Mgal/d, with the largest uses for manufacturing paper, kaolin mining and mineral processing, textile manufacturing, and chemical production. During water year 1990, 17 thermoelectric power plants withdrew about 4,710 Mgal/d, representing 76 percent of the total permitted withdrawal.

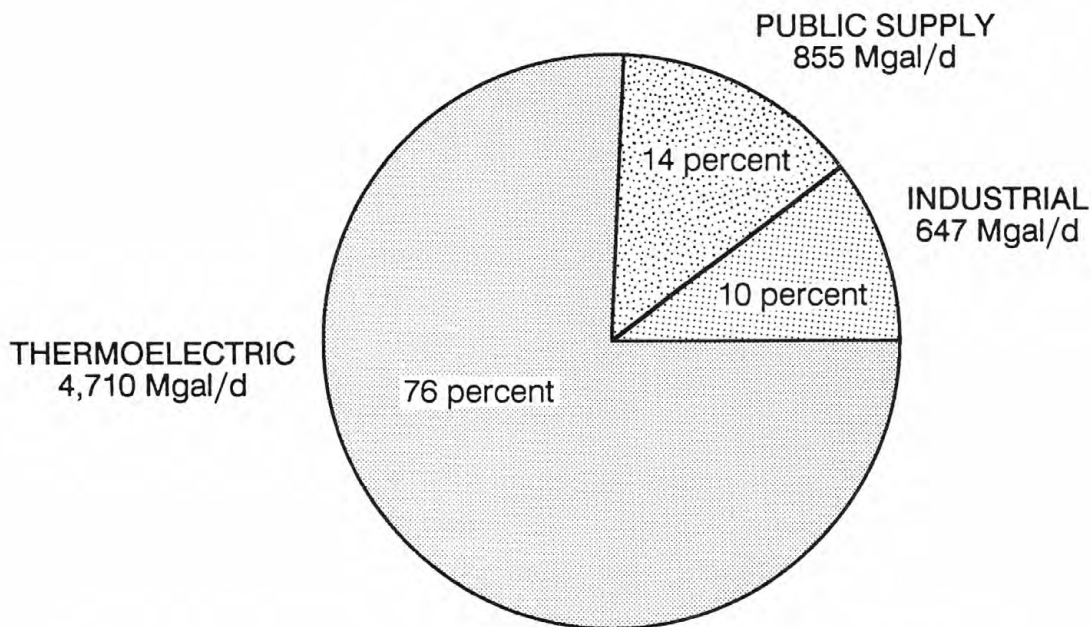


Figure 4.--Permitted water withdrawal for water year 1990, by use category.

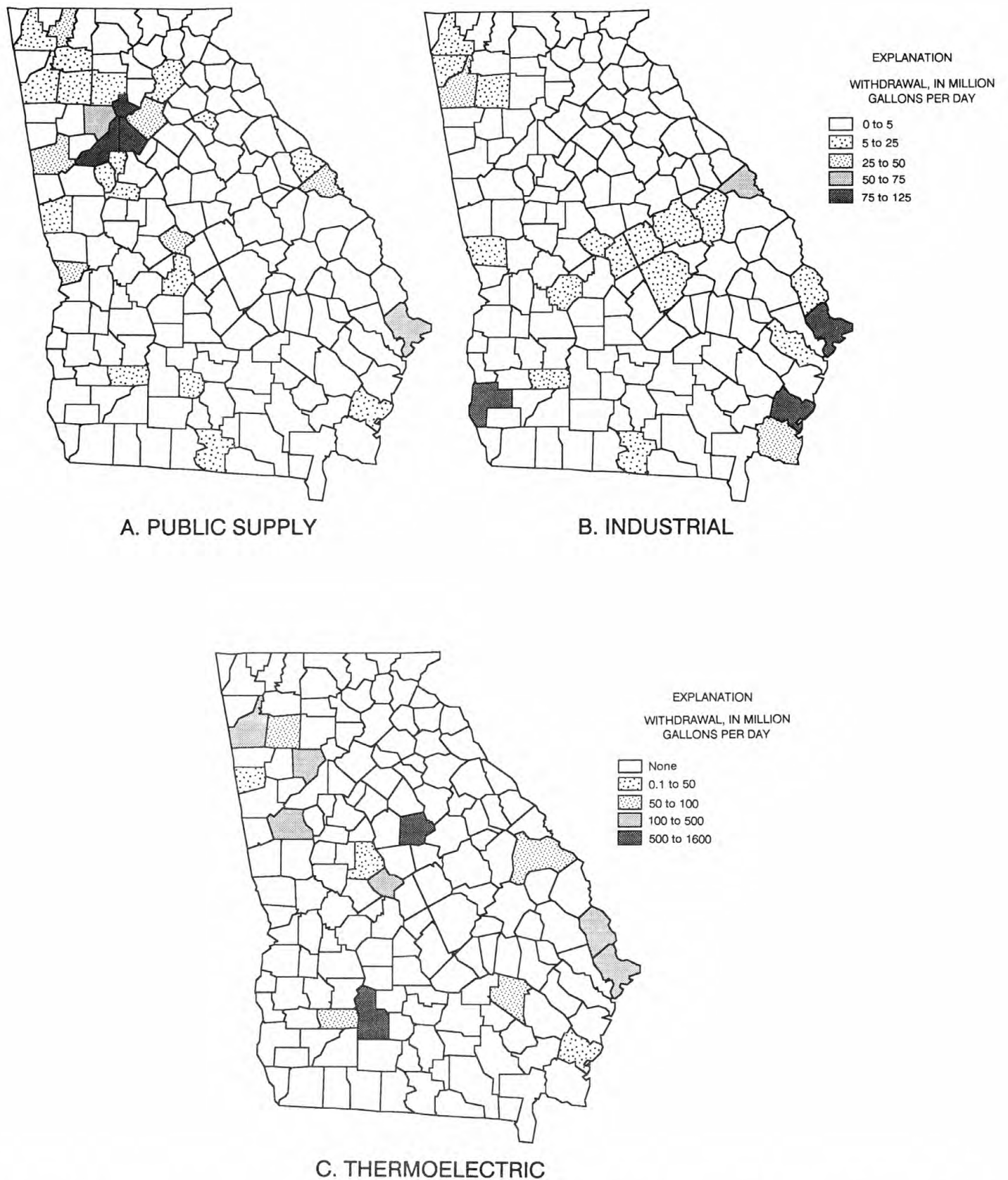


Figure 5.--Permitted water withdrawal for water year by county; (a) public supply, (b) industrial, (c) thermoelectric.

WATER RESOURCES DATA -- GEORGIA, 1990

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 57 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 the activities of man.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in national or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are to (1) obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis and reporting such that the data may be used for, (2) describe the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detect changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) provide a nationally consistent data base useful for water-quality assessment and hydrologic research.

National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the spatial and temporal variability of the composition of atmospheric deposition which includes snow, rain, dust particles, aerosols, and gases. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP). The NADP was initiated by the North Central Region of the State Agricultural Experiment Stations (U.S. Department of Agriculture) to address the problem of atmospheric deposition and its effects on agriculture, forest, rangelands, and fresh-water streams and lakes.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF RECORDS

The surface-water and ground-water records published in this report are for the 1990 water year that began on October 1, 1989, and ended September 30, 1990. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and contents data for lakes and reservoirs, water-quality data for surface water, ground-water-level data, and precipitation-quality data. The locations of the stations and wells where the data were collected are shown in figures 7-10. 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 in this report, whether streamsite, well, or other site, is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The system 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 surface-water stations and the "latitude-longitude" system is used for wells and other off-stream sites.

Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation show in 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 number for each station, such as 02351890, which appears just to the left of the station name includes the two-digit Part number "02" plus the downstream-order number "351890", which can be from six to 12 digits. Most of the station-identification numbers in this report are eight digits; however, up to 14 digit numbers are permissible.

WATER RESOURCES DATA -- GEORGIA, 1990

Latitude-Longitude System

The identification numbers for wells and other off-stream sites, such as rain gages, 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 as shown in figure 6. This site-identification number, once assigned, is a pure number, and has no location 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.

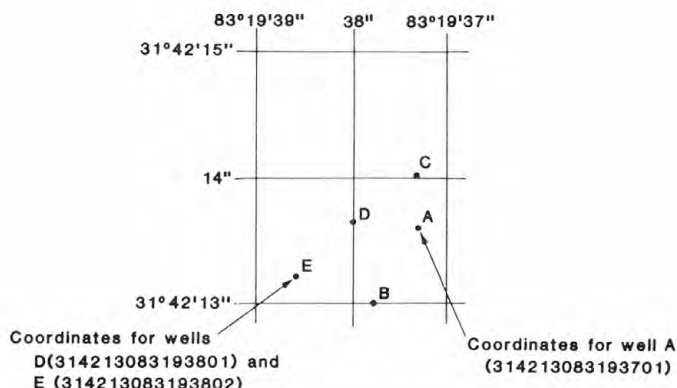


Figure 6.--System for numbering wells and other off-stream sites (latitude and longitude).

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of stage or discharge are those obtained using a continuous or specified time-interval 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. Occasionally, other parameters such as tainter gate openings and stream velocity will also be needed to compute discharges. Stations for which daily mean discharges or gage heights are published 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 peak discharge at selected sites or of measurements from specific studies, such as low-flow seepage studies, may be considered as partial records and these are presented under the appropriate heading. Locations of all complete-record and crest-stage partial-record stations for which data are given in this report are shown in figures 7 and 8.

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 relations between stage and discharge. These data, together with supplemental information, as weather records, are used to compute daily discharges.

Continuous records of stage are obtained with devices that record stage values at selected time intervals or with analog recorders that trace continuous graphs of stage. Measurements of discharge are made with current meters using methods adapted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapter A6.

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 is also 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 relations are 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 relations are affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

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. 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 and following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. 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."

Computation of records of lake or reservoir contents requires a stage-contents relation which can be obtained from surveys, curves, or tables defining this relationship. The application of stage to the stage-contents curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-contents relation changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relation.

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 stage. Comments that follow 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 at the time of determination of drainage area varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps and funds 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 does not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items.

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

AVERAGE DISCHARGE.--The discharge value given is the arithmetic mean of the water-year mean discharges. It is computed only for stations having at least 5 water years of complete record, and only water years of complete record are included in the computation. It is not computed for stations where diversions, storage, or other water-use practices cause the value to be meaningless. If water developments significantly altering flow at a station are put into use after the station has been in operation for a period of years, a new average is computed as soon as 5 water years of record have accumulated following the development.

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

EXTREMES OUTSIDE THE 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.

WATER RESOURCES DATA – GEORGIA, 1990

EXTREMES FOR CURRENT YEAR.—Extremes given here are similar to those for the period of record, except the peak discharge listing may include secondary peaks. For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this heading. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears below the table of peak data.

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 obtain the record from published data reports may wish to contact the District office to determine if the published records were revised after the station was discontinued. Data obtained from computer files for discontinued stations will be current since these files are updated with appropriate revisions at the time revisions are made.

Manuscript information for lake or reservoir stations differs slightly from that for stream and stage stations. A paragraph describing the dam, beginning storage date, if known, and pertinent contents and elevation information is included in the description. Normally there is no "REMARKS" section. "EXTREMES" sections are presented only for those reservoirs where daily or more frequent pool elevations are available.

The daily table for stream-gaging stations gives mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. 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 are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years. At some stations monthly and/or yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

The daily table of gage-height stations gives mean gage-height for each day. In the monthly summary, the line headed "MEAN" gives the average gage height during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily gage heights, respectively, for the month.

Data for reservoirs are presented following the continuous-station data for the basin in which they are located. Monthend elevations, contents, and monthly and yearly change in contents are presented in tabular form following the reservoir station description.

Data collected at partial-record stations follow the information for continuous-record sites. If collected, 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 data contained in the partial-record station tables are often supplemented by information gathered at miscellaneous sites which are neither continuous record nor partial-record stations. This information is presented in tables similar to those for the partial-record stations and the table headings explain the data which are shown.

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, measurement 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 the true; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned, are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to the nearest whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures for values 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, and 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.

WATER RESOURCES DATA -- GEORGIA, 1990

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 are on file in the Georgia District office. 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 District office.

The National Water Data Exchange (NAWDEx), U.S. Geological Survey, Reston, VA 22092, indexes the water data available from more than 400 organizations, and serves as a focal point to help those in need of water data to determine what information is available. Information and assistance on how to use this system can be obtained from the Georgia District office.

Records of Surface-Water Quality

Records of surface-water quality are usually obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of Records

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

A careful distinction needs to be made between "continuing records", as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figure 9.

On-Site Measurements and Sample Collection

A primary concern of the water-quality data acquisition efforts of the U.S. Geological Survey is how well the data collected represent on-site water-quality conditions. Measurements of unstable variables such as water temperature, pH, and dissolved oxygen are made on site when samples are taken to assure that the reported readings accurately represent the water-quality at the time of sampling. Standard Geological Survey procedures for the collection, treatment, and, if necessary, shipment of samples prior to laboratory analysis are also followed to assure that the constituents for which these samples are analyzed have changed minimally from their on-site values. Documentation of these representative sampling procedures is given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; and Book 5, Chaps. A1, A3, and A4. These references are listed at the conclusion of the introductory section of this report. Supplemental information to that found in the listed references may be obtained from the U.S. Geological Survey, District office.

One sample can adequately define 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 (NASQAN) program are obtained from at least several verticals. Whether samples collected at other sites 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.

Water Temperature

Water temperatures are measured at the water-quality stations, and are also obtained at the time of discharge measurements for water-discharge stations. At stations where recording instruments are used, maximum and minimum temperatures for each day are published. Daily-mean temperatures for these stations and water temperatures measured at the time of water-discharge measurements are on file in the District office.

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 discharge.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples are usually obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section. Although data collected periodically may represent conditions only at the time of sampling, data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of a 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.

WATER RESOURCES DATA – GEORGIA, 1990

Laboratory Measurements

Samples for indicator bacteria are analyzed locally. Samples for the National Stream Quality Accounting Network, the Hydrologic Bench-Mark Network (see definitions), and several long-term trend stations are analyzed in the Geological Survey laboratory in Arvada, Co. All sediment samples are analyzed by the Alabama District Sediment Laboratory or the Pennsylvania District Sediment Laboratory. Georgia Environmental Protection Division (EPD) network samples are analyzed by the Laboratory Services Section, Georgia Department of Natural Resources, Environmental Protection Division, and this is so stated in the "Remarks" section of the station description.

Data Presentation

Water-quality records collected at a surface-water daily-record station are published immediately following that record, regardless of the sampling frequency. Station number and name are the same for both records. If no daily surface-water record is available, continuing water-quality record is published with its own station number and name in the regular downstream-order sequence, while data for partial-record stations and miscellaneous sites appear in separate tables following tables of discharge at partial-record stations and miscellaneous sites. Here each partial-record station and miscellaneous site is published with its own station number and name in the regular downstream-order sequence and without descriptive statements.

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 constituents measured daily. Tables of chemical, physical, biological, and radiochemical data obtained at a frequency less than daily are presented first. In tables where both field and laboratory measurements of the same parameter are published (pH, specific conductance, and alkalinity in this report), the laboratory determinations represent the quality of the sample at the time of analysis. Laboratory values for parameters measured in the field generally will be comparable to the field values for these parameters. Differences between the field and laboratory values represent a summation of (1) actual changes in the sample between the time of collection and the time of analysis, (2) errors in precision associated with instrument operation, and (3) errors in accuracy inherent in the instruments themselves. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

If the location is identical to that of the discharge-gaging station, the LOCATION and the DRAINAGE AREA statements are not repeated in the descriptive headings. The following information, as appropriate, is provided with each continuing 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 constituents measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the constituents individually.

EXTREMES.--Maximums and minimums are given only for constituents measured daily or more frequently. None are given for constituents 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 water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

Remark Codes

The remark codes that may appear with the water-quality data in this report are as follows:

PRINTED OUTPUT

REMARK

E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (Organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
&	Biological organism estimated as dominant.

Records of Ground-Water Levels

Water-level data from national and State networks of observation wells are given in this report. These data are intended to provide a sampling and historical record of water-level changes in the State's most important aquifers. Locations of the observation wells in this report are shown in figure 10.

WATER RESOURCES DATA – GEORGIA, 1990

Although, in this report, records of water levels are presented for fewer than 30 wells, records are obtained through cooperative efforts of many Federal, State, and local agencies for about 1,400 wells throughout Georgia and are placed in computer storage. Each spring, the Georgia District and the Georgia Department of Natural Resources, Environmental Protection Division, Geologic Survey Branch, publish a report for the previous calendar year entitled "Ground-Water Data for Georgia, 1990". This report contains hydrographs of recorder wells, detailed maps showing water levels from the previous year, and other useful items. Information about the availability of the data in the water-level file may be obtained from the District Chief, Georgia District.

Data Collection and Computation

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

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number, based on the "U.S. Geological Survey Index to Topographic Maps of Georgia." Each 7.5-minute topographic quadrangle in the State has been given a number and letter designation beginning at the southwest corner of the State. Numbers increase eastward and letters progress alphabetically northward. The letters "I" and "O" are omitted. Quadrangles in the northern part of the State are designated by double letters. Wells inventoried in each quadrangle are numbered consecutively beginning with 1.

Water-level records are obtained from the graph or punched tape of a water-stage recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (LSD). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description.

Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The station description precedes the tabular data and is presented through use of descriptive headings. The comments to follow clarify information presented under the various headings.

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

AQUIFER.—This entry designates by name (if a name exists) the aquifer(s) open to the well.

WELL CHARACTERISTICS.—This entry describes the well in terms of depth, diameter, casing depth and/or screened interval method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

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

REMARKS.—This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers. Periods of missing or estimated record are described in this section.

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

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

A table of water levels follows the station description for each well. Water levels are reported in feet above or below land-surface datum. Missing records are indicated by dashes in place of the water level. The highest, lowest, and mean water levels of the water years are shown on lines below the table.

Records of Precipitation Quality

The precipitation-quality data presented in this report represent analyses of time-composite samples, most often for a collection period of one week. This is in contrast to most of the published surface-water quality data which represent samples taken of specific times.

On-Site Measurements and Sample Collection

Precipitation samples are collected with wet/dry collectors or bulk samplers. The wet/dry collector is the preferred precipitation sampler and consists of a bucket which is open only during periods of wet (rainfall, snow, etc.) precipitation. During dry periods the sample bucket is covered, thus excluding dry-fall precipitation from the sample. Bulk samplers are less desirable because they collect both wet- and dry-fall precipitation. However, they are useful as backups during times when the wet/dry samplers fail to properly function. Bulk samplers consist of a catchment area, such as a funnel, where the sample is collected and then fed through a delivery tube to the sample receptacle. The tubing is looped in order to minimize sample evaporation. If necessary, wet/dry samplers can also be used as makeshift bulk samplers by leaving them in the open position for the collection period.

WATER RESOURCES DATA – GEORGIA, 1990

Accurate measurements of precipitation quantity also are made at each station. One of two types of recording gages is normally used. National Trends Network (NTN) stations are equipped with weighing-bucket rain gages, which graphically record rainfall as well as count rainfall events. The other commonly-used recording gage consists of a rainfall catchment pipe and a float-driven digital recorder which periodically records the water-level in the pipe.

Time-composite wet- and bulk-precipitation samples are collected and brought back to the laboratory and weighed. Rainfall quantity is estimated from the sample weight. A temperature-density correction can be applied if desired but normally this correction results in a very small change in the estimated quantity of rainfall. An estimation of the sampler efficiency is made by computing the ratio of rainfall amount collected in the sample bucket to that measured by the recording rain gage. This collector efficiency ratio is an important indicator of possible collector malfunction. For example, a ratio substantially less than one indicates that the wet/dry collector was not opening properly and thus, excluding rainfall.

After weighing the sample, a small portion is removed for measurement of pH, specific conductance, and, in some instances, titratable acidity. The pH and specific conductance are both determined electrometrically according to methods described in the National Atmospheric Deposition Program "NADP Instruction Manual: Site Operation". The remainder of the sample is then used for laboratory chemical analyses. This portion of the sample is shipped to the laboratory raw and untreated. In the case of NTN operation, the original bucket is resealed and mailed to the Illinois State Water Survey Central Analytical Laboratory (CAL) for analysis. In all other instances, sample portions are preserved, treated, and analyzed according to specific project requirements.

Data presentation

Records of precipitation quality are published following the "Records of ground-water" section of this report. As with records of daily water discharge and surface-water quality, precipitation-quality records consist of two parts, a station header and a data table. The station header contains the descriptive information pertinent to the establishment, location, and operation of the site. Records are presented alphabetically by county and, within each county, by latitude, longitude, and sequence number. As with ground-water wells, the primary site identifier used for precipitation-quality stations in this report is the 15-digit composite of these three numbers. The following text presents a clarification of the subheadings which follow the station identification number and station name.

LOCATION.--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 precipitation-quality records for the station. Periods of record are presented separately for each type of sample collected at the site (in this report, either wet precipitation, bulk precipitation, or both).

INSTRUMENTATION.--In this section, an abbreviated-style listing of the data-recording and sample-collection equipment permanently housed at the site is presented.

REMARKS.--This section is reserved for comments pertaining to unusual or extraordinary circumstances or to qualifying information which must be used to accurately interpret the data presented for the site. More general comments which may pertain to several or all of the sites are presented in the "EXPLANATION OF RECORDS" section in the introductory part of the report.

ACCESS TO WATSTORE DATA

The National WATER Data STORage and RETrieval System (WATSTORE) was established for the management and use of water data collected through the activities of the U.S. Geological Survey and to provide more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Va.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charge can be obtained locally from each of the Water Resources Division's district offices (see the address given on the back of title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, VA 22092

DEFINITION OF TERMS

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Adenosine triphosphate (ATP) is an organic, high-energy phosphate-bond containing compound used by living cells as an energy source for biochemical reactions. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic unicellular, colonial, or multicellular plants which contain chlorophyll and other pigments.

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 a measure of the proton-accepting capacity of a solution. This property is also referred to as its "acid-neutralizing capacity", and is equal to the sum concentration of all proton acceptors in the solution or the total strong base concentration. Total alkalinity is operationally defined as the alkalinity neutralized by titration with a strong acid to the carbonic acid equivalence point.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

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

Total coliform bacteria are a group of bacteria used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 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. **Fecal coliform bacteria** are bacteria that are present in the intestines 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 which produce blue colonies within 24 hours when incubated at 44.5°C ± 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.

Fecal streptococcal bacteria are bacteria also found in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 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.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

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 micro-organisms, such as bacteria.

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

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. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m³), and periphyton and benthic organisms in grams per square meter (g/m²).

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and periphyton, 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.

Organic mass or volatile mass of the living substance is the difference between dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many plankton organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 2,447 cubic meters, approximately 1.9835 acre-feet, or about 646,000 gallons.

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 natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments in most plant tissue. Chlorophyll a and b are the two most common pigments in plants.

Collector efficiency is a measure of the quantity of wet precipitation (usually rain) collected by a precipitation collector relative to that which actually fell from the atmosphere. Operationally, this measure is taken as the ratio of rain volume in the precipitation collector to rain volume measured by a recording rain gage.

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

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.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure 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 (ft^3/s , or CFS) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic feet per second per square mile [$(\text{ft}^3/\text{s})/\text{mi}^2$ or CFSM] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

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

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved is that material in a water sample which passes through a $0.45 \mu\text{m}$ membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved-solids concentration of water 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 of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river from upstream specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

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

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent concentration of calcium carbonate (CaCO_3).

Hydrologic Bench-Mark Network is a network of 57 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 the activities of man.

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

Land-surface datum (lsd) is a reference plane that is approximately at land surface at a well from which depth or height to water surface is measured.

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

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.

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 ($\mu\text{g/g}$, $\mu\text{g/g}$) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per liter ($\mu\text{g/L}$, $\mu\text{g/L}$) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of solution. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (mg/L , mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of solution. 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.

National Geodetic Vertical Datum of 1929 (NGVD of 1929 or NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in national or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the spatial and temporal variability of the composition of atmospheric deposition which includes snow, rain, dust particles, aerosols, and gases. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

Organism is any living entity.

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

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

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific variable. The codes used in WATSTORE are mostly the same as those used in the U.S. Environment Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) 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 used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
Clay.....	0.00024 - 0.004	Sedimentation
Silt.....	.004 - .062	Sedimentation
Sand.....	.062 - 2.0	Sedimentation or 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 material 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.

WATER RESOURCES DATA – GEORGIA, 1990

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.

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

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

Plankton is the community of suspended, floating, or weakly swimming organism that live in the open water of lakes and rivers.

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.

Blue-green algae 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.

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.

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

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.

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 by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [$\text{mg C}/(\text{m}^2\text{-time})$] for periphyton and macrophytes and [$\text{mg C}/(\text{m}^3\text{-time})$] for phytoplankton are units for expressing primary productivity. They define 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 hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [$\text{mg O}_2/(\text{m}^2\text{-time})$] for periphyton and macrophytes and [$\text{mg O}_2/(\text{m}^3\text{-time})$] for phytoplankton are the units for expressing primary productivity. They define 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 hour or day, depending on the incubation period.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Recoverable from bottom material is the amount of a given constituent 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 only 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.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it 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 factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and close to it. In this report bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

Percent composition 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, mass, or volume.

Suspended sediment is the sediment that, at any given time, is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

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).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a 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.

Suspended-sediment load is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

Total-sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry mass or volume, that passes a section during a given time. **Total-sediment load** or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

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. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in a solvent (such as water).

Specific conductance is a measure of the ability of a water solution to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same stream with changes in the composition of the water.

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

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.

Natural substrate refers to any naturally occurring emerged or submersed solid surface, such as a rock or tree, upon which an organism lives.

Artificial substrate is a device which 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 hardboard) for benthic organism collection, and plexiglass strips for periphyton.

Surface area of a lake is that area outlined on the latest U.S. Geological Survey topographic map as the boundary of the lake and measured by a planimeter. In localities not covered by topographic maps, the areas are computed the best maps available at the time planimeted. All areas shown are those for the stage when the planimeted map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that 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 associated with the material retained on 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45 µm 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 would be 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 analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentration of the constituent.

WATER RESOURCES DATA -- GEORGIA, 1990

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 μm membrane filter. 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 determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determination of (1) dissolved and (2) total concentration of the constituent.

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.....Animalia
Phylum.....Arthropoda
Class.....Insecta
Order.....Ephemeroptera
Family.....Ephemeridae
Genus.....*Hexagenia*
Species.....*Hexagenia limbata*

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings 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 that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 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) is the quantity of substance in solution or suspension that passes a stream section during a 24-hour period.

Total is the total amount of a given constituent in a representative water-suspended sediment 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" indicates that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. This term needs to be qualified, such as "total sediment discharge," and so on.

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment 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, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Tritium Network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

Water year in Geological Survey 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, 1980, is called the "1980 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, thoroughly mixed, in a reservoir containing all the water passing a given location during the water year.

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

PUBLICATIONS OF TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

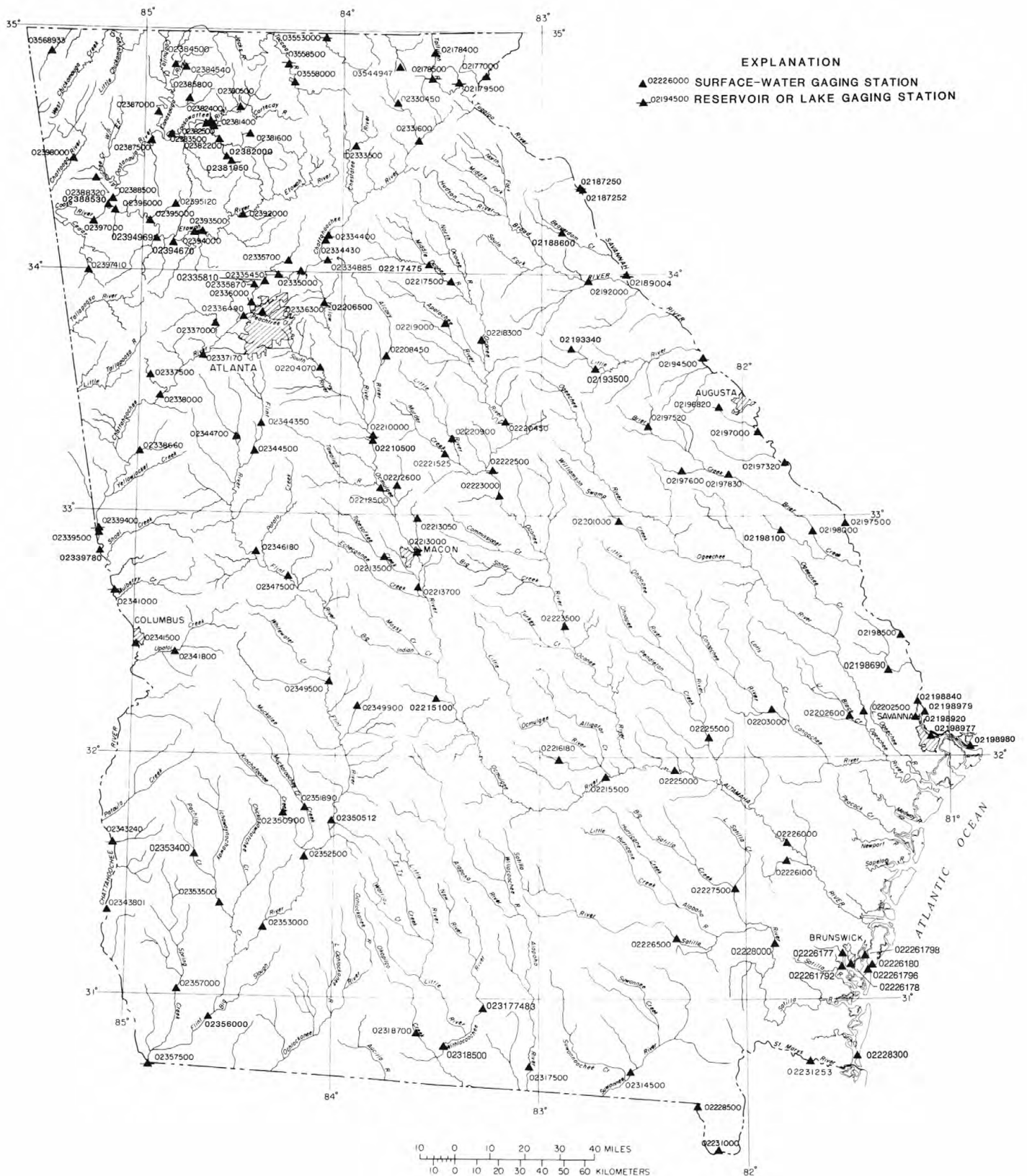
The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of 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. Geological Survey, Books and Open-File Reports, Federal Center, Building 41, Box 25425, Denver, CO 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by 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 "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 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, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 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, Chapter D1. 1974. 116 pages.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F.P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W.S. Keys and L.M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 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, Chapter F1. 1989. 97 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M.A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M.A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G.L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H.F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R.W. Carter and Jacob Dividian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. *Measurement of time of travel and dispersion in streams by dye tracing*, by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.
- 3-A10. *Discharge ratings at gaging stations*, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.
- 3-A11. *Measurement of discharge by moving-boat method*, by G.F. Smoot and C.E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-A12. *Fluorometric procedures for dye tracing*, by J.F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A12. 1986. 41 pages.
- 3-A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. *Use of flumes in measuring discharge*, by F.A. Kilpatrick and V.R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.
- 3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.
- 3-A18. *Determination of stream reaeration coefficients by use of tracers*, by F.A. Kilpatrick, R.E. Rathbun, N. Yotsukura, G.W. Parker, and L.L. DeLong: USGS--TWRI Book 3, Chapter A18. 1989. 52 pages.
- 3-A19. *Levels of streamflow gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 27 pages.

WATER RESOURCES DATA -- GEORGIA, 1990

- 3-B1. *Aquifer-test design, observation, and data analysis*, by R.W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programmed text for self-instruction*, by G.D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J.E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-B4. *Regression modeling of ground-water flow*, by R. L. Cooley and R. L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.
- 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, Chapter B5. 1987. 15 pages.
- 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, Chapter B6. 1987. 28 pages.
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- 3-C2. *Field methods for measurement of fluvial sediment*, by H.P. Guy and V.W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
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- 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, Chapter C3. 1981. 110 pages.
- 8-A1. *Methods of measuring water levels in deep wells*, by M.S. Garber and F.C. Koopman: USGS TWRI Book 8, Chapter A1. 1968. 23 pages.
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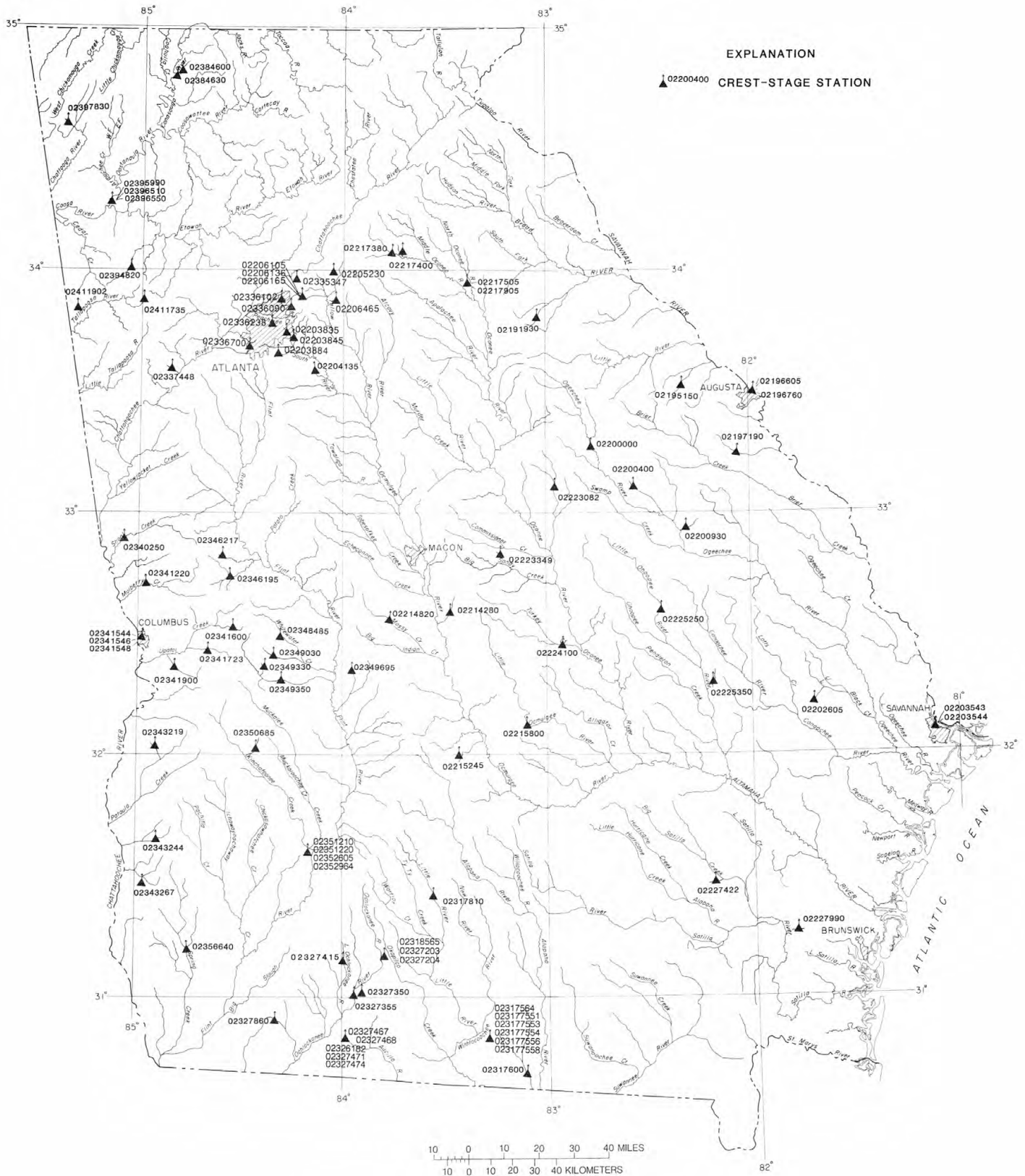
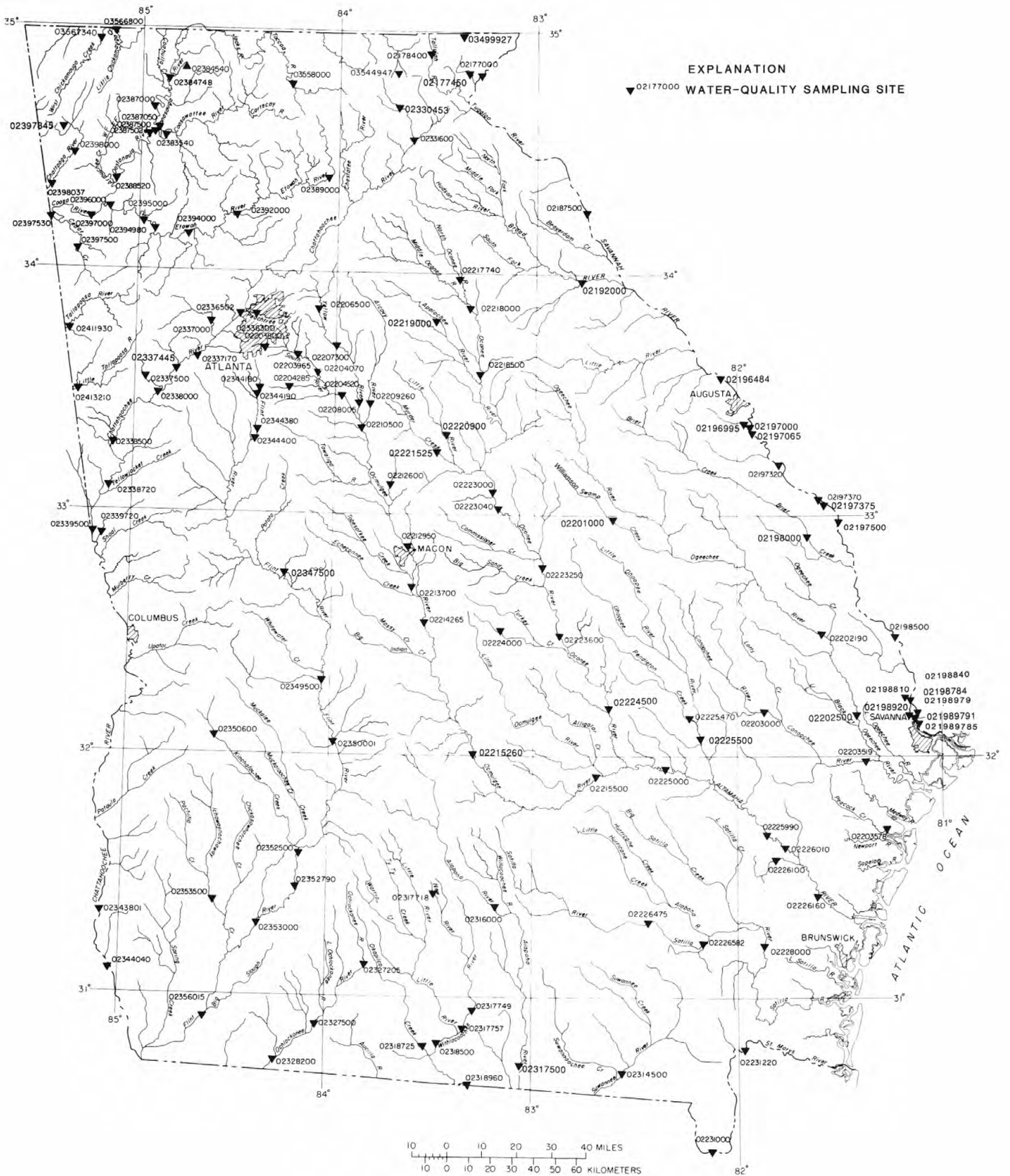
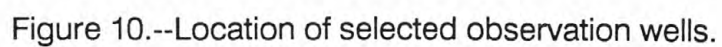


Figure 8.--Location of crest stage partial-record stations.





HYDROLOGIC-DATA STATION RECORDS

SURFACE-WATER RECORDS

Remark Codes

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

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (Organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
&	Biological organism estimated as dominant.

HYDROLOGIC-DATA STATION RECORDS

SAVANNAH RIVER BASIN

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.

LOCATION.--Lat 34°48'50", long 83°18'22", Oconee County, S.C.-Rabun County, Ga., Hydrologic Unit 03060102, on left bank 150 ft downstream from bridge on U.S. Highway 76, 2.8 mi upstream from Stekoa Creek, 7 mi southeast of Clayton, 9 mi downstream from War Woman Creek, and 9 mi upstream from confluence with Tallulah River.

DRAINAGE AREA.--207 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1907 to June 1908, October 1939 to current year. Monthly discharge only for May 1907 to June 1908, published in WSP 1303.

REVISED RECORDS.--WSP 1383: 1940-41, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,165.6 ft above National Geodetic Vertical Datum of 1929. May 1907 to June 1908, nonrecording gage at site 400 ft upstream at different datum.

REMARKS.--Estimated daily discharges: Feb. 17-28. Records good.

AVERAGE DISCHARGE.--51 years (water years 1940-90), 649 ft³/s, 42.58 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft³/s, Aug. 30, 1940, gage height, 13.8 ft, from rating curve extended above 4,700 ft³/s on basis of slope-area measurements at gage heights 9.9 and 13.2 ft; minimum discharge, 88 ft³/s, Oct. 8, 12, 13, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1830	7,010	5.87	Feb. 16	1445	*11,000	*7.59
Feb. 10	1300	4,400	4.56	Mar. 17	1145	8,370	6.47

Minimum discharge, 191 ft³/s, Sept. 7, 8; gage height, 1.09 ft.

SAVANNAH RIVER BASIN

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5330	568	556	1380	1050	1300	1200	739	533	271	257	248
2	3590	546	540	907	991	1460	1150	711	558	261	257	231
3	2000	538	526	785	963	2280	1100	734	596	252	267	221
4	1560	521	509	841	1370	1730	1060	744	510	245	254	211
5	1340	513	505	974	1300	1500	1030	790	474	240	256	205
6	1190	564	497	955	1120	1390	1010	727	461	232	343	204
7	1080	611	496	908	1060	1310	988	682	451	230	347	195
8	996	606	871	1050	969	1330	952	646	439	250	298	204
9	925	675	926	988	969	1520	924	728	428	245	315	411
10	883	585	789	886	3090	1390	947	2110	440	487	380	348
11	845	544	697	812	1980	1290	1070	1210	418	291	290	263
12	806	526	1040	777	1550	1220	929	951	400	261	260	368
13	774	510	1300	724	1370	1170	890	870	382	340	250	513
14	742	502	964	697	1270	1130	868	791	377	1080	287	590
15	714	580	837	679	1200	1100	862	734	372	849	261	655
16	705	1340	764	664	4790	1880	831	696	365	469	315	415
17	899	847	703	645	3420	5730	807	690	376	356	255	325
18	863	701	673	649	2330	2940	786	671	364	345	255	286
19	1040	638	665	627	2240	2160	767	621	347	447	241	265
20	805	605	647	683	1930	1890	755	706	331	403	251	255
21	742	581	618	1590	1740	1720	754	672	322	387	246	244
22	704	601	595	1020	1970	1610	744	609	317	375	276	365
23	672	1070	552	868	2110	1520	732	585	311	341	333	329
24	651	783	522	836	1770	1460	712	575	301	310	288	253
25	631	696	593	1410	1580	1400	691	558	293	383	538	236
26	611	660	565	1360	1490	1370	675	548	289	332	403	227
27	597	630	538	1080	1410	1340	657	553	287	300	312	218
28	585	618	528	971	1350	1260	867	591	322	286	270	212
29	575	588	520	1170	---	1260	1080	753	314	296	244	212
30	567	568	554	1530	---	1250	808	582	285	329	247	208
31	584	---	1110	1170	---	1310	---	538	---	279	296	---
TOTAL	34006	19315	21200	29636	48382	51220	26646	23115	11663	11172	9092	8917
MEAN	1097	644	684	956	1728	1652	888	746	389	360	293	297
MAX	5330	1340	1300	1590	4790	5730	1200	2110	596	1080	538	655
MIN	567	502	496	627	963	1100	657	538	285	230	241	195
CFSM	5.30	3.11	3.30	4.62	8.35	7.98	4.29	3.60	1.88	1.74	1.42	1.44
IN.	6.11	3.47	3.81	5.33	8.69	9.20	4.79	4.15	2.10	2.01	1.63	1.60
CAL YR 1989	TOTAL	282305	MEAN	773	MAX	5330	MIN	273	CFSM	3.73	IN	50.73
WTR YR 1990	TOTAL	294364	MEAN	806	MAX	5730	MIN	195	CFSM	3.89	IN	52.90

SAVANNAH RIVER BASIN

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 10...	1210	879	13	14	6.6	6.4	12.0	23.0	10.2	98
NOV 15...	0945	544	14	13	6.9	6.4	12.5	15.0	10.0	98
DEC 12...	1120	902	14	13	6.3	6.6	7.0	14.0	13.9	120
JAN 10...	1000	889	14	13	6.8	6.4	7.0	11.5	11.5	99
FEB 14...	1100	1190	13	12	6.4	6.7	9.5	21.0	10.9	99
MAR 14...	1110	1120	13	13	6.8	6.5	14.0	25.0	10.4	105
APR 12...	1150	929	14	13	7.0	6.9	11.0	18.0	11.0	102
MAY 09...	1350	655	14	15	6.8	7.0	15.0	18.0	9.6	99
JUN 13...	0915	379	15	15	6.9	6.8	20.5	22.0	8.7	100
JUL 19...	1220	496	15	14	6.9	7.0	23.0	29.0	8.2	99
AUG 14...	0645	288	--	16	--	6.9	23.0	19.0	8.0	--
SEP 13...	1330	544	16	18	6.7	6.8	22.0	28.0	7.9	94

SAVANNAH RIVER BASIN

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)
OCT 10...	2.0	--	0.9	80	3	20
NOV 15...	1.0	<5	1.6	30	5	1
DEC 12...	5.0	--	1.5	330	5	8
JAN 10...	3.0	<5	0.1	50	3	3
FEB 14...	3.0	9	1.0	80	4	13
MAR 14...	4.0	<5	0.6	230	2	6
APR 12...	3.0	5	--	40	5	5
MAY 09...	2.0	<5	0.6	<20	7	6
JUN 13...	2.0	6	--	--	6	1
JUL 19...	13	--	0.6	170	7	17
AUG 14...	3.0	--	0.4	--	6	3
SEP 13...	27	--	0.7	790	9	27

DATE	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 10...	0.020	<0.030	--	0.20	0.22	0.160	--
NOV 15...	<0.020	<0.030	--	0.10	--	0.080	1.8
DEC 12...	0.060	0.030	--	<0.10	--	0.040	2.0
JAN 10...	0.040	<0.030	--	0.20	0.24	0.070	2.2
FEB 14...	0.040	0.120	0.0	0.10	0.14	0.040	1.0
MAR 14...	0.030	<0.030	--	0.10	0.13	0.120	1.8
APR 12...	0.050	<0.030	--	<0.10	--	0.040	1.7
MAY 09...	<0.020	0.040	0.06	0.10	--	0.050	<1.0
JUN 13...	0.020	<0.030	--	<0.10	--	0.040	4.2
JUL 19...	0.040	<0.030	--	--	--	0.140	2.8
AUG 14...	<0.020	<0.030	--	--	--	0.020	1.8
SEP 13...	0.050	0.060	--	--	--	0.060	4.8

SAVANNAH RIVER BASIN

02177450 STEKOA CREEK BELOW CLAYTON, GA.

LOCATION.--Lat 34°50'07", long 83°20'49", Rabun County, Hydrologic Unit 03060102, at bridge on Wolf Creek Road, 0.9 mi downstream from Chechero Creek, 4.8 mi upstream from mouth, and 5.1 mi southeast of Clayton.

DRAINAGE AREA.--28.5 mi².

PERIOD OF RECORD.--July 1990 to September 1990.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
JUL 19...	1250	60	34	31	7.1	7.0	20.0	28.5	8.3	95
SEP 13...	1250	125	32	32	6.9	6.9	20.5	26.0	8.1	94

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUL 19...	80	0.9	11000	10	84	0.370	<0.030	0.170	5.0
SEP 13...	78	2.1	54000	7	278	0.370	<0.030	0.180	4.7

SAVANNAH RIVER BASIN

02178400 TALLULAH RIVER NEAR CLAYTON, GA.
(Hydrologic Bench-Mark Station)

LOCATION.--Lat 34°53'25", long 83°31'50", Rabun County, Hydrologic Unit 03060102, on right bank 100 ft downstream from Plum Orchard Road bridge, 120 ft downstream from Persimmon Creek, 8 mi upstream from Burton Dam, and 10.3 mi west of Clayton.
DRAINAGE AREA.--56.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,868.93 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--26 years, 188 ft³/s, 45.19 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,500 ft³/s, May 28, 1973, gage height, 12.00 ft; minimum discharge, 27 ft³/s, Oct. 8, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1445	2,200	6.19	Mar. 16	1100	1,260	4.87
Feb. 10	0415	1,590	5.37	Mar. 17	0730	4,420	8.58
Feb. 16	0930	*4,900	*9.00				

Minimum discharge, 47 ft³/s, Sept. 7-9.

SAVANNAH RIVER BASIN

02178400 TALLULAH RIVER NEAR CLAYTON, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1560	112	146	329	276	373	309	204	136	69	69	65
2	803	110	142	241	271	451	304	198	137	69	69	61
3	430	108	137	211	282	550	290	193	159	66	70	58
4	314	107	134	289	515	445	279	319	139	64	84	55
5	257	105	132	281	402	398	269	282	130	63	105	54
6	225	142	129	287	340	368	271	240	125	61	81	52
7	204	134	130	270	323	344	260	217	121	60	71	51
8	187	158	283	291	291	389	247	201	117	65	67	50
9	174	176	247	267	312	452	240	282	114	64	68	122
10	165	146	222	244	1030	425	278	425	113	70	67	71
11	158	133	199	226	586	383	275	291	107	67	62	60
12	151	126	349	211	448	354	247	250	105	82	59	66
13	144	120	336	196	384	334	236	232	102	104	69	98
14	140	119	266	188	346	310	231	212	101	470	75	171
15	135	182	235	182	324	302	230	199	102	340	61	148
16	134	503	209	175	2830	943	218	188	99	145	58	94
17	207	252	194	171	1210	2800	212	201	98	116	56	77
18	160	203	183	177	811	1120	204	179	95	108	55	69
19	150	178	183	166	725	775	198	171	91	129	53	64
20	140	165	173	281	584	637	197	222	88	144	58	64
21	135	154	165	526	523	555	199	198	86	131	71	61
22	130	225	157	320	719	500	192	185	85	113	80	125
23	126	311	143	268	652	460	191	176	83	113	83	78
24	124	227	148	274	555	429	184	168	81	97	84	67
25	121	200	166	519	487	402	180	161	79	92	122	63
26	118	186	163	432	443	392	176	156	78	86	70	60
27	116	174	156	343	413	366	172	155	76	81	63	57
28	115	170	143	300	389	346	278	165	76	78	59	56
29	113	159	127	375	---	345	246	155	74	78	56	55
30	112	151	161	345	---	349	213	143	71	75	94	54
31	119	---	359	301	---	339	---	139	---	70	89	---
TOTAL	7167	5236	5917	8686	16471	16636	7026	6507	3068	3370	2228	2226
MEAN	231	175	191	280	588	537	234	210	102	109	71.9	74.2
MAX	1560	503	359	526	2830	2800	309	425	159	470	122	171
MIN	112	105	127	166	271	302	172	139	71	60	53	50
CFSM	4.09	3.10	3.38	4.96	10.4	9.50	4.14	3.72	1.81	1.93	1.27	1.31
IN.	4.72	3.45	3.90	5.72	10.84	10.95	4.63	4.28	2.02	2.22	1.47	1.47
CAL YR 1989	TOTAL	83091	MEAN	228	MAX	1750	MIN	88	CFSM	4.04	IN	54.71
WTR YR 1990	TOTAL	84538	MEAN	232	MAX	2830	MIN	50	CFSM	4.11	IN	55.66

SAVANNAH RIVER BASIN

02178400 TALLULAH RIVER NEAR CLAYTON, GA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1967 to September 1968, December 1969 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: September 1964 to September 1979.

REMARKS.--Laboratory analyses with the analyzing agency code 80020 are provided by the U.S. Geological Survey. Laboratory analyses with the analyzing agency code 81341 are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--Maximum, 28.0°C July 28, 1966; minimum 0.0°C on several days during most years.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
MAR 21...	1150	80020	552	12	13	6.9	7.1	7.0	--	10.8	95
JUL 19...	1020	81341	117	--	20	7.0	6.9	18.5	28.0	9.2	--
30...	1100	80020	77	20	22	7.2	8.2	18.0	--	8.1	91
SEP 13...	1100	81341	127	23	22	6.8	6.8	19.5	24.0	7.9	92

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARB DISSOLV LAB AS CACO3 (MG/L)
MAR 21...	80020	3	1.0	--	--	3	0
JUL 19...	81341	--	8.0	0.9	790	--	--
30...	80020	3	1.5	--	--	6	0
SEP 13...	81341	--	26	0.7	1700	--	--

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3
MAR 21...	80020	0.85	0.31	0.90	33	0.2	0.40	--
JUL 19...	81341	--	--	--	--	--	--	9
30...	80020	1.5	0.50	1.5	33	0.3	0.60	--
SEP 13...	81341	--	--	--	--	--	--	8

SAVANNAH RIVER BASIN

02178400 TALLULAH RIVER NEAR CLAYTON, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	ALKA- LITY WAT.DIS FET LAB CACO3 (MG/L)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
MAR 21...	80020	5.0	<1.0	0.80	<0.10	6.9	14	--	--	--
JUL 30...	80020	9.0	<1.0	0.90	0.20	10	11	--	--	--

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)
MAR 21...	80020	<0.100	<0.100	<0.010	0.010	--	--
JUL 19...	81341	0.120	--	<0.030	--	--	--
30...	80020	<0.100	0.100	0.010	<0.010	0.19	--
SEP 13...	81341	0.100	--	<0.030	--	--	--

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
MAR 21...	80020	0.20	<0.20	--	--	0.010	<0.010	0.6
JUL 19...	81341	--	--	--	--	0.110	--	2.8
30...	80020	0.20	<0.20	--	--	<0.010	0.020	1.2
SEP 13...	81341	--	--	--	--	0.060	--	2.8

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
MAR 21...	80020	<10	1	<1	1.0	<1	1	14
JUL 30...	80020	20	<1	<1	<1.0	<1	5	47

SAVANNAH RIVER BASIN

02178400 TALLULAH RIVER NEAR CLAYTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAR 21...	80020	3	<1	3	<0.10	<0.1	<1	4
JUL 30...	80020	1	<1	7	<0.10	0.1	<2	4

SAVANNAH RIVER BASIN

02187252 SAVANNAH RIVER BELOW HARTWELL LAKE NEAR HARTWELL, GA.

LOCATION.--Lat 34°21'15", long 82°48'55", Anderson County, S.C., Hydrologic Unit 03060103, on left bank at Highway 29, 6.8 mi east of Hartwell, and at mile 304.5.

DRAINAGE AREA.--2,090 mi², approximately.

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder and data collection platform. Elevation of gage is 480 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: Dec. 18 to Jan. 23, Feb. 13-16, Mar. 7-10, 19, 22-31, Apr. 1-12, 17, 18, 20, 25, 26, May 27-31, June 1-12, 21-27, July 15-19, 21-31, Aug. 1-9, 23, 24, and Sept. 3. Records fair, except those for the periods of estimated daily discharges and those less than 1,000 ft³/s, which are poor. Flow regulated by Lake Burton, Mathis Reservoir, and Hartwell Lake. (See "Lakes and Reservoirs in Savannah River Basin, stations 02188500, 02179500, and 02187250).

AVERAGE DISCHARGE.--6 years, 3,616 ft³/s, 23.50 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,300 ft³/s, Jan. 21, 1985, gage height, 12.63; minimum daily discharge, 63 ft³/s, Nov. 18, 1984, Mar. 16, 23, Dec. 14, 1986, Jan. 4, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 38,200 ft³/s, Jan. 28; gage height, 12.62; minimum daily discharge, 91 ft³/s, Oct. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	981	5510	9540	4810	11500	9010	5410	8650	7640	3470	1380	112
2	8600	5170	1820	4860	3340	9050	8600	8580	740	3960	2440	112
3	7690	5140	1660	4840	3650	6540	8240	8320	953	3520	3820	7250
4	6170	101	7800	4770	12900	7280	8100	8470	5450	3500	3820	3460
5	6080	102	7220	4820	12500	15900	7820	4110	5340	5100	111	744
6	7260	4190	7150	1200	11800	19600	7780	4260	5130	4930	4170	1060
7	3280	4210	7370	900	11200	19200	4240	8770	4880	1120	4990	7250
8	3470	4020	9690	3900	11000	18700	4440	9080	4560	1160	4990	120
9	6250	5390	1780	4910	10800	18700	11700	9180	293	5940	4920	114
10	6030	4200	626	3900	1930	18500	11800	6920	324	8470	534	6950
11	5890	105	10300	3910	1500	17700	11900	10700	5590	4370	128	1080
12	5650	107	10400	3900	15100	19400	11900	5290	4950	4520	127	12200
13	5480	6190	10800	1300	17600	19400	11500	3770	4750	2610	6780	6940
14	2480	6310	11300	800	17300	19300	4000	12300	4640	376	6820	4410
15	2340	6440	11300	6630	17700	19500	4290	9150	4590	182	7810	117
16	8530	6500	2220	6700	17700	19200	12000	12200	254	2090	8620	117
17	7890	7870	2200	6650	7230	14500	17700	15100	293	1910	6940	8130
18	6510	3210	10200	6680	11300	26800	8860	15200	3680	1870	120	8080
19	6090	1380	10200	6720	14700	26500	7900	2670	7060	192	120	8060
20	7930	8850	11200	1200	15700	16600	6740	2760	6850	2490	6380	7020
21	109	8940	10300	850	13500	12000	2600	14600	7680	131	6320	6440
22	110	9180	11000	6090	10900	12700	2750	14500	4170	131	6510	128
23	6020	7520	6180	7070	10300	13200	7760	14500	351	5550	6440	127
24	6030	6020	2310	9920	5100	5100	8000	14400	316	5020	4810	6330
25	5970	978	7920	15100	5390	5450	8380	14200	4600	5020	114	6320
26	5990	1050	10200	7420	9010	14200	8390	1780	4740	4990	112	4600
27	5650	8990	10200	7210	9080	14900	8600	1500	4350	4950	6400	4620
28	98	9050	10200	13600	9110	14700	4150	8100	4690	121	3040	4810
29	91	9640	10300	12700	---	14400	4350	8140	8220	121	113	124
30	6290	10200	1100	12100	---	12100	8640	8100	5670	3850	4370	124
31	5480	---	800	13000	---	5310	---	8030	---	3890	4410	---
TOTAL	156439	156563	225286	188460	298840	465440	238540	273330	122754	95554	117659	116949
MEAN	5046	5219	7267	6079	10670	15010	7951	8817	4092	3082	3795	3898
MAX	8600	10200	11300	15100	17700	26800	17700	15200	8220	8470	8620	12200
MIN	91	101	626	800	1500	5100	2600	1500	254	121	111	112

CAL YR 1989 TOTAL 1236965 MEAN 3389 MAX 11300 MIN 91 MEAN† 4,188 CFSM† 2.00 IN† 27.21
WTR YR 1990 TOTAL 2455814 MEAN 6728 MAX 26800 MIN 91 MEAN† 6,493 CFSM† 3.11 IN† 42.19

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, AND HARTWELL LAKE.

SAVANNAH RIVER BASIN

02187500 SAVANNAH RIVER NEAR IVA, S.C.

LOCATION.--Lat 34°15'20", long 82°44'42", Anderson County, S.C.-Elbert County, Ga., Hydrologic Unit 03060103, at bridge on State Highway 184, 0.5 mi upstream from Little Generostee Creek, 5.8 mi southwest of Iva, and at mile 296.5.

DRAINAGE AREA.--2,231 mi².

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1962 to September 1967, October 1968 to September 1972.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Water-discharge records for the period October, 1949 to September, 1981 are in reports published by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum daily, 28.0°C Aug. 30, 31, 1970; minimum daily, 3.0°C Jan. 31, 1966.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	GAGE HEIGHT (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC 12...	1330	--	36	35	7.0	6.9	12.0	9.0	10.1	96
MAR 14...	0900	23.78	34	32	6.6	6.3	11.0	19.0	12.0	110
JUN 13...	1200	23.65	35	35	7.4	7.5	26.0	29.0	9.1	113
SEP 12...	1240	18.63	37	36	6.9	6.8	26.0	30.0	7.5	94

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
DEC 12...	4.0	1.5	790	10	0.090	<0.030	0.110	2.9	280	48
MAR 14...	3.0	0.6	<20	8	0.120	0.220	0.080	2.1	--	--
JUN 13...	1.0	--	--	10	0.020	<0.030	0.020	4.3	50	14
SEP 12...	3.0	2.0	<20	10	<0.020	<0.030	<0.030	3.4	--	--

SAVANNAH RIVER BASIN

02188600 BEAVERDAM CREEK ABOVE ELBERTON, GA.

LOCATION.--Lat 34°10'07", long 82°53'48", Elbert County, Hydrologic Unit 03060103, at left bank on downstream end of bridge on County Road 310, 200 ft downstream from Little Beavercreek, 3.25 mi east of Dewey Rose, and 4.3 mi northnorthwest of Elberton.

DRAINAGE AREA.--72 mi².

PERIOD OF RECORD.--October 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 530 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharge: Oct. 3. Records good, except those for the period Oct. 3 to Nov. 20, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,100 ft³/s, Oct. 2, 1989, gage height, 14.66 ft; minimum daily discharge 5.0 ft³/s, Oct. 8, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	0130	*4,100	*14.66	Feb. 19	0300	1,970	10.42
Jan. 26	0400	868	7.29	Mar. 17	2000	2,990	12.64
Feb. 17	0700	846	7.07				

Minimum daily discharge, 20 ft³/s, July 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2380	61	61	123	128	137	161	98	69	27	35	41
2	2520	58	60	92	120	152	155	91	67	26	34	35
3	650	58	57	76	112	369	149	85	76	25	34	32
4	478	55	55	71	132	221	143	101	74	25	33	30
5	376	53	54	83	152	174	139	108	65	23	31	28
6	336	55	51	145	117	154	134	92	61	23	32	28
7	313	65	53	148	105	142	138	83	58	23	34	28
8	295	94	169	164	98	142	130	80	61	23	34	27
9	276	74	232	144	116	188	127	83	59	25	34	27
10	234	64	192	108	573	210	129	109	57	23	46	31
11	112	59	155	91	356	192	149	93	52	21	62	85
12	108	57	166	80	227	165	134	82	48	20	49	104
13	116	55	318	71	184	149	123	78	46	22	38	119
14	110	55	183	88	159	140	120	75	48	43	34	129
15	108	67	136	95	146	133	124	72	44	66	32	168
16	102	157	112	64	301	176	116	69	46	50	32	93
17	99	116	94	55	599	2020	111	69	54	41	30	67
18	99	85	87	53	337	1480	106	66	52	50	28	56
19	95	75	89	55	1640	574	103	64	47	58	27	51
20	88	72	89	55	667	466	104	63	43	138	26	49
21	83	69	80	428	444	419	106	75	40	142	25	46
22	81	68	74	217	410	387	104	73	38	74	50	62
23	79	108	68	131	339	361	100	65	39	64	63	59
24	76	98	63	103	228	335	97	62	37	57	62	48
25	73	80	64	447	192	292	94	60	34	51	52	43
26	68	77	64	597	170	189	91	59	33	48	42	41
27	69	75	63	274	157	181	88	57	31	45	37	39
28	67	72	61	211	147	166	96	57	32	41	34	38
29	64	68	59	178	---	167	132	96	32	40	33	37
30	62	63	62	171	---	169	110	90	30	39	31	36
31	62	---	77	145	---	169	---	75	---	37	62	---
TOTAL	9679	2213	3148	4763	8356	10219	3613	2430	1473	1390	1196	1677
MEAN	312	73.8	102	154	298	330	120	78.4	49.1	44.8	38.6	55.9
MAX	2520	157	318	597	1640	2020	161	109	76	142	63	168
MIN	62	53	51	53	98	133	88	57	30	20	25	27
CFSM	4.33	1.03	1.42	2.14	4.14	4.58	1.67	1.09	.68	.62	.54	.78
IN.	5.00	1.14	1.63	2.46	4.32	5.28	1.87	1.26	.76	.72	.62	.87
CAL YR 1989	TOTAL	35022	MEAN	96.0	MAX	2520	MIN	20	CFSM	1.33	IN	18.09
WTR YR 1990	TOTAL	50157	MEAN	137	MAX	2520	MIN	20	CFSM	1.90	IN	25.91

SAVANNAH RIVER BASIN

02192000 BROAD RIVER NEAR BELL, GA.

LOCATION.--Lat 33°58'27", long 82°46'12", Elbert-Wilkes County line, Hydrologic Unit 03060104, at downstream side of main channel pier of bridge on State Highway 17, 0.5 mi downstream from Long Creek, 1 mi south of Bells Crossroads, and 12 mi southeast of Elberton.

DRAINAGE AREA.--1,430 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1926 to September 1932, August 1937 to current year. Monthly discharge only for October 1926, August to September 1932, published in WSP 1303.

REVISED RECORDS.--WSP 1172: 1928-30. WSP 1383: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 357.16 ft above National Geodetic Vertical Datum of 1929. Prior to October 1928, nonrecording

gage at railroad bridge about 1 mi downstream at datum 1.12 ft lower. October 1928 to July 1932, and August 1937 to January 1939, nonrecording gage at present site and datum.

REMARKS.--Estimated daily discharges: Oct. 2-4 and Apr. 3 to May 30. Records good, except those for the period of estimated daily discharges, which are fair. Records of chemical analyses for the 1970-79 water years are in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--59 years (water years 1927-32, 1938-90), 1,770 ft³/s, 16.81 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 79,400 ft³/s, Oct. 2, 1929, gage height, 34.8 ft, from rating curve extend above 30,000 ft³/s on basis of slope-conveyance studies; minimum daily, 96 ft³/s, July 23, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1926, that of Oct. 2, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 14,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	unknown	*56,100	*30.98	Feb. 20	0700	23,600	22.65
Feb. 17	2100	15,600	18.45	Mar. 18	1300	38,200	27.28

Minimum daily discharge, 520 ft³/s, July 8.

SAVANNAH RIVER BASIN

02192000 BROAD RIVER NEAR BELL, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15600	839	985	2580	2240	2330	2540	1600	1100	617	675	2070
2	49800	836	953	2770	2070	2330	2460	1500	1100	596	659	1030
3	42400	846	932	1970	1980	4710	2400	1450	1240	580	655	826
4	18400	845	907	1710	1980	5360	2300	1450	1320	563	659	735
5	4930	825	889	1720	2810	3460	2200	1500	1190	550	657	678
6	3530	817	884	2530	2320	2860	2100	1500	1080	539	687	649
7	2920	879	890	3580	2030	2580	2050	1450	1030	532	792	630
8	2530	1520	2110	4120	1920	2420	2000	1400	1010	520	773	613
9	2130	1520	5540	4150	2310	3330	1950	1350	1030	601	684	594
10	1740	1190	4910	2810	8980	4930	1900	1600	1040	602	1150	582
11	1490	1000	3090	2240	11800	3900	2100	1700	987	566	1120	678
12	1350	920	2790	1950	5570	3170	2400	1550	926	570	912	804
13	1250	888	6340	1740	3440	2750	2100	1450	874	555	747	1820
14	1180	871	4850	1590	2790	2510	1800	1400	855	733	676	1580
15	1140	872	2820	1510	2480	2360	1800	1300	837	1390	642	2740
16	1100	1470	2290	1460	4840	2460	1700	1300	826	1420	636	1810
17	1070	2650	1960	1410	13600	12500	1700	1200	853	960	668	1110
18	1080	1640	1760	1390	11800	34300	1650	1200	883	890	617	880
19	1080	1290	1740	1420	16400	25600	1600	1200	853	909	581	776
20	1060	1140	1830	1390	22000	11000	1600	1150	804	1110	566	722
21	988	1070	1710	3570	10600	4890	1600	1300	761	2040	564	683
22	950	1020	1570	6520	4830	4090	1600	1350	741	1440	759	809
23	931	1360	1430	3220	5000	3640	1600	1300	765	1130	1520	1380
24	915	2210	1300	2400	3950	3290	1550	1150	735	1100	2370	1050
25	900	1570	1290	5390	3230	3020	1500	1100	692	989	1550	812
26	879	1320	1290	11500	2830	2770	1450	1100	670	906	1100	729
27	861	1220	1280	8860	2540	2710	1450	1100	661	832	922	687
28	848	1150	1250	3840	2420	2570	1500	1150	655	775	828	653
29	838	1100	1220	3000	---	2500	1750	1650	646	742	760	631
30	831	1030	1210	2950	---	2590	1700	1600	633	718	704	627
31	830	---	1360	2610	---	2590	---	1210	---	701	1480	---
TOTAL	165551	35908	63380	97900	158760	169520	56050	42260	26797	26176	27113	29388
MEAN	5340	1197	2045	3158	5670	5468	1868	1363	893	844	875	980
MAX	49800	2650	6340	11500	22000	34300	2540	1700	1320	2040	2370	2740
MIN	830	817	884	1390	1920	2330	1450	1100	633	520	564	582
CFSM	3.73	.84	1.43	2.21	3.97	3.82	1.31	.95	.62	.59	.61	.69
IN.	4.31	.93	1.65	2.55	4.13	4.41	1.46	1.10	.70	.68	.71	.76
CAL YR 1989	TOTAL	616430	MEAN	1689	MAX	49800	MIN	444	CFSM	1.18	IN	16.04
WTR YR 1990	TOTAL	898803	MEAN	2462	MAX	49800	MIN	520	CFSM	1.72	IN	23.38

SAVANNAH RIVER BASIN

02192000 BROAD RIVER NEAR BELL, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1969 to May 1979, July 1990 to September 1990.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
JUL 18...	1110	870	53	54	7.3	7.2	26.0	27.5	7.6	94
SEP 12...	1150	720	58	56	7.4	7.3	27.0	29.5	7.3	93

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUL 18...	34	0.8	790	31	0.320	<0.030	0.070	4.7
SEP 12...	37	1.1	110	19	0.350	<0.030	0.060	3.1

SAVANNAH RIVER BASIN

02193340 KETTLE CREEK NEAR WASHINGTON, GA.

LOCATION.--Lat 33°40'57", long 82°51'29", Wilkes County, Hydrologic Unit 03060105, on right bank, 300 ft upstream from County Road 68, 1.35 mi upstream from Little Kettle Creek, and 7.8 mi southwest of Washington.

DRAINAGE AREA.--33.9 mi².

PERIOD OF RECORD.--April 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is 416.06 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 2-3. Records good for discharges greater than or equal to 100 ft³/s; fair for discharges greater than or equal to 10 ft³/s and less than 100 ft³/s; and poor for discharges less than 10 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,150 ft³/s, Oct. 1, 1989, gage height, 17.68 ft, from rating curve extended above 1,300 ft³/s on basis of contracted-opening measurement of peak flow; minimum daily discharge, 0.12 ft³/s, Aug. 28, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0330	*4,150	*17.68	Feb. 16	1815	1,590	10.64
Dec. 12	2100	602	7.14	Feb. 19	0530	2,130	12.30
Feb. 10	1045	1,510	10.39	Mar. 17	1200	2,740	14.04

Minimum daily discharge, 0.28 ft³/s, July 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2170	7.5	8.6	84	21	28	27	13	7.2	1.2	.34	7.1
2	234	7.8	8.3	32	20	35	30	11	13	1.0	.51	3.0
3	69	8.8	8.1	24	19	83	24	10	15	.84	.66	2.2
4	32	7.5	7.9	21	22	43	22	13	11	.75	.62	1.8
5	23	7.4	8.4	20	19	34	20	35	7.2	.74	.65	1.6
6	19	7.7	8.4	126	16	30	20	20	6.5	.70	1.3	1.6
7	16	8.3	11	95	16	27	21	14	5.9	.61	.67	1.2
8	14	8.8	131	282	15	28	18	12	5.4	.55	.64	.98
9	12	9.8	157	69	35	46	17	14	5.3	.48	1.1	.65
10	11	8.0	52	41	478	49	19	26	8.1	.35	24	2.2
11	10	7.4	28	30	109	35	30	15	7.9	.28	7.6	2.2
12	9.9	6.9	154	25	51	31	20	12	4.7	.31	3.5	1.6
13	9.4	6.8	153	21	38	28	18	11	4.1	.84	2.6	1.4
14	9.5	6.9	44	19	32	26	18	9.9	3.9	2.4	2.1	9.0
15	9.3	7.6	31	18	31	25	18	8.7	3.9	1.8	2.3	11
16	8.9	22	26	16	420	40	16	8.2	4.2	1.0	2.2	3.2
17	8.8	10	21	15	177	1170	15	7.9	4.7	.70	1.6	1.7
18	9.6	8.2	20	15	116	136	14	7.7	4.2	.92	1.3	1.4
19	11	7.5	26	15	991	60	14	7.2	3.5	2.2	.96	1.4
20	8.8	7.5	27	14	107	44	14	8.2	2.9	5.3	1.2	2.7
21	8.4	7.9	22	47	59	36	15	19	2.5	2.5	2.1	2.7
22	8.4	8.1	19	29	63	32	15	14	4.1	6.8	6.5	11
23	7.9	21	16	21	63	29	14	12	4.8	6.3	7.2	7.3
24	7.6	11	20	19	45	27	12	10	2.7	2.9	4.1	3.0
25	7.7	9.4	14	98	37	25	12	10	2.2	1.9	2.9	3.0
26	7.4	9.3	14	70	33	24	11	9.4	2.2	1.6	2.6	3.0
27	7.4	8.9	13	33	31	25	10	8.7	2.2	1.1	2.6	2.8
28	7.4	10	13	26	30	22	22	13	1.8	.88	1.7	2.6
29	7.4	14	12	29	---	31	24	11	1.7	.73	1.1	2.8
30	7.4	9.0	12	39	---	33	15	8.7	1.6	.57	1.4	3.1
31	7.7	---	24	25	---	33	---	7.5	---	.38	18	---
TOTAL	2779.9	281.0	1109.7	1418	3094	2315	545	387.1	154.4	48.63	106.05	99.23
MEAN	89.7	9.37	35.8	45.7	111	74.7	18.2	12.5	5.15	1.57	3.42	3.31
MAX	2170	22	157	282	991	1170	30	35	15	6.8	24	11
MIN	7.4	6.8	7.9	14	15	22	10	7.2	1.6	.28	.34	.65
CFSM	2.65	.28	1.06	1.35	3.27	2.20	.54	.37	.15	.05	.10	.10
IN.	3.05	.31	1.22	1.56	3.40	2.54	.60	.42	.17	.05	.12	.11
CAL YR 1989	TOTAL	9000.80	MEAN	24.7	MAX	2170	MIN	2.1	CFSM	.73	IN	9.88
WTR YR 1990	TOTAL	12338.01	MEAN	33.8	MAX	2170	MIN	.28	CFSM	1.00	IN	13.54

SAVANNAH RIVER BASIN

02193500 LITTLE RIVER NEAR WASHINGTON, GA.

LOCATION.--Lat 33°36'40", long 82°44'40", Wilkes-Taliaferro County line, Hydrologic Unit 03060105, on left bank on downstream side of county highway bridge pier, 700 ft downstream from Reedy Creek, 4 mi downstream from Georgia Railroad bridge, 6 mi upstream from Williams Creek, and 9 mi south of Washington.

DRAINAGE AREA.--291 mi².

PERIOD OF RECORD.--October 1949 to September 1970, May 1989 to current year.

REVISED RECORDS.--WSP 1383: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 360 ft (by barometer). October 1, 1949 to June 23, 1971, recording gage at same site and approximately same datum.

REMARKS.--Estimated daily discharges: May 1-16, 1989. Records good, except those for the period of estimated daily discharge, which are fair.

AVERAGE DISCHARGE.--22 years (water years 1950-70, 1990), 257 ft³/s, 11.99 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,500 ft³/s, Mar. 3, 1971, gage height 27.93, datum then in use; minimum, 0.32 ft³/s, Oct. 12-16, 1954.

EXTREMES FOR CURRENT PERIOD.--May 1989 to September 1990: Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1, 1989	2130	*13,000	*27.62	Mar. 18, 1990	0730	5,880	21.36
Feb. 20, 1990	0130	4,740	19.96				

Minimum daily discharge, 6.3 ft³/s, July 12, 1990.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								900	36	49	528	28
2								700	34	45	261	24
3								230	32	44	146	22
4								180	30	263	104	21
5								350	29	724	83	20
6								360	40	168	69	24
7								190	57	103	58	29
8								160	48	77	51	33
9								430	48	64	47	29
10								450	44	56	44	25
11								270	37	48	40	23
12								180	33	42	38	24
13								160	30	37	36	29
14								140	28	36	37	22
15								160	27	37	44	20
16								120	55	41	40	103
17								112	219	67	40	57
18								97	107	179	39	33
19								89	115	118	36	28
20								86	122	578	32	24
21								84	190	600	28	63
22								78	284	341	26	626
23								72	729	185	25	443
24								67	176	130	23	160
25								59	104	104	21	99
26								56	75	86	20	176
27								52	60	75	77	185
28								47	51	65	34	116
29								44	68	56	27	93
30								40	61	50	25	123
31								38	---	163	24	---
TOTAL								6001	2969	4631	2103	2702
MEAN								194	99.0	149	67.8	90.1
MAX								900	729	724	528	626
MIN								38	27	36	20	20
CFSM								.67	.34	.51	.23	.31
IN.								.77	.38	.59	.27	.35

SAVANNAH RIVER BASIN

02193500 LITTLE RIVER NEAR WASHINGTON, GA.—Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7020	63	72	585	230	262	284	91	62	16	8.4	55
2	10000	63	67	475	191	246	312	75	64	15	7.8	42
3	4470	66	67	285	176	630	293	66	81	13	7.4	33
4	1250	67	62	208	198	561	202	65	89	11	7.5	26
5	390	66	60	177	225	354	171	576	77	11	6.8	20
6	279	65	60	385	170	287	157	786	65	10	8.7	17
7	212	64	65	706	152	237	170	236	59	10	7.6	15
8	176	66	563	1360	142	204	159	137	56	8.7	6.5	12
9	150	71	1190	1230	157	253	148	111	52	8.0	8.0	9.9
10	132	75	1120	589	875	428	138	301	59	7.5	28	8.7
11	118	69	532	364	1530	347	293	234	68	6.5	55	8.3
12	109	62	420	283	1060	271	254	157	59	6.3	37	9.2
13	103	59	1270	205	414	218	168	130	52	14	27	8.4
14	100	58	870	171	301	189	144	117	47	15	22	15
15	100	63	406	154	245	173	137	106	44	20	17	40
16	96	91	301	142	686	170	131	98	42	17	15	45
17	93	113	223	134	2110	1670	119	92	42	14	13	39
18	92	87	180	128	1710	5390	108	89	40	16	11	32
19	99	78	195	125	2900	3060	97	83	39	15	9.4	24
20	93	68	270	122	4140	900	95	81	36	22	8.0	18
21	85	67	220	307	2410	487	97	92	32	32	7.2	15
22	81	65	176	425	839	386	97	99	28	36	36	12
23	77	109	148	270	763	327	93	89	32	55	39	16
24	74	119	121	187	610	290	86	80	32	51	30	14
25	69	94	130	320	423	262	79	76	29	35	27	9.9
26	66	83	123	956	345	229	73	74	26	27	31	11
27	63	78	118	684	306	218	69	72	23	20	28	9.7
28	62	75	114	353	284	196	79	75	21	15	27	8.7
29	62	82	108	290	—	213	264	80	19	12	21	7.3
30	62	81	104	384	—	327	126	73	18	11	16	6.6
31	63	—	121	308	—	321	—	68	—	9.6	37	—
TOTAL	25846	2267	9476	12312	23592	19106	4643	4509	1393	559.6	610.3	587.7
MEAN	834	75.6	306	397	843	616	155	145	46.4	18.1	19.7	19.6
MAX	10000	119	1270	1360	4140	5390	312	786	89	55	55	55
MIN	62	58	60	122	142	170	69	65	18	6.3	6.5	6.6
CFSM	2.87	.26	1.05	1.36	2.90	2.12	.53	.50	.16	.06	.07	.07
IN.	3.30	.29	1.21	1.57	3.02	2.44	.59	.58	.18	.07	.08	.08
WTR YR 1990	TOTAL	104901.6	MEAN	287	MAX	10000	MIN	6.3	CFSM	.99	IN	13.41

SAVANNAH RIVER BASIN

021964839 SAVANNAH RIVER NEAR MARTINEZ, GA.

LOCATION.--Lat 33°33'25", long 82°02'30", Columbia County, Hydrologic Unit 03060106, 0.3 mi upstream from Augusta City Lock and Dam, 0.7 mi downstream from Stevens Creek Dam, 3.3 mi northeast of Martinez, and at mile 206.3.

DRAINAGE AREA.--7,150 mi².

PERIOD OF RECORD.--July 1990 to September 1990.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
JUL 24...	0900	5020	45	47	6.7	6.5	20.0	29.0	4.5	50
AUG 16...	0900	4780	55	47	6.7	6.6	20.5	30.0	4.2	47
SEP 20...	0730	6460	49	47	6.8	6.7	21.5	23.5	4.1	46

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CaCO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUL 24...	3.0	0.2	40	15	0.150	<0.030	0.050	2.2
AUG 16...	2.0	0.8	<20	14	0.130	<0.030	<0.020	2.8
SEP 20...	1.0	1.0	20	16	0.050	0.030	0.040	1.7

SAVANNAH RIVER BASIN

02196820 BUTLER CREEK AT FORT GORDON, GA.

LOCATION.--Lat 33°26'35", long 82°07'45" (revised), Richmond County, Hydrologic Unit 03060106, on upstream side of abandoned bridge 600 ft upstream from U.S. Highways 78 and 278 at Fort Gordon, and 0.3 mi downstream from Polar Bridge Creek.

DRAINAGE AREA.--7.5 mi².

PERIOD OF RECORD.--October 1968 to January 1991 (discontinued).

REVISED RECORDS.--WDR GA-83-1: 1970(M), 1972(M), 1975-78(M), 1980(M), 1982(M).

GAGE.--Water-stage recorder. Elevation of gage is 280 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: Aug. 3 to Sept. 13, and Oct. 12-15, 1990. Records good to fair, except those for the period Aug. 3 to Sept. 13, and those less than 1 ft³/s, which are fair; and those for the period after Oct. 11, 1990, which are poor.

AVERAGE DISCHARGE.--22 years, 7.82 ft³/s, 14.16 in./yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,700 ft³/s, Oct. 12, 1990, gage height, 13.30 ft, on basis of peak flow through culvert and over-the-road computations; minimum daily discharge, 0.03 ft³/s, July 7, 8, 1990.

EXTREMES FOR CURRENT PERIOD.--Water year 1990: Maximum discharge, 133 ft³/s, June 9, gage height, 3.46 ft, no peak greater than base discharge of 150 ft³/s; minimum daily discharge 0.03 ft³/s, July 7, 8.

October 1990 to January 1991: Maximum discharge during period, 4,700 ft³/s, Oct. 12, gage height, 13.30 ft, on basis of peak flow through culvert and over-the-road computations, no other peak greater than base discharge of 150 ft³/s; minimum daily discharge, 0.88 ft³/s, Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	3.0	4.6	20	7.1	7.7	8.9	3.8	.85	.11	.44	4.0
2	36	3.1	4.5	9.1	7.3	8.5	7.2	2.9	1.1	.08	.58	1.8
3	10	4.4	4.3	8.0	7.9	29	6.6	2.4	3.4	.06	1.8	1.4
4	7.1	5.0	4.2	7.6	14	11	6.3	2.6	4.8	.06	.40	1.1
5	5.8	4.2	4.3	8.2	9.7	9.2	6.0	7.2	1.6	.06	.40	1.0
6	5.2	4.2	4.3	22	7.2	8.4	5.7	7.0	1.0	.04	.80	1.0
7	5.5	4.3	9.7	24	7.5	7.8	7.1	4.0	.78	.03	.40	.80
8	7.0	5.0	56	32	6.8	8.0	5.8	3.1	12	.03	.40	.60
9	5.7	5.5	34	13	7.1	11	5.6	3.2	32	2.0	.60	.40
10	3.9	4.2	15	10	9.4	10	5.9	11	5.2	.72	15	1.4
11	3.7	3.8	9.9	9.2	8.1	8.2	13	4.5	5.6	.23	5.0	1.4
12	3.6	3.6	15	8.4	6.5	7.6	6.4	3.2	2.6	.09	2.2	1.0
13	3.7	3.5	18	7.7	6.1	7.6	5.5	2.7	1.6	.06	1.6	.90
14	3.9	4.6	9.4	7.7	6.0	7.1	5.7	2.4	1.3	.17	1.3	1.6
15	4.4	11	8.0	7.6	6.1	7.0	5.4	2.1	1.0	.28	1.4	3.5
16	4.1	20	7.4	7.5	22	7.2	5.0	1.8	1.2	.19	1.3	1.6
17	3.9	7.5	7.3	7.3	20	23	4.6	1.7	1.4	.14	1.0	1.0
18	6.8	6.1	8.2	7.3	9.9	13	4.2	1.7	1.1	.37	.80	.79
19	11	5.1	13	7.2	30	8.5	4.3	1.5	.78	2.3	.60	.76
20	5.9	4.7	11	7.2	13	7.5	4.7	1.5	.61	3.3	.90	.73
21	4.7	4.6	7.9	21	9.4	7.1	4.6	2.4	.53	1.5	1.5	.72
22	4.0	4.8	7.1	9.4	14	6.9	4.3	2.0	.49	4.1	4.0	.71
23	3.6	16	6.5	7.7	14	6.7	4.1	1.4	.50	5.8	4.5	.68
24	3.5	6.7	6.2	7.2	9.5	6.5	3.7	1.3	.36	2.0	2.7	.59
25	3.5	5.4	6.6	12	8.1	6.2	3.4	1.2	.32	1.7	1.8	.52
26	3.4	5.3	6.7	12	7.7	6.2	3.2	1.1	.31	5.3	1.6	.50
27	3.2	5.1	6.4	7.8	7.8	6.7	2.8	1.1	.27	1.9	1.6	.48
28	3.3	5.3	6.2	7.5	7.8	6.2	5.3	1.4	.23	1.0	1.0	.50
29	3.2	6.0	6.0	10	---	8.6	11	1.8	.20	.73	.70	.53
30	3.2	4.6	6.2	12	---	10	4.9	1.3	.18	.62	.90	.75
31	3.4	---	20	7.7	---	19	---	.96	---	.50	11	---
TOTAL	202.2	176.6	333.9	345.3	290.0	297.4	171.2	86.26	83.31	35.47	68.22	32.76
MEAN	6.52	5.89	10.8	11.1	10.4	9.59	5.71	2.78	2.78	1.14	2.20	1.09
MAX	36	20	56	32	30	29	13	11	32	5.8	15	4.0
MIN	3.2	3.0	4.2	7.2	6.0	6.2	2.8	.96	.18	.03	.40	.40
CFSM	.87	.79	1.44	1.48	1.39	1.28	.76	.37	.37	.15	.29	.15
IN.	1.00	.88	1.66	1.71	1.44	1.47	.85	.43	.41	.18	.34	.16
CAL YR 1989	TOTAL	2829.83	MEAN	7.75	MAX	72	MIN	.78	CFSM	1.03	IN	14.03
WTR YR 1990	TOTAL	2122.62	MEAN	5.82	MAX	56	MIN	.03	CFSM	.78	IN	10.53

SAVANNAH RIVER BASIN

02196820 BUTLER CREEK AT FORT GORDON, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	6.6	6.0	6.8								
2	1.1	6.8	6.1	10								
3	.88	6.8	6.6	7.1								
4	1.5	6.9	7.9	6.9								
5	3.5	7.3	6.1	6.5								
6	1.6	7.2	6.0	6.3								
7	1.2	7.2	6.4	6.8								
8	1.1	7.1	8.7	7.2								
9	1.1	18	6.6	6.5								
10	7.5	28	6.1	6.3								
11	26	7.9	6.1	26								
12	650	6.7	6.0	18								
13	46	6.5	6.2	12								
14	21	6.4	6.4	10								
15	15	6.4	6.5	11								
16	13	6.4	6.4	19								
17	13	6.5	6.3	11								
18	14	6.3	6.4	10								
19	13	6.4	7.8	18								
20	12	6.5	19	21								
21	11	6.4	11	12								
22	17	6.4	7.6	11								
23	49	6.4	7.0	—								
24	11	6.4	8.0	—								
25	8.4	6.1	6.4	—								
26	7.7	6.1	6.1	—								
27	6.8	6.2	6.2	—								
28	6.6	13	6.4	—								
29	6.3	9.6	6.6	—								
30	6.6	6.3	6.6	—								
31	6.4	—	7.6	—								
TOTAL	980.58	240.8	223.1	—								
MEAN	31.6	8.03	7.20	—								
MAX	650	28	19	—								
MIN	.88	6.1	6.0	—								
CFSM	4.21	1.07	.96	—								
IN.	4.86	1.19	1.11	—								
CAL YR 1990	TOTAL	2854.40	MEAN	7.82	MAX	650	MIN	.03	CFSM	1.04	IN	14.16

SAVANNAH RIVER BASIN

02196995 BUTLER CREEK AT LEVEE AT AUGUSTA, GA.

WATER-QUALITY RECORDS

LOCATION.--Lat 33°22'23", long 81°56'54", Richmond County, Hydrologic Unit 03060106, at levee, 0.1 mi upstream from mouth, 0.4 mi west of New Savannah Bluff Lock and Dam, and 6.9 mi south of Augusta Municipal Building.

DRAINAGE AREA.--73 mi², approximately.

PERIOD OF RECORD.--July 1990 to September 1990.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	GAGE HEIGHT (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
JUL 24...	1030	8.09	505	510	7.3	7.0	27.5	31.0	3.1	39
AUG 15...	1445	7.38	710	680	7.2	7.1	29.5	36.0	3.1	41
SEP 20...	1100	4.49	675	--	7.3	--	26.0	30.5	4.7	58

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUL 24...	19	0.2	9500	78	0.430	2.35	6.80	9.9
AUG 15...	150	4.4	1300	85	0.440	2.91	8.00	10
SEP 20...	--	--	790	--	1.93	1.68	5.60	8.7

SAVANNAH RIVER BASIN

02197000 SAVANNAH RIVER AT AUGUSTA, GA.

LOCATION.--Lat 33°22'25", long 81°56'35", Richmond County, Ga.-Aiken County, S.C., Hydrologic Unit 03060106, at New Savannah Bluff lock and dam, 0.2 mi upstream from Butler Creek, 12.0 mi downstream from Augusta, and at mile 187.4.

DRAINAGE AREA.--7,508 mi², including that of Butler Creek.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1883 to December 1891, January 1896 to December 1906, January 1925 to current year. Monthly discharge only for some periods, published in WSP 1303. Gage-height records collected at site of Fifth Street gage from 1875 to 1952 and at New Savannah Bluff lock and dam sites since 1937 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1303: 1927-39 (monthly runoff). WSP 1433: 1888, 1896-99, 1902-03, 1906-07, and 1932(M). WDR SC-77-1: 1975.

GAGE.--Water-stage recorder. Datum of gage is 96.58 ft, National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers benchmark). Oct. 1, 1883 to Dec. 31, 1891, Jan. 1, 1896 to Dec. 31, 1906, Jan. 1, 1925 to Sept. 30, 1932, nonrecord or recording gage at Fifth Street Bridge at datum 102.06 ft, NGVD (levels by Southeastern Engineering Co.). Oct. 1, 1932 to Sept. 30, 1936, recording gage at Thirteenth Street Bridge at datum 104.56 ft, NGVD (levels by U.S. Army Corps of Engineers) Oct. 1, 1936 to Nov. 10, 1948, recording gage at site 0.2 mi downstream from present site and at present datum.

REMARKS.--Estimated daily discharge: May 3, June 4, and Aug. 7. Records good, except those for periods of estimated daily discharges, which are poor. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, Richard B. Russell Reservoir, and Thurmond Lake. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, 02189004, and 02194500). Records of chemical analyses for the water years 1968-72 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--83 years (1884-91, 1897-1906, 1926-90), 9,989 ft³/s, 18.07 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 350,000 ft³/s, Oct. 3, 1929; maximum gage height, 46.3 ft, Sept. 27, 1929 (at site and datum then in use); minimum discharge, 648 ft³/s, Sept. 24, 1939, from rating curve extended below 1,400 ft³/s minimum daily, 1,040 ft³/s, Oct. 2, 1927.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known occurred January 17, 1796, discharge, 360,000 ft³/s, gage height, 40 ft, marked by local residents, at site and datum of Fifth Street gage, by conveyance-slope study. Little information exists and the data are considered approximate. Data furnished by the U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35,300 ft³/s, Feb. 27, gage height, 20.69 ft; minimum daily discharge, 4,010 ft³/s, Oct. 30.

SAVANNAH RIVER BASIN

02197000 SAVANNAH RIVER AT AUGUSTA, GA.—Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	4390	7360	9430	5340	16300	26800	6710	7260	11600	5040	8460	12900		
2	10200	8590	8150	9820	15800	23200	5940	8870	11000	5490	8620	7020		
3	20100	9570	4750	11000	13500	22600	8020	7800	6890	6740	9040	7620		
4	18200	8540	6690	10200	5610	24500	7280	6270	6100	5960	6300	8520		
5	21500	4030	9570	11200	7740	23000	8310	5730	5490	6120	5230	8020		
6	25300	4110	10100	9620	14700	24700	6400	6470	5600	8600	5220	9790		
7	24500	7120	10700	6470	16000	25000	5660	8250	5320	6380	6280	14200		
8	23900	7170	12200	7570	16200	24900	5020	9180	5310	4930	8160	11900		
9	14800	6720	20200	12800	15900	24500	4520	8360	7640	6010	9470	7250		
10	14800	6970	21400	10600	13900	24300	8700	7660	6360	8250	8930	6240		
11	14100	5440	19200	8760	13900	24400	11400	7630	5910	8820	5700	5200		
12	14000	4210	18500	7300	13700	25600	11500	11800	5250	8780	5200	5100		
13	14200	4310	19600	7330	19100	25500	11200	7920	5020	7490	6170	5050		
14	11900	4520	20700	4520	22500	25000	9620	7290	5850	5070	8700	5210		
15	5840	4730	18600	5270	23200	24600	5880	10900	7280	5040	8490	5940		
16	6510	6120	18400	12300	24600	24100	4600	15700	5240	5350	8520	5580		
17	13400	6370	17900	13500	24900	20400	9210	16900	5070	5160	7260	5000		
18	16400	4360	17400	13200	20700	28200	13900	17200	5620	8170	8440	4960		
19	18400	4590	18400	13000	26900	31700	11500	17200	7100	7640	5330	4980		
20	18000	5230	19600	10600	31600	30800	11200	17500	7990	5130	7620	5040		
21	13700	4370	18200	5430	31900	31000	9070	16900	8180	5900	8110	6520		
22	5200	4070	18000	6450	28800	31500	4580	17300	7590	5600	9570	6370		
23	4780	4360	19700	11800	27000	31600	5130	17900	4930	6420	9670	4880		
24	10900	4380	19200	12600	28700	31700	8810	18100	4890	8440	9350	5880		
25	12300	4040	17200	12300	32500	31700	8320	17000	5870	7830	6770	6280		
26	11800	4050	17600	11700	32700	31300	8860	15000	7300	7330	6090	6290		
27	12700	5730	17400	12400	34600	20800	8170	6340	7160	6700	6440	6290		
28	9970	6660	17200	7260	33000	17600	6110	5420	5500	5120	12500	6410		
29	4680	11400	17200	10700	---	16900	5450	12000	5530	4850	14400	5390		
30	4010	10200	13900	15900	---	16600	5700	13600	4920	6520	14600	4910		
31	7000	---	6230	16900	---	13700	---	13400	---	8040	13900	---		
TOTAL	407480	179320	483320	313840	605950	778200	236770	358850	193510	202920	258540	204740		
MEAN	13140	5977	15590	10120	21640	25100	7892	11580	6450	6546	8340	6825		
MAX	25300	11400	21400	16900	34600	31700	13900	18100	11600	8820	14600	14200		
MIN	4010	4030	4750	4520	5610	13700	4520	5420	4890	4850	5200	4880		
CAL YR 1989	TOTAL	2610800	MEAN	7153	MAX	25300	MIN	3800	MEAN†	9256	CFSM†	1.23	IN†	16.74
WTR YR 1990	TOTAL	4223440	MEAN	11570	MAX	34600	MIN	4010	MEAN†	10865	CFSM†	1.45	IN†	19.65

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, HARTWELL LAKE, RICHARD B. RUSSELL RESERVOIR, AND THURMOND LAKE.

SAVANNAH RIVER BASIN

02197000 SAVANNAH RIVER AT AUGUSTA, GA.--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to August 1972, July 1990 to September 1990.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
JUL 24...	1100	8480	51	51	7.2	6.8	23.5	32.0	7.4	87
AUG 15...	1515	8560	60	55	7.1	7.0	23.5	36.0	6.9	81
SEP 20...	1145	4840	62	59	7.0	6.9	23.5	34.5	7.0	82

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUL 24...	3.0	0.1	170	15	0.250	0.040	0.060	3.1
AUG 15...	1.0	0.6	70	16	0.160	<0.030	0.060	2.6
SEP 20...	1.0	1.0	20	18	0.190	0.070	0.110	2.2

SAVANNAH RIVER BASIN

02197065 SAVANNAH RIVER BELOW SPIRIT CREEK NEAR AUGUSTA, GA.

LOCATION.--Lat 33°19'50", long 81°54'55", Richmond County, Hydrologic Unit 03060106, 0.5 mi downstream from Spirit Creek, 50 ft upstream from the Federal Paperboard outfall, 10 mi southwest of Augusta, and at mile 182.5.

DRAINAGE AREA.--7,630 mi².

PERIOD OF RECORD.--July 1990 to September 1990.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, Richard B. Russel Reservoir and Thurmond Lake (See "Lakes and Reservoirs in Savannah River Basin", stations 02178500, 02179500, 02187250, 02189004, and 02194500, respectively).

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
JUL 23...	1445	5990	61	63	7.2	6.9	25.0	30.0	8.2	99
AUG 15...	1415	8560	68	68	7.1	6.9	23.0	36.0	7.8	91
SEP 20...	0930	4900	76	74	7.0	6.9	23.0	30.5	8.6	100

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)
JUL 23...	2.0	12	0.3	1300	12	2
AUG 15...	2.0	10	0.7	130	15	1
SEP 20...	1.0	6	1.0	<20	21	1

DATE	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUL 23...	0.290	0.040	--	<0.10	--	0.100	2.8
AUG 15...	0.180	<0.030	--	0.20	0.38	0.090	2.3
SEP 20...	0.200	0.060	0.04	0.10	0.30	0.110	2.1

SAVANNAH RIVER BASIN

02197320 SAVANNAH RIVER NEAR JACKSON, S.C.

LOCATION.--Lat 33°13'01", long 81°46'04", Aiken County, S.C.-Burke County, Ga., Hydrologic Unit 03060106, on left bank 0.5 mi downstream from Upper Three Runs Creek (revised), 6.2 mi south of Jackson, 15.2 mi upstream from Steel Creek, and at mile 156.8.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to current year, discharge defined below 22,000 ft³/s, only.

GAGE.--Water-stage recorder. Datum of gage is 77.0 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Sept. 24-30. Records good, except those for period of estimated daily discharges, which are poor.

Water is diverted above and below gage by the Savannah River Plant with the volume diverted varying from day to day. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, Richard B. Russell Reservoir, and Thurmond Lake, and affected, to some degree, by the Savannah River Plant operations. (See "Lakes and Reservoirs in Savannah River Basin," station 02178500, 02179500, 02187250, 02189004, and 02194500.) At times of high flow, bankfull capacity is exceeded in the intervening channel reach.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, undetermined, Apr. 11, 1983; maximum gage height, 21.57 ft, Apr. 11, 1983; minimum daily discharge, 3,220 ft³/s, Dec. 9, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge undetermined, Feb. 28; gage height, 19.61 ft; minimum daily discharge, 4,880 ft³/s, July 16.

REVISIONS.--The daily mean discharge of 90,000 ft³/s, April 10, 1983, has been revised to discharge unknown.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEARS OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5920	8180	11000	8900	17500	---	15100	6760	13100	5000	8090	14300
2	7900	9040	9980	9060	17700	---	9570	8610	12700	5080	8540	10700
3	15200	10300	7600	12300	17500	---	9030	9090	9830	6010	8930	7740
4	18300	10500	5850	12200	12900	---	8560	8030	6800	6110	8150	8110
5	18700	7550	9320	12100	7720	---	9130	6420	6220	5710	5660	8210
6	19900	5280	10400	12200	12900	---	8600	6600	5820	7320	5420	8880
7	21000	6320	11500	9650	16100	---	6850	7190	5700	7600	6870	11900
8	21700	8080	12200	8180	17000	---	6310	9410	5500	5460	8170	13400
9	21500	8160	16200	11400	17400	---	5530	9130	6770	5180	8910	10100
10	19500	7330	18900	13700	17400	---	7040	8490	7010	6780	9450	6990
11	18200	7960	20100	11500	16200	---	10600	8170	6540	7920	7560	5800
12	17200	5630	20200	9650	16100	---	12200	9990	5830	8250	5560	5370
13	16700	5130	20200	8350	16300	---	12300	10700	5340	7840	5400	5230
14	16200	5370	20400	7300	18600	---	11500	7870	5340	5990	7520	5230
15	11400	5900	20600	5720	20200	---	9050	8940	6910	4960	8450	5600
16	7640	6360	20300	8780	21300	---	5770	13000	6440	4880	8520	5850
17	11500	7240	19900	14100	---	---	6970	15600	5400	5000	8140	5310
18	15300	6690	19600	14800	---	21600	12500	16600	5430	6040	8340	5070
19	17400	5480	19200	14600	---	---	13300	17000	6230	7760	6080	5050
20	18500	5440	19500	14200	---	---	12400	17300	7490	6410	5960	5030
21	18500	5910	19900	9820	---	---	11500	17600	8000	5500	7890	5450
22	13700	5210	19800	6350	---	---	7450	17500	8210	5840	8860	6950
23	7590	5140	19800	10700	---	---	5320	17700	6360	5790	10400	5340
24	8970	5400	20000	13200	---	---	7560	17900	5270	7710	10100	5500
25	13000	5200	20000	14000	---	---	8500	18000	5380	8580	8780	6200
26	13400	5020	19600	13600	---	---	9060	17700	6710	7870	6320	6600
27	13700	5270	19400	13900	---	---	9360	14100	7310	7500	6090	6800
28	13900	7270	19200	12400	---	---	7650	8290	6100	6360	9730	6700
29	8790	9670	19100	9040	---	20600	6520	9490	5580	5190	12900	6300
30	5550	11700	18800	14300	---	19600	6060	13100	5200	5220	13900	5700
31	6030	---	14800	16700	---	18900	---	14100	---	7560	14400	---
TOTAL	442790	207730	523350	352700	---	---	271290	370380	204520	198420	259090	215410
MEAN	14280	6924	16880	11380	---	---	9043	11950	6817	6401	8358	7180
MAX	21700	11700	20600	16700	---	---	15100	18000	13100	8580	14400	14300
MIN	5550	5020	5850	5720	---	---	5320	6420	5200	4880	5400	5030

CAL YR 1989 TOTAL 2887880 MEAN 7912 MAX 21700 MIN 4360 MEAN† 10015

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, HARTWELL LAKE, RICHARD B. RUSSELL RESERVOIR, AND THURMOND LAKE.

SAVANNAH RIVER BASIN

02197320 SAVANNAH RIVER NEAR JACKSON, S.C.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—October 1972 to current year.

PERIOD OF DAILY RECORD.—

WATER TEMPERATURE: October 1971 to current year.

INSTRUMENTATION.—Water-temperature recorder since October 1971.

EXTREMES FOR PERIOD OF DAILY RECORD.—

WATER TEMPERATURE: Maximum, 28.5°C Aug. 23, 1989; minimum, 4.5°C Jan. 19, 20, 22, 23, Feb. 1, 1977, Feb. 9, 1978, Jan. 12, 1982.

EXTREMES FOR CURRENT YEAR.—

WATER TEMPERATURES: Maximum, 27.5°C July 30, 31; minimum, 7.0°C Dec. 24, 25.

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.5	21.5	20.0	19.5	15.0	14.0	11.0	10.5	11.0	10.0	13.0	12.0
2	23.0	22.5	20.0	19.5	14.5	14.0	10.5	9.5	11.5	10.5	13.0	12.0
3	22.5	22.0	19.5	18.5	14.0	13.0	10.0	9.0	12.5	11.5	13.0	12.5
4	22.5	22.0	18.5	18.0	13.0	12.0	10.5	9.5	14.0	12.5	13.0	12.5
5	22.5	21.5	18.5	18.0	13.0	11.5	10.5	10.5	13.5	12.5	13.5	13.0
6	22.0	21.0	18.5	18.0	13.5	11.5	11.0	10.5	13.0	12.0	13.5	13.5
7	22.0	21.5	19.0	18.5	14.0	13.5	11.0	11.0	12.0	11.5	13.5	13.5
8	22.0	21.5	19.0	19.0	14.5	14.0	11.5	11.0	12.0	11.5	13.5	12.0
9	21.5	20.5	20.0	19.0	14.0	12.5	11.0	10.5	12.5	11.5	12.0	12.0
10	20.5	20.5	19.5	18.5	12.5	11.0	11.0	10.5	12.5	12.0	13.5	12.0
11	21.0	20.0	19.0	18.0	11.0	10.5	10.5	10.0	12.5	12.0	14.5	13.5
12	21.5	20.5	18.5	17.5	12.0	11.0	11.0	10.0	12.5	12.0	15.0	14.5
13	21.5	21.0	18.5	18.0	12.5	11.5	10.0	9.5	12.5	12.0	15.5	15.0
14	21.5	21.0	18.5	18.0	12.0	10.5	9.5	9.0	12.0	11.0	15.5	15.0
15	21.5	20.5	18.5	18.0	11.0	10.0	10.0	9.0	12.5	11.5	15.5	15.5
16	22.0	21.5	18.5	17.5	11.0	11.0	10.0	9.5	13.5	12.5	16.0	15.5
17	23.0	22.0	17.5	16.5	11.0	10.0	10.5	9.0	13.5	13.5	16.0	15.5
18	22.5	22.0	16.5	15.5	10.5	9.5	11.0	10.0	13.5	13.0	15.5	15.0
19	22.0	20.5	15.5	15.0	10.5	10.0	11.0	10.5	13.0	12.0	15.0	15.0
20	20.5	19.0	15.5	14.5	10.5	10.0	11.5	10.5	13.0	12.0	15.0	14.5
21	19.0	17.5	15.5	15.0	10.0	9.5	12.5	11.5	12.5	12.0	14.0	13.5
22	17.5	17.0	15.0	14.5	9.5	9.0	12.5	11.5	13.0	12.0	14.5	13.5
23	18.5	17.5	14.5	14.0	9.0	8.0	11.5	11.0	13.0	13.0	15.0	14.5
24	18.5	18.0	14.0	13.5	8.0	7.0	11.5	10.5	13.0	12.5	15.5	15.0
25	19.5	18.5	13.5	13.0	8.0	7.0	11.5	11.0	12.5	11.5	15.5	15.0
26	19.0	19.0	15.0	13.5	8.5	7.5	11.5	11.0	11.5	11.0	15.5	15.5
27	19.5	19.0	16.0	15.0	8.5	8.0	11.0	10.0	11.5	10.5	15.5	15.0
28	19.5	19.0	17.0	16.0	9.0	8.5	10.5	9.5	12.5	11.5	15.0	15.0
29	19.5	18.5	17.0	16.5	9.0	9.0	11.0	10.5	---	---	15.0	15.0
30	20.0	19.5	16.5	15.0	9.5	9.0	11.0	10.5	---	---	14.5	14.0
31	20.5	20.0	---	---	10.5	9.0	11.0	10.0	---	---	14.5	14.0
MONTH	23.0	17.0	20.0	13.0	15.0	7.0	12.5	9.0	14.0	10.0	16.0	12.0

[illegible]

SAVANNAH RIVER BASIN

02197370 SAVANNAH RIVER BELOW STEEL CREEK, NEAR MILLETT, S.C.

LOCATION.--Lat 33°04'58", long 81°35'54", Allendale County, S.C.-Burke County, Ga., Hydrologic Unit 3060106, on left bank 2.8 mi downstream from Steel Creek, 12.6 mi upstream from Lower Three Runs, 3.7 mi west of Millett, and at mile 138.8.

PERIOD OF RECORD.--Water years 1972 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1971 to current year.

INSTRUMENTATION.--U.S. Geological Survey mini-monitor and data-collection platform.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 31.5°C Sept. 7, 1982; minimum, 4.0°C Jan. 20, 1977.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 28.0°C, July 2, 3; minimum, 7.5°C Dec. 24-26.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	21.5	21.0	20.0	19.5	16.0	15.0	11.5	10.5	12.0	10.0	13.5	12.5
2	22.0	21.5	20.0	19.5	---	---	11.0	10.0	12.5	12.0	13.5	13.0
3	22.0	21.5	19.5	19.0	---	---	10.5	10.0	13.0	12.5	14.0	13.5
4	21.5	21.0	18.5	18.0	---	---	10.5	10.0	15.0	13.0	14.0	13.5
5	21.5	21.0	18.5	18.0	13.5	11.5	11.0	11.0	15.0	14.0	14.0	13.5
6	21.0	20.5	18.5	18.0	13.5	11.5	11.5	11.0	14.0	13.0	14.5	14.0
7	21.5	20.5	19.0	18.5	14.5	13.5	11.5	11.5	13.5	12.5	14.5	14.0
8	21.5	21.0	19.0	19.0	14.5	14.5	12.0	11.5	13.0	12.5	14.0	13.0
9	21.0	20.0	20.0	19.0	14.5	13.0	12.0	11.5	13.0	13.0	13.0	13.0
10	20.0	19.5	19.5	19.0	13.0	12.0	11.5	11.0	13.5	13.0	14.0	12.5
11	19.5	19.0	19.0	18.5	12.0	11.5	11.5	11.0	13.5	13.0	15.0	14.0
12	20.0	19.5	18.5	18.0	12.0	11.5	11.5	11.0	13.5	13.0	16.0	15.0
13	20.5	20.0	19.0	18.0	12.5	12.0	11.0	10.0	13.5	13.0	16.5	16.0
14	20.5	20.5	18.5	17.5	12.0	11.5	10.0	10.0	13.0	12.5	17.0	16.5
15	20.5	20.0	19.0	18.5	11.5	11.0	10.5	9.5	13.5	12.5	17.0	16.5
16	21.5	20.5	19.0	18.0	11.5	11.0	11.0	10.0	14.5	13.5	17.5	16.5
17	22.0	21.0	18.0	16.5	11.0	10.5	11.0	10.0	15.0	14.5	17.0	16.5
18	22.0	21.5	16.5	16.0	10.5	10.0	11.0	11.0	14.5	14.0	16.5	16.0
19	21.5	20.0	16.0	15.5	10.0	10.0	11.5	11.0	14.0	13.0	16.0	15.5
20	20.0	18.5	15.5	14.5	10.5	10.0	11.5	11.5	13.5	13.0	16.0	15.5
21	18.5	17.5	16.0	15.0	10.5	10.0	13.0	11.5	13.5	13.0	15.0	14.5
22	17.5	16.5	15.5	15.0	10.0	9.5	12.5	12.0	13.5	13.0	15.0	14.5
23	17.0	16.5	15.0	14.5	9.5	8.5	12.5	12.0	14.0	13.5	16.0	15.0
24	18.0	17.0	14.5	14.0	8.5	7.5	12.5	11.5	14.0	13.5	16.5	15.5
25	18.5	17.5	14.5	13.5	8.0	7.5	12.0	11.5	13.5	12.5	17.0	16.0
26	19.0	18.0	15.0	14.0	8.5	7.5	12.0	11.5	12.5	12.0	17.0	16.5
27	19.0	18.5	16.0	15.0	9.0	8.0	11.5	11.0	12.0	11.5	16.5	16.0
28	19.5	18.5	17.0	16.0	9.5	9.0	11.0	10.0	12.5	12.0	16.0	15.5
29	19.0	18.5	17.0	17.0	9.5	9.0	---	---	---	---	16.0	15.5
30	20.0	19.0	17.0	16.0	10.0	9.5	---	---	---	---	15.5	15.0
31	20.5	20.0	---	---	10.5	10.0	---	---	---	---	15.0	15.0
MONTH	22.0	16.5	20.0	13.5	16.0	7.5	13.0	9.5	15.0	10.0	17.5	12.5

SAVANNAH RIVER BASIN

02197370 SAVANNAH RIVER BELOW STEEL CREEK, NEAR MILLETT, S.C.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

SAVANNAH RIVER BASIN

02197375 SAVANNAH RIVER AT STONY BLUFF LANDING, GA.

WATER-QUALITY RECORDS

LOCATION.--Lat 33°02'37", long 81°33'23", Burke County, Hydrologic Unit 03060106, at Stony Bluff Landing, 0.7 mi downstream from Little Sweetwater Creek, 9.0 mi east of Girard, and at mile 132.8.

PERIOD OF RECORD.--July 1990 to September 1990.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, Richard B. Russel Reservoir and Thurmond Lake (See "Lakes and Reservoirs in Savannah River Basin", stations 02178500, 02179500, 02187250, 02189004, and 02194500, respectively).

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	GAGE HEIGHT (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
JUL 23...	1115	3.08	77	79	7.1	6.8	25.0	34.0	7.2	87
AUG 15...	1110	5.09	79	73	7.1	7.0	25.5	33.0	6.7	82
SEP 19...	1415	2.04	97	94	7.2	7.0	24.0	31.0	7.2	85

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUL 23...	45	8.0	0.7	60	17	0.280	<0.030	0.120	3.4
AUG 15...	10	6.0	1.1	50	17	0.220	<0.030	0.100	3.1
SEP 19...	20	5.0	1.1	20	23	0.260	0.040	0.120	2.7

SAVANNAH RIVER BASIN

02197500 SAVANNAH RIVER AT BURTONS FERRY BRIDGE, NEAR MILLHAVEN, GA.

LOCATION.--Lat 32°56'20", long 81°30'10", Screven County, Ga.-Allendale County, S.C., Hydrologic Unit 03060106, on right bank 500 ft downstream of bridge on U.S. Highway 301, 2.0 mi downstream from Rocky Creek, 9.0 mi east of Millhaven, and at mile 118.7.

DRAINAGE AREA.--8,650 mi², approximately.

PERIOD OF RECORD.--October 1939 to September 1970, October 1982 to current year.

GAGE.--Data collection platform. Datum of gage is 54.42 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 1, 17-19. Records good. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, Richard B. Russell Reservoir, and Thurmond Lake. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, 02189004, and 02194500.)

AVERAGE DISCHARGE.--39 years, 10,210 ft³/s, 16.03 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 141,000 ft³/s, Aug. 18, 1940; gage height, 27.0 ft; minimum daily, 2,120 ft³/s, Sept. 9, 1951.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in October 1929 reached a stage of 30.8 ft, from information by Corps of Engineers, discharge, 220,000 ft³/s from rating curve extended above 141,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36,000 ft³/s, Mar. 2, gage height 18.14 ft; minimum daily discharge, 4,730 ft³/s, Nov. 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5700	6380	10600	19100	14600	34200	25200	6610	14400	5280	7860	14200
2	6900	7780	10200	14500	15700	35600	22400	7520	14100	5070	8490	14200
3	9350	8730	9190	11900	16400	35400	17500	8930	13300	5240	8890	11400
4	13500	9620	6920	12300	16700	33600	13000	9170	10300	6300	9180	8880
5	15300	9430	6370	12100	14700	31000	10200	8030	7720	6240	7930	8790
6	16700	6810	8860	12000	10800	29000	9840	6840	6750	6140	5970	8700
7	17400	5140	9840	11700	12700	27900	8770	7030	6300	7830	5890	9600
8	18500	6470	10900	10200	14500	27300	7370	8090	6040	7380	7450	11900
9	19900	7650	12300	9730	15500	27200	6530	9440	6130	5570	8710	12700
10	21400	7620	14500	11900	16100	27300	5770	9320	7590	5600	9470	10200
11	22500	7320	16200	12800	16600	27500	8230	8820	7430	7560	9600	7570
12	22500	7030	17400	11400	16700	27700	10900	8690	6880	8690	7660	6100
13	21400	5360	18700	9510	16500	27600	12100	10500	6110	8950	5950	5560
14	20100	4860	19800	8470	16500	27600	12300	10100	5570	8430	6020	5350
15	18800	5160	20600	6930	17000	27700	11500	8480	5890	6530	8090	5410
16	15300	5750	21400	6190	17900	27900	8890	9950	7380	5500	8720	5910
17	14500	6420	21800	9660	19300	28200	6290	12700	6670	5400	8820	5960
18	14000	7040	22100	12600	20900	28400	8390	14300	5770	5520	8340	5370
19	15000	6150	22100	13600	23200	28100	12200	15300	5870	7390	8390	5100
20	15600	5290	21800	13900	25200	27500	13000	16100	6930	8340	6260	5070
21	16600	5320	21500	13400	26200	27700	12700	16700	7970	6740	6800	5080
22	17100	5370	21300	9640	27200	29700	11300	17300	8450	6180	8470	5990
23	15500	4950	21200	7560	29500	31900	7710	17800	8290	6270	10000	6790
24	10300	4960	21100	10600	32000	33100	5950	18200	6340	6620	10900	5400
25	10400	5140	21100	12300	32700	33800	8200	18600	5260	8330	10700	5510
26	12200	4900	21200	13100	32000	34200	8900	19000	5620	8910	8990	6280
27	12700	4730	21200	13300	31700	34400	9360	19200	7080	8600	7160	6460
28	13000	5420	21100	13400	32700	34400	9270	18200	7490	7990	7160	6500
29	12500	7060	20900	11400	---	33500	7960	14100	6320	6540	10500	6610
30	8430	9640	20600	10300	---	30600	6960	12800	5840	5390	12600	6110
31	5640	---	20400	13000	---	27600	---	13800	---	5910	13600	---
TOTAL	458720	193500	533180	358490	581500	937600	318690	381620	225790	210440	264570	228700
MEAN	14800	6450	17200	11560	20770	30250	10620	12310	7526	6788	8535	7623
MAX	22500	9640	22100	19100	32700	35600	25200	19200	14400	8950	13600	14200
MIN	5640	4730	6370	6190	10800	27200	5770	6610	5260	5070	5890	5070

CAL YR 1989	TOTAL	2907670	MEAN	7966	MAX	22500	MIN	4100	MEAN†	10069	CFSM†	1.16	IN†	15.81
WTR YR 1990	TOTAL	4692800	MEAN	12860	MAX	35600	MIN	4730	MEAN†	12155	CFSM†	1.41	IN†	19.08

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, HARTWELL LAKE, RICHARD B. RUSSELL RESERVOIR, AND THURMOND LAKE.

SAVANNAH RIVER BASIN

02197500 SAVANNAH RIVER AT BURTONS FERRY BRIDGE, NEAR MILLHAVEN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1957, 1958, 1968-72, 1974-79, September 1988 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC 06...	1040	8900	93	91	7.0	6.9	10.5	18.0	5.4	48
MAR 07...	1045	27900	65	67	7.1	6.6	13.5	11.0	5.8	55
JUN 06...	0955	6840	93	--	7.1	7.1	21.5	27.5	5.0	56
JUL 23...	1000	6240	82	86	7.2	7.0	25.0	30.0	7.2	87
AUG 15...	1000	8090	90	83	7.2	7.1	26.0	28.0	6.6	81
SEP 19...	1245	5090	96	94	7.2	7.0	24.0	31.0	7.1	84

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC 06...	20	10	2.3	170	20	0.350	0.040	0.090	7.1
MAR 07...	--	7.0	0.8	--	16	0.110	0.050	0.100	4.4
JUN 06...	15	9.0	0.8	50	17	0.180	0.090	0.080	4.0
JUL 23...	40	7.0	0.9	<20	15	0.330	<0.030	0.110	4.5
AUG 15...	10	7.0	0.7	40	17	0.300	<0.030	0.110	3.3
SEP 19...	30	6.0	1.0	20	20	0.290	<0.030	0.130	2.7

SAVANNAH RIVER BASIN

02197520 BRIER CREEK NEAR THOMSON, GA.

LOCATION.--Lat 33°22'06", long 82°28'06", McDuffie County, Hydrologic Unit 03060108, on downstream side of bridge on State Highway 17, 0.2 mi upstream from Sweetwater Creek, and 6.9 mi south of Thomson.

DRAINAGE AREA.--55 mi², approximately.

PERIOD OF RECORD.--July 1967 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 300 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--23 years, 45.1 ft³/s, 11.14 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,810 ft³/s, Mar. 3, 1971, gage height, 18.09 ft, from floodmark; minimum daily discharge, 0.14 ft³/s, July 21, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 0.007 ft³/s was measured on Oct. 14, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	0400	*1,140	10.56	No other peak greater than base discharge			

Minimum daily discharge, 0.63 ft³/s, Aug. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	594	11	19	280	57	54	88	18	4.6	1.1	.92	2.8
2	689	12	18	112	54	56	61	14	5.3	.95	1.5	1.7
3	165	14	17	81	53	408	51	12	6.8	1.0	1.9	1.3
4	96	13	16	72	68	167	42	12	5.8	.82	1.3	1.0
5	70	12	15	75	68	103	38	56	4.6	.75	1.1	.91
6	55	11	16	243	49	83	35	72	3.9	.97	.88	.83
7	45	11	24	228	47	71	42	30	3.5	1.3	.88	.78
8	38	13	345	409	43	62	34	19	5.3	1.1	.97	.66
9	31	15	483	187	44	82	30	16	13	.99	1.4	.79
10	27	15	259	123	73	113	28	88	5.5	1.1	2.6	.89
11	26	12	123	96	87	77	62	46	4.0	1.1	1.8	1.0
12	24	10	143	82	56	65	40	25	3.1	1.5	1.0	.89
13	23	10	291	67	45	57	31	18	2.7	1.3	.91	.74
14	23	9.8	128	61	41	54	27	15	2.5	1.5	.97	1.5
15	24	19	90	59	40	51	25	13	2.5	3.5	.86	4.6
16	22	69	78	57	121	51	23	11	2.2	1.9	.77	.97
17	22	34	64	54	305	273	20	11	2.3	1.6	.74	.68
18	27	20	64	53	112	313	17	12	2.0	1.7	.63	3.0
19	45	16	117	53	312	122	16	9.0	2.2	2.0	.87	1.0
20	27	15	135	52	219	89	18	8.0	1.9	1.8	.73	.74
21	20	14	85	165	115	72	17	8.1	1.6	1.7	.75	.70
22	17	14	68	111	112	64	16	7.6	1.7	1.9	1.1	.68
23	15	80	56	71	129	59	15	6.6	4.1	3.8	2.1	.74
24	13	42	50	61	91	54	13	6.2	2.5	1.7	1.3	.75
25	12	27	51	75	69	51	11	5.7	1.8	1.4	1.1	.99
26	12	23	51	104	58	46	9.9	5.2	1.7	1.1	2.8	.92
27	11	22	47	64	55	45	8.8	4.8	1.6	.97	1.4	1.1
28	11	23	45	55	55	43	32	4.8	1.4	.67	1.2	1.2
29	10	33	41	63	---	60	68	6.6	1.3	.91	.82	1.1
30	11	23	41	117	---	86	28	6.0	1.1	.92	.97	1.5
31	11	---	112	71	---	112	---	4.9	---	.87	19	---
TOTAL	2216	642.8	3092	3401	2578	3043	946.7	571.5	102.5	43.92	55.27	36.46
MEAN	71.5	21.4	99.7	110	92.1	98.2	31.6	18.4	3.42	1.42	1.78	1.22
MAX	689	80	483	409	312	408	88	88	13	3.8	19	4.6
MIN	10	9.8	15	52	40	43	8.8	4.8	1.1	.67	.63	.66
CFSM	1.30	.39	1.81	2.00	1.68	1.79	.58	.34	.06	.03	.03	.02
IN.	1.50	.43	2.09	2.30	1.74	2.06	.64	.39	.07	.03	.04	.02

CAL YR 1989	TOTAL	18575.30	MEAN	50.9	MAX	805	MIN	2.7	CFSM	.93	IN	12.56
WTR YR 1990	TOTAL	16729.15	MEAN	45.8	MAX	689	MIN	.63	CFSM	.83	IN	11.31

SAVANNAH RIVER BASIN

02197600 BRUSHY CREEK NEAR WRENS, GA.

LOCATION.--Lat 33°10'37", long 82°18'20", Jefferson County, Hydrologic Unit 03060108, at right bank on downstream side of bridge on State Highway 80, 5 mi southeast of Wrens, and 5.5 mi upstream from Little Brushy Creek.

DRAINAGE AREA.--28.0 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 282.56 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.--No estimated daily discharges. Records good. Discharge during growing season affected by undetermined amount of irrigation withdrawal. Moderate diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--32 years, 24.8 ft³/s, 12.03 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.03 ft, Mar. 3, 1971 (discharge not determined); minimum daily discharge, 3.6 ft³/s, July 22, 1988, and July 7, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	0300	*136	*4.26

Minimum daily discharge, 3.6 ft³/s, July 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	8.7	15	48	18	17	23	13	8.3	4.1	5.0	6.1
2	80	9.2	13	27	17	18	18	9.8	10	3.9	5.3	5.6
3	27	11	12	21	17	33	16	9.3	11	3.8	6.9	5.6
4	18	10	12	20	18	26	15	9.7	12	4.0	7.5	4.7
5	15	9.8	12	20	17	20	14	13	8.9	4.2	7.0	4.6
6	14	9.7	12	39	16	18	15	14	7.8	3.8	6.0	4.7
7	13	9.8	24	50	15	16	20	11	7.3	3.6	5.8	4.3
8	13	11	90	75	14	16	15	10	7.4	6.2	6.5	4.7
9	12	12	81	42	14	18	13	11	9.0	8.9	11	5.2
10	12	11	48	32	19	21	13	17	7.6	5.5	19	5.9
11	12	10	33	27	23	17	16	14	6.6	5.3	10	5.4
12	12	10	34	24	17	16	15	11	6.2	4.8	7.0	5.2
13	11	9.8	47	22	15	17	13	9.9	5.8	6.0	6.2	5.0
14	12	9.8	31	21	14	14	14	9.8	5.5	7.8	6.0	6.0
15	16	17	26	20	13	13	13	8.7	5.3	8.1	5.5	7.0
16	15	23	24	19	35	13	11	8.3	6.3	6.3	5.1	5.7
17	13	16	22	18	83	34	10	8.1	6.5	6.4	5.2	5.4
18	19	13	23	18	32	47	11	8.6	5.6	13	5.3	4.8
19	29	12	30	17	54	25	11	8.5	5.5	17	5.0	5.0
20	17	12	32	17	39	20	11	7.7	5.0	14	4.8	5.1
21	13	12	25	34	27	18	13	8.6	4.9	12	4.8	5.9
22	11	12	22	30	28	17	10	8.1	5.2	12	14	6.6
23	10	23	20	21	35	16	10	7.5	6.8	14	11	7.1
24	9.5	18	19	19	25	16	10	7.4	6.3	21	9.2	6.3
25	9.1	14	18	21	21	15	9.6	6.9	6.0	15	10	6.1
26	9.0	14	18	37	19	15	9.6	7.1	5.3	9.3	10	6.7
27	8.6	13	17	23	18	15	9.4	7.1	5.4	7.6	8.1	6.8
28	8.8	17	16	20	18	15	14	11	5.2	6.9	6.8	7.4
29	8.8	19	15	20	---	18	28	17	4.8	6.3	6.3	9.9
30	8.9	18	15	25	---	21	17	10	4.5	5.9	6.7	11
31	9.0	---	26	21	---	32	---	8.3	---	5.7	6.4	---
TOTAL	491.7	394.8	832	848	681	617	417.6	311.4	202.0	252.4	233.4	179.8
MEAN	15.9	13.2	26.8	27.4	24.3	19.9	13.9	10.0	6.73	8.14	7.53	5.99
MAX	80	23	90	75	83	47	28	17	12	21	19	11
MIN	8.6	8.7	12	17	13	13	9.4	6.9	4.5	3.6	4.8	4.3
CFSM	.57	.47	.96	.98	.87	.71	.50	.36	.24	.29	.27	.21
IN.	.65	.52	1.11	1.13	.90	.82	.55	.41	.27	.34	.31	.24
CAL YR 1989	TOTAL	6249.6	MEAN	17.1	MAX	115	MIN	6.0	CFSM	.61	IN	8.30
WTR YR 1990	TOTAL	5461.1	MEAN	15.0	MAX	90	MIN	3.6	CFSM	.54	IN	7.26

SAVANNAH RIVER BASIN

02197830 BRIER CREEK NEAR WAYNESBORO, GA.

LOCATION.--Lat 33°07'05", long 81°57'50", Burke County, Hydrologic Unit 03060108, near left bank on downstream end of pier of bridge on State Highway 56, 1 mi upstream from McIntosh Creek, and 3.8 mi northeast of Waynesboro.

DRAINAGE AREA.--473 mi².

PERIOD OF RECORD.--July 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 173.78 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--21 years, 440 ft³/s, 12.63 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,800 ft³/s, Mar. 15, 1971, gage height, 12.28 ft; minimum daily discharge, 45 ft³/s, July 9, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 5	1300	*1,930	*7.85	No other peak greater than base discharge.			

Minimum daily discharge, 45 ft³/s, July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	417	176	304	430	530	499	500	237	147	60	75	101
2	776	181	303	446	520	454	529	290	139	58	81	99
3	708	206	302	492	563	442	575	355	140	55	122	114
4	1050	198	297	571	561	438	557	304	141	52	107	129
5	1830	189	279	792	514	445	514	237	144	50	86	120
6	1420	189	260	752	458	523	435	214	144	49	89	99
7	866	199	261	645	447	882	379	202	137	47	93	82
8	557	206	409	704	449	772	342	207	141	46	84	75
9	390	208	588	764	485	592	319	250	148	45	83	82
10	302	203	677	1020	464	531	315	335	135	57	84	87
11	258	204	799	1210	459	493	327	287	147	64	96	79
12	232	205	1490	1210	448	489	315	255	161	60	106	76
13	216	204	1740	929	443	510	303	267	165	56	107	81
14	206	206	1250	728	450	542	318	310	141	58	91	88
15	216	228	908	616	486	501	345	301	119	62	79	93
16	214	269	779	558	481	450	331	235	106	68	72	89
17	234	274	890	514	538	443	292	195	99	69	68	96
18	275	287	781	484	531	468	266	174	93	66	66	98
19	281	294	634	481	654	472	247	162	90	73	62	91
20	258	321	573	471	842	552	239	156	84	98	61	81
21	289	356	529	493	1030	843	232	152	79	131	60	74
22	315	330	519	508	874	882	223	147	76	184	71	70
23	331	323	539	508	977	636	217	147	81	218	100	68
24	309	302	605	542	892	510	211	144	86	189	121	66
25	268	288	585	656	707	451	206	136	88	175	132	68
26	235	302	502	776	630	412	197	127	89	170	119	67
27	215	323	431	642	628	388	186	120	79	155	113	66
28	203	365	402	578	576	374	183	120	70	132	120	62
29	195	357	388	607	---	383	216	127	65	107	114	61
30	185	312	367	656	---	433	209	135	63	92	101	62
31	179	---	366	594	---	485	---	150	---	83	111	---
TOTAL	13430	7705	18757	20377	16637	16295	9528	6478	3397	2829	2874	2524
MEAN	433	257	605	657	594	526	318	209	113	91.3	92.7	84.1
MAX	1830	365	1740	1210	1030	882	575	355	165	218	132	129
MIN	179	176	260	430	443	374	183	120	63	45	60	61
CFSM	.92	.54	1.28	1.39	1.26	1.11	.67	.44	.24	.19	.20	.18
IN.	1.06	.61	1.48	1.60	1.31	1.28	.75	.51	.27	.22	.23	.20
CAL YR 1989	TOTAL	133805	MEAN	367	MAX	1830	MIN	84	CFSM	.78	IN	10.52
WTR YR 1990	TOTAL	120831	MEAN	331	MAX	1830	MIN	45	CFSM	.70	IN	9.50

SAVANNAH RIVER BASIN

02198000 BRIER CREEK AT MILLHAVEN, GA.

LOCATION.--Lat 32 56'00", long 81 39'05", Screven County, Hydrologic Unit 03060108, near right bank on downstream side of pier of Girard-Millhaven Road bridge at Millhaven, 8.5 mi upstream from Beaverdam Creek.

DRAINAGE AREA.--646 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1936 to current year. Monthly discharges only for October 1936 to April 1937, published in WSP 1303.

REVISED RECORDS.--WSP 1383: Drainage area. WSP 1503: 1956.

GAGE.--Water-stage recorder. Datum of gage is 95.88 ft above National Geodetic Vertical Datum of 1929. Prior to June 7, 1950, nonrecording gage at site 200 ft downstream at same datum. June 7, 1950, to Apr. 30, 1951, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Records of chemical analyses for the 1970-79 water years are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--54 years, 631 ft³/s, 13.26 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,400 ft³/s, Aug. 16, 1940, gage height, 17.4 ft, from graph based on gage readings; minimum daily, 63 ft³/s, July 10, 1990.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1797, 25.1 ft in September or October 1929, from information by Georgia Department of Transportation; discharge, 64,000 ft³/s, by slope-conveyance study.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 15	1400	*1,890	*8.00

Minimum daily discharge, 63 ft³/s, July 10.

SAVANNAH RIVER BASIN

02198000 BRIER CREEK AT MILLHAVEN, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	566	240	450	549	697	709	539	270	162	82	119	146
2	510	239	441	560	715	692	574	251	171	79	116	140
3	548	239	400	569	664	645	573	247	169	75	126	130
4	698	244	372	576	614	581	551	267	164	72	132	122
5	890	258	362	573	625	539	571	309	161	70	147	127
6	802	263	356	627	645	515	589	347	155	69	137	133
7	1340	255	361	807	632	501	577	313	158	67	120	124
8	1550	249	423	1280	583	512	524	265	163	65	116	113
9	1200	259	541	1260	533	663	456	240	174	65	143	104
10	870	266	662	1050	524	933	409	247	185	63	154	106
11	635	272	771	966	549	829	411	272	178	64	144	108
12	474	266	824	986	566	684	395	306	159	81	130	105
13	378	259	899	1200	545	606	378	321	160	93	127	101
14	321	256	1210	1310	522	558	365	285	164	105	128	97
15	295	263	1830	1190	508	550	351	270	167	103	127	103
16	287	305	1560	965	522	568	343	281	151	95	119	109
17	304	315	1180	803	654	600	346	298	140	88	106	108
18	344	328	967	702	703	646	350	273	133	95	99	101
19	359	349	927	646	843	607	332	225	125	127	98	105
20	345	349	1020	605	858	574	309	197	115	125	93	110
21	358	349	938	588	792	539	290	184	108	131	91	105
22	353	347	814	603	876	533	273	180	102	202	123	96
23	327	399	711	592	1110	646	265	176	96	191	223	91
24	329	453	664	596	1140	896	258	167	96	197	194	90
25	345	455	640	597	1030	834	245	168	101	259	220	88
26	357	436	640	641	1060	649	239	165	99	353	189	86
27	344	409	691	684	915	540	231	154	99	254	171	85
28	317	381	678	815	770	479	225	155	97	210	154	86
29	285	391	615	842	---	480	284	194	92	183	144	85
30	264	421	548	727	---	485	288	190	85	155	141	85
31	251	---	518	673	---	496	---	169	---	137	158	---
TOTAL	16246	9515	23013	24582	20195	19089	11541	7386	4129	3955	4289	3189
MEAN	524	317	742	793	721	616	385	238	138	128	138	106
MAX	1550	455	1830	1310	1140	933	589	347	185	353	223	146
MIN	251	239	356	549	508	479	225	154	85	63	91	85
CFSM	.81	.49	1.15	1.23	1.12	.95	.60	.37	.21	.20	.21	.16
IN.	.94	.55	1.33	1.42	1.16	1.10	.66	.43	.24	.23	.25	.18
CAL YR 1989	TOTAL	162194	MEAN	444	MAX	2080	MIN	98	CFSM	.69	IN	9.34
WTR YR 1990	TOTAL	147129	MEAN	403	MAX	1830	MIN	63	CFSM	.62	IN	8.47

SAVANNAH RIVER BASIN

02198000 BRIER CREEK AT MILLHAVEN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1970 to June 1979, September 1990.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
SEP 19...	1145	104	178	179	7.4	7.1	21.5	31.0	7.9	88

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
SEP 19...	30	3.0	0.7	20	21	0.130	<0.030	0.080	3.4

SAVANNAH RIVER BASIN

02198100 BEAVERDAM CREEK NEAR SARDIS, GA.

LOCATION.--Lat 32°56'15", long 81°48'56", Burke-Jenkins County line, Hydrologic Unit 03060108, at downstream side of bridge on State Highway 23, 4.2 mi southwest of Sardis, and 0.8 mi downstream from Slough Branch.

DRAINAGE AREA.--30.8 mi².

PERIOD OF RECORD.--June 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is 186.48 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Nov. 15 to Jan. 4, and Aug. 3 to Sept. 14. Records good, except those for periods of estimated daily discharges, which are fair to poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 600 ft³/s, Mar. 1, 1987, gage height, 6.64 ft; minimum daily discharge, 2.6 ft³/s, Aug. 20, 1988, and July 6, 7, 10, and 11, 1990.

EXTREMES FOR CURRENT YEAR.-- Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 8	1400	*296	*5.74

Minimum daily discharge, 2.6 ft³/s, July 6, 7, 10, and 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	5.1	9.0	56	26	30	34	9.3	3.7	2.7	3.3	4.3
2	39	5.2	7.8	45	24	29	24	7.3	3.7	2.7	3.9	4.1
3	22	5.5	7.0	35	24	30	18	6.5	3.6	2.7	4.0	3.8
4	14	5.5	6.4	30	26	28	14	6.1	3.6	2.7	16	3.5
5	11	5.4	6.2	24	35	25	12	6.1	3.5	2.7	7.0	3.4
6	9.3	5.3	6.2	35	31	23	11	6.1	3.4	2.6	4.5	3.3
7	8.3	5.2	10	69	26	21	12	5.9	3.3	2.6	4.1	3.2
8	7.8	5.4	30	253	22	21	11	5.7	3.5	2.7	4.0	3.2
9	7.6	6.7	60	214	20	22	10	5.6	3.9	2.7	5.4	3.5
10	7.2	6.3	50	123	22	32	9.7	6.9	3.4	2.6	6.0	3.7
11	7.5	5.9	30	69	31	29	21	6.0	3.4	2.6	5.6	3.8
12	7.1	5.6	23	54	30	25	16	5.5	3.3	2.7	4.8	4.0
13	6.5	5.4	32	45	25	21	12	5.3	3.2	3.3	4.3	3.5
14	6.4	5.2	28	38	20	19	11	5.0	3.2	3.2	4.0	3.1
15	6.5	6.2	22	36	18	17	10	4.8	3.1	2.9	3.7	3.1
16	6.3	11	18	35	34	17	9.6	4.5	3.6	2.8	3.6	3.0
17	6.2	10	16	34	105	31	8.6	4.5	3.4	2.7	3.6	3.0
18	8.7	8.6	15	34	75	60	8.1	4.4	3.2	5.2	4.4	3.0
19	13	7.2	20	35	157	37	7.8	4.2	3.1	4.8	3.6	3.0
20	9.2	6.6	26	32	130	26	7.7	4.0	3.1	4.4	3.3	3.0
21	7.6	6.2	22	42	77	19	7.5	4.0	3.0	4.1	3.5	3.0
22	6.9	6.2	18	51	55	17	7.4	4.0	2.9	4.8	4.0	3.0
23	6.2	10	14	43	79	15	7.1	3.8	2.9	4.7	5.0	3.0
24	5.9	11	13	33	63	14	6.9	3.6	2.9	4.1	5.4	3.0
25	5.7	8.0	12	31	46	13	6.6	3.6	2.9	3.9	5.0	3.0
26	5.4	7.2	13	52	35	13	6.5	3.6	2.8	3.9	4.4	3.0
27	5.2	7.4	12	43	31	12	6.3	3.6	2.9	3.7	4.0	2.9
28	5.1	9.0	12	36	30	12	9.5	4.6	2.8	3.6	3.7	2.9
29	5.1	17	11	31	—	18	30	4.7	2.8	3.5	3.7	3.0
30	5.0	12	11	29	—	22	15	4.0	2.8	3.4	4.0	3.1
31	5.1	—	30	27	—	37	—	3.7	—	3.3	4.7	—
TOTAL	276.8	221.3	590.6	1714	1297	735	370.3	156.9	96.9	104.3	146.5	98.4
MEAN	8.93	7.38	19.1	55.3	46.3	23.7	12.3	5.06	3.23	3.36	4.73	3.28
MAX	39	17	60	253	157	60	34	9.3	3.9	5.2	16	4.3
MIN	5.0	5.1	6.2	24	18	12	6.3	3.6	2.8	2.6	3.3	2.9
CFSM	.29	.24	.62	1.80	1.50	.77	.40	.16	.11	.11	.15	.11
IN.	.33	.27	.71	2.07	1.57	.89	.45	.19	.12	.13	.18	.12
CAL YR 1989	TOTAL	5273.2	MEAN	14.4	MAX	236	MIN	3.3	CFSM	.47	IN	6.37
WTR YR 1990	TOTAL	5808.0	MEAN	15.9	MAX	253	MIN	2.6	CFSM	.52	IN	7.01

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.
(National stream-quality accounting network station)
(Radiochemical program station)
(Tritium network)

LOCATION.--Lat 32°31'30", long 81°15'45", Effingham County, Ga.-Jasper County, S.C., Hydrologic Unit 03060109, on downstream side of center pier of drawspan of bridge on Seaboard Coast Line Railroad, 3.0 mi north of Clio, and at mile 60.9.
 DRAINAGE AREA.--9,850 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to September 1933, October 1937 to current year. Monthly discharge only for some periods, published in WSP 1303. Gage-height records collected at same site 1921-43 by National Weather Service (unpublished prior to 1933).

REVISED RECORDS.--WSP 1112: 1940.

GAGE.--Data collection platform. Datum of gage is 13.39 ft, National Geodetic Vertical Datum of 1929. Prior to Jan. 31, 1933, nonrecording gage at same site and at datum 4.00 ft higher. Jan. 31, 1933 to June 12, 1945, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 18, 19, 23, Mar. 27, June 10, 11, and July 7-10. Records good, except those for the period of estimated daily discharge, which are poor. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, Richard B. Russell Reservoir, and Thurmond Lake. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, 02189004, and 02194500).

AVERAGE DISCHARGE.--57 years, 11,720 ft³/s, 16.17 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 270,000 ft³/s, Oct. 6, 1929, gage height, 29.7 ft, present datum (from information by U.S. Army Corps of Engineers), from rating curve extended above 120,000 ft³/s; minimum daily discharge, 1,950 ft³/s, Sept. 27, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39,400 ft³/s, Mar. 5, gage height, 16.70 ft; minimum daily discharge, 5,700 ft³/s, Sept. 22.

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	8620	8900	9040	22300	13300	35900	37300	7900	16300	6380	6260	11500		
2	8190	7500	10300	22200	13600	35900	34700	7360	15400	6010	7400	12000		
3	8000	8330	10700	21900	14200	36600	31700	7740	14900	5780	8210	12400		
4	9490	9130	10300	20900	14800	38000	29000	8760	14400	5790	8650	12500		
5	11500	9880	8690	19100	15400	39200	26000	9270	13600	6270	8950	11100		
6	12600	10100	7410	17400	15900	39000	22200	8800	11200	6480	8470	9730		
7	13500	8600	8660	16700	16000	37200	18000	7790	8640	6550	7020	9070		
8	14200	6670	10000	16800	15500	34900	14400	7540	7450	7680	6410	9330		
9	14800	6810	11200	16400	14900	32800	11000	8150	7420	7160	7250	10400		
10	15500	7850	12000	15700	14900	31300	8930	9230	7180	6500	8350	11300		
11	16200	8130	12900	15100	15200	30200	7730	9520	7700	6060	9110	11300		
12	17000	7940	13800	15000	15600	29600	8440	9260	7990	7060	9450	9370		
13	18200	7710	14700	15000	16000	29400	10200	9050	7560	8230	8540	7270		
14	19400	6590	15500	14500	16300	29500	11300	9840	6960	8720	6980	6360		
15	20600	5910	16200	13100	16600	29600	11900	10300	6450	8560	6560	6060		
16	21300	5970	17100	11100	16800	29600	12000	9510	6520	7390	7600	6020		
17	21300	6320	18100	9530	17200	29600	11100	9650	7420	6330	8450	6230		
18	20700	6830	19500	10300	17500	29900	8570	10900	7390	5980	8710	6330		
19	18900	7360	21200	11800	18000	30200	8500	11900	6660	6010	8560	6050		
20	17000	7040	22900	12800	18800	30400	10500	12500	6450	6940	8380	5790		
21	16000	6290	23500	13500	19900	30400	11700	13100	6980	7970	7210	5720		
22	15700	6090	24000	14000	21900	30200	12200	13700	7790	7400	6900	5700		
23	15600	6230	24000	13900	24600	29900	12200	14300	8310	6760	8120	6060		
24	15800	6010	23700	12000	27300	29900	10400	14800	8380	6690	9320	6680		
25	15700	5930	23600	11400	29400	31100	7800	15300	7270	6880	10200	6130		
26	14800	6030	23200	12200	31700	33100	8130	15700	6200	7900	10600	5880		
27	13700	5960	23000	12900	34200	34500	8930	16100	6100	8670	9960	6290		
28	13300	5830	22700	13400	35600	36500	9390	16600	6890	8750	8330	6550		
29	13300	6130	22500	13900	---	37300	9630	17100	7430	8400	7620	6630		
30	13300	7300	22400	14100	---	38300	8910	17300	6920	7410	9190	6690		
31	12200	---	22300	13600	---	38800	---	17100	---	6340	10600	---		
TOTAL	466400	215370	525100	462530	541100	1028800	432760	356070	259860	219050	257360	242440		
MEAN	15050	7179	16940	14920	19320	33190	14430	11490	8662	7066	8302	8081		
MAX	21300	10100	24000	22300	35600	39200	37300	17300	16300	8750	10600	12500		
MIN	8000	5830	7410	9530	13300	29400	7730	7360	6100	5780	6260	5700		
CAL YR 1989	TOTAL	3221200	MEAN	8825	MAX	24000	MIN	4960	MEAN†	10928	CFSM†	1.11	IN†	15.07
WTR YR 1990	TOTAL	5006840	MEAN	13720	MAX	39200	MIN	5700	MEAN†	13015	CFSM†	1.32	IN†	17.94

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, HARTWELL LAKE, RICHARD B. RUSSELL RESERVOIR, AND THURMOND LAKE.

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1938 to April 1939, October 1964 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1974 to July 1977.

WATER TEMPERATURE: May 1938 to April 1939, January 1974 to July 1977.

REMARKS.--Laboratory analyses with the analyzing agency codes 80020, 84213, and 85113 are performed by the U.S. Geological Survey. Laboratory analyses with the analyzing agency code 81341 are performed by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, Dissolved Oxygen, and Total Alkalinity are by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 110 microsiemens June 14, 1977; minimum daily, 42 microsiemens July 5, 1974.

WATER TEMPERATURE: Maximum daily, 27°C Aug. 23, 1975, July 9, 13, 1977; minimum daily recorded 4.0°C Jan. 22-24, 26, 30, Feb. 1.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)
OCT							
04...	0655	81341	9030	121	119	7.2	7.0
NOV							
06...	0725	81341	9990	93	92	7.1	6.9
DEC							
06...	0800	81341	7220	98	97	7.0	6.9
28...	1430	80020	22700	67	70	7.1	7.1
JAN							
10...	0800	81341	15800	80	86	6.9	7.0
FEB							
14...	0800	81341	16300	79	79	7.1	7.1
23...	1140	80020	24600	59	68	7.1	7.5
MAR							
07...	0740	81341	37700	70	73	7.2	6.8
APR							
04...	0640	81341	29600	86	88	7.2	7.0
11...	0945	80020	7710	101	107	7.2	7.5
MAY							
09...	0700	81341	7870	100	105	7.2	7.1
JUN							
06...	0610	81341	11900	85	86	6.9	7.0
JUL							
17...	0700	81341	6460	77	80	7.2	7.1
AUG							
08...	0545	81341	6370	108	107	7.3	7.2
SEP							
18...	0615	81341	6450	98	95	7.3	7.2
18...	1000	80020	6450	98	101	7.2	7.3

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	ALKA- LINITY WAT.DIS FET LAB CACO3 (MG/L)
OCT 04...	81341	20.5	19.0	6.8	75	--	23	--
NOV 06...	81341	16.5	16.5	7.2	74	--	20	--
DEC 06...	81341	10.0	8.0	9.5	84	--	20	--
28...	80020	6.5	--	11.0	89	22	--	17
JAN 10...	81341	10.5	8.0	9.8	88	--	18	--
FEB 14...	81341	12.5	12.0	6.9	64	--	19	--
23...	80020	14.5	--	7.5	74	22	--	18
MAR 07...	81341	13.5	11.0	6.8	64	--	16	--
APR 04...	81341	15.0	8.0	5.2	52	--	18	--
11...	80020	17.0	--	7.3	76	30	--	24
MAY 09...	81341	19.5	20.5	5.4	59	--	20	--
JUN 06...	81341	21.0	21.0	4.8	54	--	19	--
JUL 17...	81341	25.5	28.0	6.0	73	--	18	--
AUG 08...	81341	23.0	23.0	6.8	79	--	19	--
SEP 18...	81341	25.0	17.0	6.8	82	--	23	--
18...	80020	25.0	--	6.9	83	21	--	25

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	AGENCY ANALYZING SAMPLE (CODE NUMBER)	COLOR (PLAT- INUM- COBALT UNITS)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CaCO3)	HARD- NESS NONCARB WH DIS- SOLVED MG/L AS CaCO3	CALCIUM DIS- SOLVED (MG/L AS Ca)
OCT 04...	81341	60	16	21	1.3	80	--	--	--	--	--
NOV 06...	81341	40	22	24	1.2	40	--	--	--	--	--
DEC 06...	81341	20	25	9.0	1.7	80	--	--	--	--	--
28...	80020	--	--	3.7	--	--	K75	190	17	0	4.3
JAN 10...	81341	50	15	13	0.7	130	--	--	--	--	--
FEB 14...	81341	25	10	10	0.8	50	--	--	--	--	--
23...	80020	--	--	9.0	--	--	K80	600	17	1	4.5
MAR 07...	81341	--	16	9.0	0.7	--	--	--	--	--	--
APR 04...	81341	40	43	11	0.7	20	--	--	--	--	--
11...	80020	--	--	20	--	--	60	660	24	0	7.0
MAY 09...	81341	40	10	19	0.6	90	--	--	--	--	--
JUN 06...	81341	25	20	12	1.0	<20	--	--	--	--	--
JUL 17...	81341	20	--	13	0.7	--	--	--	--	--	--
AUG 08...	81341	30	--	12	1.2	20	--	--	--	--	--
SEP 18...	81341	10	--	10	0.4	50	--	--	--	--	--
18...	80020	--	--	9.4	--	--	K30	K50	19	0	5.3

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO ₄)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO ₂)
DEC 28...	80020	1.4	7.2	45	0.8	1.8	7.0	5.3	0.10	8.9
FEB 23...	80020	1.3	5.9	40	0.6	1.8	5.4	5.1	0.40	7.3
APR 11...	80020	1.6	11	47	1	2.0	9.7	9.2	0.20	8.7
SEP 18...	80020	1.3	12	56	1	1.8	8.9	11	0.20	8.9

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 04...	81341	--	--	--	--	12	0.130	--	--	--
NOV 06...	81341	--	--	--	--	28	0.150	--	--	3.3
DEC 06...	81341	--	--	--	--	13	0.080	--	--	4.3
28...	80020	56	48	3430	0.08	--	0.050	0.030	0.030	--
JAN 10...	81341	--	--	--	--	12	0.100	--	--	7.1
FEB 14...	81341	--	--	--	--	18	0.100	--	--	3.6
23...	80020	42	44	2790	0.06	--	0.050	0.030	0.030	--
MAR 07...	81341	--	--	--	--	7	0.120	--	--	3.9
APR 04...	81341	--	--	--	--	8	0.060	--	--	5.9
11...	80020	72	67	1500	0.10	--	0.080	0.050	0.040	--
MAY 09...	81341	--	--	--	--	22	0.180	--	--	3.2
JUN 06...	81341	--	--	--	--	20	0.100	--	--	4.1
JUL 17...	81341	--	--	--	--	13	0.090	--	--	5.4
AUG 08...	81341	--	--	--	--	18	0.050	--	--	5.2
SEP 18...	81341	--	--	--	--	14	0.160	--	--	3.2
18...	80020	65	66	1130	0.09	--	0.080	<0.010	0.060	--

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

		AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)			
	DATE											
	OCT 04...	81341	--	0.300	--	<0.030	--	--	0.70			
	NOV 06...	81341	--	0.310	--	0.030	--	0.37	0.40			
	DEC 06...	81341	--	0.250	--	<0.030	--	--	--			
	28...	80020	<0.010	--	0.210	0.030	0.020	0.37	0.40			
	JAN 10...	81341	--	0.210	--	0.100	--	0.30	0.40			
	FEB 14...	81341	--	0.250	--	<0.030	--	--	0.10			
	23...	80020	<0.010	--	0.160	0.030	0.020	0.37	0.40			
	MAR 07...	81341	--	0.100	--	0.040	--	0.16	0.20			
	APR 04...	81341	--	0.300	--	0.060	--	0.24	0.30			
	11...	80020	0.010	--	0.400	0.110	0.100	0.79	0.90			
	MAY 09...	81341	--	0.340	--	0.050	--	0.26	0.31			
	JUN 06...	81341	--	0.260	--	<0.030	--	--	0.30			
	JUL 17...	81341	--	0.280	--	<0.030	--	--	--			
	AUG 08...	81341	--	0.260	--	<0.030	--	--	--			
	SEP 18...	81341	--	0.300	--	0.030	--	--	--			
	18...	80020	<0.010	--	0.300	0.030	0.010	0.27	0.30			
	DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
	DEC 28...	80020	70	<1	45	<0.5	<1.0	<1	<3	<10	150	<10
	FEB 23...	80020	60	<1	34	<0.5	<1.0	<5	<3	<10	280	<10
	APR 11...	80020	90	<1	69	0.6	<1.0	1	<3	1	540	<1
	SEP 18...	80020	40	<1	22	<0.5	<1.0	<1	<3	1	110	<1
	DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
	DEC 28...	80020	<4	13	1.0	<10	<10	<1	<1.0	28	<6	11
	FEB 23...	80020	<4	13	0.2	<10	10	<1	<1.0	32	<6	15
	APR 11...	80020	<4	25	<0.1	<10	1	<1	<1.0	42	<6	11
	SEP 18...	80020	6	9	<0.1	<10	<1	<1	<1.0	32	<6	8

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC 28...	1435	84213	22700	6.5	7	429	100
SEP 18...	1005	84213	6450	25.0	21	366	87

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TRITIUM IN WATER MOLE- CULES (TU)	TRITIUM WATER MOLE- CULES COUNT ERROR (TU)
OCT 04...	0656	85113	9030	1040	17.0
NOV 06...	0726	85113	9990	579	12.0
DEC 06...	0801	85113	7220	934	16.0
JAN 10...	0801	85113	15800	756	14.0
FEB 14...	0801	85113	16300	600	12.0
MAR 07...	0741	85113	37700	262	11.0
APR 04...	0641	85113	29600	232	10.0
MAY 09...	0701	85113	7870	731	11.0
JUN 06...	0611	85113	11900	473	9.0
JUL 17...	0701	85113	6460	449	9.0
AUG 08...	0546	85113	6370	818	11.0
SEP 18...	0616	85113	6450	584	10.0

SAVANNAH RIVER BASIN

02198690 EBENEZER CREEK AT SPRINGFIELD, GA.

LOCATION.--Lat 32°21'56", long 81°17'51", Effington County, Hydrologic Unit 03060109, at downstream side of bridge pier on Stillwell Road, 0.5 mi east of Springfield, and 3 mi upstream from Little Ebenezer Creek.

DRAINAGE AREA.--181 mi².

PERIOD OF RECORD.--March 1990 to September 1990.

GAGE.--Water-stage recorder. Elevation of gage is 20 ft above National Geodetic Vertical Datum of 1929 (from topographi map). Prior to April 25, 1990, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: March 1, 16, 17, 19, 20, 24-27, March 30 to April 2, May 4-8, 16, and 17. Records good, except those prior to April 25 and those less than 10 ft³/s, which are fair, and those for the periods of estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed during period March to September, 423 ft³/s, Mar. 1, gage height, 9.27 ft; minimum daily discharge, 0.01 ft³/s, July 6-15 and July 28-31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						420	180	13	6.3	.04	.09	1.8
2						392	180	10	15	.02	.18	1.1
3						308	171	8.1	15	.02	.12	.93
4						248	142	5.2	9.7	.02	.08	7.6
5						202	113	4.4	7.0	.02	.06	2.8
6						145	83	3.4	4.8	.01	.05	1.9
7						124	57	2.2	2.9	.01	.05	1.1
8						115	46	1.7	1.8	.01	.65	.70
9						109	38	1.5	1.3	.01	2.0	.49
10						99	31	1.9	.89	.01	.82	.32
11						92	26	1.8	6.8	.01	.89	.19
12						86	23	1.9	9.8	.01	1.5	.17
13						83	20	2.0	15	.01	4.1	.15
14						78	18	2.6	13	.01	5.1	.12
15						69	17	2.3	8.4	.01	2.9	.11
16						66	16	1.8	7.8	.02	2.9	.08
17						88	15	1.5	9.4	.02	4.6	1.2
18						110	13	1.3	9.8	.07	2.7	.34
19						120	11	.73	10	.13	1.5	.21
20						110	8.7	.40	11	.46	.88	.08
21						104	7.6	.27	9.5	.44	.60	.06
22						87	7.6	.60	5.9	.09	.54	.07
23						69	7.1	.43	3.1	.04	15	.07
24						56	7.1	.49	1.8	.03	20	.08
25						48	8.9	.34	1.3	.03	14	.07
26						42	13	.24	.74	.03	18	.06
27						36	10	.18	.42	.02	31	.06
28						34	7.6	1.6	.24	.01	18	.06
29						32	13	5.0	.11	.01	10	.06
30						35	14	2.5	.06	.01	5.9	.07
31						120	---	11	---	.01	3.4	---
TOTAL						3727	1304.6	90.38	188.86	1.64	167.61	22.05
MEAN						120	43.5	2.92	6.30	.053	5.41	.74
MAX						420	180	13	15	.46	31	7.6
MIN						32	7.1	.18	.06	.01	.05	.06
CFSM						.66	.24	.02	.04	.000	.03	.004
IN.						.77	.27	.02	.04	.00	.03	.00

SAVANNAH RIVER BASIN

02198840 SAVANNAH RIVER NEAR PORT WENTWORTH, GA.

LOCATION.--Lat 32°14'08", long 81°09'05", Effingham County, Hydrologic Unit 03060109, at right downstream fender of bridge on Interstate 95, 1 mi downstream from Abercorn Creek, and 6.1 mi north of Port Wentworth.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--June 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 6.51 ft, Mar. 27, 1990; minimum elevation recorded, -5.24 ft, Apr. 7, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 6.51 ft, Mar. 27; minimum elevation recorded, -4.22 ft, Apr. 26.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	5.09	-1.76	4.90	-2.00	4.84	-2.60	4.58	-1.93	4.80	-2.52	5.73	1.45
2	4.74	-2.26	4.94	-2.10	4.71	-2.59	4.80	-1.53	4.72	-2.58	5.96	1.32
3	4.66	-2.28	4.80	-1.70	3.74	-3.48	4.59	-1.48	4.50	-2.48	5.66	.78
4	4.71	-2.05	4.72	-1.74	4.42	-2.58	4.48	-1.63	4.75	-2.93	5.28	1.43
5	4.76	-1.31	4.96	-1.49	4.29	-3.13	4.61	-1.78	4.27	-2.72	5.33	1.51
6	4.32	-1.49	4.73	-1.82	4.51	-3.01	4.91	-1.78	5.04	-2.08	5.50	1.59
7	4.22	-2.02	4.60	-2.40	4.50	-3.21	5.29	-1.73	5.31	-2.44	5.46	1.32
8	4.43	-1.68	4.73	-2.77	5.12	-2.63	5.72	-1.11	5.35	-2.64	5.95	2.35
9	4.94	-0.81	5.00	-2.72	5.65	-2.68	5.35	-1.90	5.31	-2.21	5.71	1.80
10	5.06	-0.85	5.25	-3.65	5.51	-2.86	5.21	-1.84	5.27	-2.24	5.32	.85
11	5.37	-1.18	5.25	-3.52	5.62	-2.76	5.48	-1.82	5.24	-2.31	5.32	.83
12	5.47	-1.23	5.43	-3.31	5.79	-2.67	5.11	-2.09	4.91	-2.09	5.13	.35
13	5.56	-1.28	5.62	-3.55	5.30	-2.50	5.00	-2.17	4.69	-2.13	5.00	-0.03
14	5.86	-1.64	5.67	-3.17	5.23	-2.92	5.07	-1.81	4.53	-2.19	5.16	-0.06
15	6.01	-1.35	5.49	-3.37	5.45	-2.76	4.85	-1.80	4.30	-1.93	5.09	.06
16	5.93	-1.52	4.56	-3.86	4.91	-2.69	4.43	-2.14	3.94	-2.12	4.99	.03
17	5.91	-1.55	4.88	-4.07	5.01	-1.82	4.28	-2.36	3.36	-1.90	4.78	-0.18
18	5.67	-1.51	4.50	-3.31	4.64	-1.64	3.91	-2.21	4.10	-0.42	4.27	-0.11
19	5.05	-1.32	4.42	-3.03	4.66	-0.94	3.64	-2.20	4.13	-1.31	4.05	.22
20	4.64	-1.92	4.05	-3.17	4.36	-1.34	4.19	-1.65	4.24	-0.80	4.07	-0.26
21	4.80	-1.56	3.89	-3.52	4.44	-0.92	3.93	-2.70	4.93	-0.44	4.55	.22
22	4.84	-1.62	4.26	-2.65	4.32	-0.57	3.45	-2.72	5.02	-1.26	4.67	-0.01
23	4.84	-1.03	3.84	-3.26	4.83	-0.58	4.32	-2.66	4.86	-1.71	4.90	-0.19
24	4.77	-1.01	4.29	-2.68	4.87	-0.74	4.79	-2.36	4.67	-2.47	5.33	-0.40
25	4.95	-1.11	4.73	-2.61	5.14	-0.72	4.95	-2.51	5.27	-1.92	5.65	-0.06
26	5.24	-0.97	4.87	-2.70	4.55	-1.20	4.24	-3.37	5.73	-0.19	6.25	.16
27	5.45	-0.86	4.88	-2.83	5.06	-1.40	4.80	-3.41	5.80	.62	6.51	1.40
28	5.61	-0.77	4.89	-2.91	4.70	-1.47	4.97	-2.90	5.72	.68	6.50	1.83
29	5.57	-0.98	4.29	-3.36	4.94	-1.31	4.96	-2.66	---	---	6.44	1.41
30	5.57	-0.64	4.76	-2.45	4.99	-1.45	4.90	-2.89	---	---	6.09	1.26
31	5.33	-1.41	---	---	5.03	-1.28	4.79	-2.76	---	---	5.87	1.18
MONTH	6.01	-2.28	5.67	-4.07	5.79	-3.48	5.72	-3.41	5.80	-2.93	6.51	-0.40

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

SAVANNAH RIVER BASIN

02198840 SAVANNAH RIVER NEAR PORT WENTWORTH, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1986 to current year.

INSTRUMENTATION.--Water-quality monitor. Specific Conductance recorded at 15-minute intervals.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 550 microsiemens Dec. 1, 1987; minimum recorded, 40 microsiemens on many days in Jan., Feb., Mar., 1987, and Mar., Apr. 1990.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 200 microsiemens June 20; minimum, 40 microsiemens, on several days in March and April.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	110	90	100	80	120	110	70	60	110	80	70	60
2	110	100	120	90	120	100	70	60	100	80	70	60
3	110	90	140	110	100	90	70	60	90	70	70	60
4	120	90	150	110	100	90	80	60	80	70	70	60
5	120	100	120	100	110	90	80	70	80	70	70	50
6	110	80	110	90	110	100	80	70	80	70	70	60
7	90	70	100	90	130	100	80	70	80	70	70	60
8	90	70	110	90	130	100	80	60	90	70	70	60
9	90	70	120	100	110	90	80	60	90	70	70	60
10	80	70	140	120	100	80	80	70	80	60	70	60
11	80	70	140	100	100	80	90	70	70	60	70	60
12	80	70	120	100	90	80	90	70	70	60	70	60
13	90	70	120	90	90	70	80	70	70	60	70	60
14	90	70	120	90	90	70	90	70	80	70	70	60
15	90	70	120	100	90	70	90	80	80	70	70	60
16	90	70	130	100	90	70	90	80	80	70	70	60
17	90	70	130	110	90	70	90	80	80	70	70	60
18	90	80	140	120	80	70	100	80	70	60	70	60
19	100	80	140	120	80	70	100	80	70	60	70	60
20	100	90	130	120	80	70	80	60	70	60	70	60
21	100	80	130	110	80	70	70	60	70	60	70	50
22	100	80	130	110	80	70	70	60	80	60	70	50
23	90	70	130	120	80	70	80	60	70	60	70	60
24	90	70	120	110	80	70	80	60	70	60	70	60
25	90	70	130	110	80	70	90	70	70	60	70	60
26	110	70	130	120	80	50	100	70	70	60	60	50
27	110	70	130	120	70	50	80	70	70	60	60	50
28	110	70	130	120	70	50	80	70	70	60	50	40
29	100	70	130	120	70	60	80	70	---	---	50	40
30	100	80	130	120	70	60	90	70	---	---	50	40
31	100	80	---	---	70	60	90	80	---	---	50	40
MONTH	120	70	150	80	130	50	100	60	110	60	70	40

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

SAVANNAH RIVER BASIN

02198920 SAVANNAH (FRONT) RIVER AT U.S. 17 AT PORT WENTWORTH, GA.

LOCATION.--Lat 32°09'57", long 81°09'14", Chatham County, Hydrologic Unit 03060109, at right downstream fender of bridge on U.S. 17, 1.4 mi north of Port Wentworth.

PERIOD OF RECORD.--October 1987 to current year.

GAGE-HEIGHT RECORDS

GAGE.--Water-stage recorder. Datum of gage is 3.39 ft below National Geodetic Vertical Datum of 1929, at mean low water (levels by U.S. Army Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height recorded, 10.16 ft Mar. 27, 1990; minimum gage height recorded, -3.39 ft Apr. 7, 1989, but was lower during the day when the stage went below the recordable range of the gage.

EXTREMES FOR CURRENT YEAR.--Maximum gage height recorded, 10.16 ft, Mar. 27; minimum gage height recorded, -2.43 ft, Feb. 24.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.68	1.03	8.49	.62	8.41	.47	7.64	-0.85	8.35	-0.40	9.37	1.14
2	8.24	.60	8.55	.85	8.29	.16	8.27	-0.19	8.25	-0.34	9.48	1.05
3	8.24	.75	8.39	1.50	7.19	-0.79	8.02	-0.27	8.01	.02	9.09	.71
4	8.31	1.06	8.30	1.58	7.87	.06	7.87	-0.27	8.23	-0.76	8.61	1.99
5	8.36	1.88	8.57	1.77	7.72	-0.26	8.04	-0.39	7.65	.49	8.66	2.09
6	7.86	1.57	8.31	1.27	7.98	.00	8.41	-0.07	8.61	.40	8.90	1.32
7	7.72	.96	8.10	.70	7.98	-0.22	8.86	.39	8.93	-0.38	8.81	1.39
8	7.99	1.30	8.22	.33	8.73	.01	9.35	-0.14	8.95	-1.03	9.42	2.77
9	8.54	2.04	8.56	-0.95	9.35	-0.66	8.94	-1.20	8.91	-0.60	9.14	1.41
10	8.67	1.51	8.89	-1.03	9.19	-0.87	8.76	-1.12	8.82	-0.57	8.72	.46
11	9.00	1.33	8.90	-1.09	9.29	-1.07	9.06	-1.14	8.84	-0.62	8.73	.51
12	9.10	.82	9.12	-1.10	9.54	-1.21	8.62	-1.41	8.44	-0.21	8.52	.38
13	9.20	.34	9.38	-1.40	8.91	-1.27	8.50	-0.46	8.09	-0.05	8.39	.30
14	9.58	-0.56	9.46	-0.93	8.80	-1.55	8.61	-0.15	7.84	-0.03	8.61	.50
15	9.76	-0.56	9.23	-0.93	9.05	-1.14	8.39	.10	7.70	.38	8.40	.99
16	9.64	-0.82	7.87	-0.87	8.48	-0.99	7.90	.11	7.39	.12	8.23	1.10
17	9.57	-0.75	8.43	-1.17	8.58	.42	7.73	.19	6.77	.43	8.03	.52
18	9.30	-0.40	8.00	-0.23	8.10	.33	7.39	.62	7.57	2.44	7.47	.89
19	8.57	-0.12	7.89	.17	8.14	1.04	7.15	.73	7.59	1.33	7.21	1.67
20	8.05	-0.77	7.53	-0.01	7.77	.83	7.73	1.43	7.68	1.96	7.24	.83
21	8.25	.41	7.33	-0.31	7.85	1.25	7.44	.10	8.49	1.26	7.86	1.67
22	8.32	.63	7.70	.61	7.69	1.62	6.88	-0.01	8.56	.78	7.98	.93
23	8.36	1.50	7.38	-0.01	8.36	1.18	7.83	.05	8.32	.06	8.27	.19
24	8.30	1.37	7.84	1.03	8.33	1.10	8.30	.26	8.01	-2.43	8.83	-0.22
25	8.51	1.42	8.28	.71	8.66	1.05	8.51	-0.08	8.79	-1.79	9.21	-0.54
26	8.88	1.49	8.47	.50	7.93	-0.04	7.62	-1.33	9.30	.62	9.88	-0.53
27	9.09	1.57	8.45	.27	8.57	-0.29	8.32	-1.48	9.35	.31	10.16	.49
28	9.26	1.28	8.45	.13	8.08	-0.74	8.49	-0.95	9.24	.09	10.10	.78
29	9.22	1.60	7.78	-0.37	8.42	-0.20	8.50	-0.84	--	--	9.62	-0.05
30	9.25	1.61	8.36	.59	8.48	-0.31	8.41	-1.07	--	--	9.48	.18
31	8.96	.76	--	--	8.56	-0.15	8.27	-1.00	--	--	9.34	.10
MONTH	9.76	-0.82	9.46	-1.40	9.54	-1.55	9.35	-1.48	9.35	-2.43	10.16	-0.54

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

SAVANNAH RIVER BASIN

02198920 SAVANNAH (FRONT) RIVER AT U.S. 17 AT PORT WENTWORTH, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1987 to current year.

INSTRUMENTATION.--Water-quality monitor. Specific Conductance recorded at 15-minute intervals.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 23,400 microsiemens July 15, 1989; minimum recorded, 40 microsiemens Apr. 2, 1990.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 18,500 microsiemens Apr. 19; minimum recorded, 40 microsiemens Apr. 2.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3230	110	930	90	7340	130	100	60	1720	80	350	60
2	2720	90	2680	100	6030	110	730	60	1600	70	100	60
3	2840	100	3480	120	5150	90	90	60	1570	70	70	50
4	3150	110	4650	140	4470	90	110	70	1720	70	70	50
5	3400	110	5710	120	4090	100	90	70	2070	70	60	50
6	3240	100	5140	110	4630	100	780	70	2200	70	100	50
7	2810	80	4960	100	4710	100	1030	70	2650	70	100	50
8	4050	80	5850	100	5430	110	1070	60	2810	70	80	60
9	5200	80	6620	120	5110	100	1510	60	2410	80	90	60
10	4740	80	7560	120	970	90	1110	60	2090	70	90	60
11	4580	80	7530	140	350	90	1220	60	1720	70	80	60
12	4140	90	7310	130	260	80	1190	70	1600	60	110	60
13	3510	90	7360	120	150	80	1330	70	1390	70	80	50
14	1460	90	9420	130	120	80	1290	70	1060	70	90	60
15	430	80	6890	130	130	80	1350	70	610	70	80	60
16	160	80	5550	130	120	80	1190	80	220	70	70	60
17	160	80	5780	130	120	80	1150	70	170	60	100	60
18	150	90	5750	140	110	70	1620	80	90	60	70	60
19	700	90	5510	130	100	80	1790	80	140	60	70	60
20	680	100	5800	120	130	80	2590	70	120	60	70	60
21	950	90	5250	120	110	80	3310	70	1610	60	70	60
22	1270	90	7030	120	110	80	2380	70	1800	60	110	60
23	1640	90	7500	120	230	80	3240	70	1660	60	130	50
24	2160	90	7780	130	230	80	3410	70	1380	60	90	50
25	2580	90	7810	120	1050	80	3500	70	1560	60	90	60
26	740	90	8450	120	120	80	2970	80	1110	60	100	60
27	1430	100	8610	130	1520	60	2840	80	790	60	80	50
28	890	100	8280	130	360	60	3630	70	540	60	70	50
29	410	90	7640	130	800	60	2750	70	---	---	70	50
30	1410	100	7850	140	830	60	2790	80	---	---	110	50
31	470	90	---	---	760	60	2500	70	---	---	90	50
MONTH	5200	80	9420	90	7340	60	3630	60	2810	60	350	50

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

SAVANNAH RIVER BASIN

02198977 SAVANNAH RIVER AT BROAD STREET AT SAVANNAH, GA.

LOCATION.--Lat 32°05'02", long 81°05'45", Chatham County, Hydrologic Unit 03060109, at downstream side of docking facility at SEPCO Riverside Power Plant, located on River Street at the foot of West Broad Street, 0.4 mi northwest of U.S. Custom House at Savannah.

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3.46 ft below National Geodetic Vertical Datum of 1929, at low mean water, (levels by U.S. Army Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height recorded, 10.05 ft Mar. 23, 1990; minimum gage height recorded, -2.74 ft Apr. 7, 1989 and Feb. 24, 1990, but was lower during the day when the stage went below the recordable range of the gage.

EXTREMES FOR CURRENT YEAR.--Maximum gage height recorded, 10.05 ft, Mar. 23; minimum gage height recorded, -2.74 ft, Feb. 24, but was lower during the day when the stage went below the recordable range of the gage.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.34	.66	8.10	.46	8.03	.21	7.10	-1.24	7.99	-0.69	9.21	.08
2	7.87	.34	8.15	.68	7.84	-0.12	7.85	-0.56	7.84	-0.65	9.20	.12
3	7.79	.54	7.98	1.26	6.64	-1.22	7.59	-0.74	7.55	-0.20	8.80	.03
4	7.89	.88	7.85	1.41	7.37	-0.18	7.42	-0.64	7.78	-0.94	8.23	1.29
5	7.93	1.66	8.19	1.60	7.22	-0.55	7.60	-0.72	7.12	.30	8.30	1.44
6	7.34	1.42	7.91	1.06	7.50	-0.25	8.02	-0.37	8.21	-0.44	8.55	.65
7	7.19	.78	7.57	.52	7.46	-0.35	8.56	-0.17	8.60	-0.64	8.44	1.26
8	7.48	1.09	7.78	.13	8.35	-0.14	9.10	-1.38	8.65	-1.39	9.13	1.71
9	8.12	1.80	8.19	-1.28	9.10	-1.06	8.65	-1.78	8.60	-1.03	8.86	.36
10	8.27	1.21	8.62	-1.04	8.92	-1.17	8.44	-1.74	8.52	-1.04	8.37	-0.41
11	8.68	.46	8.60	-1.39	9.01	-1.34	8.81	-1.80	8.57	-1.07	8.44	-0.43
12	8.79	.30	8.86	-1.53	9.27	-1.56	8.29	-2.01	8.07	-0.69	8.22	-0.37
13	8.93	-0.30	9.16	-1.81	8.62	-1.63	8.15	-0.91	7.64	-0.41	7.99	-0.46
14	9.33	-1.03	9.27	-1.33	8.47	-1.90	8.25	-0.75	7.24	-0.33	8.25	-0.11
15	9.56	-1.10	9.08	-1.27	8.73	-1.45	8.03	-0.31	7.14	.11	7.98	.49
16	9.39	-1.35	7.55	-1.07	8.15	-1.24	7.42	-0.25	6.86	-0.13	7.60	.69
17	9.30	-1.26	8.08	-1.31	8.23	.14	7.24	-0.08	6.28	.25	7.51	.08
18	9.04	-0.78	7.55	-0.40	7.70	.13	6.95	.45	7.11	2.33	6.97	.47
19	8.21	-0.63	7.43	.02	7.76	.86	6.64	.60	7.09	1.20	6.79	1.38
20	7.50	-1.15	6.98	-0.19	7.15	.63	7.25	1.29	7.10	1.80	6.86	.57
21	7.75	.14	6.75	-0.45	7.34	.99	6.91	-0.02	8.08	.76	7.44	1.41
22	7.81	.43	7.23	.44	7.13	1.39	6.23	-0.16	8.14	.07	7.56	.51
23	7.91	1.28	6.85	-0.19	7.91	.86	7.25	.05	7.94	-0.26	7.85	-0.40
24	7.82	1.11	7.34	.62	7.84	.87	7.85	.08	7.43	---	8.46	-0.67
25	8.12	1.41	7.88	.55	8.24	.32	8.16	-0.34	8.45	-2.34	8.87	-1.18
26	8.52	1.30	8.09	.32	7.39	-0.44	7.09	-1.68	9.13	-0.18	9.66	-1.21
27	8.76	1.34	8.10	.07	8.18	-0.83	7.93	-1.80	9.12	-0.77	9.96	-0.36
28	8.95	.95	8.09	-0.11	7.61	-1.29	8.14	-1.31	8.98	-0.95	9.90	-0.09
29	8.94	1.43	7.34	-0.53	8.05	-0.70	8.22	-1.28	---	---	9.37	-0.93
30	8.94	1.29	7.94	.32	8.08	-0.76	8.04	-1.42	---	---	9.05	-0.58
31	8.69	.52	---	---	8.20	-0.79	7.96	-1.37	---	---	8.97	-0.56
MONTH	9.56	-1.35	9.27	-1.81	9.27	-1.90	9.10	-2.01	9.13	---	9.96	-1.21

SAVANNAH RIVER BASIN

021989784 LITTLE BACK RIVER ABOVE LUCKNOW CANAL NEAR LIMEHOUSE, S.C.

WATER-QUALITY RECORDS

LOCATION.--Lat 32°11'08", long 81°07'05", Jasper County, S.C., Hydrologic Unit 03060109, on a free-standing platform near the left bank, 300 ft upstream from the north control gate of Lucknow Canal, near the service road to the northern part of the Savannah National Wildlife Refuge, 1.3 mi north of the Refuge Headquarters, and 3.4 mi southwest of Limehouse, S.C.

INSTRUMENTATION.--Water-quality monitor. Specific Conductance recorded at 15-minute intervals.

PERIOD OF DAILY RECORD.--May 1990 to September 1990.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 10,500 microsiemens July 20; minimum recorded, 70 microsiemens May 30, 31, June 1, 4, Aug. 30.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

SAVANNAH RIVER BASIN

021989785 LUCKNOW CANAL NEAR LIMEHOUSE, S.C.

LOCATION.--Lat 32°08'32", long 81°05'54", Jasper County, S.C., Hydrologic Unit 03060109, at central gage at the south end of Lucknow Canal on one-way service road to the southern part of the Savannah National Wildlife Refuge accessed from U.S. Highway 17, 2 mi southeast of Refuge Headquarters, and 5.2 mi south-southwest of Limehouse, S.C.

DRAINAGE AREA.--Unknown.

PERIOD OF RECORD.--October 1986 to January 1991 (discontinued).

INSTRUMENTATION.--Water-quality monitor. Specific Conductance recorded every 15 minutes.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 24,700 microsiemens June 27, 1988; minimum recorded, 200 microsiemens Jan. 31, Feb. 2, 3, 4, Dec. 14, 1989, Apr. 20, 24, May 1, 1990.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE:

Water year 1990: Maximum recorded, 20,400 microsiemens Sept. 30; minimum recorded, 200 microsiemens Dec. 14, Apr. 20, 24, May 1.

Water year 1991: Maximum recorded, 19,800 microsiemens Oct. 1; minimum recorded, 400 microsiemens Oct. 25, 28.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	5000	1300	4200	3100	12900	6800	2700	1000	4400	1100	2900	800
2	4800	700	5600	3500	12300	7500	3100	1200	4200	1800	2900	800
3	3900	400	7000	4100	12500	8100	3100	900	4000	1400	2400	800
4	5500	400	8400	5000	11700	7800	3200	1200	4600	1100	2600	1000
5	6600	500	10100	6500	11100	8000	3000	1300	5700	1000	2800	800
6	5100	400	11100	3700	10900	7700	3000	1100	6900	1300	2600	1000
7	4800	500	10000	3400	9500	5400	3200	1200	8200	1900	2300	1000
8	5600	600	10800	4000	6300	2500	3700	700	7300	2300	2500	1400
9	9700	900	11800	4400	3700	1200	3800	400	6300	1800	2500	1000
10	10400	1400	11700	4600	2600	800	2500	300	5400	1500	2400	800
11	10000	1500	11800	4200	2800	600	3100	400	4500	1400	2900	700
12	8600	1500	10900	5000	2900	2400	2900	400	4200	1100	3100	900
13	8100	1300	10400	5200	2700	300	2900	600	3900	1300	1900	500
14	5000	1300	10400	5600	1600	200	3200	900	3900	1300	1900	1100
15	3200	1300	10400	6000	1800	400	3600	900	3900	1200	1900	1200
16	3000	1500	10100	6900	1900	600	3100	900	3800	1400	2100	1100
17	2400	1200	10300	6600	1900	900	2800	800	3900	900	2100	900
18	2600	1100	11900	6600	1900	900	3500	900	5200	1800	2500	900
19	2500	1100	11300	6900	1900	900	4300	900	4800	1400	1900	1100
20	2400	800	11500	7000	1700	800	5300	1100	5300	1100	2400	500
21	2400	900	11100	7300	2000	700	5300	1000	6500	2300	2000	800
22	4000	1000	12400	7700	4100	700	3500	900	7600	1300	1500	900
23	6300	2200	14000	7900	5000	600	6700	800	5600	800	1600	600
24	7100	5200	14100	7800	4900	700	8300	1100	2700	600	1500	400
25	7300	5700	14100	7400	7400	900	9300	1900	3200	600	1400	400
26	7200	5700	13800	7100	6000	900	7900	1300	3600	700	1200	300
27	6000	4400	13400	6400	5300	900	5700	1500	3500	900	900	300
28	4600	3100	14400	7000	4400	900	5400	1200	3300	900	900	600
29	3700	2200	13600	7100	3500	1000	5100	1200	---	---	900	600
30	3800	2300	12400	7100	3100	1100	4600	1400	---	---	1100	600
31	4000	3200	---	---	3100	1200	4300	1300	---	---	1100	500
MONTH	10400	400	14400	3100	12900	200	9300	300	8200	600	3100	300

SAVANNAH RIVER BASIN

021989785 LUCKNOW CANAL NEAR LIMEHOUSE, S.C.--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	700	500	600	200	3900	2000	5800	3100	4800	2600	3900	1600
2	600	300	3100	300	3400	2000	6800	3000	6300	2500	4400	1700
3	700	300	4900	900	3300	1700	8100	3800	7100	3000	5000	1900
4	400	300	5600	1900	3200	1200	7900	3700	7500	3200	4700	2000
5	500	300	5700	1900	4000	1200	7100	3700	7200	3400	4500	1900
6	500	300	6600	1900	4800	1800	7500	3300	6700	3200	5600	300
7	500	400	7100	2000	4600	1700	8000	3600	6400	2800	5700	300
8	700	400	7200	1800	4200	1500	8400	3400	5900	2700	6400	600
9	700	400	7300	1700	3900	1300	8300	3300	5100	2500	7200	1300
10	700	300	7200	1600	3800	1400	7500	3200	4700	2400	8200	1500
11	600	300	6100	2000	4900	600	5800	2900	4500	2200	8100	1600
12	600	300	6100	1900	5700	2000	5300	2600	4400	2100	9200	1800
13	600	300	6000	1700	6500	2100	4400	2600	4300	2000	9700	1500
14	1000	300	5100	1500	5800	2300	5000	2600	3500	1600	10500	1600
15	600	300	5100	1900	5800	2400	4900	2300	3500	1500	11100	1700
16	600	300	5800	2300	7400	2400	5300	2300	3900	1400	11700	1700
17	700	300	4900	1800	8500	2400	5600	2400	4900	1500	13300	1800
18	2000	300	5800	1500	8600	2800	5500	2500	5200	1800	13200	2800
19	3900	300	5100	1700	8100	2700	6200	2200	5000	1900	13100	2600
20	3000	200	5800	1800	8200	2300	6500	2500	4700	1900	12800	2200
21	2300	300	6300	1100	8400	3000	6200	2300	4700	1500	12400	2600
22	1300	300	5600	1000	8500	2600	6100	2200	4500	2100	13200	3300
23	1200	300	8800	1200	8400	3600	6300	2200	4500	1800	13600	2800
24	1100	200	9000	2000	8400	3700	6700	3600	4000	2100	15000	3000
25	1600	300	8100	2600	8400	4700	6800	3400	3500	1900	15100	4000
26	1600	300	6600	3200	8500	3900	6800	2900	2500	1600	13600	3300
27	900	300	5800	2300	7500	3800	6400	3000	2400	1500	14600	3500
28	800	300	5200	2500	7200	4300	5700	2500	2600	1300	17500	2800
29	900	300	4800	1900	5600	4000	6000	2800	1800	1200	20300	2800
30	900	300	4100	2100	5200	3500	5400	3200	2200	1100	20400	3300
31	---	---	3900	2200	---	---	4800	2900	2600	1100	---	---
MONTH	3900	200	9000	200	8600	600	8400	2200	7500	1100	20400	300
YEAR	20400	200										

SAVANNAH RIVER BASIN

021989785 LUCKNOW CANAL NEAR LIMEHOUSE, S.C.--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19800	4100	6800	1300	11900	5700	11800	1900				
2	18200	3000	6600	1800	11100	4300	---	---				
3	17400	3000	6200	1700	10700	4200	---	---				
4	15700	2200	5700	2200	10800	4200	---	---				
5	14100	1900	5000	2200	9400	4100	---	---				
6	15100	2600	5200	2100	10500	4600	---	---				
7	14200	3100	5900	2100	10500	4400	---	---				
8	14100	3800	7000	2200	10100	2300	---	---				
9	14300	3700	8500	2700	9200	2400	---	---				
10	13600	3500	8000	3300	7200	2500	---	---				
11	12400	2900	6900	3400	8400	2400	---	---				
12	9600	2100	9300	3500	9200	2500	---	---				
13	6100	1400	11200	2400	9100	2300	---	---				
14	5800	800	11400	2300	9800	2100	---	---				
15	5500	900	10900	3000	8000	1200	---	---				
16	5100	800	9800	3000	6800	600	---	---				
17	5100	900	8900	3600	6800	500	---	---				
18	4200	700	9100	3600	8100	1900	---	---				
19	1500	800	10400	3900	8300	1800	---	---				
20	1500	800	8400	3700	8400	1700	---	---				
21	1300	700	8700	3400	8000	1900	---	---				
22	1300	700	9600	3400	7000	1800	---	---				
23	1300	700	10500	3400	6800	1600	---	---				
24	1900	600	9800	3400	6600	700	---	---				
25	1100	400	9300	3200	5700	700	---	---				
26	2300	500	10900	2800	8100	800	---	---				
27	4100	600	13500	3100	12700	700	---	---				
28	5200	400	13900	3100	13800	700	---	---				
29	7000	600	14200	1800	13600	800	---	---				
30	7500	500	12700	4300	13300	1500	---	---				
31	6900	600	---	---	12700	1600	---	---				
MONTH	19800	400	14200	1300	13800	500	11800	1900				

SAVANNAH RIVER BASIN

02198979 LITTLE BACK RIVER NEAR LIMEHOUSE, S.C.

LOCATION.--Lat 32°11'05", long 81°07'02", Jasper County, S.C., Hydrologic Unit 03060109, at the end of the fishing pier at north control gate of Lucknow Canal on the service road to the northern part of the Savannah National Wildlife Refuge accessed from U.S. Highway 17, 1.25 mi north of Refuge Headquarters, and 3.4 mi southwest of Limehouse, S.C.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--June 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3.39 ft below National Geodetic Vertical Datum of 1929, at mean low water (levels by U.S. Army Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height recorded, 10.07 ft, Mar. 27, 1990; minimum gage height recorded, -1.79 ft Apr. 7, 1989, but was lower during the day when the stage went below the recordable range of the gage.

EXTREMES FOR CURRENT YEAR.--Maximum gage height recorded, 10.07 ft, Mar. 27; minimum gage height recorded, -1.54 ft, Apr. 26.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.81	1.29	8.65	.86	8.57	.60	8.23	-0.28	8.51	-0.01	9.29	2.46
2	8.43	.80	8.71	1.01	8.44	.37	8.43	.31	8.44	-0.03	9.51	2.15
3	8.41	.93	8.55	1.62	7.50	-0.58	8.23	.30	8.22	.23	9.20	1.52
4	8.46	1.20	8.46	1.62	8.10	.33	8.11	.20	8.42	-0.43	8.78	2.62
5	8.50	1.97	8.70	1.81	7.98	-0.07	8.25	.09	7.93	.09	8.82	2.64
6	8.05	1.71	8.46	1.35	8.19	.15	8.55	.30	8.74	.69	9.02	2.50
7	7.93	1.08	8.30	.75	8.17	-0.08	8.96	.44	9.02	.00	8.94	2.10
8	8.15	1.40	8.42	.42	8.83	.25	9.39	.91	9.04	-0.44	9.46	3.68
9	8.66	2.21	8.71	.34	9.39	.26	9.02	-0.35	9.01	.03	9.22	2.74
10	8.79	2.04	8.98	-0.81	9.25	-0.31	8.88	-0.25	8.96	.04	8.84	1.63
11	9.09	1.66	9.00	-0.71	9.35	-0.36	9.14	-0.19	8.95	-0.05	8.85	1.73
12	9.17	1.36	9.17	-0.56	9.53	-0.39	8.75	-0.48	8.58	.29	8.67	1.33
13	9.26	1.13	9.38	-0.84	9.01	-0.29	8.64	-0.05	8.48	.32	8.56	1.06
14	9.58	.49	9.44	-0.32	8.93	-0.80	8.74	.38	8.25	.28	8.73	1.21
15	9.74	.69	9.27	-0.47	9.15	-0.55	8.55	.55	8.00	.66	8.67	1.52
16	9.63	.40	8.47	-0.75	8.63	-0.46	8.12	.42	7.63	.39	8.56	1.58
17	9.59	.33	8.59	-1.02	8.72	.73	7.98	.41	7.05	.66	8.31	1.10
18	9.37	.40	8.22	-0.11	8.30	.74	7.66	.80	7.78	2.59	7.71	1.33
19	8.72	.54	8.12	.26	8.30	1.46	7.37	.87	7.82	1.49	7.43	2.01
20	8.26	-0.19	7.78	.09	7.99	1.11	7.93	1.54	7.93	2.11	7.43	1.25
21	8.43	.71	7.60	-0.24	8.08	1.50	7.67	.26	8.61	2.24	8.01	1.99
22	8.49	.88	7.94	.68	7.94	1.96	7.15	.25	8.70	1.26	8.12	1.39
23	8.52	1.70	7.66	.03	8.48	1.84	8.03	.15	8.49	.43	8.41	.90
24	8.47	1.71	8.05	.65	8.50	1.45	8.47	.43	8.24	-1.32	8.91	.58
25	8.66	1.63	8.45	.75	8.79	1.41	8.65	.17	8.88	-0.79	9.24	.75
26	8.97	1.75	8.60	.57	8.16	.52	7.88	-0.85	9.34	1.37	9.83	.97
27	9.18	1.89	8.61	.39	8.69	.27	8.49	-0.99	9.38	1.66	10.07	2.38
28	9.34	1.96	8.62	.28	8.27	.01	8.62	-0.46	9.34	1.44	10.02	2.73
29	9.31	1.89	8.01	-0.21	8.57	.40	8.64	-0.28	---	---	9.98	2.05
30	9.32	2.23	8.52	.72	8.61	.26	8.57	-0.55	---	---	9.62	1.73
31	9.07	1.30	---	---	8.69	.54	8.47	-0.43	---	---	9.40	1.40
MONTH	9.74	-0.19	9.44	-1.02	9.53	-0.80	9.39	-0.99	9.38	-1.32	10.07	.58

SAVANNAH RIVER BASIN

02198979 LITTLE BACK RIVER NEAR LIMEHOUSE, S.C.--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--October 1986 to January 1991 (discontinued).

INSTRUMENTATION.--Water-quality monitor. Specific Conductance recorded at 15-minute intervals.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 18,800 microsiemens June 9, 1987; minimum recorded, 40 microsiemens Mar. 31, Apr. 1, 2, 25, 1990.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE:

Water Year 1990: Maximum recorded, 9,560 microsiemens June 19; minimum recorded, 40 microsiemens Mar. 31, Apr. 1, 2, 25.

Water Year 1991: Maximum recorded, 12,200 microsiemens Oct. 6; minimum recorded, 80 microsiemens, Oct. 22, 23, 24.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	250	150	560	150	1870	270	110	70	110	90	90	70
2	530	150	300	150	2360	230	100	70	180	90	80	60
3	340	150	570	140	2150	170	90	70	110	80	100	60
4	190	140	430	170	2420	140	130	70	160	80	80	60
5	170	130	440	160	2380	150	100	70	160	80	80	60
6	360	130	1310	160	2330	170	100	80	100	80	80	60
7	290	130	1360	300	1760	100	100	80	110	80	80	60
8	290	100	1440	340	160	100	110	80	160	90	70	60
9	130	90	1530	330	240	100	180	90	110	90	70	60
10	110	90	4200	460	170	90	170	80	130	100	80	60
11	120	100	1780	520	140	90	170	90	120	90	80	70
12	130	100	5460	520	140	80	160	80	140	80	100	60
13	160	110	6730	610	100	80	150	80	110	80	90	50
14	390	120	6650	680	100	80	100	80	100	70	80	50
15	170	120	6560	730	90	70	100	80	90	70	80	50
16	140	110	2000	600	90	70	100	80	100	70	80	50
17	120	100	1910	470	80	60	100	80	150	80	70	50
18	120	100	1940	330	80	60	110	80	100	70	70	50
19	360	100	1800	270	70	60	190	90	90	70	70	50
20	350	120	1740	220	80	60	120	90	90	70	70	50
21	190	110	1790	180	80	60	120	80	80	70	70	50
22	300	100	1550	210	80	60	130	80	100	70	70	50
23	180	80	1970	200	70	60	120	80	160	80	70	50
24	120	80	1620	220	80	60	100	70	230	80	80	50
25	220	90	1650	220	70	70	140	80	150	80	70	50
26	140	90	1850	260	90	70	140	90	110	80	80	60
27	120	100	1750	270	90	70	150	110	90	70	80	50
28	140	110	2270	350	100	70	150	100	90	70	80	50
29	120	100	2350	320	90	70	140	90	---	---	70	50
30	190	100	2090	320	90	70	150	90	---	---	80	50
31	290	100	---	---	80	70	110	90	---	---	80	40
MONTH	530	80	6730	140	2420	60	190	70	230	70	100	40

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

SAVANNAH RIVER BASIN

02198979 LITTLE BACK RIVER NEAR LIMEHOUSE, S.C.--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	440	170	150	110	9100	360	6030	560				
2	1890	210	1800	130	7890	650	---	---				
3	5600	360	1800	170	7950	760	---	---				
4	8400	550	2110	190	1940	770	---	---				
5	11300	670	2280	190	3810	570	---	---				
6	12200	890	1190	220	1710	420	---	---				
7	10700	1080	600	230	650	300	---	---				
8	8140	900	640	160	400	240	---	---				
9	10200	820	740	130	420	160	---	---				
10	5330	750	790	130	330	130	---	---				
11	1060	190	1100	230	530	140	---	---				
12	570	200	1140	240	490	130	---	---				
13	240	170	1280	260	400	130	---	---				
14	200	160	1200	260	390	110	---	---				
15	200	150	1100	250	320	120	---	---				
16	190	140	1200	240	330	120	---	---				
17	170	130	1200	260	360	140	---	---				
18	160	130	670	200	530	190	---	---				
19	160	120	1000	210	250	160	---	---				
20	150	100	1200	260	300	160	---	---				
21	120	90	1100	250	200	140	---	---				
22	110	80	790	210	170	110	---	---				
23	110	80	1170	180	140	100	---	---				
24	110	80	1200	210	130	100	---	---				
25	120	90	1210	160	120	100	---	---				
26	120	90	1400	160	140	100	---	---				
27	110	90	1430	180	280	130	---	---				
28	100	90	1600	310	380	190	---	---				
29	210	90	1690	300	1660	320	---	---				
30	160	90	8070	250	5160	560	---	---				
31	130	100	---	---	4210	560	---	---				
MONTH	12200	80	8070	110	9100	100	6030	560				

SAVANNAH RIVER BASIN

021989791 LITTLE BACK RIVER AT U.S. FISH AND WILDLIFE DOCK NEAR LIMEHOUSE, S.C.

LOCATION.--Lat 32°10'14", long 81°07'06", Jasper County, S.C., Hydrologic Unit 03060109, on right dock headwall on the left bank at U.S. Fish and Wildlife Dock at the headquarters of the Savannah National Wildlife Refuge, 0.3 mi north of U.S. 17, and 4.1 mi southwest of Limehouse, S.C.

PERIOD OF DAILY RECORD.--October 1989 to September 1990.

INSTRUMENTATION.--Water-quality monitor. Specific Conductance recorded at 15-minute intervals.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 13,400 microsiemens July 8; minimum recorded, 50 microsiemens Mar. 30, 31, Apr. 1.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3890	120	160	90	8840	190	110	80	2670	100	1120	80
2	390	110	3090	90	5990	150	130	80	890	100	940	70
3	450	120	670	100	300	120	110	80	190	100	290	70
4	520	120	510	110	470	110	110	80	360	90	90	70
5	260	110	3580	120	480	110	110	90	160	90	90	70
6	190	110	400	110	1710	120	260	90	3490	90	150	70
7	220	90	570	120	1160	120	1880	90	4840	100	140	70
8	130	80	6610	140	1170	120	1870	90	4450	100	290	70
9	200	80	8550	150	480	120	2810	90	3730	110	150	70
10	380	90	9510	170	250	120	2000	90	3260	120	180	70
11	7210	80	8600	250	190	110	1980	100	2770	110	200	70
12	6890	100	8160	290	180	100	2030	90	950	100	170	60
13	5020	110	8210	350	160	100	1650	90	690	90	180	70
14	1060	120	8200	430	240	100	1770	90	160	90	100	70
15	320	110	7700	490	210	90	260	90	130	100	100	60
16	180	100	6770	370	150	90	130	90	120	100	90	70
17	160	100	6860	250	130	90	120	90	120	100	120	70
18	160	100	7610	230	120	90	190	90	120	90	110	70
19	270	90	5200	210	110	80	190	110	100	90	100	70
20	150	90	600	160	100	80	170	90	110	90	100	70
21	150	90	1260	150	100	80	120	90	110	90	90	70
22	160	80	1660	160	100	80	110	90	830	80	100	70
23	130	80	1440	160	100	80	120	90	320	80	120	70
24	140	80	4430	160	100	80	3360	90	2160	70	110	70
25	180	80	9220	160	130	80	6010	90	2760	70	110	70
26	250	80	10700	160	110	80	1130	100	2030	80	100	70
27	240	90	10500	210	1240	80	4390	110	1650	70	90	60
28	200	100	10400	220	120	80	3670	100	1400	80	80	60
29	190	90	8490	240	190	80	3270	110	---	---	80	60
30	190	90	8530	210	390	80	2900	100	---	---	80	50
31	170	90	---	---	300	80	2730	100	---	---	90	50
MONTH	7210	80	10700	90	8840	80	6010	80	4840	70	1120	50

SAVANNAH RIVER BASIN

021989791 LITTLE BACK RIVER AT U.S. FISH AND WILDLIFE DOCK NEAR LIMEHOUSE, S.C.--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

SAVANNAH RIVER BASIN

02198980 SAVANNAH RIVER AT FORT PULASKI, GA.

LOCATION.--Lat 32°02'02", long 80°54'12", Chatham County, Hydrologic Unit 03060109, at downstream side of Coast Guard pier at Coast Guard station on Cockspar Island, 1 mi upstream from the mouth, 0.7 mi west of Fort Pulaski.

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3.02 ft below National Geodetic Vertical Datum of 1929, at low mean water, (levels by U.S. Army Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height recorded, 9.26 ft, Mar. 9, 1989; minimum gage height recorded, -3.73 ft, Apr. 7, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum gage height recorded, 9.23 ft, May. 23; minimum gage height recorded, -3.08 ft, Feb. 24.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.39	.24	7.18	.49	7.14	.08	5.78	-1.34	6.80	-0.83	8.33	-0.51
2	6.91	.27	7.30	.59	6.94	-0.26	6.66	-0.75	6.79	-0.77	7.97	-0.37
3	6.90	.39	7.21	1.29	5.70	-1.04	6.38	-0.92	6.60	-0.40	7.88	-0.25
4	7.01	.79	7.05	1.33	6.43	-0.27	6.27	-0.89	6.59	-1.05	7.30	.80
5	7.08	1.55	7.36	1.55	6.10	-0.60	6.43	-0.87	5.95	.18	7.42	1.07
6	6.50	1.16	6.89	.84	6.37	-0.18	6.84	-0.55	7.37	-0.75	7.64	.36
7	6.27	.67	6.55	.41	6.33	-0.35	7.45	-0.39	7.67	-1.09	7.56	1.77
8	6.59	1.04	6.81	.02	7.45	-0.12	8.27	-1.96	7.73	-1.47	8.24	.34
9	7.30	1.68	7.21	-1.19	8.31	-1.04	7.71	-1.74	7.67	-1.20	7.95	-0.24
10	7.45	1.03	7.77	-1.42	8.13	-1.23	7.45	-1.93	7.49	-1.35	7.29	-0.88
11	7.78	.05	7.82	-1.35	8.24	-1.26	7.85	-2.06	7.57	-1.23	7.32	-0.87
12	7.86	-0.56	8.15	-1.63	8.53	-1.53	7.23	-2.22	6.92	-0.79	7.09	-0.72
13	8.05	-0.65	8.47	-1.93	7.77	-1.56	7.16	-1.22	6.48	-0.58	6.98	-0.80
14	8.53	-1.07	8.60	-1.51	7.58	-1.84	7.31	-0.91	6.14	-0.45	7.13	-0.36
15	8.73	-1.20	8.35	-1.35	7.84	-1.36	7.01	-0.56	5.76	-0.01	6.93	.28
16	8.56	-1.42	6.67	-1.12	7.17	-1.15	6.30	-0.37	5.62	-0.21	6.51	.44
17	8.46	-1.24	7.15	-1.43	7.26	.16	6.06	-0.15	5.27	.15	6.21	-0.15
18	8.14	-0.75	6.59	-0.49	6.62	.14	5.90	.41	6.09	2.11	5.64	.24
19	7.21	-0.76	6.31	-0.09	6.74	.99	5.62	.48	6.09	.90	5.78	1.01
20	6.39	-1.25	5.95	-0.24	6.04	.48	6.27	1.04	5.99	1.45	5.92	.57
21	6.62	-0.05	5.68	-0.44	6.46	.68	5.84	-0.33	7.17	.58	6.45	1.22
22	6.75	.29	6.15	.29	6.03	1.12	5.12	-0.32	7.09	-0.47	6.65	.53
23	6.85	1.13	5.88	-0.32	6.93	.69	6.19	-0.10	6.94	-1.56	6.91	-0.54
24	6.87	.99	6.46	.47	6.89	.54	6.77	-0.20	5.99	-3.08	7.34	-0.73
25	7.16	1.38	6.94	.21	7.31	-0.57	7.16	-0.50	7.40	-2.42	8.12	-1.20
26	7.68	1.52	7.19	.20	6.22	-0.66	5.81	-1.71	8.09	-0.62	8.67	-1.33
27	7.88	1.37	7.18	.05	7.09	-0.91	6.82	-1.84	8.15	-1.36	9.02	-0.73
28	8.14	.95	7.18	-0.15	6.45	-1.48	7.06	-1.44	8.02	-1.44	8.98	-0.43
29	8.10	1.45	6.48	-0.61	6.96	-0.90	7.21	-1.43	---	---	8.34	-1.29
30	8.12	1.16	7.16	.22	6.99	-0.95	6.95	-1.54	---	---	8.05	-0.78
31	7.76	.60	---	---	7.17	-1.05	7.00	-1.50	---	---	7.57	-0.72
MONTH	8.73	-1.42	8.60	-1.93	8.53	-1.84	8.27	-2.22	8.15	-3.08	9.02	-1.33

SAVANNAH RIVER BASIN

02198980 SAVANNAH RIVER AT FORT PULASKI, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.57	.27	6.69	-0.51	7.26	.79	6.53	-0.06	6.60	.96	7.33	1.18
2	7.35	.20	6.98	.41	6.83	.65	6.92	.25	7.11	1.22	7.70	.90
3	6.95	-0.11	6.91	.46	6.86	.19	7.30	1.46	7.25	.68	7.74	.24
4	6.69	-0.17	6.63	-0.04	7.01	.26	7.26	.96	7.37	.53	8.02	-0.04
5	6.54	-0.36	6.52	-0.91	7.97	.41	7.06	.15	7.49	.11	8.05	.04
6	6.60	-0.71	7.25	-0.74	7.60	.56	7.24	.01	7.54	-0.29	7.86	-0.33
7	7.01	-0.88	7.37	.13	7.13	.06	7.63	.32	7.62	-0.25	7.70	-0.78
8	7.39	-0.22	7.28	-0.25	7.09	-0.19	7.66	.26	7.36	-0.25	7.55	-0.96
9	7.39	-0.07	7.25	-0.29	7.00	-0.13	7.45	.04	7.27	-0.32	7.86	-0.62
10	7.18	-0.85	6.67	-0.50	6.54	-0.39	6.94	-0.30	7.39	-0.51	8.28	.05
11	6.06	-1.15	6.82	-1.17	7.65	-0.54	6.84	-0.63	7.41	-0.95	---	---
12	6.80	-0.61	7.02	-0.22	---	---	6.64	-0.96	7.40	-0.42	---	---
13	6.85	-0.19	6.44	-0.08	---	---	6.58	-0.79	7.24	-0.25	---	---
14	6.57	.91	6.47	-0.03	6.95	---	6.80	-0.59	7.29	-0.59	---	---
15	6.21	.31	6.74	.50	6.94	.08	6.71	-1.09	7.31	-0.62	---	---
16	6.10	.65	6.69	.65	7.62	.71	6.99	-0.76	7.49	-0.62	---	---
17	6.10	.91	6.47	.29	7.95	1.18	7.35	-0.92	8.06	-0.57	---	---
18	6.27	1.61	6.63	-0.25	8.10	.20	7.44	-1.15	8.27	-0.53	---	.63
19	6.91	1.44	6.67	-0.37	8.33	-0.68	7.78	-1.14	8.40	-0.45	---	---
20	6.63	.11	7.26	-0.74	8.72	-0.99	8.00	-1.29	8.18	-0.85	---	---
21	6.69	-0.65	7.79	-1.66	8.59	-1.14	7.95	-1.77	7.93	-0.71	7.50	---
22	7.82	-1.22	7.95	-2.10	8.16	-1.64	7.88	-1.73	8.11	-0.40	7.00	.39
23	8.17	-1.12	9.23	-0.77	8.21	-1.92	8.16	-1.27	7.56	.23	7.00	.12
24	8.29	-1.96	9.21	-1.00	8.32	-1.19	7.95	-0.71	7.19	.25	7.01	1.56
25	8.30	-2.37	8.85	-1.36	8.13	-0.95	7.97	-0.19	6.75	.34	6.67	1.51
26	8.28	-2.47	8.76	-1.23	7.78	-0.53	7.67	.40	6.53	.39	6.30	1.59
27	8.25	-1.99	8.33	-0.77	7.37	-0.08	7.55	1.19	6.46	.91	---	---
28	8.11	-1.15	8.30	-0.21	7.33	.00	7.35	1.55	6.65	1.20	6.63	1.76
29	7.51	-1.03	8.07	-0.44	6.59	.03	7.21	1.60	6.39	1.38	6.89	1.35
30	7.40	-0.97	7.32	.15	6.39	-0.14	6.73	1.31	6.63	1.32	7.14	.68
31	---	---	7.26	.78	---	---	6.57	1.02	6.98	1.56	---	---
MONTH	8.30	-2.47	9.23	-2.10	---	---	8.16	-1.77	8.40	-0.95	---	---

LAKES AND RESERVOIRS IN SAVANNAH RIVER BASIN

02178500 LAKE BURTON NEAR CLAYTON, GA.

LOCATION.--Lat 34°47'37", long 83°32'26", Rabun County, Hydrologic Unit 03060102, on Tallulah River, 5.5 mi downstream from bridge on U.S. Highway 76, 10 mi southwest of Clayton, Ga.

DRAINAGE AREA.--115 mi².

PERIOD OF RECORD.--October 1929 to current year.

GAGE.--Nonrecording gage. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company).

REMARKS.--Lake is formed by concrete gravity dam. Spillway (crest elevation, 1,860.0 ft) is equipped with eight gates 22 ft wide by 6.6 ft high. Dam completed in 1919. Total capacity at elevation 1,866.6 ft, top of gates, is 108,000 acre-ft, of which 106,000 acre-ft is usable storage.

Lake is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Company.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

Date	Elevation (feet)*	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1865.7	105000	-	-
Oct. 31.....	1865.3	104000	-1000	-16
Nov. 30.....	1864.5	102000	-2000	-34
Dec. 31.....	1858.9	87200	-14800	-241
CAL YR 1989	-	-	+ 2000	+ 3
Jan. 31.....	1858.2	85500	-1700	-28
Feb. 28.....	1857.7	84300	-1200	-22
Mar. 31.....	1864.2	101000	+ 16700	+ 272
Apr. 30.....	1864.8	103000	+ 2000	+ 34
May 31.....	1864.4	102000	-1000	-16
June 30.....	1864.4	102000	0	0
July 31.....	1864.7	103000	+ 1000	+ 16
Aug. 31.....	1864.2	101000	-2000	-33
Sept. 30.....	1864.4	102000	+ 1000	+ 17
WTR YR 1990	-	-	-3000	-4

02179500 MATHIS RESERVOIR NEAR LAKEMONT, GA.

LOCATION.--Lat 34°47'03", long 83°24'57", Rabun County, Hydrologic Unit 03060102, on Tallulah River, 1 mi upstream from bridge on U.S. Highway 23, 1.8 mi south of Lakemont, Ga.

DRAINAGE AREA.--151 mi².

PERIOD OF RECORD.--October 1929 to current year.

GAGE.--Nonrecording gage. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company).

REMARKS.--Reservoir is formed by concrete slab and buttress dam. Spillway (crest elevation, 1,682.75 ft) is equipped with 16 gates 15.8 ft wide by 6.85 ft high. Dam completed in 1915. Total capacity at elevation 1,689.6 ft, top of gates, is 31,200 acre-ft, of which 23,000 acre-ft is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Company.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

Date	Elevation (feet)*	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1688.6	30400	-	-
Oct. 31.....	1687.5	29500	-900	-15
Nov. 30.....	1682.7	26200	-3300	-55
Dec. 31.....	1688.8	30500	+ 4300	+ 70
CAL YR 1989	-	-	+ 500	+ 1
Jan. 31.....	1688.6	30400	-100	-2
Feb. 28.....	1687.8	29800	-600	-11
Mar. 31.....	1687.3	29400	-400	-7
Apr. 30.....	1688.0	29900	+ 500	+ 8
May 31.....	1688.2	30100	+ 200	+ 3
June 30.....	1688.1	30000	-100	-2
July 31.....	1687.7	29700	-300	-5
Aug. 31.....	1688.0	29900	+ 200	+ 3
Sept. 30.....	1687.0	29200	-700	-12
WTR YR 1990	-	-	-1200	-2

*Elevation at 0700 on day following that shown in first column.

LAKES AND RESERVOIRS IN SAVANNAH RIVER BASIN

02187250 HARTWELL LAKE NEAR HARTWELL, GA.

LOCATION.--Lat 34 21'25", long 82 49'20", Hart County, Ga.--Anderson County, S.C., Hydrologic Unit 030060103, in right spillway elevator tower of dam on Savannah River, 1.9 mi upstream from Big Generostee Creek, 6.4 mi east of Hartwell, Ga., and at mile 305.0.

DRAINAGE AREA.--2,088 mi².

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

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to October 1, 1961, recording or nonrecording gage at several sites near dam at same datum.

REMARKS.--Lake is formed by concrete dam with earth embankments at each end; storage began in February 1961, dam complete 1961. Usable capacity, 1,708,600 acre-ft between elevations 625.0 ft, normal limit of drawdown, and 665.0 ft, top of gates. Dead storage below 625.0 ft, 1,134,100 acre-ft. Elevation of spillway crest, 630.0 ft. Water is used for flood control, generation of power, and navigation. Capacity table furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,871,000 acre-ft, Apr. 8, 1964, elevation, 665.47 ft; minimum, after first filling, 1,182,000 acre-ft, Oct. 16, 1961, elevation, 626.70 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,792,200 acre-ft, Mar. 5, elevation, 664.17 ft; minimum, 2,278,900 acre-ft, Sept. 28, elevation, 654.93 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	658.18	2449500	-	-
Oct. 31.....	660.76	2592500	+ 14300	+ 2326
Nov. 30.....	659.44	2518600	-73900	-1242
Dec. 31.....	657.58	2417300	-101300	-1647
CAL YR 1989	-	-	+575400	+795
Jan. 31.....	659.82	2539600	+ 122300	+ 1989
Feb. 28.....	662.86	2714000	+ 174400	+ 3140
Mar. 31.....	662.04	2665900	-48100	-782
Apr. 30.....	662.22	2676500	+ 10600	+ 178
May 31.....	659.86	2541800	-134700	-2191
June 30.....	658.16	2448400	-93400	-1570
July 31.....	658.05	2442400	-6000	-98
Aug. 31.....	655.97	2332300	-110100	-1791
Sept. 30.....	655.03	2283900	-48400	-813
WTR YR 1990	-	-	-165600	-229

LAKES AND RESERVOIRS IN SAVANNAH RIVER BASIN--Continued

02189004 RICHARD B. RUSSELL RESERVIOR NEAR CALHOUN FALLS, S.C.

LOCATION.--Lat 34 01'30", long 82 35'42", Elbert County, Ga.--Abbeville County, S.C., Hydrologic Unit 03060103, in left spillway elevator tower of dam on Savannah River, 1.2 mi downstream from Beer Manor Creek, 4.6 mi south of Calhoun Falls, S.C., at river mile 275.1.

DRAINAGE AREA.--2,900 mi² (furnished by U.S. Army Corps of Engineers).

PERIOD OF RECORD.--May 1984 to current year.

GAGE.--Water-stage recorder and data collection platform. Datum of gage is at National Geodetic Vertical Datum of 1929.

REMARKS.--Lake is formed by concrete dam; storage began on October 5, 1983, dam completed in December 1983. Useable capacity, 126,800 acre-ft between elevations 470.0 ft, normal limit of drawdown, and 475.0 ft, top of spillway gates. Dead storage below 470.0 ft, 899,400 acre-ft. Elevation of spillway crest, 436.0 ft. Water is used for flood control, generation of power, and recreation. Capacity information furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,119,100 acre-ft, Feb. 20, 1990, elevation, 478.37 ft; minimum, 799,000 acre-ft, May 7, 1984, elevation, 465.65 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,119,100 acre-ft, Feb. 20, elevation, 478.37 ft; minimum, 900,800 acre-ft, Sept. 11, elevation, 470.06 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	474.26	1006700	-	-
Oct. 31.....	474.24	1006100	-600	-10
Nov. 30.....	475.87	1049600	+43500	+731
Dec. 31.....	475.16	1030500	-19100	-311
CAL YR 1989	-	-	+101800	+141
Jan. 31.....	476.64	1070700	+40200	+654
Feb. 28.....	477.37	1090900	+20200	+364
Mar. 31.....	476.99	1080300	-10600	-172
Apr. 30.....	477.07	1082500	+2200	+37
May 31.....	475.87	1049600	-32900	-535
June 30.....	475.86	1049400	-200	-3
July 31.....	473.53	987600	-61800	-1005
Aug. 31.....	470.62	914400	-73200	-1190
Sept. 30.....	471.24	929700	+15300	+257
WTR YR 1990	-	-	-77000	-106

LAKES AND RESERVOIRS IN SAVANNAH RIVER BASIN--Continued

02194500 THURMOND LAKE NEAR CLARKS HILL, S.C.

LOCATION.--Lat 33 39'40", long 82 12'00", Columbia County, Ga.-McCormick County, S.C., Hydrologic Unit 03060103, in left spillway elevator tower of dam on Savannah River, 1.6 mi west of Clarks Hill, S.C., 3.7 mi upstream from Kiokee Creek, and at mile 237.7.

DRAINAGE AREA.--6,150 mi², approximately.

PERIOD OF RECORD.--October 1951 to current year. Prior to October 1987, published as "Clarks Hill Lake".

REVISED RECORDS.--WSP 1703: 1953.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1952, nonrecording gage at same site and datum.

REMARKS.--Lake is formed by concrete dam with earth at each end; storage began in December 1951, dam completed in 1952. Use capacity, 1,730,000 acre-ft between elevations 305.0 ft, normal limit of drawdown, and 335.0 ft, top of spillway gates. Dead storage below 305.0 ft, 1,170,000 acre-ft. Elevation of spillway crest, 300.0 ft. Water is used for flood control, generation of power, and navigation. Capacity table furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 3,037,600 acre-ft, Apr. 9, 1964, elevation, 336.72 ft; minimum, 897,900 acre-ft, Feb. 1, 1956, elevation, 296.48 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,789,200 acre-ft, Mar. 20, elevation, 333.58 ft; minimum, 2,094,600 acre-ft, Sept. 10, elevation, 323.91 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	327.87	2360900	-	-
Oct. 31.....	329.09	2446300	+ 85400	+ 1389
Nov. 30.....	329.66	2486200	+ 39900	+ 671
Dec. 31.....	327.88	2361600	-124600	-2026
CAL YR 1989	-	-	+ 841700	+ 1163
Jan. 31.....	329.79	2495300	+ 133700	+ 2174
Feb. 28.....	329.91	2503700	+ 8400	+ 151
Mar. 31.....	330.50	2549000	+ 45300	+ 737
Apr. 30.....	331.71	2643400	+ 94400	+ 1586
May 31.....	329.98	2508600	-134800	-219
June 30.....	329.00	2440000	-68600	-1153
July 31.....	327.13	2309100	-130900	-2129
Aug. 31.....	325.47	2192900	-116200	-1890
Sept. 30.....	323.96	2097600	-95300	-1602
WTR YR 1990	-	-	-263300	-364

OGEECHEE RIVER BASIN

02201000 WILLIAMSON SWAMP CREEK AT DAVISBORO, GA.

LOCATION.--Lat 32°58'32", long 82°36'36", Washington County, Hydrologic Unit 03060201, at bridge on State Highway 231 at Davisboro, 1.2 mi downstream from Central of Georgia Railroad bridge, and 1.9 mi downstream from Sun Hill Creek
DRAINAGE AREA.--109 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July to December 1903, water years 1979-80 (annual maximum), May 1980 to current year. Monthly discharges only for July to December 1903, published in WSP 1304.

GAGE.--Water-stage recorder. Elevation of gage is 263 ft above National Geodetic Vertical Datum of 1929 (from information obtained from Georgia Department of Transportation). August 16, 1978 to May 8, 1980, crest-stage gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--10 years, 85.3 ft³/s, 10.63 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,430 ft³/s, Mar. 13, 1980, gage height, 11.13 ft; minimum discharge, 9.5 ft³/s, July 15, 16, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 650 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	1230	*977	*8.27	No other peak greater than base discharge.			

Minimum discharge, 12 ft³/s, July 4-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	267	41	72	269	116	96	180	74	27	13	17	22
2	839	48	62	235	109	98	120	56	26	13	21	20
3	480	55	57	151	108	152	94	47	28	13	97	19
4	193	52	52	127	108	214	85	40	28	12	36	18
5	114	48	52	116	111	152	77	48	25	12	24	17
6	86	45	52	161	98	116	73	68	23	12	21	16
7	71	45	84	284	96	100	77	55	22	12	20	16
8	61	49	286	430	96	91	76	46	26	21	19	16
9	52	72	446	393	89	91	68	42	115	18	30	17
10	47	68	404	237	109	103	65	74	64	21	32	18
11	46	54	251	172	165	101	85	76	34	18	29	18
12	44	51	176	145	126	92	80	52	26	16	24	21
13	44	47	257	126	100	87	68	44	23	15	21	18
14	46	44	231	114	90	81	62	39	22	18	19	17
15	53	52	154	111	86	78	60	37	21	21	18	22
16	55	91	129	113	120	80	56	34	21	20	17	21
17	52	91	111	107	321	164	52	31	20	18	17	18
18	59	72	112	107	260	358	47	31	19	20	21	17
19	90	59	147	107	244	230	46	29	18	34	18	17
20	81	54	203	103	252	144	45	28	18	28	17	16
21	59	52	165	187	174	109	46	27	16	24	17	16
22	51	49	129	309	154	96	47	26	17	22	19	16
23	47	92	109	191	200	90	46	26	20	22	25	21
24	43	95	94	141	160	86	43	26	18	24	28	18
25	41	68	92	134	119	83	40	25	16	23	25	17
26	39	61	95	244	105	80	43	24	16	21	22	16
27	38	61	92	204	97	77	38	24	15	19	20	16
28	37	69	89	142	95	75	44	36	15	17	19	16
29	39	153	84	128	---	83	158	49	14	17	18	16
30	43	112	82	138	---	93	152	34	14	16	19	18
31	41	---	110	131	---	165	---	30	---	16	24	---
TOTAL	3258	1950	4479	5557	3908	3665	2173	1278	767	576	754	534
MEAN	105	65.0	144	179	140	118	72.4	41.2	25.6	18.6	24.3	17.8
MAX	839	153	446	430	321	358	180	76	115	34	97	22
MIN	37	41	52	103	86	75	38	24	14	12	17	16
CFSM	.96	.60	1.32	1.64	1.28	1.08	.66	.38	.24	.17	.22	.16
IN.	1.11	.67	1.53	1.90	1.33	1.25	.74	.44	.26	.20	.26	.18
CAL YR 1989	TOTAL	29191	MEAN	80.0	MAX	839	MIN	17	CFSM	.73	IN	9.96
WTR YR 1990	TOTAL	28899	MEAN	79.2	MAX	839	MIN	12	CFSM	.73	IN	9.86

OGEECHEE RIVER BASIN

02201000 WILLIAMSON SWAMP CREEK AT DAVISBORO, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1990.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
SEP 18...	1415	17	70	70	7.3	7.2	21.0	29.5	7.6	85

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
SEP 18...	25	7.0	0.3	330	24	0.230	<0.030	0.090	3.1

OGEECHEE RIVER BASIN

02202190 OGEECHEE RIVER NEAR OLIVER, GA.

LOCATION.--Lat 32°29'45", long 81°33'11", Screven-Bulloch County line, Hydrologic Unit 03060202, at bridge on State Highway 24, 0.3 mi upstream from Ogeechee Creek, and 2.0 mi southwest of Oliver.

DRAINAGE AREA.--2,230 mi², approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 04...	0815	2450	77	77	6.9	6.7	21.5	25.0	5.5	62
NOV 06...	0850	800	113	112	7.0	6.9	14.5	23.0	7.4	72
DEC 06...	0915	1450	87	89	7.0	6.9	11.0	14.0	7.5	68
JAN 10...	0930	6200	57	58	6.8	6.7	11.0	12.0	5.6	51
FEB 14...	0935	2500	78	80	7.0	6.9	14.0	21.0	5.8	56
MAR 07...	0910	3350	69	71	7.2	6.8	14.0	15.5	6.0	57
APR 04...	0820	2700	74	76	7.1	7.0	15.5	18.0	5.5	55
MAY 09...	1055	930	90	92	7.2	7.1	19.0	23.0	4.6	49
JUN 06...	0750	14000	110	121	7.3	7.2	25.0	29.0	4.1	50
JUL 17...	0910	182	--	187	8.0	7.6	27.5	33.5	6.2	--
AUG 08...	0735	177	160	159	7.9	7.8	28.0	27.0	6.0	77
SEP 18...	0740	133	234	236	8.0	7.8	24.5	22.0	6.6	79

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 04...	80	4.0	1.0	80	20	5	0.050	<0.030	0.120	--
NOV 06...	70	5.0	1.2	20	34	4	0.160	0.050	0.140	6.5
DEC 06...	60	8.0	2.5	80	27	6	0.020	<0.030	0.080	6.5
JAN 10...	110	10	0.9	110	14	5	0.050	0.030	0.080	12
FEB 14...	70	9.0	1.6	130	22	12	0.090	0.070	0.170	7.8
MAR 07...	--	11	0.6	--	19	9	0.100	0.080	0.160	8.8
APR 04...	60	14	0.6	50	24	3	0.200	<0.030	0.160	10
MAY 09...	80	20	0.6	130	29	11	0.300	0.040	0.180	5.0
JUN 06...	30	7.0	0.3	330	14	12	0.370	<0.030	0.120	5.1
JUL 17...	20	8.0	2.8	--	60	13	0.030	<0.030	0.110	5.9
AUG 08...	40	7.0	2.5	50	49	15	0.170	<0.030	0.060	1.4
SEP 18...	15	11	2.5	50	80	14	0.020	0.030	0.240	4.4

OGEECHEE RIVER BASIN

**02202500 OGEECHEE RIVER NEAR EDEN, GA.
(National Stream-Quality Accounting Network station)**

LOCATION.--Lat 32°11'29", long 81°24'58", Effingham-Bryan County line, Hydrologic Unit 03060202, on right bank 600 ft downstream from bridge on U.S. Highway 80, 2 mi west of Eden, 2 mi upstream from Seaboard Coast Line Railroad bridge, and 3 mi upstream from Black Creek.

DRAINAGE AREA.--2,650 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 19.64 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1939, nonrecording gage at site 600 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Sept. 23-30. Records good, except those estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--53 years, 2,280 ft³/s, 11.68 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,800 ft³/s, Mar. 19, 1980, gage height, 14.77 ft; minimum daily, 106 ft³/s, July 14, 1990.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1840, 20 ft in October 1929, from data furnished by Central of Georgia Railway Co. Flood of January 1925, reached a stage of 19.5 ft, from information as explained above. Flood of April 1936, reached a stage of 15.2 ft, from information as explained above, discharge, 30,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 16	0100	5,660	9.36	Jan. 10	2000	*9,430	*10.94
Dec. 24	0800	6,410	9.73	Feb. 26	2100	5,000	9.00

Minimum daily discharge, 106 ft³/s, July 14.

OGEECHEE RIVER BASIN

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3630	1330	1720	3970	3680	4710	3150	850	534	190	274	236
2	3470	1240	1700	3690	3660	4610	3400	848	492	190	236	227
3	3220	1160	1640	3480	3660	4630	3370	849	482	152	227	210
4	3030	1080	1570	3340	3690	4740	3160	842	491	146	218	172
5	2840	1010	1520	3240	3750	4830	2940	827	493	140	197	152
6	2670	957	1470	3180	3710	4740	2790	809	469	134	184	152
7	2520	922	1450	3420	3620	4470	2720	805	444	128	172	152
8	2390	893	1540	4550	3460	4070	2670	816	416	122	184	146
9	2270	874	1870	6480	3280	3660	2620	832	396	116	210	146
10	2250	864	2190	8980	3180	3320	2540	861	397	114	254	140
11	2470	861	2570	9240	3220	3030	2430	877	435	114	294	134
12	2940	864	2890	8540	3170	2780	2270	862	424	116	301	128
13	3650	865	3140	7840	3170	2600	2130	806	393	111	288	128
14	4640	865	3270	7410	3150	2470	2020	747	373	106	274	128
15	5480	875	3420	7400	3080	2420	1930	711	372	116	281	122
16	5530	919	3620	7490	2990	2460	1830	702	381	134	301	122
17	5020	943	3870	7310	2950	2590	1750	712	397	160	314	116
18	4760	1000	4200	6850	2910	2730	1690	732	412	172	320	116
19	4620	1080	4620	6320	2980	2800	1630	751	406	197	267	111
20	4060	1140	5080	5840	3120	2830	1550	762	370	218	274	111
21	3750	1180	5440	5530	3320	2790	1470	761	330	227	245	116
22	3400	1210	5820	5340	3600	2700	1390	751	298	236	227	116
23	2970	1260	6200	5150	3950	2620	1310	729	275	236	218	120
24	2580	1290	6370	4920	4310	2570	1240	686	257	245	210	120
25	2280	1320	6270	4670	4700	2520	1190	632	239	254	197	120
26	2050	1390	6000	4540	4940	2460	1120	580	222	274	184	120
27	1890	1480	5630	4320	4980	2390	1050	529	208	281	172	120
28	1750	1560	5250	4080	4870	2320	981	505	203	307	160	120
29	1620	1640	4900	3920	—	2300	940	555	190	288	160	120
30	1520	1700	4590	3790	—	2410	880	633	197	274	184	120
31	1430	—	4270	3720	—	2760	—	618	—	254	227	—
TOTAL	96700	33772	114090	168550	101100	98330	60161	22980	10996	5752	7254	4141
MEAN	3119	1126	3680	5437	3611	3172	2005	741	367	186	234	138
MAX	5530	1700	6370	9240	4980	4830	3400	877	534	307	320	236
MIN	1430	861	1450	3180	2910	2300	880	505	190	106	160	111
CFSM	1.18	.43	1.39	2.05	1.36	1.20	.76	.28	.14	.07	.09	.05
IN.	1.36	.47	1.60	2.37	1.42	1.38	.84	.32	.15	.08	.10	.06
CAL YR 1989	TOTAL	719057	MEAN	1970	MAX	6370	MIN	340	CFSM	.74	IN	10.09
WTR YR 1990	TOTAL	723826	MEAN	1983	MAX	9240	MIN	106	CFSM	.75	IN	10.16

OGEECHEE RIVER BASIN

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1981.

WATER TEMPERATURES: October 1972 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 183 microsiemens Sept. 13, 1978; minimum, 23 microsiemens Mar. 20, 1980.

WATER TEMPERATURES: Maximum, 32.0°C July 9-11, 13, 15, 21, 22, 1977, Aug. 9, 1980; minimum, 1.5°C Jan. 19-21, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L)
OCT 24...	1445	2540	90	75	6.8	7.5	14.5	7.9	76	19	16	18
JAN 22...	1430	5330	56	60	7.2	7.2	13.0	8.2	77	15	12	15
MAR 27...	1400	2380	78	82	7.2	7.0	17.5	7.2	74	30	25	25
MAY 14...	1300	744	100	104	7.5	7.5	22.0	6.9	78	44	36	36
JUL 09...	1315	114	146	154	8.2	8.1	30.0	7.8	102	67	55	55
AUG 20...	1230	254	141	142	8.0	8.0	29.5	7.6	99	49	41	45

DATE	TUR-BID-ITY (NTU)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARBCALCIUM DISSOLVED LAB MG/L AS CACO3	DISSOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
OCT 24...	3.1	90	93	24	6	7.2	1.5	5.4	31	0.5	2.0
JAN 22...	6.5	130	35	17	2	5.1	1.1	3.6	29	0.4	1.6
MAR 27...	7.1	52	32	27	2	8.1	1.7	5.3	28	0.4	1.7
MAY 14...	5.5	K37	54	32	0	10	1.7	9.0	37	0.7	1.3
JUL 09...	3.5	20	160	44	11	14	2.1	13	38	0.9	1.6
AUG 20...	5.0	70	--	38	0	12	1.9	13	42	0.9	1.4

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT 24...	3.0	8.2	0.10	12	71	50	487	0.10
JAN 22...	4.0	6.6	0.10	7.3	59	38	849	0.08
MAR 27...	1.7	6.7	0.20	5.9	67	47	431	0.09
MAY 14...	3.4	7.6	<0.10	11	75	68	151	0.10
JUL 09...	5.8	10	<0.10	8.8	88	88	27.1	0.12
AUG 20...	8.8	12	<0.10	11	96	85	65.8	0.13

OGEECHEE RIVER BASIN

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT 24...	0.010	<0.100	0.040	0.030	0.66	0.70	0.060	0.040	0.050
JAN 22...	<0.010	<0.100	0.030	0.030	0.77	0.80	0.030	0.020	0.040
MAR 27...	0.020	0.200	0.040	0.040	0.56	0.60	0.090	0.070	0.040
MAY 14...	<0.010	0.300	0.040	0.030	0.46	0.50	0.080	0.050	0.040
JUL 09...	<0.010	<0.100	<0.010	0.010	--	0.90	0.090	0.020	<0.010
AUG 20...	<0.010	<0.100	0.020	0.020	0.98	1.0	0.110	0.050	0.010

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
OCT 24...	180	<1	29	<0.5	<1.0	1	<3	1	1100	1
JAN 22...	180	<1	21	<0.5	1.0	<1	6	<10	550	10
MAY 14...	50	<1	26	<0.5	1.0	<1	5	1	930	1
AUG 20...	10	<1	22	<0.5	<1.0	1	<3	1	170	<1

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 24...	<4	47	<0.1	<10	1	<1	<1.0	27	<6	<3
JAN 22...	<4	21	<0.1	<10	20	<1	<1.0	22	<6	8
MAY 14...	<4	45	<0.1	<10	<1	<1	<1.0	38	<6	4
AUG 20...	<4	24	<0.1	<10	1	<1	<1.0	51	<6	5

OGEECHEE RIVER BASIN

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 24...	1450	2540	14.5	6	41	95
JAN 22...	1435	5330	13.0	4	58	97
MAR 27...	1405	2380	17.5	5	32	99
MAY 14...	1305	744	22.0	10	20	80
JUL 09...	1320	114	30.0	13	4.0	79
AUG 20...	1235	254	29.5	11	7.5	82

OGEECHEE RIVER BASIN

02202600 BLACK CREEK NEAR BLITCHTON, GA.

LOCATION.--Lat 32°10'04", long 81°29'18", Bryan County, Hydrologic Unit 03060202, at bridge on U.S. Highway 280 (State Highway 30), 4.2 mi upstream from Mill Creek, 5.8 mi southwest of Blitchton, and 8.7 mi upstream from mouth.

DRAINAGE AREA.--232 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1944, 1951, 1954, 1959, 1961-62, 1964-68, 1973. February 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 30 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good, except those less than 1 ft³/s, which are fair.

AVERAGE DISCHARGE.--10 years, 157 ft³/s, 9.19 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,480 ft³/s, Nov. 24, 1985, gage height, 12.84 ft; zero flow was observed August 19, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 21	1400	1,700	9.96	Jan. 9	1600	*5,620	*12.91
Dec. 11	1500	1,610	9.84	Jan 28	1000	966	8.74
Dec. 22	1400	1,210	9.21	Feb. 22	0900	1,010	8.84

Minimum daily discharge, 0.23 ft³/s, July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	393	96	127	305	506	331	146	5.6	1.5	.45	.37	.97
2	376	87	115	313	479	265	158	4.5	1.6	.36	1.1	1.2
3	370	82	104	367	465	243	150	3.9	1.9	.40	1.6	.99
4	390	87	92	404	430	226	126	3.4	1.6	.45	1.0	.94
5	344	82	82	374	424	200	96	3.0	1.5	.40	.85	.85
6	271	75	76	331	513	188	79	2.7	1.5	.33	.80	.84
7	223	73	71	462	572	173	64	2.4	1.2	.28	.80	.76
8	177	71	136	1440	453	152	54	2.1	1.2	.27	.97	.71
9	129	74	478	4910	381	136	48	2.1	1.0	.23	1.5	.70
10	98	73	1070	4060	354	125	48	2.1	.95	.24	1.1	.65
11	91	68	1560	2420	486	118	43	1.9	1.1	.26	1.1	.63
12	92	64	1500	1590	634	113	36	1.9	.92	.29	.96	.61
13	93	58	1230	1180	766	106	28	1.9	.80	.32	.80	.57
14	96	52	1010	929	695	101	21	1.9	.63	.34	1.5	.58
15	92	52	867	732	567	93	21	1.8	1.1	.27	1.8	.56
16	84	76	741	577	455	86	19	1.6	1.2	.29	2.0	.55
17	79	86	625	477	427	83	14	1.8	.74	.35	9.3	.50
18	230	105	530	408	453	105	11	1.7	.70	.49	3.3	.49
19	738	133	545	348	632	131	8.9	1.5	.68	.49	2.2	.48
20	1000	122	681	302	790	170	7.5	1.3	.55	.56	1.7	.48
21	1600	97	980	289	980	171	6.8	1.2	.50	.50	1.4	.46
22	1390	83	1190	280	1000	144	6.0	1.4	.49	.46	1.3	.43
23	1000	93	1130	285	941	117	5.2	1.5	.59	.50	1.4	.42
24	702	108	989	304	818	95	4.6	1.3	.55	.50	1.4	.38
25	450	113	844	316	714	82	4.1	1.3	.49	.46	1.4	.39
26	282	130	621	464	643	70	3.2	1.3	.53	.37	1.5	.40
27	215	135	515	732	534	61	2.7	1.2	.53	.24	1.2	.39
28	174	131	453	947	425	52	2.5	1.7	.58	.28	1.1	.40
29	142	127	405	829	---	50	4.3	2.4	.57	.30	1.0	.50
30	119	134	356	681	---	55	6.3	1.7	.55	.31	1.0	.53
31	105	---	308	588	---	116	---	1.5	---	.25	.97	---
TOTAL	11545	2767	19431	27644	16537	4158	1224.1	65.6	27.75	11.24	48.42	18.36
MEAN	372	92.2	627	892	591	134	40.8	2.12	.93	.36	1.56	.61
MAX	1600	135	1560	4910	1000	331	158	5.6	1.9	.56	9.3	1.2
MIN	79	52	71	280	354	50	2.5	1.2	.49	.23	.37	.38
CFSM	1.60	.40	2.70	3.85	2.55	.58	.18	.009	.004	.002	.007	.003
IN.	1.85	.44	3.12	4.43	2.65	.67	.20	.01	.00	.00	.01	.00
CAL YR 1989	TOTAL	76335.10	MEAN	209	MAX	2480	MIN	1.2	CFSM	.90	IN	12.24
WTR YR 1990	TOTAL	83477.47	MEAN	229	MAX	4910	MIN	.23	CFSM	.99	IN	13.39

OGEECHEE RIVER BASIN

02203000 CANOOCHEE RIVER NEAR CLAXTON, GA.

LOCATION.--Lat 32°11'05", long 81°53'20", Evans County, Hydrologic Unit 03060203 (revised), on right bank 400 ft upstream from bridge on State Highway 73, 2 mi northeast of Claxton, and 10 mi upstream from Lotts Creek.

DRAINAGE AREA.--555 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1937 to current year.

REVISED RECORDS.--WSP 1112: 1939-41, 1944.

GAGE.--Water-stage recorder. Datum of gage is 80.5 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Prior to Oct. 20, 1949, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--53 years, 460 ft³/s, 11.26 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft³/s, May 26, 1966, gage height, 16.58 ft; minimum daily discharge 0.62 ft³/s, Nov. 8, 19, 1983.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 22	0200	1,840	9.87	Jan. 9	0700	*7,720	*14.35

Minimum daily discharge, 0.75 ft³/s, Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	911	190	514	837	1000	948	460	49	32	1.8	1.2	1.3
2	751	181	451	898	950	852	567	35	40	1.8	1.4	1.8
3	723	169	363	964	889	769	641	27	31	1.6	2.4	1.6
4	689	156	318	1050	841	672	675	27	22	1.5	2.0	1.4
5	650	152	295	1060	831	613	699	30	17	1.7	2.1	1.2
6	604	145	266	1080	754	607	640	30	13	1.7	2.0	1.1
7	532	132	240	1630	706	594	569	27	9.6	1.7	1.8	.82
8	476	138	402	5400	678	548	486	24	7.5	1.7	3.0	1.0
9	451	146	985	7470	629	507	371	22	11	1.5	6.6	1.1
10	440	146	1370	5670	620	481	300	20	6.9	1.9	14	1.1
11	425	137	1650	4020	810	482	251	20	7.3	2.0	8.5	1.0
12	373	136	1780	3250	931	448	229	19	7.8	2.9	4.6	.94
13	309	136	1670	2760	1010	421	214	19	6.2	2.0	3.1	.90
14	260	135	1610	2270	965	401	192	18	5.8	2.4	2.3	.75
15	229	161	1620	1860	848	387	169	16	5.1	2.2	2.0	.76
16	212	280	1640	1570	765	377	147	14	4.8	2.1	2.1	.79
17	227	288	1570	1370	828	396	131	13	4.1	2.2	3.7	.86
18	395	263	1470	1180	897	546	117	11	3.8	2.8	3.3	.77
19	1020	321	1440	1100	1090	623	105	10	3.4	3.6	2.3	.78
20	1300	363	1580	1010	1300	686	94	9.1	2.8	2.8	1.9	.87
21	1340	370	1770	980	1450	669	85	9.0	2.5	2.0	1.5	1.1
22	1180	352	1810	1030	1540	579	76	9.4	2.5	1.9	1.2	1.3
23	923	357	1660	1050	1550	547	69	8.8	2.5	1.9	1.1	1.5
24	711	419	1480	1080	1510	502	60	8.1	2.4	1.9	1.0	1.7
25	558	468	1330	1090	1490	444	50	7.5	2.3	1.9	.98	1.6
26	469	571	1220	1110	1410	360	41	7.2	2.2	2.5	.99	1.5
27	389	601	1130	1110	1250	281	33	6.6	2.2	2.5	1.3	1.5
28	316	555	1020	1160	1070	231	30	7.5	2.0	1.9	1.3	1.7
29	269	548	879	1160	---	203	47	16	1.9	1.5	1.2	1.9
30	234	525	797	1090	---	212	57	41	1.9	1.6	1.2	2.1
31	207	---	766	1050	---	303	---	32	---	1.7	1.1	---
TOTAL	17573	8541	35096	58359	28612	15689	7605	593.2	263.5	63.2	83.17	36.74
MEAN	567	285	1132	1883	1022	506	254	19.1	8.78	2.04	2.68	1.22
MAX	1340	601	1810	7470	1550	948	699	49	40	3.6	14	2.1
MIN	207	132	240	837	620	203	30	6.6	1.9	1.5	.98	.75
CFSM	1.02	.51	2.04	3.39	1.84	.91	.46	.03	.02	.004	.005	.002
IN.	1.18	.57	2.35	3.91	1.92	1.05	.51	.04	.02	.00	.01	.00
CAL YR 1989	TOTAL	168762.00	MEAN	462	MAX	2280	MIN	11	CFSM	.83	IN	11.31
WTR YR 1990	TOTAL	172514.81	MEAN	473	MAX	7470	MIN	.75	CFSM	.85	IN	11.56

OGEECHEE RIVER BASIN

02203000 CANOOCHEE RIVER NEAR CLAXTON, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 04...	1015	692	47	40	5.4	5.2	17.5	26.5	5.1	53
NOV 06...	1215	150	52	51	5.8	5.6	14.0	28.0	6.9	67
DEC 05...	0815	299	47	46	5.8	5.6	6.0	8.0	8.2	65
JAN 10...	1240	5560	33	33	5.4	5.2	10.5	18.0	5.8	52
FEB 14...	1155	972	100	100	6.6	6.5	14.0	24.5	5.2	50
MAR 06...	0825	606	43	43	6.1	5.8	13.0	14.0	5.8	54
APR 03...	0730	634	46	46	6.1	6.0	17.5	12.5	5.1	54
MAY 08...	1050	24	65	62	6.0	5.9	20.0	26.5	4.9	54
JUN 05...	1550	16	55	55	5.9	6.1	25.0	31.0	4.8	58
JUL 17...	1110	1.9	59	64	6.3	6.3	27.5	32.5	4.3	54
AUG 08...	0955	1.7	60	60	6.3	6.4	24.0	31.0	4.5	53
SEP 20...	0550	0.97	64	61	6.0	6.4	23.0	19.0	4.1	48

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 04...	240	5.0	1.1	80	2	4	0.040	<0.030	0.100	--
NOV 06...	160	4.0	1.9	65	4	4	0.040	0.030	0.100	21
DEC 05...	90	4.0	2.1	40	2	8	0.030	<0.030	0.070	17
JAN 10...	120	14	0.8	490	2	5	0.120	<0.030	0.040	2.6
FEB 14...	130	8.0	3.3	490	15	13	1.00	1.29	0.340	15
MAR 06...	110	8.0	0.8	210	4	5	0.110	0.110	0.180	5.3
APR 03...	120	8.0	1.3	130	6	7	0.100	0.080	0.060	<1.0
MAY 08...	80	7.0	0.6	45	6	16	0.230	0.050	0.100	1.8
JUN 05...	70	2.0	1.0	170	5	3	0.080	<0.030	0.080	15
JUL 17...	80	4.0	1.0	130	10	6	0.040	<0.030	0.100	9.5
AUG 08...	70	20	1.6	20	10	4	0.600	0.060	<0.020	4.8
SEP 20...	--	2.0	0.7	20	10	3	<0.020	<0.030	0.100	6.8

OGEECHEE RIVER BASIN

02203519 CANOOCHEE RIVER NEAR RICHMOND HILL, GA.

LOCATION.--Lat 31°58'59", long 81°23'07", Bryan County, Hydrologic Unit 03060203, at bridge on State Highway 67, 5.3 mi west of Richmond Hill, and 8.5 mi upstream from Ogeechee River.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 03...	0830	46	43	5.0	4.8	22.5	24.0	5.7	66
NOV 07...	1420	52	52	5.3	5.3	17.0	30.0	5.6	58
DEC 05...	1005	53	52	5.7	5.6	8.5	8.0	7.9	67
JAN 09...	0930	48	49	5.6	5.1	12.0	11.0	6.1	57
FEB 13...	1215	48	49	5.7	5.6	13.5	21.0	5.9	56
MAR 06...	1430	44	44	5.8	5.5	15.0	24.0	5.6	55
APR 03...	1430	53	52	6.0	6.0	18.0	20.0	4.8	51
MAY 08...	0635	60	70	6.5	6.5	20.0	14.5	6.0	65
JUN 05...	0600	91	93	6.7	6.9	18.5	19.5	5.3	57
JUL 19...	0855	139	135	7.0	7.0	26.5	27.5	5.1	63
AUG 07...	0715	115	111	7.0	7.0	28.0	27.0	6.0	77
SEP 20...	1230	127	128	6.9	6.9	25.0	33.0	4.9	59

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 03...	400	6.0	2.3	--	2	1	0.020	<0.030	0.130	--
NOV 07...	200	4.0	1.1	20	4	1	0.090	0.050	0.150	20
DEC 05...	110	11	2.2	50	3	9	0.040	<0.030	0.100	21
JAN 09...	180	9.0	0.8	--	2	10	0.080	0.060	0.420	15
FEB 13...	240	8.0	1.3	70	4	8	0.110	0.090	0.180	17
MAR 06...	180	8.0	0.5	75	3	<1	0.110	0.160	0.190	18
APR 03...	140	6.0	0.6	50	6	4	0.240	0.040	0.130	20
MAY 08...	110	6.0	0.4	20	11	11	0.480	0.070	0.240	2.3
JUN 05...	70	3.0	0.8	50	16	7	0.620	0.050	0.380	9.0
JUL 19...	65	3.0	1.1	110	20	5	0.610	<0.030	0.590	9.7
AUG 07...	50	2.0	1.2	330	20	3	0.570	<0.030	0.570	9.9
SEP 20...	--	2.0	0.8	20	20	2	0.350	<0.030	0.520	7.0

NORTH NEWPORT RIVER BASIN

02203578 NORTH NEWPORT RIVER AT HALFMOON LANDING, GA.

LOCATION.--Lat 31°40'39", long 81°18'05", Liberty County, Hydrologic Unit 03060204, at Halfmoon Landing, at mile 9.9.

DRAINAGE AREA.--157 mi².

PERIOD OF RECORD.--September 1966 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1970 to September 1976.

pH: July 1970 to September 1976.

WATER TEMPERATURES: July 1970 to September 1976.

DISSOLVED OXYGEN: July 1970 to September 1976.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 45,500 microsiemens Nov. 29, 1975; minimum recorded, 5,650 microsiemens Sept. 1, 1975.

pH: Maximum recorded, 8.1 units Mar. 24, 1975; minimum recorded, 6.5 units July 11, 12, 1971.

WATER TEMPERATURES: Maximum, 33.5°C Sept. 1, 2, 1970; minimum, 6.0°C Jan. 20-24, 1976.

DISSOLVED OXYGEN: Maximum recorded, 12.8 mg/L Feb. 13, 1973; minimum recorded, 1.4 mg/L July 30, 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 03...	1020	28100	26700	7.4	7.3	23.5	28.0	5.3	69
NOV 07...	1530	33000	31600	7.6	7.5	19.5	26.5	6.8	84
DEC 05...	1425	37000	--	7.8	7.6	12.5	18.0	6.9	75
JAN 09...	0720	36000	34500	7.9	7.7	11.5	12.5	7.7	81
FEB 13...	1115	30000	29800	7.6	7.5	16.0	20.0	6.8	76
MAR 06...	1715	30000	29100	7.6	7.5	16.5	28.0	5.4	61
APR 03...	1715	33000	32600	7.6	7.5	18.0	20.5	4.9	59
MAY 08...	0820	37000	39100	7.6	7.5	23.0	18.5	4.6	61
JUN 05...	0725	40000	41600	7.5	7.6	21.0	23.5	6.8	88
JUL 19...	0700	44000	48100	7.4	7.5	28.5	24.5	5.1	76
AUG 07...	1015	45000	47900	7.5	7.6	28.0	28.5	5.0	75
SEP 20...	1030	48000	48800	7.5	7.6	27.5	29.0	4.8	72

NORTH NEWPORT RIVER BASIN

02203578 NORTH NEWPORT RIVER AT HALFMOON LANDING, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 03...	70	19	1.5	--	70	10000	84	<0.020	0.070	0.330	--
NOV 07...	45	5.0	0.9	20	87	12000	9	<0.020	0.060	0.110	7.1
DEC 05...	30	9.0	2.7	<20	96	11000	47	<0.020	<0.030	0.100	11
JAN 09...	30	10	0.3	--	86	13000	42	<0.020	0.150	0.120	9.5
FEB 13...	50	12	0.7	<20	76	11000	26	<0.020	0.040	0.140	8.0
MAR 06...	30	12	0.4	<20	78	11000	12	<0.020	0.210	0.180	16
APR 03...	80	9.0	0.6	<20	81	13000	16	<0.020	<0.030	0.060	10
MAY 08...	60	11	0.6	<20	95	17000	30	<0.020	0.040	0.090	1.9
JUN 05...	30	4.0	1.1	<20	107	15000	12	<0.020	0.040	0.080	7.6
JUL 19...	25	17	1.1	20	125	20000	76	<0.020	0.090	0.170	10
AUG 07...	50	22	1.2	<20	122	20000	45	<0.020	0.240	0.150	12
SEP 20...	20	6.0	0.9	<20	125	18000	13	<0.020	0.040	0.140	15

ALTAMAHA RIVER BASIN

02203800 SOUTH RIVER AT ATLANTA, GA.

LOCATION.--Lat 33°40'46", long 84°18'30", DeKalb County, Hydrologic Unit 03070103, at the bridge on Bouldercrest Road at Atlanta, 0.4 mi southeast of Interstate Highway 285, and 1.1 mi upstream from Sugar Creek.

DRAINAGE AREA.--41.5 mi².

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

REMARKS.--Streamflow includes some water diverted from the Chattahoochee River by DeKalb County and City of Atlanta for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
05...	1010	48	220	218	7.0	6.9	17.0	16.0	7.1	76
NOV										
07...	1410	18	212	216	7.0	6.9	15.0	23.0	8.3	85
DEC										
06...	1340	19	177	187	7.2	7.0	7.0	20.5	9.6	81
JAN										
03...	1415	39	248	257	6.9	6.9	8.5	18.0	9.8	85
FEB										
06...	1430	62	188	194	6.8	7.1	10.5	19.0	9.1	83
MAR										
05...	1440	53	192	203	7.2	6.8	13.5	24.5	7.8	76
APR										
04...	1400	55	224	229	7.1	7.0	12.0	17.0	8.8	84
MAY										
02...	0810	51	215	225	7.0	6.9	18.5	22.0	4.0	44
JUN										
06...	1240	30	219	216	7.1	7.1	22.0	29.0	5.5	65
JUL										
13...	0530	40	125	123	6.7	6.6	23.0	23.0	4.0	48
AUG										
09...	1045	55	135	136	6.8	6.8	22.0	25.5	4.7	55
SEP										
06...	0930	38	180	180	7.2	6.8	22.0	27.0	3.9	46

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
05...	6.0	1.9	--	49	7	0.810	0.660	0.160	--
NOV									
07...	3.0	3.2	520	40	<1	0.530	0.210	0.110	3.4
DEC									
06...	10	2.4	490	41	10	0.830	0.540	0.210	3.2
JAN									
03...	15	4.4	700	53	10	0.660	1.15	0.500	5.2
FEB									
06...	17	5.2	160000	41	6	0.590	0.860	0.120	4.7
MAR									
05...	11	2.4	24000	43	<1	0.680	0.750	0.040	4.0
APR									
04...	11	4.7	160000	55	5	0.470	1.42	0.150	3.9
MAY									
02...	10	6.3	54000	56	13	0.260	1.80	0.150	7.7
JUN									
06...	7.0	3.2	11000	57	9	0.410	1.86	0.120	4.7
JUL									
13...	88	13	>240000	24	62	0.420	0.160	0.160	14
AUG									
09...	44	3.8	>240000	26	36	0.340	0.250	<0.020	6.7
SEP									
06...	8.0	5.6	>240000	32	7	0.100	0.280	0.170	8.5

ALTAMAHA RIVER BASIN

02203965 SOUTH RIVER NEAR LITHONIA, GA.

LOCATION.--Lat 33 39'14", long 84 11'12", DeKalb County, Hydrologic Unit 03070103, at bridge on State Highway 155, 2.0 mi south of State Highway 212, 2.4 mi downstream from Snapfinger Creek, and 6.2 mi southwest of Lithonia.

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

REMARKS.--Streamflow includes some water diverted from the Chattahoochee River by DeKalb County and City of Atlanta for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	GAGE HEIGHT (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 05...	1040	2.12	161	160	7.2	7.2	18.0	20.0	8.3	90
NOV 06...	0940	1.77	245	247	7.3	7.2	14.0	16.5	9.1	90
DEC 07...	1315	0.88	205	211	7.4	7.3	11.0	15.0	10.0	92
JAN 04...	0940	1.92	249	250	7.4	7.4	10.0	15.0	10.8	97
FEB 08...	1330	2.13	153	156	7.4	7.2	12.0	20.0	10.2	96
MAR 08...	0930	--	166	173	7.2	7.1	12.5	9.5	9.6	90
APR 03...	0830	2.10	185	193	7.4	7.5	15.0	8.5	8.8	90
MAY 02...	0850	2.31	208	213	7.4	7.3	20.0	25.0	7.2	81
JUN 05...	0700	--	222	230	7.3	7.5	21.0	17.5	7.6	87
JUL 13...	0630	2.50	120	117	7.0	6.7	24.0	23.0	4.8	59
AUG 09...	1010	2.32	122	121	7.2	7.1	22.0	27.0	6.9	81
SEP 06...	0900	1.82	240	271	7.9	7.6	23.5	27.0	7.7	93

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 05...	19	1.0	--	31	12	1.89	0.060	0.140	--
NOV 06...	2.0	0.9	<20	47	2	5.03	0.250	0.380	2.9
DEC 07...	5.0	1.7	<20	42	6	3.48	<0.030	0.380	3.7
JAN 04...	6.0	1.1	130	54	1	2.76	0.210	0.340	3.1
FEB 08...	13	8.0	4900	31	9	1.38	0.280	0.200	4.5
MAR 08...	--	0.9	790	36	12	1.73	0.250	0.250	2.6
APR 03...	6.0	1.4	70	48	<1	1.19	0.660	0.120	3.7
MAY 02...	13	5.2	790	57	15	0.920	0.500	0.240	4.1
JUN 05...	11	1.4	790	59	10	1.10	0.130	0.100	3.6
JUL 13...	220	10	>240000	25	280	0.650	0.360	0.280	13
AUG 09...	140	3.3	92000	24	127	0.920	0.180	0.040	8.9
SEP 06...	10	0.3	13000	61	10	3.60	0.090	0.250	5.5

ALTAMAHA RIVER BASIN

02204070 SOUTH RIVER AT KLONDIKE ROAD NEAR LITHONIA, GA.

LOCATION.--Lat 33°37'47", long 84°07'43", DeKalb-Rockdale County line, Hydrologic Unit 03070103, at downstream end of pier of bridge on Klondike Road, 1.1 mi south of State Highway 212, 1.2 mi downstream from Pole Bridge Creek, 5.8 mi southwest of Lithonia, and 8.6 mi downstream from Snapfinger Creek.

DRAINAGE AREA.--182 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1983 to current year.

GAGE.--Water-stage recorder. Datum of gage is 660.90 ft above National Geodetic Vertical Datum of 1929 (levels from DeKalb County benchmark).

REMARKS.--No estimated daily discharges. Records good. Streamflow includes some water diverted from the Chattahoochee River by DeKalb County and City of Atlanta for municipal supply.

AVERAGE DISCHARGE.--7 years, 286 ft³/s, 21.34 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft³/s, Mar. 17, 1990, gage height, 13.03 ft in gage well, 14.01 ft, from floodmarks; minimum daily discharge, 48 ft³/s, July 20, 21, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 30, 1963 reached a stage of 11.80 ft, discharge 9,630 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	0300	9,450	(a)	Feb. 17	0145	6,900	10.50
Jan. 21	1430	7,530	10.82	Feb. 19	1115	6,380	10.23
Jan. 25	1515	8,060	11.08	Mar. 17	1800	*12,500	*(b)
Feb. 10	1315	7,610	10.86	Sept. 14	1615	4,180	8.96

Minimum daily discharge, 91 ft³/s, Aug. 29.

(a) 11.72 ft in gage well, 12.55 ft from floodmarks.

(b) 13.03 ft in gage well, 14.01 ft from floodmarks.

ALTAMAHA RIVER BASIN

02204070 SOUTH RIVER AT KLONDIKE ROAD NEAR LITHONIA, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7200	124	148	423	313	318	294	235	222	114	214	348
2	4730	133	141	209	293	428	277	227	217	113	455	207
3	648	129	137	191	284	950	271	217	224	107	554	137
4	412	126	134	198	966	410	259	208	221	100	163	124
5	309	127	135	277	493	348	257	469	186	100	132	120
6	258	128	136	1400	347	334	255	288	178	99	163	120
7	222	151	138	512	365	320	309	213	174	94	118	115
8	200	322	1700	873	310	410	248	206	178	93	279	104
9	181	174	683	426	718	929	240	460	164	103	631	106
10	177	151	488	303	5950	501	325	580	162	97	361	123
11	168	138	285	265	1130	389	1030	269	156	114	162	871
12	164	132	765	243	518	354	318	234	151	257	121	179
13	162	131	830	217	415	335	263	329	146	459	111	161
14	165	128	327	209	368	318	255	243	151	754	127	2270
15	164	263	260	205	346	306	382	224	152	209	111	598
16	152	956	231	205	2440	1700	272	207	163	126	105	225
17	152	217	205	209	3190	9870	245	214	144	120	100	174
18	153	174	205	295	732	3130	229	264	143	140	93	146
19	153	164	336	286	4760	691	219	195	146	187	99	136
20	141	157	289	314	925	518	217	195	135	599	113	140
21	140	152	202	5680	565	449	224	319	128	192	93	138
22	140	148	188	887	547	404	259	214	131	163	170	138
23	137	792	180	482	532	366	250	195	171	206	314	133
24	135	213	176	677	406	348	223	202	135	485	157	122
25	133	170	185	6560	358	329	219	201	123	157	149	117
26	130	160	179	2130	340	308	211	191	126	133	105	115
27	129	157	177	628	330	312	203	465	133	124	99	110
28	129	168	173	459	326	291	792	1140	123	107	94	111
29	129	207	167	435	---	349	425	960	118	103	91	110
30	130	153	177	486	---	384	253	300	114	101	595	113
31	127	---	310	348	---	313	---	242	---	96	1130	---
TOTAL	17370	6345	9687	26032	28267	26412	9224	9906	4715	5852	7209	7611
MEAN	560	212	312	840	1010	852	307	320	157	189	233	254
MAX	7200	956	1700	6560	5950	9870	1030	1140	224	754	1130	2270
MIN	127	124	134	191	284	291	203	191	114	93	91	104
CFSM	3.08	1.17	1.71	4.62	5.55	4.68	1.69	1.76	.86	1.04	1.28	1.40
IN.	3.55	1.30	1.98	5.32	5.78	5.40	1.89	2.02	.96	1.20	1.47	1.56
CAL YR 1989	TOTAL	123447	MEAN	338	MAX	7200	MIN	93	CFSM	1.86	IN	25.23
WTR YR 1990	TOTAL	158630	MEAN	435	MAX	9870	MIN	91	CFSM	2.39	IN	32.42

ALTAMAHA RIVER BASIN

02204070 SOUTH RIVER AT KLONDIKE ROAD NEAR LITHONIA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1983 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: November 1983 to current year.

DISSOLVED OXYGEN: November 1983 to current year.

INSTRUMENTATION.--Water-quality monitor. Water Temperature and Dissolved Oxygen are recorded hourly.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 30.0°C July 19, 20, 21, 1986; minimum recorded, 0.5°C Jan. 21, 1985.

DISSOLVED OXYGEN: Maximum recorded, 13.2 mg/L Jan. 8, 1988; minimum recorded, 0.7 mg/L Mar. 13, 1986.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 29.0°C on several days in July; minimum recorded, 1.0°C Dec. 24.

DISSOLVED OXYGEN: Maximum recorded, 12.5 mg/L Dec. 24; minimum recorded, 3.9 mg/L Aug. 30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
05...	1100	295	151	150	7.1	7.0	18.5	26.5	7.9	86
NOV										
06...	1000	122	225	228	7.2	7.2	13.0	17.0	9.1	88
DEC										
07...	1245	128	193	204	7.4	7.2	10.5	15.5	10.0	91
JAN										
04...	1010	191	199	211	7.2	7.3	10.0	15.0	11.0	99
FEB										
08...	1245	295	150	155	7.4	7.2	12.0	20.0	9.7	91
MAR										
08...	0950	307	150	157	7.2	7.2	12.0	9.5	9.6	89
APR										
03...	0930	269	169	170	7.3	7.3	15.0	8.5	8.2	84
MAY										
02...	0910	234	189	196	7.3	7.3	20.0	27.0	6.7	75
JUN										
05...	0720	187	207	209	7.4	7.4	21.0	20.0	6.7	77
JUL										
13...	0700	775	139	133	7.1	7.1	24.0	23.0	6.3	77
AUG										
09...	0940	564	95	94	7.0	6.9	22.0	26.0	6.5	76
SEP										
06...	0830	122	250	235	7.8	7.5	23.5	24.0	6.6	79

ALTAMAHA RIVER BASIN

02204070 SOUTH RIVER AT KLONDIKE ROAD NEAR LITHONIA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
05...	27	1.0	--	28	18	1.81	0.030	0.150	--
NOV									
06...	4.0	1.2	2300	44	<1	3.77	0.070	0.350	2.7
DEC									
07...	7.0	1.4	<20	41	7	2.79	0.030	0.400	3.4
JAN									
04...	6.0	1.4	20	48	3	2.12	0.110	0.320	3.7
FEB									
08...	16	4.1	1100	32	12	1.74	0.160	0.190	3.0
MAR									
08...	--	0.6	1100	34	14	1.66	0.200	0.200	2.6
APR									
03...	10	1.3	1100	14	8	1.47	0.390	0.140	3.7
MAY									
02...	8.0	2.6	790	52	11	0.950	0.250	0.130	3.6
JUN									
05...	23	1.3	170	54	27	1.47	0.150	0.120	4.6
JUL									
13...	180	3.2	92000	32	270	0.880	0.500	0.210	8.6
AUG									
09...	250	3.6	160000	18	262	0.960	0.100	0.080	9.4
SEP									
06...	24	0.6	54000	60	30	2.81	0.090	0.180	4.4

ALTAMAHA RIVER BASIN

02204070 SOUTH RIVER AT KLONDIKE ROAD NEAR LITHONIA, GA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.5	19.0	17.0	15.0	10.5	9.0	11.5	8.5	10.5	8.5	13.5	12.0
2	20.0	19.5	15.0	14.0	11.0	9.0	8.5	7.0	13.0	10.5	13.0	12.0
3	20.5	19.0	14.0	12.5	10.0	7.5	9.0	7.0	15.0	13.0	13.5	11.5
4	20.5	19.0	13.0	11.0	7.5	6.0	10.5	8.5	16.5	15.0	14.0	12.0
5	20.0	18.0	13.5	10.5	8.5	6.0	12.0	10.5	15.0	12.0	13.5	11.5
6	21.0	18.5	15.0	12.5	10.0	7.0	12.0	11.5	12.0	10.5	14.5	12.0
7	21.0	19.0	16.0	14.0	11.5	9.0	12.0	11.0	13.5	12.0	14.5	12.5
8	20.0	18.0	17.0	16.0	11.0	9.0	11.0	9.5	13.0	12.0	13.5	10.0
9	17.5	16.0	17.0	15.5	9.0	8.0	9.5	9.0	13.5	12.5	10.5	9.0
10	16.5	14.5	15.5	13.5	8.5	7.5	10.0	8.5	14.5	13.0	14.0	10.5
11	17.5	14.5	14.5	12.5	9.0	8.0	10.0	8.5	12.5	11.0	17.0	14.5
12	18.0	15.5	15.0	13.0	10.5	9.0	10.0	8.0	12.0	10.5	18.0	15.5
13	19.0	16.5	15.5	13.0	9.0	7.0	8.0	6.5	12.5	10.5	18.0	16.0
14	19.0	18.0	15.5	14.0	7.0	6.0	8.0	6.0	13.5	11.5	18.5	16.0
15	20.0	18.5	16.5	14.5	7.5	6.0	9.5	7.0	15.0	13.0	18.0	17.5
16	20.5	19.0	17.0	13.5	7.0	5.0	11.0	8.5	16.0	15.5	17.5	16.5
17	21.5	20.0	13.0	10.0	5.5	4.5	12.5	10.0	15.5	13.5	16.5	15.5
18	21.0	19.5	10.5	9.0	6.0	4.5	13.5	12.0	13.5	10.0	15.5	14.0
19	19.0	14.5	11.5	9.5	6.0	5.5	14.0	13.0	11.5	8.5	15.5	14.0
20	14.5	12.0	12.5	10.0	6.5	5.0	13.5	12.5	13.0	11.5	14.0	12.5
21	13.0	10.5	13.5	11.0	6.5	5.0	13.0	12.0	12.5	11.5	13.5	11.0
22	15.0	11.5	12.0	10.5	5.0	3.5	12.0	10.5	13.0	11.5	14.5	12.0
23	16.0	13.5	10.5	8.0	3.0	1.5	10.5	9.5	14.0	12.5	16.0	13.0
24	15.5	13.5	9.0	7.5	3.0	1.0	11.0	10.5	12.5	11.0	17.0	15.0
25	15.5	13.0	9.5	7.5	3.5	2.5	11.0	10.5	11.0	9.0	18.0	16.0
26	15.0	13.0	12.5	9.5	5.0	3.0	10.5	9.0	10.0	8.5	17.0	14.5
27	15.0	13.0	15.0	12.0	6.0	4.0	9.0	8.0	11.0	8.5	15.0	13.5
28	15.5	13.5	16.5	14.5	7.0	5.0	9.5	8.0	12.5	10.0	15.0	13.5
29	16.0	13.5	15.0	11.5	7.5	5.5	11.0	9.5	---	---	14.5	13.5
30	17.0	14.0	11.0	9.5	10.5	7.0	11.0	9.5	---	---	13.5	12.5
31	17.5	16.0	---	---	11.5	9.5	10.0	8.5	---	---	15.0	12.5
MONTH	21.5	10.5	17.0	7.5	11.5	1.0	14.0	6.0	16.5	8.5	18.5	9.0

ALTAMAHA RIVER BASIN

02204070 SOUTH RIVER AT KLONDIKE ROAD NEAR LITHONIA, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

ALTAMAHA RIVER BASIN

02204070 SOUTH RIVER AT KLONDIKE ROAD NEAR LITHONIA, GA.—Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.8	7.0	9.5	8.2	10.5	10.0	10.5	9.6	10.3	10.0	9.5	9.2
2	---	---	9.4	8.8	10.4	9.8	11.2	10.5	9.9	9.4	9.5	9.2
3	7.6	7.3	10.1	9.0	10.3	9.9	11.2	10.9	9.3	9.1	9.3	8.8
4	7.8	7.4	10.5	9.2	11.0	10.4	10.9	10.3	9.1	8.1	9.6	8.9
5	7.6	7.4	10.7	9.4	11.1	10.5	10.3	9.8	10.1	9.0	9.8	9.2
6	7.6	7.3	9.8	8.8	10.8	10.1	10.0	9.4	10.6	10.1	9.7	9.2
7	7.3	7.0	9.4	8.6	10.2	9.6	10.1	9.9	10.1	9.6	9.7	9.1
8	7.5	7.1	8.6	6.7	10.2	9.1	10.6	10.1	9.9	9.4	10.3	9.3
9	8.1	7.6	8.2	7.7	10.7	7.3	10.9	10.6	9.7	9.2	10.5	9.7
10	8.4	8.1	9.3	8.3	10.7	10.5	10.9	10.6	9.9	8.7	9.7	9.0
11	8.5	8.1	9.6	8.9	10.6	10.4	11.0	10.6	9.4	8.8	9.1	8.6
12	8.2	7.8	9.5	8.7	10.3	9.7	10.8	10.5	9.7	9.3	8.8	8.4
13	7.9	7.7	9.5	8.7	10.6	10.1	11.6	10.8	9.8	9.3	8.7	8.3
14	7.8	7.6	9.3	8.6	11.1	10.6	11.6	11.3	9.6	9.2	8.8	8.2
15	7.8	7.4	8.9	8.0	11.1	10.7	11.5	11.0	9.3	8.8	8.4	8.2
16	7.5	7.3	8.6	5.6	11.3	10.6	11.0	10.7	8.8	8.3	8.5	8.1
17	7.4	7.2	10.0	8.7	11.6	11.3	10.6	10.1	8.7	7.8	---	---
18	7.4	7.3	10.5	10.0	11.5	11.2	10.0	9.5	10.1	8.8	---	---
19	8.5	7.4	10.3	9.7	11.4	11.2	9.6	9.2	10.7	9.2	8.2	7.6
20	9.2	8.5	10.0	9.6	11.2	11.1	9.9	9.5	9.1	8.8	9.3	8.2
21	9.6	9.2	9.6	9.1	11.3	11.0	9.9	8.7	9.5	8.8	---	---
22	9.4	8.8	9.6	9.2	11.9	11.3	9.7	8.9	9.5	8.8	9.5	9.0
23	8.9	8.6	10.3	9.7	12.2	11.8	10.1	9.7	8.9	7.6	9.2	8.7
24	9.1	8.7	10.7	10.2	12.5	12.0	10.1	9.9	9.6	8.8	8.9	8.5
25	9.2	8.7	10.7	10.3	12.2	11.9	10.0	8.9	10.0	9.3	8.5	8.1
26	9.4	8.8	10.3	9.4	12.0	11.7	9.8	8.9	10.5	10.0	8.8	8.1
27	9.5	8.9	9.5	8.8	11.8	11.6	10.2	9.9	10.4	9.9	9.2	8.9
28	9.5	8.8	8.9	8.4	11.5	11.2	10.4	10.0	9.9	9.4	9.1	8.7
29	9.5	8.7	9.4	8.6	11.4	11.1	9.9	9.7	---	---	9.0	8.6
30	9.4	8.5	10.2	9.5	11.2	10.4	9.9	9.4	---	---	9.0	8.8
31	9.1	8.3	---	---	10.5	9.7	10.4	9.9	---	---	9.1	8.7
MONTH	9.6	7.0	10.7	5.6	12.5	7.3	11.6	8.7	10.7	7.6	10.5	7.6

ALTAMAHA RIVER BASIN

02204070 SOUTH RIVER AT KLONDIKE ROAD NEAR LITHONIA, GA.--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

ALTAMAHA RIVER BASIN

02204520 SOUTH RIVER AT SNAPPING SHOALS, GA.

LOCATION.--Lat 33°29'04", long 83°57'29", Newton-Henry County line, Hydrologic Unit 03070103, at bridge on State Highway 81, 0.2 mi south of State Highway 212, and 0.5 mi upstream from Snapping Shoals Creek.

DRAINAGE AREA.--465 mi².

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

REMARKS.--Streamflow includes some water diverted from the Chattahoochee River by DeKalb County and City of Atlanta for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	GAGE HEIGHT (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 05...	1220	7.22	81	88	7.0	6.7	19.0	28.0	7.5	82
NOV 06...	1140	5.68	149	143	7.0	7.2	12.0	17.0	9.5	90
DEC 07...	0930	5.79	140	143	7.3	7.2	8.0	14.5	10.6	91
JAN 04...	1130	6.55	112	119	7.1	7.1	8.0	17.0	11.1	95
FEB 08...	1015	7.07	106	105	7.2	7.2	11.5	13.0	10.4	96
MAR 08...	1130	7.06	94	95	7.0	7.1	12.0	9.5	9.8	91
APR 03...	1015	7.21	--	94	7.2	7.2	15.0	11.0	8.4	--
MAY 02...	1030	6.97	111	114	7.1	7.1	21.5	29.0	6.7	77
JUN 05...	0850	6.68	130	132	7.3	7.3	22.0	21.0	6.7	78
JUL 13...	0745	6.40	225	223	7.5	7.4	26.0	25.0	5.6	71
AUG 09...	0815	7.29	150	150	7.2	7.4	23.5	22.5	6.6	79
SEP 06...	0705	6.52	160	159	7.4	7.3	25.0	20.5	6.5	80

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 05...	45	16	1.0	--	17	--
NOV 06...	6.0	15	1.1	700	28	1
DEC 07...	7.0	<5	1.7	330	32	6
JAN 04...	13	11	0.9	50	25	4
FEB 08...	23	15	1.0	1300	20	15
MAR 08...	--	10	0.6	230	18	20
APR 03...	18	17	0.5	170	21	8
MAY 02...	11	<5	1.3	480	28	8
JUN 05...	17	10	1.1	230	33	17
JUL 13...	15	8	1.2	70	53	15
AUG 09...	31	15	1.0	1300	34	36
SEP 06...	36	11	0.4	1200	36	28

ALTAMAHA RIVER BASIN

02204520 SOUTH RIVER AT SNAPPING SHOALS, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
05...	0.740	<0.030	--	0.50	1.2	0.130	--
NOV							
06...	1.81	0.080	0.52	0.60	2.4	0.150	2.1
DEC							
07...	1.96	<0.030	--	<0.10	--	0.180	2.5
JAN							
04...	1.14	0.070	0.13	0.20	1.3	0.190	2.3
FEB							
08...	0.830	0.050	0.15	0.20	1.0	0.120	2.1
MAR							
08...	0.920	0.100	0.10	0.20	1.1	0.190	3.8
APR							
03...	0.910	<0.030	--	0.10	1.0	0.130	3.5
MAY							
02...	1.13	0.330	0.25	0.58	1.7	0.120	3.1
JUN							
05...	1.03	0.050	0.05	0.10	1.1	0.100	3.0
JUL							
13...	1.63	0.330	0.37	0.70	2.3	0.120	3.2
AUG							
09...	1.64	<0.030	--	0.40	2.0	0.030	6.3
SEP							
06...	1.39	0.070	0.03	0.10	1.5	0.100	4.1

ALTAMAHA RIVER BASIN

02206500 YELLOW RIVER NEAR SNELLVILLE, GA.

LOCATION.--Lat 33°51'11", long 84°04'45", Gwinnett County, Hydrologic Unit 03070103, on left bank 40 ft downstream from McDaniels Bridge on Killian Hill Road (revised), 3.2 mi west of Snellville, 4 mi downstream from Sweetwater Creek and 7.5 mi upstream from Stone Mountain Creek.

DRAINAGE AREA.--134 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to September 1971. October 1987 to current year.

REVISED RECORDS.--WSP 1032: 1943(M), WSP 1112: 1944-45(M), WSP 1384: 1949(M), 1952(M), drainage area.

GAGE.--Water-stage recorder. Datum of gage is 806.14 ft above National Geodetic Vertical Datum of 1929 (levels by the Georgia Department of Transportation). Prior to Nov. 4, 1952, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 22, 23, 25, Nov. 23-30, Mar. 17-21, Apr. 12-17, and July 9, 10. Records good to fair, except those for the period of estimated daily discharges, which are fair to poor.

AVERAGE DISCHARGE.--32 years (1942-1971, 1988-90), 175 ft³/s, 17.74 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft³/s, Mar. 17, 1990, gage height, 19.67, from floodmarks and based on rating curve extended above 6,600 ft³/s, on basis of contracted-opening measurement of peak flow; minimum discharge, 1.5 ft³/s, Oct. 9, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 2,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	2300	6,460	16.20	Feb. 19	1500	2,170	8.50
Jan. 25	2115	3,590	12.37	Mar. 17	unknown	*12,600	*19.67
Feb. 10	1100	3,200	11.57	Aug. 23	1845	2,960	10.86
Feb. 17	0645	4,130	13.18				

Minimum daily discharge, 55 ft³/s, July 7.

ALTAMAHA RIVER BASIN

02206500 YELLOW RIVER NEAR SNELLVILLE, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4270	110	144	582	260	248	270	212	129	63	76	201
2	3700	110	150	309	247	322	254	196	138	63	125	138
3	808	109	145	228	243	656	240	185	202	60	148	111
4	588	107	137	241	679	400	238	173	184	59	78	98
5	412	109	139	317	568	304	238	199	143	59	80	93
6	283	146	126	1130	327	273	243	173	123	60	132	88
7	227	174	134	662	300	259	261	164	115	55	80	81
8	191	456	996	629	256	414	241	157	115	64	219	76
9	168	251	764	407	653	697	235	261	114	130	390	81
10	154	165	583	314	2640	502	244	367	105	72	259	93
11	155	146	344	264	977	356	507	251	100	63	146	349
12	143	131	647	241	491	314	320	218	95	90	97	188
13	138	128	903	216	349	286	290	240	91	223	80	114
14	147	122	440	206	300	266	260	218	89	438	94	961
15	143	414	304	201	272	251	280	186	88	301	98	707
16	137	1490	256	192	1310	926	250	168	88	148	75	215
17	140	767	221	183	2890	8000	220	159	91	94	65	147
18	145	328	212	240	828	5400	210	159	90	90	65	153
19	131	247	278	229	1870	1600	198	149	86	140	60	169
20	127	220	263	314	960	680	195	148	83	376	59	171
21	128	220	213	1610	540	540	199	182	75	185	57	162
22	130	227	189	768	471	459	217	155	75	148	156	370
23	125	730	172	391	449	354	211	140	83	155	2110	177
24	123	360	161	486	352	327	201	137	76	109	838	104
25	115	225	166	2930	304	308	192	132	71	90	305	94
26	112	190	169	1980	277	290	182	122	69	83	301	89
27	107	180	170	690	260	295	179	139	66	79	265	79
28	105	175	167	479	252	270	350	270	72	72	227	76
29	104	170	172	404	---	316	323	227	62	68	202	77
30	105	155	219	395	---	327	236	158	62	65	337	76
31	105	---	331	300	---	291	---	137	---	62	361	---
TOTAL	13466	8362	9315	17538	19325	25931	7484	5782	2980	3764	7585	5538
MEAN	434	279	300	566	690	836	249	187	99.3	121	245	185
MAX	4270	1490	996	2930	2890	8000	507	367	202	438	2110	961
MIN	104	107	126	183	243	248	179	122	62	55	57	76
CFSM	3.24	2.08	2.24	4.22	5.15	6.24	1.86	1.40	.74	.90	1.83	1.38
IN.	3.74	2.32	2.59	4.87	5.36	7.20	2.08	1.61	.83	1.04	2.11	1.54
CAL YR 1989	TOTAL	108421	MEAN	297	MAX	4270	MIN	82	CFSM	2.22	IN	30.10
WTR YR 1990	TOTAL	127070	MEAN	348	MAX	8000	MIN	55	CFSM	2.60	IN	35.28

ALTAMAHA RIVER BASIN

02206500 YELLOW RIVER NEAR SNELLVILLE, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1969 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 06...	0850	107	149	150	6.9	7.1	12.5	15.0	8.9	86
JAN 04...	0840	204	110	114	6.9	7.1	9.0	13.0	10.4	92
MAR 08...	1420	273	100	100	7.0	7.1	10.5	8.5	10.1	91
MAY 02...	1400	196	139	144	7.3	7.3	22.0	32.0	8.2	96
JUL 11...	0630	63	215	227	--	7.3	25.0	25.5	6.8	85
AUG 08...	0500	117	215	210	7.0	7.5	23.0	22.0	7.1	85
SEP 05...	0500	97	190	192	--	7.4	23.0	19.0	8.0	96

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 06...	6.0	1.0	70	36	1.46	0.070	0.100	3.0
JAN 04...	23	1.4	20	22	1.12	0.090	0.110	2.8
MAR 08...	--	0.8	170	25	1.12	0.110	0.180	2.3
MAY 02...	8.0	0.7	490	35	1.57	0.040	0.080	3.1
JUL 11...	5.0	0.3	490	48	1.87	<0.030	0.080	4.3
AUG 08...	19	1.4	4600	47	2.08	0.030	0.050	3.9
SEP 05...	7.0	0.2	490	47	1.77	0.050	0.070	4.6

ALTAMAHA RIVER BASIN

02207300 YELLOW RIVER AT MILSTEAD, GA.

LOCATION.--Lat 33°41'23", long 83°59'49", Rockdale County, Hydrologic Unit 03070103, at bridge on State Highway 20 at Milstead, 2.2 mi northeast of Conyers.

DRAINAGE AREA.--236 mi², approximately.

PERIOD OF RECORD.--July 1974 to current year.

REVISED RECORDS.--WDR GA-84-1: Drainage Area.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
05...	1140	880	70	68	7.1	6.9	19.0	28.0	8.1	89
NOV										
06...	1100	175	124	121	7.1	7.1	12.0	17.0	9.1	86
DEC										
07...	0820	258	102	105	7.3	7.1	7.5	11.5	10.6	90
JAN										
04...	1040	390	83	95	7.2	7.1	8.0	16.5	11.2	96
FEB										
08...	0915	550	83	82	7.2	7.1	11.5	10.0	10.8	101
MAR										
08...	1030	505	85	84	7.3	7.1	12.0	9.5	10.2	95
APR										
03...	1330	490	87	88	7.0	7.3	15.0	12.0	8.4	86
MAY										
02...	0950	350	105	106	7.2	7.2	21.0	28.0	7.3	84
JUN										
05...	0800	285	109	107	7.3	7.2	22.0	21.0	6.8	80
JUL										
16...	0830	290	90	90	7.3	7.1	24.0	24.0	6.8	82
AUG										
09...	0855	--	64	61	7.0	6.9	23.0	25.0	6.7	80
SEP										
06...	0800	145	130	131	7.4	7.1	24.0	23.0	6.7	82

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	
OCT									
05...	64	1.1	--	13		0.490	<0.030	0.070	--
NOV									
06...	7.0	1.0	3000	30		1.17	<0.030	0.080	2.3
DEC									
07...	16	1.8	80	28		0.800	0.030	0.030	2.3
JAN									
04...	22	1.4	170	21		0.920	0.060	0.120	5.0
FEB									
08...	27	1.1	50	18		0.880	0.060	0.040	2.2
MAR									
08...	--	0.9	170	19		0.950	0.100	0.130	2.1
APR									
03...	13	0.2	330	22		0.810	<0.030	0.150	3.9
MAY									
02...	12	0.7	460	29		0.820	0.050	0.070	2.5
JUN									
05...	25	1.0	490	30		0.780	0.060	0.050	2.9
JUL									
16...	28	0.8	1300	22		0.460	<0.030	0.060	4.3
AUG									
09...	230	2.3	35000	15		0.410	0.070	<0.020	58
SEP									
06...	12	0.4	490	34		0.990	0.060	0.060	3.6

ALTAMAHA RIVER BASIN

02208005 YELLOW RIVER NEAR STEWART, GA.

LOCATION.--Lat 33°26'26", long 83°52'43", Newton County, Hydrologic Unit 03070103, at bridge on State Highway 212, 2.5 mi northwest of Stewart.

DRAINAGE AREA.--440 mi², approximately.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 05...	1240	3400	57	55	6.8	6.6	19.0	29.0	7.5	82
NOV 06...	1200	320	99	97	7.1	7.1	12.0	17.0	9.7	91
DEC 07...	1000	450	88	90	7.2	7.0	7.5	14.5	10.8	91
JAN 04...	1150	750	75	78	7.0	7.0	8.0	17.5	11.4	97
FEB 08...	1045	1170	69	69	7.1	7.1	11.5	13.5	10.3	95
MAR 08...	1150	1100	71	71	7.1	7.0	12.5	9.0	10.1	94
APR 03...	1045	1100	--	72	7.2	7.2	15.5	11.0	9.2	--
MAY 02...	1100	690	84	84	7.2	7.1	21.5	29.0	7.7	89
JUN 05...	0900	580	99	96	7.2	7.3	22.0	22.0	7.4	86
JUL 16...	0645	650	75	73	7.1	7.1	24.0	21.0	7.2	87
AUG 09...	0730	470	100	99	7.1	7.3	23.0	22.0	7.2	85
SEP 06...	0645	250	95	93	7.3	7.3	24.0	20.0	7.4	90

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 05...	48	44	1.0	--	10	27
NOV 06...	8.0	8	0.9	40	23	<1
DEC 07...	11	15	1.5	130	22	10
JAN 04...	23	<5	1.1	170	17	8
FEB 08...	32	12	1.0	170	18	6
MAR 08...	--	6	0.4	130	17	--
APR 03...	18	14	0.2	220	19	15
MAY 02...	17	<5	0.8	230	21	20
JUN 05...	25	6	0.7	410	27	31
JUL 16...	82	--	1.0	490	18	59
AUG 09...	52	--	1.3	1300	26	63
SEP 06...	20	--	0.2	330	24	20

ALTAMAHA RIVER BASIN

02208005 YELLOW RIVER NEAR STEWART, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
05...	0.340	<0.030	--	0.50	0.84	0.080	--
NOV							
06...	0.750	0.040	0.56	0.60	1.3	0.080	2.1
DEC							
07...	0.780	<0.030	--	<0.10	--	0.030	1.9
JAN							
04...	0.690	0.030	0.17	0.20	0.89	0.040	3.5
FEB							
08...	0.680	0.040	0.08	0.12	0.80	0.040	2.1
MAR							
08...	0.720	0.090	0.11	0.20	0.92	0.130	2.2
APR							
03...	0.620	<0.030	--	0.15	0.77	0.070	2.9
MAY							
02...	0.690	<0.030	--	0.20	0.89	0.090	3.0
JUN							
05...	0.840	<0.030	--	0.20	1.0	0.070	3.4
JUL							
16...	0.480	<0.030	--	--	--	0.080	4.4
AUG							
09...	0.710	<0.030	--	--	--	<0.020	4.9
SEP							
06...	0.660	<0.030	--	--	--	0.090	4.3

ALTAMAHA RIVER BASIN

02208450 ALCOVY RIVER ABOVE COVINGTON, GA.

LOCATION.--Lat 33°38'24", long 83°46'45", Newton County, Hydrologic Unit 03070103, at bridge on Alcovy Road, 400 ft downstream from city of Covington water works intake structure, 200 ft downstream from Strouds Creek, 200 ft upstream from Georgia Railroad bridge, and 6 mi northeast of Covington.

DRAINAGE AREA.--185 mi², approximately, includes that of Strouds Creek.

PERIOD OF RECORD.--January 1972 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 650 ft above National Geodetic Vertical Datum of 1929 (from topographic map). Prior to Oct. 1986, at site 400 ft upstream at same datum.

REMARKS.--Estimated daily discharges: May 23-29 and July 16-30. Records good, except those for the periods of missing gage-height record May 23-29 and July 16-30, which are poor. Discharge affected by diversions due to irrigation and by the city of Covington.

AVERAGE DISCHARGE.--18 years, 294 ft³/s, 17.91 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,620 ft³/s, Mar. 18, 1990, gage height 14.49 ft; maximum gage height, 14.79 ft, Mar. 16, 1976; minimum daily discharge, 0.56 ft³/s, July 21-22, 1986, but may have been less during a period of extensive diversion, June 19 through Sept. 12, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 3	0300	4,260	12.27	Feb. 20	0100	2,710	10.81
Jan. 27	0200	2,520	10.59	Mar. 18	0100	*7,620	*14.49
Feb. 11	1600	2,320	10.35				

Minimum daily discharge, 32 ft³/s, July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1700	142	159	279	456	375	417	266	162	59	155	127
2	3470	142	154	324	391	374	414	232	157	53	210	124
3	3480	144	150	269	361	471	378	212	216	49	795	99
4	1510	143	145	223	356	607	348	202	260	45	1410	89
5	868	142	143	220	368	524	331	242	223	42	648	80
6	619	141	143	470	439	408	323	262	173	39	300	74
7	481	145	146	741	407	358	329	230	148	37	249	72
8	395	162	254	745	339	350	330	200	136	34	198	68
9	312	182	478	654	340	489	310	203	136	32	170	65
10	250	247	648	524	697	626	303	247	138	59	150	65
11	219	196	594	415	2050	630	437	280	129	56	130	70
12	203	165	481	340	1490	517	427	235	112	46	114	70
13	192	152	506	291	852	423	375	201	102	48	108	71
14	188	148	541	259	624	375	320	193	97	70	102	149
15	186	155	501	240	492	347	309	188	94	104	171	345
16	182	217	370	228	620	395	316	176	88	100	182	365
17	177	299	303	220	1390	3750	300	167	86	93	235	218
18	176	396	263	224	1740	6470	276	163	87	90	167	124
19	182	308	260	240	1980	2570	259	154	83	98	117	101
20	181	206	268	241	2420	1160	250	149	75	100	98	90
21	167	181	265	416	1480	868	252	240	68	130	95	83
22	159	174	240	1160	929	738	258	219	66	190	102	80
23	157	217	215	1090	749	650	259	180	64	220	122	116
24	153	269	206	717	633	575	249	165	66	200	253	131
25	149	282	206	985	542	507	238	155	60	190	373	91
26	145	216	200	1950	463	468	228	145	56	190	211	77
27	142	192	191	2090	408	442	219	170	58	170	145	73
28	141	183	188	1070	384	423	225	190	58	160	121	69
29	140	179	185	740	---	413	287	215	65	140	105	67
30	142	169	184	605	---	428	318	284	67	120	114	66
31	143	---	202	534	---	435	---	196	---	96	111	---
TOTAL	16609	5894	8789	18504	23400	27166	9285	6361	3330	3060	7461	3319
MEAN	536	196	284	597	836	876	310	205	111	98.7	241	111
MAX	3480	396	648	2090	2420	6470	437	284	260	220	1410	365
MIN	140	141	143	220	339	347	219	145	56	32	95	65
CFSM	2.90	1.06	1.54	3.23	4.52	4.74	1.68	1.11	.60	.53	1.30	.60
IN.	3.34	1.19	1.77	3.72	4.71	5.46	1.87	1.28	.67	.62	1.50	.67
CAL YR 1989	TOTAL	92003	MEAN	252	MAX	3480	MIN	55	CFSM	1.36	IN	18.50
WTR YR 1990	TOTAL	133178	MEAN	365	MAX	6470	MIN	32	CFSM	1.97	IN	26.78

ALTAMAHA RIVER BASIN

02209260 ALCOVY RIVER ABOVE STEWART, GA.

LOCATION.--Lat 33°26'58", long 83°49'42", Newton County, Hydrologic Unit 03070103, at bridge on Newton Factory Bridge Road, 2.6 mi northeast of Stewart.

DRAINAGE AREA.--250 mi², approximately.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	GAGE HEIGHT (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 05...	1300	6.90	39	36	6.6	6.4	19.0	28.5	8.6	94
NOV 06...	1230	5.59	56	54	7.1	7.0	11.5	18.0	10.0	93
DEC 07...	1030	5.61	50	51	7.2	6.7	7.0	15.0	11.1	92
JAN 04...	1210	5.86	50	50	6.9	6.9	7.0	17.0	11.8	98
FEB 08...	1115	6.05	45	44	7.0	7.1	12.0	14.0	10.3	97
MAR 08...	1210	5.94	45	45	7.0	6.8	12.5	9.5	10.2	95
APR 03...	1130	5.98	--	47	7.1	7.1	15.5	11.5	9.4	--
MAY 02...	1240	5.70	54	53	7.2	7.2	21.0	31.0	8.7	99
JUN 05...	0920	5.47	53	52	7.1	7.2	21.0	23.0	8.8	101
JUL 16...	0615	3.12	60	57	6.9	7.1	24.0	21.0	7.1	86
AUG 09...	0700	4.87	68	59	7.1	7.4	24.0	22.0	7.3	88
SEP 06...	0615	3.12	60	59	7.3	7.2	24.0	20.5	7.6	92

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 05...	44	1.1	--	6	27	0.170	<0.030	0.110	--
NOV 06...	6.0	1.2	80	18	<1	0.150	<0.030	0.090	2.9
DEC 07...	8.0	2.0	130	16	6	0.330	<0.030	0.030	2.0
JAN 04...	13	1.4	80	12	5	0.320	0.040	0.050	3.0
FEB 08...	20	0.7	80	12	5	0.270	<0.030	0.030	3.1
MAR 08...	--	0.3	230	13	12	0.280	0.090	0.140	--
APR 03...	15	0.3	220	14	11	0.250	<0.030	0.060	3.9
MAY 02...	13	0.8	70	17	10	0.280	<0.030	0.060	2.8
JUN 05...	27	0.6	110	15	25	0.280	<0.030	0.060	3.7
JUL 16...	16	0.5	490	20	10	0.270	<0.030	0.090	4.4
AUG 09...	19	1.1	270	19	8	0.310	<0.030	0.090	4.1
SEP 06...	16	0.2	170	20	8	0.250	<0.030	0.070	3.7

ALTAMAHA RIVER BASIN

02210500 OCMULGEE RIVER NEAR JACKSON, GA.

LOCATION.--Lat 33°18'27", long 83°50'18", Butts-Jasper County line, Hydrologic Unit 03070103, on right bank 500 ft upstream from bridge on State Highway 16, 0.5 mi upstream from Yellow Water Creek, 1 mi downstream from Lloyd Shoals Dam, and 7 mi east of Jackson.

DRAINAGE AREA.--1,420 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1906 to September 1915, August 1939 to September 1960, October 1975 to September 1982, March 1987 to current year.

GAGE.--Water stage recorder. Datum of gage is 419.29 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1913, staff gages; Jan. 1 to Dec. 31, 1913, water-stage recorder; Jan. 1, 1914 to Dec. 31, 1915, staff gage; and Aug. 1, 1939 to Sept. 30, 1960 and Oct. 1, 1975 to Sept. 30, 1982, water-stage recorder, all at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lloyd Shoals Reservoir (see "Lakes and Reservoirs in the Altamaha River Basin," station 02210000).

AVERAGE DISCHARGE.--40 years (1906-15, 1939-60, 1975-82, 1988-90), 1,722 ft³/s, 16.47 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,600 ft³/s, Nov. 28, 1948, gage height, 23.9; minimum daily discharge, 18 ft³/s, Nov. 20, 1910.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 26.8 ft, Dec. 11, 1919, from graph based on gage readings, discharge, 69,000 ft³/s, by computation of flow over dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 46,300 ft³/s, Mar. 18; gage height, 20.96 ft; minimum daily discharge, 360 ft³/s, June 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	20700	915	2060	2100	3180	2930	1640	1540	1190	374	1130	2030		
2	25000	2000	1440	2270	3210	2050	2820	1810	928	384	1070	1420		
3	23900	1110	1140	1670	3150	3030	2250	1650	1090	387	993	674		
4	16300	1080	1950	2270	3130	3150	2130	1860	1080	389	1610	1870		
5	8830	1010	1750	1180	3130	3150	2370	1040	1130	406	1010	2130		
6	5130	1500	948	2650	3130	3140	1550	1750	1150	427	1570	1230		
7	3850	1360	1140	3230	3110	3120	2120	1470	1190	422	647	1170		
8	1620	1580	2380	3290	3100	3130	2130	1280	1110	419	644	879		
9	620	1490	3090	3260	3090	3100	1840	1700	824	417	1360	644		
10	620	1290	3110	3250	3160	3150	2290	2070	842	416	2880	1270		
11	658	951	3110	3240	4690	3150	2300	2590	609	417	1420	1100		
12	791	993	3120	3230	9970	3150	2900	1450	609	417	1400	1090		
13	1150	1110	3130	3210	8510	2820	2970	1700	612	422	802	1630		
14	1210	1040	3140	3200	6320	2850	2630	1540	617	431	922	1430		
15	632	1600	3130	3180	4080	2890	1750	1570	620	903	823	2140		
16	1800	2190	3120	3170	4290	2910	1780	942	618	1090	824	2850		
17	2120	2880	3100	2940	10400	23100	1890	1010	609	1220	658	2860		
18	653	1710	3080	1530	15500	44300	1470	1470	910	671	655	2500		
19	947	873	3080	2110	14400	36300	1390	1050	853	974	655	865		
20	895	1580	2840	2260	19000	18300	1830	1240	860	2470	655	1190		
21	667	1670	2230	3120	14500	8370	1510	2440	620	2320	655	903		
22	665	1450	2430	3210	9170	4000	1180	2140	621	2900	998	1170		
23	1270	1540	1330	3250	5650	3080	1700	1070	620	2170	610	630		
24	1140	1960	1010	4360	4080	3270	1370	1050	614	2110	1470	980		
25	1180	1940	1570	6540	3040	3230	1290	813	820	1250	2770	967		
26	997	980	2170	17200	3070	3170	1310	665	626	1200	959	790		
27	912	1890	2120	17100	3050	3180	1310	1790	455	644	827	814		
28	639	2240	2080	10100	3040	3160	1420	2560	370	460	1060	898		
29	633	2120	2130	7110	---	3140	2070	2940	369	453	658	612		
30	1070	1660	1510	4460	---	3130	1710	2310	360	874	1100	609		
31	1250	---	2090	3190	---	2960	---	1300	---	795	2240	---		
TOTAL	127849	45712	70528	132880	174150	210410	56920	49810	22926	28232	35075	39345		
MEAN	4124	1524	2275	4286	6220	6787	1897	1607	764	911	1131	1312		
MAX	25000	2880	3140	17200	19000	44300	2970	2940	1190	2900	2880	2860		
MIN	620	873	948	1180	3040	2050	1180	665	360	374	610	609		
CAL YR 1989	TOTAL	733680	MEAN	2010	MAX	25000	MIN	455	MEAN†	2009	CFSM†	1.41	IN†	19.20
WTR YR 1990	TOTAL	993837	MEAN	2723	MAX	44300	MIN	360	MEAN†	2692	CFSM†	1.90	IN†	25.73

†ADJUSTED FOR CHANGE IN CONTENTS IN LLOYD SHOALS RESERVOIR.

ALTAMAHA RIVER BASIN

02210500 OCMULGEE RIVER NEAR JACKSON, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—July 1974 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 05...	1330	7470	50	55	6.8	6.5	21.0	27.0	9.5	108
NOV 06...	1310	2880	--	71	6.9	6.6	15.5	20.5	5.4	--
DEC 07...	1130	667	80	73	7.1	6.8	11.0	15.5	8.3	76
JAN 04...	1240	2780	85	86	6.8	6.9	6.0	17.0	10.6	86
FEB 08...	1200	3100	63	58	6.9	6.9	12.0	17.0	9.5	89
MAR 08...	1240	3130	64	63	6.7	6.6	11.5	9.5	7.2	66
APR 03...	1215	2820	58	58	6.8	6.9	15.5	13.0	8.2	84
MAY 02...	1215	2410	75	76	6.9	6.8	18.5	30.0	6.0	65
JUN 05...	1020	520	84	82	6.8	6.7	22.5	26.0	4.0	47
JUL 16...	0530	715	100	97	--	6.9	25.0	18.5	2.7	33
AUG 09...	0630	644	100	91	6.5	6.8	26.0	21.0	3.0	38
SEP 06...	0530	644	100	100	6.9	6.8	26.0	21.0	3.5	44

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 05...	90	1.2	--	9	40	0.260	0.050	0.910	--
NOV 06...	11	1.0	<20	21	2	0.680	0.170	0.090	2.2
DEC 07...	17	1.8	<20	20	14	0.500	0.080	0.060	3.6
JAN 04...	14	1.2	20	19	3	0.730	0.090	0.080	7.9
FEB 08...	40	0.9	80	12	8	0.580	0.070	0.060	3.1
MAR 08...	--	0.4	140	13	30	0.570	0.090	0.150	3.1
APR 03...	39	0.6	<50	12	12	0.430	<0.030	0.060	4.9
MAY 02...	13	0.6	40	21	9	0.510	0.120	0.070	2.9
JUN 05...	24	0.8	20	22	7	0.510	0.080	0.040	3.4
JUL 16...	6.0	0.7	20	30	6	0.100	0.090	0.060	3.7
AUG 09...	5.0	0.9	50	22	3	0.540	0.070	0.080	5.7
SEP 06...	9.0	0.3	<20	24	4	0.500	0.140	0.060	4.2

ALTAMAHA RIVER BASIN

02212600 FALLING CREEK NEAR JULIETTE, GA. (Hydrologic Bench-Mark station)

LOCATION.--Lat 33°05'59", long 83°43'25", Jones County, Hydrologic Unit 03070103, on left bank 300 ft upstream from bridge on County Road 1432, 4 mi upstream from Caney Creek, and 5.1 mi east of Juliette.
DRAINAGE AREA.--72.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 366.52 ft above National Geodetic Vertical Datum of 1929 (leveling by Global Positioning System).

REMARKS.--Estimated daily discharges: Mar. 17, 18. Records good, except those for the period Mar. 17, 18, which are fair.

AVERAGE DISCHARGE.--26 years, 61.1 ft³/s, 11.49 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,700 ft³/s, Mar. 2, 1971, gage height, 23.0 ft, from floodmark; minimum daily discharge, 0.01 ft³/s, Aug. 9-22, 29, 30, and Sept. 1, 2, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1900	2,820	15.75	Mar. 17	unknown	*7,570	*22.85
Dec. 8	1500	1,160	10.33				

Minimum daily discharge, 0.39 ft³/s, Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1690	8.5	16	418	58	46	56	17	17	1.5	2.2	5.5
2	1180	8.4	15	150	54	46	59	14	14	1.3	2.2	3.9
3	168	9.9	15	89	52	72	60	12	13	1.2	2.6	3.0
4	86	11	15	68	64	62	48	11	12	.99	2.7	2.4
5	59	9.4	14	62	84	50	42	27	9.6	.91	2.5	2.0
6	46	8.8	15	185	63	42	40	42	7.7	.76	9.6	1.8
7	34	9.0	32	257	55	38	51	23	6.5	.70	6.7	1.5
8	26	11	936	519	51	37	45	16	6.0	.69	4.9	1.2
9	21	23	680	207	50	43	37	16	5.8	.64	13	.94
10	17	21	232	114	218	45	35	45	5.4	.56	26	2.8
11	14	16	115	83	313	41	74	32	4.9	.53	20	6.5
12	12	14	110	67	119	38	59	20	4.5	.47	6.2	4.6
13	11	12	260	55	78	34	44	16	4.2	1.8	4.0	2.3
14	11	11	119	50	62	32	37	15	3.9	2.9	3.3	1.8
15	11	14	78	45	54	31	36	13	3.8	2.4	3.1	1.6
16	12	38	65	41	252	125	34	12	3.7	2.0	2.7	1.3
17	11	28	54	38	551	4900	30	11	3.7	1.9	2.4	1.1
18	13	23	54	37	156	2000	27	10	3.4	1.7	2.1	1.8
19	25	19	143	38	530	233	23	9.9	3.2	1.9	1.9	4.5
20	20	17	228	36	311	140	23	8.9	2.9	4.8	1.7	1.6
21	16	15	109	154	134	107	24	10	2.8	1.9	1.3	2.5
22	13	15	75	135	103	92	23	13	3.0	6.5	1.2	3.7
23	12	35	59	77	103	79	22	10	3.6	6.6	1.1	1.0
24	11	37	50	61	79	63	21	8.6	2.8	4.5	1.4	.44
25	9.5	27	45	207	63	56	19	7.9	2.5	3.2	10	.52
26	8.8	23	43	248	55	51	17	7.6	2.3	2.8	50	.85
27	8.0	21	40	113	50	46	15	7.6	2.1	2.5	9.5	.76
28	7.9	20	38	83	48	44	18	13	2.0	2.5	4.5	.57
29	8.0	20	35	73	—	59	26	146	1.8	2.1	3.2	.44
30	8.0	17	33	78	—	86	23	52	1.7	2.0	4.2	.39
31	8.4	—	105	68	—	67	—	25	—	2.1	7.3	—
TOTAL	3577.6	542.0	3828	3856	3810	8805	1068	671.5	159.8	83.45	213.5	63.31
MEAN	115	18.1	123	124	136	284	35.6	21.7	5.33	2.69	6.89	2.11
MAX	1690	38	936	519	551	4900	74	146	17	19	50	6.5
MIN	7.9	8.4	14	36	48	31	15	7.6	1.7	.47	1.1	.39
CFM	1.59	.25	1.70	1.72	1.88	3.93	.49	.30	.07	.04	.10	.03
IN.	1.84	.28	1.97	1.99	1.96	4.54	.55	.35	.08	.04	.11	.03
CAL YR 1989	TOTAL	20293.00	MEAN	55.6	MAX	1690	MIN	2.2	CFM	.77	IN	10.46
WTR YR 1990	TOTAL	26678.16	MEAN	73.1	MAX	4900	MIN	.39	CFM	1.01	IN	13.75

ALTAMAHA RIVER BASIN

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1967 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: August 1965 to September 1979.

REMARKS.--Laboratory analyses with the analyzing agency codes 80020 and 84213 are provided by the U.S. Geological Survey. Laboratory analyses with the analyzing agency code 81341 are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Dissolved Oxygen and Total Alkalinity are by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 31.5°C Aug. 3, 1970; minimum, 0.0°C Jan. 9, 10, 1970, Dec. 26, 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)
OCT 24...	0800	80020	11	133	146	7.5	7.7
JAN 22...	0930	80020	139	86	91	7.5	7.7
MAY 14...	0730	80020	15	123	131	7.7	7.6
JUL 17...	1300	81341	2.0	--	151	7.7	7.8
AUG 20...	0800	80020	1.7	174	175	7.7	7.7
SEP 10...	1230	81341	0.81	170	172	7.6	7.9

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	ALKA- LINITY WAT.DIS FET LAB CACO3 (MG/L)
OCT 24...	80020	11.0	--	10.4	94	73	60	--	60
JAN 22...	80020	10.5	--	10.2	92	37	31	--	31
MAY 14...	80020	17.5	--	8.4	88	68	56	--	59
JUL 17...	81341	25.0	30.0	6.6	--	--	--	68	--
AUG 20...	80020	24.0	--	6.2	74	85	70	--	72
SEP 10...	81341	27.0	32.0	6.4	81	--	--	69	--

ALTAMAHA RIVER BASIN

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 24...	80020	4.0	--	--	K210	2800
JAN 22...	80020	33	--	--	780	1500
MAY 14...	80020	10	--	--	570	K4500
JUL 17...	81341	8.0	0.3	--	--	--
AUG 20...	80020	7.0	--	--	280	K600
SEP 10...	81341	4.0	0.7	80	--	--

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	HARD- NESS TOTAL (MG/L AS CaCO3)	HARD- NESS NONCARB DISSOLVED LAB MG/L AS CaCO3	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 24...	80020	54	0	12	5.8	8.9	26	0.5	1.9
JAN 22...	80020	29	0	6.3	3.1	5.1	27	0.4	1.5
MAY 14...	80020	50	0	11	5.4	8.1	26	0.5	1.3
AUG 20...	80020	55	0	12	6.0	14	35	0.8	2.0

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 24...	80020	4.0	4.0	0.90	22	92	96	2.73	0.13
JAN 22...	80020	8.0	2.8	0.50	15	64	61	24.0	0.09
MAY 14...	80020	2.5	3.6	0.70	20	80	87	3.24	0.11
AUG 20...	80020	6.2	4.3	1.6	23	103	112	0.47	0.14

ALTAMAHA RIVER BASIN

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 24...	80020	<0.010	--	<0.100	0.020	0.010	0.28	0.30	0.010	<0.010	<0.010	--
JAN 22...	80020	<0.010	--	<0.100	0.030	0.030	0.57	0.60	0.020	<0.010	0.020	--
MAY 14...	80020	<0.010	--	0.100	0.040	0.030	0.66	0.70	0.020	<0.010	<0.010	--
JUL 17...	81341	--	<0.020	--	<0.030	--	--	--	0.070	--	--	3.2
AUG 20...	80020	<0.010	--	<0.100	0.090	0.020	0.11	0.20	0.020	0.030	<0.010	--
SEP 10...	81341	--	0.050	--	<0.030	--	--	--	0.070	--	--	3.9

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
OCT 24...	80020	20	<1	35	<0.5	<1.0	<1	<3	<1	410	<1
JAN 22...	80020	150	<1	24	0.7	<1.0	1	<3	<10	480	<10
MAY 14...	80020	50	<1	25	<0.5	<1.0	<1	3	1	450	<1
AUG 20...	80020	30	<1	28	<0.5	1.0	<1	<3	1	280	<1

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 24...	80020	<4	210	0.1	<10	1	<1	<1.0	100	<6	4
JAN 22...	80020	<4	84	<0.1	<10	<10	<1	<1.0	54	<6	6
MAY 14...	80020	<4	130	0.3	10	<1	<1	<1.0	94	<6	5
AUG 20...	80020	<4	390	<0.1	<10	<1	<1	<1.0	120	<6	9

ALTAMAHA RIVER BASIN

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 24...	0805	84213	11	11.0	8	0.24	94
JAN 22...	0935	84213	139	10.5	44	17	84
MAY 14...	0735	84213	15	17.5	8	0.32	85
AUG 20...	0805	84213	1.7	24.0	10	0.05	91

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
OCT 24...	0800	80020	11	1.3	<0.4	3.5	<0.4	2.8	<0.4	0.09	0.02

ALTAMAHA RIVER BASIN

02212950 OCMULGEE RIVER ABOVE MACON, GA.

LOCATION.--Lat 32°52'11", long 83°39'15", Bibb County, Hydrologic Unit 03070103, at Macon waterworks intake, 1.2 mi north of Macon city limits, and at mile 201.

DRAINAGE AREA.--2,240 mi², approximately.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Discharge obtained from gaging station 02213000, Ocmulgee River at Macon, Ga. Flow regulated by Lloyd Shoals Reservoir (see "Lakes and Reservoirs in Altamaha River Basin," station 02210000).

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 16...	1430	2590	92	86	7.5	6.9	17.0	12.0	9.5	100
JAN 17...	2045	4140	74	73	7.3	7.0	10.0	11.0	11.2	99
MAR 13...	1845	4370	72	67	7.2	7.2	15.5	22.0	9.7	98
MAY 22...	1930	3080	82	82	7.5	7.5	23.5	22.0	8.2	98
JUL 17...	1300	1630	105	103	7.5	7.6	29.0	31.5	7.0	91
AUG 21...	1130	679	107	101	7.5	7.6	31.0	33.5	6.8	92
SEP 19...	1600	1550	95	92	7.4	7.4	27.5	30.5	7.6	97

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
NOV 16...	16	--	0.7	800	27	18
JAN 17...	27	--	0.7	20	16	14
MAR 13...	29	--	1.3	110	17	11
MAY 22...	13	--	0.7	75	20	30
JUL 17...	5.0	10	0.8	--	35	11
AUG 21...	3.0	6	0.9	50	26	2
SEP 19...	17	25	0.9	40	26	15

ALTAMAHA RIVER BASIN

02212950 OCMULGEE RIVER ABOVE MACON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO ₂ + NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 16...	0.510	<0.030	--	--	--	0.080	3.1
JAN 17...	0.540	<0.030	--	--	--	0.120	10
MAR 13...	0.550	0.040	--	--	--	0.060	3.6
MAY 22...	0.520	0.040	--	--	--	0.140	3.5
JUL 17...	0.250	<0.030	--	0.30	0.55	0.080	3.6
AUG 21...	0.430	<0.030	--	0.10	0.53	0.090	3.9
SEP 19...	0.470	<0.030	--	<0.10	--	0.080	2.3

ALTAMAHA RIVER BASIN

02213000 OCMULGEE RIVER AT MACON, GA.

LOCATION.--Lat 32°50'19", long 83°37'14", Bibb County, Hydrologic Unit 03070103, at downstream end of right pier of Fifth Street Bridge in Macon, 1.5 mi upstream from Walnut Creek, and at mile 198.0.

DRAINAGE AREA.--2,240 mi², approximately.

PERIOD OF RECORD.--February 1893 to July 1912, August 1912 to December 1913 (gage heights and discharge measurements only), October 1928 to current year. Gage height records collected at same site since 1895 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area. WSP 1504: 1893-1903, 1905-10, 1932, 1937, 1942(M).

GAGE.--Water-stage recorder. Datum of gage is 269.80 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 9, 1905, nonrecording gage at sites within 1.5 mi downstream at about same datum. Oct. 9, 1905, to Dec. 31, 1913, nonrecording gage at present site and datum. Jan. 10, 1929, to June 25, 1934, water-stage recorder at site 500 ft downstream at same datum. June 25, 1934 to June 25, 1973, water-stage recorder at present site and datum, and June 26, 1973, to Oct. 13, 1974, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoir in Altamaha River Basin", station 02210000.) Records of chemical analyses for the water years 1968-73 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--80 years (water years 1894-1911, 1929-90), 2,687 ft³/s, 16.29 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,500 ft³/s, Nov. 29, 1948, gage height, 28.0 ft; maximum gage height, 29.45 ft, from floodmark, Mar. 4, 1971; minimum daily discharge, 128 ft³/s, Oct. 24, 1954; minimum gage height observed, -1.0 ft, Oct. 5, 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 19, 1925, reached a stage of 26.0 ft, from floodmarks at Central of Georgia Railroad bridge, 500 ft downstream, discharge 72,500 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 14,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	2000	35,800	24.42	Feb. 21	1000	24,000	21.39
Jan. 27	1700	22,300	20.94	Mar. 18	2300	*64,700	*29.90

Minimum daily discharge, 451 ft³/s, July 6.

ALTAMAHA RIVER BASIN

02213000 OCMULGEE RIVER AT MACON, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13100	1620	2050	6030	4770	4580	4020	2420	1700	493	854	2380
2	33500	1370	2410	4020	4600	3890	4310	2220	1580	484	1200	2120
3	30300	2310	1850	4010	4560	4640	4280	2380	1340	482	1150	1470
4	26300	1630	1540	2650	4560	5020	3860	2270	1450	474	1060	792
5	15500	1440	2250	3200	4590	4850	3520	2430	1390	462	1690	2380
6	8210	1390	2100	3690	4400	4690	3830	1720	1420	451	1160	1700
7	5890	1870	1540	6730	4350	4580	2800	2340	1430	465	1740	1150
8	4520	1760	6380	8800	4270	4460	3450	2020	1450	496	825	1080
9	1900	2020	9350	7190	4250	4460	3410	1860	1440	511	884	912
10	1340	1990	6860	5940	5320	4490	3030	2610	1100	471	2280	726
11	1280	1800	5290	5260	8050	4490	3930	3390	1080	528	3340	1250
12	1270	1480	4940	4900	9360	4450	4270	3030	826	484	1300	1120
13	1360	1410	6080	4620	10600	4380	4420	2020	780	596	1560	1040
14	1670	1550	5400	4440	9100	3880	4190	2260	769	703	943	1530
15	1760	1480	4750	4330	7350	3960	3510	2080	767	648	998	1390
16	1250	2190	4400	4250	5920	4230	2870	2060	782	1130	915	2460
17	2690	3150	4160	4180	11000	28400	2740	1430	775	1280	885	2650
18	2310	3050	4120	3380	18400	48400	2920	1480	753	1370	713	2640
19	1290	1990	4550	2360	20300	58700	2280	1930	1020	846	689	1840
20	1460	1360	5570	3010	22300	35600	2230	1450	998	1320	684	846
21	1410	1970	3900	4870	22700	18200	2670	2120	989	3120	686	1050
22	1200	1990	4010	5470	15100	8920	2350	3030	800	3380	725	847
23	1150	2020	2720	5030	10100	6140	2030	2230	790	3000	1130	1110
24	1670	2160	2160	4860	7770	5820	2460	1530	765	2540	910	633
25	1590	2560	1780	7130	5670	5590	2110	1460	739	2370	2160	892
26	1590	2340	2320	14300	4910	5450	1980	1220	927	1560	2740	845
27	1440	1480	2800	20600	4760	5260	1970	1030	756	1420	943	731
28	1350	2300	2790	16900	4660	5160	2080	2490	678	840	842	725
29	1070	2720	2760	10000	---	5160	2280	4140	460	673	1060	827
30	1060	2440	2700	8360	---	5410	2840	3880	507	499	741	604
31	1420	---	2920	5560	---	5330	---	2280	---	911	1380	---
TOTAL	171850	58840	116450	196070	243720	318590	92640	68810	30261	34007	38187	39740
MEAN	5544	1961	3756	6325	8704	10280	3088	2220	1009	1097	1232	1325
MAX	33500	3150	9350	20600	22700	58700	4420	4140	1700	3380	3340	2650
MIN	1060	1360	1540	2360	4250	3880	1970	1030	460	451	684	604
CAL YR 1989	TOTAL	965100	MEAN	2644	MAX	33500	MIN	418	MEAN†	2643	CFSM†	1.18
WTR YR 1990	TOTAL	1409165	MEAN	3861	MAX	58700	MIN	451	MEAN†	3830	CFSM†	1.71
												IN† 16.02
												IN† 23.22

†ADJUSTED FOR CHANGE IN CONTENTS IN LLOYD SHOALS RESERVOIR.

ALTAMAHA RIVER BASIN

02213050 WALNUT CREEK NEAR GRAY, GA.

LOCATION.--Lat 32°58'20", long 83°37'08", Jones County, Hydrologic Unit 03070103, on downstream side of right bank pier of abandoned bridge, 500 ft downstream from bridge on State Highway 18, 1.4 mi upstream from Bonner Creek, and 5.5 mi southwest of Gray.

DRAINAGE AREA.--29 mi², approximately.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 390 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good to fair.

AVERAGE DISCHARGE.--29 years, 30.7 ft³/s, 14.38 in./yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,500 ft³/s, Dec. 26, 1964, gage height, 23.8 ft, from floodmark, from rating curve extended above 5,000 ft³/s on basis of contracted-opening measurement of peak flow; no flow, Oct. 3-5, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--No flow was observed during June, July, and August 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1915	1,550	5.26	Mar. 17	1115	*3,070	*9.21

Minimum daily discharge, 0.20 ft³/s, Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	682	6.5	8.6	136	26	23	23	9.1	6.8	2.0	1.6	1.3
2	173	7.0	8.3	54	25	25	23	8.6	7.1	2.0	2.1	1.1
3	46	8.9	8.1	41	24	108	20	8.1	7.9	1.9	2.1	.97
4	23	7.9	8.1	35	30	47	18	8.4	6.7	1.8	2.0	.96
5	14	7.5	8.1	55	26	35	17	13	6.2	1.6	2.0	.89
6	11	8.1	8.9	100	22	29	17	15	5.7	1.5	2.8	.79
7	8.6	8.4	19	173	22	26	17	9.7	5.4	1.7	2.1	.76
8	6.9	9.9	318	199	21	24	16	8.6	5.6	2.8	4.3	.75
9	6.1	13	242	75	21	25	15	9.7	6.0	3.3	4.9	.87
10	5.8	8.8	78	52	49	24	16	25	5.8	2.7	12	.84
11	5.3	7.9	48	43	48	22	26	12	5.7	3.5	4.0	.82
12	4.6	7.2	79	36	35	20	16	9.6	5.1	2.6	2.4	.71
13	4.6	7.1	90	30	30	19	15	9.1	4.9	4.7	2.3	.70
14	4.6	7.5	46	26	26	18	14	9.1	4.9	9.6	2.2	.91
15	5.2	8.6	35	24	24	18	14	8.5	5.6	5.3	2.0	.79
16	4.6	32	28	23	150	64	13	7.6	6.5	3.1	2.0	.56
17	4.6	11	23	22	110	1430	12	8.5	6.2	2.3	1.8	.35
18	5.5	8.0	26	21	57	172	12	8.7	5.8	2.6	1.7	.33
19	7.5	7.5	63	19	156	79	10	7.3	5.2	4.7	1.3	.33
20	4.5	7.1	59	18	79	54	11	7.1	4.5	5.6	.90	.36
21	4.2	8.2	41	57	51	44	12	9.7	4.2	4.0	.87	.34
22	4.2	8.4	32	38	64	39	12	9.8	3.8	3.1	.91	.36
23	4.6	21	25	30	61	35	11	7.3	4.0	2.5	.94	.29
24	5.2	11	27	27	42	32	10	6.7	3.1	2.4	.93	.20
25	5.2	8.8	20	43	33	29	9.4	6.6	2.6	2.3	4.6	.31
26	5.3	8.6	19	44	28	25	9.0	6.2	2.5	2.2	2.6	.29
27	5.3	8.6	17	33	26	23	8.6	6.1	2.4	2.0	1.2	.25
28	5.4	9.5	16	29	25	22	12	18	2.3	2.0	.96	.24
29	5.5	13	15	33	---	27	14	25	2.2	1.9	.88	.22
30	5.9	9.1	15	41	---	29	9.9	9.4	2.2	1.8	1.4	.37
31	6.2	---	93	31	---	28	---	7.7	---	1.7	2.5	---
TOTAL	1084.4	296.1	1524.1	1588	1311	2595	432.9	315.2	146.9	91.2	74.29	17.96
MEAN	35.0	9.87	49.2	51.2	46.8	83.7	14.4	10.2	4.90	2.94	2.40	.60
MAX	682	32	318	199	156	1430	26	25	7.9	9.6	12	1.3
MIN	4.2	6.5	8.1	18	21	18	8.6	6.1	2.2	1.5	.87	.20
CFSM	1.13	.32	1.58	1.65	1.51	2.69	.46	.33	.16	.10	.08	.02
IN.	1.30	.35	1.82	1.90	1.57	3.10	.52	.38	.18	.11	.09	.02
CAL YR 1989	TOTAL	9438.80	MEAN	25.9	MAX	682	MIN	1.4	CFSM	.83	IN	11.29
WTR YR 1990	TOTAL	9477.05	MEAN	26.0	MAX	1430	MIN	.20	CFSM	.84	IN	11.34

ALTAMAHA RIVER BASIN

02213500 TOBESOFKEE CREEK NEAR MACON, GA.

LOCATION.--Lat 32°48'32", long 83°45'30", Bibb County, Hydrologic Unit 03070103, on right bank at downstream end of pier of bridge on State Highway 22 connector, 8 mi west of Macon, and 14 mi upstream from mouth.

DRAINAGE AREA.--182 mi².

PERIOD OF RECORD.--April 1937 to current year.

REVISED RECORDS.--WSP 1204: 1942.

GAGE.--Water-stage recorder. Datum of gage is 309.98 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 28, 1942, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Mar. 18-20. Records good, except those estimated daily discharges, which are poor. Flow regulated to some extent since November 1967 by Lake Tobesofkee about 1 mi upstream. Records of chemical analyses for the water years 1969-70 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--53 years, 190 ft³/s, 14.18 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,830 ft³/s, Mar. 21, 1944, gage height, 23.2 ft, from rating curve extend above 6,300 ft³/s; minimum, 2.3 ft³/s, Oct. 10, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1415	3,800	14.34	Mar. 18	0115	*7,640	*20.62
Oct. 5	2300	1,990	9.41	Mar. 21	0845	3,000	12.33
Dec. 8	1300	4,060	14.98				

Minimum daily discharge, 16 ft³/s Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2750	55	81	972	218	204	249	110	87	33	30	24
2	2200	57	80	725	216	242	245	103	82	32	29	24
3	383	69	83	431	216	529	238	99	79	32	29	24
4	52	68	86	278	115	277	224	96	79	31	28	23
5	480	61	82	434	23	224	206	96	79	29	29	23
6	206	57	79	500	22	208	191	99	75	29	28	23
7	29	56	173	745	22	196	183	97	71	29	28	23
8	29	110	2350	1030	22	195	167	94	68	29	29	22
9	31	158	1710	1090	22	190	156	92	62	28	29	23
10	32	116	388	632	24	161	155	248	59	27	30	23
11	34	92	433	351	23	147	205	210	61	28	30	22
12	36	77	622	136	22	171	216	91	59	28	31	22
13	37	71	631	214	22	170	184	89	56	30	31	22
14	38	67	350	349	22	162	167	95	54	30	30	22
15	53	65	270	283	21	151	161	97	52	30	30	21
16	75	212	239	198	27	571	159	93	51	31	29	22
17	75	79	189	197	360	5900	156	91	50	31	29	22
18	81	73	207	198	511	5800	152	94	48	31	28	21
19	101	70	459	198	975	750	150	91	47	31	27	21
20	92	69	504	199	864	240	146	88	46	31	27	20
21	76	68	333	292	447	881	137	109	44	31	27	20
22	62	73	237	418	375	305	127	119	43	32	27	21
23	55	119	203	364	400	610	123	109	43	32	26	21
24	52	110	196	195	276	388	120	95	41	33	27	20
25	49	99	177	388	217	282	115	88	39	33	26	18
26	47	90	167	498	211	277	108	83	38	32	26	18
27	50	87	783	317	203	251	108	81	35	32	25	17
28	52	83	1410	217	202	232	107	83	35	32	25	17
29	53	89	1380	216	---	230	109	86	34	31	25	16
30	53	86	1280	217	---	254	112	90	33	30	25	17
31	53	---	762	216	---	275	---	88	---	30	25	---
TOTAL	7416	2586	15944	12498	6078	20473	4876	3204	1650	948	865	632
MEAN	239	86.2	514	403	217	660	163	103	55.0	30.6	27.9	21.1
MAX	2750	212	2350	1090	975	5900	249	248	87	33	31	24
MIN	29	55	79	136	21	147	107	81	33	27	25	16
CFSM	1.31	.47	2.82	2.21	1.19	3.63	.90	.57	.30	.17	.15	.12
IN.	1.52	.53	3.26	2.55	1.24	4.18	1.00	.65	.34	.19	.18	.13
CAL YR 1989	TOTAL	68375	MEAN	187	MAX	2750	MIN	26	CFSM	1.03	IN	13.98
WTR YR 1990	TOTAL	77170	MEAN	211	MAX	5900	MIN	16	CFSM	1.16	IN	15.77

ALTAMAHA RIVER BASIN

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.

LOCATION.--Lat 32°40'17", long 83°36'11", Bibb-Twiggs County line, Hydrologic Unit 03070103, on right bank 0.8 mi upstream from Echeconnee Creek, 4 mi northeast of Warner Robins, and 5.7 mi downstream from Tobesofkee Creek.

DRAINAGE AREA.--2,690 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year, discharge less than 3,600 ft³/s, only.

GAGE.--Water-stage recorder. Elevation of gage is 251 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good, except those for the period Apr. 8 to May 25, which are fair to poor. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin," station 02210000.)

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.85 ft, Mar. 19, 1990; minimum daily discharge, 227 ft³/s, Oct. 18, and July 27, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 15.85 ft, Mar. 19; minimum daily discharge, 510 ft³/s, July 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	--	1320	2220	--			--	2810	2150	547	938	1790
2	--	1500	2110	--			--	2420	1770	536	1010	2110
3	--	1520	2030	--			--	2450	1620	530	1120	1600
4	--	1820	1580	--			--	2330	1490	522	1120	1350
5	--	1520	1890	--			--	2410	1460	518	1330	1140
6	--	1190	1970	--			--	2150	1460	514	1320	2240
7	--	1540	1790	--			--	2140	1480	510	1560	1290
8	--	1570	--	--			3340	2260	1500	518	1240	1180
9	--	1800	--	--			3350	2020	1540	552	940	1100
10	2190	1910	--	--			3310	2320	1400	542	1100	926
11	1490	2020	--	--			3330	2720	1200	551	2450	922
12	1280	1760	--	--			--	3500	1120	556	2390	1230
13	1230	1350	--	--			--	3030	946	584	1420	1130
14	1330	1390	--	--			--	2580	900	710	1260	1190
15	1540	1450	--	--			--	2330	886	789	1000	1520
16	1520	1670	--	--			--	2230	885	785	1020	1580
17	1480	2330	--	--			3030	1840	888	1220	976	2330
18	2420	3040	--	--			2930	1650	872	1240	911	2470
19	1710	2680	--	--			2810	1950	874	1260	767	2440
20	1260	1890	--	3040			2510	1740	1050	932	737	1380
21	1390	1390	--	--			2590	1660	1020	1920	718	979
22	1310	1900	--	--			2600	2540	1010	2660	723	1080
23	1110	1920	--	--			2270	2920	860	2920	906	984
24	1180	2090	--	--			2520	2010	832	2540	933	1080
25	1610	2260	2760	--			2310	1630	804	2460	1230	779
26	1380	2490	2360	--			2070	1500	776	1820	2330	951
27	1370	1950	2920	--			2070	1300	895	1480	1940	888
28	1360	1890	3020	--			2080	1460	759	1270	954	803
29	1100	2270	3230	--			2400	2720	640	875	965	820
30	981	2510	--	--			2770	3320	543	744	1030	870
31	998	--	--	--			--	3260	--	664	950	--
TOTAL	--	55940	--	--			--	71200	33630	33269	37288	40152
MEAN	--	1865	--	--			--	2297	1121	1073	1203	1338
MAX	--	3040	--	--			--	3500	2150	2920	2450	2470
MIN	--	1190	--	--			--	1300	543	510	718	779
CFSM	--	.69	--	--			--	.85	.42	.40	.45	.50
IN.	--	.77	--	--			--	.98	.47	.46	.52	.56

ALTAMAHA RIVER BASIN

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1970 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1970 to current year.

pH: October 1971 to current year.

WATER TEMPERATURE: February 1970 to current year.

DISSOLVED OXYGEN: May 1970 to current year.

INSTRUMENTATION.--Water-quality monitor. Specific Conductance, pH, Water Temperature, and Dissolved Oxygen recorded hourly.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 377 microsiemens Oct. 27, 1987; minimum recorded, 25 microsiemens Jan. 7, 1974.

pH: Maximum recorded, 7.8 units Oct. 1, 1971; minimum recorded, 5.2 units Jan. 14, 1972.

WATER TEMPERATURE: Maximum recorded, 34.5°C July 17, 1981, July 21, 1986; minimum recorded, 1.0°C Jan. 19, 20, 1977.

DISSOLVED OXYGEN: Maximum recorded, 16.5 mg/L Mar. 12, 1970; minimum recorded, 0.0 mg/L June 8, 9, 1971, Sept. 17, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 203 microsiemens July 7; minimum recorded, 48 microsiemens Mar. 19, 20.

pH: Maximum recorded, 7.6 units Nov. 28; minimum recorded, 6.6 units on several days during October and March.

WATER TEMPERATURE: Maximum recorded, 33.0°C July 7, 9, 10; minimum recorded, 3.0°C Dec. 24, 25.

DISSOLVED OXYGEN: Maximum recorded, 12.8 mg/L Dec. 27; minimum recorded, 5.1 mg/L Aug. 25.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 16...	1715	1780	128	120	7.4	7.1	16.5	10.0	9.0	93
JAN 17...	1845	--	86	85	7.1	7.0	10.0	16.0	11.0	97
MAR 13...	2030	--	83	--	7.2	7.1	16.0	20.0	9.1	92
MAY 22...	2030	2820	95	91	7.4	7.2	24.0	20.5	7.3	88
JUL 17...	1550	1190	136	132	7.3	7.7	29.5	32.5	6.3	83
AUG 21...	1345	715	153	150	7.5	7.4	32.0	35.0	6.3	87
SEP 19...	1745	2460	111	107	7.4	7.3	27.0	26.5	7.1	90

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
NOV 16...	40	14	28	0.8	390	35	15
JAN 17...	50	31	20	1.4	50	18	18
MAR 13...	30	30	16	1.0	80	18	19
MAY 22...	20	21	20	0.8	230	24	33
JUL 17...	30	21	17	1.0	--	35	30
AUG 21...	10	6.0	20	0.5	960	34	8
SEP 19...	30	26	12	1.2	70	25	35

ALTAMAHA RIVER BASIN

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO ₂ + NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 16...	0.720	0.060	0.34	0.40	1.1	0.170	5.0
JAN 17...	0.580	0.110	0.0	0.10	0.68	0.100	7.5
MAR 13...	0.590	0.030	0.17	0.20	0.79	0.060	3.9
MAY 22...	0.670	0.090	0.01	0.10	0.77	0.120	6.2
JUL 17...	0.580	<0.030	--	0.30	0.88	0.110	2.6
AUG 21...	0.950	<0.030	--	0.20	1.2	0.160	3.9
SEP 19...	0.600	<0.030	--	<0.10	--	0.100	9.6

ALTAMAHA RIVER BASIN

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	101	85	139	125	117	107	85	74	71	69	75	72
2	111	79	133	119	119	102	94	81	73	71	76	74
3	88	74	139	106	117	105	95	91	74	72	81	77
4	73	64	126	108	129	110	105	96	76	72	82	76
5	64	62	128	123	121	104	104	96	80	76	77	76
6	65	63	143	125	120	105	106	95	82	81	79	76
7	69	65	130	111	118	108	94	88	84	82	81	78
8	68	65	128	112	120	84	91	85	86	84	83	80
9	85	67	129	119	86	75	86	82	88	84	84	80
10	111	86	124	115	77	74	82	81	89	86	83	81
11	122	110	123	113	88	78	84	82	88	77	82	80
12	132	119	120	116	94	88	86	85	79	77	82	80
13	134	123	136	117	94	92	87	85	79	76	85	82
14	125	109	137	125	94	85	88	86	76	74	86	85
15	115	101	140	123	88	85	88	85	74	73	87	84
16	121	96	135	111	90	87	87	84	76	73	87	85
17	127	93	120	107	89	88	87	86	76	69	89	76
18	96	92	108	98	91	89	92	86	69	68	75	54
19	120	98	116	101	91	89	99	93	74	70	54	48
20	128	119	124	113	91	86	108	89	71	66	52	48
21	125	112	136	114	86	81	99	85	66	63	57	50
22	124	114	121	110	86	83	94	87	63	61	60	52
23	128	121	122	109	89	84	91	88	63	61	61	55
24	135	106	115	104	99	89	92	91	65	63	63	61
25	110	100	108	101	98	92	92	86	65	64	63	62
26	119	105	106	100	105	93	86	80	68	66	66	63
27	125	110	117	101	94	87	83	76	73	69	68	66
28	119	114	115	105	97	89	78	71	74	72	68	65
29	142	115	113	102	98	83	70	67	---	---	69	67
30	149	136	112	105	87	81	67	66	---	---	70	68
31	154	139	---	---	97	82	69	67	---	---	70	69
MONTH	154	62	143	98	129	74	108	66	89	61	89	48

ALTAMAHA RIVER BASIN

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

ALTAMAHA RIVER BASIN

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.2	7.0	7.4	7.3	7.4	7.2	--	--	7.0	6.9	7.1	7.1
2	7.0	6.6	7.4	7.3	7.4	7.3	--	--	7.0	7.0	7.1	7.1
3	6.7	6.6	7.3	7.2	7.5	7.3	--	--	7.0	7.0	7.1	7.0
4	6.7	6.6	7.4	7.3	7.5	7.3	--	--	7.1	7.0	7.1	7.1
5	6.7	6.6	7.4	7.2	7.4	7.3	--	--	7.1	7.1	7.2	7.1
6	6.8	6.6	7.4	7.3	7.5	7.3	--	--	7.2	7.1	7.2	7.1
7	6.8	6.8	7.5	7.4	--	--	--	--	7.2	7.1	7.2	7.1
8	6.9	6.8	7.5	7.5	--	--	--	--	7.2	7.1	7.2	7.2
9	6.9	6.8	7.5	7.4	7.4	6.9	--	--	7.2	7.1	7.2	7.2
10	6.9	6.8	7.4	7.2	7.0	6.9	--	--	7.2	7.1	7.2	7.2
11	7.1	6.9	7.4	7.2	7.2	7.0	--	--	7.1	7.1	7.2	7.2
12	7.1	7.0	7.4	7.3	7.4	7.2	--	--	7.1	7.1	7.2	7.2
13	7.1	7.1	7.5	7.3	7.4	7.3	7.1	6.9	7.1	7.1	7.2	7.2
14	7.1	7.1	7.5	7.4	7.3	7.2	7.0	6.8	7.1	7.0	7.2	7.1
15	7.1	7.1	7.5	7.5	7.4	7.2	7.1	6.8	7.0	7.0	7.2	7.2
16	7.1	7.0	7.5	7.3	7.4	7.3	7.1	7.0	7.0	7.0	7.2	7.1
17	7.2	7.1	7.4	7.3	7.4	7.3	7.2	7.1	7.1	7.0	7.2	6.9
18	7.2	7.1	7.4	7.2	7.4	7.4	7.2	7.1	7.0	7.0	6.9	6.6
19	7.1	7.1	7.2	7.1	7.4	7.4	7.1	7.0	7.0	6.9	6.6	6.6
20	7.2	7.1	7.2	7.0	7.4	7.3	7.2	7.0	6.9	6.9	6.6	6.6
21	7.3	7.1	7.5	7.1	7.4	7.2	7.2	7.1	6.9	6.9	6.7	6.6
22	7.2	7.1	7.5	7.3	7.4	7.2	7.2	6.9	6.9	6.8	6.8	6.7
23	7.2	7.0	7.4	7.2	7.5	7.3	7.2	6.9	6.9	6.9	6.8	6.7
24	7.2	7.1	7.3	7.2	7.4	7.3	7.2	7.1	7.0	6.9	6.9	6.8
25	7.2	7.1	7.2	7.1	7.4	7.3	7.2	7.1	7.0	7.0	6.9	6.9
26	7.2	7.1	7.5	7.2	7.3	7.2	7.1	6.9	7.0	7.0	6.9	6.9
27	7.2	7.1	7.5	7.3	7.5	7.2	7.1	6.8	7.1	7.0	7.0	6.9
28	7.3	7.1	7.6	7.4	--	--	7.1	6.8	7.1	7.1	7.0	7.0
29	7.3	7.1	7.5	7.4	--	--	6.8	6.8	--	--	7.0	7.0
30	7.3	7.2	7.4	7.3	--	--	6.8	6.8	--	--	7.0	7.0
31	7.4	7.2	--	--	--	--	6.9	6.8	--	--	7.0	7.0
MONTH	7.4	6.6	7.6	7.0	7.5	6.9	7.2	6.8	7.2	6.8	7.2	6.6

ALTAMAHA RIVER BASIN

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

ALTAMAHA RIVER BASIN

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	21.0	20.5	18.0	17.5	11.0	10.5	9.0	8.5	10.0	10.0	12.5	11.5
2	21.0	20.5	17.5	16.5	10.5	10.5	8.0	7.0	11.0	10.0	13.0	12.5
3	21.0	21.0	16.5	15.5	10.5	9.5	7.5	7.0	12.0	11.0	13.5	12.5
4	21.0	20.5	15.5	14.5	9.5	8.5	8.0	7.0	13.0	12.0	13.0	12.0
5	20.5	20.0	15.5	15.0	9.0	8.5	8.5	8.0	12.0	11.5	13.5	12.0
6	21.0	20.5	16.0	14.5	10.0	8.5	10.5	8.5	11.5	11.0	14.0	12.5
7	21.5	21.0	17.5	15.5	11.0	10.0	10.5	10.0	12.0	11.0	14.0	13.0
8	21.0	20.5	18.0	17.0	12.0	11.0	10.0	10.0	12.5	11.5	13.5	12.0
9	20.5	19.0	18.5	17.5	11.0	9.0	10.0	9.0	12.5	12.0	12.5	12.0
10	19.0	18.5	17.5	16.5	9.0	9.0	9.0	8.5	13.0	13.0	13.5	12.0
11	19.5	18.5	16.5	15.5	9.0	8.5	9.0	9.0	13.0	12.5	15.5	13.5
12	20.0	18.5	16.0	15.0	9.5	9.0	9.5	9.0	12.5	12.0	16.5	15.0
13	20.0	19.5	16.0	15.0	9.5	9.0	9.0	8.0	13.0	12.0	16.5	16.0
14	20.5	19.5	16.0	15.5	9.0	7.5	8.0	7.5	13.5	12.5	16.5	15.5
15	21.5	20.5	17.0	15.5	8.0	7.5	8.0	7.5	14.0	13.0	17.0	16.0
16	22.5	21.5	17.0	16.0	7.5	7.0	9.0	8.0	15.0	14.5	17.0	16.0
17	24.0	22.5	15.5	13.5	7.0	6.0	10.0	9.0	15.0	14.5	16.5	16.0
18	23.0	21.5	13.5	12.5	6.5	6.0	10.5	10.0	14.5	13.0	16.0	15.5
19	21.0	18.5	13.0	12.5	6.0	6.0	11.5	10.5	13.0	12.0	16.5	16.0
20	18.5	16.0	13.0	12.5	6.0	6.0	12.0	11.5	14.0	12.5	16.5	15.0
21	16.0	15.0	14.0	12.5	6.0	6.0	12.5	11.5	13.5	13.0	15.0	14.0
22	16.0	14.5	13.0	12.5	6.0	5.0	12.0	11.0	13.0	13.0	15.0	14.0
23	17.0	15.0	13.0	11.5	5.0	3.5	11.0	10.0	13.5	13.0	16.0	15.0
24	17.0	16.0	11.5	10.5	3.5	3.0	11.0	10.0	13.0	12.0	16.5	15.5
25	16.5	15.5	11.0	10.5	3.5	3.0	11.5	11.0	12.0	11.0	17.0	16.0
26	17.0	16.0	12.5	11.0	4.5	3.5	11.5	10.5	11.0	10.5	17.0	16.5
27	17.0	16.0	14.0	12.5	5.0	3.5	10.5	10.0	11.0	10.0	16.5	15.5
28	17.0	16.0	15.0	14.0	5.5	4.5	10.5	9.5	12.0	11.0	15.5	15.0
29	17.5	16.0	14.5	13.0	5.5	5.0	11.0	10.5	---	---	15.0	14.5
30	18.0	16.5	13.0	10.5	7.0	5.5	10.5	10.0	---	---	14.5	14.5
31	18.5	17.5	---	---	8.0	7.0	10.5	9.5	---	---	15.0	14.5
MONTH	24.0	14.5	18.5	10.5	12.0	3.0	12.5	7.0	15.0	10.0	17.0	11.5

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

ALTAMAHA RIVER BASIN

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.9	7.3	8.7	8.3	10.5	10.3	11.1	10.7	10.6	10.4	9.9	9.7
2	7.2	5.5	8.8	8.7	10.7	10.2	11.3	10.9	10.6	10.5	9.8	9.5
3	5.9	5.5	9.3	8.6	10.7	10.4	11.7	11.3	10.4	10.1	9.4	9.1
4	6.1	5.9	9.3	9.2	10.8	10.4	11.7	10.7	10.1	9.9	9.6	9.3
5	6.2	6.1	9.5	9.1	11.4	10.8	11.2	10.8	10.3	9.9	9.7	9.6
6	6.3	6.2	9.5	8.9	11.4	10.8	11.1	10.4	10.5	10.3	9.7	9.5
7	6.4	6.2	9.2	9.0	11.0	10.2	10.7	10.6	10.5	10.4	9.6	9.5
8	6.9	6.4	9.1	8.6	10.3	9.8	10.6	10.4	10.4	10.3	9.7	9.6
9	6.8	6.7	8.6	8.3	10.2	10.0	10.5	10.4	10.3	10.2	9.9	9.7
10	6.9	6.6	8.8	8.3	10.5	10.1	10.8	10.5	10.1	9.9	9.9	9.7
11	7.2	6.9	9.0	8.8	10.6	10.5	10.9	10.8	10.0	9.8	9.6	9.2
12	7.4	7.3	9.2	9.0	10.6	10.5	10.8	10.7	10.1	9.9	9.2	9.0
13	7.5	7.3	9.1	8.7	10.6	10.4	11.3	10.8	10.0	9.9	9.1	8.9
14	7.7	7.3	9.1	8.9	11.0	10.6	11.5	11.3	9.9	9.6	9.0	8.9
15	7.9	7.5	9.2	8.8	11.3	11.0	11.5	11.5	9.6	9.4	8.9	8.8
16	7.8	7.2	9.2	8.8	11.4	11.3	11.5	11.2	9.4	9.0	8.8	8.6
17	7.5	6.9	9.8	9.0	11.9	11.5	11.2	11.0	9.1	8.9	8.6	7.6
18	7.9	7.8	10.5	9.8	12.0	11.9	10.9	10.4	9.3	8.9	7.5	7.0
19	7.9	7.6	10.3	10.0	12.0	11.9	10.4	10.0	9.3	9.1	7.5	7.4
20	8.5	7.8	10.1	9.9	12.0	11.9	10.4	9.6	9.1	8.8	7.8	7.5
21	9.0	8.6	10.2	9.7	11.9	11.9	10.3	10.1	9.1	8.9	8.2	7.8
22	9.0	8.8	10.3	9.7	12.3	11.7	10.2	10.1	9.1	9.0	8.2	8.1
23	8.8	8.5	9.9	9.6	12.5	12.3	10.6	10.2	9.0	8.9	8.3	8.2
24	8.7	8.4	10.5	9.8	12.4	12.1	10.6	10.5	9.4	9.0	8.3	8.2
25	9.1	8.8	10.6	10.3	12.7	12.4	10.4	10.1	9.7	9.4	8.3	7.9
26	9.1	8.7	10.5	9.9	12.7	12.1	10.2	10.0	10.1	9.7	8.3	7.8
27	9.1	8.8	9.9	9.1	12.8	12.6	10.4	10.2	10.2	10.1	8.6	8.3
28	9.0	8.8	9.5	9.1	12.6	12.3	10.3	10.1	10.1	9.9	8.8	8.5
29	8.9	8.4	9.8	9.2	12.4	12.1	10.1	9.9	—	—	8.8	8.7
30	8.5	8.3	10.5	9.8	12.1	11.8	10.3	10.0	—	—	8.9	8.8
31	8.3	8.1	—	—	11.7	11.0	10.5	10.4	—	—	8.8	8.8
MONTH	9.1	5.5	10.6	8.3	12.8	9.8	11.7	9.6	10.6	8.8	9.9	7.0

ALTAMAHA RIVER BASIN

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

ALTAMAHA RIVER BASIN

02214265 OCMULGEE RIVER NEAR BONAIRE, GA.

LOCATION.--Lat 32°32'33", long 83°32'13", Houston-Twiggs County line, Hydrologic Unit 03070104, at bridge on State Highway 96, 0.4 mi downstream from Flat Creek and 3.5 mi east of Bonaire.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Flow regulated by Lloyd Shoals Reservoir (see "Lakes and Reservoirs in Altamaha River Basin", station 02210000).

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 14...	1425	1670	122	116	7.2	7.0	16.5	26.0	7.1	74
JAN 16...	1450	4300	70	74	7.0	6.6	13.0	22.0	10.4	99
MAR 26...	1450	8000	61	58	6.9	6.9	12.0	27.0	8.1	76
MAY 15...	1345	2650	92	91	7.4	7.1	23.0	30.0	7.9	93
JUN 19...	1350	1120	130	118	7.1	7.2	29.0	35.5	6.9	92
JUL 19...	1050	1620	125	125	7.0	7.3	28.0	25.0	6.2	80
AUG 23...	1000	1000	146	143	7.1	7.3	32.0	29.0	6.2	87
SEP 25...	1010	1100	130	130	7.2	7.2	23.0	20.0	6.9	82

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 14...	55	13	1.8	230	30	0.690	0.030	0.220	4.9
JAN 16...	40	30	1.7	<20	50	0.610	0.130	0.060	12
MAR 26...	130	66	0.5	560	13	0.380	0.060	0.060	6.0
MAY 15...	10	17	0.6	140	24	0.630	<0.030	0.090	3.9
JUN 19...	10	13	1.7	70	30	0.850	<0.030	0.100	4.8
JUL 19...	30	22	1.0	790	35	0.580	<0.030	0.160	4.7
AUG 23...	20	9.0	0.1	230	33	0.900	<0.030	0.180	4.1
SEP 25...	25	16	1.2	80	32	0.610	0.040	0.130	5.2

ALTAMAHA RIVER BASIN

02215100 TUCSAWHATCHEE CREEK NEAR HAWKINSVILLE, GA.

LOCATION.--Lat 32°14'22", long 83°30'06", Pulaski County, Hydrologic Unit 03070104, in left bank 90 ft upstream from State Highways 27 and 257, 0.6 mi upstream from Cedar Creek, 0.6 mi downstream from Long Branch, and 3.5 mi southwest of Hawkinsville.

DRAINAGE AREA.--163 mi².

PERIOD OF RECORD.--Water years 1984-86 (annual maximum), April 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is 210.49 ft above National Geodetic Vertical Datum of 1929 (from Georgia Department of Transportation). Dec. 6, 1984 to Apr. 1, 1986, crest-stage gage at site 100 ft downstream at datum 3.00 ft higher.

REMARKS.--No estimated daily discharge. Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,760 ft³/s, Jan. 20, 1987; gage height, 11.94 ft, minimum discharge, 1.1 ft³/s, July 23, 24, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 2	2200	1,250	9.05	Feb. 18	2200	1,020	8.39
Jan. 8	1700	*1,810	*10.32				

Minimum discharge, 4.2 ft³/s, Aug. 21, Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	22	78	512	289	246	239	52	20	6.9	6.1	7.0
2	121	22	65	1170	256	240	225	41	20	6.2	6.3	6.4
3	212	24	58	1070	246	244	186	36	26	6.1	11	5.9
4	162	24	54	630	246	257	163	33	23	8.9	19	5.6
5	70	26	51	430	229	263	132	31	18	11	20	5.1
6	53	26	50	518	213	228	115	31	15	10	14	4.9
7	42	24	51	1000	198	202	109	31	14	8.9	11	4.7
8	37	27	108	1680	194	186	99	30	19	9.1	9.7	4.4
9	31	61	268	1600	203	172	98	30	50	12	11	6.0
10	27	83	507	1200	209	162	89	49	59	13	32	7.9
11	25	96	509	796	273	164	95	60	41	9.7	32	9.1
12	25	63	330	578	384	162	116	48	29	8.5	22	13
13	25	45	334	459	333	143	134	36	24	8.3	16	10
14	25	39	497	393	250	136	92	33	21	9.8	13	8.6
15	27	35	518	344	215	130	82	31	19	13	10	8.7
16	28	47	324	317	225	125	77	32	21	12	8.2	9.2
17	27	53	247	300	402	197	72	27	21	10	7.4	8.4
18	27	50	222	287	877	369	66	24	19	11	6.2	8.2
19	28	43	252	277	844	724	60	21	17	30	5.7	6.7
20	27	39	347	269	584	528	56	19	14	40	5.1	6.5
21	26	37	470	318	543	296	56	19	14	35	4.6	6.5
22	25	37	426	510	436	239	56	27	13	25	5.2	6.0
23	24	75	318	796	461	205	54	30	12	19	6.1	6.0
24	24	119	257	562	567	177	52	24	12	16	9.3	5.7
25	23	148	221	395	474	159	49	20	12	14	7.2	5.5
26	22	92	202	382	347	140	45	17	12	13	6.0	5.9
27	21	69	192	420	285	127	41	16	11	11	5.1	6.0
28	21	62	182	382	259	118	50	17	9.5	9.5	4.9	5.9
29	21	71	169	307	---	180	61	35	8.8	7.9	8.1	6.2
30	20	86	157	286	---	207	59	40	7.8	7.1	9.3	7.3
31	20	---	191	293	---	210	---	25	---	6.5	7.2	---
TOTAL	1318	1645	7655	18481	10042	6936	2828	965	602.1	408.4	338.7	207.3
MEAN	42.5	54.8	247	596	359	224	94.3	31.1	20.1	13.2	10.9	6.91
MAX	212	148	518	1680	877	724	239	60	59	40	32	13
MIN	20	22	50	269	194	118	41	16	7.8	6.1	4.6	4.4
CFSM	.26	.34	1.52	3.66	2.20	1.37	.58	.19	.12	.08	.07	.04
IN.	.30	.38	1.75	4.22	2.29	1.58	.65	.22	.14	.09	.08	.05
CAL YR 1989	TOTAL	40417.0	MEAN	111	MAX	1180	MIN	11	CFSM	.68	IN	9.22
WTR YR 1990	TOTAL	51426.5	MEAN	141	MAX	1680	MIN	4.4	CFSM	.87	IN	11.74

ALTAMAHA RIVER BASIN

02215260 OCMULGEE RIVER AT ABBEVILLE, GA.

WATER-QUALITY RECORDS

LOCATION.--Lat 31°59'47", long 83°16'43", Wilcox-Telfair County line, Hydrologic Unit 03070104, at bridge on U.S. Highway 280, 1.0 mi east of Abbeville.

DRAINAGE AREA.--4,460 mi².

PERIOD OF RECORD.--August 1974 to June 1979, July 1990 to September 1990.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey. Flow regulated by Lloyd Shoals Reservoir (See "Lakes and Reservoirs in Altamaha River Basin", station 02210000).

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
JUL 19...	1500	1650	138	138	6.8	7.3	28.0	25.0	6.2	80
SEP 25...	1435	1350	143	145	7.5	7.4	24.0	27.0	7.2	87

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CAO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUL 19...	25	11	0.6	210	33	0.660	<0.030	0.140	4.6
SEP 25...	20	14	0.8	40	36	0.700	0.060	0.130	5.6

ALTAMAHA RIVER BASIN

02215500 OCMULGEE RIVER AT LUMBER CITY, GA.

LOCATION.--Lat 31°55'06", long 82°40'26", Telfair-Jeff Davis County line, Hydrologic Unit 03070104, near left bank on downstream end of pier of bridge on U.S. Highway 341 at Lumber City, 500 ft downstream from Southern Railway bridge, 1 mi upstream from Little Ocmulgee River, and 12 mi upstream from confluence with Oconee River.

DRAINAGE AREA.--5,180 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1936 to current year. Gage-height records collected at same site since 1908 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1504: 1937.

GAGE.--Water-stage recorder. Datum of gage is 87.48 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 8, 1937, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lloyds Shoals Reservoir. (See Lakes and Reservoirs in Altamaha River Basin," station 02210000.)

AVERAGE DISCHARGE.--54 years, 5,461 ft³/s, 14.32 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,000 ft³/s, Dec. 8, 1948; maximum gage height, 22.7 ft, Dec. 9, 1948; minimum discharge, 800 ft³/s, Oct. 30 to Nov. 3, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1841, 98,400 ft³/s, Jan. 21, 1925, from rating extended above 67,000 ft³/s on basis of records of peak flow for stations on Ocmulgee, Oconee, and Altamaha Rivers; maximum stage known, 26.3 ft, Jan. 21, 1925, backwater from Oconee River.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 15	0200	17,200	13.20	Mar. 2	1900	20,900	14.24
Jan. 10	1300	19,700	13.94	Mar. 28	0800	*41,500	*17.98

Minimum discharge, 1,200 ft³/s, July 12, gage height, 0.90 ft.

ALTAMAHA RIVER BASIN

02215500 OCMULGEE RIVER AT LUMBER CITY, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2520	2130	3330	6770	9120	19600	19600	3770	2640	1600	2130	1880
2	2900	2020	3130	6980	9180	20700	15800	3730	3050	1570	1860	1650
3	3180	1880	3160	7070	9510	20100	12500	3780	3420	1500	1690	1570
4	3440	1820	3290	7090	10300	18400	10200	3870	3640	1420	1520	1540
5	3710	1910	3310	7200	11600	16200	8830	3940	3660	1360	1520	1770
6	3970	2030	3200	7660	13100	13500	8130	3910	3390	1320	1570	2070
7	4260	2140	3080	9100	14300	11100	7820	3830	3010	1290	1640	2090
8	4730	2310	2980	13300	14400	9290	7580	3740	2750	1280	1680	1910
9	5730	2360	3360	17600	13200	8280	7350	3690	2720	1250	1760	1810
10	7000	2240	3750	19500	11500	7860	7070	3630	2670	1230	1850	2070
11	8270	2260	3950	18700	10100	7680	6780	3550	2620	1220	1920	2020
12	10400	2450	4230	17400	9100	7570	6500	3540	2660	1200	1910	1830
13	14000	2650	4760	16400	8430	7460	6250	3530	2650	1220	1740	1700
14	16700	2840	5250	15500	7990	7290	6030	3610	2530	1240	1750	1600
15	16900	2930	5610	13900	7700	7090	5860	3760	2350	1260	2130	1590
16	15300	2830	5980	13000	7540	6910	5740	3900	2250	1240	2410	1680
17	12500	2550	6460	12300	7850	6830	5640	3990	2120	1250	2280	1680
18	8950	2370	7090	11900	8210	7080	5550	3950	2040	1330	2020	1680
19	5900	2340	8020	11600	8880	7440	5500	3760	1990	1460	1790	1780
20	4460	2470	9570	11100	9840	7610	5500	3560	1930	1520	1660	1910
21	3620	2790	10600	10400	10900	7620	5470	3340	1870	1630	1600	2170
22	3420	3130	10600	9710	11800	7620	5370	3120	1820	1790	1560	2410
23	3290	3370	10100	9120	12800	7820	5160	3060	1780	1890	1490	2490
24	2890	3290	9420	8730	13400	8800	4860	3030	1810	1880	1410	2230
25	2610	2980	8700	8600	13500	12600	4580	2980	1820	2080	1380	1840
26	2440	2990	8090	8880	13900	24100	4380	3220	1800	2470	1340	1660
27	2250	3150	7660	9160	15200	37100	4210	3440	1730	2770	1380	1580
28	2160	3280	7330	9240	17400	41100	4080	3420	1670	2940	1470	1540
29	2240	3380	7090	9140	---	37400	4000	3150	1650	2950	1590	1450
30	2250	3430	6890	9090	---	30400	3880	2840	1600	2760	1950	1420
31	2190	---	6630	9130	---	24500	---	2620	---	2430	2130	---
TOTAL	184180	78320	186620	345270	310750	457050	210220	109260	71640	52350	54130	54620
MEAN	5941	2611	6020	11140	11100	14740	7007	3525	2388	1689	1746	1821
MAX	16900	3430	10600	19500	17400	41100	19600	3990	3660	2950	2410	2490
MIN	2160	1820	2980	6770	7540	6830	3880	2620	1600	1200	1340	1420
CFSM	1.15	.50	1.16	2.15	2.14	2.85	1.35	.68	.46	.33	.34	.35
IN.	1.32	.56	1.34	2.48	2.23	3.28	1.51	.78	.51	.38	.39	.39
CAL YR 1989	TOTAL	1569430	MEAN	4300	MAX	16900	MIN	1660	CFSM	.83	IN 11.27	
WTR YR 1990	TOTAL	2114410	MEAN	5793	MAX	41100	MIN	1200	CFSM 1.12		IN 15.18	

ALTAMAHA RIVER BASIN

02215500 OCMULGEE RIVER AT LUMBER CITY, GA--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
04...	1515	3480	108	105	7.6	7.3	24.0	31.5	7.9	94
NOV										
06...	1615	2040	141	144	7.6	7.6	18.0	30.5	8.7	92
DEC										
07...	0720	3110	120	116	7.6	7.2	10.0	14.0	7.9	70
JAN										
11...	0720	18900	68	70	7.0	6.5	11.0	6.5	6.5	59
FEB										
14...	1610	7940	83	85	7.1	6.8	15.0	24.0	6.6	65
MAR										
08...	0705	9540	78	81	7.1	6.8	14.0	11.0	6.1	58
APR										
04...	1515	9920	77	78	7.2	7.0	16.0	19.0	5.6	57
MAY										
10...	0610	3660	114	104	7.6	7.4	20.5	21.5	6.1	68
JUN										
07...	0605	3090	116	115	7.5	7.2	24.5	23.0	5.9	71
JUL										
18...	0555	1290	177	177	7.8	7.5	28.5	25.0	5.5	71
AUG										
08...	1405	1680	151	153	8.0	8.0	29.5	32.0	6.8	89
SEP										
19...	0635	1760	145	147	7.7	7.6	26.0	17.5	6.3	77

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
OCT							
04...	30	25	--	1.1	130	25	26
NOV							
06...	20	9.0	14	0.6	110	46	4
DEC							
07...	30	14	19	0.8	<20	35	11
JAN							
11...	130	29	15	1.7	460	15	6
FEB							
14...	8	25	24	0.8	80	24	16
MAR							
08...	--	28	17	0.6	<30	21	16
APR							
04...	60	29	26	0.7	20	23	1
MAY							
10...	30	18	10	--	--	34	16
JUN							
07...	50	15	16	--	--	30	23
JUL							
18...	10	9.0	--	1.0	--	60	14
AUG							
08...	40	16	--	1.6	110	43	17
SEP							
19...	40	12	--	1.0	--	40	15

ALTAMAHA RIVER BASIN

02215500 OCMULGEE RIVER AT LUMBER CITY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 04...	0.710	<0.030	--	--	--	0.130	--
NOV 06...	0.620	0.040	0.26	0.30	0.92	0.140	2.9
DEC 07...	0.590	<0.030	--	<0.10	--	0.090	3.8
JAN 11...	0.160	<0.030	--	1.2	1.4	0.060	7.2
FEB 14...	0.310	0.060	0.04	0.10	0.41	0.230	5.3
MAR 08...	0.360	0.100	0.40	0.50	0.86	0.210	5.2
APR 04...	0.340	<0.030	--	0.24	0.58	0.160	8.7
MAY 10...	0.640	0.060	0.12	0.18	0.82	0.120	2.2
JUN 07...	0.460	<0.030	--	0.20	0.66	0.160	4.3
JUL 18...	0.510	<0.030	--	--	--	0.080	3.5
AUG 08...	0.020	<0.030	--	--	--	0.060	10
SEP 19...	0.590	0.610	--	--	--	0.100	2.9

ALTAMAHA RIVER BASIN

02216180 TURNPIKE CREEK NEAR MCRAE, GA.

LOCATION.--Lat 31°59'29", long 82°55'19", Telfair County, Hydrologic Unit 03070105, on downstream side of bridge pier on U.S. Highways 319 and 441, 4.8 mi south of McRae.

DRAINAGE AREA.--49.2 mi².

PERIOD OF RECORD.--January 1983 to current year.

GAGE.--Water-stage recorder. Datum of gage is 173.17 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.--No estimated daily discharges. Records good, except those less than 1 ft³/s, which are fair.

AVERAGE DISCHARGE.--7 years, 41.7 ft³/s, 11.51 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,200, Nov. 22, 1985, gage height, 10.56 ft; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 8	0545	*1,420	*9.64	No other peak greater than base discharge.			

Minimum discharge, no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.00	4.8	256	113	61	96	.06	.00	.00	.00	.00
2	.68	.00	4.8	268	97	59	85	.02	.00	.00	.00	.00
3	.29	.00	3.8	245	85	61	69	.01	.00	.00	.00	.00
4	.08	.00	3.0	158	83	59	50	.00	.00	.00	.00	.00
5	.97	.00	2.4	110	79	55	31	.00	.00	.00	.00	.00
6	1.0	.00	2.1	128	69	48	21	.00	.00	.00	.00	.00
7	.20	.00	2.0	604	63	42	44	.00	.00	.00	.00	.00
8	.04	.00	21	1270	66	39	46	.00	.00	.00	.00	.00
9	.01	.00	63	799	61	34	37	.00	.00	.00	.00	.00
10	.00	.06	74	397	71	33	24	.01	.00	.00	.00	.00
11	.00	.05	71	260	147	32	26	.00	.00	.00	.00	.00
12	.00	.03	61	202	144	30	24	.00	.00	.00	.00	.00
13	.00	.01	76	158	109	28	19	.00	.00	.00	.00	.00
14	.00	.00	73	132	76	26	15	.00	.00	.00	.00	.00
15	.00	.00	72	118	64	24	11	.00	.00	.00	.00	.00
16	.00	1.2	59	109	70	22	8.4	.00	.00	.00	.00	.00
17	.00	1.2	38	105	171	56	5.8	.00	.00	.00	.00	.00
18	.02	.78	42	101	188	190	4.2	.00	.00	.00	.00	.00
19	1.7	.58	92	100	242	175	3.2	.00	.00	.00	.00	.00
20	1.4	.50	215	96	228	118	2.5	.00	.00	.00	.00	.00
21	.98	.38	213	118	183	61	2.1	.00	.00	.00	.00	.00
22	.64	.22	176	206	144	38	1.9	.00	.00	.00	.00	.00
23	.26	1.3	108	213	163	27	1.7	.00	.00	.00	.00	.00
24	.06	1.7	73	169	151	23	1.3	.00	.00	.00	.00	.00
25	.02	4.3	59	132	122	20	.94	.00	.00	.00	.00	.00
26	.01	14	55	166	86	17	.55	.00	.00	.00	.00	.00
27	.00	8.4	52	158	67	14	.31	.00	.00	.00	.00	.00
28	.00	5.4	50	138	61	12	.19	.00	.00	.00	.00	.00
29	.00	6.1	47	113	---	13	.13	.00	.00	.00	.00	.00
30	.00	4.8	46	114	---	21	.09	.00	.00	.00	.00	.00
31	.00	---	74	122	---	79	---	.00	---	.00	.00	---
TOTAL	8.46	51.01	1932.9	7265	3203	1517	631.31	.10	.00	.00	.00	.00
MEAN	.27	1.70	62.4	234	114	48.9	21.0	.003	.000	.000	.000	.000
MAX	1.7	14	215	1270	242	190	96	.06	.00	.00	.00	.00
MIN	.00	.00	2.0	96	61	12	.09	.00	.00	.00	.00	.00
CFSM	.005	.04	1.27	4.75	2.32	.99	.43	.000	.000	.000	.000	.000
IN.	.01	.04	1.46	5.49	2.42	1.15	.48	.00	.00	.00	.00	.00
CAL YR 1989	TOTAL	10531.90	MEAN	28.9	MAX	295	MIN	.00	CFSM	.59	IN	7.96
WTR YR 1990	TOTAL	14608.78	MEAN	40.0	MAX	1270	MIN	.00	CFSM	.81	IN	11.04

ALTAMAHA RIVER BASIN

02217475 MIDDLE OCONEE RIVER NEAR ARCADE, GA.

LOCATION.--Lat 34°01'54", long 83°33'48", Jackson-Barrow County line, Hydrologic Unit 03070101, on downstream side of bridge on State Highway 82, 1.7 mi downstream from Mulberry River, 3.2 mi upstream from Redstone Creek, and 3.2 mi south of Arcade.

DRAINAGE AREA.--340 mi².

PERIOD OF RECORD.--March 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 660 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft³/s, March 18, 1990, gage height 25.34 ft; minimum daily discharge, 16 ft³/s, July 20-21, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	0700	9,530	22.45	Feb. 17	1330	5,340	16.96
Jan. 26	0700	6,440	18.54	Feb. 19	2130	4,230	15.02
Feb. 10	1930	4,140	14.80	Mar. 18	0300	*13,800	*25.34

Minimum daily discharge, 87 ft³/s, July 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4460	302	390	909	758	735	758	487	320	125	154	304
2	8720	292	386	686	722	796	707	456	348	122	160	197
3	3870	296	375	589	706	1490	672	453	393	114	168	164
4	1300	290	361	572	1110	1090	660	441	382	105	166	153
5	937	280	363	666	1220	881	652	473	325	101	157	138
6	760	297	360	1200	862	810	635	454	299	103	202	132
7	658	392	360	1070	782	765	660	419	295	94	172	130
8	585	758	1040	1070	728	789	631	398	312	87	153	140
9	526	553	1230	923	969	1410	611	420	311	95	155	124
10	478	423	986	776	3770	1590	612	609	291	107	247	121
11	455	355	789	699	2630	1050	828	469	263	119	212	156
12	436	337	824	648	1210	904	665	416	249	110	162	204
13	414	328	1350	591	954	829	613	406	228	205	147	220
14	404	322	886	559	850	787	611	425	224	242	143	616
15	389	387	731	543	794	755	617	387	215	388	141	618
16	382	1480	662	534	1760	1300	597	370	207	209	134	308
17	387	944	597	528	4540	8180	575	365	225	166	125	220
18	384	620	558	539	2150	10600	548	355	217	163	123	191
19	373	515	571	556	3760	3370	534	338	203	160	117	174
20	342	467	580	545	2940	1590	527	340	184	942	132	168
21	327	446	531	2560	1400	1290	536	436	173	917	129	159
22	321	423	504	1840	1180	1100	551	426	171	632	159	677
23	312	986	464	958	1120	980	526	354	184	382	298	459
24	308	722	430	845	958	910	515	337	169	290	277	257
25	299	573	455	3390	859	855	504	331	156	235	193	210
26	298	513	444	5530	805	815	474	325	150	214	164	197
27	292	473	440	2000	781	818	461	321	148	195	150	181
28	291	458	439	1180	767	755	496	428	149	184	144	173
29	293	439	428	1000	---	766	630	484	144	182	131	177
30	285	404	468	961	---	802	513	361	137	176	126	170
31	293	---	557	838	---	775	---	327	---	160	421	---
TOTAL	29579	15075	18559	35305	41085	49587	17919	12611	7072	7324	5362	7138
MEAN	954	503	599	1139	1467	1600	597	407	236	236	173	238
MAX	8720	1480	1350	5530	4540	10600	828	609	393	942	421	677
MIN	285	280	360	528	706	735	461	321	137	87	117	121
CFSM	2.81	1.48	1.76	3.35	4.32	4.71	1.76	1.20	.69	.69	.51	.70
IN.	3.24	1.65	2.03	3.86	4.50	5.43	1.96	1.38	.77	.80	.59	.78
CAL YR 1989	TOTAL	168428	MEAN	461	MAX	8720	MIN	119	CFSM	1.36	IN	18.43
WTR YR 1990	TOTAL	246616	MEAN	676	MAX	10600	MIN	87	CFSM	1.99	IN	26.98

ALTAMAHA RIVER BASIN

02217500 MIDDLE OCONEE RIVER NEAR ATHENS, GA.

LOCATION.--Lat 33°56'58", long 83°25'43", Clarke County, Hydrologic Unit 03070101, on left bank 0.5 mi upstream from U.S. Highway 78 and U.S. Highway 29 Bus., 2 mi west of Athens, and 5 mi upstream from Barber Creek.

DRAINAGE AREA.--398 mi².

PERIOD OF RECORD.--October 1901 to September 1902, January 1929 to March 1932, May 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 555.66 ft above National Geodetic Vertical Datum of 1929. Oct. 11, 1901 to Oct. 25, 1902, nonrecording gage at site 1 mi upstream at different datum. Jan. 16, 1929 to Mar. 15, 1932 and Apr. 29, 1937 to Sept. 30, 1940, water-stage recorder at site 4 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey. Diversion upstream from station for municipal supply of Athens.

AVERAGE DISCHARGE.--56 years (water years 1902, 1930-31, 1938-90), 516 ft³/s, 17.61 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 19,600 ft³/s, Feb. 28, 1902, gage height, 25.5 ft, site and datum then in use; minimum daily, 8.2 ft³/s, Aug. 8, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	1900	10,500	17.72	Feb. 17	2230	5,470	11.74
Jan. 26	1830	6,400	13.12	Feb. 19	0800	5,770	12.20
Feb. 11	0330	4,600	10.40	Mar. 18	1330	*13,700	*20.84

Minimum daily discharge, 109 ft³/s, July 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4350	380	424	787	802	809	876	563	393	176	171	396
2	8730	377	427	689	742	853	817	538	416	138	194	260
3	6740	377	420	567	720	1580	766	523	460	157	193	199
4	1790	376	413	541	886	1340	747	522	453	143	197	161
5	1090	368	413	599	1470	1010	741	532	402	139	192	172
6	840	366	413	1100	907	908	718	541	369	175	214	154
7	703	454	420	1270	800	863	742	498	362	109	207	147
8	610	661	800	1050	745	845	711	486	367	128	196	187
9	549	593	1460	996	840	1400	699	489	363	146	194	152
10	504	485	1060	776	4290	1930	689	619	360	141	311	145
11	478	424	803	681	3720	1240	874	562	326	156	273	140
12	459	408	759	624	1490	1040	784	502	309	151	218	219
13	444	406	1420	590	1110	947	694	485	287	191	176	225
14	440	397	964	558	965	898	682	498	283	277	169	435
15	436	432	738	546	885	853	683	471	277	395	178	723
16	427	1190	656	533	1920	1160	670	454	263	296	173	380
17	441	1160	593	532	4610	8100	646	455	267	219	154	264
18	436	613	562	528	3460	12600	622	445	278	229	133	216
19	431	525	561	548	5070	6350	606	429	274	219	147	197
20	410	487	567	556	4180	2090	596	422	237	967	147	187
21	401	473	546	2580	1790	1650	599	481	230	1180	135	176
22	394	464	521	2530	1410	1430	613	500	211	630	149	475
23	389	783	494	1110	1320	1240	592	437	236	395	450	609
24	386	758	470	912	1140	1130	579	415	229	328	340	307
25	382	562	473	3190	1010	1060	574	414	206	271	267	234
26	377	516	471	5790	929	994	550	404	192	266	192	207
27	371	485	469	3300	881	990	536	404	191	255	178	207
28	369	472	468	1400	852	922	603	450	177	228	180	183
29	372	456	462	1120	---	889	682	520	188	224	169	200
30	378	436	469	1060	---	929	598	448	193	210	145	194
31	370	---	545	910	---	890	---	404	---	197	302	---
TOTAL	34497	15884	19261	37973	48944	58940	20289	14911	8799	8736	6344	7751
MEAN	1113	529	621	1225	1748	1901	676	481	293	282	205	258
MAX	8730	1190	1460	5790	5070	12600	876	619	460	1180	450	723
MIN	369	366	413	528	720	809	536	404	177	109	133	140
CFSM	2.80	1.33	1.56	3.08	4.39	4.78	1.70	1.21	.74	.71	.52	.65
IN.	3.22	1.48	1.80	3.55	4.57	5.51	1.90	1.39	.82	.82	.59	.72
CAL YR 1989	TOTAL	186803	MEAN	512	MAX	8730	MIN	116	CFSM	1.29	IN	17.46
WTR YR 1990	TOTAL	282329	MEAN	774	MAX	12600	MIN	109	CFSM	1.95	IN	26.39

ALTAMAHA RIVER BASIN

02217740 NORTH OCONEE RIVER ABOVE ATHENS, GA

LOCATION.-Lat 33°58'28", long 83°22'56", Clarke County, Hydrologic Unit 03070101, at City of Athens water intake, 0.3 mi north of the Athens city limits.

PERIOD OF RECORD.-July 1974 to current year.

REMARKS.-Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC 13...	0730	850	54	--	6.7	6.9	8.0	2.0	10.4	90
MAR 13...	1420	770	56	55	7.0	7.0	17.0	27.5	8.3	87
JUN 12...	1150	185	68	64	7.2	7.5	22.5	28.0	8.0	94
JUL 18...	1250	185	--	62	7.1	7.1	24.0	28.0	6.7	--
AUG 13...	1525	140	65	63	7.1	7.1	25.0	33.0	7.0	86
SEP 12...	1010	130	74	71	7.2	7.3	24.0	30.0	6.7	81

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC 13...	29	2.3	11000	16	18	0.330	0.040	0.080	3.4
MAR 13...	20	0.8	70	16	15	0.430	<0.030	<0.020	2.8
JUN 12...	20	0.4	130	23	28	0.470	0.070	0.060	2.7
JUL 18...	35	0.8	2300	22	20	0.310	<0.030	0.060	3.7
AUG 13...	20	0.7	230	20	17	0.360	<0.030	0.070	2.3
SEP 12...	20	1.2	460	26	14	0.330	<0.030	0.050	3.5

ALTAMAHA RIVER BASIN

02218000 OCONEE RIVER NEAR WATKINSVILLE, GA

LOCATION.-Lat 33°51 '21", long 83°19'35", Oconee-Clarke County line, Hydrologic Unit 03070101 , at bridge on Barnett Shoals Road, 1 mi upstream from Barnett Shoals Dam and 4 mi east of Watkinsville.

DRAINAGE AREA.-783 mi²

PERIOD OF RECORD.-July 1974 to current year.

REMARKS.-Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Water-discharge records for water years 1901-02 are published in records of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 11...	1140	1210	74	76	6.9	7.0	15.5	20.0	9.0	91
NOV 14...	0830	960	85	80	7.4	6.8	13.0	12.5	8.9	85
DEC 13...	0830	2560	63	61	7.0	7.1	8.0	2.5	11.6	100
JAN 09...	1000	2400	64	61	7.1	6.9	8.5	7.5	10.8	94
FEB 13...	1250	2610	54	57	6.9	6.9	11.0	22.0	10.9	100
MAR 13...	1330	1960	58	57	7.0	6.9	17.0	27.0	9.0	94
APR 11...	1240	1480	65	63	7.2	7.1	15.5	17.0	9.6	97
MAY 08...	1150	860	71	72	7.1	7.2	18.0	25.0	8.5	91
JUN 12...	1110	700	83	80	7.2	7.1	23.5	25.0	7.8	93
JUL 18...	0940	680	85	83	7.1	7.1	24.5	28.0	6.5	79
AUG 13...	1410	240	74	73	7.1	7.3	26.0	30.0	7.3	91
SEP 12...	0920	680	103	100	7.2	7.1	24.5	27.0	6.0	73

ALTAMAHA RIVER BASIN

02218000 OCONEE RIVER NEAR WATKINSVILLE, GA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)
OCT						
11...	23	--	2.6	--	21	17
NOV						
14...	12	--	2.5	500	20	10
DEC						
13...	55	--	2.3	7900	16	53
JAN						
09...	44	--	1.5	790	13	38
FEB						
13...	74	--	0.5	790	13	48
MAR						
13...	26	--	0.9	490	15	20
APR						
11...	25	--	1.1	2800	19	36
MAY						
08...	19	--	1.1	270	19	25
JUN						
12...	14	--	0.5	7000	19	27
JUL						
18...	22	17	1.5	3300	20	27
AUG						
13...	14	6	0.9	1100	20	11
SEP						
12...	26	9	2.6	1700	22	23

DATE	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
11...	0.740	0.150	--	--	--	0.210	--
NOV							
14...	0.980	0.170	--	--	--	0.200	2.6
DEC							
13...	0.730	0.130	--	--	--	0.090	5.0
JAN							
09...	0.790	0.190	--	--	--	0.170	3.7
FEB							
13...	0.730	0.100	--	--	--	0.240	6.0
MAR							
13...	0.690	0.100	--	--	--	0.120	3.5
APR							
11...	0.640	0.080	--	--	--	0.100	5.7
MAY							
08...	0.790	0.160	--	--	--	0.140	2.4
JUN							
12...	1.10	0.120	--	--	--	0.180	2.9
JUL							
18...	1.13	0.090	0.21	0.30	1.4	0.190	4.6
AUG							
13...	0.850	0.040	0.16	0.20	1.0	0.130	2.7
SEP							
12...	1.72	0.150	0.25	0.40	2.1	0.160	3.4

ALTAMAHA RIVER BASIN

02218300 OCONEE RIVER NEAR PENFIELD, GA

LOCATION.-Lat 33°43'14", long 83°17'45" (revised), Greene County, Hydrologic Unit 03070101, on downstream side of bridge on State Highway 15, 7.0 mi upstream from Greenbrier Creek, 8.0 mi northwest of Penfield, and 10.0 mi southeast of Watkinsville.

DFAINAGE AREA-940 mi²

PERIOD OF RECORD.-Water years 1970-77 (annual maximum), August 1977 to current year.

GAGE.-Water-stage recorder. Datum of gage is 433.26 ft above National Geodetic Vertical Datum of 1929. Nov. 4, 1969 to July 21, 1977, crest-stage gage, and July 22, 1977 to August 1, 1990, water-stage recorder at site 300 ft upstream at same datum.

REMARKS.-No estimated daily discharges. Records good. Some regulation at low flow from manipulation of Barnett Shoals Dam.

AVERAGE DISCHARGE.-13 years, 1,165 ft³/s, 16.83 in/yr.

EXTREMES FOR PERIOD OF RECORD.-maximum discharge, 37,300 ft³/s, Oct. 1, 1989, gage height, 25.92 ft, from rating curve extended above 22,000 ft³/s on basis of computation of flow over Barnett Shoals Dam located 10 mi upstream; minimum daily discharge, 33 ft³/s, Aug. 26, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.-Flood of Apr. 6, 1936, reached a stage of 26.7 ft, discharge, 41,500 ft³/s, from rating curve extended above 22,000 ft³/s on basis of computation of flow over Barnett Shoals Dam located 10 mi upstream.

EXTREMES FOR CURRENT YEAR.-Peak discharges greater than base discharge of 4,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1900	*37,300	*25.92	Feb. 11	1000	8,670	15.73
Jan. 22	2100	5,670	13.07	Feb. 19	2200	14,500	19.35
Jan. 27	1700	10,100	16.79	Mar. 17	2000	24,600	23.30

Minimum daily discharge, 289 ft³/s, Aug. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21500	793	909	1560	1780	1720	1820	1290	766	411	450	836
2	21900	807	886	1640	1640	1720	1770	1210	807	386	441	647
3	16600	816	875	1420	1560	2670	1660	1080	962	345	472	507
4	12700	796	849	1250	1570	3050	1590	1060	1080	350	486	434
5	6690	779	824	1230	2210	2580	1550	1160	886	335	476	386
6	3030	772	825	2130	2100	2020	1530	1140	782	317	494	370
7	2380	826	830	2720	1780	1800	1530	1090	736	344	531	346
8	2000	1440	1370	2750	1600	1700	1520	1020	714	297	484	341
9	1690	1560	2570	2460	1570	2140	1460	1010	722	346	450	371
10	1500	1250	2520	1990	5180	3320	1440	1160	906	359	753	345
11	1380	1020	2060	1680	8560	2970	1690	1240	722	294	777	339
12	1290	898	1780	1490	7500	2270	1720	1070	661	331	599	404
13	1210	862	2770	1350	3810	1900	1520	983	626	328	496	445
14	1150	847	2500	1260	2260	1750	1430	974	599	528	430	821
15	1110	856	1970	1210	1940	1660	1430	970	586	669	417	1450
16	1070	1400	1620	1170	3550	1960	1410	890	577	732	398	1080
17	1040	2400	1400	1140	8210	14900	1350	856	583	563	368	716
18	1110	1850	1280	1140	8810	20600	1300	861	586	587	337	560
19	1060	1390	1270	1160	12100	18500	1250	824	590	565	308	475
20	1010	1140	1280	1140	12300	11400	1240	798	529	1470	289	451
21	938	1050	1230	2800	8740	6070	1240	1040	488	2710	294	432
22	901	1000	1160	5360	5480	3750	1260	1010	470	1850	347	532
23	880	1260	1090	4480	3460	3000	1250	930	489	1320	724	1080
24	857	1760	1030	2400	2750	2520	1230	838	491	922	834	891
25	855	1530	999	3860	2300	2300	1220	806	479	765	731	603
26	836	1270	1010	7540	2020	2130	1180	786	434	656	546	503
27	821	1130	1000	9580	1870	2080	1160	772	440	602	474	468
28	805	1060	993	7280	1790	1950	1190	791	434	565	419	437
29	788	1020	977	3060	—	1870	1720	941	425	522	374	427
30	790	958	976	2290	—	1890	1450	955	397	510	383	425
31	802	—	1090	2010	—	1880	—	842	—	492	691	—
TOTAL	110693	34540	41943	82550	118440	130070	43110	30397	18967	20471	15273	17122
MEAN	3571	1151	1353	2663	4230	4196	1437	981	632	660	493	571
MAX	21900	2400	2770	9580	12300	20600	1820	1290	1080	2710	834	1450
MIN	788	772	824	1140	1560	1660	1160	772	397	294	289	339
CFSM	3.80	1.22	1.44	2.83	4.50	4.46	1.53	1.04	.67	.70	.52	.61
IN.	4.38	1.37	1.66	3.27	4.69	5.15	1.71	1.20	.75	.81	.60	.68
CAL YR 1989	TOTAL	453961	MEAN	1244	MAX	21900	MIN	340	CFSM	1.32	IN	17.97
WTR YR 1990	TOTAL	663576	MEAN	1818	MAX	21900	MIN	289	CFSM	1.93	IN	26.26

ALTAMAHA RIVER BASIN

02219000 APALACHEE RIVER NEAR BOSTWICK, GA.

LOCATION.--Lat 33°47'17", long 83°28'27", Morgan-Oconee County line, Hydrologic Unit 03070101, on left bank 1,000 ft upstream from bridge on Price Mill Road, 3.0 mi southwest of Bishop, 4.0 mi upstream from Jacks Creek, and 4.0 mi northeast of Bostwick.
DRAINAGE AREA.--176 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1944 to December 1949, April 1977 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 535 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: July 31-Aug. 2. Records good, except those for July 31-Aug. 2, which are fair. Some regulation at low flow from High Shoals powerplant.

AVERAGE DISCHARGE.--18 years (water years 1945-49, 1978-90), 234 ft³/s, 18.06 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,500 ft³/s, Jan. 6, 1946, gage height, 8.9 ft; minimum daily discharge 7.5 ft³/s, Aug. 10, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1000	5,450	6.32	Feb. 19	0500	3,910	5.54
Feb. 10	2300	2,520	4.73	Mar. 17	0900	*7,910	*7.54

Minimum daily discharge, 39 ft³/s, July 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3420	143	167	320	348	312	309	219	100	85	92	133
2	3870	139	164	284	327	326	305	199	108	60	98	125
3	3030	144	161	250	323	544	287	170	187	67	104	93
4	861	140	155	235	326	469	274	190	159	44	97	121
5	439	141	154	244	370	372	270	198	132	55	81	126
6	347	137	154	511	360	334	262	195	106	77	116	238
7	295	152	161	543	324	314	267	175	75	43	85	249
8	260	170	300	529	314	333	266	173	111	39	70	249
9	232	245	492	462	357	555	252	174	92	47	89	243
10	216	245	458	416	1660	591	244	204	91	79	150	238
11	193	179	382	332	1980	476	304	175	97	69	165	234
12	203	169	347	297	846	380	292	130	72	45	118	241
13	177	156	458	275	502	334	259	122	72	92	96	241
14	194	155	416	259	422	314	248	118	83	95	90	300
15	182	161	324	250	385	304	256	111	109	111	109	346
16	176	235	285	257	843	411	253	118	101	118	93	299
17	171	303	300	260	1560	5390	240	109	93	68	93	205
18	167	259	257	260	1230	6170	223	106	98	121	73	121
19	172	218	261	272	3380	2090	217	104	81	157	57	104
20	151	191	271	266	2620	759	219	83	116	661	102	110
21	175	193	256	842	888	525	222	133	58	1220	84	85
22	153	151	241	1040	561	455	244	142	103	602	86	125
23	150	274	225	537	490	411	231	100	75	311	346	151
24	152	273	205	421	425	383	215	100	85	236	353	122
25	141	223	209	1530	370	364	206	96	87	191	210	111
26	150	197	207	1930	343	340	200	95	75	156	137	141
27	131	190	207	1280	330	336	189	93	69	137	112	109
28	138	185	205	582	315	320	189	85	52	122	122	103
29	107	181	201	452	---	296	303	155	104	118	106	100
30	174	172	204	432	---	323	244	137	53	106	84	99
31	137	---	229	391	---	324	---	112	---	90	154	---
TOTAL	16364	5721	8056	15959	22199	24855	7490	4321	2844	5422	3772	5162
MEAN	528	191	260	515	793	802	250	139	94.8	175	122	172
MAX	3870	303	492	1930	3380	6170	309	219	187	1220	353	346
MIN	107	137	154	235	314	296	189	83	52	39	57	85
CFSM	3.00	1.09	1.48	2.93	4.51	4.56	1.42	.79	.54	.99	.69	.98
IN.	3.46	1.21	1.70	3.37	4.69	5.25	1.58	.91	.60	1.15	.80	1.09
CAL YR 1989	TOTAL	80898	MEAN	222	MAX	3870	MIN	38	CFSM	1.26	IN	17.10
WTR YR 1990	TOTAL	122165	MEAN	335	MAX	6170	MIN	39	CFSM	1.90	IN	25.82

ALTAMAHA RIVER BASIN

02219000 APALACHEE RIVER NEAR BOSTWICK, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—July 1990 to September 1990.

REMARKS.—Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
JUL 18...	0910	116	55	54	6.9	7.2	25.0	23.5	8.1	99
SEP 12...	0840	231	58	58	7.1	7.1	24.5	26.0	7.1	86

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUL 18...	24	0.9	700	15	0.420	<0.030	0.100	9.9
SEP 12...	15	1.4	220	17	0.220	<0.030	0.080	4.3

ALTAMAHA RIVER BASIN

02220900 LITTLE RIVER NEAR EATONTON, GA.

LOCATION.--Lat 33°18'50", long 83°26'14", Putnam County, Hydrologic Unit 03070101, on downstream side of bridge on State Highway 16, 0.9 mi downstream from Gladly Creek, and 3.0 mi west of Eatonton.

DRAINAGE AREA.--262 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Water years 1971-77 (annual maximum), August 1977 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 370 ft above National Geodetic Vertical Datum of 1929 (from topographic map). Feb. 19, 1970 to Aug. 1, 1977, crest-stage gage and Aug. 2, 1977 to Aug. 25, 1987, water-stage recorder at same site and datum 4.00 ft higher.

REMARKS.--Estimated daily discharges: Feb. 20-22 and July 19-24. Records good, except those for periods of estimated daily discharge, which are fair.

AVERAGE DISCHARGE.--13 years, 215 ft³/s, 11.14 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft³/s, Mar. 3, 1971, gage height, 24.4 ft, datum then in use; maximum gage height 28.78 ft, Mar. 18, 1990; minimum daily discharge, 1.9 ft³/s, Aug. 4, 1988, but may have been less during the period of no gage height record, Aug. 2-8, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	1300	12,400	28.67	Feb. 19	1900	4,370	17.72
Feb. 10	1500	2,030	12.10	Mar. 18	0500	*12,500	*28.78

Minimum daily discharge, 14 ft³/s, July 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4730	83	98	574	269	295	326	153	124	32	35	129
2	11400	84	94	456	253	285	354	143	118	30	35	87
3	4500	88	97	308	245	374	315	134	125	27	117	64
4	1140	92	88	257	267	345	273	134	129	24	113	51
5	600	89	85	241	261	282	251	237	115	23	76	43
6	410	85	85	427	221	258	243	474	103	21	82	40
7	280	86	87	790	210	244	263	238	95	18	67	36
8	217	89	529	1180	202	236	248	175	90	17	62	34
9	176	102	1300	911	223	353	225	160	86	16	68	32
10	151	104	957	563	1300	556	222	207	82	15	111	31
11	138	98	536	398	1430	425	362	201	78	14	186	50
12	128	90	362	316	839	334	359	161	72	15	119	46
13	122	85	744	258	466	290	265	144	66	17	78	35
14	118	84	647	225	360	265	235	137	63	27	61	34
15	118	85	372	209	302	247	228	130	61	57	51	41
16	116	147	299	198	783	446	222	122	59	53	46	42
17	112	147	248	190	2250	6850	206	117	58	44	44	38
18	115	123	220	185	2340	10800	191	111	59	36	40	32
19	133	102	280	185	3480	2870	182	106	58	50	37	28
20	121	94	333	181	2900	1110	178	101	52	100	35	26
21	108	91	272	426	1500	761	179	127	46	200	38	25
22	101	99	228	511	840	581	180	244	49	120	43	24
23	98	137	198	340	704	473	179	157	53	95	57	24
24	94	199	173	268	536	417	174	127	47	85	49	21
25	93	163	175	812	422	375	164	116	43	77	42	19
26	92	131	173	880	358	340	156	109	39	65	39	18
27	87	120	169	636	324	324	149	112	37	56	46	17
28	84	113	164	405	313	309	149	149	37	49	40	16
29	83	124	158	345	---	327	171	328	37	44	35	16
30	82	109	155	369	---	403	172	213	33	41	52	16
31	82	---	218	315	---	362	---	144	---	37	80	---
TOTAL	25829	3243	9544	13359	23598	31537	6821	5211	2114	1505	1984	1115
MEAN	833	108	308	431	843	1017	227	168	70.5	48.5	64.0	37.2
MAX	11400	199	1300	1180	3480	10800	362	474	129	200	186	129
MIN	82	83	85	181	202	236	149	101	33	14	35	16
CFSM	3.18	.41	1.18	1.65	3.22	3.88	.87	.64	.27	.19	.24	.14
IN.	3.67	.46	1.36	1.90	3.35	4.48	.97	.74	.30	.21	.28	.16
CAL YR 1989	TOTAL	81734	MEAN	224	MAX	11400	MIN	33	CFSM	.86	IN	11.60
WTR YR 1990	TOTAL	125860	MEAN	345	MAX	11400	MIN	14	CFSM	1.32	IN	17.87

ALTAMAHA RIVER BASIN

02220900 LITTLE RIVER NEAR EATONTON, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—July 1990 to September 1990.

REMARKS.—Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
JUL 17...	0920	42	96	96	7.3	7.4	25.5	25.0	7.3	90
SEP 10...	0920	31	94	92	7.4	7.5	25.5	25.0	7.3	90

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUL 17...	17	0.5	—	38	0.300	<0.030	0.070	3.7
SEP 10...	10	0.9	130	34	0.210	<0.030	0.100	4.2

ALTAMAHA RIVER BASIN

02221525 MURDER CREEK BELOW EATONTON, GA.

LOCATION.--Lat 33°15'08", long 83°28'53", Putnam County, Hydrologic Unit 03070101, in left bank 250 ft upstream from bridge on county road S-777, 3.0 mi downstream from Beaverdam Creek, 5.8 mi upstream from mouth, and 7.5 mi southwest of Eatonton.
DRAINAGE AREA.--190 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1977 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 375 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good. Some diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--13 years, 150 ft³/s, 10.72 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,630 ft³/s, Mar. 18, 1990, gage height, 13.13 ft; minimum daily discharge 2.1 ft³/s, Aug. 6, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	1145	5,570	8.97	Mar. 18	0230	*9,630	*13.13
Feb. 20	1130	2,400	5.44				

Minimum daily discharge, 7.6 ft³/s, Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1250	58	70	475	178	194	225	126	98	26	26	39
2	4320	58	67	312	166	191	298	120	94	24	25	30
3	1790	61	65	206	161	256	252	114	96	22	51	26
4	456	63	62	173	188	222	208	112	103	19	64	23
5	202	60	62	165	194	190	192	133	90	18	40	20
6	137	60	64	345	159	177	185	176	82	18	54	18
7	109	61	70	526	151	169	206	138	77	17	69	17
8	92	62	870	867	147	164	186	119	73	14	42	16
9	81	71	1010	686	149	196	170	116	70	14	41	15
10	77	72	547	374	677	214	168	163	68	14	43	17
11	72	64	278	260	1070	193	262	142	66	13	41	19
12	71	61	235	209	596	178	224	118	62	14	34	21
13	72	60	551	173	331	171	185	113	58	20	30	17
14	84	60	347	154	256	168	172	120	57	30	27	17
15	95	62	219	144	219	163	173	115	54	49	26	20
16	81	114	181	135	485	279	170	108	53	35	25	21
17	73	91	149	130	1270	4570	159	102	52	31	24	17
18	73	70	138	126	1320	6640	151	98	51	37	22	14
19	93	65	228	128	1430	1550	143	89	47	53	20	13
20	84	63	332	124	2130	633	143	84	44	94	19	12
21	73	63	212	313	1010	417	145	89	40	159	18	11
22	68	63	167	376	529	326	148	115	38	84	18	11
23	65	96	141	226	454	281	146	93	41	56	29	10
24	63	112	120	186	339	251	140	84	39	47	24	10
25	62	81	124	536	266	240	135	81	36	44	21	8.8
26	61	75	118	609	229	223	130	78	33	39	23	8.2
27	59	73	113	346	211	206	125	79	32	35	22	8.2
28	58	72	107	250	202	198	126	98	31	33	25	8.2
29	58	81	102	221	---	234	146	292	30	30	20	7.8
30	58	77	99	245	---	302	133	152	27	28	21	7.6
31	58	---	139	205	---	247	---	110	---	27	40	---
TOTAL	9995	2129	6987	9225	14517	19443	5246	3677	1742	1144	984	482.8
MEAN	322	71.0	225	298	518	627	175	119	58.1	36.9	31.7	16.1
MAX	4320	114	1010	867	2130	6640	298	292	103	159	69	39
MIN	58	58	62	124	147	163	125	78	27	13	18	7.6
CFSM	1.70	.37	1.18	1.57	2.73	3.30	.92	.63	.31	.19	.17	.09
IN.	1.96	.42	1.37	1.81	2.84	3.81	1.03	.72	.34	.22	.19	.09

CAL YR 1989	TOTAL	50156.0	MEAN	137	MAX	4320	MIN	25	CFSM	.72	IN	9.82
WTR YR 1990	TOTAL	75571.8	MEAN	207	MAX	6640	MIN	7.6	CFSM	1.09	IN	14.80

ALTAMAHA RIVER BASIN

02221525 MURDER CREEK BELOW EATONTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1990 to September 1990.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
JUL 17...	0950	27	90	85	7.3	7.0	26.0	25.0	6.5	81
SEP 10...	0950	15	89	86	7.4	7.5	25.5	26.0	6.4	79

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CaCO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUL 17...	27	0.3	--	35	0.220	<0.030	0.080	3.8
SEP 10...	15	0.8	140	35	0.110	<0.030	0.090	3.6

ALTAMAHA RIVER BASIN

02223000 OCONEE RIVER AT MILLEDGEVILLE, GA.

LOCATION.--Lat 33°05'22", long 83°12'56", Baldwin County, Hydrologic Unit 03070102, on right bank at city of Milledgeville waterworks intake structure at Milledgeville, 0.5 mi upstream from bridge on State Highway 24, 3.8 mi downstream from Sinclair Dam, and at mile 139.1.
DRAINAGE AREA.--2,950 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1903 to current year.

REVISED RECORDS.--WSP 1142: 1928(M). WSP 1504: 1903-4, 1908, 1912-13, 1914(M), 1915-17. WSP 1554: Drainage area.

GAGE.--Water recorder. Datum of gage is 230.84 ft above National Geodetic Vertical Datum of 1929. Prior to May 23, 1906, Jan. 1 to Oct. 5, 1909, Jan. 1, 1932, to Sept. 30, 1939, nonrecording gages at site 0.5 mi downstream, and Oct. 1, 1939, to Mar. 8, 1966, water-stage recorder, 0.3 mi downstream, all at present datum. May 23, 1906, to Dec. 31, 1908, and Oct. 6, 1909, to Dec. 31, 1931, nonrecording gages at Fraleys Ferry, 6.8 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 1-4. Records good, except those for period of estimated daily discharges, which are fair. Flow regulated by Lake Oconee since January 1979 and Sinclair Reservoir since November 1952. (See "Lakes and Reservoirs in Altamaha River Basin," stations 02220450 and 02225000.)

AVERAGE DISCHARGE.--87 years, 3,276 ft³/s, 15.08 in/yr, adjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 122,000 ft³/s, Feb. 25, 1961, gage height, 42.9 ft, from rating curve extended above 77,000 ft³/s; minimum daily discharge, 90 ft³/s for several days in August and September 1925 and Aug. 3 1955.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 46.7 ft in 1886 at site 0.5 mi downstream at present datum, from information furnished by Georgia Department of Transportation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 83,100 ft³/s, Oct. 2, gage height, 40.18 ft (from floodmark); minimum daily discharge, 351 ft³/s, July 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	49700	1160	1530	7820	7800	4640	2520	3560	2360	417	421	999		
2	71000	1350	649	6070	7340	4910	4600	2860	1130	434	803	1010		
3	42700	2360	672	5200	4030	6820	4660	2370	782	449	448	960		
4	26600	1190	1730	4250	3490	5760	1980	2440	2050	448	444	1200		
5	11400	702	654	4800	3090	4850	4810	1670	2060	444	446	959		
6	7870	4390	665	4560	3040	4720	2860	873	2180	453	2380	466		
7	7030	4190	3900	5500	4630	5260	1660	2470	1380	450	933	773		
8	6710	4170	5330	8400	4790	5890	650	1840	1430	483	1300	1040		
9	4400	4180	16300	7940	4470	6460	4430	3770	1020	466	1230	450		
10	3970	4390	8590	7870	6030	4760	4100	4590	588	452	1270	451		
11	1500	1960	1060	7850	7810	5140	4550	3900	559	454	451	468		
12	2370	1460	712	6990	10800	6610	5540	1110	578	401	460	1430		
13	2390	3060	882	5220	8650	6660	4900	576	586	369	930	951		
14	1810	2440	1910	1870	7800	4540	2920	2280	578	375	1170	457		
15	1410	3350	4550	3040	7780	4470	592	2250	845	384	997	459		
16	2240	4690	4470	3100	8050	5930	3930	1980	581	393	956	973		
17	1700	4450	2990	2650	19800	34000	3210	2170	590	368	942	1240		
18	1880	1720	1850	4340	24700	67800	4310	1850	1150	370	452	1240		
19	1580	1840	4600	3920	31800	44500	2790	600	1280	355	460	1340		
20	1960	4380	2310	1370	35000	22800	1610	570	587	351	470	1270		
21	680	5930	1750	5020	26800	11700	600	1420	575	2470	465	948		
22	665	5040	4120	7790	12500	7950	1090	1900	584	2500	451	933		
23	1910	4820	3530	7780	9610	7880	3280	1870	568	3830	456	447		
24	1690	4170	1340	7570	7900	7110	2910	2080	552	3310	1240	448		
25	1620	676	3300	7820	7850	6730	2860	1130	550	2960	453	453		
26	1960	646	2110	7850	7830	6720	2630	578	541	2210	470	450		
27	1150	3990	2220	7820	7800	6730	2450	579	483	393	1000	445		
28	652	1510	2670	16600	7520	6800	1930	1410	428	389	988	446		
29	664	1510	1670	8440	---	7710	2950	3570	436	391	459	443		
30	923	1440	2200	7860	---	7280	2790	1920	420	619	469	451		
31	1220	---	4170	7840	---	6230	---	1860	---	790	463	---		
TOTAL	263354	87164	94434	195150	298710	339360	90112	62046	27451	28178	23877	23600		
MEAN	8495	2905	3046	6295	10670	10950	3004	2001	915	909	770	787		
MAX	71000	5930	16300	16600	35000	67800	5540	4590	2360	3830	2380	1430		
MIN	652	646	649	1370	3040	4470	592	570	420	351	421	443		
MEAN†	8051	1944	4078	6251	10486	10897	3084	2045	885	933	809	688		
CFSM†	2.73	.66	1.38	2.12	3.55	3.69	1.05	.69	.30	.32	.27	.23		
IN†	3.15	.74	1.59	2.44	3.70	4.26	1.17	.80	.33	.36	.32	.26		
CAL YR 1989	TOTAL	1077702	MEAN	2953	MAX	71000	MIN	520	MEAN†	2936	CFSM†	1.00	IN†	13.51
WTR YR 1990	TOTAL	1533436	MEAN	4201	MAX	71000	MIN	351	MEAN†	4155	CFSM†	1.41	IN†	19.12

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE OCONEE AND SINCLAIR RESERVOIR.

ALTAMAHA RIVER BASIN

02223000 OCONEE RIVER AT MILLEDGEVILLE, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 14...	1130	6420	62	57	7.0	6.8	18.5	21.0	8.7	93
JAN 09...	1230	7940	62	61	7.0	7.0	10.0	15.0	10.3	92
MAR 13...	1100	6640	57	56	6.6	6.9	14.0	23.0	8.5	82
MAY 08...	0920	632	52	52	6.8	6.8	19.5	23.0	7.2	79
JUL 17...	1110	368	64	60	7.0	7.0	29.5	28.0	7.5	98
AUG 13...	1145	463	63	61	7.3	7.2	29.0	35.0	7.3	95
SEP 10...	1050	438	68	67	7.2	7.2	29.5	28.5	6.2	82

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
NOV 14...	25	1.3	80	14	0.340	0.100	0.150	5.2	--	--
JAN 09...	34	0.3	20	15	0.430	0.040	0.060	4.6	2200	68
MAR 13...	44	1.1	<20	13	0.490	0.100	0.080	3.8	2600	50
MAY 08...	40	1.2	80	12	0.380	0.040	0.100	2.3	2200	51
JUL 17...	8.0	0.1	--	18	0.170	0.260	<0.030	3.0	350	160
AUG 13...	2.0	0.4	20	18	0.100	<0.030	0.030	3.1	210	46
SEP 10...	2.0	0.6	110	18	0.100	<0.030	0.030	3.2	130	44

ALTAMAHA RIVER BASIN

02223040 OCONEE RIVER NEAR HARDWICK, GA.

LOCATION.--Lat 33°01'45", long 83°11'24", Baldwin County, Hydrologic Unit 03070102, at public boat ramp on right bank 1 mi downstream from Camp Creek, and 3 mi southeast of Hardwick.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Flow regulated by Lake Oconee and Sinclair Reservoir (see "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500). Discharge obtained from gaging staion 02223000, Oconee River at Milledgeville, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 11...	1320	669	70	70	6.7	6.7	21.5	27.0	5.9	67
NOV 14...	1045	719	66	62	7.0	6.7	18.5	21.0	8.8	94
DEC 13...	1020	806	63	62	6.9	6.9	10.0	2.5	10.0	89
JAN 09...	1200	7980	63	--	7.1	7.2	10.0	15.0	10.9	97
FEB 13...	1110	8630	65	65	6.8	7.1	12.5	16.0	10.2	95
MAR 13...	1140	6640	58	56	6.9	7.0	14.5	25.0	8.4	82
APR 11...	1040	675	59	60	6.9	6.8	16.0	15.5	9.3	96
MAY 08...	0850	646	55	56	6.8	6.7	19.0	24.0	7.3	79
JUN 12...	0920	586	63	63	6.7	6.9	25.0	25.0	8.6	105
JUL 17...	1140	368	70	69	7.2	7.2	30.0	30.0	7.5	99
AUG 13...	0955	463	72	69	7.2	7.3	29.5	29.0	7.6	100
SEP 10...	1120	446	74	71	7.3	7.4	30.0	30.5	6.8	91

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CaCO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 11...	26	1.0	50	20	0.390	0.050	0.190	--
NOV 14...	22	1.2	30	16	0.370	0.070	0.140	4.8
DEC 13...	68	2.2	3300	15	0.340	<0.030	0.040	6.6
JAN 09...	24	4.5	50	15	0.430	0.050	0.070	5.4
FEB 13...	15	0.3	20	16	0.490	0.050	0.110	--
MAR 13...	44	1.2	20	14	0.500	0.060	<0.020	4.6
APR 11...	56	0.9	1300	13	0.520	0.050	0.150	5.3
MAY 08...	40	0.7	2500	11	0.430	0.060	0.160	2.5
JUN 12...	21	0.6	330	13	0.440	0.030	0.060	4.2
JUL 17...	7.0	0.9	--	20	0.250	0.050	0.070	4.8
AUG 13...	3.0	1.0	130	17	0.150	0.030	0.060	3.5
SEP 10...	3.0	0.8	80	20	0.150	0.050	0.060	3.5

ALTAMAHA RIVER BASIN

02223250 OCONEE RIVER NEAR TOOMSBORO, GA.

LOCATION.--Lat 32°46'54", long 82°57'30", Wilkinson-Washington County line, Hydrologic Unit 03070102, at Balls Ferry Bridge on State Highway 57, 3.2 mi downstream from Commissioner Creek, 7.5 mi east of Toombsboro, and at mile 96.2.

DRAINAGE AREA.--3,770 mi².

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Flow regulated by Lake Oconee and Sinclair Reservoir (see "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500).

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC 06...	1405	1570	104	100	6.8	6.8	10.0	24.5	5.5	49
MAR 07...	1355	8200	64	64	7.3	6.9	14.0	17.5	6.8	65
JUN 06...	1255	2150	67	68	7.2	7.2	20.5	31.0	5.5	61
SEP 18...	1215	970	99	101	7.3	7.2	26.5	32.0	6.6	82

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC 06...	70	31	2.6	<20	17	0.480	0.120	0.080	3.9
MAR 07...	--	54	0.6	--	12	0.510	0.080	0.160	4.1
JUN 06...	30	36	0.5	--	14	0.370	<0.030	0.070	3.5
SEP 18...	5	10	0.4	50	17	0.240	0.120	0.110	2.6

ALTAMAHA RIVER BASIN

02223500 OCONEE RIVER AT DUBLIN, GA.

LOCATION.--Lat 32°32'40", long 82°53'41", Laurens County, Hydrologic Unit 03070102, near left bank on downstream end of pier of bridge on U.S. Highway 80 at Dublin, and at mile 74.3.

DRAINAGE AREA.--4,400 mi², approximately.

PERIOD OF RECORD.--January 1894 to September 1897 (gage heights only), October 1897 to current year. Gage-height records collected at same site since 1893 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area. WSP 1504: 1898-1903, 1905-6, 1908-9, 1912, 1913(M), 1925(M).

GAGE.--Water-stage recorder. Datum of gage is 149.08 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 14, 1932, nonrecording gage and Apr. 15, 1932, to June 17, 1934, water-stage recorder at site 420 ft downstream at datum 3.0 ft higher, Oct. 1, 1933, to July 17, 1934 corrected to present datum. July 18, 1934, to Apr. 14, 1936, water-stage recorder, April 15, 1936, to Oct. 12, 1938, nonrecording gage, and Oct. 13, 1938, to Jan. 20, 1953, water-stage recorder at site 80 ft upstream at present datum.

REMARKS.--Estimated daily discharges: Dec. 28-31, June 11, 12, and Sept. 18. Records good, except for estimated daily discharges, which are fair. Flow regulated by Lake Oconee and Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500.) Records of chemical analyses for the water years 1968-73 and continuous water temperature record collected October 1963 to September 1964 and June 1979 to September 1983 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--93 years (water years 1898-1990), 4,898 ft³/s, 15.12 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97,700 ft³/s, Apr. 12, 13, 1936, gage height, 32.97 ft; minimum, 333 ft³/s, Sept. 12, 1951, gage height, 0.48 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1893, that of Apr. 12, 13, 1936.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 19,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 5	2100	46,100	27.12	Mar. 21	2000	*46,200	*27.14
Feb. 23	2200	30,000	23.35				

Minimum daily discharge, 508 ft³/s, July 3.

ALTAMAHA RIVER BASIN

02223500 OCONEE RIVER AT DUBLIN, GA.—Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	5940	1270	2700	4070	10700	10600	8450	3460	2090	546	724	622		
2	9280	1620	2300	4060	10600	8890	6450	3710	2100	522	887	606		
3	12000	1570	1850	4100	10100	7040	5200	3750	2200	508	697	924		
4	28300	1670	1370	7760	8600	7680	5530	2770	1470	513	894	1020		
5	44400	2420	1480	7760	5960	8230	4780	2730	1280	527	726	1010		
6	43700	1500	1840	6650	5090	7890	3940	2670	1930	518	670	1150		
7	36900	2190	1370	7630	4340	7090	4590	2140	2040	516	816	1010		
8	29100	4070	3000	9160	4640	6710	3490	1870	2010	519	1740	696		
9	22200	4530	7140	10300	5540	6640	2550	2440	1550	529	1260	805		
10	16200	4590	9550	11100	5260	7210	2980	3100	1460	548	1420	1020		
11	9970	4690	11200	11600	6290	6910	4480	4040	1200	588	1440	689		
12	4940	3850	12400	11800	7610	6360	4860	4170	1000	553	1390	608		
13	3000	2450	12200	11400	8350	6800	5380	3380	819	553	829	617		
14	3260	2590	8200	10200	9010	7120	5800	1880	790	552	705	1170		
15	3070	3380	5540	7400	9420	6290	4970	1590	773	515	970	1060		
16	2790	3350	5720	4440	9440	5450	2980	2350	765	532	1160	748		
17	2720	4510	6650	4630	9580	6290	2690	2260	896	534	1090	645		
18	2870	5010	6060	4270	9900	8400	3550	2190	778	568	1060	1100		
19	2700	4170	4810	4490	10700	10600	4060	2240	765	697	1030	1210		
20	2660	2430	5370	5110	12100	27500	3770	1930	1070	677	697	1250		
21	2700	3260	6570	4320	16600	44600	2840	1160	1170	668	614	1320		
22	2250	5730	4330	5320	24900	43300	2130	1070	802	705	600	1270		
23	1500	5860	5060	7890	29400	35500	1470	1570	734	1950	588	1060		
24	1400	5870	5560	8890	28600	27500	2240	1890	712	2740	593	982		
25	2380	5540	4350	9370	24500	20600	3040	1920	689	2820	611	673		
26	2110	3930	3420	9590	19400	15500	3030	1960	672	2990	1090	577		
27	2100	1910	3990	9660	15400	11600	3010	1390	667	2650	713	555		
28	2250	2570	3600	9590	12500	8680	2830	1060	655	1730	622	542		
29	1440	3390	3400	9520	---	7870	3170	1250	607	848	941	533		
30	1150	2530	3600	9890	---	8010	3200	2180	557	671	1020	530		
31	1090	---	2700	10400	---	8620	---	2810	---	612	704	---		
TOTAL	306370	102450	157330	242370	334530	401480	117460	72930	34251	29399	28301	26002		
MEAN	9883	3415	5075	7818	11950	12950	3915	2353	1142	948	913	867		
MAX	44400	5870	12400	11800	29400	44600	8450	4170	2200	2990	1740	1320		
MIN	1090	1270	1370	4060	4340	5450	1470	1060	557	508	588	530		
CAL YR 1989	TOTAL	1453259	MEAN	3982	MAX	44400	MIN	671	MEAN†	3970	CFSM†	.90	IN†	12.25
WTR YR 1990	TOTAL	1852873	MEAN	5076	MAX	44600	MIN	508	MEAN†	5025	CFSM†	1.14	IN†	15.51

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE OCONEE AND SINCLAIR RESERVOIR.

ALTAMAHA RIVER BASIN

02223600 OCONEE RIVER AT I-16, NEAR DUBLIN, GA.

LOCATION.--Lat 32°29'05", long 82°51'45", Laurens County, Hydrologic Unit 03070102, at Interstate Highway 16, 4.0 mi upstream from Pughes Creek, 4.5 mi southeast of Dublin, and at mile 69.9.

DRAINAGE AREA.--4,400 mi², approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Flow regulated by Lake Oconee and Sinclair Reservoir (see "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500). Discharge obtained from gaging station 02223500, Oconee River at Dublin, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 04...	1235	29300	69	66	6.8	6.7	21.5	27.5	5.6	64
NOV 06...	1405	1400	103	104	7.0	6.9	16.0	29.5	8.9	91
DEC 06...	1525	1780	102	101	7.0	6.9	9.5	21.5	5.4	48
JAN 10...	1505	11200	63	65	6.8	6.9	10.5	20.5	6.8	61
FEB 14...	1350	9080	71	73	7.1	6.8	13.0	25.0	6.3	60
MAR 07...	1545	6680	75	77	7.1	6.8	14.0	15.5	6.2	59
APR 04...	1205	5380	70	70	7.0	7.0	16.5	21.5	5.8	60
MAY 09...	1355	2230	80	81	7.0	7.0	19.5	23.0	5.7	62
JUN 06...	1425	1760	81	80	7.3	7.2	22.0	32.0	4.9	56
JUL 17...	1310	528	180	183	7.1	7.1	29.5	34.0	6.3	82
AUG 08...	1140	1800	77	77	7.2	7.2	29.0	33.0	6.2	80
SEP 18...	0950	--	152	153	7.2	7.3	25.0	29.0	6.3	76

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 04...	--	62	32	1.2	490	17	69
NOV 06...	60	24	28	1.3	80	17	7
DEC 06...	65	32	<5	1.8	170	18	19
JAN 10...	110	52	7	0.8	790	12	40
FEB 14...	90	38	13	1.0	330	17	51
MAR 07...	--	40	19	0.9	--	14	32
APR 04...	70	58	30	0.9	70	16	41
MAY 09...	110	58	11	0.7	310	13	33
JUN 06...	40	40	23	0.5	80	17	37
JUL 17...	20	8.0	--	1.9	110	15	3
AUG 08...	40	19	--	1.0	490	17	23
SEP 18...	5	9.0	--	1.1	50	21	13

ALTAMAHA RIVER BASIN

02223600 OCONEE RIVER AT I-16, NEAR DUBLIN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 04...	0.150	<0.030	--	0.40	0.55	0.130	--
NOV 06...	0.440	0.110	0.49	0.60	1.0	0.130	4.2
DEC 06...	0.480	0.080	0.11	0.19	0.67	0.070	5.2
JAN 10...	0.310	0.160	0.14	0.30	0.61	0.100	7.8
FEB 14...	0.450	<0.030	--	<0.10	--	0.200	3.7
MAR 07...	0.410	0.110	0.09	0.20	0.61	0.160	7.0
APR 04...	0.440	0.080	0.34	0.42	0.86	0.180	6.7
MAY 09...	0.510	0.040	0.36	0.40	0.91	0.140	3.1
JUN 06...	0.450	<0.030	--	0.30	0.75	0.090	4.0
JUL 17...	0.610	0.060	--	--	--	0.090	4.2
AUG 08...	0.260	0.050	--	--	--	<0.020	5.0
SEP 18...	0.540	0.150	--	--	--	0.110	3.1

ALTAMAHA RIVER BASIN

02224000 ROCKY CREEK NEAR DUDLEY, GA.

LOCATION.--Lat 32°29'38", long 83°08'49", Laurens County, Hydrologic Unit 03070102, on downstream side of highway bridge, 3.2 mi upstream from Buckhorn Branch, and 5 mi southwest of Dudley.

DRAINAGE AREA.--62.9 mi².

PERIOD OF RECORD.--November 1970 to current year. Water-discharge records for water years 1952-76 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

				DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	
		MAR 27...	1000	35	62	74	7.2	6.9	15.0	8.7	86	
		JUL 09...	0915	1.6	135	143	7.1	8.0	25.0	3.4	41	
DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L)	
MAR 27...	65	6.3	27	6	8.5	1.4	3.3	20	0.3	1.2	21	
JUL 09...	12	2.2	47	0	16	1.7	3.2	12	0.2	1.5	57	
DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SOLIDS, SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	GEN, AMMONIA DIS-SOLVED (MG/L AS N)
MAR 27...	1.2	7.4	0.10	6.2	56	--	--	--	0.400	0.400	0.050	0.050
JUL 09...	1.2	7.1	0.10	7.9	80	--	--	--	0.400	0.500	0.060	0.060
DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN DIS-SOLVED (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)
MAR 27...	0.25	1.2	0.30	1.2	0.70	1.6	0.060	0.120	7.1	50	1	1
JUL 09...	0.44	0.34	0.50	0.40	0.90	0.90	0.090	0.030	5.9	30	<1	1
DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, DIS-SOLVED (UG/L AS ZN)	
MAR 27...	<1.0	<5	<10	1200	2	1	53	<0.10	<0.1	<1	7	
JUL 09...	<1.0	<1	17	300	1	1	350	<0.10	<0.1	<1	4	

ALTAMAHA RIVER BASIN

02224500 OCONEE RIVER NEAR MOUNT VERNON, GA.

LOCATION.--Lat 32°11'28, long 82°38'00", Montgomery County, Hydrologic Unit 03070102, at bridge on U.S. Highway 280, 0.2 mi upstream from Flat Creek, and 2.4 mi northwest of Mount Vernon.

DRAINAGE AREA.--5,110 mi².

PERIOD OF RECORD.--September 1990.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey. Flow regulated by Lake Oconee and Sinclair Reservoir (See "Lakes and reservoirs in Altamaha River Basin" stations 02220450 and 02222500, respectively).

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
SEP 19...	0525	790	154	154	7.5	7.3	25.0	13.0	7.1	86

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
SEP 19...	40	11	1.1	--	31	0.460	<0.030	0.090	2.7

ALTAMAHA RIVER BASIN

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.

LOCATION.--Lat 31°56'20", long 82°21'13", Appling-Toombs County line, Hydrologic Unit 03070106, on right bank 400 ft downstream from bridge on U.S. Highway 1, 2.2 mi upstream from Bay Creek, 8 mi downstream from Bullards Creek, and 12 mi north of Baxley.
DRAINAGE AREA.--11,600 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1949 to June 1951, October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 61.51 ft above National Geodetic Vertical Datum of 1929. Aug. 13, 1949, to June 30, 1951, nonrecording gage at site 400 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Mar. 27, 28. Records good.

AVERAGE DISCHARGE.--21 years (water years 1950, 1971-90), 11,050 ft³/s, 12.94 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97,500 ft³/s, Mar. 12, 1971, gage height, 22.7 ft; minimum daily discharge, 1,620 ft³/s, July 21, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 10, 1948, reached a stage of 25.1 ft, from floodmark, discharge, 130,000 ft³/s.

Flood of January 1925 reached a stage of 30.0 ft, from information furnished by Georgia Department of Transportation.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 25,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 11	2400	41,400	16.72	Mar. 1	2000	44,700	17.44
Jan. 11	1700	38,600	16.39	Mar. 28	2300	*65,500	*19.35
Feb. 7	1800	26,400	14.32				

Minimum daily discharge, 1,840 ft³/s, July 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7370	4170	6920	12900	22600	47400	46300	7540	4530	2360	3440	3110
2	8050	3940	6480	13500	22500	47400	38400	7550	5340	2330	3090	2870
3	8600	3820	6170	14600	22500	45800	31000	7700	5500	2250	2970	2580
4	9440	3830	6040	15700	23000	42500	26800	7900	5700	2160	2670	2470
5	10500	3900	5840	16600	23800	37400	23100	8010	5930	2070	2470	2520
6	11500	4030	5460	17700	25000	31400	19700	7490	5510	1990	2420	2890
7	13000	4420	5230	20000	26100	27200	17300	7080	4880	1950	2470	3170
8	16100	4430	5550	26000	26200	23900	15500	6850	4820	1920	2480	3230
9	23100	4630	6110	30500	24800	21200	14800	6390	4930	1910	2510	3110
10	33400	5720	7570	35400	22900	19300	13900	6070	4860	1870	2990	3020
11	40300	6340	9870	38300	21700	17900	12600	6210	4550	1840	3190	3090
12	40900	6670	11300	37600	20400	17100	11800	6640	4340	1850	3240	3090
13	39200	6960	12700	35800	19200	16800	12100	7490	4160	1860	3220	2930
14	37400	6810	14000	34300	18400	16400	12300	7870	3880	1940	3100	2710
15	33400	6130	15300	32900	18100	16000	12400	7590	3580	1920	2980	2580
16	27300	5890	16600	31300	18200	15700	12600	6630	3360	1920	3100	2720
17	23200	6150	17400	29700	18900	15600	12300	6170	3200	1900	3260	2930
18	20300	6120	16900	28200	19900	15400	10900	6490	3040	1950	3240	2860
19	17500	6550	16400	25600	21200	15600	9750	6490	2990	2120	3070	2770
20	12700	7060	17600	22600	22400	16300	9910	6210	2940	2280	2860	2870
21	9040	6950	18700	20800	23700	17100	10200	5960	2820	2340	2750	3200
22	7340	6230	19300	20100	25100	18000	10200	5530	2850	2460	2590	3540
23	6770	6560	19500	19400	26500	19700	9430	4870	2970	2570	2450	3770
24	6270	8020	19000	18700	28100	25300	8460	4500	2860	2630	2340	3810
25	5430	8660	17800	18600	30600	39100	7510	4580	2730	3120	2250	3500
26	4880	8750	17000	19200	36200	50400	7290	4900	2670	4170	2180	3160
27	4930	8740	15900	20200	42600	59000	7670	5250	2600	5000	2160	2910
28	4900	8020	14400	21200	46200	65000	7640	5480	2510	5430	2340	2720
29	4770	6650	13700	21900	---	64500	7550	5110	2450	5460	2490	2630
30	4860	6430	13000	22300	---	60000	7490	4490	2410	4980	2530	2510
31	4570	---	12700	22500	---	53700	---	4200	---	4110	2880	---
TOTAL	497020	182580	390440	744100	696800	978100	446900	195240	114910	82660	85730	89270
MEAN	16030	6086	12590	24000	24890	31550	14900	6298	3830	2666	2765	2976
MAX	40900	8750	19500	38300	46200	65000	46300	8010	5930	5460	3440	3810
MIN	4570	3820	5230	12900	18100	15400	7290	4200	2410	1840	2160	2470
CFSM	1.38	.53	1.09	2.07	2.15	2.72	1.28	.54	.33	.23	.24	.26
IN.	1.59	.59	1.25	2.39	2.23	3.14	1.43	.63	.37	.27	.27	.29

CAL YR 1989	TOTAL	3372480	MEAN	9240	MAX	40900	MIN	2750	CFSM	.80	IN	10.82
WTR YR 1990	TOTAL	4503750	MEAN	12340	MAX	65000	MIN	1840	CFSM	1.06	IN	14.44

ALTAMAHA RIVER BASIN

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—November 1970 to current year.

PERIOD OF DAILY RECORD.—

CHLORIDE: May 1970 to August 1975.

SPECIFIC CONDUCTANCE: June 1971 to September 1976.

pH: October 1971 to September 1976.

WATER TEMPERATURES: December 1970 to September 1976.

DISSOLVED OXYGEN: May 1971 to September 1976.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD

CHLORIDE: Maximum recorded, 19 mg/L Oct. 10, 1974; minimum recorded, 0.0 mg/L Dec. 26-28, 1972, June 2, 3, 1973.

SPECIFIC CONDUCTANCE: Maximum recorded, 157 microsiemens Oct. 9, 1972; minimum recorded, 24 microsiemens Feb. 28, March 1, 1974.

pH: Maximum recorded, 8.0 units May 14, 1972; minimum recorded, 5.1 units Dec. 28, 1971.

WATER TEMPERATURES: Maximum, 32.0°C July 24, Aug. 5, 1972; minimum, 5.5°C Jan. 11, 19, 20, 1976.

DISSOLVED OXYGEN: Maximum recorded, 11.7 mg/L Jan. 17, 18, 1973; minimum recorded, 4.7 mg/L Aug. 21, 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 05...	0635	10200	86	82	7.2	7.1	23.0	18.5	6.8	79
NOV 08...	0740	4470	138	141	7.4	7.1	17.0	23.5	7.9	82
DEC 07...	0905	5220	115	111	7.5	7.1	9.5	16.0	7.2	63
JAN 11...	0900	36800	51	52	6.6	6.2	11.0	8.5	6.8	61
FEB 15...	0715	18100	76	77	7.1	6.8	14.0	13.0	6.7	65
MAR 08...	0835	24400	72	73	7.1	6.8	14.5	9.0	6.2	60
APR 05...	0630	24100	73	73	7.2	7.1	15.0	11.5	6.7	67
MAY 10...	0730	6030	106	93	--	7.3	20.0	25.0	5.4	60
JUN 07...	0730	4940	100	99	7.3	7.2	25.0	29.0	4.9	59
JUL 18...	0725	1930	158	159	7.9	7.8	28.0	25.0	6.0	76
AUG 09...	0545	2500	143	145	7.6	7.6	28.5	25.5	5.7	74
SEP 19...	0750	2760	141	143	7.5	7.6	26.0	22.0	5.9	72

ALTAMAHA RIVER BASIN

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 05...	70	60	--	170	20	0.340	<0.030	0.110	--
NOV 08...	20	15	1.8	800	33	0.560	0.060	0.190	5.4
DEC 07...	40	37	2.3	60	32	0.520	0.050	0.120	3.2
JAN 11...	120	33	1.9	170	8	0.100	<0.030	0.080	13
FEB 15...	95	23	0.5	1100	18	0.330	0.040	0.240	5.1
MAR 08...	--	30	0.7	20	17	0.350	0.090	0.220	5.4
APR 05...	110	32	1.5	20	20	0.320	0.390	0.080	8.4
MAY 10...	45	27	--	--	30	0.570	0.050	0.110	2.5
JUN 07...	50	26	--	--	27	0.480	0.170	0.170	4.2
JUL 18...	10	7.0	1.8	--	48	0.200	0.040	0.070	3.8
AUG 09...	10	18	1.4	<20	36	0.440	<0.030	0.110	4.5
SEP 19...	60	11	0.7	--	36	0.530	<0.030	0.080	2.0

ALTAMAHA RIVER BASIN

02225500 OHOOPEE RIVER NEAR REIDSVILLE, GA.

LOCATION.--Lat 32°04'42", long 82°10'39", Tattnall County, Hydrologic Unit 03070107, on downstream side of pier near center span of bridge on State Highway 56, 0.5 mi downstream from Brazells Creek, 1.5 mi downstream from Rocky Creek, 3.5 mi west of Reidsville, 6 mi downstream from Pendleton Creek, and 14 mi upstream from mouth.

DRAINAGE AREA.--1,110 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1903 to December 1907, April 1937 to current year. Monthly discharge only for April to June 1903, April to May 1937, published in WSP 1304.

REVISED RECORDS.--WSP 822: Drainage area. WSP 892: 1938(M). WSP 1504: 1905. WDR GA-84-1: 1983.

GAGE.--Water-stage recorder. Datum of gage is 73.8 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Prior to Feb. 15, 1941, nonrecording gage at same site, at different datum June 13, 1903, to Dec. 31, 1907, and at same datum May 25, 1937, to Feb. 15, 1941.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--57 years (water years, 1904-07, 1938-90), 977 ft³/s, 11.95 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,400 ft³/s, Mar. 6, 1966, gage height, 23.34 ft; minimum daily discharge, 19 ft³/s, Sept. 12, 13, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 28.4 ft in January 1925, from information furnished by Georgia Department of Transportation; discharge, 47,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 9	0700	*8,830	*16.95	No other peak greater than base discharge.			

Minimum daily discharge, 20 ft³/s, Sept. 25-28.

ALTAMAHA RIVER BASIN

02225500 OHOOPEE RIVER NEAR REIDSVILLE, GA.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1380	292	619	1640	2160	1840	931	220	251	39	35	35
2	1160	263	567	1880	2030	1660	1080	287	199	39	40	33
3	1010	246	512	2040	1890	1520	1300	372	166	39	65	30
4	934	230	462	2110	1750	1400	1570	373	145	38	55	29
5	943	216	423	2280	1650	1290	1730	296	128	38	46	28
6	1120	201	393	2690	1530	1210	1600	240	111	37	41	28
7	1550	194	378	3880	1410	1140	1330	205	99	37	38	27
8	2440	195	600	7460	1320	1080	1050	179	91	37	36	27
9	2910	227	1230	8540	1250	1020	870	165	86	37	43	26
10	2350	244	1580	7690	1260	980	762	162	81	37	48	26
11	1660	233	1670	7140	1570	942	687	152	114	37	71	25
12	1130	219	1640	6560	1720	909	633	147	119	39	64	25
13	855	229	1810	5770	1630	871	584	142	106	46	50	25
14	707	250	2080	4880	1500	822	553	137	88	44	49	26
15	602	316	2390	4150	1390	784	526	133	77	44	47	26
16	525	442	2660	3560	1300	750	505	125	70	42	43	25
17	477	459	2760	3080	1410	751	493	118	65	40	39	25
18	765	483	2730	2710	1710	929	456	111	61	42	36	24
19	1850	491	2740	2440	2090	1060	405	105	57	42	34	24
20	1440	469	3000	2260	2360	1070	357	99	54	42	33	24
21	1070	438	3080	2160	2640	1080	318	94	52	40	32	23
22	827	430	2950	2240	2790	1080	286	92	49	39	32	23
23	734	484	2750	2250	2910	1080	258	98	47	38	35	22
24	674	620	2630	2220	3000	1070	236	122	45	37	39	21
25	615	734	2490	2210	2930	1020	218	136	43	37	51	20
26	573	715	2330	2320	2690	892	202	113	42	38	47	20
27	531	711	2160	2460	2370	743	187	100	41	37	41	20
28	475	699	1960	2460	2070	634	176	114	40	35	37	20
29	420	685	1740	2360	---	564	186	137	40	34	35	21
30	369	658	1570	2350	---	530	185	258	40	33	36	22
31	327	---	1460	2300	---	727	---	294	---	32	36	---
TOTAL	32423	12073	55364	108090	54330	31448	19674	5326	2607	1196	1334	750
MEAN	1046	402	1786	3487	1940	1014	656	172	86.9	38.6	43.0	25.0
MAX	2910	734	3080	8540	3000	1840	1730	373	251	46	71	35
MIN	327	194	378	1640	1250	530	176	92	40	32	32	20
CFSM	.94	.36	1.61	3.14	1.75	.91	.59	.16	.08	.04	.04	.02
IN.	1.09	.40	1.86	3.62	1.82	1.05	.66	.18	.09	.04	.04	.03
CAL YR 1989	TOTAL	322341	MEAN	883	MAX	4970	MIN	87	CFSM	.80	IN	10.80
WTR YR 1990	TOTAL	324615	MEAN	889	MAX	8540	MIN	20	CFSM	.80	IN	10.88

ALTAMAHA RIVER BASIN

02225500 OHOOPEE RIVER NEAR REIDSVILLE, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to June 1979, September 1990.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
SEP 20...	0655	24	37	45	7.0	6.6	24.5	20.0	5.1	61

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
SEP 20...	--	1.0	0.3	<20	8	0.150	<0.030	0.130	3.5

ALTAMAHA RIVER BASIN

02225990 ALTAMAHA RIVER NEAR JESUP, GA.

LOCATION.--Lat 31°39'59", long 81°50'19", Wayne-Long County line, Hydrologic Unit 03070106, at bridge on U.S. Highways 25, 82, and 301, 5 mi northeast of Jesup.

DRAINAGE AREA.--13,600 mi², approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Discharge obtained from gaging station 02226000, Altamaha River at Doctortown, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 25...	1200	9180	93	98	7.1	7.1	17.0	18.5	8.0	82
NOV 14...	1045	6870	99	96	7.5	7.1	17.0	25.0	8.1	83
DEC 12...	1125	11200	91	89	7.2	6.8	10.0	15.0	6.9	61
JAN 23...	1230	28100	65	69	6.9	6.8	12.0	20.5	7.8	72
FEB 22...	1135	27600	66	66	7.0	6.7	15.0	25.5	6.1	60
MAR 28...	1330	47600	56	57	7.0	6.7	16.5	21.5	7.5	76
APR 24...	1045	10000	85	92	7.3	7.2	20.5	27.0	5.7	63
MAY 15...	1240	7240	92	95	7.1	7.5	25.0	33.0	7.4	88
JUN 28...	1020	2810	137	141	7.7	7.6	28.0	34.0	4.7	60
JUL 10...	1215	2080	140	148	8.2	7.9	32.0	35.5	7.8	106
AUG 21...	1130	3080	125	120	7.6	7.5	31.0	33.0	6.8	91
SEP 12...	0915	2890	120	122	7.5	7.5	29.0	30.0	6.4	83

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT 25...	40	19	1.0	40	25	11	0.300	<0.030	0.070	5.9	0.80
NOV 14...	70	35	1.4	20	26	30	0.470	0.050	0.150	4.9	0.60
DEC 12...	90	28	1.4	790	19	26	0.320	<0.030	0.060	11	1.0
JAN 23...	40	20	1.2	70	15	5	0.200	0.030	0.030	5.6	0.80
FEB 22...	120	19	0.8	130	15	5	0.250	<0.030	0.080	6.0	1.3
MAR 28...	160	48	2.0	220	13	10	0.050	<0.030	0.140	6.2	1.0
APR 24...	110	32	0.2	20	25	16	1.06	0.040	0.480	4.8	0.60
MAY 15...	55	40	0.6	--	24	42	0.320	0.070	0.110	18	0.70
JUN 28...	30	9.0	0.4	20	39	12	0.290	0.040	0.050	2.5	<0.50
JUL 10...	30	8.0	0.9	--	43	15	0.030	<0.030	0.060	2.9	<0.50
AUG 21...	10	16	0.8	<20	25	15	0.430	<0.030	0.070	7.5	<0.50
SEP 12...	30	18	0.9	<20	28	22	0.420	<0.030	0.570	4.3	<0.50

ALTAMAHA RIVER BASIN

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.

LOCATION.--Lat 31°39'16", long 81°49'41", Wayne-Long County line, Hydrologic Unit 03070106, on right bank 60 ft downstream from Seaboard Coast Line Railroad bridge at Doctortown, 4.5 mi northeast of Jesup, and at mile 64.5.

DRAINAGE AREA.--13,600 mi², approximately.

PERIOD OF RECORD.--October 1931 to current year. Gage-heights collected at same site since 1925 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 24.48 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 5, 1934, nonrecording gage, and Sept. 5, 1934 to Sept. 30, 1975, water-stage recorder at same site at datum 4.0 ft higher.

REMARKS.--No estimated daily discharges. Records good. Records of chemical analyses for the water years 1967-77 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--59 years, 13,490 ft³/s, 13.47 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 178,000 ft³/s, Apr. 18, 1936, gage height, 16.03 ft, present datum; minimum discharge, 1,430 ft³/s, Oct. 27, 28, Nov. 1, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1800, 18.6 ft, present datum, Jan. 23, 1925, discharge, 300,000 ft³/s, from rating curve extended above 180,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 14	2300	44,200	12.01	Mar. 3	2100	50,900	12.40
Jan. 13	0200	52,200	12.47	Mar. 31	0600	*70,600	*13.36
Feb. 10	1800	31,300	11.09				

Minimum discharge, 2,030 ft³/s, July 11-15.

ALTAMAHA RIVER BASIN

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7500	5440	7490	17800	27500	45000	66800	7370	4580	2600	4510	2690
2	8330	5090	7470	17000	27800	48700	59700	7370	4630	2530	3980	2940
3	8950	4770	7310	16800	27800	50500	51400	7400	5140	2490	3690	2910
4	9470	4550	6930	17100	27700	50700	43700	7530	5440	2430	3410	2690
5	9990	4460	6680	17900	27500	49300	37500	7730	5560	2360	3100	2510
6	10600	4450	6470	19000	27500	46500	32700	7910	5710	2280	2890	2450
7	11300	4490	6150	20800	27900	42700	28700	7700	5580	2200	2780	2650
8	12200	4690	6070	23300	28700	38300	25000	7210	5130	2130	2740	2900
9	13300	4840	6770	27300	29700	34000	21800	6930	4900	2100	2760	3020
10	15300	4940	8070	37900	30600	30000	19200	6680	4940	2080	2740	2990
11	18700	5580	9390	48200	30800	26700	17300	6340	5050	2050	2950	2900
12	26800	6250	11300	51500	29400	23900	15900	6230	4780	2060	3230	2910
13	38200	6630	13000	52100	27900	21800	14300	6370	4560	2070	3320	2930
14	43300	6880	14300	51000	26500	20300	13200	6810	4390	2060	3360	2860
15	43600	6970	15500	48800	25000	19300	12900	7210	4190	2060	3290	2700
16	42400	6730	16900	46200	23600	18600	12800	7290	3940	2080	3180	2540
17	40100	6480	18200	43800	22900	18300	12800	6830	3690	2050	3210	2510
18	38500	6590	19900	41500	22600	18100	12800	6350	3500	2080	3290	2650
19	34900	6690	21700	39300	23100	17800	12500	6260	3350	2080	3330	2680
20	29800	6860	23000	37000	24400	17700	11600	6310	3240	2150	3240	2600
21	26100	7180	23600	34200	25900	17700	10700	6200	3180	2310	3070	2610
22	21900	7310	24300	31000	27700	18000	10400	6040	3090	2330	2960	2790
23	16600	7030	25600	28200	29500	18600	10300	5730	3050	2400	2840	3060
24	12000	6910	26500	26400	31100	19300	10000	5250	3090	2550	2680	3280
25	9300	7710	26600	25200	32800	20400	9170	4810	3050	2650	2580	3400
26	7730	8640	26100	24700	34700	23500	8250	4700	2940	2860	2460	3300
27	6670	9140	25000	24200	37000	32600	7500	4830	2860	3500	2390	3030
28	6190	9360	23600	24300	40500	46700	7410	5090	2800	4250	2340	2790
29	5970	9220	22100	25100	---	58800	7470	5330	2720	4780	2360	2590
30	5740	8340	20500	26100	---	67000	7410	5250	2640	5050	2490	2460
31	5640	---	18900	27000	---	70000	---	4850	---	4940	2520	---
TOTAL	587080	194220	495400	970700	798100	1030800	611210	197910	121720	81560	93690	84340
MEAN	18940	6474	15980	31310	28500	33250	20370	6384	4057	2631	3022	2811
MAX	43600	9360	26600	52100	40500	70000	66800	7910	5710	5050	4510	3400
MIN	5640	4450	6070	16800	22600	17700	7410	4700	2640	2050	2340	2450
CFSM	1.39	.48	1.18	2.30	2.10	2.45	1.50	.47	.30	.19	.22	.21
IN.	1.61	.53	1.36	2.66	2.18	2.82	1.67	.54	.33	.22	.26	.23
CAL YR 1989	TOTAL	3892090	MEAN	10660	MAX	43600	MIN	3180	CFSM	.78	IN	10.65
WTR YR 1990	TOTAL	5266730	MEAN	14430	MAX	70000	MIN	2050	CFSM	1.06	IN	14.41

ALTAMAHA RIVER BASIN

02226010 ALTAMAHA RIVER NEAR GARDI, GA.

LOCATION.--Lat 31°37'24", long 81°45'55", Wayne-Long County line, Hydrologic Unit 03070106, 6 mi northeast of Gardi, 7 mi downstream from Doctortown, and 9 mi upstream from Penholoway Creek.

DRAINAGE AREA.--13,600 mi², approximately.

PERIOD OF RECORD.--November 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Discharge obtained from gaging station 02226000, Altamaha River at Doctortown, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 25...	1130	9850	118	126	7.1	7.1	17.0	18.5	7.8	80
NOV 14...	1010	6800	136	131	7.5	7.1	17.0	23.0	7.8	80
DEC 12...	1020	10700	118	119	7.3	6.9	9.5	15.0	7.1	62
JAN 23...	1200	28800	73	76	6.9	6.8	12.5	20.5	7.9	73
FEB 22...	1030	27300	73	71	7.0	6.7	15.5	24.5	6.2	62
MAR 28...	1300	44000	59	61	6.9	6.8	17.0	21.5	7.7	79
APR 24...	1000	10200	92	97	7.2	7.1	20.5	27.0	5.5	61
MAY 15...	1215	7120	138	130	7.0	7.4	25.0	33.0	7.0	84
JUN 28...	0945	2830	223	240	7.6	7.3	28.0	34.0	4.8	61
JUL 10...	1145	2080	255	275	7.8	7.5	31.5	35.5	6.0	81
AUG 21...	1100	3120	214	214	7.4	7.3	31.0	33.0	5.5	73
SEP 12...	0940	2890	210	213	7.2	7.4	30.0	34.0	5.5	72

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CaCO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 25...	40	18	--	1.3	<20	27	11
NOV 14...	110	30	--	1.7	<20	28	24
DEC 12...	100	25	--	1.7	700	23	21
JAN 23...	45	21	--	1.2	100	16	6
FEB 22...	50	20	--	0.9	120	16	6
MAR 28...	160	46	--	2.0	330	14	15
APR 24...	120	31	--	0.1	<20	23	13
MAY 15...	95	36	--	0.9	--	30	30
JUN 28...	60	10	--	1.3	<20	46	11
JUL 10...	110	13	--	0.1	--	57	18
AUG 21...	60	19	25	1.1	20	36	15
SEP 12...	60	18	17	1.3	<20	36	17

ALTAMAHA RIVER BASIN

02226010 ALTAMAHA RIVER NEAR GARDI, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT 25...	0.270	<0.030	--	--	--	0.080	7.0	1.5
NOV 14...	0.450	0.050	--	--	--	0.150	7.1	1.2
DEC 12...	0.360	<0.030	--	--	--	0.070	11	1.3
JAN 23...	0.190	<0.030	--	--	--	0.060	5.6	1.0
FEB 22...	0.270	<0.030	--	--	--	0.110	6.7	1.3
MAR 28...	0.250	0.040	--	--	--	0.160	6.9	1.2
APR 24...	0.500	0.050	--	--	--	0.210	4.8	0.90
MAY 15...	0.550	<0.030	--	--	--	0.100	6.8	1.2
JUN 28...	0.290	0.140	--	--	--	0.080	6.6	1.3
JUL 10...	0.070	0.050	--	--	--	0.090	6.4	1.5
AUG 21...	0.430	0.050	0.25	0.30	0.73	0.090	9.5	1.8
SEP 12...	0.420	0.080	0.12	0.20	0.62	0.090	8.0	1.1

ALTAMAHA RIVER BASIN

02226100 PENHOLWAY CREEK NEAR JESUP, GA.

LOCATION.--Lat 31°34'00", long 81°50'18", Wayne County, Hydrologic Unit 03070106, on downstream side of bridge on U.S. Highway 341, 4 mi southeast of Jesup, and about 9.5 mi upstream from mouth.

DRAINAGE AREA.--210 mi², approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 19.09 ft above National Geodetic Vertical Datum of 1929. Since May 6, 1966, auxiliary water-stage recorder at highway bridge, 2.5 mi downstream.

REMARKS.--Estimated daily discharges: Dec. 12 to Jan 12. Records good, except those nonzero discharges less than 20 ft³/s and those for the period of estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--32 years, 187 ft³/s, 12.09 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,420 ft³/s, Sept. 30, 1979, gage height, 14.96 ft; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 20	0300	*3,500	*14.04	No other peak greater than base discharge.			

Minimum daily discharge, no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145	185	53	300	155	364	175	.00	.00	.00	.00	.06
2	166	154	56	280	169	315	207	.00	.00	.00	.15	.03
3	162	126	50	270	167	280	221	.00	.00	.00	.11	.00
4	145	105	40	280	165	248	191	.00	.00	.00	.22	.00
5	130	90	33	300	173	219	140	.00	.00	.00	.21	.00
6	106	75	28	340	180	192	96	.00	.00	.00	.20	.00
7	83	64	24	410	180	166	67	.00	.00	.00	.37	.00
8	66	56	66	580	162	144	48	.00	.00	.00	.59	.00
9	50	51	237	740	140	128	34	.00	.00	.00	.73	.00
10	40	45	324	880	150	115	25	.00	.00	.00	.83	.00
11	33	40	382	900	305	103	20	.00	.00	.00	.86	.00
12	27	35	430	820	397	91	15	.00	.00	.00	.93	.00
13	21	30	460	643	457	81	10	.00	.00	.00	.93	.00
14	17	25	500	507	471	72	7.7	.00	.00	.00	.34	.00
15	16	22	520	399	417	64	6.6	.00	.00	.00	.12	.00
16	14	20	500	322	331	57	3.8	.00	.00	.00	.7.8	.00
17	12	18	470	275	297	57	2.2	.00	.00	.00	.4.8	.00
18	388	16	450	242	308	82	1.2	.00	.00	.00	.2.8	.00
19	2880	15	440	213	441	83	.68	.00	.00	.00	.1.1	.00
20	3410	14	430	190	615	84	.42	.00	.00	.00	.30	.00
21	2800	13	440	170	729	80	.19	.00	.00	.00	.11	.00
22	2050	13	470	153	769	73	.07	.00	.00	.00	.07	.00
23	1500	22	500	137	754	60	.22	.00	.00	.00	.04	.00
24	1120	32	560	124	712	49	.01	.00	.00	.00	.01	.00
25	878	33	580	114	656	41	.00	.00	.00	.00	.05	.00
26	689	37	560	128	591	35	.00	.00	.00	.00	.64	.00
27	536	41	520	130	519	28	.00	.00	.00	.00	1.2	.00
28	419	39	500	129	444	21	.00	.00	.00	.00	.50	.00
29	338	39	440	126	—	16	.00	.00	.00	.00	.19	.00
30	274	45	370	121	—	41	.00	.00	.00	.00	.11	.00
31	224	—	320	143	—	151	—	.00	—	.00	.09	—
TOTAL	18739	1500	10753	10366	10854	3540	1272.09	.00	.00	.00	663.96	.09
MEAN	604	50.0	347	334	388	114	42.4	.000	.000	.000	21.4	.003
MAX	3410	185	580	900	769	364	221	.00	.00	.00	.93	.06
MIN	12	13	24	114	140	16	.00	.00	.00	.00	.00	.00
CFSM	2.88	.24	1.65	1.59	1.85	.54	.20	.000	.000	.000	.10	.000
IN.	3.32	.27	1.90	1.84	1.92	.63	.23	.00	.00	.00	.12	.00

CAL YR 1989	TOTAL	57310.50	MEAN	157	MAX	3410	MIN	.00	CFSM	.75	IN	10.15
WTR YR 1990	TOTAL	57688.14	MEAN	158	MAX	3410	MIN	.00	CFSM	.75	IN	10.22

ALTAMAHA RIVER BASIN

02226100 PENHOLLOWAY CREEK NEAR JESUP, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—January 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)		
	MAR 28...	1130	21	69	61	3.8	4.7	15.5	6.3	62		
	AUG 21...	0930	0.12	97	95	4.0	4.1	26.0	4.3	53		
DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L)	
MAR 28...	300	6.9	6	--	1.3	0.61	5.5	66	1	0.40	<1.0	
AUG 21...	330	1.6	14	--	3.1	1.4	6.7	50	0.8	1.0	<1.0	
DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	
MAR 28...	11	0.20	7.9	103	--	--	--	<0.100	0.100	0.230	0.230	
AUG 21...	11	<0.10	13	129	--	--	--	<0.100	<0.100	0.120	0.110	
DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN DIS-SOLVED (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)
MAR 28...	1.5	1.2	1.7	1.4	--	1.5	0.030	0.020	37	840	<1	<1
AUG 21...	1.2	1.5	1.3	1.6	--	--	0.030	0.030	58	1100	<1	<1
DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, DIS-SOLVED (UG/L AS ZN)	
MAR 28...	<1.0	<5	<10	1100	2	<1	11	<0.10	<0.1	<1	13	
AUG 21...	<1.0	2	3	2600	3	1	51	<0.10	<0.1	<1	32	

ALTAMAHA RIVER BASIN

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.
(National Stream-Quality Accounting Network station)
(Radiochemical program station)

LOCATION.--Lat 31°25'37", long 81°36'20", Glynn-McIntosh County line, Hydrologic Unit 03070106, at Altamaha Park, 3 mi northeast of Everett City, and 15 mi northwest of Brunswick.

DRAINAGE AREA.--14,000 mi², approximately.

PERIOD OF RECORD.--October 1969 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1969 to February 1986.

pH: November 1969 to February 1986.

WATER TEMPERATURE: October 1969 to February 1986.

DISSOLVED OXYGEN: April 1970 to February 1986.

REMARKS.--Laboratory analyses with the analyzing agency codes 80020 and 84213 are provided by the U.S. Geological Survey. Laboratory analyses with the analyzing agency code 81341 are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, Dissolved Oxygen, and Total Alkalinity are by the U.S. Geological Survey. Discharge is obtained from gaging station 02226000, Altamaha River at Doctortown, Ga. Prior to 1978, water-quality samples for the National Stream-Quality Accounting Network, the Radiochemical program, and the National pesticide water-monitoring program were collected at, and published for, the Altamaha River at Doctortown, Ga. (station number 02226000).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 321 microsiemens Oct. 7, 1981; minimum recorded, 32 microsiemens Apr. 9, 1973.

pH: Maximum recorded, 8.9 units Oct. 21, 22, 1971; minimum recorded, 5.3 units Dec. 12, 1976.

WATER TEMPERATURE: Maximum recorded, 33.5°C July 16-18, 1981; minimum recorded, 3.0°C Jan. 10, 11, 1970, Jan. 20, 21, 1977.

DISSOLVED OXYGEN: Maximum recorded, 12.5 mg/L Jan. 28, 1985; minimum recorded, 2.7 mg/L Oct. 8, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)
OCT							
25...	0830	80020	12500	85	88	6.9	6.8
25...	0840	81341	12500	85	85	6.9	6.8
NOV							
14...	0730	81341	6580	144	138	7.1	6.9
DEC							
12...	0815	81341	9050	118	121	7.3	6.8
JAN							
23...	0930	80020	31400	70	75	6.9	6.9
23...	0940	81341	31400	70	74	6.9	6.7
FEB							
22...	0800	81341	25700	81	85	7.1	6.7
MAR							
28...	0945	80020	31200	78	82	7.1	6.7
28...	0955	81341	31200	78	80	7.1	6.8
APR							
24...	0640	81341	10400	112	118	7.3	7.1
MAY							
15...	0930	80020	6770	145	154	7.5	7.8
15...	0940	81341	6770	145	156	7.5	7.3
JUN							
28...	0650	81341	2880	226	240	7.2	7.4
JUL							
10...	0845	80020	2100	245	259	7.8	7.7
10...	0855	81341	2100	245	263	7.9	7.5
AUG							
21...	0800	80020	3270	205	210	7.6	8.1
21...	0810	81341	3270	205	208	7.6	7.4
SEP							
12...	0645	81341	2910	215	220	7.4	7.4

ALTAMAHA RIVER BASIN

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	ALKA- LINITY WAT.DIS FET LAB CACO3 (MG/L)
OCT									
25...	80020	15.5	13.0	7.1	70	20	17	--	19
25...	81341	15.5	13.0	7.1	70	--	--	20	--
NOV									
14...	81341	17.0	15.0	7.3	75	--	--	31	--
DEC									
12...	81341	9.5	6.5	8.4	73	--	--	24	--
JAN									
23...	80020	12.0	14.0	8.5	78	16	13	--	15
23...	81341	12.0	14.0	8.5	78	--	--	14	--
FEB									
22...	81341	15.0	20.5	6.8	67	--	--	18	--
MAR									
28...	80020	17.0	20.0	7.3	74	24	19	--	20
28...	81341	17.0	20.0	7.3	74	--	--	18	--
APR									
24...	81341	20.0	16.0	5.2	57	--	--	26	--
MAY									
15...	80020	24.5	27.5	6.6	78	41	34	--	35
15...	81341	24.5	27.5	6.6	78	--	--	34	--
JUN									
28...	81341	27.0	24.5	5.1	64	--	--	46	--
JUL									
10...	80020	31.0	29.5	6.1	81	67	55	--	56
10...	81341	31.0	29.5	6.1	81	--	--	53	--
AUG									
21...	80020	31.0	29.5	6.1	81	46	38	--	40
21...	81341	31.0	29.5	6.1	83	--	--	37	--
SEP									
12...	81341	29.0	24.5	6.1	79	--	--	36	--

ALTAMAHA RIVER BASIN

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARB DISSOLVED LAB MG/L AS CACO3
OCT									
25...	80020	--	10	--	--	68	220	22	3
25...	81341	110	13	1.3	70	--	--	--	--
NOV									
14...	81341	110	20	1.4	130	--	--	--	--
DEC									
12...	81341	120	17	1.3	170	--	--	--	--
JAN									
23...	80020	--	17	--	--	74	47	17	2
23...	81341	90	21	1.3	70	--	--	--	--
FEB									
22...	81341	140	16	0.9	50	--	--	--	--
MAR									
28...	80020	--	26	--	--	170	160	21	1
28...	81341	200	32	1.5	240	--	--	--	--
APR									
24...	81341	--	29	0.4	50	--	--	--	--
MAY									
15...	80020	--	17	--	--	20	290	32	0
15...	81341	85	30	0.7	--	--	--	--	--
JUN									
28...	81341	70	12	0.9	80	--	--	--	--
JUL									
10...	80020	--	69	--	--	410	80	44	0
10...	81341	110	12	1.0	--	--	--	--	--
AUG									
21...	80020	--	4.2	--	--	67	100	30	0
21...	81341	60	17	0.6	130	--	--	--	--
SEP									
12...	81341	65	15	1.4	460	--	--	--	--

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT							
25...	80020	6.5	1.5	8.4	42	0.8	2.2
JAN							
23...	80020	4.8	1.2	6.6	43	0.7	1.9
MAR							
28...	80020	5.9	1.6	7.1	39	0.7	2.3
MAY							
15...	80020	9.9	1.8	17	52	1	1.9
JUL							
10...	80020	13	2.7	34	61	2	2.5
AUG							
21...	80020	8.5	2.0	29	66	2	2.8

ALTAMAHA RIVER BASIN

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)
OCT 25...	80020	77	59	2590	0.10	10	7.6	0.10	11
JAN 23...	80020	63	49	5330	0.09	9.0	6.2	<0.10	10
MAR 28...	80020	72	52	6070	0.10	6.4	6.0	0.20	9.4
MAY 15...	80020	110	95	2010	0.15	18	10	0.10	12
JUL 10...	80020	168	153	953	0.23	33	23	0.40	11
AUG 21...	80020	122	132	1080	0.17	33	23	<0.10	9.3

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2 + NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 25...	80020	0.020	--	0.110	0.030	0.020	0.67	0.70	0.090	<0.010	0.040	--
25...	81341	--	0.130	--	<0.030	--	--	--	0.070	--	--	14
NOV 14...	81341	--	0.440	--	0.050	--	--	--	0.140	--	--	7.5
DEC 12...	81341	--	0.300	--	<0.030	--	--	--	0.060	--	--	13
JAN 23...	80020	<0.010	--	0.120	0.030	0.030	0.37	0.40	0.030	0.010	0.020	--
23...	81341	--	0.120	--	0.040	--	--	--	0.020	--	--	6.4
FEB 22...	81341	--	0.220	--	<0.030	--	--	--	0.080	--	--	7.3
MAR 28...	80020	0.020	--	0.300	0.060	0.040	0.64	0.70	0.080	0.110	0.020	--
28...	81341	--	0.280	--	<0.030	--	--	--	0.190	--	--	8.0
APR 24...	81341	--	0.500	--	0.070	--	--	--	0.180	--	--	6.6
MAY 15...	80020	<0.010	--	0.800	0.040	0.030	0.36	0.40	0.070	0.020	0.020	--
15...	81341	--	--	--	0.040	--	--	--	0.080	--	--	6.9
JUN 28...	81341	--	0.280	--	0.160	--	--	--	0.080	--	--	6.5
JUL 10...	80020	0.020	--	0.100	0.060	0.030	0.54	0.60	0.070	0.020	<0.010	--
10...	81341	--	0.100	--	<0.030	--	--	--	0.080	--	--	3.4
AUG 21...	80020	<0.010	--	0.300	0.030	0.010	0.47	0.50	0.060	0.020	<0.010	--
21...	81341	--	0.370	--	<0.030	--	--	--	0.080	--	--	8.0
SEP 12...	81341	--	0.410	--	<0.030	--	--	--	0.070	--	--	7.1

ALTAMAHA RIVER BASIN

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
OCT 25...	80020	180	<1	37	<0.5	<1.0	2	<3	2	680	1
JAN 23...	80020	280	<1	28	<0.5	<1.0	<1	<3	<10	370	<10
MAY 15...	80020	80	<1	29	<0.5	<1.0	<1	<3	2	350	1
AUG 21...	80020	80	<1	20	<0.5	<1.0	1	<3	2	150	<1

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 25...	80020	<4	32	<0.1	<10	1	<1	<1.0	33	<6	37
JAN 23...	80020	<4	18	<0.1	<10	<10	<1	<1.0	26	<6	8
MAY 15...	80020	<4	28	<0.1	<10	--	<1	<1.0	45	<6	5
AUG 21...	80020	<4	19	<0.1	<10	1	<1	<1.0	47	<6	5

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 25...	0835	84213	12500	15.5	11	370	94
JAN 23...	0935	84213	31400	12.0	9	762	82
MAR 28...	0950	84213	31200	17.0	13	1100	98
MAY 15...	0935	84213	6770	24.5	20	365	95
JUL 10...	0850	84213	2100	31.0	10	57	97
AUG 21...	0805	84213	3270	31.0	17	150	91

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
OCT 25...	0830	80020	12500	1.3	<0.4	5.5	<0.4	4.3	<0.4	0.08	0.11

LAKES AND RESERVOIRS IN ALTAMAHA RIVER BASIN

02210000 LLOYD SHOALS RESERVOIR NEAR JACKSON, GA.

LOCATION.--Lat 33°19'13", long 83°50'20", Butts County, Hydrologic Unit 03070103, on Ocmulgee River, 1 mi upstream from bridge on State Highway 16, and 7 mi east of Jackson.

DRAINAGE AREA.--1,400 mi².

PERIOD OF RECORD.--October 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company.)

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 528.0 and 525.0 ft) is equipped with flashboards 308.5 ft wide by 2 ft high and 420 ft wide by 5 ft high. Dam completed in 1910. Total capacity at elevation 530.0 ft, top of flashboards, is 107,000 acre-ft, of which 78,000 acre-ft is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Company.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

Date	Elevation (feet)*	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	530.0	107000	-	-
Oct. 31.....	528.7	101000	-6000	-98
Nov. 30.....	525.8	88200	-12800	-215
Dec. 31.....	521.7	73000	-15200	-247
CAL YR 1989	-	-	-1000	-1
Jan. 31.....	527.6	95700	+ 22700	+ 369
Feb. 28.....	526.5	91000	-4700	-85
Mar. 31.....	526.4	90600	-400	-7
Apr. 30.....	528.4	99300	+ 8700	+ 146
May 31.....	528.1	98000	-1300	-21
June 30.....	527.8	96600	-1400	-24
July 31.....	529.1	102000	+ 5400	+ 88
Aug. 31.....	528.9	102000	0	0
Sept. 30.....	524.8	84200	-17800	-299
WTR YR 1990	-	-	-22800	-31

02220450 LAKE OCONEE NEAR EATONTON, GA.

LOCATION.--Lat 33°21'00", long 83°09'28", Putnam County, Hydrologic Unit 03070101, on Oconee River, 1.5 mi upstream from bridge on State Highway 16, and 13.3 mi east of Eatonton.

DRAINAGE AREA.--1,820 mi².

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

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company.)

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 435.6 ft) is equipped with five radial gates 42 ft wide by 44 ft high. Storage began in January 1979; water in reservoir first reached minimum pool elevation in July 1979. Capacity curve and monthend elevations furnished by Georgia Power Company.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

Date	Elevation (feet)*	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	434.9	358200	-	-
Oct. 31.....	434.8	356400	-1800	-29
Nov. 30.....	434.4	349200	-7200	-121
Dec. 31.....	434.9	358200	+ 9000	+ 146
CAL YR 1989	-	-	-5400	-7
Jan. 31.....	434.5	351000	-7200	-117
Feb. 28.....	434.1	343800	-7200	-130
Mar. 31.....	434.0	342000	-1800	-29
Apr. 30.....	434.1	343800	+ 1800	+ 30
May 31.....	434.5	351000	+ 7200	+ 117
June 30.....	433.9	340200	-10800	-181
July 31.....	434.4	349200	+ 9000	+ 146
Aug. 31.....	434.7	354600	+ 5400	+ 88
Sept. 30.....	434.7	354600	0	0
WTR YR 1990	-	-	-3600	-5

*Elevation at 0700 on day following that shown in first column.

LAKES AND RESERVOIRS IN ALTAMAHA RIVER BASIN--Continued

02222500 SINCLAIR RESERVOIR NEAR MILLEDGEVILLE, GA.

LOCATION.--Lat 33°08'27", long 83°12'08", Baldwin County, Hydrologic Unit 03070101, on Oconee River, 1.5 mi upstream from Georgia Railroad bridge, and 4 mi north of Milledgeville.

DRAINAGE AREA.--2,900 mi².

PERIOD OF RECORD.--October 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company).

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 319 ft) is equipped with 24 gates 30 ft wide by 21 ft high. Storage began in 1952; water in reservoir first reached minimum pool elevation in 1953. Total capacity at elevation 340.0 ft, top of gates, is 334,000 acre-ft, of which 214,600 acre-ft is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Company.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

Date	Elevation (feet)*	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	339.9	332500	-	-
Oct. 31.....	338.2	307000	-25500	-415
Nov. 30.....	334.5	257000	-50000	-840
Dec. 31.....	338.5	311500	+ 54500	+ 886
CAL YR 1989	-	-	-7500	-10
Jan. 31.....	338.8	316000	+ 4500	+ 73
Feb. 28.....	338.6	313000	-3000	-54
Mar. 31.....	338.5	311500	-1500	-24
Apr. 30.....	338.7	314500	+ 3000	+ 50
May 31.....	338.4	310000	-4500	-73
June 30.....	339.0	319000	+ 9000	+ 151
July 31.....	338.5	311500	-7500	-122
Aug. 31.....	338.3	308500	-3000	-49
Sept. 30.....	337.9	302600	-5900	-99
WTR YR 1990	-	-	-29900	-41

*Elevation at 0700 on day following that shown in first column.

BRUNSWICK RIVER BASIN

02226177 TURTLE RIVER AT GEORGIA HIGHWAY 303 AT BRUNSWICK, GA.

LOCATION.--Lat 31°11'13", long 81°31'55", Glynn County, Hydrologic Unit 03070203, at downstream side of bridge on State Highway 303, and 1.7 mi southwest of the junction of U.S. Highway 341 and State 303, 3.5 mi northwest of Brunswick Post Office, and 1.6 mi west of Arco.

PERIOD OF RECORD.--May 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 6.56 ft, May 24, 1990; minimum elevation recorded, -7.20 ft, Apr. 7, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 6.56 ft, May 24; minimum elevation recorded, -6.78 ft, Feb. 24.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.65	-2.97	4.45	-3.16	4.39	-3.46	3.21	-4.44	4.31	-4.23	5.20	-4.05
2	4.00	-3.34	4.52	-2.95	4.15	-3.54	4.03	-4.04	4.14	-4.08	5.44	-3.80
3	4.24	-3.19	4.40	-2.05	3.10	-4.13	3.67	-4.43	3.84	-3.67	5.06	-3.89
4	4.17	-2.70	4.26	-1.97	3.81	-3.69	3.73	-4.24	3.77	-4.36	4.53	-2.83
5	4.54	-1.81	4.67	-1.65	3.66	-3.96	3.59	-4.28	3.36	-3.06	4.65	-2.34
6	3.80	-2.10	4.32	-2.33	3.64	-3.67	3.89	-4.06	4.61	-3.86	4.89	-2.97
7	3.50	-2.39	3.84	-2.90	3.39	-4.06	4.65	-3.95	4.96	-4.02	4.80	-2.28
8	3.76	-2.51	4.19	-3.37	4.40	-3.41	5.18	-4.98	4.95	-4.79	5.73	-2.52
9	4.85	-1.32	4.47	-4.63	5.61	-4.76	4.82	-5.32	4.82	-4.69	5.07	-3.88
10	4.78	-2.30	4.90	-4.64	5.27	-4.74	4.63	-5.40	4.61	-4.97	4.40	-4.52
11	5.19	-3.14	5.04	-5.03	5.44	-4.67	4.99	-5.55	4.73	-4.93	4.58	-4.51
12	5.27	-3.39	5.41	-5.24	5.68	-5.04	4.39	-5.80	4.13	-4.43	4.39	-4.30
13	5.45	-4.14	5.71	-5.54	4.64	-5.46	4.57	-4.66	3.71	-4.25	4.16	-4.33
14	5.83	-4.63	5.82	-5.20	4.81	-5.40	4.51	-4.28	3.48	-4.01	4.28	-3.99
15	6.12	-4.84	5.58	-4.98	4.95	-4.83	4.26	-3.90	3.50	-3.51	4.13	-3.34
16	5.95	-5.15	3.97	-4.76	4.11	-4.55	3.78	-3.70	2.96	-3.58	4.03	-3.04
17	5.84	-4.88	4.56	-4.01	4.52	-3.21	3.45	-3.46	2.23	-3.42	3.74	-3.78
18	5.54	-4.28	3.94	-3.60	4.11	-2.80	3.32	-2.95	3.16	-1.26	2.78	-2.80
19	4.56	-4.24	3.66	-3.25	3.90	-2.67	3.03	-2.55	3.37	-2.22	3.15	-2.08
20	3.86	-4.45	3.32	-3.44	3.51	-2.32	3.33	-2.05	3.42	-1.83	3.39	-2.73
21	3.96	-3.33	2.83	-3.86	3.59	-2.70	3.09	-3.68	4.55	-2.70	3.75	-1.98
22	4.12	-3.11	3.34	-3.17	3.37	-2.12	2.48	-3.77	4.31	-3.99	3.86	-2.69
23	4.22	-2.12	3.30	-3.82	4.21	-2.66	3.58	-3.40	4.04	-4.15	4.10	-3.90
24	4.27	-2.27	3.75	-2.54	3.98	-2.82	4.02	-3.44	3.54	-6.78	4.62	-4.16
25	4.49	-1.97	4.12	-2.84	4.35	-3.20	4.33	-3.90	4.62	-6.05	5.09	-4.74
26	4.91	-1.91	4.35	-3.25	3.50	-4.11	3.30	-5.12	5.38	-4.30	5.88	-4.96
27	5.09	-1.88	4.41	-3.28	4.22	-4.36	4.15	-5.28	5.36	-4.73	6.48	-4.37
28	5.59	-1.86	4.40	-3.66	3.67	-4.98	4.24	-4.86	5.19	-4.90	6.18	-4.19
29	5.52	-1.90	3.90	-4.15	4.10	-4.52	4.43	-4.83	---	---	5.78	-4.48
30	5.49	-2.16	4.37	-3.21	4.22	-4.67	4.28	-4.94	---	---	5.52	-4.14
31	4.97	-2.82	---	---	4.25	-4.33	4.07	-4.85	---	---	5.36	-4.25
MONTH	6.12	-5.15	5.82	-5.54	5.68	-5.46	5.18	-5.80	5.38	-6.78	6.48	-4.96

BRUNSWICK RIVER BASIN

02226177 TURTLE RIVER AT GEORGIA HIGHWAY 303 AT BRUNSWICK, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.95	-3.16	4.00	-4.06	4.34	-2.20	--	--	3.96	-2.58	4.54	-2.20
2	4.66	-2.87	4.30	-3.07	4.18	-2.79	--	--	4.18	-2.55	4.92	-2.43
3	4.44	-3.36	4.06	-3.05	4.17	-3.36	--	--	4.59	-3.04	4.95	-3.31
4	3.97	-3.44	4.06	-3.25	3.81	-3.34	--	--	4.71	-2.67	5.15	-3.67
5	3.95	-3.72	3.74	-4.10	4.94	-3.54	--	--	4.73	-3.28	5.32	-3.53
6	3.97	-3.86	4.53	-4.24	4.82	-2.71	--	--	4.74	-3.60	5.11	-4.01
7	4.38	-4.22	4.72	-3.25	4.38	-3.20	--	--	4.66	-3.92	5.02	-4.30
8	4.86	-3.62	4.66	-3.54	4.30	-3.64	--	--	4.64	-3.82	4.88	-4.60
9	4.83	-3.09	4.57	-3.58	4.28	-3.74	--	--	4.72	-3.92	5.05	-4.25
10	4.56	-4.04	4.16	-4.07	3.86	-3.93	--	--	4.73	-4.09	5.15	-3.42
11	3.70	-4.66	4.05	-4.41	4.81	-4.29	--	--	4.77	-4.00	5.15	-2.98
12	4.27	-3.61	4.35	-3.68	4.91	-3.14	--	--	4.65	-3.84	5.27	-2.61
13	4.42	-3.26	3.71	-3.32	4.92	-2.64	--	--	4.60	-3.56	5.18	-2.62
14	4.07	-2.60	3.66	-3.40	4.51	-2.87	--	--	4.47	-3.87	5.14	-2.89
15	3.89	-2.60	3.78	-2.74	4.12	-3.56	--	--	4.65	-4.02	4.75	-3.44
16	3.71	-2.57	3.98	-2.58	4.76	-2.67	--	--	4.73	-4.13	5.26	-3.86
17	3.50	-2.11	3.75	-2.85	5.35	-2.45	--	--	5.31	-4.12	5.53	-3.72
18	3.49	-2.32	3.94	-3.45	5.47	-3.31	--	--	5.53	-3.91	5.46	-3.02
19	4.28	-1.77	4.00	-3.60	5.63	-4.23	5.05	--	5.54	-3.86	5.21	-3.31
20	3.90	-3.21	4.64	-4.11	5.96	-4.54	5.19	-4.64	5.43	-4.28	4.83	-3.43
21	4.09	-3.81	4.99	-5.13	--	--	5.08	-5.12	5.11	-4.16	4.66	-3.48
22	5.28	-4.59	5.20	-5.91	--	--	5.13	-5.30	5.17	-4.11	4.33	-3.37
23	5.73	-4.32	6.55	-4.58	--	--	5.25	-5.10	4.68	-3.78	4.34	-3.12
24	5.75	-5.32	6.56	-4.56	--	--	5.14	-4.66	4.37	-3.65	4.20	-2.06
25	5.71	-5.75	6.18	-4.87	--	--	5.01	-4.07	4.05	-3.20	3.83	-1.92
26	5.65	-5.90	5.95	-4.61	--	--	4.94	-3.14	3.83	-3.05	3.57	-1.60
27	5.77	-5.33	5.55	-4.63	--	--	4.91	-2.22	3.70	-2.48	3.61	-2.10
28	5.37	-4.88	5.50	-3.98	--	--	4.71	-1.67	3.92	-1.90	3.87	-1.74
29	5.33	-4.54	5.34	-3.80	--	--	4.56	-1.61	3.65	-1.99	4.11	-2.09
30	4.85	-4.22	4.56	-3.38	--	--	4.05	-1.96	3.98	-2.15	4.34	-2.75
31	--	--	4.61	-2.82	--	--	3.75	-2.33	4.08	-1.94	--	--
MONTH	5.77	-5.90	6.56	-5.91	--	--	--	--	5.54	-4.28	5.53	-4.60

BRUNSWICK RIVER BASIN

02226178 EAST RIVER AT MAYORS POINT TERMINAL AT BRUNSWICK, GA.

LOCATION.--Lat 31°08'38", long 81°29'49", Glynn County, Hydrologic Unit 03070203, at Georgia Ports Authority's Mayors Point Terminal Dock, 1.2 mi upstream of the Brunswick River, and 0.4 mi southwest of Brunswick Post Office.

PERIOD OF RECORD.--May 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 6.11 ft, May 24, 1990; minimum elevation recorded, -7.08 ft, Apr. 7, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 6.11 ft, May 24; minimum elevation recorded, -6.63 ft, Feb. 24.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.19	-2.83	4.05	-3.00	3.98	-3.34	2.78	-4.47	3.90	-4.11	4.91	-3.97
2	3.59	-3.25	4.12	-2.77	3.70	-3.49	3.62	-3.97	3.71	-3.94	4.96	-3.68
3	3.82	-3.13	4.01	-2.01	2.72	-4.17	3.26	-4.32	3.44	-3.71	4.58	-3.89
4	3.82	-2.59	3.87	-1.90	3.41	-3.67	3.34	-4.22	3.33	-4.43	4.09	-2.78
5	4.12	-1.69	4.26	-1.66	3.28	-4.05	3.16	-4.30	2.97	-3.06	4.30	-2.24
6	3.41	-1.99	3.93	-2.35	3.22	-3.80	3.51	-4.08	4.22	-3.90	4.54	-2.87
7	3.08	-2.48	3.43	-2.93	3.05	-4.07	4.31	-3.89	4.52	-3.95	4.46	-2.00
8	3.38	-2.62	3.78	-3.33	4.00	-3.37	4.74	-5.09	4.52	-4.72	5.38	-2.51
9	4.49	-1.31	4.04	-4.56	5.27	-4.63	4.39	-5.26	4.46	-4.54	4.70	-3.61
10	4.40	-2.29	4.45	-4.89	4.86	-4.46	4.20	-5.38	4.24	-4.84	4.05	-4.29
11	4.74	-3.03	4.58	-4.94	5.08	-4.59	4.52	-5.52	4.45	-4.81	4.22	-4.27
12	4.82	-3.30	4.96	-5.10	5.22	-4.91	3.99	-5.79	3.78	-4.23	4.04	-4.10
13	4.99	-3.98	5.25	-5.44	4.28	-5.35	4.17	-4.65	3.38	-4.05	3.82	-4.16
14	5.41	-4.44	5.37	-5.09	4.36	-5.33	4.08	-4.23	3.17	-3.83	3.94	-3.81
15	5.65	-4.66	5.14	-4.86	4.52	-4.80	3.82	-3.76	3.06	-3.33	3.79	-3.18
16	5.48	-4.95	3.63	-4.65	3.71	-4.49	3.38	-3.62	2.65	-3.52	3.46	-2.90
17	5.36	-4.73	4.09	-4.10	4.14	-3.24	3.05	-3.34	1.95	-3.25	3.36	-3.61
18	5.06	-4.11	3.51	-3.76	3.67	-2.81	3.00	-2.94	2.86	-1.42	2.53	-2.81
19	4.17	-4.24	3.22	-3.30	3.55	-2.52	2.66	-2.66	3.03	-2.31	2.82	-2.19
20	3.45	-4.48	2.91	-3.64	3.11	-2.40	2.91	-2.15	3.13	-1.72	2.89	-2.73
21	3.53	-3.42	2.38	-3.89	3.26	-2.83	2.72	-3.72	4.26	-2.54	3.32	-2.14
22	3.67	-3.16	2.93	-3.20	2.99	-2.12	2.10	-3.77	3.98	-3.96	3.42	-2.75
23	3.80	-2.20	2.86	-3.92	3.94	-2.63	3.15	-3.44	3.77	-4.10	3.67	-3.97
24	3.93	-2.18	3.41	-2.62	3.62	-2.84	3.62	-3.45	3.01	-6.63	4.14	-4.15
25	4.08	-1.78	3.70	-3.06	4.03	-3.43	3.90	-3.89	4.07	-5.90	4.60	-4.69
26	4.52	-1.77	3.91	-3.18	3.06	-4.09	2.83	-5.11	4.79	-4.17	5.37	-4.89
27	4.67	-1.74	3.97	-3.30	3.88	-4.29	3.74	-5.19	4.77	-4.74	6.03	-4.20
28	5.34	-1.63	3.99	-3.65	3.28	-4.93	3.85	-4.79	4.64	-4.82	5.68	-3.98
29	5.14	-1.79	3.52	-4.08	3.69	-4.55	4.03	-4.70	---	---	5.33	-4.38
30	5.10	-2.01	3.97	-3.12	3.81	-4.62	3.88	-4.87	---	---	4.88	-4.11
31	4.54	-2.71	---	---	3.80	-4.25	3.84	-4.76	---	---	4.85	-4.23
MONTH	5.65	-4.95	5.37	-5.44	5.27	-5.35	4.74	-5.79	4.79	-6.63	6.03	-4.89

BRUNSWICK RIVER BASIN

02226178 EAST RIVER AT MAYORS POINT TERMINAL AT BRUNSWICK, GA.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

BRUNSWICK RIVER BASIN

022261792 SOUTH BRUNSWICK RIVER AT COLONELS ISLAND NEAR BRUNSWICK, GA.

LOCATION.--Lat 31°07'55", long 81°32'13", Glynn County, Hydrologic Unit 03070203, at Georgia Ports Authority's Colonels Island Terminal Dock, approximately 1 mi upstream from confluence of South Brunswick and Turtle Rivers, and 2.9 mi west-southwest of Brunswick Post Office.

PERIOD OF RECORD.--May 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 6.24 ft, May 23, 24, 1990; minimum elevation recorded, -7.21 ft, Apr. 7, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 6.24 ft, May 23, 24; minimum elevation recorded, -6.73 ft, Feb. 24.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.31	-2.95	4.16	-3.06	4.10	-3.39	2.94	-4.43	4.00	-4.14	5.05	-3.92
2	3.67	-3.31	4.22	-2.86	3.86	-3.53	3.76	-3.98	3.84	-3.99	5.17	-3.67
3	3.92	-3.21	4.13	-2.00	2.83	-4.16	3.38	-4.40	3.54	-3.69	4.79	-3.91
4	3.86	-2.66	3.98	-1.93	3.54	-3.71	3.44	-4.26	3.46	-4.40	4.26	-2.74
5	4.21	-1.78	4.39	-1.62	3.35	-4.04	3.28	-4.31	3.10	-3.03	4.41	-2.25
6	3.48	-2.06	4.04	-2.33	3.33	-3.76	3.66	-4.07	4.34	-3.94	4.66	-2.89
7	3.18	-2.48	3.56	-2.90	3.20	-4.06	4.39	-3.94	4.64	-3.97	4.55	-2.08
8	3.43	-2.62	3.88	-3.35	4.12	-3.31	4.87	-5.06	4.62	-4.72	5.52	-2.49
9	4.56	-1.34	4.14	-4.57	5.33	-4.70	4.50	-5.31	4.54	-4.58	4.80	-3.73
10	4.47	-2.32	4.56	-4.94	4.97	-4.59	4.32	-5.37	4.32	-4.88	4.14	-4.43
11	4.86	-3.10	4.72	-5.01	5.21	-4.63	4.65	-5.51	4.46	-4.81	4.31	-4.40
12	4.91	-3.34	5.07	-5.15	5.35	-4.97	4.06	-5.79	3.86	-4.31	4.13	-4.20
13	5.08	-4.07	5.37	-5.45	4.32	-5.45	4.27	-4.67	3.46	-4.10	3.91	-4.22
14	5.51	-4.56	5.48	-5.12	4.48	-5.35	4.20	-4.29	3.27	-3.92	4.03	-3.88
15	5.74	-4.77	5.24	-4.91	4.62	-4.79	3.95	-3.79	3.23	-3.45	3.88	-3.27
16	5.57	-5.07	3.66	-4.71	3.83	-4.54	3.47	-3.67	2.74	-3.53	3.64	-2.93
17	5.48	-4.82	4.23	-4.02	4.25	-3.17	3.16	-3.39	2.02	-3.31	3.46	-3.70
18	5.27	-4.20	3.65	-3.64	3.86	-2.78	3.12	-2.97	2.95	-1.39	2.56	-2.71
19	4.22	-4.32	3.36	-3.24	3.65	-2.57	2.78	-2.62	3.12	-2.27	2.92	-2.16
20	3.52	-4.53	3.03	-3.55	3.24	-2.36	3.05	-2.13	3.21	-1.77	3.01	-2.78
21	3.66	---	2.55	-3.89	3.36	-2.82	2.82	-3.69	4.42	-2.62	3.42	-2.09
22	3.81	-3.17	3.06	-3.19	3.11	-2.10	2.21	-3.76	4.07	-4.03	3.53	-2.77
23	3.94	-2.19	2.99	-3.81	4.00	-2.65	3.27	-3.47	3.80	-4.10	3.75	-3.99
24	4.01	-2.23	3.48	-2.63	3.72	-2.86	3.74	-3.46	3.23	-6.73	4.22	-4.20
25	---	-1.87	3.83	-3.06	4.14	-3.41	4.02	-3.90	4.33	-5.98	4.69	-4.73
26	4.65	-1.86	4.05	-3.19	3.19	-4.12	2.98	-5.11	5.11	-4.17	5.48	-4.95
27	4.81	-1.78	4.11	-3.32	4.00	-4.37	3.85	-5.21	5.05	-4.60	6.10	-4.30
28	5.33	-1.75	4.09	-3.63	3.37	-4.98	3.95	-4.83	4.90	-4.78	5.79	-4.05
29	5.27	-1.81	3.61	-4.13	3.80	-4.57	4.12	-4.75	---	---	5.40	-4.43
30	5.22	-2.04	4.09	-3.15	3.92	-4.67	3.97	-4.87	---	---	4.96	-4.14
31	4.67	-2.73	---	---	3.95	-4.32	3.89	-4.78	---	---	4.98	-4.28
MONTH	---	---	5.48	-5.45	5.35	-5.45	4.87	-5.79	5.11	-6.73	6.10	-4.95

BRUNSWICK RIVER BASIN

022261792 SOUTH BRUNSWICK RIVER AT COLONELS ISLAND NEAR BRUNSWICK, GA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.58	-3.13	3.70	-4.06	4.05	-2.13	3.48	-3.52	3.70	-2.63	4.28	-2.26
2	4.32	-2.96	4.01	-3.02	3.89	-2.74	4.11	-3.29	3.93	-2.57	4.67	-2.38
3	4.07	-3.37	3.77	-3.01	3.85	-3.40	4.17	-1.75	4.30	-2.99	4.64	-3.26
4	3.64	-3.48	3.76	-3.19	3.54	-3.38	4.19	-2.53	4.45	-2.67	4.86	-3.54
5	3.61	-3.79	3.44	-4.19	4.65	-3.53	3.77	-3.29	4.44	-3.27	5.02	-3.38
6	3.60	-3.95	4.24	-4.26	4.53	-2.65	4.12	-3.51	4.45	-3.57	4.80	-3.85
7	4.02	-4.26	4.44	-3.16	4.08	-3.24	4.45	-3.18	4.36	-3.86	4.70	-4.15
8	4.52	-3.65	4.35	-3.49	3.99	-3.66	4.60	-3.25	4.36	-3.79	4.57	-4.50
9	4.48	-3.02	4.25	-3.59	3.98	-3.66	4.45	-3.40	4.42	-3.77	4.73	-4.16
10	4.17	-4.12	3.87	-4.07	3.56	-3.89	4.02	-3.58	4.42	-4.01	4.83	-3.30
11	3.35	-4.69	3.77	-4.35	4.58	-4.29	3.84	-4.09	4.47	-3.92	4.85	-2.98
12	3.94	-3.58	4.05	-3.61	4.64	-3.07	3.58	-4.26	4.35	-3.78	4.96	-2.59
13	4.09	-3.27	3.43	-3.28	4.61	-2.51	3.46	-4.23	4.28	-3.51	4.90	-2.58
14	3.64	-2.59	3.38	-3.41	4.24	-2.84	3.42	-4.25	4.15	-3.91	4.83	-2.87
15	3.51	-2.61	3.61	-2.68	3.83	-3.55	3.91	-4.55	4.34	-4.04	4.48	-3.44
16	3.41	-2.56	3.71	-2.58	4.48	-2.67	4.10	-4.20	4.41	-4.10	4.96	-3.78
17	3.18	-2.20	3.47	-2.90	5.06	-2.40	4.41	-4.21	4.98	-4.09	5.23	-3.59
18	3.29	-2.27	3.63	-3.43	5.17	-3.21	4.46	-4.53	5.23	-3.88	5.16	-2.88
19	4.12	-1.78	3.70	-3.60	5.28	-4.20	4.74	-4.45	5.25	-3.81	4.91	-3.17
20	3.66	-3.13	4.33	-4.05	5.63	-4.50	4.86	-4.64	5.12	-4.22	4.53	-3.31
21	3.78	-3.76	4.66	-5.13	5.63	-4.67	4.76	-5.08	4.79	-4.07	4.38	-3.36
22	4.99	-4.56	4.89	-5.81	5.29	-5.01	4.81	-5.23	4.86	-4.00	4.05	-3.24
23	5.44	-4.17	6.24	-4.42	5.01	-5.33	4.94	-5.03	4.39	-3.60	4.07	-3.04
24	5.43	-5.27	6.24	-4.46	5.31	-4.86	4.83	-4.50	4.07	-3.56	3.96	-1.98
25	5.38	-5.62	5.85	-4.77	5.08	-4.33	4.72	-3.95	3.77	-3.11	3.57	-1.86
26	5.31	-5.83	5.58	-4.64	4.68	-3.98	4.54	-3.08	3.54	-2.99	3.31	-1.63
27	5.44	-5.24	5.24	-4.51	4.69	-3.67	4.64	-2.09	3.41	-2.47	3.36	-2.12
28	5.04	-4.85	5.08	-3.86	4.32	-3.53	4.47	-1.58	3.64	-1.91	3.62	-1.72
29	4.92	-4.48	5.03	-3.65	3.59	-3.37	4.29	-1.58	3.36	-2.05	3.85	-2.06
30	4.55	-4.18	4.28	-3.28	3.33	-3.62	3.76	-1.94	3.71	-2.14	4.06	-2.69
31	---	---	4.31	-2.76	---	---	3.51	-2.42	3.81	-1.89	---	---
MONTH	5.44	-5.83	6.24	-5.81	5.63	-5.33	4.94	-5.23	5.25	-4.22	5.23	-4.50

BRUNSWICK RIVER BASIN

022261796 BRUNSWICK RIVER AT JEKYLL ISLAND NEAR BRUNSWICK, GA.
 (Formerly published as Brunswick River (Clam Creek Road-Jekyll Island) near Brunswick, Ga.)

LOCATION.--Lat 31°07'02", long 81°25'04", Glynn County, Hydrologic Unit 03070203, on landward side of Jekyll Island fishing pier, at north end of Jekyll Island on Clam Creek Road, 5.0 mi southeast of Brunswick Post Office.

PERIOD OF RECORD.--June 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 5.77 ft, Mar. 10, 1989; minimum elevation recorded, -6.78 ft, Apr. 7, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 5.73 ft, May 23; minimum elevation recorded, -6.26 ft, Feb. 24.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3.88	-2.64	3.73	-2.81	3.70	-3.19	2.44	-4.37	3.59	-3.93	4.79	-3.58
2	3.30	-3.02	3.85	-2.56	3.44	-3.33	3.31	-3.82	3.42	-3.78	4.74	-3.39
3	3.51	-2.99	3.69	-1.91	2.46	-4.15	2.94	-4.13	3.15	-3.66	4.42	-3.65
4	3.48	-2.38	3.56	-1.80	3.17	-3.56	3.01	-4.11	3.02	-4.38	3.85	-2.58
5	3.86	-1.66	3.96	-1.59	2.91	-3.94	2.80	-4.17	2.68	-2.99	3.99	-2.16
6	3.11	-1.88	3.58	-2.33	2.90	-3.70	3.19	-3.97	3.92	-3.78	4.22	-2.72
7	2.72	-2.52	3.15	-2.82	2.73	-3.93	3.96	-3.72	4.22	-3.82	4.18	-1.78
8	3.07	-2.56	3.45	-3.17	3.72	-3.20	4.43	-5.02	4.23	-4.50	5.06	-2.68
9	4.19	-1.22	3.75	-4.40	4.88	-4.37	4.08	-5.08	4.14	-4.36	4.37	-3.41
10	4.11	-2.08	4.14	-4.71	4.57	-4.12	3.93	-5.17	3.94	-4.65	3.72	-4.08
11	4.38	-2.79	4.26	-4.61	4.85	-4.36	4.30	-5.33	4.11	-4.58	3.90	-4.04
12	4.54	-3.40	4.65	-4.85	4.93	-4.71	3.69	-5.61	3.48	-3.99	3.72	-3.91
13	4.74	-3.74	4.90	-5.19	4.04	-5.08	3.92	-4.51	3.05	-3.86	3.45	-3.91
14	5.10	-4.17	5.12	-4.84	4.11	-5.09	3.77	-4.03	2.89	-3.68	3.58	-3.63
15	5.34	-4.38	4.82	-4.61	4.24	-4.61	3.56	-3.54	2.59	-3.20	3.44	-3.05
16	5.19	-4.67	3.38	-4.38	3.52	-4.31	3.04	-3.46	2.31	-3.43	3.01	-2.81
17	5.13	-4.46	3.84	-4.10	3.90	-2.96	2.74	-3.16	1.66	-3.13	2.97	-3.45
18	4.77	-3.85	3.26	-3.63	3.43	-2.70	2.70	-2.85	2.59	-1.47	2.22	-2.83
19	3.94	-4.01	2.93	-3.26	3.33	-2.27	2.34	-2.64	2.74	-2.34	2.45	-2.15
20	3.19	-4.46	2.61	-3.63	2.79	-2.34	2.61	-2.17	2.83	-1.65	2.56	-2.64
21	3.24	-3.37	2.07	-3.76	3.02	-2.75	2.44	-3.69	3.96	-2.44	3.04	-2.09
22	3.36	-3.04	2.62	-3.08	2.75	-2.09	1.80	-3.64	3.72	-3.77	3.12	-2.68
23	3.46	-2.12	2.48	-3.86	3.70	-2.46	2.79	-3.37	3.39	-4.50	3.37	-3.84
24	3.74	-2.09	3.05	-2.55	3.45	-2.73	3.28	-3.35	2.75	-6.26	3.84	-4.01
25	3.84	-1.95	3.40	-2.98	3.84	-3.57	3.60	-3.74	3.98	-5.65	4.24	-4.47
26	4.26	-1.62	3.61	-3.03	2.76	-3.94	2.47	-5.01	4.71	-3.97	5.03	-4.64
27	4.40	-1.57	3.68	-3.17	3.60	-4.15	3.40	-5.02	4.70	-4.31	5.60	-3.95
28	4.96	-1.48	3.72	-3.46	2.95	-4.72	3.55	-4.61	4.54	-4.43	5.44	-3.77
29	4.92	-1.56	3.28	-3.91	3.38	-4.40	3.79	-4.51	---	---	5.03	-4.11
30	4.84	-1.78	3.77	-2.91	3.52	-4.47	3.56	-4.67	---	---	4.59	-3.90
31	4.25	-2.52	---	---	3.49	-4.10	3.61	-4.54	---	---	4.16	-4.02
MONTH	5.34	-4.67	5.12	-5.19	4.93	-5.09	4.43	-5.61	4.71	-6.26	5.60	-4.64

BRUNSWICK RIVER BASIN

022261796 BRUNSWICK RIVER AT JEKYLL ISLAND NEAR BRUNSWICK, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

BRUNSWICK RIVER BASIN

022261798 MAKAY RIVER AT TORRAS CAUSEWAY NEAR BRUNSWICK, GA.

LOCATION.--Lat 31°10'17", long 81°25'37", Glynn County, Hydrologic Unit 03070203, at downstream side of fish pier (Old Torros Causeway), 20 ft downstream of Torras Causeway, approximately 3.5 mi upstream of St. Simons Sound, and 4.2 mi east-northeast of Brunswick Post Office.

PERIOD OF RECORD.--July 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 5.96 ft, Mar. 9, 1989; minimum elevation recorded, -6.74 ft, Apr. 7, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 5.92 ft, May 24; minimum elevation recorded, -6.30 ft, Feb. 24.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.11	-2.64	3.98	-2.80	3.90	-3.19	2.73	-4.33	3.84	-3.95	5.02	-3.58
2	3.52	-3.02	4.05	-2.55	3.64	-3.30	3.58	-3.79	3.69	-3.76	5.02	-3.35
3	3.72	-2.99	3.92	-1.82	2.66	-4.03	3.24	-4.16	3.40	-3.60	4.63	-3.62
4	3.69	-2.38	3.80	-1.69	3.35	-3.53	3.30	-4.08	3.31	-4.34	4.10	-2.52
5	3.99	-1.52	4.16	-1.55	3.15	-3.93	3.14	-4.15	2.87	-2.94	4.24	-2.07
6	3.29	-1.81	3.85	-2.27	3.14	-3.66	3.46	-3.95	4.17	-3.76	4.47	-2.72
7	2.97	-2.42	3.35	-2.77	2.96	-3.92	4.21	-3.73	4.48	-3.78	4.41	-1.82
8	3.25	-2.56	3.66	-3.13	3.93	-3.20	4.66	-4.99	4.46	-4.48	5.28	-2.56
9	4.29	-1.19	3.96	-4.37	5.11	-4.40	4.32	-5.08	4.39	-4.32	4.66	-3.38
10	4.24	-2.12	4.33	-4.67	4.76	-4.10	4.15	-5.14	4.18	-4.62	3.99	-4.04
11	4.63	-2.82	4.45	-4.67	4.97	-4.31	4.47	-5.30	4.35	-4.55	4.18	-4.02
12	4.70	-3.29	4.83	-4.83	5.12	-4.67	3.96	-5.55	3.76	-3.98	4.00	-3.86
13	4.87	-3.71	5.10	-5.17	4.20	-5.09	4.13	-4.45	3.35	-3.84	3.75	-3.91
14	5.28	-4.17	5.20	-4.82	4.30	-5.08	4.04	-4.02	3.14	-3.66	3.88	-3.63
15	5.52	-4.38	4.98	-4.59	4.43	-4.62	3.82	-3.52	2.93	-3.14	3.74	-3.00
16	5.37	-4.63	3.52	-4.39	3.63	-4.29	3.33	-3.44	2.59	-3.36	3.30	-2.68
17	5.27	-4.42	4.01	-4.01	4.08	-2.96	3.01	-3.14	1.86	-3.09	3.27	-3.43
18	5.00	-3.85	3.44	-3.55	3.64	-2.65	2.96	-2.77	2.77	-1.47	2.43	-2.74
19	4.16	-3.97	3.12	-3.20	3.50	-2.30	2.59	-2.64	2.95	-2.29	2.71	-2.12
20	3.44	-4.30	2.82	-3.62	3.02	-2.30	2.84	-2.07	3.05	-1.65	2.81	-2.58
21	3.48	-3.30	2.27	-3.76	3.18	-2.73	2.64	-3.63	4.10	-2.41	3.25	-2.01
22	3.64	-2.99	2.83	-3.03	2.94	-2.07	2.04	-3.60	3.91	-3.76	3.37	-2.62
23	3.70	-2.06	2.73	-3.81	3.83	-2.43	3.07	-3.30	3.63	-4.18	3.60	-3.80
24	3.86	-2.03	3.27	-2.50	3.61	-2.70	3.57	-3.33	3.08	-6.30	4.05	-3.93
25	4.03	-1.62	3.67	-2.90	3.99	-3.44	3.87	-3.74	4.18	-5.67	4.51	-4.43
26	4.45	-1.60	3.84	-3.00	3.02	-3.92	2.77	-4.93	4.93	-3.92	5.28	-4.58
27	4.61	-1.51	3.88	-3.13	3.84	-4.13	3.64	-5.01	4.92	-4.27	5.88	-3.87
28	5.17	-1.39	3.88	-3.44	3.22	-4.71	3.80	-4.62	4.75	-4.43	5.63	-3.71
29	5.10	-1.58	3.43	-3.92	3.63	-4.39	3.98	-4.48	---	---	5.26	-4.06
30	5.02	-1.72	3.88	-2.90	3.79	-4.46	3.80	-4.64	---	---	4.86	-3.82
31	4.50	-2.46	---	---	3.77	-4.07	3.85	-4.55	---	---	4.65	-3.97
MONTH	5.52	-4.63	5.20	-5.17	5.12	-5.09	4.66	-5.55	4.93	-6.30	5.88	-4.58

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

BRUNSWICK RIVER BASIN

02226180 BRUNSWICK RIVER AT VILLAGE PIER AT ST. SIMONS ISLAND, GA.

LOCATION.--Lat 31°07'59", long 81°23'49", Glynn County, Hydrologic Unit 03070203, at downstream side of Village Pier, on St. Simons Island.

PERIOD OF RECORD.--May 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 5.75 ft, Mar. 9, 1989; minimum elevation recorded, -6.74 ft, Apr. 7, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 5.71 ft, May 24; minimum elevation recorded, -6.29 ft, Feb. 24.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3.91	-2.61	3.73	-2.75	3.68	-3.14	2.37	-4.38	3.47	-3.89	4.71	-3.58
2	3.24	-2.97	3.77	-2.51	3.37	-3.31	3.25	-3.79	3.38	-3.76	4.55	-3.33
3	3.42	-2.97	3.66	-1.92	2.39	-4.02	2.86	-4.11	3.08	-3.66	4.33	-3.61
4	3.37	-2.35	3.52	-1.70	3.08	-3.52	2.93	-4.08	2.89	-4.35	3.80	-2.53
5	3.76	-1.53	3.95	-1.69	2.86	-3.91	2.74	-4.13	2.57	-2.97	3.94	-2.11
6	3.04	-1.87	3.57	-2.34	2.82	-3.69	3.19	-3.95	3.86	-3.76	4.21	-2.71
7	2.68	-2.52	3.00	-2.79	2.66	-3.93	3.98	-3.70	4.21	-3.82	4.13	-1.70
8	3.00	-2.58	3.38	-3.16	3.64	-3.18	4.37	-4.98	4.20	-4.45	5.06	-2.67
9	4.08	-1.23	3.64	-4.35	4.87	-4.32	4.00	-5.04	4.03	-4.32	4.43	-3.38
10	4.07	-2.08	4.10	-4.62	4.62	-4.09	3.92	-5.13	3.86	-4.60	3.67	-4.04
11	4.39	-2.77	4.21	-4.52	4.83	-4.29	4.27	-5.29	3.93	-4.55	3.87	-4.02
12	4.47	-3.42	4.55	-4.77	4.93	-4.63	3.68	-5.60	3.47	-3.97	3.62	-3.84
13	4.65	-3.67	4.93	-5.14	4.04	-5.02	3.84	-4.47	2.94	-3.82	3.49	-3.89
14	5.06	-4.12	5.00	-4.78	4.06	-5.04	3.71	-4.01	2.77	-3.65	3.54	-3.59
15	5.29	-4.35	4.88	-4.55	4.31	-4.59	3.46	-3.48	2.50	-3.19	3.41	-3.00
16	5.22	-4.60	3.25	-4.36	3.37	-4.28	2.95	-3.42	2.30	-3.39	2.96	-2.77
17	5.00	-4.40	3.82	-4.02	3.86	-2.93	2.68	-3.13	1.58	-3.12	2.95	-3.44
18	4.66	-3.82	3.13	-3.91	3.34	-2.67	2.62	-2.87	2.47	-1.54	2.16	-2.84
19	3.85	-3.98	2.83	-3.22	3.23	-2.23	2.29	-2.70	2.67	-2.39	2.41	-2.18
20	3.14	-4.32	2.51	-3.63	2.69	-2.38	2.64	-2.19	2.76	-1.62	2.48	-2.60
21	3.17	-3.34	1.98	-3.73	2.93	-2.73	2.35	-3.68	3.89	-2.41	2.98	-2.11
22	3.26	-3.00	2.56	-3.06	2.65	-2.03	1.71	-3.61	3.59	-3.73	3.05	-2.68
23	3.41	-2.09	2.37	-3.85	3.58	-2.43	2.77	-3.38	3.36	-4.47	3.30	-3.82
24	3.61	-2.07	2.97	-2.49	3.31	-2.73	3.20	-3.39	2.68	-6.29	3.70	-3.95
25	3.68	-1.64	3.34	-2.94	3.76	-3.58	3.48	-3.69	3.82	-5.63	4.32	-4.43
26	4.12	-1.60	3.63	-2.97	2.71	-3.89	2.36	-4.93	4.63	-3.90	5.03	-4.55
27	4.38	-1.55	3.67	-3.15	3.55	-4.09	3.34	-4.97	4.67	-4.25	5.58	-3.85
28	4.85	-1.42	3.66	-3.43	2.82	-4.67	3.45	-4.58	4.44	-4.37	5.35	-3.70
29	4.79	-1.56	3.20	-3.87	3.31	-4.38	3.72	-4.49	---	---	4.94	-4.07
30	4.78	-1.73	3.67	-2.86	3.47	-4.43	3.49	-4.64	---	---	4.57	-3.83
31	4.27	-2.46	---	---	3.44	-4.06	3.49	-4.51	---	---	4.10	-3.95
MONTH	5.29	-4.60	5.00	-5.14	4.93	-5.04	4.37	-5.60	4.67	-6.29	5.58	-4.55

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

SATILLA RIVER BASIN

02226475 SATILLA RIVER AT WALTERTOWN, GA.

LOCATION.--Lat 31°18'17", long 82°23'33", Ware County, Hydrologic Unit 03070201, at county highway bridge at Waltertown, and 6 mi north of Waycross.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
05...	0850	157	66	64	5.3	5.2	23.5	27.0	6.1	72
NOV										
08...	0940	27	73	72	6.3	6.0	18.0	24.5	7.5	79
DEC										
07...	1055	86	93	89	6.5	6.4	10.0	23.0	5.7	50
JAN										
11...	1125	2450	64	64	5.0	4.7	12.0	19.0	5.2	48
FEB										
15...	0950	1800	59	60	5.5	5.3	14.5	22.5	5.3	52
MAR										
08...	1035	1020	57	59	5.5	5.3	14.0	14.5	5.8	55
APR										
05...	0845	1850	54	54	5.1	5.2	16.0	16.0	4.9	50
MAY										
10...	0940	22	54	49	6.0	6.0	21.5	26.5	5.0	57
JUN										
07...	0945	7.4	47	47	6.1	6.1	26.0	32.0	3.7	45
JUL										
18...	0950	4.2	44	49	6.3	6.2	27.0	30.0	5.3	66
AUG										
09...	0755	12	37	42	5.9	6.0	27.5	27.0	4.8	61
SEP										
19...	1015	--	47	47	6.0	6.0	25.0	30.0	7.6	92

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
05...	140	6.0	--	90	3	0.090	<0.030	0.180	--
NOV									
08...	70	6.0	1.6	<20	6	0.080	0.050	0.180	15
DEC									
07...	110	4.0	2.8	50	9	0.020	<0.030	0.140	18
JAN									
11...	180	8.0	1.9	100	1	0.040	<0.030	0.070	34
FEB									
15...	280	8.0	0.9	490	2	0.070	0.040	0.220	30
MAR									
08...	--	6.0	1.2	20	3	0.140	0.090	0.250	28
APR									
05...	240	8.0	2.2	80	2	0.070	<0.030	0.080	41
MAY									
10...	70	7.0	--	--	4	0.130	<0.030	0.100	8.7
JUN									
07...	55	2.0	--	--	4	<0.020	0.050	0.100	7.0
JUL									
18...	70	8.0	2.8	--	5	0.040	<0.030	0.090	5.8
AUG									
09...	60	18	2.8	330	4	0.150	0.050	<0.020	10
SEP									
19...	200	4.0	1.6	--	4	0.060	<0.030	0.050	5.2

SATILLA RIVER BASIN

02226500 SATILLA RIVER NEAR WAYCROSS, GA.

LOCATION.--Lat 31°14'17", long 82°19'29", Ware-Pierce County line, Hydrologic Unit 03070201, on downstream side of pier near center span of bridge on State Highway 38, 3 mi northeast of Waycross, and 16 mi upstream from Alabama River.

DRAINAGE AREA.--1,200 mi², approximately.

PERIOD OF RECORD.--April 1937 to current year.

REVISED RECORDS.--WSP 952: 1939. WSP 1624: Drainage area. WDR GA-87-1: 1986.

GAGE.--Water-stage recorder. Datum of gage is 66.43 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 22, 1952, nonrecording gage at site 300 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records good, except those less than 500 ft³/s, which are fair. Records of chemical analyses for the water years 1968-73 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--53 years, 1,024 ft³/s, 11.59 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft³/s, Apr. 4, 1948, gage height, 22.4 ft, from floodmark and based on rating curve extended above 23,000 ft³/s and slope-conveyance study; minimum 5.6 ft³/s, Sept. 24-29, 1990.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1862, that of Apr. 4, 1948.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 15	1500	4,420	14.94	Feb. 25	0600	*4,500	*15.00

Minimum discharge, 5.6 ft³/s, Sept. 24-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	97	134	1040	1830	3800	1110	50	11	11	8.6	10
2	195	87	131	1020	1750	3460	1580	46	44	10	33	9.7
3	207	77	124	1080	1640	3070	1900	42	71	10	111	9.2
4	214	69	120	1200	1510	2590	2100	39	45	10	52	9.4
5	212	63	120	1350	1380	2080	2210	36	35	9.6	28	9.3
6	214	58	119	1580	1300	1680	2230	34	29	9.0	18	8.8
7	216	56	118	1920	1280	1410	2100	31	25	8.8	15	8.4
8	203	54	215	2470	1260	1240	1760	29	22	8.7	97	8.3
9	182	52	355	2880	1200	1100	1340	27	26	9.6	277	8.0
10	163	49	449	3050	1160	962	954	80	24	10	230	7.6
11	141	46	550	3150	1260	841	697	39	20	8.3	118	7.6
12	125	44	636	3250	1470	745	520	25	18	8.3	79	7.6
13	110	43	771	3500	1730	665	418	21	17	9.0	62	7.3
14	98	43	984	4010	1950	595	369	18	16	11	56	7.2
15	90	73	1240	4380	2120	536	333	17	16	13	50	7.2
16	83	131	1420	4330	2260	483	297	16	19	12	33	7.1
17	74	136	1460	3970	2450	466	263	15	18	11	24	6.8
18	86	123	1410	3470	2650	529	231	18	19	11	21	6.6
19	115	109	1420	2900	2960	592	204	18	16	11	19	6.5
20	124	98	1500	2260	3190	667	182	16	14	11	18	6.4
21	136	90	1580	1730	3340	743	162	27	14	12	17	6.3
22	139	88	1610	1370	3670	823	145	35	13	11	16	6.2
23	136	136	1620	1150	4140	894	128	19	16	9.9	15	6.1
24	143	138	1650	1010	4420	936	112	15	18	10	15	5.8
25	168	134	1720	931	4480	903	100	14	14	10	17	5.6
26	183	132	1800	934	4400	777	89	13	13	10	15	5.6
27	174	125	1820	1020	4280	611	79	13	13	9.6	13	5.6
28	159	121	1740	1240	4080	467	70	13	12	10	12	5.6
29	142	132	1560	1500	---	378	63	12	12	9.6	11	6.3
30	126	133	1340	1720	---	351	56	12	11	9.0	11	8.0
31	111	---	1140	1850	---	620	---	11	---	8.8	10	---
TOTAL	4632	2737	30856	67265	69160	35014	21802	801	641	312.2	1501.6	220.1
MEAN	149	91.2	995	2170	2470	1129	727	25.8	21.4	10.1	48.4	7.34
MAX	216	138	1820	4380	4480	3800	2230	80	71	13	277	10
MIN	74	43	118	931	1160	351	56	11	11	8.3	8.6	5.6
CFSM	.12	.08	.83	1.81	2.06	.94	.61	.02	.02	.008	.04	.006
IN.	.14	.08	.96	2.09	2.14	1.09	.68	.02	.02	.01	.05	.01

CAL YR 1989	TOTAL	103108.0	MEAN	282	MAX	1820	MIN	20	CFSM	.24	IN	3.20
WTR YR 1990	TOTAL	234941.9	MEAN	644	MAX	4480	MIN	5.6	CFSM	.54	IN	7.28

SATILLA RIVER BASIN

02226582 SATILLA RIVER NEAR HOBOKEN, GA.

LOCATION.--Lat 31°13'00", long 82°09'45", Brantley-Pierce County line, Hydrologic Unit 03070201, at bridge on State Highway 121, 3 mi northeast of Hoboken.

DRAINAGE AREA.--1,350 mi², approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 05...	1115	300	59	67	5.9	5.7	24.5	30.5	6.2	74
NOV 08...	1135	78	110	109	6.7	6.5	16.0	23.5	7.5	76
DEC 07...	1230	123	108	104	6.7	6.6	12.0	24.5	5.9	55
JAN 11...	1315	3000	64	64	5.3	4.7	12.5	24.5	4.8	45
FEB 15...	1140	1900	57	57	5.5	5.3	15.5	26.5	5.3	53
MAR 08...	1225	1700	57	58	5.4	5.2	14.0	17.5	4.9	47
APR 05...	1215	1850	53	52	5.3	5.2	17.0	27.5	4.9	51
MAY 10...	1210	84	94	84	6.6	6.5	21.5	31.0	5.1	58
JUN 07...	1215	46	99	98	6.5	6.5	26.0	33.0	3.9	48
JUL 18...	1215	19	177	174	7.1	7.2	28.0	36.0	6.3	80
AUG 09...	1030	59	103	102	6.0	6.4	26.5	36.0	5.8	72
SEP 19...	1220	--	166	167	7.0	7.1	25.0	34.5	7.3	88

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 05...	130	5.0	--	--	80	5	2
NOV 08...	120	5.0	--	1.3	20	13	<1
DEC 07...	90	4.0	--	2.4	<20	13	<1
JAN 11...	160	6.0	--	1.9	170	2	2
FEB 15...	300	6.0	--	1.0	230	2	2
MAR 08...	--	5.0	--	1.1	230	3	11
APR 05...	280	9.0	--	2.3	80	2	3
MAY 10...	90	6.0	--	--	--	10	6
JUN 07...	70	2.0	--	--	--	8	14
JUL 18...	60	5.0	21	1.4	--	25	5
AUG 09...	100	6.0	46	1.5	330	8	6
SEP 19...	40	1.0	27	0.9	--	24	1

SATILLA RIVER BASIN

02226582 SATILLA RIVER NEAR HOBOKEN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 05...	0.240	<0.030	--	--	--	0.270	--
NOV 08...	0.810	0.040	--	--	--	0.340	14
DEC 07...	0.240	<0.030	--	--	--	0.230	2.1
JAN 11...	0.040	<0.030	--	--	--	0.080	24
FEB 15...	0.060	0.040	--	--	--	0.220	25
MAR 08...	0.120	0.120	--	--	--	0.210	31
APR 05...	0.070	0.030	--	--	--	0.200	45
MAY 10...	0.370	0.060	--	--	--	0.240	12
JUN 07...	0.680	0.040	--	--	--	0.140	11
JUL 18...	1.34	0.070	0.53	0.60	1.9	0.410	8.1
AUG 09...	0.400	0.070	0.63	0.70	1.1	0.190	17
SEP 19...	0.820	0.030	0.37	0.40	1.2	0.300	6.6

SATILLA RIVER BASIN

02227500 LITTLE SATILLA RIVER NEAR OFFERMAN, GA.

LOCATION.--Lat 31°27'04", long 82°03'17", Pierce-Wayne County line, Hydrologic Unit 03070202, on downstream end of right bank pier of steel truss span of Seaboard Coast Line Railroad bridge, 1,500 ft downstream from bridge on State Highway 38, 4 mi northeast of Offerman, and 16 mi upstream from mouth.

DRAINAGE AREA.--646 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 58.00 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 8, 1952, water-stage recorder at site 1,500 ft upstream and Nov. 8, 1952, to Sept. 30, 1975, water-stage recorder at present site at datum 1.00 ft higher.

REMARKS.--No estimated daily discharges. Records good except those less than 20 ft³/s and greater than or equal to 10 ft³/s, which are fair, and those less than 10 ft³/s, which are poor.

AVERAGE DISCHARGE.--39 years, 516 ft³/s, 10.85 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,200 ft³/s Sept. 29, 1953, gage height, 14.5 ft, present datum; no flow Oct. 10 to Nov. 14, 1954, and Sept. 23-30, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 21	0300	1,600	8.88	Jan. 12	1500	*3,890	*10.42
Dec. 25	0100	1,700	8.98	Feb. 23	1900	2,820	9.85

No flow, Sept. 23-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	113	124	794	1160	1670	652	2.5	.55	.13	.01	.26
2	225	97	112	734	1050	1390	684	2.2	.72	.08	.13	.24
3	286	80	104	732	924	1130	584	2.1	1.2	.06	1.4	.17
4	280	73	99	742	818	924	504	1.9	.78	.05	.64	.12
5	242	67	98	795	736	762	522	1.6	.60	.04	.34	.09
6	232	61	93	928	691	638	525	1.3	.51	.03	.46	.08
7	264	58	88	1130	675	550	455	1.1	.48	.02	1.7	.06
8	269	61	170	1870	682	490	372	1.0	.54	.02	1.1	.05
9	211	62	514	2670	643	434	279	1.0	.89	.01	2.5	.05
10	146	63	815	3020	650	385	200	2.2	.72	.01	4.5	.05
11	103	59	1040	3200	975	342	152	1.5	.73	.01	4.4	.05
12	75	53	1060	3800	1290	306	121	1.2	.48	.01	2.5	.07
13	59	49	1250	3530	1620	271	100	1.2	.39	.80	1.6	.09
14	51	44	1440	2870	1730	245	84	.93	.33	.77	1.2	.07
15	44	40	1520	2320	1750	221	71	.82	.32	.44	.90	.08
16	35	38	1470	1870	1730	199	56	.73	.40	.38	.74	.06
17	30	37	1370	1490	1710	203	43	.80	.39	.73	.68	.04
18	234	53	1310	1190	1670	312	33	1.5	.33	.52	.54	.02
19	1030	66	1270	962	1860	406	27	.84	.27	.38	.46	.02
20	1450	68	1240	796	2180	435	23	.71	.21	.25	.38	.02
21	1510	66	1230	679	2470	392	19	.73	.17	.20	.33	.01
22	1170	60	1320	596	2650	351	16	1.1	.18	.18	.32	.01
23	965	88	1440	539	2800	329	13	.91	.30	.12	.32	.00
24	857	139	1630	497	2760	289	9.7	1.4	.31	.09	.29	.00
25	656	171	1690	467	2630	241	7.7	.96	.19	.06	.24	.00
26	455	169	1670	522	2430	196	6.2	2.8	.11	.04	.22	.00
27	316	161	1610	631	2210	160	4.8	1.2	.09	.02	.22	.00
28	236	149	1430	773	1940	137	4.0	.74	.11	.02	.24	.00
29	185	141	1200	893	---	123	3.4	.70	.32	.01	.22	.00
30	150	132	995	1060	---	121	2.9	.57	.24	.01	.38	.00
31	129	---	853	1180	---	411	---	.54	---	.01	.36	---
TOTAL	12055	2518	30255	43280	44434	14063	5573.7	38.78	12.86	5.50	29.32	1.71
MEAN	389	83.9	976	1396	1587	454	186	1.25	.43	.18	.95	.057
MAX	1510	171	1690	3800	2800	1670	684	2.8	1.2	.80	4.5	.26
MIN	30	37	88	467	643	121	2.9	.54	.09	.01	.01	.00
CFSM	.60	.13	1.51	2.16	2.46	.70	.29	.002	.001	.000	.001	.000
IN.	.69	.14	1.74	2.49	2.56	.81	.32	.00	.00	.00	.00	.00

CAL YR 1989	TOTAL	103243.18	MEAN	283	MAX	3160	MIN	.48	CFSM	.44	IN	5.95
WTR YR 1990	TOTAL	152266.87	MEAN	417	MAX	3800	MIN	.00	CFSM	.65	IN	8.77

SATILLA RIVER BASIN

02228000 SATILLA RIVER AT ATKINSON, GA.
(National Stream-Quality Accounting Network station)

LOCATION.--Lat 31°13'16", long 81°52'03", Brantley County, Hydrologic Unit 03070201, on left bank piling 25 ft upstream from bridge on U.S. Highway 84, 400 ft downstream from Seaboard Coast Line Railroad bridge, and 1 mi west of Atkinson.
 DRAINAGE AREA.--2,790 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1930 to current year. Monthly discharge only for March 1930, published in WSP 1304.

REVISED RECORDS.--WSP 1504: 1932. WSP 1624: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 14.79 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 6, 1933, and Nov. 21, 1961, to Sept. 30, 1964, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--60 years, 2,240 ft³/s, 10.90 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,100 ft³/s, Apr. 6, 1948, gage height, 23.9 ft; minimum daily, 15 ft³/s, Sept. 26-28, 1990.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1862, 27.2 ft in September 1929, from information by Georgia Department of Transportation; discharge, 110,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 19	1000	7,970	14.26	Mar. 1	1300	*8,810	*14.62

Minimum daily discharge, 15 ft³/s, Sept. 26-28.

SATILLA RIVER BASIN

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	587	626	423	4030	2530	8780	1460	228	73	35	22	44
2	640	549	430	3930	2670	8660	1620	210	71	36	25	41
3	684	485	430	3720	2890	8380	1810	196	70	38	38	39
4	739	433	416	3420	3140	7970	2030	183	68	35	32	37
5	783	389	396	3130	3330	7480	2230	173	70	32	28	35
6	785	355	376	2890	3390	6950	2370	163	88	31	30	34
7	741	327	360	2780	3340	6320	2450	154	97	30	55	32
8	693	303	364	2850	3210	5580	2530	146	90	29	69	31
9	659	285	422	3030	3040	4830	2600	141	83	27	67	33
10	632	271	584	3290	2930	4090	2640	145	75	27	64	30
11	587	261	838	3630	2950	3470	2620	141	70	27	60	29
12	526	253	1110	4160	2970	2980	2500	135	66	30	83	27
13	466	243	1380	4960	3000	2580	2320	142	64	37	150	26
14	413	233	1620	5820	3100	2280	2060	144	62	38	177	25
15	369	224	1840	6570	3310	2030	1740	132	60	33	170	25
16	334	214	2020	7170	3570	1800	1400	123	59	35	156	23
17	303	207	2190	7610	3920	1610	1110	117	57	39	142	22
18	287	204	2380	7850	4310	1470	896	112	54	36	124	21
19	472	212	2660	7920	4800	1360	750	107	51	36	108	20
20	915	233	2990	7810	5280	1320	656	102	49	35	97	20
21	1270	251	3320	7510	5670	1330	578	100	46	35	86	19
22	1550	260	3580	6990	6080	1370	515	101	44	32	76	19
23	1750	274	3800	6270	6600	1390	463	97	42	29	68	18
24	1850	275	3960	5430	7130	1370	420	96	40	28	65	17
25	1860	296	4050	4600	7590	1350	381	101	38	28	58	16
26	1790	353	4070	3910	7960	1330	346	102	42	26	53	15
27	1610	404	4050	3340	8340	1310	314	93	42	25	52	15
28	1360	427	4020	2910	8650	1290	289	87	40	24	53	15
29	1080	428	4010	2610	---	1280	269	84	38	23	51	16
30	867	422	4010	2470	---	1290	247	80	36	22	48	17
31	726	---	4030	2460	---	1350	---	76	---	22	46	---
TOTAL	27328	9697	66129	145070	125700	104600	41614	4011	1785	960	2353	761
MEAN	882	323	2133	4680	4489	3374	1387	129	59.5	31.0	75.9	25.4
MAX	1860	626	4070	7920	8650	8780	2640	228	97	39	177	44
MIN	287	204	360	2460	2530	1280	247	76	36	22	22	15
CFSM	.32	.12	.77	1.68	1.61	1.21	.50	.05	.02	.01	.03	.009
IN.	.36	.13	.88	1.93	1.68	1.39	.55	.05	.02	.01	.03	.01
CAL YR 1989	TOTAL	299091	MEAN	819	MAX	5370	MIN	48	CFSM	.29	IN	3.99
WTR YR 1990	TOTAL	530008	MEAN	1452	MAX	8780	MIN	15	CFSM	.52	IN	7.07

SATILLA RIVER BASIN

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1981.

WATER TEMPERATURES: November 1974 to September 1981.

REMARKS.--Laboratory analyses with the analyzing agency codes 80020 and 84213 are performed by the U.S. Geological Survey. Laboratory analyses with the analyzing agency code 81341 are performed by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, Dissolved Oxygen, and Total Alkalinity are by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 159 microsiemens Nov. 7, 1978; minimum recorded, 30 microsiemens Mar. 16, 1977, Sept. 28, 1979, Mar. 20, 21, 1980.

WATER TEMPERATURES: Maximum, 33.5°C July 11-12, 1977, Aug. 4, 1980; minimum recorded, 4.0°C Jan. 13, 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)
OCT							
25...	1430	80020	1870	57	59	4.7	4.9
25...	1440	81341	1870	57	57	4.7	4.9
JAN							
23...	1400	80020	6210	57	61	5.0	5.8
23...	1410	81341	6210	57	60	5.0	4.8
MAY							
15...	1400	80020	131	75	78	6.7	7.0
15...	1410	81341	131	75	79	6.7	6.5
AUG							
21...	1240	80020	87	90	90	6.6	7.3
21...	1250	81341	87	90	92	6.6	6.5

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	ALKA- LINITY WAT.DIS FET LAB CACO3 (MG/L)
OCT									
25...	80020	15.0	21.0	7.4	72	0	0	--	1.0
25...	81341	15.0	21.0	7.4	72	--	--	2	--
JAN									
23...	80020	14.0	19.5	6.7	64	0	0	--	2.0
23...	81341	14.0	19.5	6.7	64	--	--	1	--
MAY									
15...	80020	28.0	31.0	7.2	91	8	6	--	8.0
15...	81341	28.0	31.0	7.2	91	--	--	4	--
AUG									
21...	80020	31.0	34.0	6.5	87	9	7	--	7.3
21...	81341	31.0	34.0	6.5	87	--	--	6	--

SATILLA RIVER BASIN

02228000 SATILLA RIVER AT ATKINSON, GA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARB DISSOLVED LAB MG/L AS CACO3
OCT 25...	80020	--	2.9	--	--	54	65	11	10
JAN 23...	81341	140	7.0	1.8	80	--	--	--	--
MAY 15...	80020	--	3.0	--	--	K19	26	11	9
AUG 21...	81341	140	5.0	1.3	<20	--	--	--	--
OCT 25...	80020	--	3.1	--	--	K8	K6	16	8
JAN 23...	81341	110	4.0	1.0	--	--	--	--	--
MAY 15...	80020	--	4.5	--	--	K2	K250	18	11
AUG 21...	81341	110	6.0	0.6	20	--	--	--	--

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 25...	80020	2.0	1.4	4.8	45	0.6	1.7
JAN 23...	80020	2.1	1.5	4.4	40	0.6	2.5
MAY 15...	80020	3.2	1.9	8.3	51	0.9	1.2
AUG 21...	80020	3.6	2.2	8.4	47	0.9	2.1

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 25...	80020	10	0.10	9.1	96	34	485	0.13
JAN 23...	80020	10	<0.10	7.5	89	36	1490	0.12
MAY 15...	80020	11	<0.10	7.6	62	48	21.9	0.08
AUG 21...	80020	12	<0.10	5.4	72	56	16.9	0.10

SATILLA RIVER BASIN

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 25...	80020	0.020	--	<0.100	0.040	0.020	1.1	1.1	0.060	0.020	0.030	--
JAN 25...	81341	--	0.050	--	<0.030	--	--	--	0.030	--	--	31
JAN 23...	80020	<0.010	--	<0.100	0.040	0.040	0.76	0.80	0.030	0.010	0.020	--
MAY 23...	81341	--	<0.020	--	<0.030	--	--	--	<0.020	--	--	26
MAY 15...	80020	<0.010	0.500	0.570	0.050	0.060	0.45	0.50	0.030	0.010	0.040	8.8
AUG 15...	81341	--	0.210	--	<0.030	--	--	--	0.100	--	--	14
AUG 21...	80020	<0.010	--	0.200	0.040	0.040	0.76	0.80	0.180	0.100	0.060	--
AUG 21...	81341	--	0.190	--	<0.030	--	--	--	0.190	--	--	16

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
OCT 25...	80020	800	<1	25	<0.5	<1.0	2	<3	1	1000	2
JAN 23...	80020	710	<1	24	<0.5	<1.0	1	4	<10	700	<10
MAY 15...	80020	160	<1	19	<0.5	<1.0	1	5	1	700	1
AUG 21...	80020	120	1	26	<0.5	<1.0	1	<3	2	500	<1

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 25...	80020	<4	41	<0.1	<10	1	<1	<1.0	15	<6	20
JAN 23...	80020	<4	51	0.5	<10	<10	<1	<1.0	14	<6	25
MAY 15...	80020	<4	10	--	<10	1	<1	<1.0	21	<6	5
AUG 21...	80020	<4	42	<0.1	<10	1	<1	<1.0	31	<6	16

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 25...	1435	84213	1870	15.0	8	40	92
JAN 23...	1405	84213	6210	14.0	7	117	89
MAY 15...	1405	84213	131	28.0	17	6.0	65
AUG 21...	1245	84213	87	31.0	11	2.6	72

CROOKED RIVER BASIN

02228300 CUMBERLAND SOUND AT DUNGENESS DOCK NEAR ST MARYS, GA.

LOCATION.—Lat 30°45'14", long 81°28'27", Camden County, Hydrologic Unit 03070203, at north side of Dungeness Dock, on Cumberland Island, 4.7 mi east-northeast of St Marys.

PERIOD OF RECORD.—October 1981 to December 1982, October 1988 to September 1990.

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

EXTREMES FOR CURRENT PERIOD.—Water year 1982: Maximum elevation recorded, 6.54 ft, Nov. 13; minimum elevation recorded, -5.08 ft, Jan. 11.

October 1982 to December 1982: Maximum elevation recorded, 5.14 ft, Nov. 3; minimum elevation recorded, -4.35 ft, Dec. 2.

Water Year 1989: Maximum elevation recorded, 5.97 ft, Mar. 9; minimum elevation recorded, -4.93 ft, Dec. 22.

Water Year 1990: Maximum elevation recorded, 5.76 ft, May 24; minimum elevation recorded, -4.28 ft, Nov. 13 and Feb. 24.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3.35	-2.62	4.69	-0.65	3.63	-1.98	3.40	-2.72	2.61	-3.46	3.93	-2.59
2	2.64	-2.90	4.15	-1.23	3.08	-2.47	3.43	-2.54	3.06	-3.13	3.62	-3.07
3	3.51	-1.27	3.81	-1.25	2.78	-2.54	3.44	-2.01	3.43	-4.22	3.67	-2.97
4	3.08	-1.70	3.49	-1.56	2.18	-3.07	3.40	-3.21	3.14	-4.19	4.11	-2.55
5	2.67	-1.97	3.59	-1.52	3.35	-2.58	3.79	-2.70	3.65	-4.16	4.19	-3.34
6	2.54	-2.26	3.61	-2.02	3.39	-2.82	3.78	-3.25	3.99	-4.81	4.48	-3.07
7	2.32	-2.72	3.98	-2.22	3.91	-3.68	4.06	-4.86	3.95	-4.70	4.06	---
8	3.19	-1.97	4.20	-2.54	3.71	-4.32	4.74	-3.39	4.41	-4.23	4.10	---
9	3.58	-2.34	4.40	-2.79	4.31	-4.39	4.98	-5.06	4.05	-4.09	4.09	---
10	4.00	-2.67	5.04	-3.16	---	---	3.63	-2.75	3.63	-4.46	4.09	---
11	4.48	-2.55	5.87	-2.52	---	---	3.62	-5.08	3.71	-3.63	3.74	---
12	5.11	-2.44	6.45	-2.55	5.05	-4.36	3.81	-3.60	3.38	-2.65	3.65	---
13	5.81	-1.93	6.54	-2.14	5.22	-3.91	3.95	-2.67	3.00	-2.83	3.14	---
14	6.22	-2.06	6.10	-2.39	5.05	-3.30	3.85	-4.93	2.52	-2.57	3.08	---
15	5.95	-2.35	5.65	-2.37	3.91	-4.43	2.62	-3.60	2.15	-2.83	2.89	---
16	5.39	-2.87	5.11	-2.37	3.41	-3.81	2.52	-3.23	2.13	-2.48	2.76	---
17	4.82	-2.87	4.17	-2.82	3.31	-3.14	2.44	-2.69	2.18	-2.33	2.37	---
18	4.37	-2.86	4.11	-2.04	2.80	-3.31	2.42	-3.04	2.71	-2.08	---	---
19	3.97	-3.30	3.78	-2.31	2.70	-2.68	2.37	-3.34	3.07	-2.64	---	---
20	3.94	-2.41	3.15	-3.18	2.93	-2.91	2.76	-3.17	3.14	-2.55	2.45	-2.58
21	3.86	-2.36	3.15	-2.68	3.05	-3.27	3.35	-3.19	3.30	-3.39	2.89	-2.44
22	3.59	-2.60	3.67	-2.47	2.85	-3.50	3.65	-2.56	3.96	-2.91	---	---
23	3.55	-2.73	3.95	-2.46	2.82	-3.92	2.98	-3.90	3.93	-3.70	---	---
24	4.21	-1.96	3.66	-2.99	2.82	-3.75	3.22	-4.03	3.58	-3.23	---	---
25	4.33	-1.85	4.16	-2.41	3.20	-3.08	2.85	-4.39	4.46	-2.80	---	---
26	4.24	-2.35	4.08	-2.52	3.94	-2.57	3.72	-3.30	4.79	-1.84	---	---
27	3.68	-2.80	3.82	-2.69	3.92	-2.76	---	---	4.18	-3.24	---	---
28	3.97	-2.91	3.35	-2.88	3.88	-2.65	---	---	3.94	-2.96	---	---
29	4.28	-2.33	3.65	-2.46	3.60	-2.74	3.12	-3.72	---	---	---	---
30	4.81	-1.04	3.73	-2.08	4.34	-1.40	3.04	-3.44	---	---	---	---
31	4.89	-0.56	---	---	4.05	-2.47	2.99	-3.50	---	---	---	---
MONTH	6.22	-3.30	6.54	-3.18	---	---	---	---	4.79	-4.81	---	---

CROOKED RIVER BASIN

02228300 CUMBERLAND SOUND AT DUNGENESS DOCK NEAR ST MARYS, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	--	--	4.35	--	3.88	-2.59	3.48	-2.85	3.18	-3.14	3.77	-2.51
2	--	--	3.91	--	3.95	-2.23	3.71	-2.34	3.83	-2.91	3.81	-2.87
3	--	--	3.36	--	4.23	--	--	-2.81	4.10	-2.41	3.63	-3.26
4	--	--	--	--	4.30	--	--	--	4.22	-2.24	3.88	-3.71
5	--	--	--	--	4.26	-2.51	--	--	4.01	-2.56	4.42	-2.78
6	--	--	--	--	4.47	-2.38	--	--	3.70	-2.71	4.37	-2.23
7	--	--	--	--	4.34	-2.24	--	--	3.71	-2.98	4.33	-2.35
8	3.96	-3.44	--	--	3.92	-2.08	3.42	--	3.58	-2.97	4.60	-1.82
9	3.81	-3.49	--	--	4.00	-2.46	3.18	-3.01	3.29	-2.92	4.52	-1.73
10	3.72	-3.38	--	--	3.98	--	3.23	-3.00	3.30	-2.98	4.22	-1.96
11	3.61	-2.76	--	--	4.00	--	3.16	-2.96	3.50	-3.06	4.28	-2.29
12	3.14	-3.04	--	--	4.36	--	3.13	-3.05	3.65	-3.13	4.26	-2.78
13	3.11	-2.81	--	--	3.93	-1.85	3.08	-3.06	4.09	-3.10	4.66	-2.76
14	2.63	-2.45	--	--	3.60	-2.28	3.47	-2.85	4.63	-2.86	4.72	-3.08
15	2.64	-1.97	--	--	3.73	-2.03	3.78	-2.87	4.92	-2.78	4.87	-3.40
16	3.05	-1.75	--	--	3.85	-2.82	4.28	-2.95	4.98	-3.26	4.74	-3.47
17	2.74	-2.07	--	--	4.12	-3.35	4.81	-2.99	5.12	-3.71	4.81	-3.22
18	2.58	-2.42	--	--	4.14	-2.95	4.71	-3.79	5.26	-3.46	4.48	-3.06
19	--	--	--	--	4.56	--	4.85	-4.22	4.84	-3.94	4.26	-3.13
20	--	--	4.09	--	5.01	--	4.70	-4.44	4.13	-4.25	4.01	-3.11
21	--	--	4.57	--	5.00	--	4.96	-4.39	3.48	-4.19	3.88	-2.44
22	--	--	5.00	-4.05	5.06	--	4.71	-3.79	3.71	-4.16	3.82	-2.06
23	--	--	5.10	-4.06	4.79	--	4.24	-3.93	3.63	-3.15	3.77	-1.61
24	--	--	4.99	-4.18	4.84	--	4.00	-3.76	3.06	-3.23	3.94	-1.01
25	--	--	5.04	-3.55	4.67	-3.03	4.02	-3.27	2.86	-3.07	3.85	-0.92
26	3.80	-3.76	4.99	-3.10	4.52	-2.95	3.80	-2.79	2.98	-2.81	3.78	-1.02
27	4.19	-3.61	4.96	-2.49	3.80	-3.12	3.61	-2.24	3.24	-1.97	3.15	-1.80
28	4.20	--	4.60	-2.47	3.36	-3.37	3.32	-2.36	2.94	-2.41	3.64	-1.78
29	4.73	--	4.13	-2.65	3.07	-3.27	3.08	-2.90	3.86	-1.97	4.41	-1.21
30	4.84	--	3.80	-2.82	3.24	-3.36	2.87	-2.87	3.77	-1.86	4.80	-1.30
31	--	--	3.65	-2.73	--	--	2.93	-3.16	3.70	-2.23	--	--
MONTH	--	--	--	--	5.06	--	--	--	5.26	-4.25	4.87	-3.71

CROOKED RIVER BASIN

02228300 CUMBERLAND SOUND AT DUNGENESS DOCK NEAR ST MARYS, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.50	-1.99	4.71	-3.31	4.80	-4.27						
2	4.53	-2.17	4.98	-3.25	4.77	-4.35						
3	4.75	—	5.14	-3.25	4.75	-4.04						
4	—	—	4.82	-3.18	4.71	-3.60						
5	—	—	4.41	-3.46	4.55	-3.12						
6	—	—	4.52	-2.59	3.92	-2.94						
7	—	—	4.79	-1.82	3.99	-2.26						
8	—	—	4.54	-1.50	4.37	-1.53						
9	—	—	4.38	-2.02	—	—						
10	—	—	4.21	-2.14	—	—						
11	—	—	4.17	-2.45	—	—						
12	—	—	4.14	-2.67	—	—						
13	4.52	—	3.99	-3.07	—	—						
14	4.63	-2.90	4.87	-2.15	—	—						
15	4.61	-2.74	4.44	-2.56	—	—						
16	4.52	-2.92	5.07	-1.65	—	—						
17	4.95	-2.54	4.87	-1.44	—	—						
18	4.77	-2.25	4.62	-1.51	—	—						
19	4.41	-2.07	4.56	-1.07	—	—						
20	4.25	-1.92	4.42	-0.87	—	—						
21	3.81	-1.80	4.09	-0.72	—	—						
22	3.60	-1.72	3.95	-0.82	—	—						
23	4.67	.22	3.76	-0.96	—	—						
24	4.50	.22	3.11	-1.91	—	—						
25	3.59	-1.11	3.70	-1.00	—	—						
26	3.37	-1.51	3.86	-2.51	—	—						
27	3.69	-1.11	3.63	-2.79	—	—						
28	4.26	-1.31	4.27	-3.13	—	—						
29	4.44	-1.68	4.28	-3.47	—	—						
30	4.39	-2.17	4.46	-4.13	—	—						
31	4.44	-2.85	—	—	—	—						
MONTH	—	—	5.14	-4.13	—	—						

CROOKED RIVER BASIN

02228300 CUMBERLAND SOUND AT DUNGENESS DOCK NEAR ST MARYS, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.45	-1.63	3.97	-1.01	---	---	1.84	-3.37	2.58	-2.82	2.61	-1.52
2	3.99	-1.56	3.15	-1.75	---	---	1.91	-2.96	2.77	-3.31	3.49	-0.94
3	3.67	-1.40	3.19	-1.48	---	---	2.36	-4.08	3.10	-3.77	4.02	-2.39
4	3.71	-1.46	3.25	-1.47	---	---	---	---	3.41	-3.77	3.74	-3.00
5	4.06	-0.83	3.25	-2.65	---	---	2.95	-3.97	4.44	-3.64	4.05	-3.28
6	4.32	-0.76	3.16	-3.05	---	---	3.26	-4.11	4.70	-3.77	4.25	-3.94
7	4.51	-0.49	3.01	-3.17	---	---	2.92	-4.75	4.55	-4.21	4.68	-4.22
8	4.67	-0.60	3.28	-3.27	---	---	3.26	-4.72	4.14	-4.49	5.34	-3.03
9	4.51	-1.10	---	---	---	-3.45	3.33	-4.92	4.03	-4.04	5.97	-2.99
10	4.59	-1.46	---	---	---	-3.29	3.92	-3.96	3.89	-3.84	5.77	-2.52
11	4.27	-1.81	---	---	4.64	-2.94	4.74	-3.81	3.79	-3.73	5.65	-2.63
12	3.95	-2.53	---	---	5.07	-1.96	---	-3.37	3.14	-3.55	5.17	-2.80
13	4.55	-2.22	---	---	4.35	-3.10	3.82	-3.74	3.19	-3.44	4.22	-2.13
14	4.23	-1.84	---	---	---	-3.05	4.12	-2.34	2.87	-3.47	3.79	-2.29
15	4.07	-1.62	---	---	---	-3.22	3.84	-3.44	2.60	-3.45	3.18	-2.77
16	3.91	-1.71	---	---	---	-2.81	3.19	-3.40	2.80	-3.47	2.81	-2.69
17	3.75	-1.62	---	---	---	-3.69	3.76	-2.83	3.68	-3.41	3.21	-2.40
18	3.89	-1.66	---	---	---	-3.55	3.88	-3.60	4.20	-1.50	3.32	-2.64
19	3.69	-2.04	---	---	3.36	-3.90	3.61	-3.55	4.17	-2.17	3.49	-2.67
20	5.00	-1.29	---	---	3.34	-4.44	3.75	-3.80	4.15	-2.54	4.00	-2.31
21	4.56	-2.69	---	---	2.95	-4.48	4.49	-3.64	3.72	-3.17	3.38	-3.17
22	4.55	-3.00	---	---	---	-4.93	5.24	-1.90	3.30	-3.37	4.27	-3.37
23	4.95	-3.20	---	---	---	-4.52	4.77	-1.71	2.64	-3.79	4.44	-1.49
24	5.12	-3.34	---	---	---	-4.40	4.38	-2.33	2.88	-3.66	3.78	-2.59
25	5.27	-4.01	---	---	2.72	-4.47	3.67	-2.67	3.14	-2.59	3.54	-2.66
26	5.04	-3.54	---	---	3.01	-3.83	3.10	-2.67	3.12	-2.73	3.40	-2.50
27	5.05	-3.22	---	---	3.01	-3.29	2.84	-2.58	2.29	-2.39	3.18	-2.52
28	4.62	-2.62	---	---	2.14	-3.98	2.97	-1.76	2.50	-2.57	3.08	-2.50
29	4.19	-2.42	---	---	1.78	-3.27	3.03	-1.92	---	---	2.97	-2.23
30	4.50	-1.36	---	---	1.90	-2.57	2.89	-2.12	---	---	2.83	-2.68
31	---	-0.62	---	---	1.79	-2.81	2.30	-2.30	---	---	2.53	-3.16
MONTH	---	-4.01	---	---	---	---	---	---	4.70	-4.49	5.97	-4.22

CROOKED RIVER BASIN

02228300 CUMBERLAND SOUND AT DUNGENESS DOCK NEAR ST MARYS, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.85	-2.99	3.78	-3.38	4.46	-3.88	5.32	-2.46	3.68	-3.94	3.87	-2.48
2	3.28	-3.18	3.98	-4.06	4.49	-4.23	5.08	-3.02	3.99	-3.38	3.55	-2.35
3	3.67	-3.82	4.68	-4.04	4.60	-4.22	4.61	-3.34	4.20	-3.04	3.51	-2.83
4	4.09	-4.20	5.19	-3.79	4.60	-4.05	4.41	-3.14	3.70	-2.40	4.00	-1.88
5	4.46	-4.28	5.10	-4.19	4.08	-3.88	3.94	-2.92	3.15	-2.79	3.55	-1.73
6	4.34	-4.32	4.84	-4.08	3.96	-3.83	3.23	-3.29	2.98	-3.01	3.67	-1.19
7	3.95	-4.43	4.61	-3.93	3.69	-3.29	2.85	-3.35	3.14	-2.35	3.97	-0.91
8	3.93	-4.38	4.44	-3.07	3.61	-3.17	2.70	-3.40	3.29	-1.97	4.16	-0.37
9	4.15	-4.20	4.04	-2.93	3.34	-3.34	2.55	-2.94	3.65	-1.22	3.94	-0.91
10	4.01	-2.94	3.56	-3.16	2.49	-3.34	2.74	-2.45	3.71	-1.20	4.09	-1.11
11	4.15	-1.98	2.93	-2.49	2.51	-2.84	2.71	-2.60	3.55	-1.39	4.05	-1.65
12	4.02	-1.32	3.43	-2.10	3.00	-2.44	2.86	-2.59	3.66	-1.73	4.56	-2.07
13	3.76	-1.70	2.93	-2.44	2.87	-2.67	2.92	-2.73	3.79	-1.92	5.01	-2.25
14	3.23	-1.90	3.07	-2.44	2.89	-3.06	2.92	-3.00	4.29	-2.43	4.87	-2.88
15	3.26	-2.17	3.18	-2.42	2.96	-3.14	3.47	-2.64	4.45	-2.96	4.70	-3.42
16	3.33	-2.34	3.28	-2.47	3.20	-3.04	3.66	-2.92	4.48	-3.40	4.61	-3.92
17	3.19	-2.68	3.57	-2.53	3.50	-3.25	3.80	-3.52	4.60	-3.65	4.72	-4.00
18	3.40	-2.72	3.86	-2.61	3.70	-3.07	4.26	-3.67	4.41	-3.59	5.07	-3.79
19	3.44	-3.07	4.04	-2.65	4.02	-3.22	4.35	-3.52	4.36	-3.74	5.08	-2.56
20	4.26	-2.95	4.11	-2.63	4.06	-3.06	4.35	-3.50	4.53	-3.44	4.53	-2.52
21	4.60	-1.98	3.64	-2.79	3.85	-3.21	4.26	-3.44	4.39	-3.23	4.73	-1.83
22	4.22	-2.16	3.84	-2.95	3.81	-3.31	3.96	-3.18	4.07	-3.34	3.67	-2.44
23	3.53	-2.92	3.26	-2.85	3.81	-3.34	3.94	-3.56	3.68	-3.40	3.56	-2.52
24	3.58	-2.75	3.50	-3.38	3.82	-3.24	3.87	-3.45	3.56	-3.41	4.72	-0.83
25	3.20	-2.60	3.57	-2.90	3.50	-3.41	3.88	-3.41	3.90	-2.96	4.57	-1.19
26	3.12	-2.63	3.60	-2.90	3.95	-3.03	4.17	-2.86	4.33	-2.05	3.93	-2.19
27	3.18	-2.48	3.37	-3.18	3.95	-3.33	3.94	-3.04	4.34	-2.40	5.10	-1.98
28	3.27	-2.30	3.99	-2.92	4.18	-3.56	3.69	-3.59	4.21	-2.58	4.92	-1.07
29	3.44	-2.35	4.41	-2.06	4.47	-3.49	3.90	-3.61	4.36	-2.73	4.56	-1.81
30	3.47	-2.82	4.41	-3.08	5.27	-2.68	4.28	-3.37	4.12	-2.62	4.13	-2.03
31	---	---	4.35	-3.58	---	---	4.01	-3.55	3.96	-2.71	---	---
MONTH	4.60	-4.43	5.19	-4.19	5.27	-4.23	5.32	-3.67	4.60	-3.94	5.10	-4.00

CROOKED RIVER BASIN

02228300 CUMBERLAND SOUND AT DUNGENESS DOCK NEAR ST MARYS, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.06	-2.03	3.88	-2.21	3.74	-2.64	2.77	-3.70	3.59	-3.29	4.71	-3.01
2	3.57	-2.37	3.91	-2.06	3.60	-2.70	3.36	-3.28	3.48	-3.22	4.75	-2.80
3	3.69	-2.28	3.94	-1.39	2.82	-3.31	3.03	-3.59	3.13	-3.26	4.43	-2.77
4	3.64	-1.73	3.73	-1.27	3.18	-2.89	3.08	-3.51	3.02	-3.66	3.96	-1.96
5	3.96	-0.99	4.07	-1.14	2.90	-3.36	2.88	-3.65	2.93	-2.57	4.14	-1.64
6	3.34	-1.34	3.73	-1.78	2.93	-3.26	3.28	-3.56	4.01	-3.26	4.33	-2.17
7	2.97	-2.02	3.30	-2.33	2.85	-3.49	3.98	-3.21	4.20	-3.28	4.30	-1.39
8	3.29	-2.09	3.52	-2.64	3.77	-2.75	4.45	-4.16	4.16	-3.77	5.13	-1.79
9	4.41	-0.62	3.71	-3.63	4.92	-3.63	4.05	-4.17	4.15	-3.71	4.47	-2.68
10	4.35	-1.54	4.14	-3.93	4.72	-3.40	3.86	-4.20	3.87	-4.00	3.71	-3.42
11	4.65	-2.04	4.29	-3.85	4.86	-3.72	4.12	-4.22	4.07	-4.06	3.85	-3.39
12	4.64	-2.53	4.67	-4.15	4.90	-4.05	3.58	-4.23	3.51	-3.44	3.75	-3.20
13	4.82	-2.95	4.95	-4.28	4.04	-4.23	3.90	-3.81	3.10	-3.28	3.52	-3.27
14	5.19	-3.44	5.06	-4.20	4.21	-4.24	3.86	-3.38	3.00	-3.14	3.69	-3.00
15	5.39	-3.71	4.84	-3.97	4.24	-3.98	3.56	-2.89	2.98	-2.67	3.53	-2.45
16	5.23	-3.90	3.62	-3.82	3.59	-3.67	3.18	-2.87	2.51	-3.00	3.40	-2.31
17	5.08	-3.77	3.91	-3.31	3.87	-2.38	2.91	-2.65	1.77	-2.70	3.12	-2.87
18	4.78	-3.26	3.39	-3.10	3.59	-2.15	2.85	-2.44	2.53	-1.35	2.44	-2.24
19	3.93	-3.22	3.00	-2.69	3.37	-1.82	2.51	-2.23	2.84	-2.05	2.67	-1.78
20	3.26	-3.55	2.75	-3.10	2.86	-1.81	2.76	-1.91	2.94	-1.17	2.74	-2.08
21	3.33	-2.84	2.24	-3.12	3.15	-2.33	2.52	-3.20	4.06	-1.91	3.16	-1.72
22	3.37	-2.52	2.77	-2.70	2.96	-1.59	2.03	-3.10	3.84	-3.29	3.26	-2.22
23	3.57	-1.66	2.70	-3.32	3.89	-1.84	2.84	-2.96	3.30	-3.49	3.47	-3.25
24	3.75	-1.50	3.19	-2.12	3.59	-2.14	3.34	-2.97	2.92	-4.28	3.75	-3.36
25	3.96	-1.21	3.50	-2.32	3.87	-2.85	3.59	-3.09	3.86	-4.26	4.17	-3.83
26	4.40	-1.05	3.64	-2.44	3.04	-3.25	2.61	-4.18	4.59	-3.52	4.91	-3.93
27	4.65	-0.94	3.77	-2.68	3.59	-3.46	3.51	-4.20	4.64	-3.66	5.64	-3.20
28	5.15	-0.80	3.75	-2.93	2.92	-4.13	3.51	-3.95	4.52	-3.71	5.39	-3.15
29	5.15	-0.87	3.43	-3.25	3.43	-3.82	3.70	-3.95	---	---	4.93	-3.44
30	5.00	-1.15	3.87	-2.29	3.52	-3.90	3.49	-4.02	---	---	4.43	-3.32
31	4.46	-1.86	---	---	3.57	-3.51	3.53	-3.90	---	---	4.38	-3.33
MONTH	5.39	-3.90	5.06	-4.28	4.92	-4.24	4.45	-4.23	4.64	-4.28	5.64	-3.93

ST MARYS RIVER BASIN

02231000 ST MARYS RIVER NEAR MACCLENNY, FLA.

LOCATION.--Lat 30°21'31", long 82°04'54", in NW sec. 2, T.2 S., R.22 E., Baker County, Fla.-Charlton County, Ga., 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 mi², 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. Datum of gage is 40.00 ft above National Geodetic Vertical Datum of 1929 (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.--Estimated daily discharges: Nov. 15-19, 22-30, Dec. 1-5, Apr. 7-15, June 24-27. Records fair.

AVERAGE DISCHARGE.--64 years, 663 ft³/s, 12.86 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,100 ft³/s, Sept. 25, 1947; maximum gage height, 23.25 ft, Sept. 13, 1964, from floodmark; minimum discharge observed, 12 ft³/s, May 22, 1932; minimum gage height observed, 0.04 ft, June 4, 5, 1927.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0100	(a)	*11.17	Feb. 24	1500	*1,890	10.30

(a) Backwater from St Marys River near Gross, Fla.

Minimum discharge, 16 ft³/s, Sept. 24-28, minimum gage height, 0.66 ft, Sept. 25, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1860	144	60	416	333	973	760	132	37	31	24	28
2	1870	136	60	568	339	851	804	111	36	29	23	31
3	1810	127	59	603	311	757	714	95	45	29	22	27
4	1620	120	59	549	286	686	670	83	50	29	21	26
5	1470	113	59	493	270	622	599	75	47	28	21	25
6	1300	107	58	451	276	557	517	69	49	27	20	25
7	1050	102	58	429	260	501	420	64	47	26	20	24
8	833	97	59	461	237	456	360	60	74	26	27	23
9	682	101	72	594	220	416	310	57	247	24	37	23
10	572	113	106	606	210	380	280	55	287	24	37	23
11	495	119	116	544	360	345	240	52	181	23	33	24
12	437	109	107	486	646	313	220	50	128	24	40	24
13	389	100	107	435	700	283	200	47	96	26	50	22
14	346	96	128	388	601	257	180	45	76	33	41	21
15	308	92	131	349	508	234	165	44	63	44	35	21
16	279	88	121	321	441	215	165	42	55	57	48	21
17	256	85	113	298	394	201	151	40	52	52	40	21
18	265	82	116	278	373	206	138	38	51	41	35	22
19	366	78	168	260	374	221	127	38	46	38	34	21
20	462	75	482	243	712	208	119	36	42	44	32	19
21	465	74	739	229	1410	190	113	35	39	46	30	18
22	450	72	747	232	1640	176	108	37	36	54	28	18
23	415	70	665	301	1740	163	107	36	36	48	30	17
24	354	68	615	322	1870	152	114	34	43	43	34	17
25	298	67	583	290	1810	142	119	34	44	46	30	16
26	255	66	550	286	1600	133	112	33	46	42	27	16
27	223	64	525	319	1360	125	101	34	48	34	25	16
28	200	63	499	310	1150	118	95	49	50	31	25	16
29	181	62	465	278	---	113	121	57	41	30	24	18
30	166	61	429	257	---	111	146	48	35	27	24	20
31	153	---	393	270	---	282	---	41	---	25	25	---
TOTAL	19830	2751	8449	11866	20431	10387	8275	1671	2127	1081	942	643
MEAN	640	91.7	273	383	730	335	276	53.9	70.9	34.9	30.4	21.4
MAX	1870	144	747	606	1870	973	804	132	287	57	50	31
MIN	153	61	58	229	210	111	95	33	35	23	20	16
CFSM	.91	.13	.39	.55	1.04	.48	.39	.08	.10	.05	.04	.03
IN.	1.05	.15	.45	.63	1.09	.55	.44	.09	.11	.06	.05	.03
CAL YR 1989	TOTAL	86427	MEAN	237	MAX	1870	MIN	22	CFSM	.34	IN.	4.59
WTR YR 1990	TOTAL	88453	MEAN	242	MAX	1870	MIN	16	CFSM	.35	IN.	4.70

ST MARYS RIVER BASIN

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

GAGE HEIGHT, IN FEET ABOVE DATUM, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.12	2.39	1.54	4.33	3.84	7.14	6.14	2.27	1.10	.99	.84	.93
2	11.14	2.31	---	5.18	3.88	6.59	6.37	2.04	1.07	.95	.82	.99
3	10.96	2.22	---	5.37	3.70	6.14	5.92	1.87	1.22	.94	.80	.90
4	10.31	2.14	---	5.08	3.54	5.78	5.70	1.74	1.30	.94	.79	.88
5	9.37	2.07	1.43	4.77	3.43	5.46	5.34	1.64	1.25	.92	.77	.87
6	8.45	2.00	1.42	4.53	3.47	5.12	4.90	1.56	1.27	.90	.75	.86
7	7.45	1.94	1.41	4.40	3.36	4.82	---	1.50	1.25	.89	.77	.84
8	6.50	1.89	1.43	4.58	3.20	4.56	---	1.45	1.62	.88	.90	.82
9	5.76	1.93	1.60	5.31	3.08	4.33	---	1.40	3.18	.85	1.09	.81
10	5.20	2.07	1.99	5.38	3.00	4.12	---	1.37	3.54	.84	1.09	.82
11	4.78	2.13	2.10	5.05	3.97	3.92	---	1.33	2.74	.83	1.02	.85
12	4.45	2.02	2.00	4.73	5.58	3.72	---	1.29	2.23	.84	1.14	.85
13	4.17	1.93	2.00	4.44	5.85	3.52	---	1.26	1.89	.88	1.30	.81
14	3.92	1.88	2.22	4.17	5.35	3.34	---	1.22	1.65	1.01	1.16	.78
15	3.69	---	2.26	3.94	4.85	3.18	---	1.20	1.48	1.20	1.06	.77
16	3.49	---	2.15	3.77	4.47	3.04	2.59	1.17	1.37	1.41	1.26	.77
17	3.34	---	2.07	3.62	4.21	2.92	2.46	1.13	1.33	1.33	1.14	.78
18	3.39	---	2.10	3.49	4.08	2.96	2.33	1.11	1.31	1.15	1.05	.81
19	4.04	---	2.60	3.36	4.09	3.08	2.22	1.10	1.23	1.11	1.04	.77
20	4.59	1.64	4.69	3.25	5.86	2.98	2.13	1.07	1.17	1.21	1.00	.73
21	4.61	1.62	6.05	3.14	8.77	2.83	2.06	1.05	1.12	1.23	.96	.71
22	4.53	---	6.08	3.16	9.58	2.69	2.01	1.08	1.08	1.36	.93	.70
23	4.32	---	5.68	3.64	9.88	2.57	2.00	1.06	1.07	1.26	.95	.69
24	3.97	---	5.43	3.77	10.25	2.47	2.07	1.04	---	1.19	1.03	.68
25	3.62	---	5.26	3.57	10.07	2.37	2.13	1.03	---	1.24	.95	.67
26	3.33	---	5.08	3.54	9.42	2.28	2.06	1.02	1.05	1.16	.90	.67
27	3.10	1.67	4.95	3.75	8.62	2.20	1.93	1.03	---	1.04	.86	.67
28	2.91	---	4.80	3.70	7.82	2.12	1.87	1.28	1.30	.99	.86	.68
29	2.75	---	4.61	3.49	---	2.06	2.15	1.39	1.15	.95	.84	.70
30	2.60	---	4.40	3.34	---	2.05	2.41	1.26	1.05	.91	.84	.76
31	2.48	---	4.20	3.43	---	3.38	---	1.15	---	.87	.86	---
MEAN	5.30	---	---	4.11	5.61	3.67	---	1.33	---	1.04	.96	.79
MAX	11.14	---	---	5.38	10.25	7.14	---	2.27	---	1.41	1.30	.99
MIN	2.48	---	---	3.14	3.00	2.05	---	1.02	---	.83	.75	.67

ST MARYS RIVER BASIN

02231220 ST MARYS RIVER AT BOULOGNE, FLA.

LOCATION.--Lat 30°46'35", long 81°58'44", Nassau County, Fla.-Charlton County, Ga., Hydrologic Unit 03070204, at bridge on U.S. Highways 1, 23, and 301, at Boulogne.

DRAINAGE AREA.--1,180 mi², approximately; includes part of watershed in Okefenokee Swamp, the drainage area of which is indeterminate.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	GAGE HEIGHT (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 05...	1330	5.17	53	51	5.5	--	24.0	30.0	4.1	49
NOV 08...	1320	0.86	72	72	6.4	6.2	20.0	26.5	6.2	68
DEC 07...	1415	0.63	93	90	6.8	6.7	12.5	24.0	5.2	49
JAN 11...	1530	2.79	63	63	5.0	4.7	13.0	24.5	5.2	49
FEB 15...	1315	1.21	55	55	5.1	4.9	16.0	28.0	4.9	49
MAR 08...	1415	3.41	58	58	4.7	4.5	16.5	18.5	5.2	52
APR 05...	1400	1.91	51	52	5.0	4.9	19.0	28.0	5.1	55
MAY 10...	1400	1.83	72	67	6.8	6.6	24.5	35.0	4.1	49
JUN 07...	1410	1.75	105	103	7.0	7.0	28.0	33.0	3.8	48
JUL 18...	1405	0.19	110	108	6.9	7.0	28.5	29.0	4.9	63
AUG 09...	1220	1.69	98	100	7.0	7.1	27.5	33.0	4.8	61
SEP 19...	1415	2.84	104	103	7.2	7.1	29.0	34.0	5.3	69

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT 05...	360	5.0	1.7	100	1	0.060	<0.030	0.090	--	7.8
NOV 08...	240	3.0	1.6	20	11	0.100	0.090	0.120	30	5.3
DEC 07...	120	3.0	2.5	<20	22	0.170	<0.030	0.080	19	2.8
JAN 11...	280	3.0	1.4	70	1	0.030	<0.030	0.080	34	4.0
FEB 15...	280	4.0	0.9	130	1	0.060	0.110	0.200	32	5.2
MAR 08...	240	3.0	1.4	20	4	0.050	0.090	0.120	36	5.7
APR 05...	280	4.0	1.8	40	1	0.030	<0.030	0.120	38	5.7
MAY 10...	200	2.0	--	--	13	0.140	0.060	0.100	23	4.6
JUN 07...	200	2.0	--	--	28	0.040	0.070	0.320	21	3.1
JUL 18...	160	3.0	1.2	--	22	0.120	0.060	0.130	22	2.6
AUG 09...	120	3.0	1.3	130	23	0.060	<0.030	<0.020	25	2.4
SEP 19...	120	3.0	1.2	--	25	0.060	<0.030	0.070	14	2.0

ST MARYS RIVER BASIN

02231253 ST MARYS RIVER NEAR GROSS, FLA.

LOCATION.--Lat 30°44'29", long 81°41'17", in land grant 41, T.4 N., R.26 E., Nassau County, Hydrologic Unit 03070204, at Florida-Georgia state line, near center of span on upstream side of bridge on U.S. Highway 17, 1.8 mi downstream from Little St Marys River, 2.1 mi north of Gross, and 21 mi upstream from mouth.

DRAINAGE AREA.--1,360 mi², approximately.

PERIOD OF RECORD.--April 1966 to May 1975, October 1980 to September 1983, October 1984 to August 1990 (discontinued).

GAGE.--Water-stage and electromagnetic flowmeter recorders. Datum of gage is 10.00 ft below National Geodetic Vertical Datum of 1929.

April 1966 to August 1975 water-stage and deflection meter recorder at same site and datum.

REMARKS.--No record Sept. 1-30, velocity probe malfunction. Records poor. Discharge computed from continuous electromagnetic current-meter record and represents net of much larger upstream and downstream discharges. The stage record published is the maximum and minimum tide event for each calendar day.

AVERAGE DISCHARGE.--10 years (1967-72, 1981-82, 1987, 1989), 1,529 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 17,300 ft³/s, Nov. 2, 1969; maximum gage height, 14.60 ft, Nov. 1, 1969; maximum daily reverse flow, 7,620 ft³/s, Oct. 4, 1989, caused by storms and extreme high tides; minimum gage height, 5.63 ft, Feb. 13, 1971.

EXTREMES FOR CURRENT YEARS.--Maximum daily discharge, 5,140 ft³/s, Feb. 28; maximum gage height, 13.86 ft, Oct. 29; maximum daily reverse flow, 7,620 ft³/s, Oct. 4, caused by storms and extreme high tides; minimum gage height, 7.07, Feb. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-1910	3010	2830	3430	3050	4480	4270	1840	1550	1960	1600	---
2	3330	2240	2840	2910	2930	4330	4040	1410	2080	1660	816	---
3	2160	2720	2700	3400	2330	4080	3290	1290	2220	1440	1470	---
4	-7620	2550	1990	3170	2000	2980	2460	1500	2110	2630	1860	---
5	-2440	2050	2100	2490	1620	2770	2200	1840	512	3270	2370	---
6	3450	2490	1520	414	2490	2630	2160	458	1930	2880	2480	---
7	3410	2140	2140	1690	1950	820	1680	1670	3070	3140	2300	---
8	1750	1360	1450	1840	1860	3370	1900	2290	2610	3300	2290	---
9	797	1700	1860	2130	2530	3360	2940	2320	2470	3630	2480	---
10	1340	1100	1950	2280	2840	2650	3120	2440	2750	3950	2490	---
11	-1700	1290	2180	2390	2700	2580	2860	2030	1980	3970	1720	---
12	-1090	2010	2060	3340	3790	2890	2180	2020	2450	3690	2550	---
13	603	2090	3120	2580	3590	2770	2620	2730	2690	3550	2240	---
14	576	2340	2680	2950	3380	2320	2730	2110	3100	3380	1900	---
15	-229	2490	2730	3350	3000	2220	2960	2110	2370	2580	1650	---
16	223	3240	2790	3060	2950	2460	2670	2460	1650	2270	1280	---
17	1220	2080	2720	2840	2270	2990	2540	2340	907	1850	1220	---
18	1400	2400	3350	2790	2010	2300	1930	1170	2270	2070	1380	---
19	2480	2100	3480	2420	1660	2490	2100	1300	2130	1730	2520	---
20	1970	1880	4380	1820	908	2570	2570	984	1920	2070	2540	---
21	1600	1680	4130	1490	2550	2140	1400	1110	2470	2460	2710	---
22	1460	1090	3030	1740	3350	2210	648	1090	3090	2420	2780	---
23	977	1770	3450	1870	2210	2090	1140	1040	2880	2350	3280	---
24	1450	844	3530	1530	4410	1060	2800	2670	2360	2390	3380	---
25	1840	1920	3250	2160	3230	1670	2630	3040	2650	2300	3390	---
26	2150	2030	3060	2910	4180	1880	2670	2760	2710	2300	3270	---
27	2490	1930	2500	1870	4640	2060	2300	2690	2860	2070	3220	---
28	3070	2380	2590	2750	5140	3360	3010	2310	2810	2200	3170	---
29	2470	2190	2600	2740	---	3540	2650	3060	2560	2590	3390	---
30	3560	2000	2850	2990	---	3530	2710	1970	2320	2470	3360	---
31	3750	---	2940	3040	---	4620	---	1730	---	2170	3430	---
TOTAL	34537	61114	84800	76384	79568	85220	75178	59782	69479	80740	74536	---
MEAN	1114	2037	2735	2464	2842	2749	2506	1928	2316	2605	2404	---
MAX	3750	3240	4380	3430	5140	4620	4270	3060	3100	3970	3430	---
MIN	-7620	844	1450	414	908	820	648	458	512	1440	816	---
AC-FT	68500	121200	168200	151500	157800	169000	149100	118600	137800	160100	147800	---

CAL YR 1989 TOTAL 636325 MEAN 1743 MAX 4650 MIN -7620

NOTE.--Negative figures indicate reverse flow.

ST MARYS RIVER BASIN

02231253 ST MARYS RIVER NEAR GROSS, FLA.--Continued

GAGE HEIGHT, IN FEET ABOVE DATUM, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
TIDAL HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.46	13.13	13.01	12.49	12.87	13.45	13.22	12.62	13.07	12.57	12.77	--
2	13.20	13.14	12.91	12.80	12.84	13.58	13.16	12.85	12.91	12.83	12.98	--
3	13.24	13.20	12.40	12.63	12.63	13.41	12.98	12.81	12.78	13.03	13.12	--
4	13.23	13.11	12.61	12.60	12.59	13.07	12.89	12.79	12.56	13.02	13.16	--
5	13.46	13.25	12.35	12.49	12.64	13.30	12.79	12.58	13.11	12.79	13.09	--
6	13.07	13.07	12.48	12.67	13.16	13.40	12.69	12.99	13.19	12.88	13.05	--
7	12.75	12.79	12.48	13.04	13.14	13.48	12.93	13.14	12.92	13.03	13.06	--
8	12.87	12.91	12.92	13.25	13.09	13.83	13.21	13.03	12.82	13.05	13.04	--
9	13.64	12.92	13.57	13.00	13.11	13.43	13.19	12.95	12.84	13.11	13.03	--
10	13.65	13.07	13.36	12.90	12.93	12.94	12.99	12.73	12.83	13.03	13.06	--
11	13.65	13.13	13.37	13.03	13.10	13.03	12.86	12.75	12.63	12.84	13.06	--
12	13.55	13.28	13.36	12.74	13.01	12.97	12.85	12.78	13.13	12.73	13.01	--
13	13.56	13.37	13.00	13.00	12.87	12.95	12.97	12.91	13.28	12.60	12.98	--
14	13.64	13.47	13.06	13.07	12.69	12.84	13.09	12.61	13.12	12.51	12.92	--
15	13.69	13.38	13.11	12.93	12.61	12.97	12.90	12.68	12.83	12.62	12.91	--
16	13.61	12.87	12.82	12.73	12.37	12.93	12.77	12.84	13.15	12.76	12.98	--
17	13.53	12.93	13.06	12.59	11.85	12.69	12.61	12.71	13.53	12.95	13.15	--
18	13.48	12.73	12.94	12.55	12.39	12.20	12.65	12.62	13.46	12.96	13.35	--
19	12.99	12.57	13.01	12.35	12.59	12.42	13.20	12.73	13.38	13.07	13.39	--
20	12.51	12.42	12.69	12.53	12.69	12.48	12.97	12.90	13.42	13.12	13.35	--
21	12.70	12.06	12.88	12.38	13.44	12.75	12.83	12.95	13.43	13.05	13.30	--
22	12.79	12.43	12.64	11.93	13.22	12.79	13.18	13.09	13.24	13.00	13.15	--
23	13.07	12.35	13.28	12.43	12.92	12.82	13.49	13.78	13.25	12.96	13.19	--
24	13.18	12.69	12.97	12.74	12.49	12.93	13.38	13.72	13.15	13.12	12.94	--
25	13.25	12.87	13.11	12.87	13.09	13.08	13.31	13.66	13.28	13.12	12.81	--
26	13.50	12.95	12.61	12.24	13.53	13.39	13.27	13.54	13.26	13.18	12.68	--
27	13.67	13.00	12.84	12.71	13.58	13.79	13.25	13.42	13.15	--	12.69	--
28	13.82	12.96	12.48	12.79	13.55	13.83	13.31	13.31	12.99	13.40	12.75	--
29	13.86	12.75	12.78	12.91	--	13.72	13.17	13.31	12.69	13.24	12.69	--
30	13.84	13.11	12.83	12.79	--	13.51	13.03	13.02	12.54	12.94	12.81	--
31	13.48	--	12.87	12.77	--	13.32	--	13.04	--	12.73	12.94	--
MEAN	13.35	12.93	12.90	12.71	12.89	13.14	13.04	13.00	13.06	--	13.01	--
MAX	13.86	13.47	13.57	13.25	13.58	13.83	13.49	13.78	13.53	--	13.39	--
MIN	12.51	12.06	12.35	11.93	11.85	12.20	12.61	12.58	12.54	--	12.68	--
CAL YR 1989	MEAN	13.03	MAX	14.10	MIN	12.06						

ST MARYS RIVER BASIN

02231253 ST MARYS RIVER NEAR GROSS, FLA.--Continued

GAGE HEIGHT, IN FEET ABOVE DATUM, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
TIDAL LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.22	9.02	8.43	7.39	8.14	9.38	8.79	7.71	9.29	7.71	8.21	---
2	9.57	8.94	8.41	7.98	7.78	9.25	8.70	8.57	8.93	7.95	8.81	---
3	9.32	9.36	7.39	7.86	7.48	8.40	8.50	8.64	8.20	9.12	8.90	---
4	9.68	9.32	7.90	7.48	7.09	9.20	8.81	8.45	7.87	8.81	8.79	---
5	10.25	9.53	7.34	7.27	7.10	9.40	8.54	7.60	7.97	8.13	8.68	---
6	9.72	9.21	7.64	7.53	8.59	9.45	8.09	7.76	8.97	7.75	8.38	---
7	8.65	8.66	7.56	7.50	8.08	9.16	7.89	8.90	8.34	8.18	8.38	---
8	8.61	8.62	7.98	8.16	7.82	10.89	8.62	8.26	7.93	8.33	8.68	---
9	9.38	8.35	8.68	7.20	8.11	9.54	9.22	8.14	8.11	8.44	8.86	---
10	10.96	7.87	8.29	7.13	7.83	8.40	8.12	7.59	7.89	8.25	8.71	---
11	10.39	7.92	8.25	7.12	7.97	8.44	7.36	7.99	7.71	8.05	8.69	---
12	10.03	8.03	8.00	7.08	8.28	8.46	8.07	8.24	9.14	7.98	8.40	---
13	9.89	7.72	7.90	7.29	8.23	8.13	8.79	8.01	9.30	7.76	8.28	---
14	9.40	8.10	7.38	8.40	8.07	8.36	8.88	8.24	8.91	7.54	7.75	---
15	9.40	8.20	7.55	8.67	8.26	8.67	8.64	8.53	8.47	7.08	7.62	---
16	9.04	7.93	7.62	8.36	7.65	8.44	8.53	8.77	8.85	7.39	7.68	---
17	8.82	7.47	8.67	8.30	7.82	7.73	8.71	8.27	9.72	7.57	7.87	---
18	8.58	7.76	9.06	8.19	9.02	8.12	8.37	7.95	9.38	7.43	8.46	---
19	8.06	7.96	9.41	8.26	8.44	8.67	9.66	8.13	8.56	7.64	8.81	---
20	7.08	7.55	9.04	8.45	8.71	8.48	8.92	7.86	8.04	7.70	8.90	---
21	7.75	7.31	8.47	7.37	9.81	8.88	8.37	7.14	8.11	7.42	8.80	---
22	8.10	7.58	8.58	7.25	9.45	8.75	7.67	7.27	7.73	7.27	9.00	---
23	8.85	7.40	9.28	7.48	8.16	8.31	8.93	8.59	7.28	8.00	9.15	---
24	9.91	8.17	9.00	7.72	7.07	7.87	8.23	8.92	8.04	8.38	8.83	---
25	9.83	8.72	8.75	7.94	7.08	8.10	7.78	8.50	8.31	8.82	8.78	---
26	10.29	8.48	7.78	7.08	9.01	8.24	7.45	8.34	8.86	9.40	8.45	---
27	10.56	8.22	7.52	7.08	9.55	9.23	7.65	8.41	8.85	---	8.56	---
28	11.00	8.16	7.15	7.56	9.09	9.65	7.78	9.04	8.67	10.39	8.78	---
29	10.81	7.79	7.35	7.87	---	9.02	7.93	8.46	8.26	10.01	8.70	---
30	11.07	8.65	7.45	7.65	---	8.67	7.57	8.94	7.81	9.33	8.64	---
31	9.95	---	7.82	7.83	---	8.30	---	9.09	---	8.44	9.10	---
MEAN	9.52	8.27	8.12	7.69	8.20	8.76	8.35	8.27	8.45	---	8.57	---
MAX	11.07	9.53	9.41	8.67	9.81	10.89	9.66	9.09	9.72	---	9.15	---
MIN	7.08	7.31	7.15	7.08	7.07	7.73	7.36	7.14	7.28	---	7.62	---
CAL YR 1989	MEAN	8.47	MAX	11.88	MIN	7.08						

SUWANNEE RIVER BASIN

02314500 SUWANNEE RIVER AT FARGO, GA.

LOCATION.--Lat 30°40'50", long 82°33'38", Clinch County, Hydrologic Unit, 03110201, on downstream side of right bank pier of bridge on U.S. Highway 441 at Fargo, 4 mi upstream from Suwannee Creek, and 12 mi downstream from Mixons Ferry damsite.

DRAINAGE AREA.--About 1,260 mi², includes part of watershed in Okefenokee Swamp, which is indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1921 to September 1923 (gage heights only), January 1927 to December 1931, April 1937 to current year. Monthly discharge only for April 1937, published in WSP 1304.

REVISED RECORDS.--WSP 1234: Drainage area. WSP 1504: 1928-30.

GAGE.--Water-stage recorder. Datum of gage is 91.90 ft above National Geodetic Vertical Datum of 1929. Jan. 27, 1921 to Sept. 30, 1923, nonrecording gage at site 1,200 ft upstream at datum 3.00 ft higher. Jan. 27, 1927 to Dec. 31, 1931 and Apr. 20, 1937 to June 10, 1938, nonrecording gage at site 1,000 ft upstream at datum 1.00 ft higher, June 11, 1938 to Nov. 26, 1952, nonrecording gage at site 1,000 ft upstream at present datum. Oct. 14, 1960 to Oct. 29, 1970, auxiliary water-stage recorder at site about 3 mi upstream and since Nov. 5, 1971, auxiliary water-stage recorder at site about 2 mi upstream.

REMARKS.--Estimated daily discharges: June 21-26. Records good, except those less than 10 ft³/s, which are fair. Low flow at times affected by manipulation of water level at Mixons Ferry Dam.

AVERAGE DISCHARGE.--57 years (water years 1928-31, 1938-90), 1,040 ft³/s, 11.21 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft³/s, Oct. 1, 5, 6, 1928; maximum gage height, 21.01 ft, Apr. 9, 1973; no flow at times in 1931, 1943, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 28	0600	*2,390	*11.16

Minimum discharge, 1.0 ft³/s, July 2.

SUWANNEE RIVER BASIN

02314500 SUWANNEE RIVER AT FARGO, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	80	23	219	819	2390	799	199	21	1.2	11	6.0
2	137	77	22	256	835	2370	822	185	19	2.0	10	6.8
3	134	74	20	269	836	2340	823	172	18	15	9.4	6.4
4	127	73	19	286	862	2300	811	163	17	23	9.1	7.2
5	120	72	19	309	898	2250	786	154	17	19	9.7	7.2
6	115	71	18	336	898	2200	751	153	16	14	9.1	6.9
7	112	70	17	401	890	2140	715	148	13	10	8.6	5.9
8	112	70	20	556	869	2090	683	142	11	7.2	11	5.5
9	110	69	30	616	839	2040	654	136	9.8	5.6	14	5.3
10	110	68	32	638	855	1970	629	134	8.8	5.0	9.2	4.0
11	110	67	34	653	982	1900	608	129	8.2	7.5	7.3	2.6
12	109	66	37	667	1010	1830	588	123	7.1	8.2	6.5	2.3
13	107	65	42	669	1030	1750	563	118	5.9	5.1	5.7	2.3
14	104	64	42	668	1030	1650	533	115	4.9	6.2	5.8	2.8
15	101	64	41	669	1010	1570	503	112	4.5	6.8	9.0	7.7
16	100	66	42	673	987	1480	474	109	5.5	5.6	6.5	5.5
17	98	61	41	671	1020	1380	445	107	5.5	5.5	6.7	2.2
18	95	59	46	671	1060	1320	417	104	4.3	7.7	14	1.8
19	94	58	73	666	1140	1250	393	101	3.4	17	8.8	1.6
20	93	55	151	655	1400	1170	379	99	2.9	24	7.9	1.6
21	93	51	150	654	1620	1100	365	96	2.4	26	7.8	1.6
22	92	45	137	695	1790	1030	345	93	2.0	31	8.2	1.6
23	91	37	132	715	2000	965	335	89	1.6	31	7.7	1.5
24	89	31	132	716	2160	905	327	84	1.6	29	7.0	1.3
25	88	30	132	707	2270	846	307	76	1.5	25	6.1	1.3
26	87	28	136	723	2340	788	284	61	1.7	21	5.6	1.3
27	85	27	142	744	2380	722	261	48	1.6	18	5.1	1.3
28	84	27	146	755	2390	657	242	40	1.6	17	4.9	1.5
29	83	25	149	759	—	603	229	34	1.4	16	4.9	2.2
30	82	24	151	765	—	570	214	28	1.2	14	6.7	3.5
31	81	—	157	791	—	726	—	24	—	13	8.6	—
TOTAL	3174	1674	2333	18572	36220	46302	15285	3376	219.4	436.6	251.9	108.7
MEAN	102	55.8	75.3	599	1294	1494	510	109	7.31	14.1	8.13	3.62
MAX	137	80	157	791	2390	2390	823	199	21	31	14	7.7
MIN	81	24	17	219	819	570	214	24	1.2	1.2	4.9	1.3
CFSM	.08	.04	.06	.48	1.03	1.19	.41	.09	.006	.01	.006	.003
IN.	.09	.05	.07	.55	1.07	1.37	.45	.10	.01	.01	.01	.00
CAL YR 1989	TOTAL	31724.0	MEAN	86.9	MAX	235	MIN	11	CFSM	.07	IN	.94
WTR YR 1990	TOTAL	127952.6	MEAN	351	MAX	2390	MIN	1.2	CFSM	.28	IN	3.78

SUWANNEE RIVER BASIN

02314500 SUWANNEE RIVER AT FARGO, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 19...	0920	95	84	73	3.9	3.9	23.0	13.0	5.8	68
NOV 16...	1005	66	84	78	3.9	3.8	18.0	11.5	6.8	73
DEC 21...	1025	152	78	74	4.0	3.9	8.0	9.0	12.4	105
JAN 18...	0810	671	90	84	4.0	3.9	12.5	10.0	9.6	90
FEB 22...	0840	1770	83	78	3.9	3.8	15.5	20.0	6.7	68
MAR 28...	1000	662	86	88	4.0	3.8	16.0	18.0	8.4	85
APR 19...	0925	394	88	88	3.9	3.7	18.5	20.0	8.6	92
MAY 17...	0920	107	88	90	4.0	3.7	26.0	26.0	5.5	69
JUN 21...	0930	2.6	66	64	4.6	4.5	30.0	31.5	5.4	72
JUL 16...	0945	5.9	71	66	5.3	5.2	28.0	28.0	5.7	73
AUG 21...	0940	7.8	66	63	4.3	4.2	29.0	31.0	5.3	70
SEP 17...	0855	2.2	67	66	4.4	4.1	26.5	25.0	5.8	73

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 19...	320	2.0	--	1.8	20	1	6
NOV 16...	320	1.0	--	1.1	650	1	5
DEC 21...	240	5.0	--	2.2	<20	1	1
JAN 18...	200	1.0	--	0.6	50	<1	5
FEB 22...	280	2.0	--	1.0	170	1	<1
MAR 28...	140	2.0	--	0.6	<20	1	8
APR 19...	280	2.0	--	0.6	<20	1	6
MAY 17...	240	2.0	--	1.7	20	1	7
JUN 21...	300	2.0	--	1.4	<20	1	3
JUL 16...	200	6.0	96	1.2	<20	2	2
AUG 21...	200	5.0	11	0.5	<20	1	2
SEP 17...	280	2.0	120	0.7	20	1	1

SUWANNEE RIVER BASIN

02314500 SUWANNEE RIVER AT FARGO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO ₂ + NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT 19...	0.020	<0.030	--	--	--	0.180	--	<4.0
NOV 16...	<0.020	0.040	--	--	--	<0.020	47	7.3
DEC 21...	0.060	<0.030	--	--	--	0.270	40	4.7
JAN 18...	<0.020	<0.030	--	--	--	0.040	42	5.7
FEB 22...	0.020	<0.030	--	--	--	0.040	49	7.6
MAR 28...	0.040	<0.030	--	--	--	<0.030	54	8.0
APR 19...	0.020	0.040	--	--	--	0.040	58	7.6
MAY 17...	<0.020	<0.030	--	--	--	<0.030	58	7.8
JUN 21...	<0.020	<0.030	--	--	--	0.060	42	5.9
JUL 16...	<0.020	<0.030	--	1.0	--	0.050	32	3.6
AUG 21...	0.020	<0.030	--	0.70	0.72	0.040	44	5.6
SEP 17...	<0.020	<0.030	--	0.60	--	0.060	45	7.3

SUWANNEE RIVER BASIN

02316000 ALAPAHA RIVER NEAR ALAPAHA, GA.

LOCATION.--Lat 31°23'03", long 83°11'33", Berrien County, Hydrologic Unit 03110202, at bridge on U.S. Highway 82, 2 mi east of Alapaha, and 6 mi upstream from Willacoochee River.

DRAINAGE AREA.--663 mi².

PERIOD OF RECORD.--October 1969 to current year. Water-discharge records for water years 1937-76 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

		DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)			
DATE		TIME										
FEB 06...		0830	1000	52	54	6.0	6.4	13.0	7.8	73		
JUL 11...		1030	0.20	76	79	6.7	6.8	29.0	6.1	79		
DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L)	
FEB 06...	120	8.3	13	8	2.8	1.5	3.4	32	0.4	2.0	5.0	
JUL 11...	55	4.0	23	11	5.1	2.4	4.3	27	0.4	2.0	12	
DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	
FEB 06...	9.8	0.10	6.5	54	--	--	--	<0.100	<0.100	0.020	0.010	
JUL 11...	10	0.30	7.1	57	--	--	--	0.100	<0.100	0.240	0.020	
DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN DIS-SOLVED (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)
FEB 06...	0.68	0.59	0.70	0.60	--	--	0.030	0.010	14	230	<1	<1
JUL 11...	0.66	0.18	0.90	0.20	1.0	--	0.120	0.020	12	50	1	1
DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, DIS-SOLVED (UG/L AS ZN)	
FEB 06...	<1.0	<5	<10	380	1	<10	16	<0.10	<0.1	<1	5	
JUL 11...	<1.0	<1	<1	730	1	1	320	<0.10	<0.1	<1	5	

SUWANNEE RIVER BASIN

02317500 ALAPAHA RIVER AT STATENVILLE, GA.

LOCATION.--Lat 30°42'14", long 83°02'00", Echols County, Hydrologic Unit 03110202, at downstream side of left bank pier of bridge on State Highway 94, 0.2 mi west of Statenville.

DRAINAGE AREA.--1,400 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January to June 1921, October 1931 to current year. Monthly discharge only for October to December, 1931, published in WSP 1304.

REVISED RECORDS.--WSP 822: 1936, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 76.77 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Jan. 28 to June 30, 1921, nonrecording gage at site 50 ft upstream at datum 2.10 ft higher. Dec. 10, 1931 to Nov. 30, 1949, nonrecording gage at site 200 ft upstream at present datum, and Dec. 1, 1949, to Nov. 22, 1952, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 9-10. Records good. Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--59 years (1932-90), 1,042 ft³/s, 10.11 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,300 ft³/s, Apr. 6, 1948, gage height, 29.8 ft, from graph based on gage readings; minimum, 16 ft³/s, Nov. 13, 14, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1862, that of Apr. 6, 1948, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 21	2100	*6,880	*24.42	Feb. 28	0400	3,270	13.91

Minimum discharge, 20 ft³/s, Sept. 25-28.

SUWANNEE RIVER BASIN

02317500 ALAPAHA RIVER AT STATENVILLE, GA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	85	73	828	2220	3240	1400	199	69	46	43	41
2	85	80	74	880	2250	3210	1350	186	67	44	41	36
3	88	75	73	898	2280	3150	1300	174	65	44	38	33
4	89	71	73	955	2330	3010	1300	162	65	44	36	32
5	84	69	74	1040	2370	2800	1280	155	67	44	35	30
6	79	67	76	1160	2360	2560	1210	172	66	43	35	29
7	80	66	79	1340	2310	2310	1120	154	66	40	34	28
8	89	66	137	1660	2230	2080	1020	138	67	42	37	26
9	73	67	220	1820	2100	1870	911	130	94	43	45	26
10	71	64	201	1930	2120	1680	808	135	80	40	47	25
11	68	62	180	2010	2350	1520	732	126	75	39	53	26
12	63	61	195	2070	2230	1360	690	116	64	37	49	25
13	60	61	282	2170	2090	1220	662	108	57	39	44	25
14	59	64	359	2430	1850	1110	638	104	55	56	40	25
15	59	73	416	3000	1950	1010	608	98	52	65	38	24
16	59	76	488	3790	1920	925	571	109	51	56	38	25
17	59	73	528	4570	2090	901	528	111	52	54	37	24
18	58	72	537	5270	2320	1010	492	107	51	59	35	24
19	60	71	601	5940	2520	1020	465	97	50	74	32	24
20	61	70	808	6480	2720	1020	440	92	49	61	30	24
21	60	69	830	6820	2750	1030	409	91	47	83	31	23
22	59	69	785	6720	2760	1090	373	91	45	80	32	23
23	58	76	788	6230	3010	1140	345	85	44	66	32	22
24	58	81	813	5250	3110	1190	325	82	43	57	31	21
25	60	82	846	3860	3160	1240	297	79	42	59	34	21
26	65	81	901	2840	3210	1280	275	81	43	55	56	21
27	78	77	955	2500	3250	1270	254	91	45	50	48	20
28	89	75	981	2350	3260	1220	242	88	47	46	42	21
29	93	73	964	2250	---	1160	226	86	51	44	35	22
30	92	72	893	2150	---	1130	213	78	50	41	37	23
31	90	---	794	2200	---	1280	---	73	---	40	47	---
TOTAL	2226	2148	15024	93411	69120	50036	20484	3598	1719	1591	1212	769
MEAN	71.8	71.6	485	3013	2469	1614	683	116	57.3	51.3	39.1	25.6
MAX	93	85	981	6820	3260	3240	1400	199	94	83	56	41
MIN	58	61	73	828	1850	901	213	73	42	37	30	20
CFSM	.05	.05	.35	2.15	1.76	1.15	.49	.08	.04	.04	.03	.02
IN.	.06	.06	.40	2.48	1.84	1.33	.54	.10	.05	.04	.03	.02
CAL YR 1989	TOTAL	164252	MEAN	450	MAX	1820	MIN	58	CFSM	.32	IN	4.36
WTR YR 1990	TOTAL	261338	MEAN	716	MAX	6820	MIN	20	CFSM	.51	IN	6.94

SUWANNEE RIVER BASIN

02317500 ALAPAHA RIVER AT STATENVILLE, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to July 1974, September 1990.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
SEP 17...	1010	24	55	54	6.6	6.6	26.5	26.5	6.7	84

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
SEP 17...	20	2.0	0.9	60	8	0.050	<0.030	0.460	4.5

SUWANNEE RIVER BASIN

02317718 NEW RIVER NEAR TIFTON, GA.

LOCATION.--Lat 31°26'33", long 83°28'33", Tift County, Hydrologic Unit 03110203, at bridge on U.S. Highway 82, 1.6 mi east of Tifton.
DRAINAGE AREA.--10.4 mi².

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 17...	0855	5.7	810	794	7.8	7.7	25.0	22.0	7.3	90
NOV 14...	0900	3.4	1200	1120	7.6	7.6	21.0	17.0	8.2	94
DEC 19...	0840	22	272	271	6.8	7.2	8.5	4.0	10.4	90
JAN 16...	0855	16	290	301	7.2	7.1	12.5	7.0	9.3	88
FEB 20...	0925	47	235	269	6.9	7.0	15.0	14.0	8.7	87
MAR 26...	0910	5.5	400	403	7.2	7.5	20.0	20.0	7.6	85
APR 17...	0840	6.6	376	427	7.5	7.6	21.0	20.5	11.4	130
MAY 15...	0840	5.6	--	701	7.5	7.7	25.0	24.5	8.0	--
JUN 19...	0840	4.6	570	596	7.4	7.6	27.5	27.5	7.8	101
JUL 18...	0750	4.4	680	681	7.6	7.6	27.5	24.5	6.1	79
AUG 23...	0800	4.8	755	809	7.5	7.7	28.0	24.5	6.6	86
SEP 27...	0740	3.8	895	878	7.6	7.7	23.0	14.0	6.2	74

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 17...	30	3.0	1.8	700	155	<1	3.68	0.100	4.19	--
NOV 14...	25	4.0	2.0	1300	149	9	8.87	0.250	4.05	13
DEC 19...	130	64	2.7	1100	40	26	2.04	0.180	0.760	7.6
JAN 16...	30	8.0	1.9	210	50	4	2.10	0.090	0.940	13
FEB 20...	110	21	1.7	790	33	7	3.30	0.080	0.500	8.2
MAR 26...	55	7.0	1.0	630	79	5	1.41	0.110	1.22	9.6
APR 17...	40	8.0	0.8	310	91	5	3.90	0.150	1.96	8.7
MAY 15...	10	3.0	1.6	260	140	4	4.30	0.110	5.02	9.9
JUN 19...	25	56	1.9	1300	121	8	3.80	0.140	2.14	7.0
JUL 18...	20	7.0	2.0	330	135	9	4.18	0.060	4.60	11
AUG 23...	30	4.0	0.5	3300	138	4	3.78	0.070	2.26	9.9
SEP 27...	20	3.0	0.7	1700	158	4	3.54	0.230	2.32	9.9

SUWANNEE RIVER BASIN

023177483 WITHLACOOCHIE RIVER AT MCMILLAN ROAD NEAR BEMISS, GA.

LOCATION.--Lat 30°56'50", long 83°16'22", Lowndes County, Hydrologic Unit 03110203, on downstream side of bridge pier on McMillan Road, 2.3 mi downstream from Cat Creek, and 3.0 mi northwest of Bemiss.

DRAINAGE AREA.--502 mi², approximately.

PERIOD OF RECORD.--June 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 125 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,710 ft³/s, Jan. 13, 1990, gage height, 14.83 ft; minimum discharge, 0.48 ft³/s, Sept. 23, 24, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 13	0400	*2,710	*14.83	Feb. 23	2200	1,980	13.03

Minimum discharge, 0.48 ft³/s, Sept. 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	21	72	464	892	1260	393	33	7.8	3.1	5.9	1.8
2	39	19	71	572	730	951	450	27	7.4	2.7	5.1	1.7
3	61	18	62	674	595	735	588	23	6.9	3.0	4.5	1.4
4	76	17	53	789	557	603	689	19	7.0	3.1	4.1	1.1
5	55	16	48	956	564	524	694	27	9.3	3.5	3.2	.96
6	40	16	47	1200	518	466	620	57	7.0	2.6	2.9	.92
7	32	17	47	1380	468	427	500	41	6.1	2.2	2.6	.89
8	29	17	75	1400	439	389	381	35	6.2	1.9	2.3	.92
9	29	22	179	1330	412	353	289	30	8.3	1.8	2.4	3.6
10	26	33	268	1290	419	320	229	27	8.0	2.1	2.7	3.6
11	23	94	342	1580	595	291	202	24	7.0	2.3	2.3	1.9
12	21	101	375	2370	754	268	195	21	6.1	2.0	2.0	1.3
13	20	79	437	2590	894	245	194	19	5.6	1.9	2.6	1.2
14	18	70	485	2100	1030	229	176	17	5.2	8.6	12	1.9
15	17	66	508	1580	1080	215	152	15	5.1	10	11	1.6
16	16	61	471	1150	1070	203	135	14	4.8	8.9	8.1	1.1
17	15	54	419	845	1080	257	123	12	4.6	8.4	6.4	.86
18	23	49	395	672	1110	478	107	11	4.7	16	5.6	.78
19	46	46	441	568	1210	572	89	11	5.4	18	4.4	.82
20	94	44	572	505	1450	644	76	10	5.6	12	3.6	.75
21	137	39	577	456	1680	730	65	9.8	4.9	16	2.9	.74
22	102	41	533	428	1830	826	56	10	4.4	37	2.6	.76
23	64	69	511	416	1940	849	52	8.8	4.1	42	2.5	.63
24	49	82	561	406	1970	685	45	8.0	3.5	20	3.3	.51
25	44	83	653	418	1880	469	42	7.4	3.0	15	3.6	.63
26	43	78	676	635	1740	344	38	7.0	2.6	12	3.3	.63
27	38	68	583	781	1650	274	33	6.6	2.4	10	2.1	.67
28	33	61	462	739	1520	232	38	8.1	3.7	8.7	1.9	.80
29	29	61	382	711	---	201	44	8.3	6.1	7.5	1.8	.83
30	26	65	333	820	---	194	38	8.1	4.4	6.6	1.6	1.5
31	23	---	322	936	---	371	---	8.3	---	6.4	1.7	---
TOTAL	1295	1507	10960	30761	30077	14605	6733	563.4	167.2	295.3	121.0	36.80
MEAN	41.8	50.2	354	992	1074	471	224	18.2	5.57	9.53	3.90	1.23
MAX	137	101	676	2590	1970	1260	694	57	9.3	42	12	3.6
MIN	15	16	47	406	412	194	33	6.6	2.4	1.8	1.6	.51
CFSM	.08	.10	.71	1.98	2.14	.94	.45	.04	.01	.02	.008	.002
IN.	.10	.11	.81	2.28	2.23	1.08	.50	.04	.01	.02	.01	.00
CAL YR 1989	TOTAL	58375.50	MEAN	160	MAX	1130	MIN	8.3	CFSM	.32	IN	4.33
WTR YR 1990	TOTAL	97121.70	MEAN	266	MAX	2590	MIN	.51	CFSM	.53	IN	7.20

SUWANNEE RIVER BASIN

02317749 WITHLACOOCHIEE RIVER ABOVE VALDOSTA, GA.

LOCATION.--Lat 30°55'57", long 83°17'22", Lowndes County, Hydrologic Unit 03110203, at county highway bridge, 1.5 mi upstream from Bay Branch, and 7 mi north of Valdosta.

PERIOD OF RECORD.--November 1974 to current year.

REMARKS.--Laboratory analyses are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, Dissolved Oxygen, and Total Alkalinity are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 19...	1435	43	389	385	7.4	7.3	21.0	13.0	6.2	71
NOV 16...	1505	44	208	203	7.1	6.7	17.0	15.5	6.9	73
DEC 21...	1440	560	92	91	6.4	6.2	7.0	9.0	13.3	110
JAN 18...	1230	640	76	76	6.3	6.2	11.5	23.5	10.0	92
FEB 22...	1230	1550	63	62	6.0	5.7	15.5	24.0	7.5	76
MAR 28...	1515	210	88	89	6.6	6.4	17.0	23.0	7.9	82
APR 19...	1335	90	122	125	6.7	6.6	17.5	23.0	9.3	97
MAY 17...	1415	15	165	168	6.9	6.8	26.0	31.5	6.6	83
JUN 21...	1415	6.2	162	160	7.0	6.9	29.0	34.0	6.2	82
JUL 16...	1440	11	140	140	7.0	7.0	28.0	32.0	6.0	77
AUG 21...	1350	5.4	232	236	7.2	7.4	28.5	34.0	6.9	90
SEP 17...	1355	3.1	148	148	7.0	7.0	26.5	32.0	7.0	88

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	110	2.0	0.8	140	66	0.150	<0.030	0.490	--
NOV 16...	120	2.0	0.8	<20	32	0.110	0.050	0.270	16
DEC 21...	120	7.0	2.1	170	6	0.160	<0.030	0.280	22
JAN 18...	140	6.0	1.0	50	7	0.150	0.030	0.100	21
FEB 22...	240	7.0	1.3	210	4	0.080	<0.030	0.120	19
MAR 28...	150	5.0	0.3	70	11	0.280	<0.030	0.140	33
APR 19...	120	4.0	0.5	<20	17	0.470	0.050	0.220	17
MAY 17...	60	4.0	1.0	20	20	0.200	0.030	0.170	12
JUN 21...	50	3.0	0.7	20	27	0.080	<0.030	0.260	9.2
JUL 16...	60	4.0	0.5	20	27	0.090	<0.030	0.250	7.2
AUG 21...	40	1.0	0.5	110	39	0.050	0.050	0.260	12
SEP 17...	25	1.0	0.8	80	28	<0.020	<0.030	0.260	7.3

SUWANNEE RIVER BASIN

02317757 WITHLACOOCHEE RIVER NEAR VALDOSTA, GA.

LOCATION.—Lat 30°51'00", long 83°20'23", Lowndes County, Hydrologic Unit 03110203, at bridge on State Highway 94, 0.8 mi upstream from Little River, and 4 mi northwest of Valdosta.

PERIOD OF RECORD.—November 1974 to current year.

REMARKS.—Streamflow includes return flow by city of Valdosta. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 19...	1400	12	93	89	6.9	6.7	19.0	13.0	6.7	73
NOV 16...	1430	12	197	194	7.0	6.9	17.0	14.5	7.2	76
DEC 21...	1400	550	90	89	6.4	6.2	7.0	9.0	13.0	108
JAN 18...	1135	1620	75	74	6.2	6.1	11.5	22.0	9.6	88
FEB 22...	1155	1950	60	58	6.1	5.8	16.5	25.0	7.1	74
MAR 28...	1410	115	85	85	6.6	6.4	17.0	23.0	7.0	73
APR 19...	1300	52	110	114	6.7	6.6	18.0	23.0	9.1	96
MAY 17...	1330	--	110	111	6.9	6.8	26.0	32.0	6.9	86
JUN 21...	1330	--	130	130	7.0	7.1	29.0	34.5	6.8	90
JUL 16...	1400	10	68	70	6.9	6.9	27.0	32.0	6.0	76
AUG 21...	1305	6.6	96	97	6.9	6.8	27.0	34.0	5.9	75
SEP 17...	1310	3.9	87	85	6.9	6.8	26.5	32.0	6.6	83

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	90	9.0	2.4	10450	22	0.310	0.070	0.250	--
NOV 16...	80	3.0	1.3	130	29	0.260	0.100	0.130	10
DEC 21...	100	11	2.3	<20	6	0.160	<0.030	0.260	16
JAN 18...	120	6.0	0.8	50	6	0.110	<0.030	0.100	22
FEB 22...	360	8.0	1.2	220	4	0.070	<0.030	0.120	19
MAR 28...	140	5.0	1.0	220	11	0.270	0.040	0.140	17
APR 19...	120	5.0	0.5	40	15	0.430	0.150	0.200	21
MAY 17...	70	4.0	1.7	20	23	0.670	0.370	0.150	8.0
JUN 21...	30	4.0	1.1	170	27	0.620	0.310	0.160	4.6
JUL 16...	60	14	0.1	1700	17	0.290	0.100	0.100	5.7
AUG 21...	40	5.0	0.7	330	21	0.420	0.240	0.180	6.3
SEP 17...	30	4.0	0.9	170	21	0.320	0.200	0.170	5.1

SUWANNEE RIVER BASIN

02318500 WITHLACOOCHEE RIVER NEAR QUITMAN, GA.

LOCATION.--Lat 30°47'35", long 83°27'13", Brooks-Lowndes County line, Hydrologic Unit 03110203, on downstream right bank pier of abandoned bridge on old U.S. Highway 84, 4 mi upstream from Piscola Creek, 6 mi east of Quitman, and 9 mi downstream from Little River.
DRAINAGE AREA.--1,480 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to December 1931, June 1937 to May 1948, October 1988 to current year.

REVISED RECORDS.--WSP 1304: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 84.30 ft above National Geodetic Vertical Datum of 1929. October 1, 1928 to December 11, 1931, nonrecording gage at same site at datum 5.0 ft lower. June 9, 1937 to May 31, 1948, nonrecording gage at same site and datum. May 19, 1949 to March 1, 1954, crest-stage gage at same site and datum. September 29, 1988 to May 4, 1989, water-stage recorder at site, 2,000 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Oct. 1-20. Records good, except those for the period of estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--16 years (water years 1929-31, 1938-48, 1990), 1,142 ft³/s, 10.48 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,000 ft³/s, April 4, 1948, gage height, 31.7 ft, from floodmark; minimum observed discharge 5.9 ft³/s, November 11-13, 1940, November 21, 1942.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 2,500 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 15	1800	*8,420	*20.30	Feb. 26	2100	5,520	16.37
Feb. 1	1300	3,020	10.87				

Minimum discharge, 10 ft³/s, Sept. 6, 7, and 25.

SUWANNEE RIVER BASIN

02318500 WITHLACOOCHIE RIVER NEAR QUITMAN, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	24	40	1230	3000	4930	1130	115	27	14	16	14
2	35	23	42	1300	2910	4490	1230	99	24	13	15	13
3	40	23	52	1500	2550	3880	1470	88	23	17	16	13
4	45	22	51	1740	2200	3050	1770	80	23	20	15	12
5	55	22	43	1990	2050	2270	1940	80	29	16	15	11
6	60	21	36	2370	1940	1760	1920	379	30	14	15	11
7	50	23	39	2860	1820	1490	1770	355	25	14	14	11
8	40	28	125	3430	1670	1330	1510	213	23	13	16	11
9	35	47	280	3720	1490	1220	1200	132	66	13	18	13
10	30	50	317	3800	1550	1120	935	111	58	17	17	12
11	30	37	522	3820	1980	1020	814	99	39	17	17	17
12	25	30	639	4040	1960	921	728	88	30	15	16	20
13	25	46	776	4880	2160	844	705	79	24	15	15	13
14	20	73	811	6410	2440	770	684	70	20	67	15	12
15	20	62	871	8130	2670	714	635	63	18	76	16	30
16	25	65	913	8080	2820	657	570	56	18	48	17	30
17	30	62	872	6920	3150	789	513	51	18	34	17	18
18	35	49	829	5540	3130	1190	459	48	17	27	78	14
19	35	39	877	4160	3190	1390	394	43	16	51	36	13
20	40	34	1110	2780	3460	1590	332	39	15	37	21	12
21	46	37	1200	2020	3820	1800	279	44	15	28	15	12
22	82	37	1220	1710	4220	2010	235	64	15	30	14	12
23	84	74	1190	1540	4800	2200	208	52	15	36	39	12
24	64	81	1180	1450	5190	2280	189	46	15	55	32	12
25	46	65	1250	1450	5410	2170	162	46	15	36	24	11
26	35	62	1340	1770	5510	1870	142	37	16	26	20	12
27	29	60	1370	2020	5450	1440	128	33	14	22	16	12
28	26	55	1310	2240	5240	1040	129	36	14	19	14	12
29	25	50	1180	2400	---	789	147	74	15	17	14	13
30	22	44	1030	2590	---	682	133	42	16	16	13	16
31	22	---	939	2860	---	988	---	32	---	15	12	---
TOTAL	1186	1345	22454	100750	87780	52694	22461	2794	693	838	618	424
MEAN	38.3	44.8	724	3250	3135	1700	749	90.1	23.1	27.0	19.9	14.1
MAX	84	81	1370	8130	5510	4930	1940	379	66	76	78	30
MIN	20	21	36	1230	1490	657	128	32	14	13	12	11
CFSM	.03	.03	.49	2.20	2.12	1.15	.51	.06	.02	.02	.01	.01
IN.	.03	.03	.56	2.53	2.21	1.32	.56	.07	.02	.02	.02	.01
CAL YR 1989	TOTAL	185885	MEAN	509	MAX	4450	MIN	20	CFSM	.34	IN	4.67
WTR YR 1990	TOTAL	294037	MEAN	806	MAX	8130	MIN	11	CFSM	.55	IN	7.39

SUWANNEE RIVER BASIN

02318500 WITHLACOOCHEE RIVER NEAR QUITMAN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1977 to current year.

REMARKS.--Streamflow includes return flow by the City of Valdosta. Laboratory chemical analyses by Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 19...	1230	--	185	162	7.0	6.9	21.0	14.0	6.6	75
NOV 16...	1325	65	188	185	7.1	7.0	18.5	14.5	7.9	86
DEC 21...	1250	1210	90	91	6.5	6.3	8.0	9.0	13.5	114
JAN 18...	1025	5630	57	57	6.0	5.9	11.5	21.0	10.2	94
FEB 22...	1050	4150	60	58	6.2	5.9	16.0	25.0	7.6	78
MAR 28...	1245	1020	72	69	7.5	6.5	17.0	23.0	8.0	83
APR 19...	1140	391	87	89	6.7	6.7	19.0	19.5	9.2	99
MAY 17...	1150	50	110	112	7.0	7.0	26.0	30.0	7.2	90
JUN 21...	1155	15	165	166	7.0	7.3	29.5	33.0	8.4	112
JUL 16...	1235	47	240	247	7.2	7.3	28.0	31.0	8.8	113
AUG 21...	1155	15	306	313	7.1	7.2	28.0	34.5	5.7	74
SEP 17...	1210	15	300	310	7.0	7.2	27.0	32.0	6.7	85

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	90	8.0	1.1	40	24	2.30	<0.030	1.08	--
NOV 16...	35	3.0	0.8	<20	27	2.39	0.120	0.890	7.3
DEC 21...	120	13	2.8	<20	6	0.280	<0.030	0.220	27
JAN 18...	150	20	1.3	20	4	0.140	<0.030	0.080	18
FEB 22...	260	12	1.6	140	4	0.120	<0.030	0.100	18
MAR 28...	120	9.0	1.2	80	12	0.250	<0.030	0.810	15
APR 19...	120	9.0	0.3	35	12	0.500	0.030	0.220	13
MAY 17...	60	7.0	1.6	<20	17	1.05	<0.030	0.480	11
JUN 21...	50	2.0	0.8	<20	25	1.47	<0.030	0.810	6.8
JUL 16...	45	5.0	0.6	8	30	3.00	0.030	1.54	7.9
AUG 21...	20	1.0	0.8	50	41	3.15	0.050	1.97	5.8
SEP 17...	10	1.0	0.8	20	38	2.40	0.030	1.90	5.3

SUWANNEE RIVER BASIN

02318700 OKAPILCO CREEK AT STATE HIGHWAY 33, NEAR QUITMAN, GA.

LOCATION.--Lat 30°49'32", long 83°33'45", Brooks County, Hydrologic Unit 03110203, on downstream side of bridge pier on State Highway 33, 1.0 mi downstream from Coon Creek, and 3.0 mi north of Quitman.

DRAINAGE AREA.--269 mi², approximately.

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

GAGE.--Water-stage recorder. Elevation of gage is 110 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: Oct. 18 to Nov. 28. Records good, except those less than 50 ft³/s, which are fair, and those for the period of estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--10 years (water years 1981-90), 215 ft³/s, 10.85 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,500 ft³/s, Feb. 12, 1986, gage height, 18.75 ft, from floodmarks. No flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 22	2300	*1,510	*11.62	No other peak greater than base discharge.			

No flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	12	15	252	541	678	262	19	1.1	.00	.54	.00
2	7.0	11	14	221	409	506	279	14	.85	.00	.91	.00
3	7.1	10	15	242	314	384	350	11	.63	.00	.19	.00
4	5.0	9.0	16	436	288	314	436	8.5	.48	.00	.01	.00
5	24	9.0	15	659	281	273	521	8.4	.41	.00	.00	.00
6	43	8.0	14	822	252	247	445	43	.29	.00	.00	.00
7	49	9.0	13	796	235	229	326	66	.21	.00	.00	.00
8	41	10	26	766	219	206	244	45	.14	.00	.07	.00
9	30	13	72	652	194	186	172	27	.12	.00	.59	.00
10	21	18	67	615	200	168	127	21	.09	.00	.43	.00
11	17	50	67	775	278	153	110	28	.04	.00	.10	.00
12	13	55	108	1000	248	138	103	20	.02	.00	.01	.00
13	11	45	230	1070	425	125	95	14	.01	.00	.00	.00
14	10	40	288	925	777	116	90	9.7	.01	.00	.00	.00
15	8.9	35	282	703	929	108	85	7.0	.01	.00	.00	.00
16	7.7	35	280	499	762	101	80	4.9	.00	.00	.00	.00
17	7.6	30	272	354	656	138	72	3.3	.01	.00	.00	.00
18	12	30	252	278	565	281	61	2.4	.00	.00	.00	.00
19	14	25	249	240	684	317	49	1.7	.00	.00	.00	.00
20	55	25	296	213	978	467	41	1.4	.00	.00	.00	.00
21	75	20	282	203	1180	634	35	1.5	.00	.00	.00	.00
22	55	20	298	207	1380	660	30	6.5	.00	.00	.00	.00
23	30	18	382	213	1470	538	25	16	.00	.00	.00	.00
24	25	16	406	217	1310	379	21	13	.00	.01	.00	.00
25	25	15	377	244	1310	251	18	6.4	.00	.00	.00	.00
26	25	14	325	402	1320	177	15	3.2	.00	.00	.00	.00
27	20	14	275	388	1110	134	13	1.8	.00	.00	.00	.00
28	18	13	227	408	857	110	20	1.2	.00	.00	.00	.00
29	16	14	189	560	---	98	37	.96	.00	.00	.00	.00
30	14	15	166	683	---	98	27	.97	.00	.00	.00	.00
31	13	---	160	664	---	237	---	1.3	---	.00	.00	---
TOTAL	702.1	638.0	5678	15707	19172	8451	4189	408.13	4.42	.01	2.85	.00
MEAN	22.6	21.3	183	507	685	273	140	13.2	.15	.000	.092	.000
MAX	75	55	406	1070	1470	678	521	66	1.1	.01	.91	.00
MIN	2.8	8.0	13	203	194	98	13	.96	.00	.00	.00	.00
CFM	.08	.08	.68	1.89	2.55	1.02	.52	.05	.001	.000	.000	.000
IN.	.10	.09	.79	2.17	2.65	1.17	.58	.06	.00	.00	.00	.00
CAL YR 1989	TOTAL	31119.75	MEAN	85.3	MAX	1900	MIN	.04	CFM	.32	IN	4.30
WTR YR 1990	TOTAL	54952.51	MEAN	151	MAX	1470	MIN	.00	CFM	.56	IN	7.60

SUWANNEE RIVER BASIN

02318725 OKAPILCO CREEK AT QUITMAN, GA.

LOCATION.--Lat 30°47'10", long 83°31'33", Brooks County, Hydrologic Unit 03110203, at U.S. Highways 84 and 221, 1.8 mi east of Quitman.

DRAINAGE AREA.--278 mi², approximately.

PERIOD OF RECORD.--November 1974 to current year. Published as Okapilco Creek near Quitman, water years 1974 through 1982.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 19...	1310	20	118	114	6.8	6.6	20.0	13.0	4.9	55
NOV 16...	1405	22	110	107	6.8	6.7	14.5	16.0	6.3	63
DEC 21...	1325	305	88	88	6.4	6.1	7.5	9.0	12.2	102
JAN 18...	1055	310	78	79	6.3	6.3	12.0	21.0	9.6	89
FEB 22...	1120	1100	61	60	6.3	5.9	15.5	24.0	6.8	69
MAR 28...	1330	135	72	74	6.7	6.3	17.0	23.0	7.0	73
APR 19...	1220	47	77	80	6.5	6.4	18.0	20.0	8.0	85
MAY 17...	1230	--	68	70	7.1	6.5	24.0	32.0	5.3	64
JUN 21...	1230	0.05	96	100	8.4	7.1	35.0	33.5	4.0	58
JUL 16...	1320	0.0	158	162	6.7	6.6	31.0	30.5	5.7	77

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	130	15	3.7	1700	20	0.770	0.740	0.440	--
NOV 16...	120	8.0	4.8	300	23	0.240	0.400	0.200	12
DEC 21...	100	11	2.7	<20	4	0.480	0.130	0.170	14
JAN 18...	110	6.0	1.2	130	9	0.240	0.100	0.100	18
FEB 22...	240	19	1.3	490	5	0.140	0.100	0.130	17
MAR 28...	120	12	1.4	20	9	0.290	0.060	0.200	16
APR 19...	110	11	0.4	20	10	0.340	0.060	0.210	15
MAY 17...	110	13	1.2	220	12	0.220	0.030	0.200	14
JUN 21...	60	14	8.4	1800	15	1.13	0.050	0.240	8.4
JUL 16...	70	19	1.4	790	11	5.14	2.30	0.870	7.4

SUWANNEE RIVER BASIN

02318960 WITHLACOOCHEE RIVER NEAR CLYATTVILLE, GA.

LOCATION.--Lat 30°38'07", long 83°18'41", Lowndes County, Hydrologic Unit 03110203, at bridge on State Highway 31, 4.3 mi south of Clyattville.

DRAINAGE AREA.--2,030 mi², approximately.

PERIOD OF RECORD.--November 1974 to current year.

REMARKS.--Streamflow includes return flow by the City of Valdosta. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 19...	1140	135	214	207	7.5	7.6	21.0	13.5	5.1	58
NOV 16...	1235	140	200	189	7.5	7.6	19.0	15.5	5.7	62
DEC 21...	1200	1610	87	89	6.5	6.5	8.0	9.0	13.2	112
JAN 18...	0950	7660	55	48	6.0	5.8	11.5	16.5	10.2	94
FEB 22...	1020	4930	58	57	6.3	6.0	16.0	24.0	7.1	73
MAR 28...	1200	3800	86	250	7.2	7.2	17.5	23.0	7.7	81
APR 19...	1100	620	116	120	6.9	7.2	19.0	21.0	7.5	81
MAY 17...	1110	185	180	187	7.2	7.6	24.0	27.5	5.9	71
JUN 21...	1115	105	232	234	7.6	7.9	26.0	32.0	6.3	79
JUL 16...	1150	180	180	182	7.2	7.8	26.0	30.0	5.2	65
AUG 21...	1110	100	208	205	7.3	7.8	25.5	32.0	6.0	74
SEP 17...	1130	80	253	257	7.3	7.9	25.0	30.0	5.7	70

SUWANNEE RIVER BASIN

02318960 WITHLACOOCHEE RIVER NEAR CLYATTVILLE, GA.--Continued

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	4	1.0	1.3	20	81	< 1	0.500	<0.030	0.270	--
NOV 16...	40	4.0	0.9	20	66	5	0.750	0.030	0.280	5.0
DEC 21...	120	16	2.3	<20	8	7	0.300	0.050	0.170	19
JAN 18...	120	20	0.5	200	5	6	0.090	<0.030	0.080	31
FEB 22...	240	12	1.0	230	6	3	0.130	<0.030	0.120	15
MAR 28...	60	5.0	1.1	20	105	3	0.210	<0.030	0.080	7.7
APR 19...	110	7.0	0.1	50	30	8	0.420	0.050	0.180	12
MAY 17...	30	6.0	1.6	<20	71	7	0.310	<0.030	0.160	6.5
JUN 21...	10	1.0	0.8	<20	95	< 1	0.180	<0.030	0.170	3.6
JUL 16...	50	3.0	0.5	70	67	3	0.190	<0.030	0.130	6.0
AUG 21...	10	1.0	0.5	<20	83	1	0.120	<0.030	0.200	4.0
SEP 17...	10	1.0	0.3	50	104	1	0.110	0.050	0.220	26

OCHLOCKONEE RIVER BASIN

02327205 OCHLOCKONEE RIVER NEAR MOULTRIE, GA.

LOCATION.--Lat 31°08'31", long 83°48'13", Colquitt County, Hydrologic Unit 03120002, at bridge on county road 1 mi from U.S. Highway 319, and 3.0 mi south of Moultrie.

DRAINAGE AREA.--103 mi².

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 18...	0720	3.5	730	729	7.1	7.1	22.5	20.0	3.6	42
NOV 15...	0915	14	365	367	6.9	6.8	6.0	4.0	4.6	38
DEC 20...	0950	190	118	115	6.8	6.5	6.0	4.0	9.7	79
JAN 17...	0900	150	95	96	6.5	6.4	11.0	12.5	8.5	77
FEB 21...	0905	430	74	71	6.5	6.2	14.0	11.5	7.5	73
MAR 27...	0900	50	141	140	6.6	6.7	16.0	11.5	7.8	80
APR 18...	0900	18	158	169	6.6	6.6	18.0	21.0	5.1	55
MAY 16...	0805	2.9	605	795	7.0	7.2	24.0	24.0	3.9	47
JUN 20...	0900	2.1	905	941	7.2	7.4	27.0	27.0	3.6	46
JUL 17...	0845	4.0	590	610	7.0	7.2	26.0	27.0	3.7	46
AUG 22...	0855	3.1	860	970	7.2	7.4	26.0	29.0	3.9	49
SEP 18...	0825	3.2	920	933	7.2	7.3	19.0	15.0	4.8	53

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	30	2.0	1.2	220	73	<1	6.38	0.030	1.91	-
NOV 15...	60	3.0	1.6	300	35	3	3.21	0.360	1.02	13
DEC 20...	70	11	1.8	<20	12	2	1.15	0.360	0.260	9.8
JAN 17...	65	14	1.2	140	7	2	0.750	0.100	0.220	12
FEB 21...	140	18	2.4	790	8	6	0.570	0.150	0.230	10
MAR 27...	100	11	1.2	170	16	8	1.43	0.210	0.320	12
APR 18...	80	17	0.9	190	16	4	2.20	0.150	0.500	13
MAY 16...	10	2.0	0.9	230	73	2	8.00	0.130	1.24	7.8
JUN 20...	15	2.0	0.9	170	107	6	9.00	0.070	1.83	7.2
JUL 17...	20	2.0	0.5	790	78	1	0.990	0.050	1.16	6.5
AUG 22...	10	2.0	1.5	230	107	2	4.68	<0.030	2.22	7.1
SEP 18...	10	1.0	0.7	310	101	1	6.06	0.060	2.62	6.8

OCHLOCKONEE RIVER BASIN

02327500 OCHLOCKONEE RIVER NEAR THOMASVILLE, GA.

LOCATION.--Lat 30°52'32", long 84°02'44", Thomas County, Hydrologic Unit 03120002, at bridge on U.S. Highway 84, 2 mi upstream from Seaboard Coast Line Railroad bridge, 4 mi upstream from Barnetts Creek, 5 mi northwest of Thomasville, and 6 mi downstream from Little Ochlockonee River.

DRAINAGE AREA.--550 mi², approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Records of discharge for the water years 1937-71 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 18...	0830	36	200	199	7.0	6.9	22.5	20.0	5.5	65
NOV 15...	1020	92	187	184	6.9	6.9	17.0	24.0	7.0	74
DEC 20...	1050	920	77	75	6.8	6.5	7.0	6.0	10.5	87
JAN 17...	1005	1200	72	72	6.6	6.3	10.0	18.0	10.0	89
FEB 21...	1020	3400	54	51	6.2	6.0	15.0	12.0	7.6	76
MAR 27...	1015	330	84	84	6.7	6.5	16.5	13.5	7.2	74
APR 18...	0945	200	105	110	6.7	6.6	18.0	23.0	6.9	74
MAY 16...	0920	70	195	210	6.9	6.9	24.0	27.0	5.5	66
JUN 20...	0940	--	268	292	7.2	7.2	28.0	31.0	5.2	68
JUL 17...	0930	--	242	252	7.2	7.4	26.5	29.5	5.4	68
AUG 22...	0950	--	675	728	7.4	7.6	27.0	29.0	6.9	88
SEP 26...	0915	--	640	664	7.5	7.6	20.0	22.0	7.8	87

OCHLOCKONEE RIVER BASIN

02327500 OCHLOCKONEE RIVER NEAR THOMASVILLE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LILITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	40	7.0	2.0	230	31	1.16	0.050	0.600	--
NOV 15...	60	8.0	1.0	80	23	0.920	0.050	0.400	12
DEC 20...	140	25	1.9	<20	8	0.350	0.080	0.040	11
JAN 17...	60	15	0.9	<20	7	0.450	<0.030	0.160	8.5
FEB 21...	140	24	2.1	1300	5	0.180	0.080	0.130	12
MAR 27...	100	10	0.6	330	12	0.520	0.190	0.080	12
APR 18...	110	11	0.6	20	15	0.720	0.080	0.290	10
MAY 16...	60	8.0	0.9	20	29	1.32	0.050	0.520	9.0
JUN 20...	30	7.0	0.9	--	50	1.63	0.050	0.810	7.7
JUL 17...	60	36	0.7	110	55	1.30	0.130	0.800	6.4
AUG 22...	20	3.0	2.0	65	103	3.27	0.040	2.38	7.2
SEP 26...	10	2.0	0.5	50	87	2.94	0.040	1.81	5.6

OCHLOCKONEE RIVER BASIN

02328200 OCHLOCKONEE RIVER NEAR CALVARY, GA.

LOCATION.--Lat 30°43'53", long 84°14'12", Grady County, Hydrologic Unit 03120003, at county highway bridge, 1.5 mi downstream from Tired Creek, and 6.5 mi east of Calvary.

DRAINAGE AREA.--930 mi², approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 18...	0910	110	210	208	7.0	6.9	22.5	21.5	6.6	78
NOV 15...	1120	365	172	173	6.9	6.6	17.0	25.0	8.4	88
DEC 20...	1130	1570	149	142	6.9	6.6	7.0	7.5	10.2	84
JAN 17...	1105	2350	103	--	6.6	6.2	10.0	20.5	9.6	85
FEB 21...	1100	4700	60	57	6.3	6.0	15.0	15.0	7.1	71
MAR 26...	1100	1200	103	99	6.6	6.5	16.5	15.0	7.1	73
APR 18...	1040	555	120	127	6.7	6.6	18.5	23.0	7.0	75
MAY 16...	1010	88	155	176	7.0	6.9	24.0	29.0	6.0	72
JUN 20...	1040	50	210	234	7.2	7.1	28.0	34.0	6.0	78
JUL 17...	1030	64	335	342	7.3	7.3	26.5	32.5	6.1	76
AUG 22...	1030	27	236	251	7.1	7.2	27.5	31.0	5.9	76
SEP 26...	1010	16	545	660	7.2	7.3	20.5	25.0	7.1	80

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 18...	40	12	--	1.3	110	30	8
NOV 15...	70	11	--	1.4	300	16	40
DEC 20...	100	20	--	1.8	<20	12	15
JAN 17...	70	18	--	1.2	20	5	3
FEB 21...	140	38	--	2.1	2200	7	11
MAR 26...	120	11	--	0.6	65	10	8
APR 18...	60	13	--	0.6	<20	14	8
MAY 16...	60	12	--	0.9	20	30	4
JUN 20...	60	10	--	0.9	110	38	9
JUL 17...	60	13	21	0.5	<50	45	8
AUG 22...	40	8.0	19	1.7	40	46	3
SEP 26...	25	4.0	28	0.5	50	60	4

OCHLOCKONEE RIVER BASIN

02328200 OCHLOCKONEE RIVER NEAR CALVARY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	1.19	<0.030	--	--	--	0.330	--
NOV 15...	0.540	0.070	--	--	--	0.240	11
DEC 20...	0.480	0.120	--	--	--	0.230	6.1
JAN 17...	1.05	0.050	--	--	--	0.100	15
FEB 21...	0.210	0.050	--	--	--	0.140	11
MAR 26...	0.450	0.090	--	--	--	0.030	12
APR 18...	0.670	0.090	--	--	--	0.220	9.4
MAY 16...	1.15	0.040	--	--	--	0.260	8.1
JUN 20...	1.36	0.040	--	--	--	0.330	7.8
JUL 17...	0.760	0.060	0.54	0.60	1.4	0.320	8.8
AUG 22...	1.02	0.040	0.36	0.40	1.4	0.310	8.2
SEP 26...	1.62	0.080	0.32	0.40	2.0	0.310	4.8

APALACHICOLA RIVER BASIN

02330450 CHATTAHOOCHEE RIVER AT HELEN, GA.

LOCATION.--Lat 34°42'03", long 83°43'44", White County, Hydrologic Unit 03130001, on downstream side of bridge on Georgia Highways 17 and 75 at Helen, and 1.1 mi downstream from Smith Creek.

DRAINAGE AREA.--44.7 mi².

PERIOD OF RECORD.--May 1981 to current year. Miscellaneous low-flow measurements, water years 1953, 1955.

GAGE.--Water-stage recorder. Datum of gage is 1,404.04 ft above National Geodetic Vertical Datum of 1929.

AVERAGE DISCHARGE.--9 years, 124 ft³/s, 37.67 in./yr.

REMARKS.--No estimated daily discharges. Records good. Some regulation at low-flow on Smith Creek by Unicoi Lake at Unicoi State Park.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,850 ft³/s, Mar. 17, 1990, gage height, 5.94 ft; minimum discharge, 19 ft³/s, Oct. 6-8, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 23, 1967, reached a discharge of 11,000 ft³/s from contracted-opening computation at highway bridge 2 mi downstream at a drainage area of 48.2 mi².

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1415	1,800	4.26	Feb. 16	0645	2,790	5.22
Feb. 10	0415	1,470	3.79	Mar. 17	0600	*3,850	*5.94

Minimum discharge, 30 ft³/s, Sept. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1270	104	105	242	221	294	259	139	100	56	51	43
2	630	103	104	176	217	414	251	134	102	55	53	40
3	357	101	100	157	213	477	243	132	110	52	57	37
4	269	98	99	183	391	364	236	130	99	50	53	36
5	227	97	99	171	294	324	230	133	95	49	64	35
6	203	112	98	185	251	300	227	123	92	48	59	34
7	184	106	101	179	241	283	207	120	89	48	50	33
8	170	126	205	206	220	305	196	117	87	50	49	32
9	159	125	178	189	251	319	192	247	88	50	67	144
10	152	107	161	173	807	303	220	343	85	50	61	123
11	147	100	146	162	416	285	207	194	80	47	48	113
12	140	97	249	153	331	271	184	161	79	56	46	364
13	136	95	216	144	294	260	176	158	78	88	44	363
14	132	97	173	140	273	252	174	144	77	135	46	214
15	129	160	159	138	261	245	176	136	75	99	45	149
16	130	244	142	134	1480	696	166	134	75	59	43	108
17	155	140	133	132	755	2000	161	139	76	85	41	88
18	141	121	129	136	537	793	156	124	73	88	40	78
19	131	113	130	129	509	585	151	120	70	92	39	73
20	125	109	123	210	428	507	151	164	67	121	39	70
21	121	105	119	340	383	450	157	141	66	136	52	71
22	117	146	113	211	500	406	152	129	66	98	51	116
23	114	184	101	182	471	375	152	123	64	152	50	72
24	112	138	103	196	397	356	146	118	62	84	42	65
25	111	127	104	364	351	336	141	114	60	72	56	63
26	108	121	101	291	325	327	138	111	60	65	42	60
27	107	116	101	235	310	305	135	110	62	61	40	58
28	106	120	106	211	300	287	184	117	63	60	38	57
29	105	109	105	298	---	286	158	110	60	58	38	56
30	105	107	116	292	---	289	147	102	57	55	69	55
31	107	---	352	243	---	276	---	100	---	53	61	---
TOTAL	6200	3628	4271	6202	11427	12970	5473	4367	2317	2272	1534	2850
MEAN	200	121	138	200	408	418	182	141	77.2	73.3	49.5	95.0
MAX	1270	244	352	364	1480	2000	259	343	110	152	69	364
MIN	105	95	98	129	213	245	135	100	57	47	38	32
CFSM	4.47	2.71	3.09	4.47	9.13	9.35	4.07	3.15	1.73	1.64	1.11	2.13
IN.	5.16	3.02	3.55	5.16	9.51	10.79	4.55	3.63	1.93	1.89	1.28	2.37
CAL YR 1989	TOTAL	60379	MEAN	165	MAX	1270	MIN	77	CFSM	3.69	IN	50.25
WTR YR 1990	TOTAL	63511	MEAN	174	MAX	2000	MIN	32	CFSM	3.89	IN	52.85

APALACHICOLA RIVER BASIN

02330453 CHATTAHOOCHEE RIVER AT NACOOCHEE, GA.

WATER-QUALITY RECORDS

LOCATION.—Lat 34°41'13", long 83°42'37", White County, Hydrologic Unit 03130001, at bridge on State Highways 17 and 75 at Nacoochee, 700 ft north of the intersection of State Highways 17 and 25, and 1.0 mi upstream from Dukes Creek.

DRAINAGE AREA.—47.5 mi², revised.

PERIOD OF RECORD.—July 1977 to May 1979, July 1990 to September 1990.

REMARKS.—Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
JUL 19...	0900	108	—	18	6.8	6.8	20.0	27.5	8.7	—
SEP 13...	1000	620	17	17	6.7	6.5	19.0	27.0	8.7	98

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUL 19...	14	1.3	1100	6	0.060	<0.030	0.080	2.9
SEP 13...	26	0.8	1300	6	0.070	<0.030	0.050	6.9

APALACHICOLA RIVER BASIN

02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA.

LOCATION.--Lat 34°32'27", long 83°37'14", Habersham-White County line, Hydrologic Unit 03130001, on downstream side of bridge on Duncan Bridge Road (Georgia Highway 384), 1 mi downstream from Soque River, 6 mi northwest of Cornelia, and at mile 401.4.
DRAINAGE AREA.--315 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 2106: 1963(M).

GAGE.--Water-stage recorder. Datum of gage is 1,128.53 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--No estimated daily discharges. Records good. Some regulation at low flow from Habersham Mill powerplant.

AVERAGE DISCHARGE.--33 years, 819 ft³/s, 35.31 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,400 ft³/s, Mar. 12, 1963, gage height, 20.55 ft, from rating curve extended above 13,000 ft³/s on basis of contracted-opening measurement of peak flow; minimum daily discharge, 91 ft³/s, Sept. 7, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1530	15,400	12.74	Feb. 16	1700	8,080	7.86
Feb. 10	1130	6,490	6.68	Mar. 17	1030	*18,900	*15.07

Minimum daily discharge, 270 ft³/s, Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10900	613	622	1630	1160	1350	1440	923	639	368	381	349
2	4240	599	610	1080	1120	1950	1410	886	652	365	385	322
3	2030	590	595	928	1120	3160	1370	865	708	347	406	311
4	1540	582	590	1010	1960	1930	1330	857	671	335	541	309
5	1310	579	585	1040	1560	1640	1300	855	618	331	480	296
6	1170	653	580	1130	1290	1490	1290	813	599	322	593	288
7	1070	674	583	1050	1250	1410	1270	805	588	318	438	284
8	968	694	1230	1240	1150	1510	1210	780	574	332	396	270
9	902	709	1190	1110	1210	1840	1200	987	560	345	400	631
10	863	628	1110	1010	4410	1770	1210	1840	573	377	462	445
11	833	596	917	934	2200	1600	1360	1130	540	384	386	709
12	801	570	1810	880	1670	1460	1190	957	513	365	367	969
13	776	584	1620	840	1470	1390	1150	945	505	478	363	2030
14	760	566	1130	820	1370	1350	1130	882	499	1260	361	1710
15	740	745	980	808	1310	1320	1160	819	490	1120	372	1160
16	731	1420	892	790	4500	2850	1120	813	477	558	367	719
17	855	860	819	776	3110	14100	1080	845	508	452	335	571
18	802	729	802	796	2110	4100	1050	781	494	537	327	497
19	769	676	793	770	2390	2740	1020	733	461	530	331	462
20	711	656	772	877	1900	2360	1020	1040	442	538	331	443
21	693	633	740	2830	1680	2050	1040	1040	431	1070	335	421
22	672	702	707	1370	1860	1900	1020	842	428	1090	467	849
23	679	1420	702	1100	1900	1820	1010	784	416	1270	675	559
24	658	900	700	1070	1640	1730	984	745	405	723	554	458
25	650	785	688	3070	1500	1680	950	720	401	605	414	425
26	643	741	670	1950	1440	1640	925	704	393	514	368	403
27	629	712	675	1400	1400	1580	907	700	390	464	358	392
28	626	701	654	1220	1370	1520	1120	736	410	434	331	377
29	618	662	644	1420	---	1520	1170	791	398	427	314	367
30	617	635	698	1540	---	1520	988	674	384	448	335	366
31	631	---	1610	1260	---	1530	---	650	---	405	496	---
TOTAL	39887	21614	26718	37749	51050	69810	34424	26942	15167	17112	12669	17392
MEAN	1287	720	862	1218	1823	2252	1147	869	506	552	409	580
MAX	10900	1420	1810	3070	4500	14100	1440	1840	708	1270	675	2030
MIN	617	566	580	770	1120	1320	907	650	384	318	314	270
CFSM	4.09	2.29	2.74	3.87	5.79	7.15	3.64	2.76	1.61	1.75	1.30	1.84
IN.	4.71	2.55	3.16	4.46	6.03	8.24	4.07	3.18	1.79	2.02	1.50	2.05
CAL YR 1989	TOTAL	314594	MEAN	862	MAX	10900	MIN	296	CFSM	2.74	IN	37.15
WTR YR 1990	TOTAL	370534	MEAN	1015	MAX	14100	MIN	270	CFSM	3.22	IN	43.76

APALACHICOLA RIVER BASIN

02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory analyses with analyzing code 84213 are by the U.S. Geological Survey. Laboratory analyses with analyzing agency code 81341 are by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 15...	1130	81341	694	28	26	6.9	6.6	15.5	17.0	8.8	92
JAN 10...	1110	81341	1000	28	27	6.8	6.6	8.0	12.5	11.3	99
MAR 14...	1250	81341	1350	23	22	6.9	6.5	15.0	26.5	9.8	101
MAY 09...	1230	81341	802	25	24	6.5	7.0	16.0	19.0	9.0	95
JUL 19...	0820	81341	546	--	26	6.7	6.8	21.5	24.5	7.9	--
SEP 13...	0920	81341	3500	24	25	6.7	6.5	21.0	23.5	7.9	92

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 15...	81341	5.0	1.7	80	6	0.260	0.100	0.060	0.7
JAN 10...	81341	10	0.4	20	7	0.450	0.040	0.050	1.4
MAR 14...	81341	8.0	0.0	110	6	0.310	0.090	0.060	1.9
MAY 09...	81341	5.0	0.7	490	8	0.280	0.050	0.080	1.2
JUL 19...	81341	20	0.8	790	8	0.280	0.350	0.080	3.0
SEP 13...	81341	330	3.2	7900	5	0.250	0.060	0.170	30

APALACHICOLA RIVER BASIN

02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT						
19...	1306	84213	759	16.0	8	16
19...	1311	84213	759	16.0	8	16
NOV						
30...	1233	84213	631	7.5	3	5.1
30...	1238	84213	631	7.5	4	6.8
JAN						
11...	1050	84213	921	7.0	6	15
11...	1055	84213	921	7.0	7	17
FEB						
27...	1429	84213	1400	7.5	9	34
27...	1434	84213	1400	7.5	7	26
MAR						
17...	1247	84213	18000	--	816	39700
17...	1507	84213	15600	--	646	27200
17...	1512	84213	15600	--	661	27900
17...	1621	84213	12900	--	605	21100
26...	1523	84213	1610	13.5	11	48
26...	1528	84213	1610	13.5	9	39
MAY						
10...	0945	84213	1970	15.0	83	441
10...	0950	84213	1970	15.0	86	457
JUN						
19...	1428	84213	361	23.5	9	8.8
19...	1433	84213	361	23.5	9	8.8
AUG						
06...	1308	84213	619	24.0	16	27
06...	1313	84213	619	24.0	16	27
SEP						
10...	1335	84213	467	24.0	26	33
10...	1340	84213	467	24.0	28	35
DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM		
MAR						
17...	1242	84213	18000	43		
17...	1507	84213	15600	38		

APALACHICOLA RIVER BASIN

02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM
SEP											
28...	1007	84213	777	<1	<1	1	11	53	93	98	100
28...	1008	84213	777	<1	<1	1	37	74	92	98	100
28...	1009	84213	777	<1	<1	2	49	88	98	100	--
28...	1010	84213	777	<1	<1	4	56	84	96	100	100

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
JUL							
31...	0815	84213	396	<1	1	7	55
31...	0816	84213	396	2	2	9	49
31...	0817	84213	396	<1	1	13	78
31...	0818	84213	396	1	3	30	74

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
JUL						
31...	71	74	76	81	93	100
31...	67	72	80	91	100	--
31...	90	97	100	--	--	--
31...	90	98	100	--	--	--

APALACHICOLA RIVER BASIN

02333500 CHESTATEE RIVER NEAR DAHLONEGA, GA.

LOCATION.--Lat 34°31'41", long 83°56'23", Lumpkin County, Hydrologic Unit 03130001, on left bank 250 ft upstream from Bearden Bridge on State Highway 52, 2 mi downstream from Ballplay Creek, 2.5 mi east of Dahlonega, and 3.5 mi upstream from Yahoola Creek.

DRAINAGE AREA.--153 mi².

PERIOD OF RECORD.--July 1929 to January 1932, April 1940 to current year. Monthly discharge only for July 1929, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 1,128.6 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--52 years (water years 1930-31, 1941-90), 362 ft³/s, 32.13 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,700 ft³/s, Aug. 23, 1967, gage height, 25.17 ft; minimum daily, 44 ft³/s, Aug. 6, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 12, 1907 reached a stage of about 25 ft, from information by local resident. Flow increased by failure of dam above station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0245	5,290	9.99	Feb. 16	1630	4,610	9.11
Oct. 1	1515	7,070	12.12	Mar. 2	2330	2,620	6.19
Jan. 21	0245	3,030	6.82	Mar. 17	0945	*11,600	*16.76
Feb. 10	0845	4,550	9.03				

Minimum daily discharge, 102 ft³/s, Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5350	245	303	1100	629	740	712	430	294	159	183	132
2	2190	242	290	627	599	1150	692	410	303	160	193	125
3	1080	238	281	507	600	1670	677	404	322	151	201	118
4	769	233	277	598	1240	1040	649	403	306	145	182	113
5	608	233	277	587	973	913	633	402	282	142	326	110
6	524	277	272	660	767	848	634	376	272	139	270	109
7	470	285	272	578	734	798	622	367	265	141	204	105
8	426	310	614	657	649	850	591	357	262	159	186	102
9	394	322	574	579	750	1090	579	513	260	194	183	274
10	376	273	545	514	3130	1040	597	1090	258	196	205	160
11	359	252	451	474	1400	899	661	602	238	171	180	189
12	342	243	1110	445	1030	828	572	491	228	172	167	232
13	326	238	865	414	894	785	551	470	223	301	160	804
14	319	238	572	400	813	750	545	431	220	640	161	1120
15	309	393	483	388	765	721	559	400	216	453	162	528
16	310	976	431	377	2720	1920	527	392	211	243	167	285
17	379	464	394	368	1800	7640	512	411	216	205	150	213
18	345	371	372	389	1230	2050	497	377	209	193	144	181
19	330	334	369	368	1400	1440	481	355	201	198	141	166
20	298	315	357	543	1100	1220	481	511	191	531	137	155
21	290	303	338	1860	984	1100	488	490	186	463	140	152
22	282	360	321	800	1090	1020	481	404	186	565	146	514
23	277	783	306	607	1050	967	491	374	187	637	158	255
24	269	457	318	600	939	912	461	354	176	366	146	190
25	266	395	303	1860	870	879	440	340	171	311	137	169
26	261	363	297	1160	824	853	428	333	169	248	133	156
27	256	340	291	820	792	825	419	337	179	220	129	146
28	253	343	288	688	763	783	554	348	199	206	124	141
29	250	321	282	815	---	776	536	352	170	209	122	141
30	250	305	342	883	---	778	454	309	167	212	136	135
31	249	---	1200	709	---	760	---	297	---	187	156	---
TOTAL	18407	10452	13395	21375	30535	38045	16524	13130	6767	8317	5229	7220
MEAN	594	348	432	690	1091	1227	551	424	226	268	169	241
MAX	5350	976	1200	1860	3130	7640	712	1090	322	640	326	1120
MIN	249	233	272	368	599	721	419	297	167	139	122	102
CFSM	3.88	2.28	2.82	4.51	7.13	8.02	3.60	2.77	1.48	1.75	1.11	1.58
IN.	4.48	2.54	3.26	5.20	7.42	9.25	4.02	3.19	1.65	2.02	1.27	1.76
CAL YR 1989	TOTAL	152673	MEAN	418	MAX	5350	MIN	160	CFSM	2.73	IN	37.12
WTR YR 1990	TOTAL	189396	MEAN	519	MAX	7640	MIN	102	CFSM	3.39	IN	46.05

APALACHICOLA RIVER BASIN

02333500 CHESTATEE RIVER NEAR DAHLONEGA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT					
19...	1535	318	14.5	6	5.2
19...	1540	318	14.5	7	6.0
NOV					
30...	1707	302	7.5	3	2.4
30...	1712	302	7.5	4	3.3
JAN					
11...	1343	473	7.5	11	14
11...	1348	473	7.5	13	17
FEB					
27...	1106	791	6.5	9	19
27...	1111	791	6.5	15	32
MAR					
26...	1112	836	13.5	30	68
26...	1117	836	13.5	39	88
MAY					
10...	1306	1050	16.0	112	316
10...	1311	1050	16.0	116	328
JUN					
19...	1115	204	22.0	8	4.4
19...	1120	204	22.0	9	5.0
AUG					
06...	0908	284	22.5	35	27
06...	0913	284	22.5	37	28
SEP					
10...	0918	150	22.5	68	28
10...	0923	150	22.5	63	26

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
SEP											
28...	1136	302	<1	<1	3	22	62	81	90	97	100
28...	1137	302	<1	<1	<1	23	80	92	94	95	100
28...	1138	302	<1	<1	11	39	66	80	88	99	100
28...	1139	302	<1	<1	2	19	78	99	100	--	--

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
JUL											
31...	0950	185	<1	<1	1	8	11	13	88	91	100
31...	0951	185	<1	1	4	38	57	61	63	67	--
31...	0952	185	<1	<1	2	17	46	85	98	100	--
31...	0953	185	<1	1	3	30	70	88	96	100	--

APALACHICOLA RIVER BASIN

02334430 CHATTAHOOCHEE RIVER AT BUFORD DAM, NEAR BUFORD, GA.

LOCATION.--Lat 34°09'25", long 84°04'44", Gwinnett-Forsyth County line, Hydrologic Unit 03130001, on right bank 1,200 ft downstream from Buford Dam, 2.4 mi upstream from bridge on State Highway 20, 4 mi northwest of Buford, and at mile 348.1.

DRAINAGE AREA.--1,040 mi², approximately.

PERIOD OF RECORD.--July to December 1901 (figures of daily discharge for the months of August and December, published in WSP 197, are unreliable and should not be used), October 1941 to current year. Prior to October 1971, published as 02334500, Chattahoochee River "near Buford". Monthly discharge only for July to December 1901, October 1941 to January 1942, published in WSP 1304.

REVISED RECORDS.--WRD GA-79-1: 1972-78 (maximum gage heights only). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 912.04 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). June 24 to Dec. 21, 1901, Jan. 27, 1942, to Dec. 3, 1944, nonrecording gage, and Dec. 4, 1944, to Dec. 31, 1947, water-stage recorder at site 2.5 mi downstream, and Jan. 1, 1948, to Sept. 30, 1971, water-stage recorder at site 2.4 mi downstream, all at different datum.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Lake Sidney Lanier beginning January 1956 (See "Lakes and Reservoirs in Apalachicola River basin", station 02334400.)

AVERAGE DISCHARGE.--49 years, 2,076 ft³/s, 27.11 in/yr, adjusted for storage since 1956.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft³/s, Jan. 8, 1946, gage height, 32.6 ft, from floodmark, from rating curve extended above 13,000 ft³/s on basis of peak flows passing upstream and downstream stations; minimum daily discharge, 262 ft³/s, May 18, 1958.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1921, that of Jan. 8, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,300 ft³/s, Sept. 5, 7, and 27, 5.55 ft; minimum daily discharge, 330 ft³/s, Jan. 13.

REVISIONS.--The maximum gage heights for some water years have been revised, as shown in the following table. These figures supersede those published in the reports for 1986-89.

Water year	Date	Gage height (ft)
1986	July 28, 1986	6.00
1987	September 25, 1987	5.91
1988	October 29, 1987	5.95
1989	January 18, 1989	5.89

APALACHICOLA RIVER BASIN

02334430 CHATTAHOOCHEE RIVER AT BUFORD DAM, NEAR BUFORD, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1	667	3300	1380	3480	7140	7150	7110	2020	2390	2020	2990	599			
2	1250	3010	787	3490	7120	2860	6900	2030	591	4610	3000	957			
3	1100	3300	810	3510	1840	361	7010	2030	603	4510	3030	3260			
4	1080	596	2540	3510	1790	350	7110	2020	1680	4510	1180	3140			
5	1070	594	1580	3510	7070	7090	7140	594	1830	4520	944	3150			
6	1110	4000	1490	341	7130	6980	7190	597	1520	4560	3990	4810			
7	615	3920	1470	504	7140	7100	581	3150	1670	584	3850	3230			
8	620	3990	1480	4350	7170	3340	582	3150	1650	930	3860	757			
9	2350	3930	944	4350	5730	7130	7170	3150	597	3920	3860	781			
10	3620	3990	938	4280	367	405	5350	3130	599	4120	3910	3250			
11	4320	542	1500	4240	1860	343	7200	3140	2420	4170	597	3120			
12	3980	526	1500	4320	7720	6220	7210	591	2280	4150	940	3120			
13	3960	2470	1490	330	9530	6380	6480	593	1840	1220	3960	3170			
14	369	2470	1460	488	9560	6410	585	3150	1840	606	3900	2180			
15	498	2490	1500	3850	4250	4540	586	3150	1900	904	3890	615			
16	4160	2470	672	3920	419	419	4100	3130	593	3490	3900	791			
17	4050	2490	669	3870	2930	747	4110	3160	757	848	4560	615			
18	4060	526	2430	3850	3330	685	4100	3140	2910	1540	600	1320			
19	4060	524	2460	3920	3790	2320	4100	593	2940	3090	948	2220			
20	3640	2060	2800	365	7190	6910	4100	593	3700	3070	2840	2670			
21	522	2860	2390	378	4110	9220	583	2800	3750	591	2710	2730			
22	557	2810	2520	3270	4090	9230	583	2780	3810	937	2720	636			
23	3940	2960	3370	3280	7170	8750	2370	2780	588	1260	2860	792			
24	3960	2550	639	2200	7510	7490	2360	2780	760	1100	2780	3260			
25	3980	541	1720	409	9310	9270	3130	2780	3470	1090	604	3150			
26	4000	549	3830	1070	9310	9300	2380	590	3330	1100	959	3140			
27	4050	1350	3830	341	9540	7460	2370	600	3350	1170	4460	3700			
28	604	1380	3900	335	9570	7140	590	2380	3350	594	3450	3220			
29	569	1340	3870	6720	—	6990	588	2380	3370	943	3450	618			
30	3270	1350	483	7490	—	4220	2020	2380	2250	3080	3460	801			
31	3290	—	520	7090	—	591	—	2380	—	2180	2000	—			
TOTAL	75321	64888	56972	93061	163686	157401	115688	67741	62338	71417	86202	65802			
MEAN	2430	2163	1838	3002	5846	5077	3856	2185	2078	2304	2781	2193			
MAX	4320	4000	3900	7490	9570	9300	7210	3160	3810	4610	4560	4810			
MIN	369	524	483	330	367	343	581	590	588	584	597	599			
MEAN†	3204	1729	1867	3662	5255	6479	2735	2089	992	1192	919	1297			
CFSM†	3.08	1.66	1.80	3.52	5.05	6.23	2.63	2.01	0.95	1.15	0.88	1.25			
IN†	3.55	1.85	2.07	4.06	5.26	7.18	2.93	2.32	1.06	1.32	1.02	1.39			
CAL YR 1989	TOTAL	515940		MEAN	1414	MAX	4320	MIN	348	MEAN†	2102	CFSM†	2.02	IN†	27.44
WTR YR 1990	TOTAL	1080517		MEAN	2960	MAX	9570	MIN	330	MEAN†	2629	CFSM†	2.53	IN†	34.31

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

APALACHICOLA RIVER BASIN

02334885 SUWANEE CREEK NEAR SUWANEE, GA.

LOCATION.--Lat 34°01'56", long 84°05'22", Gwinnett County, Hydrologic Unit 03130001, on upstream side of right bank bridge pier on State Highway 13 (old U.S. Highway 23), 0.2 mi upstream from Bennett Creek, 0.6 mi downstream from Mill Creek, 2.4 mi southwest of Suwanee, and 3.1 mi upstream from mouth.

DRAINAGE AREA.--46.8 mi².

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder. Datum of gage is 909.71 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--6 years, 55.2 ft³/s, 16.02 in./yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,760 ft³/s, Mar. 17, 1990, gage height, 11.42 ft; minimum discharge, 0.80 ft³/s, July 21, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 550 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1300	2,020	10.24	Feb. 17	0200	1,710	9.81
Jan. 21	1700	679	7.77	Feb. 19	1600	769	8.09
Jan. 25	1600	1,380	9.29	Mar. 17	1500	*3,760	*11.42
Feb. 10	1400	597	7.48				

Minimum discharge, 13.0 ft³/s, Aug. 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1530	40	53	174	100	92	98	69	39	17	19	30
2	1010	40	51	89	96	126	93	64	44	17	21	24
3	190	40	50	75	98	255	88	61	46	16	23	22
4	119	39	48	86	251	128	87	61	43	15	20	20
5	90	39	48	101	151	104	84	67	38	15	20	19
6	76	46	47	260	112	97	86	60	35	15	29	18
7	68	61	48	141	109	91	93	57	34	14	21	17
8	62	186	242	148	98	159	85	55	34	14	19	17
9	57	76	164	110	142	295	85	88	33	25	20	16
10	55	55	152	92	498	209	103	101	31	19	28	19
11	53	50	109	81	213	128	146	65	30	18	21	40
12	51	46	211	75	133	108	97	58	28	23	18	22
13	49	44	239	68	116	100	89	66	27	35	17	26
14	50	44	114	65	107	95	87	60	27	103	18	154
15	49	106	93	64	103	90	95	55	26	38	16	56
16	48	407	79	62	618	312	86	52	34	26	15	31
17	48	122	71	62	912	2540	83	52	29	23	14	26
18	49	81	68	74	229	663	79	51	27	27	14	24
19	47	68	77	69	606	218	77	47	26	47	13	24
20	45	61	72	85	286	163	77	46	24	72	13	23
21	44	57	67	522	159	140	79	71	23	41	16	23
22	44	77	60	189	168	128	81	54	24	32	52	101
23	43	289	56	116	152	119	76	47	23	29	130	32
24	43	101	55	138	122	113	73	45	21	26	32	26
25	42	76	55	993	107	108	70	44	20	24	25	24
26	41	69	55	610	102	107	67	42	20	23	23	24
27	40	64	54	180	99	109	65	43	20	22	22	23
28	40	69	54	137	97	100	114	56	19	21	21	23
29	39	63	53	139	---	109	90	52	19	20	20	22
30	40	56	79	132	---	108	73	41	18	20	28	22
31	41	---	123	109	---	104	---	39	---	19	79	---
TOTAL	4203	2572	2747	5246	5984	7218	2606	1769	862	856	827	948
MEAN	136	85.7	88.6	169	214	233	86.9	57.1	28.7	27.6	26.7	31.6
MAX	1530	407	242	993	912	2540	146	101	46	103	130	154
MIN	39	39	47	62	96	90	65	39	18	14	13	16
CFSM	2.91	1.83	1.89	3.61	4.57	4.98	1.86	1.22	.61	.59	.57	.68
IN.	3.34	2.04	2.18	4.17	4.76	5.74	2.07	1.41	.69	.68	.66	.75
CAL YR 1989	TOTAL	27783	MEAN	76.1	MAX	1530	MIN	20	CFSM	1.63	IN	22.08
WTR YR 1990	TOTAL	35838	MEAN	98.2	MAX	2540	MIN	13	CFSM	2.10	IN	28.49

APALACHICOLA RIVER BASIN

02335000 CHATTAHOOCHEE RIVER NEAR NORCROSS, GA.

LOCATION.--Lat 33°59'50", long 84°12'07", Gwinnett-Fulton County line, Hydrologic Unit 03130001, on downstream side of right bank pier of bridge on State Highway 141, 1.5 mi upstream from John Creek, 4.5 mi north of Norcross, 6.5 mi downstream from Suwanee Creek, 18 mi downstream from Buford Dam, and at mile 330.8.

DRAINAGE AREA.--1,170 mi², approximately.

PERIOD OF RECORD.--October 1902 to September 1946, October 1956 to current year. Monthly discharge only for October to December 1902, published in WSP 1304. Gage-height records collected at same site 1910-33, and since 1945 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 878.14 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 13, 1955, nonrecording gage at site 500 ft downstream at same datum. July 14, 1955 to Mar. 11, 1957, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversion and return flow above station regulated by Gwinnett County.

AVERAGE DISCHARGE.--78 years (water years 1903-46, 1957-90), 2,280 ft³/s, 26.46 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft³/s, Jan. 8, 1946, gage height, 27.7 ft, from rating curve extended above 36,000 ft³/s on basis of computation of peak flow over Morgan Falls Dam; minimum observed, 132 ft³/s, Aug. 25, 1925.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1896, that of Jan. 8, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,000 ft³/s, Mar. 17, gage height, 11.99 ft; minimum daily, 570 ft³/s, Oct. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	5200	3690	1740	2700	7750	7760	5250	2290	2590	2330	3030	932		
2	4270	3870	1660	4200	7750	5010	7550	2270	1690	3550	3120	838		
3	1330	3720	1070	4150	4400	2730	7550	2280	691	4640	3140	2930		
4	1490	2000	2360	4200	2690	850	7550	2270	1460	4650	1570	3280		
5	1400	744	1870	4250	5810	4880	7570	1280	1770	4670	1250	3290		
6	1360	2680	1740	2830	7730	7580	7590	770	1780	4670	2990	3820		
7	1410	4510	1740	1030	7800	7650	3220	1920	1740	2240	3960	4380		
8	782	4830	2210	3530	7770	5980	875	3360	1770	777	3970	1370		
9	1570	4600	2500	4750	7830	6280	5180	3510	1110	2940	4000	774		
10	3580	4510	1380	5480	3230	3820	7300	3500	673	4520	4070	2930		
11	5010	2650	1770	5040	2580	827	6180	3430	1870	4270	1970	3370		
12	4410	765	2160	5080	5180	4840	7550	2240	2490	4300	792	3270		
13	4410	1620	2300	2320	9890	6890	7630	802	2180	2390	3460	3430		
14	1890	2930	1910	789	9960	6880	2470	1930	2000	964	4010	3270		
15	570	3110	1860	2850	7870	6370	886	3390	2000	875	4030	1200		
16	3290	3850	1130	4600	3030	2290	3250	3350	1190	2820	4000	807		
17	4450	3150	973	4610	4260	8370	4510	3380	748	1840	3950	752		
18	4460	2150	2180	4660	4310	3020	4530	3370	2410	1180	2120	1110		
19	4470	815	3010	4640	5390	2900	4490	2220	2940	3040	779	2110		
20	4580	1270	3380	2450	7180	5160	4500	745	3820	3340	2380	2650		
21	1880	3150	3010	2030	6360	9660	2100	2480	4110	1430	2840	2800		
22	708	3430	3000	3110	3740	9700	841	3000	3920	879	2980	1620		
23	2850	3940	3250	4010	7590	9660	1650	3000	1460	1270	3560	793		
24	4420	3390	2540	3890	8120	7620	2640	3000	733	1210	2920	2700		
25	4470	2180	1420	3800	9870	9650	3230	2990	2180	1180	1440	3290		
26	4430	826	3410	2280	9900	9660	2960	1300	3480	1170	850	3270		
27	4470	909	4560	1610	9930	8020	2670	732	3480	1180	3330	3500		
28	2220	1770	4610	789	9920	7610	1800	1650	3510	909	4200	3630		
29	743	1770	4580	4580	---	7600	853	2640	3490	801	3610	1480		
30	2250	1750	2640	8170	---	5490	1790	2600	3250	2590	3640	753		
31	3670	---	893	7760	---	2880	---	2590	---	2380	2700	---		
TOTAL	92043	80579	72856	116188	187840	187637	126165	74289	66535	75005	90661	70349		
MEAN	2969	2686	2350	3748	6709	6053	4206	2396	2218	2420	2925	2345		
MAX	5200	4830	4610	8170	9960	9700	7630	3510	4110	4670	4200	4380		
MIN	570	744	893	789	2580	827	841	732	673	777	779	752		
CAL YR 1989	TOTAL	639913	MEAN	1753	MAX	5200	MIN	483	MEAN†	2441	CFSTM†	2.09	IN†	28.32
WTR YR 1990	TOTAL	1240147	MEAN	3398	MAX	9960	MIN	570	MEAN†	3067	CFSTM†	2.62	IN†	35.58

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

APALACHICOLA RIVER BASIN

02335450 CHATTAHOOCHEE RIVER ABOVE ROSWELL, GA.

LOCATION.--Lat 33°59'09", long 84°18'58", Fulton County, Hydrologic Unit 03130001, on right bank at Eves Road, 3.3 mi upstream from Big Creek, and 2.2 mi upstream from State Highway 400, 3.6 mi southeast of Roswell, and at mile 320.6.

DRAINAGE AREA.--1,220 mi², approximately.

PERIOD OF RECORD.--October 1941 to May 1960 (published as 02335500, Chattahoochee River "near Roswell"), July 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 858.01 ft above National Geodetic Vertical Datum of 1929. Prior to July 7, 1976, at site 1.8 mi downstream at datum 8.51 ft lower.

REMARKS.--Estimated daily discharges: Jan. 3-15 and Feb. 10-22. Records good, except those for the period of estimated daily discharges, which are fair. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett and DeKalb Counties; return flows above station by Gwinnett County.

AVERAGE DISCHARGE.--32 years (water years 1942-59, 1977-90), 2,070 ft³/s, 23.04 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,000 ft³/s, Jan. 8, 1946, from rating curve extended above 30,000 ft³/s basis of computation of peak flow over Morgan Falls Dam 6 miles downstream, gage height, 23.4 ft from floodmark (site and datum then in use); minimum daily discharge, 315 ft³/s, Aug. 11, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,500 ft³/s, Mar. 17, gage height, 9.89 ft; minimum daily discharge, 455 ft³/s, Oct. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	6210	3570	1640	2120	7610	7660	3990	2170	2470	2300	2740	1240		
2	4620	4030	1620	4010	7630	5750	7320	2140	2280	2810	3000	601		
3	1590	3600	1010	4280	5240	3130	7360	2130	729	4380	2970	2210		
4	1400	2630	1990	3960	2710	884	7350	2130	1030	4370	2050	3080		
5	1250	687	1920	4110	4960	3650	7340	1700	1620	4400	1210	3100		
6	1220	1510	1670	4700	7670	7330	7360	686	1830	4380	2050	3260		
7	1290	4400	1660	1310	7710	7450	4260	976	1630	3120	3760	4530		
8	684	4800	2350	1040	7620	6600	834	3170	1710	559	3870	1900		
9	746	4570	2640	4890	7630	5590	3860	3450	1510	1970	3830	729		
10	2990	4420	1420	4900	3700	4790	7390	3420	625	4360	3920	2280		
11	4710	3620	1570	5060	2700	817	5790	3280	1090	3980	2830	3340		
12	4260	744	2340	4860	7000	3790	7370	2930	2370	4090	582	3110		
13	4280	772	2390	4920	10000	6650	7420	778	2150	3110	2580	3310		
14	2880	2800	1880	1070	10000	6610	3500	1020	1870	1170	3780	3910		
15	455	3070	1780	2100	7000	6440	864	3210	1860	790	3830	1670		
16	2050	4150	1280	4380	3300	3600	2470	3200	1640	1960	3770	690		
17	4310	3140	911	4420	4400	10900	4300	3210	624	2500	3530	795		
18	4340	2820	1780	4470	4700	3470	4300	3210	1590	832	3040	786		
19	4360	780	2920	4450	5900	2730	4270	2930	2670	2570	546	1740		
20	4560	736	3170	3020	7500	4410	4270	670	3510	3200	1630	2410		
21	2690	2590	2960	2440	6500	9550	2600	1710	3950	2110	2660	2660		
22	628	3420	2820	2730	3900	9640	817	2860	3710	687	2830	2240		
23	1640	4050	2930	3870	6930	9630	1500	2830	2160	1090	4120	710		
24	4280	3440	2900	4120	7980	7410	2550	2840	591	1160	2780	1890		
25	4360	2890	1220	5080	9830	9530	2440	2830	1210	1110	2080	3180		
26	4320	794	2700	2560	9880	9620	3040	1860	3260	1100	602	3150		
27	4340	750	4320	1800	9940	7900	2500	674	3250	1100	2350	3170		
28	3220	1650	4360	754	9940	7400	2370	1030	3310	1140	4200	3560		
29	667	1680	4370	3330	---	7410	830	2500	3270	568	3510	2170		
30	1140	1650	3280	8060	---	5920	1120	2490	3320	1840	3580	574		
31	3520	---	933	7630	---	3270	---	2500	---	2340	2950	---		
TOTAL	89010	79763	70734	116444	189880	189531	121385	70534	62839	71096	87180	67995		
MEAN	2871	2659	2282	3756	6781	6114	4046	2275	2095	2293	2812	2267		
MAX	6210	4800	4370	8060	10000	10900	7420	3450	3950	4400	4200	4530		
MIN	455	687	911	754	2700	817	817	670	591	559	546	574		
CAL YR 1989	TOTAL	599290	MEAN	1642	MAX	6210	MIN	323	MEAN†	2330	CFSM†	1.91	IN†	25.94
WTR YR 1990	TOTAL	1216391	MEAN	3333	MAX	10900	MIN	455	MEAN†	3002	CFSM†	2.46	IN†	33.41

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

APALACHICOLA RIVER BASIN

02335700 BIG CREEK NEAR ALPHARETTA, GA.

LOCATION.--Lat 34°03'02", long 84°16'10", Fulton County, Hydrologic Unit 03130001, on left bank at downstream side of bridge on Kimball Bridge Road, 2.6 mi southeast of Alpharetta, and 9.4 mi upstream from mouth.

DRAINAGE AREA.--72 mi², approximately.

PERIOD OF RECORD.--May 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 960.80 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Soil Conservation Service).

REMARKS.--No estimated daily discharges. Records good, except those less than 50 ft³/s, which are fair.

AVERAGE DISCHARGE.--30 years, 112 ft³/s, 21.12 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,100 ft³/s, Feb. 3, 1982, gage height, 13.05 ft; minimum daily, 1.7 ft³/s, July 22, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	1200	2,850	10.84	Feb. 17	1400	1,830	9.78
Jan. 26	0900	1,590	9.47	Mar. 17	2200	*5,820	*12.81

Minimum daily discharge, 20 ft³/s, Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1320	49	73	242	136	139	143	96	65	27	31	27
2	2640	49	71	140	131	249	140	90	72	30	33	26
3	1220	52	70	115	133	579	130	84	76	28	33	25
4	217	49	68	116	306	406	126	82	69	26	31	24
5	129	48	72	141	303	199	122	92	62	25	28	22
6	105	58	72	349	169	170	125	84	58	25	28	21
7	93	116	70	247	158	154	143	78	56	23	27	21
8	86	248	248	211	140	241	121	74	54	22	25	20
9	77	131	221	158	205	436	115	123	51	25	26	23
10	72	82	170	130	592	422	124	209	52	28	166	36
11	69	70	121	115	554	227	185	105	48	25	66	69
12	65	66	249	107	214	181	129	88	44	27	41	34
13	63	61	344	97	164	163	117	92	42	59	34	369
14	63	62	193	94	146	153	113	86	41	74	32	468
15	61	119	116	92	145	146	131	80	42	53	29	187
16	60	297	101	90	668	503	114	74	69	36	27	80
17	64	138	91	90	1580	3870	108	75	51	35	25	57
18	66	95	89	109	738	2960	103	73	45	40	24	47
19	61	82	97	104	670	665	99	69	41	67	26	48
20	58	77	94	150	610	262	99	71	37	84	24	41
21	55	73	88	645	246	212	106	139	35	70	24	39
22	54	91	80	565	239	194	112	90	36	79	39	238
23	53	353	78	187	251	179	105	75	38	51	206	100
24	52	183	78	201	187	169	97	71	34	43	60	58
25	51	112	78	866	160	161	93	70	32	37	40	47
26	51	98	77	1400	150	159	90	71	31	34	35	43
27	50	90	75	493	146	164	86	84	30	31	32	40
28	49	87	76	198	143	148	145	147	30	29	28	37
29	49	81	76	185	---	158	169	95	29	29	27	37
30	48	74	119	195	---	163	105	72	29	27	34	36
31	50	---	169	151	---	153	---	66	---	26	28	---
TOTAL	7151	3191	3624	7983	9284	13985	3595	2805	1399	1215	1309	2320
MEAN	231	106	117	258	332	451	120	90.5	46.6	39.2	42.2	77.3
MAX	2640	353	344	1400	1580	3870	185	209	76	84	206	468
MIN	48	48	68	90	131	139	86	66	29	22	24	20
CFSM	3.21	1.47	1.63	3.58	4.61	6.26	1.67	1.26	.65	.54	.59	1.07
IN.	3.69	1.65	1.87	4.12	4.80	7.23	1.86	1.45	.72	.63	.68	1.20
CAL YR 1989	TOTAL	39436	MEAN	108	MAX	2640	MIN	22	CFSM	1.50	IN	20.37
WTR YR 1990	TOTAL	57861	MEAN	159	MAX	3870	MIN	20	CFSM	2.21	IN	29.89

APALACHICOLA RIVER BASIN

02335810 CHATTAHOOCHEE RIVER AT MORGAN FALLS DAM AT SANDY SPRINGS, GA.

LOCATION.--Lat 33°58'06", long 84°22'58", Fulton County, Hydrologic Unit 03130001, on upstream side of Morgan Falls Dam 3.9 mi upstream from mouth of Sope Creek at river mile 312.6.

DRAINAGE AREA.--1,370 mi², approximately.

PERIOD OF RECORD.--June 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is 843.48 ft (revised) above National Geodetic Vertical Datum of 1929 (leveling by Global Positioning System from city of Atlanta benchmark); gage readings have been reduced to elevations about National Geodetic Vertical Datum of 1929.

REMARKS.--Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs In Apalachicola Basin", station 02334400).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 853.83 ft, Sept. 30, 1989; minimum elevation, 846.53 ft, Sept. 11, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 853.69 ft, Mar. 17; minimum elevation, 845.08 ft, Nov. 9.

REVISIONS.--Revised figures for elevation for the period June to September 1988 and water year 1989, superseding those published in the 1989 annual report are given below:

EXTREMES FOR REVISED PERIOD.--June to September 1988: Maximum elevation, 853.59 ft, Sept. 14; minimum elevation, 846.70 ft, Sept. 28.

Water year 1989: Maximum elevation, 853.83 ft, Sept. 30; minimum elevation, 846.53 ft, Sept. 11.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									--	852.67	852.77	852.59
2									--	852.87	852.73	852.64
3									--	852.80	852.73	852.87
4									--	852.61	852.75	853.24
5									--	852.81	852.70	853.12
6									--	852.73	852.81	851.55
7									--	852.68	853.16	852.29
8									--	852.80	852.49	852.93
9									--	852.99	852.65	852.95
10									--	852.94	852.62	853.14
11									--	852.42	852.64	852.30
12									--	852.78	852.71	851.93
13									--	852.58	853.05	852.66
14									--	852.67	852.91	853.12
15									--	852.73	852.34	852.76
16									--	852.96	852.87	852.83
17									--	853.03	852.89	853.22
18									--	852.43	852.78	853.17
19									--	852.80	852.69	852.76
20									--	852.82	853.20	852.92
21									--	852.80	853.25	852.95
22									852.73	853.02	851.72	852.97
23									852.66	853.37	852.30	852.91
24									852.72	853.31	852.80	853.03
25									853.07	851.72	852.68	851.50
26									853.21	851.88	852.87	848.80
27									852.63	852.63	853.11	849.05
28									852.78	852.65	852.20	848.96
29									852.70	852.61	850.49	851.29
30									852.76	853.01	851.13	852.24
31									--	853.03	852.06	--
MEAN									--	852.75	852.58	852.29
MAX									--	853.37	853.25	853.24
MIN									--	851.72	850.49	848.80

APALACHICOLA RIVER BASIN

02335810 CHATTAHOOCHEE RIVER AT MORGAN FALLS DAM AT SANDY SPRINGS, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	852.95	853.29	853.23	853.44	851.60	853.43	853.21	851.89	852.82	853.11	851.42	852.10
2	853.32	853.21	853.23	853.41	852.00	853.33	852.61	853.37	853.18	852.77	851.88	853.14
3	853.18	853.32	853.26	853.22	851.71	853.46	851.40	852.81	853.04	851.91	851.46	852.82
4	852.66	853.26	852.70	853.11	852.33	853.38	851.54	851.08	852.21	852.75	851.35	850.81
5	852.18	853.38	851.89	853.12	851.83	853.12	853.32	851.05	851.47	852.86	853.02	851.66
6	852.97	853.25	851.96	853.17	850.67	853.35	853.48	853.05	852.94	852.45	852.72	851.93
7	852.86	852.92	852.37	853.33	852.58	853.43	853.42	852.84	852.74	852.46	850.45	852.02
8	853.13	853.19	852.65	852.60	853.41	853.09	853.30	852.15	851.56	853.31	852.40	851.89
9	852.90	853.02	852.97	851.18	853.30	853.16	853.40	852.87	850.75	853.08	853.09	853.12
10	852.54	853.18	853.19	851.95	853.17	853.38	853.31	853.05	851.93	852.32	851.16	851.88
11	852.78	853.41	852.77	853.15	852.92	853.38	853.38	853.27	851.66	851.90	851.73	848.43
12	852.70	853.44	852.12	853.23	851.52	852.56	853.26	852.34	850.10	852.27	852.99	851.68
13	852.66	853.27	852.07	853.43	849.80	851.29	853.28	852.86	850.48	852.61	852.48	851.91
14	852.41	852.83	852.39	853.33	850.48	852.11	852.58	852.29	851.87	852.84	850.28	851.68
15	852.67	853.05	852.70	852.81	850.16	853.23	853.25	852.68	852.87	853.20	852.51	851.77
16	852.68	853.27	853.00	852.02	850.59	853.36	853.00	853.23	853.13	852.95	851.47	853.13
17	851.92	853.21	853.23	852.52	851.84	853.17	851.82	853.14	853.29	852.39	851.87	852.51
18	852.26	853.30	852.73	853.30	853.36	853.34	851.52	852.16	853.30	852.26	852.25	850.74
19	852.79	853.36	852.05	853.13	853.02	852.57	852.45	852.82	852.39	852.61	853.01	851.93
20	852.62	852.98	852.18	853.33	852.45	851.06	852.97	853.34	852.12	852.44	852.19	851.92
21	852.90	852.46	852.48	853.04	853.21	852.23	853.02	852.51	852.73	852.39	850.31	852.06
22	853.22	852.67	852.85	851.53	852.86	853.30	853.13	850.89	853.16	853.31	851.58	852.10
23	853.05	853.02	853.21	850.00	852.92	853.22	852.45	851.36	853.43	853.34	851.47	853.25
24	852.54	853.22	853.42	852.06	853.14	853.48	850.64	852.33	853.37	852.08	851.69	853.03
25	853.01	853.22	852.96	853.03	853.27	853.42	851.19	852.78	853.30	851.96	851.52	851.79
26	853.30	853.34	852.33	853.05	852.42	853.10	852.21	853.20	852.80	851.95	853.29	853.00
27	853.38	853.42	852.23	852.96	851.54	852.39	852.89	853.29	853.19	851.79	853.40	852.10
28	853.37	853.37	852.65	852.85	853.36	852.54	852.42	852.12	853.24	851.78	852.14	852.25
29	853.41	853.27	853.17	851.36	---	853.04	852.78	849.38	852.75	852.85	851.97	852.35
30	853.17	853.04	853.37	849.49	---	853.05	852.12	851.56	852.35	852.54	852.07	853.21
31	852.90	---	853.42	851.28	---	853.00	---	852.30	---	850.84	851.98	---
MEAN	852.85	853.17	852.73	852.56	852.20	852.97	852.65	852.39	852.47	852.49	851.97	852.07
MAX	853.41	853.44	853.42	853.44	853.41	853.48	853.48	853.37	853.43	853.34	853.40	853.25
MIN	851.92	852.46	851.89	849.49	849.80	851.06	850.64	849.38	850.10	850.84	850.28	848.43
WTR YR 1989	MEAN	852.55	MAX	853.48	MIN	848.43						

APALACHICOLA RIVER BASIN

02335810 CHATTAHOOCHEE RIVER AT MORGAN FALLS DAM AT SANDY SPRINGS, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	852.97	852.24	851.96	851.76	852.24	851.26	851.76	852.33	851.40	852.27	851.68	853.34
2	852.77	852.09	852.74	851.40	852.30	851.73	851.29	852.11	852.82	851.61	851.75	852.53
3	852.39	852.10	853.21	851.53	852.41	852.71	851.18	852.09	---	851.58	851.71	851.35
4	852.42	852.86	852.84	851.85	852.97	853.25	851.16	851.96	---	851.55	852.74	851.92
5	852.44	852.99	852.72	851.90	852.05	851.34	850.94	853.08	852.75	851.62	852.81	852.28
6	852.60	851.15	852.38	853.02	852.22	851.90	850.92	853.32	852.52	851.61	852.24	851.88
7	853.08	851.93	852.19	852.60	851.99	851.72	852.70	851.99	852.06	853.06	851.51	852.33
8	853.20	852.33	852.27	851.68	852.25	851.82	853.44	851.79	852.35	852.37	851.90	853.30
9	851.53	851.63	852.93	851.84	852.25	852.30	851.65	851.61	853.11	850.68	851.80	853.03
10	851.25	852.00	853.23	852.17	852.66	852.88	851.23	852.05	852.69	851.02	851.75	851.54
11	851.66	852.94	853.05	852.00	852.97	853.26	851.32	851.74	851.18	851.73	853.15	851.99
12	851.43	852.98	853.19	851.89	852.13	851.79	851.86	852.77	852.32	852.39	852.79	851.74
13	851.71	851.39	853.03	852.87	853.13	851.93	851.70	853.39	852.01	853.13	851.43	852.10
14	853.08	851.88	852.77	852.63	853.44	851.71	852.99	851.85	851.58	853.46	852.01	852.85
15	852.54	852.06	853.06	851.23	853.38	851.74	853.26	851.46	852.19	853.23	851.58	853.34
16	850.86	852.21	853.31	851.84	853.30	853.14	852.22	851.64	853.15	851.86	851.75	853.20
17	851.78	851.73	853.36	852.05	852.55	853.27	852.46	851.66	852.70	852.89	851.40	852.96
18	851.80	852.65	852.94	852.14	851.94	852.90	852.07	851.63	851.13	852.65	853.23	852.14
19	851.59	853.21	852.98	851.96	852.06	852.52	852.06	852.87	851.69	852.01	852.63	851.91
20	851.91	852.03	852.80	853.04	851.86	852.10	851.95	853.01	851.67	851.98	851.10	851.86
21	853.00	851.75	852.55	853.30	851.97	853.11	853.06	851.58	851.71	853.17	851.67	851.69
22	852.84	852.01	852.51	853.24	852.52	853.34	853.22	852.05	851.41	853.10	851.87	853.27
23	851.09	851.96	852.57	852.11	851.73	853.31	853.20	851.68	853.28	853.09	852.00	853.33
24	851.38	851.67	853.00	852.55	851.53	852.71	852.86	852.10	852.62	852.90	851.58	851.96
25	851.60	852.47	853.07	853.07	852.11	853.01	852.12	852.17	851.13	852.47	853.16	851.97
26	851.70	853.40	851.72	853.05	852.26	853.30	851.41	853.29	851.59	852.30	852.81	851.84
27	851.97	852.67	851.98	853.26	852.32	851.97	851.73	852.96	851.22	852.78	851.95	851.72
28	853.11	852.29	851.75	853.45	852.14	851.63	852.85	851.77	851.55	853.28	852.27	851.81
29	853.12	852.34	851.39	851.71	---	851.42	853.43	851.94	851.67	852.43	852.07	853.23
30	851.62	852.29	852.80	852.59	---	852.14	852.17	851.78	851.97	851.15	851.66	852.73
31	851.95	---	853.38	852.38	---	853.02	---	851.50	---	852.21	852.34	---
MEAN	852.14	852.24	852.70	852.33	852.38	852.39	852.14	852.17	---	852.31	852.08	852.37
MAX	853.20	853.40	853.38	853.45	853.44	853.34	853.44	853.39	---	853.46	853.23	853.34
MIN	850.86	851.15	851.39	851.23	851.53	851.26	850.92	851.46	---	850.68	851.10	851.35
CAL YR 1989	MEAN	852.41	MAX	853.48	MIN	848.43						

APALACHICOLA RIVER BASIN

02335870 SOPE CREEK NEAR MARIETTA, GA.

LOCATION.--Lat 33°57'14", long 84°26'36", Cobb County, Hydrologic Unit 03130001, on downstream side of bridge on Lower Roswell Road (South Roswell Road), 0.3 mi downstream from Bishop Creek, 6.1 mi east of Marietta, and 2.6 mi upstream from mouth.

DRAINAGE AREA.--29.2 mi², approximately.

PERIOD OF RECORD.--October 1984 to current year. Occasional low-flow measurements, water years 1944, 1951, 1953-55, 1957, 1961.

REVISED RECORDS.--WDR GA-89-1: 1985(P), 1986(M), 1987 (P, daily discharge, and monthly runoff), 1988(P).

GAGE.--Water-stage recorder. Datum of gage is 881.37 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Estimated daily discharges: Oct. 2-5, Dec. 23-26, Feb. 18, Feb. 20-21, Mar. 18-19, Mar. 23-Apr. 2, and Aug. 10-14. Records good, except those for periods of estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--6 years, 45.1 ft³/s, 20.97 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,630 ft³/s, Sept. 30, 1989, gage height, 16.22 ft; minimum daily discharge, 0.79 ft³/s, July 20, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 30, 1977 reached a stage of 21.1 ft, from floodmark, present site and datum, discharge unknown. Flood of Feb. 4, 1982 reached a stage of 20.0 ft, present site and datum, discharge unknown.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,160 ft³/s, Oct. 1, stage falling, peak occurred Sept. 30, 1989; peak discharges greater than a base discharge of 900 ft³/s:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 20	2245	990	8.12	Mar. 16	2345	*5,730	*15.27
Jan. 25	1200	1,130	8.55	Aug. 8	1700	934	7.92
Feb. 9	2145	1,230	8.75	Sept. 14	0700	1,090	8.46
Feb. 16	1415	4,340	13.31				

Minimum daily discharge, 7.1 ft³/s, Sept. 8.

APALACHICOLA RIVER BASIN

02335870 SOPE CREEK NEAR MARIETTA, GA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2130	20	26	66	43	45	51	38	24	10	19	29
2	180	21	26	40	41	243	48	35	25	10	61	12
3	110	22	25	36	40	127	45	32	42	10	21	9.7
4	75	20	25	50	224	64	44	32	26	10	14	8.7
5	47	21	25	186	58	55	45	41	23	9.8	18	8.4
6	39	71	24	287	46	51	54	31	22	9.8	16	8.2
7	36	42	31	86	51	48	53	29	24	9.8	14	7.8
8	33	110	224	84	42	219	43	28	22	10	212	7.1
9	30	40	75	54	304	113	42	197	20	9.7	46	10
10	29	28	48	46	332	69	115	71	19	9.8	110	11
11	28	25	39	42	85	59	71	39	18	10	24	8.8
12	27	24	219	39	60	54	45	35	18	17	19	13
13	26	24	70	37	53	51	42	43	17	50	16	76
14	26	27	47	36	50	50	41	33	17	79	14	403
15	25	151	41	36	50	49	61	31	17	18	12	36
16	25	183	37	34	1550	1600	41	30	18	15	14	20
17	25	40	35	34	154	2330	38	30	17	31	11	16
18	24	32	34	58	200	180	36	27	17	17	10	14
19	23	29	55	38	334	96	35	26	16	16	10	13
20	22	28	38	161	100	77	36	28	15	19	9.7	13
21	22	27	34	290	69	66	54	33	15	15	9.6	13
22	21	106	32	68	148	64	46	27	23	31	13	21
23	21	124	30	52	76	62	48	26	16	37	53	13
24	21	40	28	225	60	61	36	26	13	24	11	12
25	20	35	26	768	52	60	34	26	13	16	9.4	12
26	20	32	24	125	50	60	32	24	12	15	8.9	11
27	20	30	27	68	49	57	31	25	11	14	8.6	11
28	20	33	30	54	47	56	212	40	11	14	7.9	11
29	20	28	30	87	---	70	60	28	12	14	69	11
30	20	26	43	56	---	54	41	24	10	13	75	11
31	21	---	104	46	---	53	---	23	---	13	13	---
TOTAL	3186	1439	1552	3289	4368	6243	1580	1158	553	576.9	949.1	850.7
MEAN	103	48.0	50.1	106	156	201	52.7	37.4	18.4	18.6	30.6	28.4
MAX	2130	183	224	768	1550	2330	212	197	42	79	212	403
MIN	20	20	24	34	40	45	31	23	10	9.7	7.9	7.1
CFSM	3.53	1.64	1.72	3.63	5.34	6.88	1.81	1.28	.63	.64	1.05	.97
IN.	4.06	1.83	1.98	4.19	5.56	7.95	2.01	1.48	.70	.73	1.21	1.08
CAL YR 1989	TOTAL	25192.0	MEAN	69.0	MAX	2130	MIN	11	CFSM	2.36	IN	32.09
WTR YR 1990	TOTAL	25744.7	MEAN	70.5	MAX	2330	MIN	7.1	CFSM	2.41	IN	32.80

APALACHICOLA RIVER BASIN

02336000 CHATTAHOOCHEE RIVER AT ATLANTA, GA.

LOCATION.--Lat 33°51'33", long 84°27'16", Fulton-Cobb County line, Hydrologic Unit 03130001, on left bank 20 ft upstream from Paces Ferry Bridge, at Atlanta, 1 mi downstream from Rottenwood Creek, 2.5 mi upstream from Peachtree Creek, and at mile 303.0.

DRAINAGE AREA.--1,450 mi², approximately.

PERIOD OF RECORD.--August 1928 to December 1931, October 1936 to current year. Prior to October 1951, published as "near Vinings".

REVISED RECORDS.--WSP 972: 1932.

GAGE.--Water-stage recorder. Datum of gage is 750.10 ft above National Geodetic Vertical Datum of 1929. Aug. 3, 1928, to Dec. 31, 1931, water-stage recorder, and Nov. 15, 1936 to Mar. 8, 1937, nonrecording gage at same site and datum. Since June 1967, auxiliary water-stage recorder at bridge on U.S. Highway 41, 0.8 mi upstream.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett, DeKalb, and Cobb Counties; return flows above station by Gwinnett and Cobb Counties. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant 9.5 mi above station. Records of chemical analyses for the water years 1974-79 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--57 years (water years 1929-31, 1937-90), 2,547 ft³/s, 23.85 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,000 ft³/s, Jan. 9, 1946, gage height, 28.0 ft; minimum daily, 296 ft³/s, Sept. 2, 1957.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1896, 29.0 ft in December 1919, from floodmarks at site 2.6 mi downstream and stage relation between the two sites.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,100 ft³/s, Mar. 17, gage height, 23.03 ft; minimum daily discharge, 1,020 ft³/s, Sept. 17, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	13200	3660	1960	3070	7820	8400	3210	2360	2800	2250	2670	1620		
2	7870	4230	1350	4260	7750	8010	7900	2600	2020	2310	3640	1050		
3	5210	3720	1320	4270	6810	5060	7880	2430	1200	4210	3360	1540		
4	2560	2670	1800	4290	3680	2020	7840	2550	1410	4230	2780	3060		
5	1630	1090	2620	4860	4670	3000	7880	1880	1850	4230	1160	3040		
6	1730	1750	2000	5720	7950	7650	7900	1080	2200	4250	1850	3180		
7	1370	4220	1970	2150	7990	7870	5990	1630	1830	3490	4240	4390		
8	1180	5380	3610	2900	7820	8610	1270	3420	1840	1160	4520	2480		
9	1710	5140	2730	5130	8740	5880	3040	4580	1370	1390	4430	1080		
10	2580	4390	2130	5330	8520	7280	7880	4260	1130	3870	4700	1630		
11	4260	3950	1840	5370	3060	1650	6680	3850	1270	3820	3490	3680		
12	4750	1150	3340	5100	4090	2800	7870	3010	2310	3820	1090	3160		
13	4420	1460	3520	3840	9500	7040	7860	1250	2470	4250	1820	3670		
14	3540	2600	2580	1160	10100	7150	5290	1840	2010	1920	3970	6530		
15	1130	3540	2040	2010	9830	7100	1410	3540	1840	1260	4080	2780		
16	1340	5530	1800	4370	8960	9480	2570	3530	1560	1860	3960	1050		
17	4480	3810	1150	4610	7000	20500	4420	3590	1110	3020	3900	1020		
18	4560	2590	1910	4820	6770	9200	4970	3620	1410	1570	3610	1040		
19	4530	1160	3150	4950	8530	5040	4720	2860	2770	2090	1050	1620		
20	4840	1490	3430	3800	6880	4220	4700	1240	3020	3660	1490	2240		
21	3200	2340	3530	5170	8310	9370	3460	1740	3680	2720	2740	2590		
22	1110	3670	2960	3340	5360	9940	1220	3200	3800	1200	2790	2380		
23	1380	5110	3130	4890	6460	9980	1860	3280	2800	1490	4750	1140		
24	4290	4230	3220	4860	8570	8350	3100	3060	1050	1620	3360	1640		
25	4380	2730	1530	9730	9690	9590	2830	3140	1190	1460	2100	3050		
26	4440	1160	2970	5150	10100	10100	3800	2330	3200	1270	1040	3160		
27	4340	1380	4300	3380	10100	8980	2800	1220	3220	1180	1590	3020		
28	3670	1780	4580	1470	10100	8000	3150	1970	3200	1180	4280	3420		
29	1030	1970	4750	2830	---	8100	1370	2820	3160	1080	3630	2430		
30	1410	1830	3550	8080	---	7450	1910	2800	3190	1510	4270	1020		
31	3270	---	1520	7990	---	4120	---	2830	---	2850	3340	---		
TOTAL	109410	89730	82290	138900	215160	231940	136780	83510	65910	76220	95700	73710		
MEAN	3529	2991	2655	4481	7684	7482	4559	2694	2197	2459	3087	2457		
MAX	13200	5530	4750	9730	10100	20500	7900	4580	3800	4250	4750	6530		
MIN	1030	1090	1150	1160	3060	1650	1220	1080	1050	1080	1040	1020		
CAL YR 1989	TOTAL	741134	MEAN	2031	MAX	13200	MIN	857	MEAN†	2719	CFSM†	1.88	IN†	25.45
WTR YR 1990	TOTAL	1399260	MEAN	3834	MAX	20500	MIN	1020	MEAN†	3503	CFSM†	2.42	IN†	32.79

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

APALACHICOLA RIVER BASIN

02336300 PEACHTREE CREEK AT ATLANTA, GA.

LOCATION.--Lat 33°49'10", long 84°24'28", Fulton County, Hydrologic Unit 03130001, on downstream side of center pier of bridge on Northside

Drive at Atlanta, 0.4 mi downstream from Tanyard Branch, and 4 mi upstream from mouth.

DRAINAGE AREA.--86.8 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 763.96 ft above National Geodetic Vertical Datum of 1929 (City of Atlanta benchmark.) Prior to May 27, 1963, water-stage recorder at site 1,000 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records fair.

AVERAGE DISCHARGE.--32 years, 135 ft³/s, 21.12 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,650 ft³/s, Mar. 17, 1990, gage height, 21.06 ft; minimum daily discharge, 6.0 ft³/s, Oct. 3, 4, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1115	5,190	15.28	Feb. 19	0100	2,870	11.38
Nov. 15	2300	3,820	13.10	Mar. 17	0800	*9,650	*21.06
Jan. 20	2315	3,700	12.89	May 28	1530	4,660	14.47
Jan. 25	0400	4,730	14.58	Aug. 9	0130	2,820	11.28
Feb. 9	2045	6,500	17.14	Sept. 14	1000	2,570	10.77
Feb. 16	1330	7,210	18.09				

Minimum daily discharge, 16 ft³/s, July 7.

APALACHICOLA RIVER BASIN

02336300 PEACHTREE CREEK AT ATLANTA, GA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4150	28	31	130	71	79	95	66	65	21	124	353
2	408	29	30	41	67	359	89	63	76	20	376	75
3	140	29	27	34	63	457	83	60	116	20	124	36
4	98	28	26	91	610	114	80	60	81	20	40	27
5	87	28	28	222	122	92	79	362	54	18	30	23
6	73	149	27	724	78	83	97	86	51	17	74	21
7	61	100	102	145	104	77	110	66	47	16	29	19
8	53	177	993	258	68	449	78	62	44	120	636	18
9	46	56	254	82	1340	352	76	382	44	68	674	112
10	45	32	119	60	2190	132	313	169	41	21	331	193
11	44	28	59	50	250	95	260	72	38	19	63	550
12	45	27	742	44	150	85	75	61	37	159	40	47
13	42	23	192	39	118	79	64	151	35	374	34	33
14	61	23	82	37	106	74	65	69	35	607	31	1300
15	49	856	61	35	101	71	150	59	50	84	30	167
16	42	1180	51	35	3470	2530	65	55	37	40	27	63
17	42	103	44	34	471	6060	61	55	34	32	24	43
18	42	59	48	161	560	516	58	51	34	28	23	36
19	38	47	151	58	1330	318	56	50	33	173	23	33
20	35	40	69	560	220	251	57	85	32	105	23	30
21	34	40	46	1360	144	219	73	175	31	46	21	28
22	34	256	38	143	306	203	75	61	53	53	170	41
23	33	430	36	91	155	192	143	50	49	137	730	27
24	32	60	37	753	110	184	63	47	29	113	71	24
25	31	44	42	2680	95	176	58	45	25	36	37	24
26	30	39	34	314	87	178	58	44	24	29	32	23
27	30	42	33	153	83	181	57	280	24	27	28	22
28	28	98	32	115	82	162	460	1300	24	24	24	21
29	28	45	30	220	—	289	107	239	23	23	56	22
30	29	33	70	131	—	142	73	92	22	23	517	22
31	29	—	184	82	—	107	—	70	—	21	436	—
TOTAL	5939	4129	3718	8882	12551	14306	3178	4487	1288	2494	4878	3433
MEAN	192	138	120	287	448	461	106	145	42.9	80.5	157	114
MAX	4150	1180	993	2680	3470	6060	460	1300	116	607	730	1300
MIN	28	23	26	34	63	71	56	44	22	16	21	18
CFSM	2.21	1.59	1.38	3.31	5.16	5.31	1.22	1.67	.49	.93	1.81	1.31
IN.	2.55	1.77	1.59	3.81	5.38	6.13	1.36	1.92	.55	1.07	2.09	1.47
CAL YR 1989	TOTAL	60708	MEAN	166	MAX	4150	MIN	19	CFSM	1.91	IN	26.02
WTR YR 1990	TOTAL	69283	MEAN	190	MAX	6060	MIN	16	CFSM	2.19	IN	29.69

APALACHICOLA RIVER BASIN

02336300 PEACHTREE CREEK AT ATLANTA, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.30	3.33	3.36	4.05	3.74	3.80	3.98	3.61	3.49	3.04	3.78	4.85
2	5.21	3.34	3.34	3.48	3.71	4.94	3.94	3.57	3.58	3.03	4.72	3.65
3	4.16	3.34	3.31	3.40	3.68	5.31	3.91	3.54	3.80	3.03	3.85	3.32
4	3.93	3.32	3.29	3.79	5.77	4.02	3.89	3.54	3.60	3.02	3.30	3.22
5	3.86	3.32	3.33	4.30	4.06	3.89	3.87	4.85	3.41	3.00	3.19	3.17
6	3.76	4.05	3.30	6.14	3.79	3.83	3.99	3.71	3.38	2.99	3.58	3.13
7	3.66	3.84	3.65	4.17	3.96	3.79	4.05	3.56	3.34	2.98	3.18	3.10
8	3.59	4.32	6.94	4.68	3.72	5.09	3.84	3.52	3.32	3.50	5.16	3.10
9	3.53	3.60	4.69	3.82	6.70	5.05	3.83	4.81	3.32	3.48	5.67	3.80
10	3.52	3.38	4.03	3.66	9.49	4.11	4.65	4.12	3.29	3.06	4.77	4.19
11	3.51	3.33	3.65	3.57	4.66	3.91	4.62	3.58	3.26	3.02	3.53	5.39
12	3.52	3.31	6.03	3.51	4.21	3.84	3.80	3.48	3.24	3.87	3.32	3.46
13	3.49	3.26	4.38	3.46	4.05	3.80	3.71	4.02	3.22	4.90	3.25	3.31
14	3.65	3.25	3.82	3.43	3.97	3.76	3.71	3.54	3.22	5.73	3.21	7.65
15	3.55	6.17	3.67	3.42	3.95	3.74	4.19	3.45	3.35	3.64	3.20	4.20
16	3.48	7.10	3.58	3.40	11.31	9.79	3.70	3.41	3.25	3.30	3.16	3.62
17	3.48	3.95	3.51	3.40	5.44	15.73	3.66	3.40	3.21	3.20	3.12	3.44
18	3.49	3.65	3.54	4.17	5.53	5.62	3.62	3.36	3.21	3.16	3.12	3.36
19	3.44	3.54	4.21	3.63	7.73	4.95	3.60	3.36	3.19	3.95	3.11	3.32
20	3.42	3.47	3.72	4.98	4.54	4.69	3.60	3.58	3.18	3.76	3.12	3.28
21	3.40	3.46	3.53	7.58	4.18	4.55	3.71	4.09	3.18	3.36	3.09	3.25
22	3.40	4.33	3.44	4.17	4.81	4.49	3.73	3.45	3.38	3.40	4.04	3.38
23	3.39	5.13	3.42	3.88	4.23	4.44	4.09	3.35	3.37	3.84	5.95	3.23
24	3.37	3.66	3.43	5.64	4.00	4.41	3.63	3.33	3.15	3.79	3.60	3.18
25	3.36	3.50	3.49	10.70	3.91	4.38	3.58	3.32	3.09	3.26	3.31	3.19
26	3.35	3.46	3.40	4.90	3.86	4.39	3.57	3.31	3.09	3.18	3.25	3.17
27	3.35	3.49	3.38	4.22	3.83	4.40	3.55	4.34	3.08	3.14	3.20	3.15
28	3.32	3.87	3.37	4.03	3.82	4.31	5.20	7.34	3.09	3.11	3.15	3.14
29	3.32	3.52	3.35	4.47	---	4.84	3.88	4.40	3.07	3.10	3.29	3.14
30	3.34	3.39	3.71	4.10	---	4.22	3.66	3.69	3.06	3.09	5.36	3.14
31	3.34	---	4.33	3.82	---	4.04	---	3.53	---	3.07	5.09	---
MEAN	3.89	3.82	3.81	4.39	4.88	4.91	3.89	3.81	3.28	3.42	3.76	3.62
MAX	13.30	7.10	6.94	10.70	11.31	15.73	5.20	7.34	3.80	5.73	5.95	7.65
MIN	3.32	3.25	3.29	3.40	3.68	3.74	3.55	3.31	3.06	2.98	3.09	3.10

CAL YR 1989	MEAN	3.76	MAX	13.30	MIN	2.91
WTR YR 1990	MEAN	3.95	MAX	15.73	MIN	2.98

APALACHICOLA RIVER BASIN

02336300 PEACHTREE CREEK AT ATLANTA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1969 to May 1972, July 1975 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
04...	0840	86	150	142	6.9	7.3	18.5	15.5	7.7	84
NOV										
07...	1000	58	125	127	6.8	7.0	14.5	17.0	7.6	77
DEC										
06...	0815	26	152	158	7.5	7.2	5.5	7.0	11.3	92
JAN										
03...	1000	34	142	151	7.2	7.1	6.5	12.5	10.8	89
FEB										
06...	0930	79	135	131	7.0	7.1	10.0	13.5	10.1	91
MAR										
05...	0940	92	139	146	6.9	7.0	10.5	10.5	10.1	92
APR										
04...	0900	80	158	164	6.8	7.2	10.5	9.5	10.8	100
MAY										
01...	0830	65	149	155	7.0	7.1	19.0	24.0	9.9	110
JUN										
06...	0845	51	160	162	7.2	7.2	21.0	21.0	7.3	84
JUL										
11...	0815	19	185	185	7.2	7.2	25.0	26.0	5.6	69
AUG										
08...	0615	24	150	145	7.1	7.2	23.0	21.0	6.2	74
SEP										
05...	0600	24	140	139	7.0	7.2	23.0	20.0	7.1	85

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT								
04...	18	1.4	11000	39	0.950	0.060	0.110	--
NOV								
07...	38	7.8	9000	30	0.650	0.060	0.100	7.6
DEC								
06...	10	1.4	5500	47	0.780	0.150	0.060	2.8
JAN								
03...	7.0	1.4	7900	39	0.770	0.170	0.150	2.7
FEB								
06...	23	1.4	4900	37	0.880	0.180	0.100	2.0
MAR								
05...	9.0	0.2	2200	38	0.920	0.250	0.200	2.1
APR								
04...	6.0	0.7	3300	47	0.810	0.100	0.080	2.6
MAY								
01...	9.0	1.3	63500	44	0.790	0.200	0.140	3.2
JUN								
06...	12	1.4	54000	42	0.750	0.250	0.120	3.3
JUL								
11...	9.0	1.2	24000	56	0.410	0.180	0.100	3.8
AUG								
08...	11	1.6	3300	44	0.410	0.110	0.040	3.8
SEP								
05...	9.0	0.5	1700	39	0.450	0.060	0.070	3.8

APALACHICOLA RIVER BASIN

02336490 CHATTAHOOCHEE RIVER AT STATE HIGHWAY 280, NEAR ATLANTA, GA.

LOCATION.—Lat 33°49'01", long 84°28'48", Fulton-Cobb County line, Hydrologic Unit 03130002, on downstream side of bridge on State Highway 280, 0.6 mi upstream from Southern Railway bridge, 1.7 mi downstream from Peachtree Creek, and at mile 298.8.

DRAINAGE AREA.—1,600 mi², approximately.

PERIOD OF RECORD.—March 1981 to current year.

GAGE.—Water-stage recorder. Datum of gage is 736.35 ft above National Geodetic Vertical Datum of 1929.

REMARKS.—No estimated daily discharges. Records good. Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions and return flows above station regulated by Gwinnett, DeKalb, and Cobb Counties, and by the city of Atlanta. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant.

AVERAGE DISCHARGE.—9 years, 2,493 ft³/s, 21.16 in/yr.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 33,300 ft³/s, Mar. 17, 1990, gage height, 31.51 ft; minimum daily discharge, 847 ft³/s, May 30, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD: Flood of April 13, 1979, reached a stage of 30.71 ft from floodmarks, discharge, 32,000 ft³/s.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 33,300 ft³/s, Mar. 17, gage height, 31.51 ft; minimum daily discharge, 1,070 ft³/s, Oct. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23500	3550	2050	3130	7950	8850	3270	2440	2840	2370	2650	2320
2	11700	3960	1560	4220	7870	8690	7950	2660	2170	2370	4040	1290
3	5960	3620	1400	4300	7280	6150	8020	2490	1330	4390	3520	1510
4	2780	2750	1690	4350	4720	2430	7960	2590	1400	4480	2820	3190
5	1770	1140	2730	4940	4630	3090	7990	2590	1880	4480	1240	3190
6	1770	1750	1990	7130	8030	7700	8010	1220	2220	4520	1750	3320
7	1480	4190	2040	2570	8180	8030	6320	1520	1870	3930	4080	4580
8	1260	5500	5360	3100	7950	9080	1500	3360	1870	1260	4770	2880
9	1550	5210	3280	5190	10300	6690	3040	4940	1440	1550	5410	1340
10	2490	4330	2460	5360	13200	7660	8140	4640	1090	3970	5020	1820
11	4080	4140	1920	5410	3730	2070	7360	3870	1140	4010	3750	4800
12	4710	1250	4640	5110	4250	2890	7960	3240	2290	4140	1220	3460
13	4200	1380	4060	4030	9350	7080	7990	1490	2520	4760	1610	3800
14	3690	2530	2830	1320	10300	7320	5580	1840	2020	2880	3860	8960
15	1190	4490	2200	1890	10200	7250	1860	3500	1910	1420	4040	3400
16	1250	7590	1990	4280	15000	13600	2620	3500	1670	1690	3890	1270
17	4200	3970	1340	4610	10300	29800	4550	3560	1110	3060	3940	1200
18	4470	2840	1770	5030	7550	16400	5080	3590	1330	1550	3750	1160
19	4410	1300	3360	4980	11700	6920	4770	2940	2860	1990	1140	1580
20	4610	1480	3460	4470	7560	4560	4800	1320	3100	3680	1400	2440
21	3400	2290	3580	7490	8740	9510	3900	1850	3840	2900	2690	2800
22	1160	3790	3050	3480	6110	10400	1470	3180	4010	1280	2940	2750
23	1310	6090	3180	5080	6700	10400	2050	3280	2970	1550	5510	1270
24	4070	4270	3390	5970	8770	8900	3190	3040	1090	1830	3580	1560
25	4200	3010	1520	15900	9610	9520	2950	3130	1140	1480	2350	3250
26	4300	1280	2800	6400	10300	10200	3880	2440	3260	1330	1170	3390
27	4210	1360	4200	3880	10300	9460	2880	1800	3400	1160	1470	3200
28	3780	1940	4570	1800	10400	8230	4040	3720	3360	1180	4350	3610
29	1070	2100	4700	2920	---	8460	1720	3180	3370	1100	3680	2800
30	1270	1890	3870	8000	---	7940	1850	2890	3340	1350	5240	1120
31	3170	---	1870	8100	---	4580	---	2910	---	2670	4020	---
TOTAL	123010	94990	88860	154440	240980	263860	142700	88720	67840	80330	100900	83260
MEAN	3968	3166	2866	4982	8606	8512	4757	2862	2261	2591	3255	2775
MAX	23500	7590	5360	15900	15000	29800	8140	4940	4010	4760	5510	8960
MIN	1070	1140	1340	1320	3730	2070	1470	1220	1090	1100	1140	1120

CAL YR 1989	TOTAL	854174	MEAN	2340	MAX	23500	MIN	935	MEAN†	3028	CFSM†	1.89	IN†	25.70
WTR YR 1990	TOTAL	1529890	MEAN	4191	MAX	29800	MIN	1070	MEAN†	3860	CFSM†	2.41	IN†	32.76

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

APALACHICOLA RIVER BASIN

02336502 CHATTAHOOCHEE RIVER AT I-285, AT ATLANTA, GA.

LOCATION.--Lat 33°48'32", long 84°29'43", Cobb-Fulton County line, Hydrologic Unit 03130002, at bridge on Interstate Highway 285, 0.3 mi upstream from Proctor Creek, 0.5 mi downstream from Southern Railway bridge, at Atlanta city limits, and at mile 297.7.

DRAINAGE AREA.--1,600 mi², approximately.

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

REMARKS.--Flow regulated by Lake Sidney Lanier since January 1956 (see "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett, DeKalb, and Cobb Counties; return flows above station by Gwinnett and Cobb Counties. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant. Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Discharge obtained from gaging station 02336490, Chattahoochee River at State Highway 280, near Atlanta, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
04...	0930	2490	85	80	7.0	6.8	19.5	16.0	8.5	95
NOV										
07...	1045	5990	58	57	6.9	6.8	13.0	17.5	9.5	93
DEC										
06...	0900	1330	98	95	7.2	6.9	13.5	7.0	10.1	100
JAN										
03...	1100	3890	65	66	7.1	6.9	12.0	12.5	10.2	96
FEB										
06...	1030	9220	49	48	7.1	7.1	13.0	13.5	10.3	99
MAR										
05...	1010	1720	94	91	7.0	6.9	14.5	13.0	10.0	100
APR										
04...	1000	9240	49	46	7.2	6.9	12.5	9.5	10.2	99
MAY										
01...	0900	1520	102	99	7.2	7.1	20.0	24.0	9.1	103
JUN										
06...	0820	1720	102	104	7.1	7.0	21.0	22.0	8.7	100
JUL										
11...	0900	4700	50	51	6.6	6.8	18.0	29.0	8.4	91
AUG										
08...	0645	4110	60	58	7.3	6.9	19.0	24.0	8.4	93
SEP										
05...	0630	3620	60	58	6.8	6.9	20.0	22.5	8.5	96

APALACHICOLA RIVER BASIN

02336502 CHATTAHOOCHEE RIVER AT I-285, AT ATLANTA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
04...	84	1.7	14000	18	76	0.640	0.630	0.560	--
NOV									
07...	76	2.2	1100	15	116	0.430	0.160	0.160	4.8
DEC									
06...	9.0	2.4	700	23	11	0.360	1.22	0.420	5.5
JAN									
03...	16	2.1	75	14	29	0.280	0.400	0.260	3.3
FEB									
06...	50	1.4	490	13	138	0.190	0.310	0.120	2.7
MAR									
05...	41	0.8	<20	21	20	0.620	0.830	0.300	3.1
APR									
04...	16	0.5	20	13	42	0.300	0.180	0.040	3.2
MAY									
01...	16	2.9	330	22	11	0.540	0.930	0.180	3.4
JUN									
06...	9.0	1.1	260	19	19	1.19	0.060	0.290	2.3
JUL									
11...	68	0.5	1100	12	122	0.650	<0.030	0.080	3.4
AUG									
08...	21	2.1	790	13	40	0.700	0.040	0.080	3.9
SEP									
05...	18	0.2	170	13	37	0.710	0.060	0.130	3.2

APALACHICOLA RIVER BASIN

02337000 SWEETWATER CREEK NEAR AUSTELL, GA.

LOCATION.--Lat 33°46'22", long 84°36'53", Douglas County, Hydrologic Unit 03130002, on right bank 100 ft upstream from bridge on Interstate Highway 20, 400 ft upstream from Blair Bridge, 3 mi southeast of Austell, and 5.5 mi upstream from mouth.
DRAINAGE AREA.--246 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1904 to December 1905, November to December 1913, March 1937 to current year. Monthly discharge only for November to December 1913, published in WSP 1304.

REVISED RECORDS.--WSP 1724: 1949(M). WDR GA-79-1: 1975(M).

GAGE.--Water-stage recorder. Datum of gage is 857.01 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). May 6, 1904, to Dec. 31, 1905, and Nov. 3 to Dec. 27, 1913, nonrecording gage at site 2.5 mi upstream at different datum. Mar. 24 to Nov. 29, 1937, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--54 years (water years 1905, 1938-90), 334 ft³/s, 18.44 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft³/s, Feb 4, 1982, gage height, 19.90 ft; minimum daily discharge, 2.1 ft³/s, Oct. 9, 1954; minimum discharge, 0.52 ft³/s, July 6, 1990, due to construction work upstream from gage.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 8, 1916 reached a stage of about 20.0 ft, from information by local resident; discharge, 12,600 ft³/s, from rating extended above 6,500 ft³/s on basis of contracted-opening measurement at gage height, 18.2 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 1,800 ft³/s and maximum(*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	1900	6,690	16.11	Feb. 18	0100	4,940	12.96
Jan. 26	1200	3,750	10.62	Mar. 3	1400	1,870	6.30
Feb. 10	2100	2,110	6.91	Mar. 18	unknown	*9,950	*19.30

Minimum discharge, .52 ft³/s, July 6, gage height, -0.31 ft, due to construction work upstream from the gage.

APALACHICOLA RIVER BASIN

02337000 SWEETWATER CREEK NEAR AUSTELL, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4310	141	239	507	519	492	509	320	163	64	74	70
2	6240	143	224	383	482	701	474	274	163	59	95	79
3	5860	151	218	325	457	1730	437	249	176	54	202	59
4	3730	148	203	316	827	1750	406	237	189	48	185	48
5	1040	149	197	385	792	1220	393	312	167	45	128	49
6	433	186	198	1450	617	669	389	296	153	41	126	43
7	328	260	207	1180	546	572	444	257	162	40	106	39
8	277	334	875	1030	502	632	410	228	183	37	130	37
9	236	390	950	732	617	1030	371	397	150	83	365	37
10	222	277	875	587	1910	832	409	677	142	94	543	35
11	210	229	661	480	1770	704	640	523	130	83	461	32
12	223	194	903	417	1210	601	562	338	116	68	509	81
13	198	190	1120	363	703	540	431	300	107	119	184	102
14	184	186	853	334	565	502	374	275	102	216	160	880
15	181	355	583	318	519	476	422	255	107	332	131	419
16	197	917	451	308	2060	1870	391	233	138	212	114	187
17	203	708	380	304	4360	6700	367	214	126	132	102	123
18	236	552	353	368	4680	9100	321	205	112	111	88	96
19	217	348	387	394	3700	6100	298	191	103	128	80	79
20	201	296	408	457	2350	3280	287	186	92	230	80	71
21	178	271	366	1630	1390	1050	306	187	84	290	82	66
22	166	295	318	1280	914	747	394	183	84	215	80	62
23	163	738	248	901	1010	670	430	180	97	177	78	60
24	156	575	288	760	992	605	336	178	84	167	67	55
25	155	439	283	2810	737	477	293	171	79	136	60	51
26	154	346	271	3650	586	329	270	162	74	114	56	48
27	149	298	270	3080	536	439	254	185	69	96	55	43
28	146	298	275	1520	511	333	511	258	76	86	52	43
29	144	296	272	753	---	465	619	326	84	82	51	42
30	141	266	299	723	---	511	424	230	66	61	79	42
31	141	---	370	604	---	543	---	182	---	57	72	---
TOTAL	26419	9976	13545	28349	35862	45670	12172	8209	3578	3677	4595	3078
MEAN	852	333	437	914	1281	1473	406	265	119	119	148	103
MAX	6240	917	1120	3650	4680	9100	640	677	189	332	543	880
MIN	141	141	197	304	457	329	254	162	66	37	51	32
CFM	3.46	1.35	1.78	3.72	5.21	5.99	1.65	1.08	.48	.48	.60	.42
IN.	4.00	1.51	2.05	4.29	5.42	6.91	1.84	1.24	.54	.56	.69	.47
CAL YR 1989	TOTAL	149097	MEAN	408	MAX	6240	MIN	76	CFM	1.66	IN	22.55
WTR YR 1990	TOTAL	195130	MEAN	535	MAX	9100	MIN	32	CFM	2.18	IN	29.51

APALACHICOLA RIVER BASIN

02337000 SWEETWATER CREEK NEAR AUSTELL, GA--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC 05...	0815	198	72	71	7.5	6.9	4.0	0.0	11.5	91
MAR 07...	0840	583	58	59	6.8	6.8	12.0	12.0	9.6	90
JUN 07...	0810	166	78	89	7.1	7.1	22.5	28.0	7.5	89
JUL 10...	0530	96	85	84	6.8	7.1	26.5	23.5	5.9	75
AUG 07...	0500	110	77	75	6.7	7.2	24.0	21.0	6.4	78
SEP 04...	0520	54	94	90	7.0	7.3	24.0	27.0	8.5	104

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC 05...	10	1.9	130	21	0.260	0.040	0.160	2.5
MAR 07...	21	0.8	4900	15	0.310	0.100	0.200	2.4
JUN 07...	44	1.8	17000	24	0.060	0.050	0.120	1.4
JUL 10...	19	0.6	330	28	0.340	0.100	0.080	3.2
AUG 07...	28	1.2	1300	21	0.240	<0.030	<0.020	4.5
SEP 04...	23	1.8	230	29	0.250	0.060	0.080	4.6

APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.

LOCATION.--Lat 33°39'24", long 84°40'25", Fulton-Douglas County line, Hydrologic Unit 03130002, at downstream end of bridge pier on State Highways 74 and 92, 1.4 mi downstream from Deep Creek, 8.5 mi northwest of Fairburn, and at mile 281.8.

DRAINAGE AREA.--2,060 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 719.07 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.--Estimated daily discharges: June 10, 11, 17, 18, 24-26, July 8, 9, 27-30, Aug. 5, 13, 19, 20, 26, 27, Sept. 2, 3, 16-18, 24, and 30.

Records good to fair, except those estimated daily discharges, which are fair. Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions and return flows above station regulated by Gwinnett, DeKalb, and Cobb Counties, and by the city of Atlanta. Considerable diurnal fluctuation caused by Morgan Falls hydro-electric plant.

AVERAGE DISCHARGE.--25 years, 3,570 ft³/s, 23.53 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,200 ft³/s, Mar. 17, 1990, gage height, 25.74 ft; minimum daily discharge, 1,000 ft³/s, July 1, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39,200 ft³/s, Mar. 17, 1990, gage height 25.74 ft; minimum daily discharge, 1,270 ft³/s, Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	26600	3980	2680	3480	8370	10800	4060	3290	3330	2890	2820	3060		
2	25200	4070	2390	4710	8220	10100	8590	3470	3330	2540	3920	1850		
3	14800	4100	1950	4860	8100	10600	9150	3310	2080	4480	4590	1400		
4	7730	4080	1910	4800	6400	5870	9110	3300	1920	4770	3560	3170		
5	4230	1900	3310	5290	5900	4600	9070	3980	2250	4790	1980	3420		
6	2900	1750	2560	9270	8100	8600	9090	2370	2620	4800	1750	3480		
7	2590	4570	2540	5310	8610	9410	8860	1980	2590	4740	4070	4640		
8	2220	5700	6640	4300	8350	9820	3230	3740	2400	1850	4640	3810		
9	1960	5900	5390	6080	9270	9680	3020	5220	2390	1750	6630	1680		
10	3000	5100	4380	6050	17500	10400	8420	6780	1750	3710	6050	1580		
11	4450	5000	3170	6060	8930	4620	9610	5040	1700	4400	5010	4770		
12	5300	2290	5490	5700	5980	3390	8820	4550	2280	4420	2300	3770		
13	4700	1720	6800	5430	8670	8020	9080	2680	2950	5410	1550	4030		
14	4770	2750	4560	2500	10400	8670	8070	2160	2630	4030	3890	9140		
15	2180	4460	3480	2070	10400	8540	3530	3850	2340	2320	4350	5970		
16	1720	9280	3120	4420	13300	12100	2770	4270	2570	1750	4220	1990		
17	4050	5410	2290	5100	19400	34000	5530	4290	1730	3670	4220	1500		
18	4960	4250	2180	5510	13100	34700	6010	4280	1500	1930	4320	1350		
19	4970	2450	3920	5580	15500	20300	5750	4080	2840	2100	1730	1360		
20	4970	1970	4240	5350	12100	10200	5780	2260	3370	4480	1300	2510		
21	4670	2670	4310	11700	11100	10500	5500	2170	4210	4100	2600	3120		
22	2030	3990	3880	5850	8680	11800	3020	3530	4280	1890	3120	3190		
23	1630	7460	3710	6190	8730	11700	2810	3870	4390	1830	5390	1790		
24	3830	5380	4210	5890	10400	11000	3770	3640	1800	2580	3990	1270		
25	4700	4300	2480	17300	10600	10200	3980	3700	1450	1910	3020	3250		
26	4750	2360	2820	14600	11400	11300	4610	3630	2930	1800	1600	3590		
27	4710	1960	4580	7930	11400	11200	3790	2560	3850	1550	1400	3450		
28	4680	2520	5020	4820	11400	9660	5410	4120	3660	1550	3990	3790		
29	1930	2800	5100	3640	---	9710	3850	4870	3820	1500	3960	3530		
30	1500	2590	4930	8100	---	9840	2500	3640	3690	1450	5810	1450		
31	3340	---	2980	8690	---	6920	---	3530	---	2770	4420	---		
TOTAL	171070	116760	117020	196580	290310	348250	176790	114160	82650	93760	112200	92910		
MEAN	5518	3892	3775	6341	10370	11230	5893	3683	2755	3025	3619	3097		
MAX	26600	9280	6800	17300	19400	34700	9610	6780	4390	5410	6630	9140		
MIN	1500	1720	1910	2070	5900	3390	2500	1980	1450	1450	1300	1270		
CAL YR 1989	TOTAL	1137260	MEAN	3116	MAX	26600	MIN	1240	MEAN†	3804	CFSM†	1.85	IN†	25.07
WTR YR 1990	TOTAL	1912460	MEAN	5240	MAX	34700	MIN	1270	MEAN†	4909	CFSM†	2.38	IN†	32.35

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to May 1972, March 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1976 to current year.

pH: July 1976 to current year.

WATER TEMPERATURE: October 1975 to current year.

DISSOLVED OXYGEN: July 1976 to current year.

INSTRUMENTATION.--Water-quality monitor. Specific Conductance, pH, Water Temperature, and Dissolved Oxygen are recorded hourly.

REMARKS.--Laboratory analyses are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 217 microsiemens Jan. 11, 1988; minimum recorded, 33 microsiemens July 7, 1976, May 3, 1985.

pH: Maximum recorded, 7.5 units Nov. 20-23, 1980; minimum recorded, 5.5 units Aug. 12, Sept. 13, 1978.

WATER TEMPERATURE: Maximum recorded, 32.0°C June 24, 1981; minimum recorded, 2.5°C Jan. 12, 1982.

DISSOLVED OXYGEN: Maximum recorded, 13.1 mg/L Mar. 24, 1977; minimum recorded, 1.6 mg/L July 26, 1977, Apr. 27, 1988.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 162 microsiemens July 28; minimum recorded, 42 microsiemens Mar. 17.

pH: Maximum recorded, 7.4 units Dec. 21; minimum recorded, 6.5 units Oct. 1, 2, 3, Mar. 17, 18, 19.

WATER TEMPERATURE: Maximum recorded, 30.0°C July 30, Aug. 28; minimum recorded, 5.5°C Dec. 24.

DISSOLVED OXYGEN: Maximum recorded, 11.9 mg/L Dec. 24; minimum recorded, 4.1 mg/L July 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 04...	0700	8560	67	61	6.6	6.4	19.0	15.5	7.1	78
NOV 07...	0900	4200	107	101	6.8	6.8	15.5	15.0	8.5	87
DEC 05...	0930	3600	92	87	7.2	6.9	9.0	6.0	10.7	95
JAN 04...	1300	4550	83	80	7.0	6.8	9.5	15.5	10.9	97
FEB 07...	1300	9370	63	68	7.1	7.0	10.5	19.0	10.8	98
MAR 07...	0900	9370	70	65	7.0	6.8	12.0	11.0	9.8	92
APR 03...	0900	9190	69	62	6.9	7.0	13.5	6.5	9.2	91
MAY 02...	0830	3950	87	86	7.0	7.0	19.5	20.5	8.1	90
JUN 06...	0930	3050	107	104	--	7.1	23.5	26.5	7.8	94
JUL 05...	0730	4720	69	66	7.0	6.8	18.5	27.5	9.3	101
SEP 04...	0900	3830	94	106	6.9	7.0	26.0	23.5	7.2	89

APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)
OCT						
04...	90	38	3.3	63500	12	86
NOV						
07...	70	37	5.2	17000	22	89
DEC						
05...	17	--	3.2	4900	21	--
JAN						
04...	16	18	1.8	50	17	20
FEB						
07...	29	17	--	230	16	51
MAR						
07...	19	<5	1.5	1300	14	27
APR						
03...	--	20	4.0	180	16	42
MAY						
02...	23	7	0.9	310	--	42
JUN						
06...	24	14	1.6	1300	19	59
JUL						
05...	9.0	--	1.3	330	12	32
SEP						
04...	30	13	1.7	3300	18	57

DATE	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
04...	0.430	0.160	0.64	0.80	1.2	0.230	--
NOV							
07...	1.15	0.360	0.64	1.0	2.2	0.390	5.0
DEC							
05...	0.790	0.640	--	--	--	0.330	3.9
JAN							
04...	0.480	0.500	0.10	0.60	1.1	0.340	3.4
FEB							
07...	0.340	0.480	0.32	0.80	1.1	0.150	3.0
MAR							
07...	0.460	0.340	0.26	0.60	1.1	0.290	4.1
APR							
03...	0.510	0.350	0.15	0.50	1.0	0.140	3.9
MAY							
02...	0.850	0.320	0.24	0.56	1.4	0.220	8.5
JUN							
06...	1.27	0.140	0.26	0.40	1.7	0.300	3.3
JUL							
05...	0.070	<0.030	--	--	--	0.110	3.3
SEP							
04...	1.65	0.160	0.34	0.50	2.2	0.340	5.0

APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	48	43	98	73	139	103	124	96	75	57	74	58
2	54	47	100	74	133	110	94	78	73	57	77	58
3	61	53	91	74	133	130	87	73	75	56	82	67
4	83	62	93	74	129	121	94	78	87	71	83	73
5	117	84	125	90	133	92	93	78	84	74	102	85
6	134	118	137	126	124	95	84	67	85	57	96	57
7	130	122	146	71	132	95	88	70	72	61	71	57
8	143	129	90	66	131	74	104	90	74	59	79	58
9	140	129	81	67	94	76	104	74	73	58	84	66
10	146	107	83	70	92	83	80	73	---	---	83	59
11	117	80	89	69	107	91	79	67	---	---	103	72
12	86	67	127	82	127	80	82	74	94	80	123	104
13	90	74	137	123	91	75	83	72	94	59	100	62
14	89	74	143	103	97	85	124	86	61	57	80	59
15	123	89	112	80	112	93	130	123	61	56	83	59
16	136	124	83	66	121	100	134	77	73	49	80	54
17	148	72	87	72	135	112	87	74	58	50	56	42
18	94	71	95	83	130	121	88	73	60	53	48	44
19	91	70	118	91	141	105	86	73	67	55	68	49
20	89	70	131	119	138	100	80	66	69	60	86	68
21	89	73	134	109	115	89	75	60	73	57	87	59
22	125	92	119	85	108	86	93	75	93	70	65	60
23	135	124	92	67	110	87	96	74	88	66	64	59
24	142	72	75	71	99	75	88	67	73	57	72	59
25	87	73	85	75	115	82	70	54	71	57	72	56
26	86	70	115	86	121	92	72	58	60	56	62	58
27	89	70	122	113	107	78	77	72	62	58	67	58
28	88	66	136	108	89	72	97	77	60	57	73	58
29	124	81	137	106	90	72	118	98	---	---	74	59
30	138	125	128	107	83	75	101	58	---	---	75	58
31	142	86	---	---	119	84	73	58	---	---	83	66
MONTH	148	43	146	66	141	72	134	54	94	49	123	42

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.6	6.5	7.0	7.0	7.1	7.1	7.1	7.0	7.1	7.0	7.0	7.0
2	6.5	6.5	7.1	7.0	7.1	7.0	7.1	7.1	7.1	7.0	7.0	7.0
3	6.6	6.5	7.0	7.0	7.1	7.1	7.1	7.0	7.0	7.0	7.0	6.9
4	6.8	6.6	7.0	6.9	7.1	7.1	7.1	7.0	7.0	7.0	6.9	6.9
5	6.9	6.8	7.0	6.9	7.2	7.1	7.1	7.0	7.0	7.0	7.0	6.9
6	6.9	6.9	6.9	6.8	7.1	7.1	7.0	6.9	7.0	7.0	7.0	7.0
7	6.9	6.9	6.9	6.8	7.1	7.1	7.0	6.9	7.1	7.0	7.0	7.0
8	7.0	6.9	6.8	6.7	7.1	7.0	7.0	7.0	7.1	7.1	7.1	7.0
9	7.0	7.0	6.8	6.8	7.1	7.0	7.0	7.0	7.1	7.0	7.1	7.0
10	7.0	7.0	6.9	6.8	7.2	7.1	7.1	7.0	---	---	7.0	7.0
11	7.0	6.9	6.9	6.8	7.2	7.1	7.0	7.0	---	---	7.0	6.9
12	6.9	6.8	7.0	6.9	7.1	7.1	7.0	7.0	7.0	6.9	7.0	6.9
13	6.9	6.8	7.0	6.9	7.3	7.1	7.1	7.0	7.1	7.0	7.0	7.0
14	6.9	6.8	7.0	7.0	7.3	7.3	7.0	6.9	7.1	7.0	7.0	7.0
15	6.9	6.9	7.0	6.9	7.3	7.2	7.0	7.0	7.0	7.0	7.0	7.0
16	6.9	6.9	7.0	6.7	7.3	7.3	7.1	7.0	7.1	6.7	7.0	6.7
17	6.9	6.8	7.0	6.9	7.3	7.3	7.0	7.0	6.7	6.7	6.8	6.5
18	6.9	6.8	7.1	7.0	7.3	7.3	7.0	7.0	6.9	6.7	6.5	6.5
19	6.9	6.8	7.0	7.0	7.3	7.2	7.0	7.0	6.9	6.9	6.7	6.5
20	7.0	6.9	7.0	7.0	7.2	7.2	7.0	6.8	6.9	6.9	6.8	6.7
21	7.0	6.9	7.1	7.0	7.4	7.2	6.9	6.7	7.0	6.9	6.9	6.8
22	6.9	6.9	7.1	7.0	7.3	7.2	7.0	6.9	7.2	7.0	6.9	6.8
23	7.0	6.9	7.0	6.9	7.3	7.2	7.0	7.0	7.0	7.0	6.9	6.8
24	7.0	6.8	7.1	7.0	7.2	7.1	7.1	6.9	7.1	7.0	6.9	6.9
25	6.8	6.8	7.1	7.0	7.1	7.0	7.0	6.8	7.1	7.0	6.9	6.9
26	6.9	6.8	7.1	7.0	7.1	7.0	6.9	6.8	7.0	7.0	6.9	6.9
27	6.9	6.9	7.0	7.0	7.2	7.0	7.0	6.9	7.0	7.0	6.9	6.9
28	6.9	6.9	7.0	7.0	7.1	7.0	7.0	7.0	7.0	7.0	6.9	6.9
29	7.0	6.9	7.1	7.0	7.1	7.0	7.1	7.0	---	---	6.9	6.9
30	7.0	6.9	7.1	7.1	7.1	7.0	7.1	7.0	---	---	6.9	6.9
31	7.0	6.9	---	---	7.1	7.0	7.1	7.0	---	---	6.9	6.8
MONTH	7.0	6.5	7.1	6.7	7.4	7.0	7.1	6.7	7.2	6.7	7.1	6.5

PH (STANDARD UNITS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.0	18.5	17.5	16.0	14.0	12.0	11.5	10.5	10.0	8.5	11.0	10.5
2	19.0	18.5	16.5	15.0	13.5	12.0	10.0	8.5	10.5	10.0	11.5	10.5
3	19.5	19.0	15.5	14.5	13.5	11.0	10.0	8.5	12.0	10.5	12.0	11.0
4	20.0	19.0	15.5	14.5	11.5	9.5	10.0	9.5	15.0	12.0	13.0	12.0
5	20.5	19.5	17.0	14.0	12.0	9.0	10.5	10.0	14.5	12.5	14.5	12.5
6	21.0	20.0	18.5	16.5	13.0	10.0	11.0	10.5	12.5	9.5	13.5	11.0
7	21.5	20.5	18.5	14.5	13.0	11.5	11.0	11.0	11.0	10.0	12.5	11.5
8	21.5	20.5	17.0	15.5	13.0	10.5	11.5	10.5	11.0	10.0	12.5	10.5
9	20.0	19.5	17.0	15.5	10.5	9.5	11.0	9.0	11.0	10.0	11.5	10.0
10	19.5	17.5	16.0	15.0	10.0	9.0	9.5	9.0	---	---	12.5	11.0
11	17.5	15.0	16.0	14.5	11.0	9.5	9.5	9.0	---	---	16.5	13.0
12	16.5	15.5	17.5	15.5	12.5	9.5	9.5	9.0	12.5	11.5	18.5	16.5
13	17.0	16.0	18.5	17.0	9.5	9.0	9.0	8.0	12.0	10.0	17.0	13.5
14	17.0	15.5	19.0	16.0	9.5	8.0	10.0	8.0	11.0	10.0	14.5	13.0
15	19.5	16.5	17.5	16.0	9.5	8.5	11.0	9.0	12.0	10.5	15.0	13.0
16	21.0	19.5	17.0	14.5	9.0	7.5	11.5	9.0	15.5	12.0	16.0	14.0
17	21.5	16.5	14.5	12.5	8.5	7.5	11.5	10.0	15.5	14.5	16.0	15.5
18	18.5	16.0	13.0	12.0	9.0	7.5	12.0	11.0	14.5	12.0	15.5	15.0
19	17.0	14.0	13.5	12.0	9.5	6.5	12.0	11.0	11.5	10.0	15.5	15.0
20	14.5	12.5	14.5	12.5	9.0	8.0	11.5	11.0	12.0	11.5	15.0	13.0
21	14.0	12.5	15.0	13.0	9.5	8.5	12.5	12.0	12.5	10.5	13.0	11.0
22	16.5	14.0	13.0	12.0	9.0	7.0	12.0	11.0	13.0	11.0	12.0	11.0
23	18.5	16.5	12.0	10.0	7.5	6.0	12.0	10.0	13.5	11.5	13.0	12.0
24	18.5	14.5	10.5	10.5	6.5	5.5	10.5	10.0	11.5	10.5	14.0	12.5
25	16.5	15.5	11.5	10.5	7.0	6.0	11.0	10.5	10.5	9.0	14.0	12.5
26	16.5	15.0	14.0	11.5	7.0	6.0	10.5	9.5	9.5	9.0	13.5	12.0
27	16.5	15.0	16.0	14.0	8.5	6.0	9.5	9.0	10.0	9.5	12.5	11.0
28	17.0	15.5	18.0	15.5	8.5	8.0	10.0	9.0	10.5	10.0	13.0	11.5
29	18.5	16.0	17.0	14.0	9.0	8.0	12.5	10.0	---	---	13.5	12.0
30	20.0	18.0	15.5	12.0	9.5	9.0	10.5	9.0	---	---	12.5	11.5
31	20.5	16.5	---	---	11.5	9.5	9.5	8.5	---	---	14.5	12.5
MONTH	21.5	12.5	19.0	10.0	14.0	5.5	12.5	8.0	15.5	8.5	18.5	10.0

[illegible]

APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.5	7.2	9.0	8.6	10.0	9.2	10.3	9.6	11.4	10.9	10.7	10.3
2	7.4	7.1	9.2	8.8	9.8	9.0	11.2	10.5	11.1	10.8	10.4	10.0
3	7.4	7.0	9.3	8.9	9.7	9.2	11.2	11.0	10.9	10.4	10.0	9.8
4	7.4	7.1	9.6	9.1	10.2	9.8	11.0	10.5	10.3	8.8	9.8	9.6
5	7.4	6.6	9.6	8.6	10.8	9.9	10.8	10.5	9.9	9.2	9.5	9.3
6	6.7	6.4	8.8	8.2	10.3	9.0	10.6	9.7	11.0	9.8	10.5	9.2
7	6.9	6.5	9.2	7.8	9.7	9.0	10.6	10.0	10.8	10.5	10.5	9.8
8	6.9	6.7	8.8	8.2	9.9	8.9	10.2	9.8	11.0	10.3	10.2	9.8
9	7.2	6.9	8.8	8.4	10.2	9.8	11.1	10.0	10.9	10.4	10.2	9.8
10	7.9	6.9	9.2	8.6	10.4	10.1	11.0	10.7	---	---	10.8	9.8
11	8.3	7.9	9.3	8.6	10.3	9.8	11.1	10.6	---	---	10.3	9.0
12	8.5	8.0	9.1	8.4	10.0	9.3	10.9	10.5	11.1	10.4	9.0	8.4
13	8.3	7.9	8.5	8.2	10.3	9.9	11.3	10.8	11.2	10.3	10.8	8.8
14	8.3	8.0	9.0	8.1	10.7	10.2	11.1	10.0	11.0	10.9	11.1	10.0
15	8.0	7.3	9.0	6.7	10.6	10.4	10.2	9.9	10.8	10.5	10.7	9.9
16	7.4	7.0	8.8	7.0	10.8	10.3	10.7	9.9	10.5	8.8	10.2	8.9
17	8.1	6.6	9.5	8.7	11.0	10.5	10.5	10.2	9.1	8.7	9.1	8.9
18	8.1	7.6	9.7	9.4	10.9	10.6	10.2	9.7	9.9	9.1	9.0	8.9
19	8.5	7.6	9.7	9.0	11.2	10.5	10.0	9.7	10.1	9.8	9.2	9.0
20	9.0	8.4	9.2	8.5	10.9	10.4	10.0	9.6	9.8	9.4	9.9	9.2
21	9.2	8.6	9.3	8.4	10.9	10.4	9.5	8.9	10.0	9.0	11.2	9.8
22	8.7	8.3	9.5	9.2	11.0	10.0	9.8	9.4	9.3	8.8	11.1	10.6
23	8.3	8.0	10.0	9.1	11.5	11.0	10.4	9.5	9.3	8.7	11.0	10.5
24	8.8	7.6	10.3	9.8	11.9	11.3	10.5	10.2	10.0	9.1	10.9	10.4
25	8.7	8.2	10.3	10.0	11.6	11.1	10.6	10.1	10.6	9.9	11.0	10.2
26	8.7	8.3	10.1	9.4	11.6	11.1	11.0	10.4	10.8	10.5	10.8	10.6
27	8.8	8.3	9.4	8.7	11.8	11.0	11.1	10.9	10.9	10.7	10.9	10.3
28	8.7	8.3	9.1	8.5	11.2	10.9	11.0	10.7	10.8	10.6	10.5	9.9
29	8.5	8.1	9.2	8.5	11.3	10.9	10.6	9.8	---	---	10.1	9.6
30	8.0	7.7	9.7	8.9	11.1	10.9	11.3	10.1	---	---	9.7	9.4
31	8.8	7.7	---	---	10.9	9.8	11.4	11.0	---	---	9.8	9.0
MONTH	9.2	6.4	10.3	6.7	11.9	8.9	11.4	8.9	11.4	8.7	11.2	8.4

[illegible]

APALACHICOLA RIVER BASIN

02337445 CHATTAHOOCHEE RIVER AT CAPPS FERRY BRIDGE NEAR RICO, GA.

LOCATION.--Lat 33°34'40", long 84°48'31", Fulton-Douglas County line, Hydrologic Unit 03130002, at bridge on Capps Ferry Road, 0.4 mi upstream from Mill Branch, 2.3 mi west of Rico, and at mile 271.1.

DRAINAGE AREA.--2,270 mi², approximately.

PERIOD OF RECORD.--Water years 1976-77; September 1988, July 1990 to September 1990.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
JUL 10...	0630	--	120	117	6.6	6.7	26.0	26.0	4.2	53
12...	1115	4600	--	71	--	6.8	21.0	31.0	7.9	--
AUG 07...	0600	2400	120	116	6.9	7.0	26.0	24.0	5.4	68
SEP 04...	0615	2140	123	123	7.0	7.0	27.0	21.0	5.8	74

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUL 10...	50	3.5	17000	19	70	1.93	0.180	0.340	4.9
12...	24	2.0	4900	12	51	1.03	0.080	0.240	3.4
AUG 07...	31	2.5	14000	20	56	1.91	0.100	0.370	5.4
SEP 04...	23	0.4	1100	21	41	2.16	0.110	0.370	3.3

APALACHICOLA RIVER BASIN

02337500 SNAKE CREEK NEAR WHITESBURG, GA.

LOCATION.--Lat 33°31'46", long 84°55'42", Carroll County, Hydrologic Unit 03130002, on left bank, on downstream side of former bridge pier, 50 ft upstream from county highway bridge, at Banning Mills, 1.6 mi north of U.S. Highway 27 (ALT), 3 mi northwest of Whitesburg, 4 mi downstream from Little Snake Creek, and 7 mi upstream from mouth.

DRAINAGE AREA.--35.5 mi² (revised).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1954 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 850 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good, except those greater than 200 ft³/s, which are fair.

AVERAGE DISCHARGE.--36 years, 56.7 ft³/s, 21.69 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,690 ft³/s, Feb. 25, 1961, gage height, 14.40 ft; minimum discharge, 2.3 ft³/s, Oct. 7, 1954, gage height, 1.56 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1230	2,970	9.06	Feb. 16	1400	2,300	8.02
Jan. 25	1115	1,690	6.81	Mar. 16	2230	*5,220	*12.37
Feb. 9	2115	2,860	8.89				

Minimum discharge, 10 ft³/s, Sept. 8, gage height, 1.97 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	985	37	42	52	80	104	106	69	46	27	19	14
2	251	37	41	48	78	214	104	67	52	27	21	13
3	132	37	40	47	75	236	100	64	49	26	22	13
4	80	36	39	50	136	140	98	64	46	25	20	12
5	67	36	39	51	93	122	96	74	44	24	19	12
6	61	38	39	84	81	114	97	66	42	24	20	12
7	57	41	42	70	83	109	96	63	50	23	19	11
8	52	46	171	73	76	111	91	61	49	23	18	11
9	48	41	105	64	535	121	90	106	43	22	17	12
10	47	38	92	60	441	110	101	95	41	21	42	12
11	46	37	72	57	174	106	107	72	39	21	28	13
12	45	36	163	54	123	101	92	67	38	22	23	14
13	44	36	117	52	106	98	89	70	36	33	20	18
14	44	37	82	51	99	97	88	65	36	73	22	36
15	43	51	71	50	94	96	102	61	37	37	19	24
16	42	85	62	49	708	1460	89	59	37	31	18	19
17	43	49	58	49	285	1930	85	60	35	27	16	16
18	51	43	58	58	188	294	82	58	34	26	16	15
19	44	41	64	53	337	198	80	55	33	32	15	14
20	42	40	61	85	169	151	80	55	32	41	15	14
21	40	39	56	320	131	137	84	58	33	34	15	13
22	40	53	53	108	253	130	87	55	37	29	15	13
23	40	116	51	84	184	125	80	53	46	27	21	13
24	39	63	56	204	133	121	76	52	35	26	17	12
25	39	56	50	971	129	117	74	50	32	24	16	12
26	38	50	50	249	121	116	72	49	31	23	15	12
27	38	47	49	127	108	113	71	51	30	23	15	11
28	38	47	48	99	106	109	93	57	31	22	14	11
29	37	44	47	99	---	117	81	50	28	21	13	11
30	37	42	50	93	---	114	73	47	29	20	13	11
31	37	---	56	86	---	111	---	46	---	19	13	---
TOTAL	2647	1399	2024	3597	5126	7222	2664	1919	1151	853	576	424
MEAN	85.4	46.6	65.3	116	183	233	88.8	61.9	38.4	27.5	18.6	14.1
MAX	985	116	171	971	708	1930	107	106	52	73	42	36
MIN	37	36	39	47	75	96	71	46	28	19	13	11
CFSM	2.41	1.31	1.84	3.27	5.16	6.56	2.50	1.74	1.08	.78	.52	.40
IN.	2.77	1.47	2.12	3.77	5.37	7.57	2.79	2.01	1.21	.89	.60	.44
CAL YR 1989	TOTAL	20655	MEAN	56.6	MAX	985	MIN	20	CFSM	1.59	IN	21.64
WTR YR 1990	TOTAL	29602	MEAN	81.1	MAX	1930	MIN	11	CFSM	2.29	IN	31.02

APALACHICOLA RIVER BASIN

02337500 SNAKE CREEK NEAR WHITESBURG, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to June 1979, July 1990 to September 1990.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1961 to September 1962.

WATER TEMPERATURE: June 1960 to September 1964.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 138 microsiemens Aug. 14, 1962; minimum daily, 25 microsiemens Feb.22, 1962.

WATER TEMPERATURE: Maximum, 34°C May 18, 19, 23, 1962; minimum, 0.0°C Jan. 10, 1962.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
FEB 05...	0800	95	37	34	7.1	7.7	10.0	11.2	101
AUG 27...	0700	15	32	32	7.2	7.3	24.0	7.3	89

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	HARD-NESS TOTAL (MG/L AS CaCO3)	HARD-NESS NONCARB DISSOLV LAB AS CaCO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT.DIS FET LAB CaCO3 (MG/L)
FEB 05...	55	18	8	1	1.7	0.87	2.3	35	0.4	1.0	7.0
AUG 27...	36	6.5	8	0	1.8	0.77	2.5	38	0.4	1.0	11

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SOLIDS, SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-NITRO-GEN, NO2 + NO3 TOTAL (MG/L AS N)	GEN, NO2 + NO3 DIS-SOLVED (MG/L AS N)	NITRO-NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	GEN, AMMONIA DIS-SOLVED (MG/L AS N)
FEB 05...	3.0	2.4	0.10	8.8	32	--	--	--	0.200	0.190	0.020	0.010
AUG 27...	<1.0	2.6	<0.10	9.7	22	--	--	--	0.100	0.200	0.020	0.060

APALACHICOLA RIVER BASIN

02337500 SNAKE CREEK NEAR WHITESBURG, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)
FEB 05...	0.18	0.19	0.20	0.20	0.40	0.39	0.100	0.080	2.4	30	<1	<1
AUG 27...	0.28	--	0.30	<0.20	0.40	--	0.040	0.030	2.2	30	<1	<1

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, DIS- SOLVED (UG/L AS ZN)
FEB 05...	<1.0	<5	<10	93	1	<10	42	<0.10	<0.1	<1	<3
AUG 27...	<1.0	<1	1	190	2	<1	30	0.30	<0.1	<1	8

APALACHICOLA RIVER BASIN

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.

LOCATION.--Lat 33°28'37", long 84°54'04", Carroll-Coweta County line, Hydrologic Unit 03130002, at downstream end of right bank pier of bridge on State Highway 16, 0.5 mi upstream from Central of Georgia Railroad bridge, 1.2 mi southeast of Whitesburg, 1.5 mi downstream from Cedar Creek, 2.0 mi downstream from Snake Creek, and at mile 259.8.

DRAINAGE AREA.--2,430 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to June 1954, January 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 682.06 ft above National Geodetic Vertical Datum of 1929. Prior to May 1, 1949, nonrecording gage at site 1.0 mi upstream at datum 2.00 ft higher. May 1, 1949 to June 30, 1954, nonrecording gage at present site at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions and return flows above station regulated by Gwinnett, DeKalb, and Cobb Counties, and by the City of Atlanta. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant.

AVERAGE DISCHARGE.--40 years (water years 1939-53, 1966-90), 3,960 ft³/s, 22.13 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,000 ft³/s, Jan. 10, 1946, gage height, 25.1 ft, site and datum then in use, from graph based on gage readings, from rating extended above 30,000 ft³/s on basis of velocity-area and channel-capacity studies; minimum daily discharge, 468 ft³/s, Oct. 26, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 48,700 ft³/s, Mar. 18, gage height, 25.90 ft; minimum daily discharge, 1,480 ft³/s, Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	29000	3960	2690	3510	9620	11700	5160	3390	3570	3420	2770	3260		
2	37500	4080	2640	4780	9440	10300	7630	3660	3550	2610	3420	2360		
3	28800	4360	2130	5210	9340	12600	9510	3590	2700	3560	4760	1570		
4	11600	4210	2090	5140	8240	7610	9430	3480	2170	4670	3680	2620		
5	5980	2700	2870	5670	7540	5160	9340	3940	2280	4710	2670	3290		
6	3400	1790	3030	9770	8570	7900	9370	3310	2610	4700	1890	3340		
7	3050	3670	2670	7720	9890	9700	9470	2310	2950	4710	3220	4040		
8	2580	5720	6660	5110	9660	9820	5080	3170	2590	2830	4270	4120		
9	2280	6360	7180	6450	10300	11000	2970	4830	2700	1710	6810	2220		
10	2790	5500	5550	6780	22700	10400	7210	7830	1940	2660	6350	1680		
11	4110	5180	3910	6830	17300	6820	10700	5600	1720	4400	5530	3940		
12	5500	3520	5060	6430	7460	3760	8860	4960	1910	4370	3320	3900		
13	5160	1930	9560	6140	8770	7230	9420	3670	2980	5120	1930	3810		
14	5090	2300	5660	3780	11800	8890	9010	2650	2940	4700	3220	7980		
15	3260	4040	4220	2400	11800	8790	4970	3340	2470	3000	4300	7680		
16	2050	10200	3650	3930	15900	13500	3210	4470	2530	1980	4260	2830		
17	3300	6860	2840	5460	27200	42500	5130	4430	1980	3040	4200	1760		
18	5200	4800	2490	5780	19900	47600	5960	4490	1640	2650	4140	1620		
19	5210	3310	3750	6180	19300	38300	6000	4360	2310	1990	2830	1570		
20	5110	2220	4740	6260	17100	18200	5940	3190	3230	4250	1490	2350		
21	5210	2550	4660	17100	12100	10800	5890	2400	3990	4230	2180	3120		
22	2960	3660	4280	9520	10500	12700	4200	3310	4330	2670	3020	3190		
23	1870	8120	3890	7080	9590	12500	3050	3930	4530	2030	4660	2560		
24	2930	6450	4120	6910	10800	12100	3700	3920	2600	2540	4740	1480		
25	4830	5050	3470	21900	11000	10400	4260	3850	1540	2200	3320	2790		
26	4880	3280	2690	25900	11900	11700	4460	3830	2090	1970	2210	3680		
27	4860	2290	4370	11500	11900	11900	4280	2650	3790	1720	1520	3670		
28	4850	2520	5310	7020	11800	10400	5050	3810	3710	1580	3160	3790		
29	3110	2970	5270	4290	---	10000	5420	5700	3750	1600	4140	3790		
30	1710	2830	5420	8310	---	10500	3000	3980	3730	1490	5370	2220		
31	2610	---	3940	10200	---	8010	---	3660	---	2250	4530	---		
TOTAL	210790	126430	130810	243060	351420	412790	187680	121710	84830	95360	113910	96230		
MEAN	6800	4214	4220	7841	12550	13320	6256	3926	2828	3076	3675	3208		
MAX	37500	10200	9560	25900	27200	47600	10700	7830	4530	5120	6810	7980		
MIN	1710	1790	2090	2400	7460	3760	2970	2310	1540	1490	1490	1480		
CAL YR 1989	TOTAL	1330900	MEAN	3646	MAX	37500	MIN	1350	MEAN†	4334	CFSM†	1.78	IN†	24.21
WTR YR 1990	TOTAL	2175020	MEAN	5959	MAX	47600	MIN	1480	MEAN†	5628	CFSM†	2.32	IN†	31.43

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

APALACHICOLA RIVER BASIN

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to May 1972, July 1975 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: August 1975 to September 1976, November 1978 to September 1984.

REMARKS.--Laboratory analyses with the analyzing agency code 84213 are provided by the U.S. Geological Survey. Laboratory analyses with the analyzing agency code 81314 are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 31.5°C June 24, 1981; minimum, 1.5°C Jan. 13, 1982.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT											
03...	1140	81341	29600	52	49	6.5	6.4	19.0	26.0	6.4	71
NOV											
08...	1210	81341	5100	69	67	6.8	6.7	15.0	21.0	8.7	89
DEC											
05...	1030	81341	3040	103	100	7.3	6.9	8.5	10.0	10.2	89
JAN											
16...	1200	81341	4350	108	109	6.9	6.7	10.0	21.0	9.3	84
FEB											
07...	0745	81341	9060	62	64	7.1	6.9	11.0	11.5	9.5	88
MAR											
07...	1150	81341	9260	65	64	6.9	6.7	13.0	25.0	9.0	86
APR											
05...	0730	81341	8580	58	57	7.1	6.9	12.0	13.5	9.3	89
MAY											
03...	1040	81341	4090	90	90	6.9	7.1	21.0	26.5	6.7	77
JUN											
07...	0930	81341	3090	104	92	--	7.0	23.0	29.0	8.2	98
JUL											
10...	0730	81341	1670	119	118	--	6.9	26.0	26.0	6.2	78
AUG											
07...	0645	81341	2000	120	115	7.0	7.1	25.0	21.0	5.9	73
SEP											
04...	0700	81341	1700	115	113	7.1	7.1	25.5	22.0	5.7	71

APALACHICOLA RIVER BASIN

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	AGENCY ANA- LYZING SAMPLE (CODE) NUMBER	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 03...	81341	130	2.3	--	10	86	0.300	0.070	0.150	--
NOV 08...	81341	36	1.8	8000	15	2	0.610	0.100	0.250	4.9
DEC 05...	81341	11	2.8	4900	22	12	1.68	0.340	0.450	3.6
JAN 16...	81341	19	3.0	330	21	32	1.43	0.550	0.250	7.5
FEB 07...	81341	37	2.0	700	14	53	0.340	0.230	0.100	2.6
MAR 07...	81341	20	1.5	230	15	65	0.530	0.240	0.200	2.5
APR 05...	81341	15	1.2	330	15	17	<0.020	0.150	0.100	3.5
MAY 03...	81341	18	1.8	90	20	29	1.03	0.140	0.180	2.8
JUN 07...	81341	25	1.1	490	18	51	0.510	0.030	0.210	3.8
JUL 10...	81341	8.0	0.4	4100	20	12	1.98	0.030	0.260	2.7
AUG 07...	81341	16	1.6	1700	16	26	2.03	0.040	0.310	5.9
SEP 04...	81341	20	0.7	1700	20	25	1.93	0.080	0.250	4.1

APALACHICOLA RIVER BASIN

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT						
01...	1328	84213	30000	--	506	41000
02...	1128	84213	38300	--	256	26500
02...	1133	84213	38300	--	255	26400
03...	1034	84213	30200	--	219	17900
03...	1039	84213	30200	--	224	18300
04...	1119	84213	10900	--	190	5590
04...	1124	84213	10900	--	191	5620
NOV						
08...	1115	84213	4950	15.0	91	1220
08...	1120	84213	4950	15.0	87	1160
DEC						
21...	1145	84213	5040	--	39	531
21...	1150	84213	5040	--	38	517
JAN						
29...	1414	84213	4020	--	72	781
29...	1419	84213	4020	--	75	814
MAR						
12...	1314	84213	3630	--	49	480
12...	1319	84213	3630	--	51	500
APR						
23...	1444	84213	2940	18.0	16	127
23...	1449	84213	2940	18.0	16	127
JUN						
04...	1214	84213	2280	22.0	32	197
04...	1219	84213	2280	22.0	29	179
AUG						
27...	1344	84213	1600	--	17	73
27...	1349	84213	1600	--	16	69

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
OCT								
01...	1323	84213	30000	54	69	90	99	100
01...	1328	84213	30000	54	--	--	--	--
03...	1034	84213	30200	54	--	--	--	--

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
OCT												
04...	1140	84213	10800	<1	<1	1	19	50	74	88	95	100
04...	1141	84213	10800	<1	<1	2	32	72	89	93	94	100
SEP												
26...	1404	84213	3900	<1	<1	4	29	68	86	93	95	100
26...	1405	84213	3900	<1	1	9	24	48	72	89	97	100
26...	1406	84213	3900	<1	2	8	32	50	63	79	93	96

APALACHICOLA RIVER BASIN

02338500 CHATTAHOOCHEE RIVER AT FRANKLIN, GA.

LOCATION.--Lat 33°16'45", long 85°06'00", Heard County, Hydrologic Unit 03130002, at the bridge on U.S. Highway 27 at Franklin, and at mile 235.5.

DRAINAGE AREA.--2,680 mi², approximately.

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

REMARKS.--Flow regulated by Lake Sidney Lanier (see "Lakes and Reservoirs in Apalachicola River Basin," station 02334400). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Records of discharge for the calendar years 1928-31 and 1938-39 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	GAGE HEIGHT (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
03...	1310	22.64	50	46	6.6	6.3	19.5	27.0	6.3	70
NOV										
08...	1300	12.27	103	101	6.9	6.7	17.0	19.0	7.8	83
DEC										
05...	1300	8.42	105	108	7.0	7.0	10.0	17.5	10.0	90
JAN										
16...	1320	7.96	95	95	7.1	6.9	10.0	24.5	10.5	94
FEB										
07...	1020	13.59	57	56	6.8	6.9	11.0	13.5	9.4	87
MAR										
07...	1230	--	56	55	6.8	6.7	12.5	24.0	9.7	91
APR										
05...	0920	13.34	57	57	7.0	6.9	12.0	18.0	9.6	91
MAY										
03...	1130	12.72	102	104	7.1	6.9	24.0	28.0	7.2	87
JUN										
07...	1200	12.36	112	111	7.1	7.2	26.5	37.5	7.4	94
JUL										
10...	1030	--	90	91	--	7.1	27.0	33.0	7.2	92
12...	0945	9.89	85	77	7.2	7.0	23.0	28.0	7.9	94
AUG										
07...	0830	8.64	103	102	7.4	6.9	26.0	24.0	6.6	83
SEP										
04...	0845	7.49	112	111	7.2	7.2	26.0	26.0	6.3	79

APALACHICOLA RIVER BASIN

02338500 CHATTAHOOCHEE RIVER AT FRANKLIN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
03...	150	1.8	--	8	106	0.350	<0.030	0.160	--
NOV									
08...	52	3.4	1300	20	1	1.22	0.150	0.340	4.0
DEC									
05...	10	2.0	<20	22	9	1.50	0.030	0.260	--
JAN									
16...	12	2.0	<20	17	23	1.11	0.330	0.140	2.1
FEB									
07...	360	1.7	480	11	81	0.420	0.160	0.110	3.1
MAR									
07...	42	1.1	790	11	110	0.490	0.140	0.240	2.8
APR									
05...	25	1.4	50	13	43	0.530	0.100	0.200	3.8
MAY									
03...	18	1.2	220	20	35	1.28	0.100	0.180	3.3
JUN									
07...	15	1.0	220	18	27	1.02	<0.030	0.260	2.6
JUL									
10...	7.0	0.4	50	16	12	0.960	<0.030	0.120	2.2
12...	27	1.1	790	15	60	1.06	<0.030	0.190	3.2
AUG									
07...	15	1.1	490	19	26	1.29	<0.030	0.170	3.4
SEP									
04...	18	0.6	460	19	20	1.29	0.040	0.160	4.9

APALACHICOLA RIVER BASIN

02338660 NEW RIVER NEAR CORINTH, GA.

LOCATION.--Lat 33°14'07", long 84°59'16", Heard County, Hydrologic Unit 03130002, at bridge on State Highway 100, 1.7 mi downstream of Caney Creek, 2.5 mi west of Corinth, 3.9 mi downstream of Mountain Creek, and 8.1 mi upstream of Chattahoochee River.

DRAINAGE AREA.--127 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 634.68 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Daily water temperature record available for water years 1979-84.

AVERAGE DISCHARGE.--12 years, 149 ft³/s, 15.93 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,000 ft³/s, Mar. 17, 1990, gage-height, 17.17 ft; minimum daily discharge, 0.24 ft³/s, Aug. 7, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 1,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	0400	2,650	10.45	Feb. 17	0600	6,060	13.46
Jan. 21	2200	2,700	10.51	Feb. 19	2000	2,970	10.79
Jan. 25	2100	3,630	11.40	Mar. 17	1500	*10,000	*17.17

Minimum daily discharge, 7.9 ft³/s, Sept. 12.

REVISIONS.--The maximum discharge for the water year 1979 has been revised to 6,520 ft³/s, Apr. 14, 1979 gage height 13.92 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1350	59	87	292	299	278	264	215	73	22	27	16
2	1990	57	83	190	271	293	247	174	76	20	46	16
3	636	61	80	151	253	446	256	143	79	19	94	14
4	333	63	77	145	281	387	231	126	81	19	88	13
5	225	62	76	173	361	294	208	123	73	18	54	12
6	170	64	75	476	261	261	211	127	63	17	43	11
7	140	72	82	662	247	243	253	117	58	16	36	10
8	124	94	558	472	229	229	221	109	58	15	30	9.6
9	106	99	1050	400	262	237	192	137	71	15	27	9.1
10	90	81	560	293	641	242	198	231	62	14	25	8.5
11	76	70	317	246	690	226	377	194	52	17	27	8.1
12	74	66	330	212	427	212	344	135	46	29	26	7.9
13	71	64	738	182	322	203	234	152	43	44	23	9.9
14	68	64	546	164	279	195	207	177	41	73	21	28
15	71	73	303	155	256	188	301	137	41	66	21	75
16	95	169	253	148	1330	596	306	118	46	46	31	40
17	102	201	212	143	4220	7740	226	107	46	35	28	23
18	196	104	196	171	949	3170	192	108	44	31	22	17
19	113	85	329	219	2000	796	173	100	41	31	19	15
20	86	78	430	182	1540	564	166	93	37	33	18	14
21	74	73	300	1380	727	447	170	142	33	33	16	13
22	69	71	221	1350	597	384	194	154	32	47	15	13
23	83	206	190	541	607	344	185	115	39	68	17	12
24	84	235	187	441	467	317	159	102	40	179	21	11
25	80	130	171	2270	380	295	142	95	34	135	20	11
26	74	110	153	2200	333	276	159	89	30	70	16	10
27	69	101	149	802	306	267	153	84	28	51	16	9.6
28	65	98	146	546	289	252	207	96	26	40	15	9.2
29	62	107	138	443	---	266	314	101	25	34	13	9.1
30	59	97	139	426	---	315	291	85	23	30	14	9.0
31	58	---	201	350	---	288	---	76	---	28	19	---
TOTAL	6893	2914	8377	15825	18824	20251	6781	3962	1441	1295	888	464.0
MEAN	222	97.1	270	510	672	653	226	128	48.0	41.8	28.6	15.5
MAX	1990	235	1050	2270	4220	7740	377	231	81	179	94	75
MIN	58	57	75	143	229	188	142	76	23	14	13	7.9
CFSM	1.75	.77	2.13	4.02	5.29	5.14	1.78	1.01	.38	.33	.23	.12
IN.	2.02	.85	2.45	4.64	5.51	5.93	1.99	1.16	.42	.38	.26	.14

CAL YR 1989	TOTAL	63715.0	MEAN	175	MAX	1990	MIN	23	CFSM	1.38	IN	18.66
WTR YR 1990	TOTAL	87915.0	MEAN	241	MAX	7740	MIN	7.9	CFSM	1.90	IN	25.75

APALACHICOLA RIVER BASIN

02338720 CHATTAHOOCHEE RIVER NEAR LAGRANGE, GA.

LOCATION.--Lat 33°04'42", long 85°06'39", Troup County, Hydrologic Unit 03130002, at the City of LaGrange water intake, 1.2 mi upstream from Yellowjacket Creek, and 5.3 mi northwest of LaGrange.

DRAINAGE AREA.--3,010 mi², approximately.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Flow regulated by Lake Sidney Lanier (see "Lakes and Reservoirs in Apalachicola River Basin," station 02334400). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 03...	1400	76	75	8.0	7.8	22.0	27.5	10.6	124
NOV 08...	1340	75	74	7.1	7.0	17.0	18.0	9.6	102
DEC 05...	1430	84	84	7.1	6.9	9.0	17.5	11.0	97
JAN 16...	1400	54	53	6.9	6.7	10.5	25.0	10.0	91
FEB 07...	1145	59	58	6.7	6.9	13.5	16.0	8.8	86
MAR 07...	1320	47	45	7.0	6.7	16.0	24.0	9.9	101
APR 05...	1030	64	65	6.9	6.9	15.5	19.0	8.5	87
MAY 03...	1200	76	76	8.9	8.7	25.0	28.5	9.0	111
JUN 11...	1045	90	86	9.3	9.1	28.0	28.0	8.8	115
JUL 10...	1130	100	92	--	9.5	31.0	34.0	9.2	126
AUG 07...	0920	114	108	8.9	8.8	29.0	25.0	7.6	101
SEP 04...	0930	100	96	9.2	9.6	28.0	28.0	11.5	149

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CaCO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 03...	8.0	28	5.9	--	17	8
NOV 08...	3.0	14	2.5	<20	16	<1
DEC 05...	12	15	2.3	70	21	5
JAN 16...	31	21	1.8	20	15	19
FEB 07...	38	13	1.8	1700	11	24
MAR 07...	32	10	1.2	50	9	22
APR 05...	22	19	1.0	230	14	17
MAY 03...	3.0	5	1.4	<20	15	7
JUN 11...	3.0	21	2.6	<20	18	15
JUL 10...	3.0	--	3.1	<20	21	5
AUG 07...	3.0	--	3.2	20	22	9
SEP 04...	5.0	--	4.2	<20	20	4

APALACHICOLA RIVER BASIN

02338720 CHATTAHOOCHEE RIVER NEAR LAGRANGE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO ₂ + NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 03...	0.410	<0.030	--	0.90	1.3	0.070	--
NOV 08...	0.530	0.040	0.26	0.30	0.83	0.120	3.7
DEC 05...	1.02	<0.030	--	0.16	1.2	0.150	9.3
JAN 16...	0.250	0.200	0.26	0.46	0.71	0.100	7.2
FEB 07...	0.480	0.120	0.17	0.29	0.77	0.080	2.4
MAR 07...	0.310	0.120	0.0	0.02	0.33	0.190	3.0
APR 05...	0.640	0.090	0.09	0.18	0.82	0.100	3.3
MAY 03...	0.500	0.040	0.21	0.25	0.75	0.070	3.0
JUN 11...	0.390	<0.030	--	0.40	0.79	0.070	3.8
JUL 10...	0.140	<0.030	--	--	--	0.080	3.7
AUG 07...	0.430	0.070	--	--	--	0.050	5.6
SEP 04...	0.330	0.040	--	--	--	0.100	6.9

APALACHICOLA RIVER BASIN

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.

LOCATION.--Lat 32°53'10", long 85°10'56", Troup County, Hydrologic Unit 03130002, on right bank just downstream from Oseligee Creek at West Point, 1 mi upstream from bridge on U.S. Highway 29, 2.5 mi downstream from West Point Dam and at mile 198.9.
DRAINAGE AREA.--3,550 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1896 to current year. Gage-height records collected at site 0.8 mi downstream since 1899 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 682: 1920, drainage area. WSP 972: 1931-32. WSP 1504: 1912, 1916-17.

GAGE.--Water-stage recorder. Datum of gage is 551.67 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 20, 1912, nonrecording gage at site 0.8 mi downstream at datum 2.83 ft lower. Oct. 20, 1912, to Jan. 25, 1925, nonrecording gage at site 500 ft upstream at present datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Sidney Lanier since January 1956 and by West Point Lake since October 1974. (See "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400 and 02339400.)

AVERAGE DISCHARGE.--94 years, 5,575 ft³/s, 21.33 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 134,000 ft³/s, Dec. 10, 1919, gage height, 30.0 ft at site then in use; 29.25 ft at present site, from floodmarks, from rating curve extended above 80,000 ft³/s on basis of computation of peak flow over Langdale Dam; minimum discharge, 224 ft³/s Sept. 12, 1925, gage height, 1.64 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1827, that of Dec. 10, 1919. Flood in 1886 reached a stage of 25.6 ft at former site and datum, from floodmark, by National Weather Service, discharge, 92,800 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 55,800 ft³/s, Mar. 19, gage height, 18.30 ft; minimum daily discharge, 605 ft³/s, Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	13500	4590	11800	1060	17100	18200	17300	6020	5430	656	5370	673		
2	35600	4600	869	11500	973	17900	17500	6030	3310	4590	671	661		
3	39600	4610	759	15300	838	1070	11900	5930	3000	10700	5400	4010		
4	26700	752	12400	15000	3370	7570	12700	5970	5920	9300	706	4000		
5	12200	732	13500	14800	17200	12400	11800	799	5900	9320	686	3980		
6	8630	7220	13900	2600	17300	13400	11800	808	5960	9220	5990	6510		
7	745	7370	14600	1570	17500	13600	6240	7690	6010	724	6020	4020		
8	4620	7460	15900	7650	17800	13300	6200	7710	6010	630	6020	625		
9	5930	7470	7250	10900	17200	12600	10300	5970	786	7850	4090	624		
10	5940	7430	5280	13900	3840	939	10400	7450	679	8390	6260	3960		
11	5920	838	12000	14300	18100	802	9100	7830	5930	8130	675	5310		
12	5950	743	14600	14500	17700	12700	8960	811	5960	8160	672	4010		
13	9980	7920	14600	7950	17600	13000	8960	819	5990	1480	5980	3980		
14	5340	7560	14000	831	17700	13200	836	7280	693	711	5980	3980		
15	5340	8050	14200	9700	17700	13100	973	7280	670	713	6010	623		
16	6680	8090	10100	9830	19000	14500	6190	5280	676	6730	5990	624		
17	6770	8100	8380	9980	29000	44900	6100	4270	686	2130	7890	3230		
18	6790	857	11600	10100	31200	54300	6100	10500	6410	5320	677	3240		
19	6750	757	11900	10300	32300	54600	6100	785	5290	5410	631	3240		
20	6720	8780	12100	850	34800	50700	6060	760	6680	5430	5980	4600		
21	742	8750	11600	6450	36800	36100	836	5960	7390	673	5990	4570		
22	716	8880	11300	12800	34400	26400	843	5950	6730	671	6020	614		
23	5930	9000	827	17300	22200	20200	7800	1140	700	4050	6050	611		
24	5980	8970	773	16900	17900	20900	7850	7890	675	4030	5340	7890		
25	6000	807	9380	6110	17800	17000	9820	7920	6580	3990	688	7970		
26	5940	774	9910	19800	18100	17000	3450	5600	6680	4010	668	8010		
27	5940	11500	10100	16900	18000	17000	3530	735	6650	4020	6740	8050		
28	700	11600	8280	16400	18000	17100	964	5930	6620	667	6840	8160		
29	679	11700	776	13800	---	17100	974	5950	717	663	6870	611		
30	7560	11800	788	17700	---	17100	6030	5960	609	5390	6920	605		
31	4720	---	955	17900	---	17100	---	5950	---	3310	2520	---		
TOTAL	264612	187710	284427	344681	531421	605781	217616	158977	125341	137068	136344	108991		
MEAN	8536	6257	9175	11120	18980	19540	7254	5128	4178	4422	4398	3633		
MAX	39600	11800	15900	19800	36800	54600	17500	10500	7390	10700	7890	8160		
MIN	679	732	759	831	838	802	836	735	609	630	631	605		
CAL YR 1989	TOTAL	1918365	MEAN	5256	MAX	39600	MIN	679	MEAN†	5969	CFSM†	1.68	IN†	22.82
WTR YR 1990	TOTAL	3102969	MEAN	8501	MAX	54600	MIN	605	MEAN†	8005	CFSM†	2.25	IN†	30.61

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER AND WEST POINT LAKE.

APALACHICOLA RIVER BASIN

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.39	3.88	6.98	2.45	9.17	9.53	9.24	4.53	4.30	1.97	4.14	1.90
2	14.43	3.88	2.21	6.80	2.33	9.40	9.31	4.53	3.31	3.81	1.96	1.88
3	15.25	3.88	2.13	8.34	2.23	2.42	7.04	4.49	3.16	6.52	4.19	3.48
4	12.12	2.11	7.16	8.25	3.34	5.27	7.40	4.51	4.44	5.89	2.02	3.48
5	7.23	2.09	7.67	8.11	9.20	7.22	7.00	2.19	4.43	5.89	1.98	3.47
6	5.63	5.08	7.82	3.22	9.26	7.66	6.99	2.20	4.45	5.86	4.43	4.57
7	2.10	5.18	8.05	2.75	9.32	7.74	4.71	5.25	4.47	2.01	4.43	3.48
8	3.87	5.22	8.53	5.35	9.40	7.62	4.69	5.26	4.48	1.92	4.43	1.81
9	4.53	5.23	5.25	6.64	9.18	7.37	6.42	4.49	2.10	5.17	3.58	1.81
10	4.55	5.21	4.35	7.89	3.67	2.29	6.45	5.19	2.01	5.55	4.54	3.44
11	4.54	2.18	7.01	8.02	9.51	2.19	5.93	5.34	4.39	5.37	1.95	4.05
12	4.55	2.10	8.12	8.10	9.37	7.35	5.88	2.19	4.45	5.40	1.94	3.46
13	6.22	5.40	8.08	5.48	9.34	7.53	5.87	2.21	4.45	2.49	4.43	3.45
14	4.20	5.28	7.90	2.22	9.36	7.58	2.23	5.09	2.03	2.06	4.41	3.45
15	4.19	5.48	7.94	6.13	9.36	7.54	2.37	5.09	2.00	2.06	4.42	1.81
16	4.76	5.50	6.35	6.19	9.79	8.01	4.71	4.21	2.01	4.77	4.41	1.81
17	4.81	5.51	5.59	6.24	12.90	16.14	4.66	3.86	2.02	2.81	5.23	3.12
18	4.85	2.20	6.81	6.30	13.49	18.03	4.66	6.53	4.63	4.12	1.93	3.12
19	4.82	2.12	6.93	6.36	13.73	18.08	4.65	2.16	4.15	4.18	1.84	3.12
20	4.90	5.78	7.02	2.24	14.29	17.39	4.64	2.13	4.77	4.21	4.36	3.73
21	2.10	5.78	6.84	4.72	14.71	14.53	2.23	4.48	5.06	2.00	4.40	3.71
22	2.06	5.83	6.70	7.45	14.12	12.13	2.24	4.51	4.77	1.99	4.41	1.79
23	4.54	5.89	2.21	9.23	10.84	10.20	5.30	2.38	2.03	3.59	4.42	1.78
24	4.57	5.88	2.15	9.08	9.45	10.41	5.40	5.32	2.00	3.57	4.12	5.20
25	4.57	2.19	5.99	4.75	9.42	9.16	6.17	5.34	4.67	3.56	1.93	5.23
26	4.54	2.15	6.23	10.06	9.50	9.15	3.42	4.33	4.75	3.56	1.89	5.25
27	4.53	6.84	6.27	9.11	9.48	9.14	3.45	2.09	4.72	3.56	4.71	5.26
28	2.04	6.93	5.55	8.93	9.47	9.16	2.36	4.48	4.71	1.97	4.76	5.30
29	2.01	6.94	2.15	7.86	---	9.17	2.37	4.51	1.99	1.96	4.77	1.78
30	5.21	6.97	2.17	9.37	---	9.19	4.56	4.51	1.87	4.16	4.79	1.77
31	4.01	---	2.34	9.44	---	9.19	---	4.50	---	3.24	2.85	---
MEAN	5.33	4.62	5.82	6.68	9.47	9.28	5.08	4.13	3.62	3.72	3.67	3.25
MAX	15.25	6.97	8.53	10.06	14.71	18.08	9.31	6.53	5.06	6.52	5.23	5.30
MIN	2.01	2.09	2.13	2.22	2.23	2.19	2.23	2.09	1.87	1.92	1.84	1.77
CAL YR 1989	MEAN		4.27	MAX	15.25	MIN	2.01					
WTR YR 1990	MEAN		5.37	MAX	18.08	MIN	1.77					

APALACHICOLA RIVER BASIN

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory analyses are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
03...	1510	37900	85	82	7.2	7.0	22.0	28.0	8.7	102
NOV										
08...	1450	967	72	67	6.8	6.7	16.0	19.0	7.6	79
DEC										
05...	1550	17700	75	77	7.4	6.9	12.0	17.5	8.9	84
JAN										
16...	1500	15800	70	71	6.7	6.6	9.5	25.0	9.3	82
FEB										
07...	1345	17600	54	54	6.7	6.8	11.0	20.5	9.0	83
MAR										
07...	1430	18000	52	53	6.8	6.7	13.0	24.0	9.5	90
APR										
05...	1230	17300	50	51	7.0	6.8	15.0	21.0	8.2	83
MAY										
03...	1300	10200	58	59	7.0	7.0	21.0	31.0	8.9	102
JUN										
11...	0830	651	79	74	7.2	7.1	24.0	23.0	5.4	65
JUL										
10...	1300	14100	89	86	--	6.8	27.0	36.0	3.0	38
AUG										
07...	1045	679	95	86	--	7.2	27.0	29.0	5.2	67
SEP										
04...	1045	656	100	90	7.0	7.0	28.0	31.0	4.4	57

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
OCT										
03...	8.0	1.8	--	15	0.630	0.040	0.090	--	30	10
NOV										
08...	5.0	1.3	80	16	0.390	0.100	0.100	3.2	620	90
DEC										
05...	6.0	2.0	20	19	0.630	0.040	0.070	3.9	--	--
JAN										
16...	22	1.7	<20	14	0.560	0.290	0.090	6.7	850	180
FEB										
07...	41	1.2	50	12	0.430	0.150	0.080	2.6	2200	1200
MAR										
07...	27	0.8	40	12	0.410	0.130	0.170	2.7	1600	100
APR										
05...	17	0.9	20	12	0.370	0.050	0.070	3.8	--	--
MAY										
03...	9.0	0.7	50	13	0.420	0.060	0.060	3.4	--	--
JUN										
11...	6.0	0.7	4	21	0.270	0.060	0.040	3.4	620	30
JUL										
10...	5.0	1.1	<20	23	0.230	0.290	0.060	2.4	590	460
AUG										
07...	3.0	1.3	20	22	0.140	0.090	<0.020	2.6	500	110
SEP										
04...	2.0	0.9	40	21	0.230	0.130	0.050	4.4	--	--

APALACHICOLA RIVER BASIN

02339720 LONG CANE CREEK NEAR WEST POINT, GA.

LOCATION.--Lat 32°54'37", long 85°08'43", Troup County, Hydrologic Unit 03130002, at bridge on Webb Road 2.5 mi northeast of West Point.
DRAINAGE AREA.--74.8 mi², approximately.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 03...	1440	530	75	70	6.7	6.4	21.0	27.5	6.2	71
NOV 08...	1420	68	325	325	7.1	7.0	18.0	18.5	5.7	62
DEC 05...	1520	58	307	322	7.4	7.0	8.5	17.5	8.7	76
JAN 16...	1440	110	170	176	7.0	6.7	10.0	25.0	7.4	66
FEB 07...	1300	116	158	160	6.9	6.9	14.0	19.0	7.1	70
MAR 07...	1400	120	159	160	7.0	6.7	16.0	24.5	7.5	76
APR 05...	1145	113	158	156	6.9	7.0	15.0	20.5	7.4	75
MAY 03...	1240	90	207	212	7.1	7.0	24.0	29.5	5.3	64
JUN 11...	0915	25	370	377	7.4	7.3	24.0	27.0	5.0	61
JUL 10...	1230	--	370	408	--	7.5	27.0	37.0	5.3	68
12...	0830	11	550	581	7.3	7.5	25.0	27.0	4.3	53
AUG 07...	1015	21	395	346	7.5	7.5	25.0	29.0	4.9	61
SEP 04...	1015	7.0	437	432	7.3	7.4	25.0	33.0	4.6	56

APALACHICOLA RIVER BASIN

02339720 LONG CANE CREEK NEAR WEST POINT, GA.--Continued

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 03...	34	1.4	--	15	0.210	<0.030	0.180	--
NOV 08...	8.0	1.5	2300	66	1.39	0.060	1.10	9.9
DEC 05...	13	2.1	330	62	0.890	0.060	0.730	11
JAN 16...	16	5.5	92000	34	0.390	0.620	0.360	15
FEB 07...	13	1.7	790	35	0.490	0.440	0.290	4.4
MAR 07...	9.0	2.3	790	33	0.540	0.230	0.520	5.3
APR 05...	17	2.1	220	34	0.680	0.130	0.480	5.9
MAY 03...	22	1.5	330	43	1.08	0.100	0.580	5.8
JUN 11...	19	1.2	700	66	1.97	0.080	0.780	9.1
JUL 10...	7.0	0.9	1400	106	2.87	0.060	1.13	7.7
12...	12	1.2	490	122	2.26	0.060	1.67	8.5
AUG 07...	11	1.2	490	73	2.80	<0.030	0.860	9.6
SEP 04...	8.0	3.8	300	101	2.80	2.17	1.70	16

APALACHICOLA RIVER BASIN

02339780 CHATTAHOOCHEE RIVER AT LANGDALE, ALA.

LOCATION.--Lat 32°48'50", long 85°10'03", Chambers County, Ala.-Harris County, Ga., Hydrologic Unit 03130002, at right end of Langdale Dam, 0.3 mi upstream from Moores Creek, 2.8 mi downstream from Long Cane Creek, and 0.4 mi south of Langdale.

DRAINAGE AREA.--3,630 mi².

PERIOD OF RECORD.--October 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 540.01 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Flow regulated by Lake Sidney Lanier since January 1956 and by West Point Lake since October 1974. (See "Lakes and Reservoirs in Apalachicola Basin," stations 02334400 and 02339400.)

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.20 ft, Mar. 18, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, 12.20 ft, Mar. 18.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.57	---	9.63	8.11	10.34	10.38	10.28	8.68	8.49	7.81	8.34	6.60
2	11.44	---	7.64	9.40	7.77	10.39	10.30	8.62	8.17	8.62	6.93	6.33
3	11.54	---	6.97	10.08	7.35	8.14	9.63	8.59	7.98	9.49	8.16	7.33
4	10.94	---	9.05	10.06	7.74	8.93	9.89	8.56	8.31	9.19	7.12	8.47
5	9.87	---	9.87	9.99	10.30	9.66	9.61	7.37	8.65	9.19	6.62	7.99
6	9.02	---	9.89	8.64	10.33	9.86	9.62	6.86	8.58	9.18	8.37	8.56
7	7.58	---	9.97	8.40	10.34	9.88	8.94	8.11	8.59	7.17	8.51	8.48
8	8.32	9.09	10.15	9.16	10.36	9.86	8.93	8.94	8.60	6.56	8.60	6.66
9	8.89	9.10	9.41	9.50	10.34	9.82	9.43	8.52	7.52	8.41	8.13	5.54
10	8.89	9.10	8.99	9.96	8.47	7.69	9.45	9.02	7.12	9.11	8.67	7.57
11	8.90	7.50	9.61	9.99	10.37	7.34	9.29	9.11	8.00	8.93	7.14	8.33
12	8.98	7.14	10.01	9.99	10.34	9.15	9.32	7.52	8.52	8.98	6.82	8.03
13	9.36	8.98	10.00	9.35	10.34	9.82	9.30	6.90	8.52	8.05	8.33	8.20
14	8.50	9.17	9.96	7.73	10.35	9.80	7.64	8.31	7.86	7.52	8.48	8.44
15	8.41	9.23	9.95	8.79	10.36	9.80	7.04	8.90	7.94	7.45	8.50	7.90
16	8.64	9.25	9.52	9.39	10.43	9.92	8.77	8.49	7.82	8.24	8.54	7.68
17	8.75	9.23	9.22	9.40	11.12	11.61	8.92	8.45	7.86	8.28	8.73	8.20
18	8.85	7.30	9.57	9.42	11.26	12.03	8.91	9.53	8.77	8.12	7.16	7.91
19	---	6.85	9.68	9.45	11.28	11.99	8.90	7.46	8.75	8.52	6.39	8.63
20	---	9.12	9.65	7.63	11.40	11.90	8.90	6.83	8.97	8.55	7.85	8.81
21	---	9.29	9.60	8.21	11.47	11.43	8.15	8.16	9.06	7.26	8.58	8.78
22	---	9.30	9.53	9.83	11.38	10.95	7.64	8.67	8.96	7.17	8.76	7.68
23	---	9.33	7.56	10.32	10.71	10.49	8.18	7.93	8.01	8.15	8.54	7.05
24	---	9.34	6.22	10.32	10.36	10.55	9.12	8.54	7.85	8.23	8.45	8.71
25	---	7.38	9.17	9.13	10.36	10.27	9.32	8.95	8.73	8.20	7.45	9.26
26	---	7.03	9.49	10.63	10.38	10.26	8.02	8.50	8.95	8.29	6.71	9.26
27	---	9.45	9.48	10.34	10.38	10.26	8.12	7.66	8.92	8.26	8.19	9.22
28	---	9.62	9.36	10.26	10.37	10.26	8.21	7.81	8.94	7.37	8.68	8.95
29	---	9.63	7.34	9.94	---	10.26	8.05	8.56	8.02	7.15	8.69	7.84
30	---	9.63	7.09	10.35	---	10.27	8.66	8.59	7.67	8.32	8.69	7.02
31	---	---	8.03	10.37	---	10.27	---	8.53	---	7.99	8.08	---
MEAN	---	---	9.08	9.49	10.21	10.10	8.88	8.28	8.34	8.19	8.01	7.98
MAX	---	---	10.15	10.63	11.47	12.03	10.30	9.53	9.06	9.49	8.76	9.26
MIN	---	---	6.22	7.63	7.35	7.34	7.04	6.83	7.12	6.56	6.39	5.54

APALACHICOLA RIVER BASIN

02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA.

LOCATION.--Lat 32°27'45", long 84°59'52", Muscogee County, Ga.-Russell County, Ala., Hydrologic Unit 03130003, on left bank at downstream side of Central of Georgia railway bridge at Columbus, 0.5 mi downstream from Eagle and Phenix Dam, 1.2 mi downstream from City Mills Dam, 2.6 mi downstream from North Highlands Dam, 3.3 mi downstream from Oliver Dam, 17.5 mi downstream from Bartletts Ferry Dam, and at mile 159.9.

DRAINAGE AREA.--4,670 mi², approximately.

PERIOD OF RECORD.--August 1929 to current year. Records for December 1912, published in WSP 322, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1082: 1943(M). See also period of record.

GAGE.--Water-stage recorder. Datum of gage is 183.14 ft above National Geodetic Vertical Datum of 1929. Dec. 1-31, 1912, nonrecording gage at site 800 ft upstream at datum 2.0 ft higher, and Aug. 23, 1929, to Sept. 30, 1975, recording gage at present site, at datum 2.0 ft higher. Oct. 1, 1963, to Sept. 30, 1966, water-stage recorder at Walter F. George Reservoir, and since Oct. 1, 1966, water-stage recorder at Alabama State Docks used as auxiliary gage for this station.

REMARKS.--Estimated daily discharges: Dec. 23 to Feb. 14. Records fair except those less than 2,500 ft³/s and those for the period of estimated daily discharges, which are poor. Flow regulated by Lake Sidney Lanier since January 1956, West Point Lake since October 1974, and by Lake Harding since 1939. (See "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400, 02339400, and 02341000.) Records of chemical analyses for the period February 1968 to May 1972 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--61 years, 6,742 ft³/s, 19.61 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145,000 ft³/s, Feb. 26, 1961; maximum gage height, 47.8 ft, Feb. 25, 1961 datum then in use; minimum discharge, 294 ft³/s, Oct. 23, Nov. 14, 1931; minimum daily, 480 ft³/s, Oct. 31, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1827, 198,000 ft³/s, Mar. 15, 1929, computation of flow at North Highlands Dam before redevelopment; maximum stage known, 53.2 ft, Mar. 16, 1929, datum in use prior to 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 98,800 ft³/s, March 17; maximum gage height, 41.14 ft, March 18; minimum daily discharge, 1,340 ft³/s, June 30.

REVISIONS.--The maximum discharge and gage height for some water years have been revised, as shown in the following table. They supercede figures published in WSP 1674 and reports for 1967, 1969, 1971, and 1972.

Water year	Date	Discharge (ft ³ /s)	Gage Height (ft)
1967	Nov. 12, 1966	37,100	19.60
1969	Apr. 19, 1969	66,800	27.69
1971	Mar. 3, 1971	110,000	38.50
1972	Jan. 12, 1972	70,800	28.70

APALACHICOLA RIVER BASIN

02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	13500	6300	13700	18500	21000	16500	19100	7820	6980	1360	5030	2080		
2	39600	7150	7960	18000	11000	23100	22100	7890	3760	4070	1440	2020		
3	48100	6500	6610	17500	4100	12200	18700	8400	5220	8410	5050	2000		
4	36000	3310	10300	17000	4000	7560	15500	7000	5630	7870	2020	2800		
5	22500	2950	13000	16000	15000	13500	13700	2070	7500	9410	2360	4080		
6	9740	9200	14900	14000	21000	14000	14400	2280	7230	9620	4920	5910		
7	3020	9880	14800	8600	20000	14000	7310	8400	7070	2040	4650	5310		
8	4710	11400	26100	9000	21000	13900	9020	7890	6390	1450	6210	2230		
9	7180	10900	28700	14000	22000	13800	11400	8640	3950	7640	4400	2180		
10	6980	9230	13200	18000	17000	6210	13700	7870	6090	8050	4540	2780		
11	7190	3600	11700	19000	17000	3160	14300	10100	5330	7820	2210	3290		
12	6940	1890	15300	19000	25000	10200	10900	5090	6890	8260	2230	3360		
13	9010	7920	18200	16000	23000	14900	9370	2070	6590	4310	4570	4230		
14	9180	9790	22500	6200	22000	15000	1860	6710	3810	1510	5410	2420		
15	7760	7830	18400	8600	21400	15200	2080	7670	2310	1500	5930	2670		
16	8850	10300	14900	11000	26300	31200	7600	5840	1950	5030	6030	2020		
17	6570	10300	10900	13000	36100	88900	9030	7010	1990	3010	6650	2130		
18	8220	2950	12300	12000	41100	85200	7720	9190	2010	5240	3240	2020		
19	8030	2470	14800	13000	46300	64300	6750	4280	3610	6910	2100	2260		
20	7860	8610	17800	4600	46100	57100	6500	4000	5320	5840	3720	3480		
21	1920	9590	17600	9400	46200	49300	2690	5510	6610	1490	5170	4280		
22	1860	10300	15000	14000	47100	35100	2190	5390	7640	1410	7340	2900		
23	5120	12100	7630	22000	35500	27500	8200	7010	1880	4390	6800	2200		
24	6160	9250	6000	21000	25100	25200	10000	9690	1600	4710	4290	4530		
25	6590	5100	18000	21000	22900	24900	11300	8260	6150	4020	2100	6570		
26	6440	3260	19000	28000	16000	22000	6790	6470	7100	4230	2100	7500		
27	6470	9640	17500	26000	14500	22400	3810	4920	7020	3330	5230	7740		
28	3330	10900	18500	22000	15000	20600	4280	4890	6740	1480	5950	8160		
29	1810	13900	7000	21000	---	21600	4340	5690	2630	1460	6410	2970		
30	8020	14200	4000	21000	---	21200	6090	6590	1340	4050	6740	2380		
31	6340	---	15000	23000	---	20500	---	7520	---	3840	2890	---		
TOTAL	325000	240720	451300	501400	682700	810230	280730	202160	148340	143760	137730	108500		
MEAN	10480	8024	14560	16170	24380	26140	9358	6521	4945	4637	4443	3617		
MAX	48100	14200	28700	28000	47100	88900	22100	10100	7640	9620	7340	8160		
MIN	1810	1890	4000	4600	4000	3160	1860	2070	1340	1360	1440	2000		
CAL YR 1989	TOTAL	2700740	MEAN	7399	MAX	48100	MIN	1250	MEAN†	8036	CFSM†	1.72	IN†	23.37
WTR YR 1990	TOTAL	4032570	MEAN	11050	MAX	88900	MIN	1340	MEAN†	10550	CFSM†	2.26	IN†	30.68

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER, WEST POINT LAKE, AND LAKE HARDING.

APALACHICOLA RIVER BASIN

02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.39	7.18	10.48	--	13.07	11.22	12.85	7.83	7.90	2.41	5.51	3.72
2	19.57	7.45	8.24	--	8.51	13.83	13.90	7.86	6.70	4.04	3.68	3.79
3	22.31	7.05	7.62	--	4.97	10.08	12.78	7.87	7.18	6.57	5.34	3.81
4	19.12	5.50	9.15	13.28	4.73	7.62	11.25	7.60	7.39	6.44	4.04	4.03
5	14.26	5.51	10.17	12.71	10.23	10.28	10.56	5.71	7.92	7.39	4.21	4.66
6	8.96	8.04	10.95	12.44	12.98	10.93	10.73	5.87	7.83	7.56	5.53	5.49
7	6.48	8.44	10.94	10.27	12.64	10.90	7.99	8.25	7.71	3.21	5.37	5.28
8	7.09	9.42	15.17	10.26	13.02	10.83	8.17	8.00	7.45	2.72	5.97	3.55
9	8.05	9.80	17.11	11.56	13.23	10.83	9.39	8.65	6.72	6.13	5.39	3.47
10	8.06	8.87	11.14	11.92	11.94	7.49	10.37	8.34	7.42	6.64	5.25	3.95
11	8.12	6.69	10.10	12.87	11.44	5.67	10.80	9.26	7.31	6.53	4.14	4.14
12	8.13	5.68	11.33	12.62	14.50	8.32	9.36	7.68	7.64	6.88	4.26	4.08
13	8.83	7.65	12.35	11.30	13.79	10.62	8.78	6.96	7.46	5.02	5.48	4.51
14	9.16	8.58	13.92	7.40	13.39	10.68	5.43	8.32	6.27	3.32	5.84	3.39
15	8.75	7.89	12.56	8.32	13.22	10.78	5.46	8.50	5.28	3.37	6.04	3.52
16	9.00	8.98	11.15	9.06	15.06	16.52	7.39	8.01	4.83	4.98	6.02	3.17
17	8.34	9.03	9.67	9.80	18.83	36.81	8.21	8.20	4.96	4.22	6.23	3.27
18	8.74	6.47	10.18	9.39	20.33	39.78	7.54	8.85	5.01	5.13	4.79	3.13
19	8.60	6.30	11.40	9.62	22.08	33.15	7.06	7.40	5.36	6.26	4.15	3.25
20	8.66	8.50	12.74	5.79	22.07	28.35	7.10	7.47	5.79	6.12	5.01	3.88
21	6.66	8.72	12.53	8.15	21.94	25.29	5.77	8.19	6.37	3.64	5.48	4.27
22	6.55	8.91	11.48	10.36	22.07	20.25	5.62	8.16	6.76	3.68	6.56	3.50
23	7.44	9.70	8.82	13.70	19.03	16.88	7.68	8.45	3.95	5.26	6.50	3.04
24	7.66	8.61	--	13.19	15.25	15.61	8.56	9.14	3.66	5.44	5.27	4.39
25	7.71	6.84	--	13.41	14.16	15.29	9.06	8.60	5.95	5.01	3.93	5.63
26	7.53	6.21	--	15.73	11.56	14.20	7.18	7.99	6.39	5.20	4.08	6.19
27	7.38	8.70	--	15.38	10.65	14.25	5.80	7.45	6.30	4.75	5.70	6.37
28	6.17	9.16	--	13.58	10.70	13.52	6.05	7.63	6.03	3.72	5.88	6.65
29	5.77	10.47	--	12.98	--	13.79	6.34	7.67	3.71	3.80	6.20	3.82
30	7.99	10.63	--	13.34	--	13.75	7.20	7.90	2.33	5.12	6.34	3.28
31	7.61	--	--	13.79	--	13.32	--	8.16	--	4.90	4.41	--
MEAN	9.29	8.03	--	--	14.12	15.51	8.48	7.93	6.19	5.01	5.25	4.17
MAX	22.31	10.63	--	--	22.08	39.78	13.90	9.26	7.92	7.56	6.56	6.65
MIN	5.77	5.50	--	--	4.73	5.67	5.43	5.71	2.33	2.41	3.68	3.04

APALACHICOLA RIVER BASIN

02341800 UPATOI CREEK NEAR COLUMBUS, GA.

LOCATION.--Lat 32°24'48", long 84°49'12", Muscogee-Chattahoochee County line, Hydrologic Unit 03130003, at downstream side of pier near left end of bridge on Red Arrow Road at Fort Benning, 2 mi downstream from Randall Creek, 2 mi upstream from Ochillee Creek, 8 mi southeast of Columbus, and 12 mi upstream from mouth.

DRAINAGE AREA.--342 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 230 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: Mar. 18-30. Records good, except for the period of estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--22 years, 457 ft³/s, 18.15 in./yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,300 ft³/s, Mar. 17, 1990, gage height, 32.12 ft from floodmark and based on rating curve extended above 36,000 ft³/s, and flow-over-road measurement of peak flow; minimum, 72 ft³/s, July 16, Aug. 7, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 3,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 31	1945	*3,620	*10.13	Feb. 19	1345	3,580	10.08
Feb. 16	2300	3,870	10.44	Mar. 17	1200	*46,300	*32.12

Minimum discharge, 104 ft³/s, Sept. 18-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	739	135	247	2710	552	571	883	326	212	138	146	151
2	1030	135	241	1490	529	575	982	304	218	135	185	141
3	645	141	234	915	517	1060	852	286	221	134	186	132
4	344	142	224	733	700	880	718	269	219	132	160	122
5	244	139	221	891	747	677	651	284	212	132	145	117
6	202	139	221	1840	582	584	612	276	197	131	139	114
7	187	148	253	1870	549	532	695	271	188	130	133	113
8	176	588	1610	2480	522	499	616	258	191	132	131	112
9	164	1420	2070	1570	501	483	548	342	236	156	138	112
10	154	895	1270	1100	1300	481	524	582	264	161	163	111
11	151	468	743	864	1770	470	881	457	228	155	145	113
12	148	340	705	745	995	447	746	343	198	187	133	117
13	146	298	1260	658	724	431	569	329	180	228	128	115
14	149	274	818	608	615	420	494	334	172	261	124	112
15	156	302	622	571	567	413	468	300	169	237	124	113
16	154	393	553	545	1390	2980	452	271	197	191	121	112
17	159	380	485	525	2550	31600	432	262	209	169	123	108
18	197	322	611	510	1450	22000	410	273	186	183	123	106
19	244	282	1150	504	2590	13000	389	261	175	337	121	106
20	215	264	1370	489	2050	8500	381	249	165	647	118	106
21	181	254	890	1300	1310	6000	379	529	157	356	117	107
22	164	253	662	1180	1090	4500	375	817	155	226	121	109
23	160	407	551	799	1080	3500	363	501	163	190	131	116
24	157	433	486	660	855	2800	353	333	164	266	127	111
25	152	350	476	1000	731	2300	340	281	156	219	127	108
26	146	308	462	1390	659	1900	324	254	148	179	162	107
27	141	289	447	892	615	1700	308	236	146	161	139	108
28	140	277	429	716	590	1500	342	275	148	149	130	107
29	134	290	412	656	---	1300	428	272	145	143	125	107
30	133	265	405	669	---	1000	374	234	141	140	120	114
31	136	---	1710	611	---	930	---	215	---	135	160	---
TOTAL	7248	10331	21838	31491	28130	114033	15889	10224	5560	6140	4245	3427
MEAN	234	344	704	1016	1005	3678	530	330	185	198	137	114
MAX	1030	1420	2070	2710	2590	31600	982	817	264	647	186	151
MIN	133	135	221	489	501	413	308	215	141	130	117	106
CFSM	.68	1.01	2.06	2.97	2.94	10.8	1.55	.97	.54	.58	.40	.33
IN.	.79	1.12	2.38	3.43	3.06	12.40	1.73	1.11	.60	.67	.46	.37
CAL YR 1989	TOTAL	150803	MEAN	413	MAX	2910	MIN	90	CFSM	1.21	IN	16.40
WTR YR 1990	TOTAL	258556	MEAN	708	MAX	31600	MIN	106	CFSM	2.07	IN	28.12

APALACHICOLA RIVER BASIN

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.
(National Stream-Quality Accounting Network station)

LOCATION.--Lat 31°15'33", long 85°06'37", Early County, Ga.-Houston County, Ala., Hydrologic Unit 03130004, at left end of George W. Andrews Lock and Dam, 1.3 mi downstream from Omusee Creek, 2.3 mi south of Columbia, Ala., and at mile 46.5.

DRAINAGE AREA.--8,210 mi², approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Gate-opening and water-stage recorders. Datum of headwater gage and tailwater gages is National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Mar. 17-21. Records good, except those for the period of no record, Mar. 17-21, which are fair. Flow regulated by Lake Sidney Lanier, West Point Lake, Lake Harding, Walter F. George Lake, and George W. Andrews Reservoir. (See "Lakes and Reservoir in Apalachicola River Basin," stations 02334400, 02339400, 02341000, and 02343240. No adjustments made for George W. Andrews Reservoir's annual change in contents, which is insignificant).

AVERAGE DISCHARGE.--15 years, 10,760 ft³/s, 17.79 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 195,000 ft³/s, Mar. 19, 1990, maximum headwater gage height, 123.29 ft, Mar. 19, 1990, maximum tailwater gage height, 123.24 ft, Mar. 19, 1990, from floodmarks; no flow, except for an undetermined amount of leakage due to non-typical operation pattern, Nov. 22, 1987.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 1929, thought to be the highest since 1827, based on station on Chattahoochee River at Columbia, Ala., 2.4 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 195,000 ft³/s, Mar. 19, maximum headwater gage height, 123.29 ft, Mar. 19, maximum tailwater gage height, 123.24 ft, Mar. 19, from floodmarks; minimum daily discharge, 537 ft³/s, Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	16800	10800	17100	21900	30300	23300	30200	10900	10800	1050	6000	1150		
2	36200	14200	7610	30800	30300	23300	24600	11100	4970	7060	6390	905		
3	32200	15800	6250	29800	17200	13000	25000	7990	4480	8600	4850	6610		
4	31000	2920	15000	30100	12700	11000	24000	7610	9150	9160	1230	7170		
5	22600	1080	15200	25000	19700	17900	24200	1820	8980	8630	805	7230		
6	12400	11100	15200	19400	19800	22900	20600	1290	8790	8920	4630	7440		
7	1430	14400	15500	33800	20000	22500	15200	8340	8850	1930	5680	7320		
8	1030	18800	19600	33800	19900	17700	12100	9820	8770	1020	5300	985		
9	8080	23200	38500	31500	20100	17600	16900	9950	6300	6740	5380	645		
10	6940	19300	34200	30600	19300	14900	17200	10600	2590	7870	5460	5920		
11	5820	13000	29100	30500	31100	12200	17600	9970	10300	8350	1160	6040		
12	6630	13000	29900	29600	30700	16800	17200	1860	9530	7610	619	6320		
13	6580	9180	31500	21300	30700	17100	17500	1980	10900	1700	6090	6490		
14	6150	8780	23800	17600	30600	17400	7290	11900	13500	870	7220	4850		
15	8230	8500	21500	19000	30800	17400	6880	11000	16300	5370	7260	1350		
16	9900	9330	15400	22000	31600	18800	12200	11000	2380	8310	7240	649		
17	10700	8980	12900	21900	33600	115000	13800	11000	1580	4330	8010	3670		
18	11100	6130	17000	21800	33700	180000	8200	11400	8660	6680	1480	4650		
19	11000	5920	17700	22200	33100	191000	8810	3800	10800	8070	906	4800		
20	10700	13200	19400	13000	39300	150000	8160	3180	16000	6560	6670	6520		
21	6040	14900	28900	7440	43100	105000	5220	10900	14500	1250	7900	6280		
22	4470	14800	29400	20700	47900	78700	6600	11300	11400	913	8230	1360		
23	11200	12600	22500	30400	48300	62000	13200	12400	2570	4630	8210	640		
24	10600	14100	12400	29800	38300	42800	11400	14000	1170	5260	8270	6870		
25	10800	12000	20100	30300	30700	33900	12500	12200	8770	4930	1430	8120		
26	10600	2300	21300	30600	29500	28600	11900	12000	9760	4970	1170	7910		
27	10500	10800	19500	30600	30200	29200	12100	1930	14100	4960	7070	7940		
28	1380	12200	20400	30500	29500	30900	2720	10000	14600	1160	8210	5870		
29	1050	12600	20000	22600	---	30400	1670	10600	14800	814	7980	735		
30	9230	12200	2810	30000	---	30800	9680	11000	2710	6140	7850	537		
31	10200	---	5010	30600	---	30800	---	10300	---	5710	7950	---		
TOTAL	341560	346120	604680	799140	832000	1422900	414630	273140	268010	159567	166650	136976		
MEAN	11020	11540	19510	25780	29710	45900	13820	8811	8934	5147	5376	4566		
MAX	36200	23200	38500	33800	48300	191000	30200	14000	16300	9160	8270	8120		
MIN	1030	1080	2810	7440	12700	11000	1670	1290	1170	814	619	537		
CAL YR 1989	TOTAL	3878163	MEAN	10630	MAX	38800	MIN	498	MEAN†	11480	CFSM†	1.40	IN†	18.99
WTR YR 1990	TOTAL	5765373	MEAN	15800	MAX	191000	MIN	537	MEAN†	15280	CFSM†	1.86	IN†	25.27

†ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER, WEST POINT LAKE, LAKE HARDING, AND WALTER F. GEORGE LAKE.

APALACHICOLA RIVER BASIN

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1982 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LITY WAT.DIS FET LAB CACO3 (MG/L)
NOV 22...	1130	16700	64	78	7.1	7.5	16.5	8.4	86	19	17	17
JAN 25...	0900	30100	58	62	7.2	7.2	11.5	9.8	90	15	13	14
MAR 30...	0915	31400	43	45	6.9	7.2	16.0	9.3	94	13	10	10
MAY 17...	0900	1190	58	60	7.3	7.3	23.0	6.9	80	19	16	17
JUL 11...	1600	9360	64	74	7.4	7.7	30.0	5.3	70	25	20	22
AUG 22...	1330	14000	85	84	7.3	7.3	30.0	4.3	57	28	23	24

DATE	TUR- BID- ITY (NTU)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARBCALCIUM DISSOLVED DIS- LAB SOLVED MG/L AS (MG/L CACO3 AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	
NOV 22...	3.5	32	38	20	3	5.7	1.3	6.1	37	0.6	2.0
JAN 25...	16	120	140	17	3	5.0	1.1	3.8	30	0.4	1.6
MAR 30...	40	34	K650	12	2	3.6	0.74	2.5	28	0.3	1.4
MAY 17...	8.5	K140	K3400	20	3	5.7	1.3	3.3	25	0.3	1.1
JUL 11...	2.2	90	140	22	0	6.4	1.4	4.9	31	0.5	1.6
AUG 22...	1.6	K10	K18	23	0	6.8	1.5	6.6	36	0.6	2.0

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
NOV 22...	9.0	4.4	0.10	8.8	39	49	1760	0.05
JAN 25...	7.0	3.7	0.10	9.2	44	41	3580	0.06
MAR 30...	4.5	2.5	<0.10	6.6	35	30	2970	0.05
MAY 17...	5.8	3.0	<0.10	4.6	37	35	119	0.05
JUL 11...	3.8	7.1	<0.10	5.9	46	44	1160	0.06
AUG 22...	7.9	6.0	<0.10	7.9	50	53	1890	0.07

APALACHICOLA RIVER BASIN

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

		NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2 + NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
DATE										
NOV 22...		<0.010	0.390	0.040	0.040	0.46	0.50	0.030	<0.010	0.010
JAN 25...		0.010	0.360	0.080	0.070	0.12	0.20	0.050	0.010	<0.010
MAR 30...		<0.010	0.300	0.070	0.050	0.33	0.40	0.130	0.010	<0.010
MAY 17...		<0.010	0.200	0.040	0.030	0.46	0.50	0.040	0.020	<0.010
JUL 11...		<0.010	0.100	0.030	0.020	0.57	0.60	0.020	<0.010	<0.010
AUG 22...		<0.010	<0.100	0.050	0.030	0.35	0.40	0.030	<0.010	<0.010
DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
NOV 22...	10	<1	16	<0.5	<1.0	<1	<3	1	33	<1
JAN 25...	120	<1	17	<0.5	<1.0	1	<3	<10	190	<10
MAY 17...	60	<1	17	<0.5	<1.0	<1	<3	2	160	<1
AUG 22...	<10	<1	14	<0.5	<1.0	<1	<3	1	22	<1
DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 22...	<4	3	0.3	<10	1	<1	<1.0	30	<6	4
JAN 25...	<4	5	0.4	<10	<10	<1	<1.0	26	<6	<3
MAY 17...	<4	2	<0.1	<10	4	<1	<1.0	27	<6	6
AUG 22...	<4	6	<0.1	<10	<1	<1	<1.0	33	<6	<3

APALACHICOLA RIVER BASIN

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 22...	1135	16700	16.5	7	316	91
JAN 25...	0905	30100	11.5	26	2110	62
MAR 30...	0920	31400	16.0	22	1870	91
MAY 17...	0905	1190	23.0	12	39	89
JUL 11...	1605	9360	30.0	7	177	82
AUG 22...	1335	14000	30.0	7	265	83

APALACHICOLA RIVER BASIN

02344040 CHATTAHOOCHEE RIVER NEAR STEAM MILL, GA.

LOCATION.--Lat 30°58'39", long 85°00'19", Seminole County, Ga.-Jackson County, Fla., Hydrologic Unit 03130004, at Herman E. Talmadge Bridge on State Highway 91, 2 mi northwest of Steam Mill, and at mile 23.7.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Flow is regulated by Lake Sidney Lanier, West Point Lake, Lake Harding, Walter F. George Reservoir, and by George W. Andrews Reservoir (see "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400, 02339400, 02341000, 02343240).

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	GAGE HEIGHT (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 18...	1215	48.96	97	96	7.2	6.9	23.0	21.0	7.8	92
NOV 15...	1405	49.91	105	--	7.1	7.0	18.0	27.0	9.2	99
DEC 20...	1350	49.76	84	83	7.1	7.2	9.0	7.5	12.3	107
JAN 17...	1320	50.59	72	74	7.3	7.0	10.0	23.5	11.7	104
FEB 21...	1335	52.01	61	58	6.9	6.8	14.5	15.5	10.8	106
MAR 27...	1405	57.02	47	45	7.1	6.9	16.5	18.0	9.0	93
APR 18...	1225	48.67	76	79	6.8	7.2	20.0	26.0	10.0	111
MAY 16...	1255	47.20	77	79	7.3	7.1	25.5	31.5	8.3	103
JUN 20...	1340	46.32	81	88	7.1	7.2	28.0	36.0	7.8	101
JUL 17...	1320	46.59	88	88	7.3	7.4	30.0	33.0	8.1	108
AUG 22...	1255	47.67	103	103	7.2	7.4	31.5	33.0	7.6	105
SEP 26...	1320	47.23	117	115	7.3	7.4	26.0	27.0	8.3	104

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)
OCT 18...	6.0	--	1.7	230	22	2
NOV 15...	10	--	1.4	40	32	17
DEC 20...	15	--	1.9	<20	18	10
JAN 17...	26	--	1.1	70	16	17
FEB 21...	34	--	1.5	200	11	25
MAR 27...	76	--	0.2	50	12	32
APR 18...	25	--	0.9	40	19	14
MAY 16...	15	--	0.9	50	20	10
JUN 20...	12	--	1.5	20	20	25
JUL 17...	6.0	10	2.9	20	24	3
AUG 22...	5.0	18	2.0	110	26	5
SEP 26...	7.0	23	1.4	80	30	13

APALACHICOLA RIVER BASIN

02344040 CHATTAHOOCHEE RIVER NEAR STEAM MILL, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO ₂ + NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	0.340	0.030	--	--	--	<0.020	--
NOV 15...	0.480	0.030	--	--	--	0.090	4.1
DEC 20...	0.520	0.050	--	--	--	0.030	6.0
JAN 17...	0.310	0.090	--	--	--	0.050	7.9
FEB 21...	0.450	0.070	--	--	--	0.100	2.9
MAR 27...	0.340	0.140	--	--	--	0.040	5.4
APR 18...	0.460	<0.030	--	--	--	0.100	4.7
MAY 16...	0.360	0.030	--	--	--	0.040	4.5
JUN 20...	0.250	<0.030	--	--	--	0.040	4.8
JUL 17...	0.150	<0.030	--	0.50	0.65	0.050	5.0
AUG 22...	0.220	<0.030	--	0.20	0.42	0.090	6.1
SEP 26...	0.130	<0.030	--	<0.10	--	0.070	5.8

APALACHICOLA RIVER BASIN

02344180 FLINT RIVER NEAR JONESBORO, GA.

LOCATION.--Lat 33°32'14", long 84°22'35", Clayton County, Hydrologic Unit 03130005, at bridge on State Highway 138, 0.8 mi west of U.S. Highway 41, 1.5 mi northwest of Jonesboro, and at mile 338.1.

DRAINAGE AREA.--39.1 mi².

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 04...	1030	58	118	109	6.9	6.7	20.0	17.0	6.7	76
NOV 07...	1140	41	170	172	7.0	7.2	14.0	20.0	7.5	75
DEC 06...	1000	31	126	133	7.2	6.9	5.5	13.5	10.0	81
JAN 03...	1130	34	110	117	6.9	6.7	5.5	13.0	9.9	80
FEB 06...	1130	44	98	97	7.0	7.0	10.5	18.5	10.0	91
MAR 05...	1120	45	109	110	6.9	6.8	12.0	16.0	9.1	86
APR 04...	1045	30	125	129	7.1	7.0	11.0	12.0	9.8	92
MAY 01...	0940	30	110	110	7.0	6.9	20.0	26.0	6.4	72
JUN 06...	0915	70	140	144	7.2	7.2	21.5	23.5	6.2	72
JUL 11...	1300	7.5	155	160	7.4	7.3	27.0	37.0	5.6	72
AUG 08...	0700	13	115	111	7.2	7.3	23.0	24.5	6.0	72
SEP 05...	0730	6.0	125	124	6.8	7.1	23.0	22.0	5.5	66

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 04...	19	7.2	5600	27	13	0.380	0.040	0.090	--
NOV 07...	8.0	1.2	1300	43	5	0.190	0.030	0.100	5.0
DEC 06...	12	1.7	80	37	5	0.380	0.070	0.160	3.4
JAN 03...	14	2.0	130	28	6	0.220	0.350	0.130	4.0
FEB 06...	28	1.6	170	26	6	0.350	0.130	0.080	2.7
MAR 05...	17	0.3	230	28	4	0.330	0.120	0.180	3.6
APR 04...	13	1.1	330	32	3	0.390	0.070	0.090	7.4
MAY 01...	22	1.0	490	32	14	0.380	0.820	0.080	4.2
JUN 06...	16	0.9	1300	42	13	0.350	0.070	0.070	3.0
JUL 11...	7.0	0.6	330	47	4	0.160	<0.030	0.070	3.3
AUG 08...	17	1.5	330	35	16	0.190	0.110	<0.020	5.9
SEP 05...	14	0.3	460	36	11	0.190	0.080	0.060	5.1

APALACHICOLA RIVER BASIN

02344190 FLINT RIVER NEAR FAYETTEVILLE, GA.

LOCATION.--Lat 33°29'13", long 84°23'44", Fayette-Clayton County line, Hydrologic Unit 03130005, at bridge on State Highway 54, 200 ft east of Thomas Road, 0.2 mi upstream from Camp Creek, 4.4 mi northeast of Fayetteville, and at mile 333.7.

DRAINAGE AREA.--49 mi².

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
04...	1050	74	99	94	6.8	6.6	19.0	25.0	6.0	66
NOV										
07...	1150	58	148	147	7.0	6.9	15.0	22.0	6.1	62
DEC										
06...	1030	39	120	127	7.3	7.0	5.0	13.5	9.7	78
JAN										
03...	1200	40	104	106	6.7	6.7	5.5	13.0	10.0	80
FEB										
06...	1200	47	83	79	7.0	6.8	10.5	18.5	10.2	93
MAR										
05...	1150	68	90	90	7.0	6.8	11.5	19.0	9.0	84
APR										
04...	1130	55	112	114	7.2	7.0	11.5	12.5	8.3	79
MAY										
01...	1010	--	91	92	6.9	7.0	20.0	27.0	6.3	71
JUN										
06...	1000	25	135	136	7.2	7.1	21.0	25.0	6.9	79
JUL										
11...	1030	19	150	151	7.0	7.2	27.0	37.0	4.1	53
AUG										
08...	0815	21	118	110	7.2	7.1	23.0	26.0	5.2	62
SEP										
05...	0800	14	110	105	6.8	7.0	23.0	23.5	5.6	67

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
04...	42	1.4	220	20	39	0.350	0.050	0.140	--
NOV									
07...	10	1.1	90	41	<1	0.060	0.040	0.110	3.0
DEC									
06...	15	1.4	110	35	7	0.250	<0.030	0.050	3.7
JAN									
03...	21	2.2	20	27	14	0.170	0.320	0.130	5.1
FEB									
06...	44	1.5	700	22	11	0.240	0.080	0.260	3.2
MAR									
05...	23	0.3	210	27	5	0.260	0.080	0.180	3.2
APR									
04...	22	1.1	230	32	12	0.300	<0.030	0.100	4.0
MAY									
01...	40	1.3	330	27	20	0.350	0.400	0.110	11
JUN									
06...	40	0.9	170	37	49	0.310	<0.030	0.110	3.6
JUL									
11...	21	0.8	230	45	25	0.170	0.030	0.110	3.7
AUG									
08...	21	0.3	230	28	17	0.230	<0.030	0.020	5.3
SEP									
05...	24	0.6	220	30	16	0.210	0.080	0.100	5.3

APALACHICOLA RIVER BASIN

02344350 FLINT RIVER NEAR LOVEJOY, GA.

LOCATION.--Lat 33°24'56", long 84°23'05", Clayton County, Hydrologic Unit 03130005, at the downstream side of bridge on Hampton Road, 0.7 mi upstream from Shoal Creek, 4.4 mi southwest of Lovejoy, 4.7 mi southeast of Fayetteville, and at mile 325.7.

DRAINAGE AREA.--130 mi².

PERIOD OF RECORD.--May 1985 to current year.

GAGE.--Water-stage recorder. Datum of gage is 758.75 ft above National Geodetic Vertical Datum of 1929 (levels by Clayton County Water Authority).

REMARKS.--No estimated daily discharges. Records good. Discharge affected by diversion by the Clayton County Water Authority.

AVERAGE DISCHARGE.--5 years, 161 ft³/s, 16.82 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,690 ft³/s, Mar. 17, 1990, gage height, 17.76 ft (from floodmark); minimum daily discharge, 12 ft³/s, Oct. 20, 1987.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1800	6,350	16.26	Feb. 17	1000	3,860	13.77
Jan. 21	2200	4,710	14.72	Feb. 19	2200	3,580	13.43
Jan. 25	2300	4,340	14.32	Mar. 17	1900	*8,090	*17.76
Feb. 10	2200	1,920	10.90				

Minimum daily discharge, 17 ft³/s, July 9-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4240	45	78	208	181	149	193	151	76	24	34	246
2	4710	46	75	262	160	160	170	117	72	21	52	121
3	1300	48	74	139	150	480	169	101	73	20	114	71
4	403	48	70	112	164	553	149	93	76	20	87	47
5	221	48	67	120	553	234	136	112	69	21	47	40
6	158	48	67	409	348	178	133	293	61	20	53	37
7	127	51	72	833	176	157	144	201	61	19	64	34
8	106	95	282	488	177	148	164	109	60	18	57	32
9	92	278	1140	531	176	197	133	112	59	17	91	30
10	80	185	629	293	1070	300	126	268	53	17	169	35
11	74	108	322	191	1390	197	260	347	52	17	125	55
12	70	84	226	160	492	160	417	137	50	19	67	96
13	69	76	642	137	242	144	185	121	43	35	44	48
14	68	71	676	122	187	137	143	174	38	92	37	143
15	69	73	252	113	163	132	151	129	37	157	34	582
16	69	126	170	108	803	278	233	99	38	106	32	375
17	68	402	142	106	3170	5480	159	94	42	42	36	81
18	71	249	126	113	1050	4050	127	107	35	38	32	49
19	77	118	149	177	2070	836	113	109	34	43	30	40
20	71	94	253	191	2140	405	106	83	32	107	59	36
21	62	84	230	1980	580	292	106	204	30	331	43	34
22	58	84	147	2680	327	245	122	167	29	132	58	32
23	56	142	125	582	372	216	144	103	38	81	148	30
24	54	448	122	328	331	198	121	85	77	66	193	26
25	51	221	117	2400	216	187	105	78	41	128	136	24
26	50	121	108	3180	179	169	98	73	33	66	56	23
27	49	101	104	870	162	163	91	70	29	48	45	23
28	47	94	105	362	154	162	140	97	30	41	39	22
29	46	93	103	265	---	164	585	222	37	37	36	22
30	45	89	103	265	---	223	359	249	27	35	76	22
31	45	---	121	249	---	247	---	97	---	33	257	---
TOTAL	12706	3770	6897	17974	17183	16641	5282	4402	1432	1851	2351	2456
MEAN	410	126	222	580	614	537	176	142	47.7	59.7	75.8	81.9
MAX	4710	448	1140	3180	3170	5480	585	347	77	331	257	582
MIN	45	45	67	106	150	132	91	70	27	17	30	22
CFSM	3.15	.97	1.71	4.46	4.72	4.13	1.35	1.09	.37	.46	.58	.63
IN.	3.64	1.08	1.97	5.14	4.92	4.76	1.51	1.26	.41	.53	.67	.70
CAL YR 1989	TOTAL	75775	MEAN	208	MAX	4710	MIN	19	CFSM	1.60	IN	21.68
WTR YR 1990	TOTAL	92945	MEAN	255	MAX	5480	MIN	17	CFSM	1.96	IN	26.60

APALACHICOLA RIVER BASIN

02344380 FLINT RIVER NEAR INMAN, GA.

LOCATION.--Lat 33°23'08", long 84°23'24", Fayette-Clayton County line, Hydrologic Unit 03130005, at bridge on Hill Bridge Road, 0.6 mi downstream from Gay Creek, and 1.4 mi east of State Highway 92 at Inman, and at mile 322.3.

DRAINAGE AREA.--158 mi².

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 04...	1130	--	59	56	6.5	6.5	19.5	24.0	6.1	68
NOV 07...	1250	70	96	94	7.0	7.0	14.0	23.0	8.6	86
DEC 06...	1150	78	82	86	7.1	6.9	5.5	17.0	10.9	89
JAN 03...	1230	144	80	80	6.8	6.7	6.0	15.5	10.6	86
FEB 06...	1230	480	57	55	6.7	6.8	11.0	19.0	9.5	88
MAR 05...	1250	--	62	61	6.8	6.6	12.0	21.5	8.8	83
APR 04...	1210	154	77	76	7.2	7.0	11.5	13.0	8.6	81
MAY 01...	1050	155	71	70	6.8	6.8	19.5	28.0	6.8	76
JUN 06...	1100	65	90	90	7.2	7.1	22.5	25.5	6.8	80
JUL 11...	1130	--	100	100	6.9	7.1	27.0	34.0	6.0	77
AUG 08...	0900	--	100	93	7.2	7.1	24.0	26.0	6.3	77
SEP 05...	0845	--	94	89	6.8	7.0	23.5	23.0	6.4	77

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 04...	39	1.4	330	10	11	0.150	<0.030	0.120	--
NOV 07...	8.0	0.9	20	31	3	0.060	0.030	0.120	3.5
DEC 06...	14	1.3	130	28	9	0.220	<0.030	0.090	5.1
JAN 03...	19	2.1	80	18	11	0.210	0.130	0.220	4.7
FEB 06...	68	1.3	790	15	15	0.140	0.030	0.110	4.9
MAR 05...	30	0.5	100	16	<1	0.170	0.130	0.200	3.4
APR 04...	16	1.0	110	23	1	0.190	0.030	0.180	4.4
MAY 01...	29	0.9	70	22	13	0.230	0.250	0.120	4.1
JUN 06...	15	0.3	85	29	8	0.270	<0.030	0.100	3.3
JUL 11...	12	0.7	170	34	5	0.180	0.030	0.100	3.4
AUG 08...	15	0.9	80	26	8	0.230	<0.030	0.040	4.6
SEP 05...	17	0.4	50	26	6	0.240	0.080	0.110	5.5

APALACHICOLA RIVER BASIN

02344400 FLINT RIVER ABOVE GRIFFIN, GA.

LOCATION.--Lat 33°18'33", long 84°23'36", Spalding-Fayette County line, Hydrologic Unit 03130005, at bridge on State Highway 92, 3.4 mi upstream from Central of Georgia Railroad bridge, 8.5 mi northwest of Griffin, and at mile 313.2.

DRAINAGE AREA.--194 mi².

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 04...	1200	2300	49	45	6.5	6.4	19.5	26.0	6.0	67
NOV 07...	1330	--	96	95	7.1	7.0	14.5	23.0	8.4	85
DEC 06...	1145	63	78	82	7.3	6.9	5.5	17.0	10.3	84
JAN 03...	1300	260	78	79	6.8	6.7	6.5	16.5	10.2	84
FEB 06...	1315	1050	62	61	6.8	6.8	11.5	19.5	9.4	88
MAR 05...	1330	--	60	57	6.8	6.7	13.5	22.5	9.1	88
APR 04...	1245	170	65	72	7.2	7.0	11.5	13.5	8.2	77
MAY 01...	1120	290	59	68	6.8	6.8	19.5	28.0	6.3	70
JUN 06...	1140	52	90	86	7.1	7.2	22.0	29.5	6.2	73
JUL 11...	1230	10	103	102	7.2	7.0	29.0	36.0	4.0	53
AUG 08...	0930	--	90	86	7.3	7.0	25.0	28.5	5.4	67
SEP 05...	0915	56	90	89	6.8	6.9	24.0	26.0	5.7	69

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 04...	50	22	1.3	790	9	7
NOV 07...	8.0	8	1.1	20	33	3
DEC 06...	13	<5	1.3	50	28	7
JAN 03...	21	21	2.5	20	18	9
FEB 06...	58	25	1.6	1100	14	14
MAR 05...	31	<5	0.6	790	15	<1
APR 04...	17	21	0.7	130	24	2
MAY 01...	28	12	0.9	330	20	8
JUN 06...	19	12	0.5	220	29	13
JUL 11...	15	21	0.8	95	37	11
AUG 08...	20	11	0.9	1100	25	15
SEP 05...	21	15	0.4	490	24	14

APALACHICOLA RIVER BASIN

02344400 FLINT RIVER ABOVE GRIFFIN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
04...	0.100	<0.030	--	0.50	0.60	0.100	--
NOV							
07...	0.060	<0.030	--	--	--	0.110	3.5
DEC							
06...	0.140	<0.030	--	--	--	0.060	5.0
JAN							
03...	0.240	0.140	0.26	0.40	0.64	0.180	5.5
FEB							
06...	0.180	<0.030	--	0.40	0.58	0.130	4.4
MAR							
05...	0.180	0.150	0.25	0.40	0.58	0.190	4.4
APR							
04...	0.180	<0.030	--	0.11	0.29	0.120	2.6
MAY							
01...	0.210	0.110	0.26	0.37	0.58	0.120	5.3
JUN							
06...	0.280	0.060	0.24	0.30	0.58	0.100	4.5
JUL							
11...	0.150	0.050	0.55	0.60	0.75	0.120	3.2
AUG							
08...	0.230	0.030	0.17	0.20	0.43	0.050	5.8
SEP							
05...	0.200	0.070	0.23	0.30	0.50	0.100	6.6

APALACHICOLA RIVER BASIN

02344500 FLINT RIVER NEAR GRIFFIN, GA.

LOCATION.--Lat 33°14'39", long 84°25'45", Spalding County, Hydrologic Unit 03130005, at downstream side of bridge pier on State Highway 16, 1.5 mi downstream from Shoal Creek, 5.5 mi upstream from Line Creek, 10 mi west of Griffin, and at mile 304.4.

DRAINAGE AREA.--272 mi².

PERIOD OF RECORD.--March 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 711.44 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Aug. 25, 1938, nonrecording gage at present site at datum 3.00 ft higher. Aug. 25, 1938, to May 5, 1941, nonrecording gage, May 6, 1941, to Aug. 20, 1959, water-stage recorder, and Aug. 21, 1959 to Sept. 13, 1960, nonrecording gage, all at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Some diurnal fluctuation at low flow. City of Griffin diverts approximately 8 ft³/s for municipal supply at pumping plant 6 mi upstream from gage. Approximately 1 ft³/s of the diversion discharged as sewage effluent into tributaries of Towaliga River, and approximately 3 ft³/s returned as sewage effluent to Flint River approximately 49 mi downstream. Records of chemical analyses for the water years 1968-69, 1971-72, are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--53 years, 347 ft³/s, 17.32 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,200 ft³/s, Nov. 27, 1948, gage height, 18.0 ft; minimum daily discharge, 0.79 ft³/s, July 2, 3, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 14 or 15, 1929, reached a stage of 17.9 ft, present datum, from floodmark located by local resident, discharge, 15,300 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	1900	7,580	14.67	Feb. 18	0600	4,210	12.80
Jan. 23	0400	4,190	12.65	Feb. 20	2000	3,810	12.50
Jan. 26	2100	5,490	13.43	Mar. 17	2000	*11,500	*16.20
Feb. 12	0500	2,090	10.82				

Minimum daily discharge, 10 ft³/s, July 11,12.

APALACHICOLA RIVER BASIN

02344500 FLINT RIVER NEAR GRIFFIN, GA.—Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2620	87	155	429	492	335	432	604	153	26	42	201
2	6400	88	141	416	393	337	414	263	121	23	43	234
3	5780	98	133	414	353	431	383	196	122	18	52	145
4	2330	104	127	295	347	640	330	170	129	12	112	95
5	1040	105	116	252	370	875	296	160	115	15	99	55
6	422	103	113	714	566	533	278	226	105	15	58	43
7	269	96	128	1070	672	367	309	332	91	11	53	38
8	215	110	591	1400	368	325	301	279	84	12	67	34
9	181	157	980	1230	442	327	291	202	83	14	82	38
10	156	269	1240	896	934	386	259	289	84	14	164	36
11	130	258	1260	663	1320	483	359	355	71	10	212	37
12	122	174	784	414	1910	393	431	415	62	10	166	50
13	121	141	791	332	1160	322	544	237	58	12	100	93
14	118	129	819	287	589	295	353	207	50	36	59	74
15	121	124	1010	260	413	279	289	226	44	102	46	157
16	128	148	632	241	690	515	289	192	49	142	40	296
17	126	193	347	236	3120	7590	326	155	49	118	36	411
18	128	336	292	261	3860	11000	275	151	50	55	35	140
19	151	366	412	290	2560	5420	227	157	39	46	37	71
20	152	201	552	328	3200	1720	201	159	33	70	31	51
21	139	157	505	679	2820	931	196	188	30	136	46	45
22	128	142	433	1850	1360	609	216	385	30	256	47	42
23	116	219	336	3390	852	477	226	283	28	179	67	41
24	106	279	288	1490	691	417	229	186	31	208	160	36
25	103	411	216	2030	642	382	206	150	69	207	180	30
26	99	383	216	4550	471	354	183	133	47	167	158	26
27	103	215	217	4180	390	331	169	135	31	105	77	25
28	102	172	215	1810	357	315	187	179	26	71	53	23
29	101	181	211	964	---	342	351	180	23	59	43	23
30	95	170	210	646	---	411	551	248	27	54	39	25
31	88	---	257	558	---	421	---	265	---	44	75	---
TOTAL	21890	5616	13727	32575	31342	37563	9101	7307	1934	2247	2479	2615
MEAN	706	187	443	1051	1119	1212	303	236	64.5	72.5	80.0	87.2
MAX	6400	411	1260	4550	3860	11000	551	604	153	256	212	411
MIN	88	87	113	236	347	279	169	133	23	10	31	23
CFSM	2.60	.69	1.63	3.86	4.11	4.46	1.11	.87	.24	.27	.29	.32
IN.	2.99	.77	1.88	4.46	4.29	5.14	1.24	1.00	.26	.31	.34	.36
CAL YR 1989	TOTAL	133949	MEAN	367	MAX	6400	MIN	23	CFSM	1.35	IN	18.32
WTR YR 1990	TOTAL	168396	MEAN	461	MAX	11000	MIN	10	CFSM	1.70	IN	23.03

APALACHICOLA RIVER BASIN

02344700 LINE CREEK NEAR SENOIA, GA.

LOCATION.--Lat 33°19'10", long 84°31'25", Coweta-Fayette County line, Hydrologic Unit 03130005, on downstream side of bridge on State Highway 85, 2.2 mi northeast of Senoia, 4.1 mi upstream from Whitewater Creek, and 11.2 mi upstream from mouth.

DRAINAGE AREA.--101 mi², approximately.

PERIOD OF RECORD.--September 1964 to current year.

REVISED RECORDS.--WDR GA-87-1: 1986 (m).

GAGE.--Water-stage recorder. Elevation of gage is 740 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good, except those less than 50 ft³/s, which are fair. Low flow affected by withdrawals and return flow by several municipalities and by regulation of water level of Lake Peachtree.

AVERAGE DISCHARGE.--26 years, 130 ft³/s, 17.48 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,580 ft³/s, Nov. 5, 1977, gage height, 14.88 ft; minimum daily discharge, 1.0 ft³/s, Oct. 7, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	2000	4,930	12.58	Feb. 17	1000	2,950	11.22
Jan. 21	2400	2,730	11.03	Feb. 19	2300	2,660	10.96
Jan. 26	0200	2,980	11.24	Mar. 17	1800	*7,290	*13.84

Minimum daily discharge, 3.8 ft³/s, July 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	2870	35	71	199	227	189	175	135	55	6.5	14	18	
2	3190	36	65	197	212	200	145	108	51	5.4	15	20	
3	1020	39	60	184	185	325	140	92	52	4.6	15	15	
4	407	48	57	172	156	350	136	83	55	4.4	16	12	
5	241	55	54	156	234	247	122	88	50	4.5	17	10	
6	163	49	54	303	216	202	123	142	36	4.2	17	8.5	
7	127	56	58	407	177	182	143	112	29	3.8	20	7.3	
8	106	74	301	373	175	169	147	85	32	3.9	18	6.5	
9	93	142	754	369	198	182	129	98	33	5.7	63	7.6	
10	83	110	550	326	458	205	125	231	31	9.5	79	8.5	
11	78	78	313	244	726	184	226	206	27	20	74	31	
12	72	64	246	200	441	166	256	121	24	25	49	28	
13	68	56	533	152	283	156	167	104	22	19	32	32	
14	65	54	603	112	216	149	137	118	21	40	25	111	
15	65	60	307	102	188	143	159	101	20	51	20	138	
16	64	99	205	99	1010	266	192	83	20	34	17	73	
17	64	235	161	108	2620	4940	152	76	19	24	22	37	
18	78	191	139	124	1070	3100	127	84	18	22	21	22	
19	74	105	182	158	1720	812	112	71	17	22	14	17	
20	67	83	250	155	1810	430	105	62	14	45	10	14	
21	61	71	218	984	750	325	104	183	11	50	8.5	12	
22	57	67	164	1820	431	257	118	135	9.9	44	15	11	
23	54	136	136	595	412	216	126	82	9.8	54	160	10	
24	51	201	121	406	352	192	111	67	18	248	133	8.7	
25	45	142	121	1770	263	178	101	60	18	79	64	6.0	
26	46	100	113	2380	221	167	90	53	13	42	37	5.0	
27	42	86	106	944	204	168	77	49	10	30	25	6.8	
28	37	83	106	396	196	168	140	108	8.6	24	19	6.9	
29	36	106	105	280	---	194	329	126	7.8	20	16	8.2	
30	35	85	106	272	---	256	214	99	6.9	18	17	7.2	
31	35	---	129	264	---	239	---	67	---	15	17	---	
TOTAL	9494	2746	6388	14251	15151	14957	4428	3229	739.0	978.5	1069.5	698.2	
MEAN	306	91.5	206	460	541	482	148	104	24.6	31.6	34.5	23.3	
MAX	3190	235	754	2380	2620	4940	329	231	55	248	160	138	
MIN	35	35	54	99	156	143	77	49	6.9	3.8	8.5	5.0	
CFSM	3.03	.91	2.04	4.55	5.36	4.77	1.47	1.03	.24	.31	.34	.23	
IN.	3.50	1.01	2.35	5.25	5.58	5.51	1.63	1.19	.27	.36	.39	.26	
CAL YR 1989	TOTAL	56169.0		MEAN	154	MAX	3190	MIN	24	CFSM	1.53	IN	20.69
WTR YR 1990	TOTAL	74129.2		MEAN	203	MAX	4940	MIN	3.8	CFSM	2.01	IN	27.30

APALACHICOLA RIVER BASIN

02346180 FLINT RIVER NEAR THOMASTON, GA.

LOCATION.--Lat 32°50'20", long 84°25'27", Upson-Talbot County line, Hydrologic Unit 03130005, at downstream end of left bank pier of bridge on State Highway 36, 2.5 mi upstream from Lazar Creek, and 7.8 mi southwest of Thomaston.

DRAINAGE AREA.--1,220 mi², approximately.

PERIOD OF RECORD.--May 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 490.00 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Estimated daily discharges: Aug. 1-Sept. 30. Records good, except those for the period of estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--24 years, 1,561 ft³/s, 17.38 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,400 ft³/s, Mar. 3, 1971, gage height, 18.4 ft, from floodmarks; minimum daily discharge, 55 ft³/s, July 22, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 28, 1948 reached a stage of 19.3 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 4	0700	13,500	13.50	Feb. 19	1300	13,500	13.50
Jan. 27	0300	12,900	13.30	Mar. 17	0500	*29,200	*17.35

Minimum daily discharge, 120 ft³/s, Sept. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4940	473	802	2530	2310	1790	2010	2070	837	216	270	190
2	8780	474	738	2350	2060	1750	1920	1580	696	210	260	190
3	12400	486	699	1990	1870	2090	1820	1130	639	201	250	280
4	13100	489	659	1740	1880	2350	1680	963	634	190	260	290
5	9600	496	640	1660	1840	2560	1550	912	635	181	250	250
6	3730	514	624	3080	1860	2410	1450	966	584	170	280	210
7	1390	530	827	4830	2040	1870	1560	1100	546	163	270	170
8	985	585	3910	5860	1920	1620	1600	1140	517	175	250	150
9	809	765	6110	5540	1670	1550	1500	1090	489	191	370	150
10	703	834	5530	4260	3480	1610	1410	1480	474	164	390	130
11	633	906	4640	3200	4920	1710	1740	1660	455	160	360	130
12	585	806	3830	2450	4900	1720	2010	1560	422	174	450	160
13	563	673	3660	1920	4800	1570	1990	1320	391	217	440	170
14	557	609	3530	1640	3380	1470	1780	1110	370	364	370	180
15	555	613	3600	1480	2250	1420	1530	1060	352	333	300	250
16	555	737	3090	1390	2600	2690	1570	993	340	406	260	370
17	568	787	2070	1320	6000	25500	1580	879	332	405	240	460
18	597	939	1670	1320	10800	28200	1460	792	332	375	210	480
19	657	1120	2020	1430	13100	24900	1280	771	324	333	190	400
20	660	960	2960	1520	12300	20100	1180	744	308	361	170	270
21	612	765	2770	2530	11400	12300	1150	984	291	341	170	210
22	573	697	2310	3820	9830	4530	1210	1740	276	432	180	180
23	551	1070	1810	5980	6090	2680	1270	1800	295	545	190	180
24	536	1310	1580	7110	3650	2280	1250	1220	291	696	200	160
25	519	1330	1500	7510	2930	2080	1170	921	268	999	300	140
26	502	1300	1290	11200	2440	1920	1070	797	269	719	410	140
27	487	1100	1220	12800	2050	1790	986	726	294	496	360	130
28	486	903	1200	11900	1880	1700	1030	836	263	387	300	120
29	479	843	1160	8040	---	1730	1550	937	242	317	240	120
30	476	843	1130	3830	---	1990	2030	922	228	281	200	120
31	474	---	1580	2650	---	2070	---	900	---	259	180	---
TOTAL	68062	23957	69159	128880	126250	163950	45336	35103	12394	10461	8570	6380
MEAN	2196	799	2231	4157	4509	5289	1511	1132	413	337	276	213
MAX	13100	1330	6110	12800	13100	28200	2030	2070	837	999	450	480
MIN	474	473	624	1320	1670	1420	986	726	228	160	170	120
CFSM	1.80	.66	1.83	3.41	3.70	4.34	1.24	.93	.34	.28	.23	.18
IN.	2.08	.73	2.11	3.93	3.85	5.00	1.38	1.07	.38	.32	.26	.19

CAL YR 1989	TOTAL	559771	MEAN	1534	MAX	13100	MIN	252	CFSM	1.26	IN	17.07
WTR YR 1990	TOTAL	698502	MEAN	1914	MAX	28200	MIN	120	CFSM	1.57	IN	21.30

APALACHICOLA RIVER BASIN

02347500 FLINT RIVER NEAR CULLODEN, GA.

LOCATION.--Lat 32°43'17", long 84°13'57", Taylor-Upson County line, Hydrologic Unit 03130005, on left bank underneath bridge on U.S. Highway 19, 4 mi upstream from Auchumpkee Creek, 5 mi downstream from Swift Creek, 13 mi southwest of Culloden, and at mile 238.4.

DRAINAGE AREA.--1,850 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1911 to May 1923, July 1928 to December 1931, March 1937 to current year.

REVISED RECORDS.--WSP 697: 1911-23. WSP 1002: 1943. WSP 1504: 1913, 1916-17, 1918(M), 1919-22, 1923(M), drainage area.

GAGE.--Water-stage recorder. Datum of gage is 334.54 ft above National Geodetic Vertical Datum of 1929. July 1, 1911 to Oct. 11, 1918, nonrecording gage and Oct. 12, 1918 to May 31, 1923, water-stage recorder, at site 2.5 mi downstream at different datum. July 21, 1928 to Dec. 31, 1931, and Mar. 18, 1937 to May 3, 1939, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Records of chemical analyses for the water years 1968-79 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--67 years (water years 1912-22, 1929-31, 1938-90), 2,341 ft³/s, 17.18 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92,000 ft³/s, Mar. 15, 1929, gage height, 38.4 ft, from graph based on gage readings; minimum, 81 ft³/s, Aug. 7, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1912, that of Mar. 15, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 4	0900	13,800	15.24	Feb. 19	2100	17,300	17.54
Dec. 8	2200	11,500	13.49	Mar. 17	2100	*80,000	*38.00
Jan. 27	1700	13,800	15.20				

Minimum discharge, 164 ft³/s Sept. 29, 30, gage height, 1.15 ft.

APALACHICOLA RIVER BASIN

02347500 FLINT RIVER NEAR CULLODEN, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7960	722	1090	6430	3420	2890	3230	2630	1150	306	422	277
2	11700	728	1020	4640	3110	2810	3100	2240	1070	283	381	278
3	12900	746	961	3550	2850	3310	2950	1680	983	269	369	409
4	13700	757	917	3000	2910	3510	2710	1420	947	253	375	433
5	11400	757	891	2900	3060	3550	2470	1320	928	239	372	360
6	5860	757	883	4810	2810	3480	2320	1400	873	227	409	306
7	2430	786	1030	7010	2860	2980	2360	1470	818	213	396	254
8	1690	834	7330	9590	2860	2580	2440	1520	765	212	367	223
9	1410	1370	11000	8430	2550	2440	2320	1530	758	230	550	214
10	1230	1370	8420	6470	4740	2430	2190	2120	719	255	573	190
11	1130	1290	6280	4910	8410	2490	2520	2310	691	254	527	193
12	1070	1200	5310	3950	6820	2530	2910	2110	644	356	659	231
13	1020	1040	5790	3160	6250	2400	2810	1870	594	383	652	255
14	982	939	5050	2720	5000	2250	2620	1620	556	518	548	268
15	968	926	4660	2450	3600	2160	2300	1500	534	606	443	365
16	949	1090	4270	2300	4330	3910	2210	1420	511	603	378	539
17	940	1200	3250	2190	9720	54500	2210	1300	493	599	345	678
18	968	1220	2630	2120	12200	64500	2100	1200	485	551	302	703
19	1050	1350	3280	2160	15700	38700	1900	1130	478	503	283	591
20	1070	1360	4840	2250	16000	27800	1760	1090	456	669	255	390
21	1020	1160	4390	3580	13600	18200	1690	1290	429	744	251	307
22	964	1020	3610	4990	11900	8840	1740	2030	412	750	258	270
23	926	1270	2940	6220	8680	5160	1810	2380	409	757	280	261
24	876	1840	2360	7690	5520	4400	1800	1830	438	965	294	233
25	852	1790	2030	8090	4380	4010	1690	1410	407	1100	446	209
26	816	1720	2000	11300	3800	3710	1570	1210	373	1120	607	199
27	786	1610	1950	13600	3290	3330	1460	1090	384	780	534	190
28	757	1320	1910	13400	3020	3020	1470	1100	382	631	448	179
29	752	1150	1850	10400	---	2900	1900	1290	346	516	352	168
30	740	1120	1790	5780	---	3140	2480	1250	323	447	293	172
31	728	---	2960	3930	---	3360	---	1190	---	414	267	---
TOTAL	89644	34442	106692	174020	173390	291290	67040	48950	18356	15753	12636	9345
MEAN	2892	1148	3442	5614	6193	9396	2235	1579	612	508	408	312
MAX	13700	1840	11000	13600	16000	64500	3230	2630	1150	1120	659	703
MIN	728	722	883	2120	2550	2160	1460	1090	323	212	251	168
CFSM	1.56	.62	1.86	3.04	3.35	5.08	1.21	.85	.33	.28	.22	.17
IN.	1.80	.69	2.15	3.50	3.49	5.86	1.35	.98	.37	.32	.25	.19
CAL YR 1989	TOTAL	786035	MEAN	2154	MAX	13700	MIN	364	CFSM	1.16	IN	15.81
WTR YR 1990	TOTAL	1041558	MEAN	2854	MAX	64500	MIN	168	CFSM	1.54	IN	20.94

APALACHICOLA RIVER BASIN

02347500 FLINT RIVER NEAR CULLODEN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to June 1979, July 1990 to September 1990.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1961 to September 1962.

WATER TEMPERATURE: June 1960 to September 1964.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.s. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 138 microsiemens Aug. 14, 1962; minimum daily, 25 microsiemens Feb. 22, 1962.

WATER TEMPERATURE: Maximum, 34.0 May 18, 19, 23, 1962; minimum, 0.0°C Jan. 10, 1962.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
JUL 18...	1330	550	--	92	7.2	7.3	28.0	28.0	7.3	--

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUL 18...	5.0	0.7	1700	23	0.150	0.040	0.080	2.9

APALACHICOLA RIVER BASIN

02349500 FLINT RIVER AT MONTEZUMA, GA.

LOCATION.--Lat 32°17'53", long 84°02'38", Macon County, Hydrologic Unit 03130006, near left bank on downstream end of pier of bridge on State Highway 49, 1,000 ft upstream from Central of Georgia Railway bridge, 1,400 ft upstream from Seaboard Coast Line Railroad (formerly Atlanta, Birmingham and Coast) bridge, just upstream from Buck Creek, 1 mi west of Montezuma and at mile 180.6.

DRAINAGE AREA.--2,900 mi², approximately; includes that of Buck Creek.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1904 to December 1912 (published as "near Montezuma"), July 1930 to current year. Monthly discharge only for January to December 1910, published in WSP 1304. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area. WSP 852: 1936(M). WSP 1504: 1905-9, 1911-12, drainage area (at site used prior 1912). WDR GA-82-1: 1981(P).

GAGE.--Water-stage recorder. Datum of gage is 255.83 ft above National Geodetic Vertical Datum of 1929. January 1905 to December 1909, and January 1911 to December 1912, nonrecording gage at site 1.5 mi upstream at same datum. July 1, 1930 to June 30, 1933, and Oct. 1, 1934 to Dec. 12, 1941, nonrecording gage, and Dec. 13, 1941 to Oct. 25, 1955, water-station recorder at site 500 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Records include flow of Buck Creek. Prior to Dec. 31, 1963, when operation was discontinued, moderate diurnal fluctuation at low flow caused by powerplant above station.

AVERAGE DISCHARGE.--68 years (water years 1905-12, 1931-90), 3,513 ft³/s, 16.45 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,900 ft³/s, Nov. 30, 1948, gage height, 25.2 ft, maximum gage height, 26.05 ft, Mar. 20, 1990; minimum, 440 ft³/s, Aug. 8, 9, 1986.

FLOODS OUTSIDE PERIOD OF RECORD.--Flood on Mar. 2, 1897, reached a stage of 26.0 ft at former site, from National Weather Service, discharge, 97,000 ft³/s, from rating curve extended above 10,000 ft³/s on basis of peak flows passing upstream and downstream stations. Flood on Mar. 17, 1929, reached a stage of 27.4 ft, at present site, from National Weather Service discharge, 92,300 ft³/s, from rating curve extended above 65,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 13,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 7	0900	15,200	14.57	Feb. 22	2100	19,100	16.32
Dec. 13	0600	13,000	13.59	Mar. 20	0300	*64,900	*26.05
Jan. 31	0300	15,600	14.75				

Minimum discharge, 605 ft³/s, Sept. 29.

APALACHICOLA RIVER BASIN

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3330	1310	1950	4990	13200	4780	5030	3270	1800	767	927	765
2	5800	1310	1870	6870	9050	4430	5050	3390	1770	749	914	744
3	8120	1320	1790	7830	5510	5370	4910	3150	1740	733	940	731
4	9620	1330	1720	7880	4600	5930	4690	2660	1690	709	886	720
5	12000	1350	1660	6210	4430	5840	4400	2310	1610	692	856	759
6	14300	1330	1620	5150	4490	5510	4070	2150	1550	678	855	771
7	15100	1330	1630	6280	4230	5160	3900	2140	1490	663	846	746
8	13500	1440	2530	7950	4080	4670	3870	2160	1420	654	876	718
9	7830	2090	5990	8830	4070	4120	3890	2230	1390	661	1050	709
10	2990	2660	8030	9650	3980	3820	3770	2530	1450	670	1030	704
11	2300	2870	9320	11100	4800	3710	3900	3110	1450	687	1100	686
12	2040	2680	11800	11200	6520	3700	4070	3430	1380	747	1060	670
13	1880	2310	12900	9400	7660	3700	4340	3150	1300	791	1030	670
14	1780	1940	11400	6570	8390	3600	4240	2810	1230	882	1070	691
15	1720	1770	9520	4680	8430	3440	3950	2540	1180	945	1030	717
16	1680	1890	8340	4040	7610	3380	3600	2320	1150	1020	961	716
17	1660	2060	7100	3730	6760	5150	3360	2170	1120	1040	888	742
18	1640	2150	5880	3530	7390	9740	3270	2040	1090	1040	831	844
19	1710	2070	5000	3400	8680	44600	3150	1930	1040	1050	787	928
20	1850	2060	5360	3360	11000	62300	2960	1840	1010	1110	751	953
21	1880	2070	6280	3960	14900	48000	2790	1860	988	1280	723	892
22	1770	1940	6680	5190	18400	34500	2700	2070	953	1420	714	804
23	1660	2070	6150	6280	18600	25100	2700	2580	911	1370	746	740
24	1580	2300	4930	6810	17000	18100	2730	3070	887	1350	792	694
25	1530	2690	3960	7260	14900	12700	2720	2790	877	1360	772	671
26	1480	2700	3390	7950	11800	8460	2610	2250	876	1440	769	650
27	1430	2540	3210	8680	8440	6190	2470	1960	850	1530	843	630
28	1390	2410	3110	9660	5820	5370	2430	1830	828	1370	931	619
29	1360	2250	3010	12100	---	4960	2660	1830	813	1190	915	611
30	1340	2080	2920	14800	---	4710	2900	1900	798	1080	859	611
31	1330	---	3230	15400	---	4800	---	1870	---	992	801	---
TOTAL	127600	60320	162280	230740	244740	365840	107130	75340	36641	30670	27553	21906
MEAN	4116	2011	5235	7443	8741	11800	3571	2430	1221	989	889	730
MAX	15100	2870	12900	15400	18600	62300	5050	3430	1800	1530	1100	953
MIN	1330	1310	1620	3360	3980	3380	2430	1830	798	654	714	611
CFSM	1.42	.69	1.81	2.57	3.01	4.07	1.23	.84	.42	.34	.31	.25
IN.	1.64	.77	2.08	2.96	3.14	4.69	1.37	.97	.47	.39	.35	.28
CAL YR 1989	TOTAL	1167952	MEAN	3200	MAX	15100	MIN	899	CFSM	1.10	IN	14.98
WTR YR 1990	TOTAL	1490760	MEAN	4084	MAX	62300	MIN	611	CFSM	1.41	IN	19.12

APALACHICOLA RIVER BASIN

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.29	2.11	3.30	7.32	13.67	7.12	7.40	5.27	3.04	.96	1.25	.84
2	8.18	2.10	3.16	9.26	11.15	6.72	7.41	5.43	2.99	.91	1.22	.78
3	10.43	2.12	3.03	10.17	7.89	7.75	7.26	5.11	2.93	.88	1.28	.75
4	11.68	2.15	2.89	10.22	6.91	8.34	7.02	4.42	2.84	.82	1.15	.72
5	13.11	2.18	2.78	8.60	6.71	8.25	6.68	3.89	2.69	.77	1.07	.82
6	14.18	2.15	2.71	7.52	6.78	7.91	6.29	3.64	2.57	.73	1.07	.85
7	14.52	2.15	2.73	8.68	6.49	7.53	6.08	3.61	2.46	.69	1.05	.79
8	13.81	2.36	4.16	10.27	6.31	6.99	6.04	3.65	2.33	.66	1.12	.71
9	9.98	3.52	8.35	11.06	6.29	6.34	6.07	3.77	2.27	.68	1.53	.69
10	4.88	4.42	10.35	11.72	6.18	5.98	5.93	4.22	2.38	.71	1.49	.67
11	3.87	4.73	11.45	12.62	7.13	5.85	6.08	5.06	2.39	.76	1.65	.62
12	3.44	4.45	12.98	12.68	8.92	5.84	6.30	5.49	2.24	.91	1.56	.58
13	3.17	3.89	13.53	11.51	10.01	5.83	6.61	5.11	2.07	1.03	1.49	.58
14	2.99	3.28	12.77	8.95	10.68	5.71	6.50	4.64	1.94	1.24	1.58	.64
15	2.89	2.99	11.62	7.00	10.71	5.50	6.15	4.24	1.84	1.38	1.50	.71
16	2.83	3.19	10.63	6.26	9.96	5.42	5.70	3.90	1.75	1.54	1.33	.71
17	2.77	3.49	9.48	5.87	9.16	7.45	5.39	3.66	1.69	1.58	1.15	.78
18	2.75	3.63	8.28	5.62	9.75	11.53	5.27	3.45	1.62	1.59	1.01	1.04
19	2.88	3.50	7.36	5.45	10.92	22.34	5.11	3.26	1.52	1.60	.90	1.25
20	3.13	3.49	7.74	5.40	12.56	25.67	4.85	3.11	1.47	1.73	.80	1.31
21	3.17	3.50	8.69	6.15	14.45	23.43	4.62	3.14	1.42	2.06	.73	1.16
22	2.97	3.28	9.08	7.56	16.03	20.80	4.48	3.50	1.34	2.35	.70	.94
23	2.78	3.50	8.55	8.68	16.13	18.37	4.47	4.29	1.25	2.25	.79	.77
24	2.64	3.87	7.28	9.20	15.41	15.86	4.53	5.00	1.20	2.19	.91	.65
25	2.53	4.47	6.15	9.64	14.42	13.41	4.50	4.60	1.19	2.22	.86	.58
26	2.43	4.47	5.44	10.27	12.97	10.71	4.34	3.79	1.19	2.38	.85	.52
27	2.34	4.24	5.20	10.93	10.69	8.59	4.14	3.32	1.14	2.53	1.04	.46
28	2.27	4.04	5.05	11.72	8.22	7.76	4.08	3.09	1.09	2.22	1.26	.43
29	2.21	3.78	4.92	13.13	---	7.32	4.42	3.08	1.06	1.84	1.22	.41
30	2.16	3.51	4.79	14.41	---	7.03	4.77	3.22	1.03	1.60	1.08	.41
31	2.13	---	5.21	14.65	---	7.14	---	3.16	---	1.40	.93	---
MEAN	5.30	3.35	7.09	9.44	10.23	10.14	5.62	4.04	1.90	1.43	1.15	.74
MAX	14.52	4.73	13.53	14.65	16.13	25.67	7.41	5.49	3.04	2.53	1.65	1.31
MIN	2.13	2.10	2.71	5.40	6.18	5.42	4.08	3.08	1.03	.66	.70	.41
CAL YR 1989	MEAN	4.60	MAX	14.52	MIN	1.11						
WTR YR 1990	MEAN	5.02	MAX	25.67	MIN	.41						

APALACHICOLA RIVER BASIN
02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to July 1974, August 1976 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
17...	1030	1660	53	57	6.9	6.6	21.0	24.0	8.4	96
NOV										
14...	1130	1940	54	56	6.9	6.8	15.0	20.5	8.6	87
DEC										
19...	1245	4950	43	42	6.8	6.5	5.0	2.0	11.8	94
JAN										
16...	1145	4040	47	49	7.0	6.4	9.0	15.0	10.8	94
FEB										
20...	1150	11000	36	39	6.6	6.3	13.5	16.5	8.9	86
MAR										
26...	1240	8300	38	37	7.0	6.7	17.0	24.0	8.2	85
APR										
17...	1155	3350	46	47	6.8	6.9	18.5	28.0	11.7	127
MAY										
15...	1145	2540	47	51	7.0	7.1	23.0	31.0	8.2	97
JUN										
19...	1200	1040	52	60	7.1	7.1	28.5	35.0	7.5	99
JUL										
19...	1220	1040	48	48	6.8	7.0	26.0	25.0	7.2	90
AUG										
23...	1015	733	47	--	6.9	7.0	25.5	29.0	7.0	87
SEP										
25...	1145	674	55	55	7.0	6.8	21.5	21.0	8.2	94

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
OCT							
17...	40	12	15	0.9	130	11	6
NOV							
14...	40	11	19	1.5	40	14	18
DEC							
19...	90	29	48	1.2	500	9	26
JAN							
16...	40	14	15	1.2	90	8	13
FEB							
20...	160	70	24	0.5	1300	8	30
MAR							
26...	120	40	21	0.3	50	8	31
APR							
17...	70	19	18	0.1	35	14	25
MAY							
15...	40	18	--	0.3	40	14	24
JUN							
19...	40	8.0	15	0.8	50	15	7
JUL							
19...	35	9.0	--	1.0	3300	20	11
AUG							
23...	30	9.0	--	0.1	1300	13	12
SEP							
25...	10	4.0	--	1.3	20	13	5

APALACHICOLA RIVER BASIN

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO ₂ + NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 17...	0.200	<0.030	--	0.10	0.30	0.170	--
NOV 14...	0.090	0.040	0.16	0.20	0.29	0.110	4.6
DEC 19...	0.250	0.030	--	<0.10	--	0.100	4.7
JAN 16...	0.790	0.090	0.15	0.24	1.0	0.070	6.9
FEB 20...	0.190	0.060	0.14	0.20	0.39	0.140	4.6
MAR 26...	0.230	<0.030	--	0.40	0.63	0.260	6.2
APR 17...	0.190	0.060	0.11	0.17	0.36	0.100	3.9
MAY 15...	0.240	<0.030	--	--	--	0.110	4.4
JUN 19...	0.180	<0.030	--	0.10	0.28	0.080	4.4
JUL 19...	0.430	<0.030	--	--	--	0.090	--
AUG 23...	0.250	<0.030	--	--	--	0.070	1.6
SEP 25...	0.190	0.080	--	--	--	0.050	4.3

APALACHICOLA RIVER BASIN

02349900 TURKEY CREEK AT BYROMVILLE, GA.

LOCATION.--Lat 32°11'44", long 83°54'03", Dooly County, Hydrologic Unit 03130006, on downstream side of bridge pier on State Highway 90, 0.5 mi southwest of Byromville, and 11 mi upstream from mouth.

DRAINAGE AREA.--45 mi², approximately.

PERIOD OF RECORD.--Water years 1951-58 (annual maximum), June 1958 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 286 ft above National Geodetic Vertical Datum of 1929 (from topographic map). Prior to June 19, 1958, crest-stage gage at site 50 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records fair.

AVERAGE DISCHARGE.--32 years, 44.7 ft³/s, 13.49 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,820 ft³/s, Apr. 1, 1981, gage height, 13.82 ft; minimum discharge, 1.9 ft³/s, revised, Oct. 5, 1968, June 1, 1974, and July 11-15, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 1	1400	502	9.69	Feb. 17	1200	470	9.59
Jan. 8	0900	*540	*9.80				

Minimum discharge, 2.5 ft³/s, Aug. 17-21, Sept. 4-8, Sept. 23-28.

REVISIONS.--The minimum discharge for water year 1968 has been revised to 1.9 ft³/s on Aug. 9, 1968 and Sept. 7 and 16, 1968; the minimum daily discharge for water year 1969 has been revised to 2.0 ft³/s on Oct. 5, 1968; and revised daily discharges, in cubic feet per second, for periods in 1967, water year 1968, and October 1968, are given below. These figures supersede those published in the annual reports for 1967-1969 and WSP 2106.

September 19, 1967.....	13	September 26 1967	11
20	13	27	12
21	13	28	11
22	12	29	9.6
23	12	30	8.8
24	11		
25	11		

	TOTAL	MEAN	MAX	MIN	CFSM	IN
September 1967	326.6	10.9	15	7.5	.24	.27
Water Year 1967	10973.9	30.1	390	4.7	.67	9.07

APALACHICOLA RIVER BASIN

02349900 TURKEY CREEK AT BYROMVILLE, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1967 TO SEPTEMBER 1968
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	10	4.4	16	18	24	12	2.4	6.8	1.8	4.5	7.5
2	22	20	4.0	27	19	19	12	2.7	7.5	1.6	3.8	7.0
3	22	30	7.0	29	22	18	13	5.1	9.6	2.1	2.7	7.0
4	23	27	13	25	20	17	12	6.8	7.0	4.9	3.5	6.8
5	23	18	9.0	22	18	16	20	8.4	6.2	3.5	4.7	6.4
6	23	12	6.0	18	21	16	14	8.2	6.4	3.0	4.9	6.0
7	24	8.0	5.7	18	20	16	13	7.5	13	2.2	4.4	5.7
8	6.8	5.6	5.3	17	18	15	13	8.8	11	2.2	4.0	2.8
9	15	5.6	5.3	16	17	15	13	9.1	6.8	5.7	4.4	4.0
10	20	5.6	28	39	18	18	14	9.6	5.7	4.5	3.3	3.5
11	22	5.8	25	55	17	26	18	9.1	5.3	4.5	4.4	2.5
12	22	6.0	15	37	17	40	16	8.6	5.5	2.7	4.7	2.4
13	22	5.8	11	30	16	38	13	9.8	5.3	4.5	12	2.2
14	25	5.8	9.5	27	15	26	12	12	5.3	7.2	11	1.8
15	7.7	5.6	11	25	17	21	16	6.8	6.6	6.0	7.9	2.1
16	10	5.6	9.9	23	18	20	14	7.7	6.6	4.5	7.2	2.2
17	7.5	5.6	9.3	21	18	20	13	5.3	6.8	4.9	6.8	2.4
18	10	5.6	9.1	21	17	19	16	4.5	7.7	4.9	6.6	3.0
19	16	5.6	8.9	20	17	18	18	4.2	7.7	5.1	4.9	3.0
20	12	5.6	9.9	19	17	26	18	3.6	7.0	6.0	6.2	3.0
21	6.8	6.0	12	18	16	17	18	3.3	6.4	7.9	6.2	2.2
22	5.7	11	13	18	17	15	18	3.8	7.2	9.3	6.4	1.9
23	7.0	20	10	19	18	19	18	4.4	8.8	8.6	6.0	2.1
24	5.5	18	8.6	28	21	18	20	4.4	9.1	7.2	6.0	2.5
25	8.4	12	8.7	27	20	17	21	4.2	5.5	1.1	7.0	2.5
26	7.5	13	8.9	23	18	16	20	6.0	2.7	1.8	7.7	3.1
27	8.2	15	9.5	20	18	16	20	6.4	.94	1.2	7.7	4.0
28	10	10	38	18	17	15	15	7.0	1.2	.61	7.0	4.0
29	8.6	6.0	28	18	24	20	3.8	6.4	1.6	.61	5.7	3.8
30	3.3	5.0	17	19	---	14	3.8	6.0	1.6	.50	6.2	3.6
31	5.7	---	14	18	---	14	---	6.6	---	.61	6.8	---
TOTAL	431.7	314.8	374.0	731	529	609	447.6	198.7	188.84	121.23	184.6	111.0
MEAN	13.9	10.5	12.1	23.6	18.2	19.6	14.9	6.41	6.29	3.91	5.95	3.70
MAX	25	30	38	55	24	40	21	12	13	9.3	12	7.5
MIN	3.3	5.0	4.0	16	15	14	3.8	2.4	.94	.50	2.7	1.8
CFSM	.31	.23	.27	.52	.40	.44	.33	.14	.14	.09	.13	.08
IN.	.36	.26	.31	.60	.44	.50	.37	.16	.16	.10	.15	.09
CAL YR 1967	TOTAL	10949.70	MEAN	30.0	MAX	390	MIN	3.3	CFSM	.67	IN	9.05
WTR YR 1968	TOTAL	4241.47	MEAN	11.6	MAX	55	MIN	.50	CFSM	.26	IN	3.51

October 1, 1968	2.5	October 14, 1968.....	4.5
2.....	2.6	15	4.5
3.....	2.2	16	5.3
4.....	2.2	17	3.3
5.....	2.0	18	4.0
6.....	2.6	19	4.4
7.....	3.8	20	3.3
8.....	4.0	21	2.6
9.....	3.6	22	2.6
10.....	3.8	23	3.0
11.....	3.6	24	3.3
12.....	3.3	25	3.3
13.....	3.6		

	TOTAL	MEAN	MAX	MIN	CFSM	IN
OCT 1968	107.0	3.45	5.3	2.0	.08	.09
CAL YR 1968	3447.5	9.42	55	2.0	.21	285
WTR YR 1969	10219.9	28.0	560	2.0	.62	8.45

APALACHICOLA RIVER BASIN

02349900 TURKEY CREEK AT BYROMVILLE, GA.—Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	5.4	14	426	66	62	44	9.2	4.9	3.0	2.9	2.9
2	57	5.6	13	259	63	60	40	8.2	5.1	3.7	3.2	2.8
3	20	6.1	12	149	61	73	37	7.7	4.9	5.3	5.6	2.7
4	13	7.3	11	109	60	67	32	7.1	4.9	4.0	3.7	2.6
5	9.9	5.7	10	90	55	56	29	7.5	4.7	3.6	3.3	2.6
6	8.2	5.7	10	199	51	51	26	8.0	4.4	3.5	3.3	2.6
7	6.9	5.8	15	410	50	47	25	7.4	4.3	3.3	3.1	2.6
8	6.4	16	70	496	49	43	23	6.8	4.3	3.3	3.1	2.8
9	5.7	37	153	295	47	41	25	8.0	4.5	4.7	21	3.4
10	5.3	18	110	197	61	42	22	15	4.6	4.1	6.1	3.1
11	5.2	12	70	157	104	41	25	11	4.4	3.6	4.2	3.0
12	4.8	9.6	67	129	77	37	23	8.5	4.1	3.9	3.4	2.9
13	4.8	8.4	185	106	62	35	20	7.7	4.0	3.9	3.2	2.9
14	5.0	7.8	133	91	52	34	19	7.6	3.8	5.2	3.0	3.1
15	5.2	8.0	77	83	48	34	18	6.9	3.7	4.1	2.9	3.8
16	5.2	9.6	64	78	94	32	17	6.3	3.8	3.8	2.8	3.2
17	5.3	8.9	53	74	370	146	15	6.1	3.7	3.6	2.7	3.0
18	5.5	8.7	62	73	189	257	14	5.8	3.7	4.9	2.6	2.9
19	5.8	8.6	95	70	163	127	13	5.6	3.7	6.9	2.6	2.9
20	5.3	8.4	138	66	160	81	13	5.5	3.5	7.6	2.5	2.8
21	5.2	8.6	104	165	115	61	13	6.0	3.4	5.6	2.9	2.8
22	5.2	9.5	79	247	116	54	14	8.5	3.4	4.4	3.9	2.7
23	5.0	46	66	137	177	48	12	7.1	3.5	3.9	4.8	2.7
24	4.8	27	58	101	123	45	12	6.1	3.4	3.6	6.6	2.5
25	4.8	18	54	101	89	42	11	5.8	3.3	3.4	4.0	2.5
26	4.7	14	52	150	74	39	10	5.4	3.2	3.3	3.5	2.7
27	4.7	12	49	107	67	35	9.4	5.3	3.2	3.2	3.4	2.7
28	4.7	14	46	83	65	33	10	5.3	3.1	3.2	3.2	2.7
29	4.7	22	44	79	—	36	11	5.2	3.1	3.2	3.0	2.8
30	4.8	18	42	91	—	40	10	5.0	3.0	3.1	3.2	3.2
31	5.1	—	111	75	—	48	—	4.9	—	3.0	3.1	—
TOTAL	292.2	391.7	2067	4893	2708	1847	592.4	220.5	117.6	125.9	126.8	85.9
MEAN	9.43	13.1	66.7	158	96.7	59.6	19.7	7.11	3.92	4.06	4.09	2.86
MAX	57	46	185	496	370	257	44	15	5.1	7.6	21	3.8
MIN	4.7	5.4	10	66	47	32	9.4	4.9	3.0	3.0	2.5	2.5
CFSM	.21	.29	1.48	3.51	2.15	1.32	.44	.16	.09	.09	.09	.06
IN.	.24	.32	1.71	4.04	2.24	1.53	.49	.18	.10	.10	.10	.07
CAL YR 1989	TOTAL	10774.5	MEAN	29.5	MAX	505	MIN	3.3	CFSM	.66	IN	8.91
WTR YR 1990	TOTAL	13468.0	MEAN	36.9	MAX	496	MIN	2.5	CFSM	.82	IN	11.13

APALACHICOLA RIVER BASIN

02350001 FLINT RIVER NEAR VIENNA, GA.

LOCATION.--Lat 32°03'38", long 83°58'36", Dooly County, Hydrologic Unit 03100206, at bridge on State Route 27, 0.2 mi downstream of Turkey Creek, 12 mi west of Vienna, and at mile 154.1.

DRAINAGE AREA.--3,390 mi².

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Records of discharge for the water years 1927-30 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	GAGE HEIGHT (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 17...	0930	7.91	84	81	6.9	6.7	22.0	23.5	7.8	91
NOV 14...	1045	7.96	73	68	7.0	6.7	15.0	19.5	8.0	81
DEC 19...	1150	8.02	60	58	6.8	6.9	5.5	3.5	11.8	95
JAN 16...	1050	8.04	63	66	7.1	6.6	9.5	11.0	10.6	93
FEB 20...	1100	8.05	50	48	6.7	6.5	14.0	15.5	8.6	84
MAR 26...	1140	9.21	41	42	6.8	6.6	17.0	24.0	7.7	80
APR 17...	1020	8.09	70	70	6.9	7.1	18.0	24.0	11.5	123
MAY 15...	1035	7.91	77	88	7.0	7.2	22.5	30.0	8.0	94
JUN 19...	1035	7.01	88	93	7.1	7.0	28.0	32.0	6.4	84
JUL 19...	1305	7.87	94	90	7.0	7.1	27.0	27.0	6.9	88
AUG 23...	0925	7.60	105	105	6.9	7.0	28.5	27.0	5.6	74
SEP 25...	1255	7.22	66	65	7.1	6.9	25.0	23.5	7.3	90

APALACHICOLA RIVER BASIN

02350001 FLINT RIVER NEAR VIENNA, GA.--Continued

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 17...	40	12	1.0	170	17	0.280	0.030	0.130	—
NOV 14...	65	12	1.4	210	15	0.160	0.040	0.120	5.6
DEC 19...	85	28	1.4	370	11	0.310	<0.030	0.120	5.1
JAN 16...	50	21	0.9	50	12	0.330	0.040	0.080	8.1
FEB 20...	120	74	0.6	790	9	0.250	0.040	0.090	4.9
MAR 26...	140	48	0.3	—	9	0.220	<0.030	0.060	5.8
APR 17...	80	18	0.2	220	16	0.240	0.060	0.060	4.5
MAY 15...	40	15	2.9	50	20	0.320	0.070	0.140	4.9
JUN 19...	40	10	0.7	<20	20	0.260	0.060	0.050	5.0
JUL 19...	40	12	1.2	490	20	0.280	<0.030	0.080	—
AUG 23...	60	9.0	0.6	330	19	0.230	0.030	0.090	6.8
SEP 25...	25	8.0	1.1	70	14	0.230	0.060	0.120	5.0

APALACHICOLA RIVER BASIN

02350512 FLINT RIVER AT STATE HIGHWAY 32 NEAR OAKFIELD, GA.

LOCATION.--Lat 31°43'30", long 84°01'07", Worth-Lee County line. Hydrologic Unit 03130006, on downstream end of pier of bridge on State Highway 32, 5 mi southwest of Oakfield, 3.2 mi downstream from Jones Creek, 13.9 mi downstream from Crisp County damsite, and at river mile 120.8.

DRAINAGE AREA.--3,880 mi², approximately.

PERIOD OF RECORD.--October 1929 to December 1958, May 1987 to current year. Monthly discharge only, October 1929 to January 1930 and June 1933 to October 1934 (published in WSP 1304). Prior to May 1987, published as "at Oakfield" (station 02350500).

GAGE.--Water-stage recorder. Elevation of gage is 190 ft above National Geodetic Vertical Datum of 1929 (from topographic map). January 9, 1930 to June 23, 1933 and October 1, 1934 to December 31, 1958, recording gage at site 4.2 mi upstream at datum 193.29 ft above National Geodetic Vertical Datum of 1929, supplementary adjustment of 1936.

REMARKS.--Estimated daily discharges: April 30-May 11. Records good, except those except those for the period April 30 to May, which are poor. Flow regulated by powerplant at Warwick Reservoir since 1930, capacity about 35,000 acre-ft. Normal operation of powerplant does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.--32 years (water years 1930-58, 1988-90), 4,323 ft³/s, 15.13 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60,500 ft³/s, Dec. 3, 1948, gage height, 30.1 ft; minimum daily discharge, 152 ft³/s, June 8, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1898, 35.1 ft, Jan. 20, 1925, from floodmarks, 90,000 ft³/s. Flood in March 1929 reached a stage of 34.0 ft, from floodmarks, 85,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 50,200 ft³/s, Mar. 23, gage height, 27.37 ft; minimum daily discharge, 714 ft³/s, Sept. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4440	1770	2670	6610	14700	7310	6670	4200	1880	811	1020	1060
2	6160	1770	2630	10900	14900	6600	8000	4000	2070	832	1420	1030
3	6270	1770	2600	10500	11800	6190	6230	3900	2420	933	1080	923
4	6390	1770	3060	10200	7170	6100	5310	2800	2430	836	889	899
5	8340	1610	2150	9970	6260	7740	4400	2700	2840	826	921	883
6	10900	1310	1860	9790	6170	6480	4690	2600	1970	820	2250	872
7	12400	1760	1280	9600	6170	7250	5750	3200	2180	807	1070	1070
8	14200	2770	4660	14000	6080	6340	4340	1900	2010	806	953	1450
9	12600	4310	6140	16800	4480	5760	4620	3100	1680	910	1200	1410
10	9770	4410	8620	14000	4810	5770	5030	2000	1070	929	1310	1140
11	4730	3180	9590	13100	6410	4370	6000	2900	1440	845	1320	836
12	1860	2030	5940	12500	6550	5320	4760	3730	1840	816	1360	762
13	3160	3260	13700	13300	9590	4330	4300	3740	1690	821	1230	714
14	2100	2500	12400	11200	7320	4910	4940	3750	1730	820	1030	787
15	1810	3120	12800	8600	8860	4470	5250	4260	1620	816	1070	773
16	2730	2760	12300	6340	11700	4740	4280	3030	1200	810	1280	886
17	2170	2950	7920	6170	11800	9020	4300	3110	1010	810	988	881
18	1850	1960	7980	5750	11000	14000	4310	1840	1240	833	1060	876
19	2020	2520	8170	5240	11000	17100	4280	1680	2270	1500	985	878
20	2540	3570	6310	4700	11000	25600	3890	2490	1900	1560	1140	873
21	1740	1970	8550	5510	12700	38900	3020	2880	1340	1880	1020	865
22	2090	2800	8080	6710	16700	48300	4210	2740	880	1030	948	867
23	2710	4350	9200	9900	17100	47600	3140	2900	883	1890	1020	897
24	1430	3410	6330	9630	17100	38800	3090	2700	884	1080	911	1030
25	2010	2000	5230	8720	19500	28500	3020	4100	878	1880	988	1240
26	1880	4170	5620	10900	17400	17900	3010	3280	867	2450	1040	3620
27	1780	4270	4580	11100	14300	10400	3590	3100	832	1480	1030	3450
28	1480	2260	3480	10500	10200	7560	3230	1740	809	1200	1300	1790
29	2220	2660	5040	10500	---	6370	2910	2550	781	1190	944	1730
30	1320	3910	4400	12300	---	6470	2600	2040	814	1320	868	1040
31	1760	---	5020	13400	---	6510	---	2250	---	979	881	---
TOTAL	136860	82900	198310	308440	302770	416710	133170	91210	45458	34520	34526	35532
MEAN	4415	2763	6397	9950	10810	13440	4439	2942	1515	1114	1114	1184
MAX	14200	4410	13700	16800	19500	48300	8000	4260	2840	2450	2250	3620
MIN	1320	1310	1280	4700	4480	4330	2600	1680	781	806	868	714
CFSM	1.14	.71	1.65	2.56	2.79	3.46	1.14	.76	.39	.29	.29	.31
IN.	1.31	.79	1.90	2.96	2.90	4.00	1.28	.87	.44	.33	.33	.34
CAL YR 1989	TOTAL	1469908	MEAN	4027	MAX	15200	MIN	741	CFSM	1.04	IN	14.09
WTR YR 1990	TOTAL	1820406	MEAN	4987	MAX	48300	MIN	714	CFSM	1.29	IN	17.45

APALACHICOLA RIVER BASIN

02350600 KINCHAFOONEE CREEK AT PRESTON, GA.

LOCATION.--Lat 32°03'09", long 84°32'54", Webster County, Hydrologic Unit 03130007, at bridge on State Highway 41, 1.0 mi southwest of Preston, and 1.0 mi upstream from Harrel Mill Creek.

DRAINAGE AREA.--197 mi².

PERIOD OF RECORD.-- December 1969 to September 1970, November 1971 to current year.

REMARKS.--Laboratory analyses with the analyzing agency code 80020 are provided by the U.S. Geological Survey. Laboratory analyses with the analyzing agency code 81341 are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
FEB 05...	1200	80020	290	46	38	6.8	7.2	13.0	--	9.2	87
JUL 18...	1100	81341	60	32	32	7.0	6.7	24.5	29.5	7.0	85
AUG 27...	1200	80020	42	34	34	7.0	7.0	25.5	--	6.8	83
SEP 27...	1140	81341	32	30	29	6.8	6.7	30.0	18.0	8.1	109

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CaCO3)	HARD- NESS NONCARB DISSOLV LAB AS CaCO3 (MG/L)
FEB 05...	80020	65	7.0	--	--	13	3
JUL 18...	81341	110	20	0.5	140	--	--
AUG 27...	80020	120	12	--	--	11	1
SEP 27...	81341	65	14	0.5	330	--	--

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CaCO3
FEB 05...	80020	3.9	0.72	1.8	23	0.2	0.60	--
JUL 18...	81341	--	--	--	--	--	--	9
AUG 27...	80020	3.4	0.68	1.6	22	0.2	0.70	--
SEP 27...	81341	--	--	--	--	--	--	90

APALACHICOLA RIVER BASIN

02350600 KINCHAFOONEE CREEK AT PRESTON, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	ALKA- LITY WAT.DIS FET LAB CACO3 (MG/L)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
FEB 05...	80020	10	2.0	2.9	0.10	5.8	36	--	--	--
AUG 27...	80020	10	<1.0	3.2	<0.10	7.8	32	--	--	--
DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	
FEB 05...	80020		0.100	<0.100	0.030	0.020		0.37	0.28	
JUL 18...	81341		0.200	--	<0.030	--	--	--	--	
AUG 27...	80020		0.200	0.200	0.030	0.060		0.47	--	
SEP 27...	81341		0.170	--	<0.030	--	--	--	--	
DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)		
FEB 05...	80020	0.40	0.30	0.50	--	0.070	0.080	5.5		
JUL 18...	81341	--	--	--	--	0.080	--	4.1		
AUG 27...	80020	0.50	<0.20	0.70	--	0.040	0.010	4.9		
SEP 27...	81341	--	--	--	--	0.030	--	4.9		
DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)		
FEB 05...	80020	40	<1	<1	<1.0	<5	10	230		
AUG 27...	80020	<10	1	<1	<1.0	<1	<1	97		
DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, DIS- SOLVED (UG/L AS ZN)		
FEB 05...	80020	3	<10	110	<0.10	<0.1	<1	8		
AUG 27...	80020	<1	<1	110	0.30	<0.1	<1	3		

APALACHICOLA RIVER BASIN

02350900 KINCHAFOONEE CREEK NEAR DAWSON, GA.

LOCATION.--Lat 31°45'52", long 84°15'12", Lee County, Hydrologic Unit 03130007, on downstream end of bridge pier on Prison Farm Road, 3.6 mi west of U.S. Highway 19, and 5.2 mi northwest of Leesburg.

DRAINAGE AREA.--527 mi², approximately.

PERIOD OF RECORD.--Water years 1949-65 (annual maximum), March 1985 to current year.

GAGE.--Water-stage recorder. Datum of gage is 211.74 ft above National Geodetic Vertical Datum of 1929 (Georgia State Highway Commission benchmark). April 6, 1949 to September 30, 1965, crest-stage gage at site 1,500 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--5 years (water years 1986-90), 426 ft³/s, 10.98 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,800 ft³/s, Apr. 6, 1960, gage height, 19.45 ft, minimum daily discharge, 39 ft³/s, July 15, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1943 or 1944 is believed to have reached an elevation of about 23 ft from information by local resident. Maximum stage of 20.46 was reached March 5, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 5	0500	2,420	11.65	Jan. 9	1400	2,880	12.89
Dec. 13	0600	1,840	10.22	Jan. 24	1800	1,720	10.13
Jan. 4	2400	2,210	11.16	Mar. 20	0100	*11,300	*20.44

Minimum discharge, 66 ft³/s, Sept. 10, gage height, 2.60 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	304	183	448	1500	875	725	864	463	216	92	110	82
2	668	184	412	1810	846	708	933	478	202	88	103	80
3	963	192	371	1870	796	762	1000	388	210	94	97	82
4	1760	206	344	2090	757	858	1010	328	230	99	94	83
5	2270	210	330	2060	754	916	947	313	275	94	94	81
6	1530	207	320	1650	769	1050	912	360	277	93	92	76
7	622	204	317	1720	725	1100	830	369	251	91	91	73
8	386	233	418	2460	672	851	714	351	213	86	88	71
9	321	678	769	2780	652	693	646	324	220	107	84	70
10	279	962	1010	2750	688	652	628	477	252	166	86	67
11	251	1170	1260	2370	867	627	788	601	231	160	86	67
12	235	1320	1620	1960	938	611	776	621	220	152	89	68
13	226	1170	1770	1570	957	595	704	659	186	157	91	68
14	222	745	1430	1240	961	579	757	589	168	168	85	73
15	222	436	1210	1030	892	563	801	477	153	177	79	71
16	223	452	1150	928	755	549	630	444	145	177	76	91
17	224	524	1110	863	1020	872	549	386	150	169	74	94
18	223	535	979	826	1230	1470	517	327	179	146	72	85
19	230	538	871	798	1340	5520	481	341	209	133	73	77
20	279	466	1090	774	1450	9230	449	357	180	280	73	72
21	386	389	1210	887	1520	4040	431	325	153	522	73	69
22	396	358	1210	1180	1510	2260	423	353	136	587	81	68
23	296	404	1170	1490	1510	1670	418	461	126	665	85	68
24	253	522	1060	1690	1440	1370	408	552	125	497	100	69
25	233	599	804	1620	1220	1170	393	548	123	254	116	69
26	219	665	660	1430	1030	1050	375	390	114	198	110	68
27	208	622	622	1160	887	961	354	307	108	182	105	68
28	199	479	604	1090	771	889	344	271	101	165	100	68
29	192	452	583	1050	---	843	371	251	95	144	95	68
30	187	457	564	1010	---	816	411	240	93	131	87	71
31	183	---	693	912	---	854	---	240	---	119	86	---
TOTAL	14190	15562	26409	46568	27832	44854	18864	12591	5341	6193	2775	2217
MEAN	458	519	852	1502	994	1447	629	406	178	200	89.5	73.9
MAX	2270	1320	1770	2780	1520	9230	1010	659	277	665	116	94
MIN	183	183	317	774	652	549	344	240	93	86	72	67
CFSM	.87	.99	1.62	2.85	1.89	2.75	1.19	.77	.34	.38	.17	.14
IN.	1.00	1.10	1.86	3.29	1.96	3.17	1.33	.89	.38	.44	.20	.16
CAL YR 1989	TOTAL	164618	MEAN	451	MAX	2270	MIN	97	CFSM	.86	IN	11.62
WTR YR 1990	TOTAL	223396	MEAN	612	MAX	9230	MIN	67	CFSM	1.16	IN	15.77

APALACHICOLA RIVER BASIN

02351890 MUCKALEE CREEK AT STATE HIGHWAY 195, NEAR LEESBURG, GA.

LOCATION.--Lat 31°46'34", long 84°08'22", Lee County, Hydrologic Unit 03130007, on downstream end of bridge pier on State Highway 195, 75 ft downstream from White Oak Branch, 3.3 mi downstream from Muckaloochee Creek, and 4.0 mi northeast of Leesburg.

DRAINAGE AREA.--362 mi².

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

REVISED RECORDS.--WRD GA-82-1: 1980(P), 1981(P).

GAGE.--Water-stage recorder. Elevation of gage is 220 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good. Discharges during growing season affected by undetermined amount of irrigation withdrawal.

AVERAGE DISCHARGE.--10 years (water years 1981-90), 335 ft³/s, 12.51 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,290 ft³/s, Feb. 7, 1985, gage height, 13.91 ft; minimum discharge, 12 ft³/s, July 20, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 3	0200	1,890	11.09	Jan. 24	2300	1,320	10.23
Jan. 8	2100	*2,840	*11.92	Mar. 20	1800	2,510	11.66

Minimum discharge, 29 ft³/s Aug. 21, gage height, 2.36 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	229	116	292	825	571	529	522	236	146	49	47	62
2	354	123	309	1450	566	482	530	258	132	47	42	61
3	476	131	272	1810	552	503	583	223	206	63	41	70
4	654	137	238	1560	526	517	605	185	213	98	40	83
5	976	145	222	1270	496	567	561	176	230	137	39	80
6	952	144	214	1060	492	650	489	194	228	114	46	76
7	581	143	216	1310	502	787	460	195	192	92	47	71
8	282	173	243	2540	508	679	417	203	149	82	51	65
9	199	360	333	2740	478	505	375	201	134	81	48	58
10	169	457	479	2400	468	450	351	240	135	82	55	56
11	155	605	703	1950	567	426	432	301	132	108	68	56
12	144	695	980	1520	650	412	455	361	139	113	69	55
13	140	643	1110	1160	665	396	416	389	125	102	67	52
14	138	545	865	901	631	373	406	342	108	101	64	50
15	138	332	755	756	599	360	419	242	96	104	52	52
16	140	259	762	673	532	353	343	220	90	116	46	54
17	142	266	726	602	616	569	300	202	129	116	43	68
18	144	287	651	573	793	984	278	176	124	116	40	72
19	145	318	568	560	1080	1330	259	164	126	112	38	65
20	148	320	592	544	1110	2190	244	165	130	106	34	60
21	170	291	713	592	1090	1910	231	162	129	116	30	56
22	195	242	835	785	968	1200	223	183	86	140	33	53
23	194	279	796	1140	959	883	222	258	77	160	35	49
24	163	283	669	1310	952	689	218	358	71	127	39	46
25	150	326	565	1290	839	594	209	343	69	103	46	45
26	144	355	467	1150	752	524	201	258	67	85	53	45
27	136	366	418	935	694	459	188	187	62	73	61	44
28	121	363	402	778	595	424	189	173	56	72	71	42
29	112	312	389	739	---	448	199	164	53	69	69	41
30	111	278	377	697	---	447	205	155	50	71	66	44
31	113	---	440	611	---	508	---	149	---	57	63	---
TOTAL	7915	9294	16601	36231	19251	21148	10530	7063	3684	3012	1543	1731
MEAN	255	310	536	1169	688	682	351	228	123	97.2	49.8	57.7
MAX	976	695	1110	2740	1110	2190	605	389	230	160	71	83
MIN	111	116	214	544	468	353	188	149	50	47	30	41
CFSM	.70	.86	1.48	3.23	1.90	1.88	.97	.63	.34	.27	.14	.16
IN.	.81	.96	1.71	3.72	1.98	2.17	1.08	.73	.38	.31	.16	.18
CAL YR 1989	TOTAL	108159	MEAN	296	MAX	1680	MIN	39	CFSM	.82	IN	11.11
WTR YR 1990	TOTAL	138003	MEAN	378	MAX	2740	MIN	30	CFSM	1.04	IN	14.18

APALACHICOLA RIVER BASIN

02352500 FLINT RIVER AT ALBANY, GA.

LOCATION.--Lat 31°35'39", long 84°08'39", Dougherty County, Hydrologic Unit 03130008, on right bank at downstream side of Georgia Northern Railway bridge in Albany, and at mile 103.4.

DRAINAGE AREA.--5,310 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1897 to September 1901 (gage heights only), October 1901 to June 1921, October 1929 to current year.

Gage-height records collected at site 1 mi downstream since 1893 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1504: 1902, 1913(M), 1916-17, 1919-21, 1930(m), 1934(m), drainage area.

GAGE.--Water-stage recorder. Datum of gage is 150.03 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1902, nonrecording gage at site 1 mi downstream at datum 1.3 ft lower. Jan. 1, 1902 to June 30, 1921, nonrecording gage at site 1 mi downstream at datum 2.0 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft; and at Warwick Reservoir since 1930, capacity about 35,000 acre-ft. Normal operation of powerplants does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.--80 years (water years 1902-20, 1930-90), 6,177 ft³/s, 15.80 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,000 ft³/s, Mar. 7, 1966, gage height, 34.72 ft; minimum daily, 327 ft³/s, regulated Aug. 24, 1930.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1893, 37.84 ft Jan. 21, 1925, from floodmark, present site and datum, discharge, 92,000 ft³/s, from rating curve extended above 75,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 9	1200	26,200	19.35	Mar. 23	1330	*58,700	*30.92
Feb. 26	0245	22,400	16.85				

Minimum daily discharge, 634 ft³/s, Aug. 21.

APALACHICOLA RIVER BASIN

02352500 FLINT RIVER AT ALBANY, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4460	2150	2920	10300	17100	8820	7940	5000	2470	951	1120	1060
2	7400	1880	3560	12200	17300	8920	10700	4740	2330	1010	1540	1240
3	7370	2180	2950	15800	16000	7860	7510	4760	2750	1150	1580	1110
4	8600	2130	3790	15100	9500	8020	7600	3290	2680	1080	1290	1050
5	10500	1950	2540	14100	7880	10100	5880	3420	3120	1130	1050	1030
6	12900	1470	2470	14700	7360	7880	6070	3200	2780	1210	1530	998
7	15500	2120	1920	15000	8270	9880	7760	3890	2410	1020	1610	1040
8	16000	3160	4270	20700	7470	8340	5480	2210	2700	1080	1150	1510
9	15600	5040	7400	25900	5720	7840	5720	4110	2100	1200	1180	1500
10	10500	5180	8780	23600	6030	7060	6800	2350	1880	992	1440	1380
11	6160	5630	13700	20000	7830	5100	6630	4450	1740	1470	1440	983
12	2560	2400	6120	17900	8660	7510	6310	4710	1820	1140	1500	916
13	1860	5810	16500	18800	12200	4660	6270	4720	2320	1160	1460	682
14	2750	3890	15700	16000	9140	6350	5660	4840	1960	1160	1170	1070
15	2760	3900	16200	12600	11400	5680	6330	4460	2050	1140	1200	1020
16	2250	3450	15400	8970	13800	6350	6020	3540	1680	1180	1360	1010
17	2630	3750	11200	8000	15500	10400	4650	3830	1320	1210	1220	1430
18	2440	3080	9380	8310	14700	16900	5910	3520	1180	1270	1030	900
19	2650	2850	11800	6350	14800	19800	5530	2610	2670	1790	1210	772
20	2480	4490	7680	7010	15000	26800	3850	2900	2070	1900	1590	1010
21	2450	2550	10200	6780	15700	39900	3220	2240	2010	1790	634	985
22	2380	2980	11500	9130	19500	51400	4970	3410	1180	2380	1140	979
23	2690	5410	12100	13000	20800	57700	3450	3420	1010	1630	1040	986
24	2870	4370	8990	13400	20300	51600	3680	3370	1390	2840	1140	1010
25	2070	2510	7440	13000	21900	38700	3620	5360	1260	2080	1060	1200
26	2100	4700	6580	13900	21600	27200	4320	3750	903	3280	1160	3110
27	2290	5710	5810	15500	18800	16200	3510	3410	1140	1550	1640	3320
28	2120	2910	5010	13800	12800	10700	3920	3580	1090	1310	800	2790
29	2130	2890	5190	13500	---	7860	4060	1940	1000	1310	1520	1640
30	1860	5450	5970	14300	---	9350	3140	2520	1070	1650	957	1660
31	2000	---	6030	16300	---	7920	---	2420	---	1100	976	---
TOTAL	162330	105990	249100	433950	377060	512800	166510	111970	56083	45163	38737	39391
MEAN	5236	3533	8035	14000	13470	16540	5550	3612	1869	1457	1250	1313
MAX	16000	5810	16500	25900	21900	57700	10700	5360	3120	3280	1640	3320
MIN	1860	1470	1920	6350	5720	4660	3140	1940	903	951	634	682
CFSM	.99	.67	1.51	2.64	2.54	3.12	1.05	.68	.35	.27	.24	.25
IN.	1.14	.74	1.75	3.04	2.64	3.59	1.17	.78	.39	.32	.27	.28
CAL YR 1989	TOTAL	1834458	MEAN	5026	MAX	18900	MIN	855	CFSM	.95	IN	12.85
WTR YR 1990	TOTAL	2299084	MEAN	6299	MAX	57700	MIN	634	CFSM	1.19	IN	16.11

APALACHICOLA RIVER BASIN

02352500 FLINT RIVER AT ALBANY, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.27	3.69	4.08	8.53	12.87	7.68	7.23	5.64	3.81	2.26	2.53	2.43
2	6.93	3.37	4.79	9.74	13.03	7.78	8.71	5.50	3.84	2.32	3.01	2.66
3	6.93	3.67	4.35	12.00	12.13	7.19	6.98	5.52	4.17	2.53	3.07	2.51
4	7.57	3.67	4.90	11.48	8.07	7.27	7.04	4.29	4.10	2.46	2.75	2.42
5	8.68	3.49	4.02	10.74	7.20	8.41	6.11	4.41	4.38	2.53	2.42	2.31
6	10.07	2.93	3.98	11.16	6.92	7.19	6.21	4.36	4.02	2.62	2.90	2.34
7	11.74	3.66	3.38	11.39	7.40	8.28	7.14	4.99	3.82	2.36	2.99	2.38
8	12.09	4.30	5.12	15.54	6.98	7.43	5.90	3.65	4.05	2.44	2.55	3.01
9	11.80	5.59	6.89	19.20	6.02	7.17	6.02	5.06	3.60	2.61	2.56	3.00
10	8.67	5.72	7.68	17.69	6.19	6.77	6.61	3.66	3.37	2.31	2.91	2.85
11	6.26	5.97	10.73	15.10	7.17	5.68	6.50	5.32	3.14	2.77	2.92	2.32
12	3.67	3.69	5.99	13.51	7.60	6.99	6.18	5.48	3.15	2.51	2.99	2.22
13	3.13	6.02	12.51	14.17	9.62	5.39	6.34	5.49	3.76	2.57	2.94	1.76
14	4.20	4.92	11.87	12.12	7.86	6.37	5.96	5.55	3.38	2.57	2.55	2.44
15	4.22	5.00	12.27	9.90	9.11	5.99	6.37	5.34	3.51	2.54	2.63	2.38
16	3.68	4.66	11.66	7.75	10.64	6.37	6.13	4.55	3.10	2.56	2.83	2.36
17	4.11	4.87	9.00	7.25	11.76	8.63	5.41	4.69	2.75	2.57	2.65	2.79
18	3.95	4.37	8.02	7.42	11.15	12.74	6.14	4.71	2.59	2.70	2.40	2.06
19	4.13	4.28	9.36	6.36	11.27	14.89	5.92	4.03	4.11	3.31	2.63	1.93
20	3.98	5.28	7.08	6.74	11.37	19.44	4.74	4.16	3.55	3.38	2.86	2.36
21	3.95	4.03	8.44	6.60	11.91	25.39	4.50	3.49	3.51	3.14	1.71	2.32
22	3.88	4.34	9.20	7.86	14.72	29.13	5.61	4.53	2.59	3.34	2.45	2.32
23	4.16	5.85	9.55	10.05	15.63	30.69	4.66	4.66	2.36	3.06	2.41	2.33
24	4.13	5.26	7.77	10.29	15.29	29.16	4.63	4.53	2.85	4.15	2.54	2.29
25	3.48	4.02	6.96	10.10	16.49	24.93	4.64	5.83	2.66	3.57	2.44	2.63
26	3.63	5.44	6.50	10.66	16.24	19.73	5.23	4.90	2.17	4.58	2.58	4.44
27	3.70	6.02	6.07	11.76	14.18	12.31	4.70	4.67	2.45	3.00	3.09	4.58
28	3.66	4.15	5.48	10.58	10.08	8.71	5.03	4.73	2.42	2.77	1.95	4.14
29	3.67	4.29	5.62	10.33	---	7.18	5.11	3.33	2.33	2.77	2.88	3.17
30	3.36	5.67	6.17	10.89	---	7.97	4.26	3.89	2.45	3.16	2.27	3.19
31	3.52	---	6.20	12.28	---	7.22	---	3.80	---	2.47	2.31	---
MEAN	5.56	4.61	7.28	10.94	10.68	11.94	5.87	4.67	3.27	2.84	2.64	2.66
MAX	12.09	6.02	12.51	19.20	16.49	30.69	8.71	5.83	4.38	4.58	3.09	4.58
MIN	3.13	2.93	3.38	6.36	6.02	5.39	4.26	3.33	2.17	2.26	1.71	1.76
CAL YR 1989	MEAN	5.43	MAX	14.24	MIN	2.12						
WTR YR 1990	MEAN	6.06	MAX	30.69	MIN	1.71						

APALACHICOLA RIVER BASIN
02352500 FLINT RIVER AT ALBANY, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC 19...	1030	13000	60	57	6.7	6.9	7.0	2.0	12.4	103
MAR 26...	1045	27900	50	50	6.9	6.9	17.0	24.0	9.0	94
SEP 27...	0955	3140	100	99	7.3	7.4	24.5	22.0	7.4	90

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC 19...	120	38	1.4	110	12	--	0.290	0.070	6.6
MAR 26...	160	54	0.5	20	15	0.270	<0.030	0.140	7.9
SEP 27...	30	5.0	0.4	20	22	0.060	0.030	0.040	4.4

APALACHICOLA RIVER BASIN

02352790 FLINT RIVER NEAR PUTNEY, GA.

LOCATION.--Lat 31°26'39", long 84°08'16", Dougherty County, Hydrologic Unit 03130008, at Plant Mitchell intake, 2.5 mi south of Putney, and at mile 90.8.

DRAINAGE AREA.--5,340 mi², approximately.

PERIOD OF RECORD.--August 1974 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: July 1979 to June 1984.

REMARKS.--Flow regulated by powerplants at Flint River and Warwick Reservoirs (see remarks for station 02352500). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 31.0°C July 15-18, 1980, July 26-29, 1981; minimum, 4.5°C Jan. 1-3, 1984.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC 20...	1525	6940	78	77	7.3	7.2	8.0	11.0	12.1	103
MAR 27...	1610	20500	62	61	7.0	6.9	16.0	15.0	9.9	101
JUN 20...	1545	2970	118	132	7.4	7.5	29.0	36.0	7.0	104
JUL 18...	0920	1590	132	128	7.2	7.4	28.0	25.0	6.0	77
AUG 22...	1445	1890	162	169	7.2	7.5	29.0	30.0	6.2	82
SEP 27...	0910	3570	113	114	7.2	7.4	24.0	20.0	7.1	86

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CAO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)
DEC 20...	90	28	--	1.3	490	20	9
MAR 27...	180	50	--	0.5	24000	19	14
JUN 20...	40	4.0	--	1.5	1700	36	11
JUL 18...	30	5.0	9	0.7	1200	45	6
AUG 22...	30	4.0	27	1.7	490	50	5
SEP 27...	35	7.0	--	1.0	50	30	--

APALACHICOLA RIVER BASIN

02352790 FLINT RIVER NEAR PUTNEY, GA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC 20...	0.400	<0.030	--	--	--	0.090	7.4
MAR 27...	0.300	0.060	--	--	--	0.270	6.6
JUN 20...	0.360	0.060	--	--	--	0.100	4.9
JUL 18...	0.410	0.080	0.32	0.40	0.81	0.090	4.1
AUG 22...	0.520	0.160	0.24	0.40	0.92	0.200	15
SEP 27...	0.090	0.030	--	--	--	0.100	2.9

APALACHICOLA RIVER BASIN

02353000 FLINT RIVER AT NEWTON, GA.
(National Stream-Quality Accounting Network station)

LOCATION.--Lat 31°18'34", long 84°20'06", Baker-Mitchell County line, Hydrologic Unit 03130008, on downstream side of pier of bridge on State Highway 37 at Newton, 1 mi downstream from Coolewahee Creek, and at mile 69.5.

DRAINAGE AREA.--5,740 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1938 to September 1950 (monthly discharge only for October 1945 to September 1946, October 1947 to December 1948, published in WSP 1304), October 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 110.20 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Nov. 12, 1956, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: July 25-26. Records good. Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft; and at Warwick Reservoir since 1930, capacity, about 35,000 acre-ft. Normal operation of powerplants does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.--46 years (water years 1939-50, 1957-90), 6,758 ft³/s, 15.99 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,600 ft³/s, Mar. 9, 1966, gage height, 34.9 ft; minimum discharge, 790 ft³/s, regulated Oct. 20, Nov. 10, 1940.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1893, 41.3 ft Jan. 21, 1925, from floodmark; discharge, 94,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 20,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 10	2000	25,300	19.34	Mar. 25	0700	*47,700	*28.81
Feb. 26	1700	21,800	17.55				

Minimum discharge, 928 ft³/s, Sept. 19, gage height, 3.13 ft.

APALACHICOLA RIVER BASIN

02353000 FLINT RIVER AT NEWTON, GA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3860	2760	4760	9420	15800	11300	9980	5380	3340	1530	1540	1360
2	6130	2620	3690	9880	16700	10900	10800	5790	3130	1390	1610	1480
3	7400	2600	4060	14400	16600	9540	10200	5730	3380	1560	2020	1490
4	7610	2790	3620	13800	13200	9420	9400	5540	3490	1630	1950	1400
5	8760	2650	4110	13700	9910	10100	8520	4500	3800	1560	1670	1340
6	11000	2410	3180	13700	9200	9790	7840	3510	3930	1560	1580	1350
7	12800	2150	3200	14500	8920	10200	8480	4830	3220	1580	2400	1300
8	13800	2790	2890	17400	9030	9630	8220	4250	3380	1510	1680	1450
9	14400	4510	7090	22700	8220	9240	7230	3640	3190	1640	1620	1800
10	12500	5470	6740	25000	7250	8590	8120	4860	2910	1620	1740	1800
11	9100	5680	11800	23400	8180	7880	7720	4100	2560	1570	1820	1610
12	6010	4360	7270	20500	9380	7350	8430	5160	2410	1810	1890	1310
13	2710	5240	11900	18900	10200	7210	6960	5660	2810	1610	1880	1240
14	3760	4960	14600	18000	10800	7130	6930	5540	2810	1610	1700	1080
15	3780	4320	14300	15600	10700	7090	7660	5520	2630	1580	1600	1430
16	3410	4720	14200	11500	11700	6700	7970	5300	2830	1560	1600	1330
17	3480	4080	12700	10200	14300	8800	5910	4550	2070	1580	1700	1300
18	3460	4360	9710	9700	14300	13600	6280	4540	1910	1690	1500	1810
19	3350	3330	11400	9120	14200	16500	7100	4030	2300	1800	1470	1100
20	3330	4410	9390	8420	14500	19900	6210	3120	3250	2390	1610	1140
21	3360	3990	8890	8160	14700	24600	4940	3900	2600	2180	1770	1280
22	3110	3380	11500	9370	16700	30600	5260	3940	2370	3160	1140	1260
23	3270	4750	10600	11000	19500	38500	5500	4350	1680	1990	1480	1250
24	3750	5340	10600	12900	20000	45500	5000	4260	1610	2980	1440	1230
25	3070	4060	9020	13300	20400	47000	4740	5070	2000	3600	1410	1330
26	2730	3890	7380	12700	21500	42000	4880	5210	1620	4000	1440	1900
27	2990	5650	7480	14600	20600	32600	4910	4680	1490	3230	1590	3510
28	2740	5200	6020	14200	17400	18100	5030	4700	1660	2030	1810	3550
29	2720	3340	6120	13500	---	11500	5120	3610	1510	1810	1260	2800
30	2790	4800	6920	13400	---	10800	4410	3330	1520	1940	1790	2100
31	2410	---	6520	14900	---	10800	---	3430	---	1900	1310	---
TOTAL	173590	120610	251660	437870	383890	512870	209750	142030	77410	61600	51020	48330
MEAN	5600	4020	8118	14120	13710	16540	6992	4582	2580	1987	1646	1611
MAX	14400	5680	14600	25000	21500	47000	10800	5790	3930	4000	2400	3550
MIN	2410	2150	2890	8160	7250	6700	4410	3120	1490	1390	1140	1080
CFSM	.98	.70	1.41	2.46	2.39	2.88	1.22	.80	.45	.35	.29	.28
IN.	1.13	.78	1.63	2.84	2.49	3.32	1.36	.92	.50	.40	.33	.31
CAL YR 1989	TOTAL	1971520	MEAN	5401	MAX	17200	MIN	1360	CFSM	.94	IN	12.78
WTR YR 1990	TOTAL	2470630	MEAN	6769	MAX	47000	MIN	1080	CFSM	1.18	IN	16.01

APALACHICOLA RIVER BASIN
02353000 FLINT RIVER AT NEWTON, GA.--Continued
WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to June 1979, May 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LINITY WAT.DIS FET LAB CACO3 (MG/L)
NOV 22...	0800	3370	128	131	7.5	7.5	15.5	8.6	86	56	46	44
JAN 24...	1300	12900	80	87	7.3	7.3	12.5	10.3	97	26	22	25
MAR 29...	1330	11200	88	95	7.4	7.5	17.5	7.7	80	40	33	34
MAY 16...	1300	5780	97	100	7.6	7.7	24.0	6.9	82	45	37	35
JUL 11...	1345	1390	152	163	8.1	7.8	29.5	7.5	99	71	59	61
AUG 22...	1545	1050	132	129	8.0	7.8	29.5	7.7	101	54	45	47

DATE	TUR- BID- ITY (NTU)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARBON- DISSOLVED LAB MG/L AS CACO3	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
NOV 22...	5.0	74	44	42	0	15	1.2	8.4	29	0.6	1.4
JAN 24...	13	230	450	28	3	9.5	1.0	4.8	26	0.4	1.3
MAR 29...	25	K63	K160	36	2	13	0.81	3.1	15	0.2	1.3
MAY 16...	6.8	47	740	36	1	12	1.4	6.3	27	0.5	1.1
JUL 11...	2.1	210	64	59	0	21	1.6	8.6	24	0.5	1.1
AUG 22...	2.2	20	54	38	0	13	1.3	8.6	32	0.6	1.3

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
NOV 22...	7.0	7.4	0.10	11	78	83	710	0.11
JAN 24...	5.0	5.3	<0.10	8.8	58	52	2020	0.08
MAR 29...	3.7	3.5	<0.10	6.8	58	54	1750	0.08
MAY 16...	4.7	5.6	<0.10	8.7	59	65	921	0.08
JUL 11...	5.4	8.5	<0.10	6.7	98	91	368	0.13
AUG 22...	5.2	8.7	<0.10	7.7	70	74	198	0.09

APALACHICOLA RIVER BASIN

02353000 FLINT RIVER AT NEWTON, GA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

		NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
DATE										
NOV 22...		<0.010	0.600	0.030	0.030	0.27	0.30	0.080	0.060	0.060
JAN 24...		0.010	0.540	0.040	0.040	0.26	0.30	0.060	0.030	0.030
MAR 29...		<0.010	0.400	0.040	0.030	0.56	0.60	0.070	0.020	0.010
MAY 16...		0.010	0.500	0.030	0.020	0.37	0.40	0.070	0.040	<0.010
JUL 11...		0.030	0.600	0.030	0.020	0.37	0.40	0.100	0.060	0.060
AUG 22...		0.010	0.300	0.020	<0.010	0.28	0.30	0.060	0.020	<0.010
DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
NOV 22...	40	<1	22	<0.5	1.0	<1	<3	2	530	1
JAN 24...	100	<1	21	<0.5	<1.0	1	4	<10	390	<10
MAY 16...	40	<1	20	<0.5	<1.0	<1	<3	1	510	<1
AUG 22...	30	<1	15	<0.5	<1.0	1	<3	3	41	<1
DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 22...	5	14	--	<10	2	<1	<1.0	31	<6	5
JAN 24...	<4	18	--	<10	<10	<1	<1.0	21	<6	<3
MAY 16...	<4	5	0.1	<10	3	<1	<1.0	28	<6	3
AUG 22...	<4	11	<0.1	<10	1	<1	<1.0	30	<6	10

APALACHICOLA RIVER BASIN

02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT					
26...	1201	2480	19.0	5	33
26...	1206	2480	19.0	4	27
NOV					
22...	0805	3370	15.5	4	36
DEC					
01...	1354	5320	14.0	7	101
01...	1359	5320	14.0	6	86
JAN					
24...	1305	12900	12.5	13	453
FEB					
16...	1514	11800	18.0	7	223
16...	1519	11800	18.0	6	192
MAR					
18...	1738	14900	16.0	31	1240
18...	1743	14900	16.0	42	1690
21...	1328	25000	15.0	80	5400
22...	1353	31000	17.0	113	9450
22...	1358	31000	17.0	101	8450
24...	1302	45700	17.0	36	4440
24...	1307	45700	17.0	46	5680
27...	0940	34000	13.5	41	3770
27...	0945	34000	13.5	32	2940
29...	1335	11200	17.5	14	423
APR					
02...	0930	9910	16.0	7	187
02...	0935	9910	16.0	9	241
11...	1005	3130	13.0	28	236
11...	1010	3130	13.0	27	228
MAY					
11...	1446	4760	23.5	31	399
11...	1451	4760	23.5	30	386
16...	1305	5780	24.0	10	156
JUN					
15...	1416	2930	28.0	13	103
15...	1421	2930	28.0	13	103
JUL					
11...	1350	1390	29.5	5	19
26...	1324	2770	29.0	10	75
26...	1329	2770	29.0	10	75
AUG					
22...	1550	1050	29.5	6	17
SEP					
24...	1424	1230	27.0	8	27
24...	1429	1230	27.0	8	27

APALACHICOLA RIVER BASIN

02353000 FLINT RIVER AT NEWTON, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV			
22...	0805	3370	87
JAN			
24...	1305	12900	91
MAR			
21...	1323	25000	75
24...	1302	45700	79
29...	1335	11200	98
MAY			
16...	1305	5780	84
JUL			
11...	1350	1390	55
AUG			
22...	1550	1050	76

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
OCT											
26...	1307	2530	<1	<1	<1	20	88	100	100	--	--
26...	1308	2530	<1	<1	1	14	45	86	97	99	100
26...	1309	2530	<1	<1	<1	6	28	68	95	100	--
26...	1310	2530	<1	<1	1	2	17	69	96	100	--
MAR											
18...	1630	14800	<1	<1	3	11	48	86	93	96	100

APALACHICOLA RIVER BASIN

02353400 PACHITLA CREEK NEAR EDISON, GA.

LOCATION.--Lat 31°33'17", long 84°40'43", Calhoun County, Hydrologic Unit 03130009, on downstream side of bridge pier on State Highway 37, 2.2 mi upstream from Neals Creek, 3.6 mi east of Edison, and 8.5 mi upstream from mouth.

DRAINAGE AREA.--188 mi².

PERIOD OF RECORD.--Annual maximum, water years 1950-59 and occasional low-flow measurements, 1951-58, 1972-81. June 1959 to September 1971, March 1988 to current year.

REVISED RECORDS.--WDR GA-71-1: 1960 (M).

GAGE.--Water-stage recorder. Datum of gage is 212.64 ft above National Geodetic Vertical Datum of 1929. Mar. 17, 1949 to Mar. 16, 1955, crest-stage at same site and datum. Mar. 17, 1955 to June 9, 1959, crest-stage gage at site 200 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--14 years (water years 1959-71, 1989-90), 245 ft³/s, 17.70 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.34 ft Jan. 7, 1962 (discharge not determined). Minimum discharge, 35 ft³/s Sept. 16, Oct. 6, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	1300	*2,330	*7.38	Jan. 8	1100	1,700	6.91
Jan. 1	2100	1,850	7.03	Mar. 18	1300	1,580	6.81

Minimum discharge, 49 ft³/s, Aug. 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	461	127	216	1250	337	305	351	162	92	60	59	99
2	1970	133	180	1390	323	302	295	146	104	61	57	89
3	1290	156	172	762	322	361	330	135	146	181	55	80
4	657	168	166	517	335	478	319	122	148	244	64	73
5	393	150	161	452	330	378	254	114	156	177	56	67
6	280	142	161	483	306	319	233	170	151	124	55	64
7	213	141	168	853	287	294	304	173	120	98	55	62
8	186	225	253	1570	286	280	380	148	126	85	54	60
9	176	757	529	1160	283	268	302	162	203	117	64	63
10	161	961	782	761	310	265	265	260	417	179	73	65
11	151	663	540	549	466	262	346	436	491	123	69	65
12	148	342	374	473	543	253	306	291	365	144	68	75
13	145	214	518	423	388	246	295	200	182	146	55	78
14	145	181	663	383	323	241	228	216	148	138	53	71
15	149	200	497	362	296	235	217	205	124	138	50	66
16	150	250	372	355	321	248	213	173	107	117	50	79
17	150	376	325	356	504	513	203	151	176	95	51	74
18	167	287	303	341	678	1280	190	198	140	88	58	66
19	209	198	418	335	567	909	179	183	127	115	69	61
20	196	177	542	329	605	546	175	151	105	307	66	59
21	163	170	599	414	558	380	177	140	89	609	65	59
22	150	169	451	729	474	279	175	200	81	294	61	57
23	148	235	333	712	520	285	170	265	80	146	78	57
24	174	386	270	496	520	283	166	208	86	115	191	64
25	156	309	237	424	411	275	160	166	82	100	322	61
26	143	210	245	456	350	266	153	144	75	87	153	63
27	134	190	248	489	321	250	142	126	70	78	95	66
28	128	188	238	399	312	239	163	116	64	74	81	63
29	126	216	228	355	---	235	220	108	62	72	76	61
30	124	282	222	354	---	273	190	101	61	67	71	68
31	125	---	348	360	---	358	---	93	---	63	76	---
TOTAL	8968	8203	10759	18292	11276	11106	7101	5463	4378	4442	2450	2035
MEAN	289	273	347	590	403	358	237	176	146	143	79.0	67.8
MAX	1970	961	782	1570	678	1280	380	436	491	609	322	99
MIN	124	127	161	329	283	235	142	93	61	60	50	57
CFSM	1.54	1.45	1.85	3.14	2.14	1.90	1.26	.94	.78	.76	.42	.36
IN.	1.77	1.62	2.13	3.62	2.23	2.20	1.41	1.08	.87	.88	.48	.40
CAL YR 1989	TOTAL	85265	MEAN	234	MAX	1970	MIN	39	CFSM	1.25	IN	16.87
WTR YR 1990	TOTAL	94473	MEAN	259	MAX	1970	MIN	50	CFSM	1.38	IN	18.69

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.

LOCATION.--Lat 31°22'58", long 84°32'52", Baker County, Hydrologic Unit 03130009, on downstream end of left bank pier of bridge on State Highway 216 at Milford, 2.2 mi upstream from Alligator Creek, and 5.5 mi upstream from Chickasawhatchee Creek.
DRAINAGE AREA.--620 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1905 to December 1907, October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 150.3 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Aug. 29, 1905 to Dec. 31, 1907, nonrecording gage at several sites within 450 ft of present site at various datums. Oct. 1, 1939 to Nov. 10, 1941, nonrecording gage at site 100 ft downstream at present datum.

REMARKS.--No estimated daily discharges. Records good. Discharges during growing season affected by undetermined amount of irrigation withdrawal. Moderate diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--53 years (water years 1906-07, 1940-90), 774 ft³/s, 16.95 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,900 ft³/s, Jan. 27, 1978, gage height, 15.08 ft; minimum discharge, 45 ft³/s, July 19, 23, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1916 reached a stage of 17.2 ft, from information by local resident, discharge, 15,500 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 3	1600	3,370	6.58	Jan. 9	2200	*5,000	*8.70

Minimum discharge, 98 ft³/s, Aug. 16, gage height, 0.41.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	557	299	561	1410	1080	981	930	451	258	133	135	171
2	874	302	558	2200	1040	958	959	390	264	130	130	209
3	1460	313	511	3220	1010	999	963	347	281	169	134	198
4	2470	343	472	3020	988	1040	962	321	328	345	126	179
5	2390	365	444	2430	1010	1100	963	311	344	401	130	161
6	1700	356	428	1930	982	1120	912	333	354	321	120	141
7	971	346	424	1940	1250	1050	859	401	355	255	115	136
8	617	364	454	2810	1230	955	877	430	306	213	116	137
9	491	606	646	4490	892	865	889	430	318	224	138	137
10	454	912	843	4510	903	821	858	487	484	446	154	134
11	421	1250	1020	3350	1340	792	865	613	754	474	160	139
12	390	1470	1210	2560	1450	776	953	723	722	323	154	139
13	372	1400	1310	1980	1210	750	900	740	691	319	150	146
14	367	972	1340	1600	1200	730	896	640	421	318	130	155
15	365	644	1310	1380	1080	720	857	554	321	308	118	160
16	365	579	1210	1250	996	699	719	514	279	294	100	157
17	365	698	1080	1180	1060	947	634	466	278	258	101	171
18	366	709	991	1130	1250	1700	579	487	331	228	112	172
19	390	675	940	1090	1610	2200	524	515	304	226	125	161
20	421	594	1170	1060	1950	2690	491	464	304	309	138	155
21	419	524	1240	1130	2120	2520	464	426	262	502	136	150
22	389	482	1260	1340	1980	1870	450	441	216	725	137	145
23	369	492	1260	1540	1860	1300	452	505	206	782	150	138
24	353	569	1140	1760	1770	1040	444	545	204	659	184	134
25	364	639	949	1830	1640	951	430	521	199	380	286	139
26	344	669	823	1680	1420	890	410	442	188	265	365	140
27	332	600	772	1470	1210	836	387	380	181	224	292	142
28	319	544	749	1370	1040	796	379	348	156	191	215	151
29	310	522	729	1280	---	763	417	322	136	169	179	151
30	304	534	737	1220	---	756	478	298	129	155	169	150
31	302	---	818	1150	---	832	---	281	---	143	161	---
TOTAL	19611	18772	27399	60310	36571	34447	20901	14126	9574	9889	4860	4598
MEAN	633	626	884	1945	1306	1111	697	456	319	319	157	153
MAX	2470	1470	1340	4510	2120	2690	963	740	754	782	365	209
MIN	302	299	424	1060	892	699	379	281	129	130	100	134
CFSM	1.02	1.01	1.43	3.14	2.11	1.79	1.12	.74	.52	.52	.25	.25
IN.	1.18	1.13	1.64	3.62	2.19	2.07	1.25	.85	.57	.59	.29	.28
CAL YR 1989	TOTAL	236189	MEAN	647	MAX	2860	MIN	131	CFSM	1.04	IN	14.17
WTR YR 1990	TOTAL	261058	MEAN	715	MAX	4510	MIN	100	CFSM	1.15	IN	15.66

APALACHICOLA RIVER BASIN

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.—Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	557	299	561	1410	1080	981	930	451	258	133	135	171
2	874	302	558	2200	1040	958	959	390	264	130	130	209
3	1460	313	511	3220	1010	999	963	347	281	169	134	198
4	2470	343	472	3020	988	1040	962	321	328	345	126	179
5	2390	365	444	2430	1010	1100	963	311	344	401	130	161
6	1700	356	428	1930	982	1120	912	333	354	321	120	141
7	971	346	424	1940	1250	1050	859	401	355	255	115	136
8	617	364	454	2810	1230	955	877	430	306	213	116	137
9	491	606	646	4490	892	865	889	430	318	224	138	137
10	454	912	843	4510	903	821	858	487	484	446	154	134
11	421	1250	1020	3350	1340	792	865	613	754	474	160	139
12	390	1470	1210	2560	1450	776	953	723	722	323	154	139
13	372	1400	1310	1980	1210	750	900	740	691	319	150	146
14	367	972	1340	1600	1200	730	896	640	421	318	130	155
15	365	644	1310	1380	1080	720	857	554	321	308	118	160
16	365	579	1210	1250	996	699	719	514	279	294	100	157
17	365	698	1080	1180	1060	947	634	466	278	258	101	171
18	366	709	991	1130	1250	1700	579	487	331	228	112	172
19	390	675	940	1090	1610	2200	524	515	304	226	125	161
20	421	594	1170	1060	1950	2690	491	464	304	309	138	155
21	419	524	1240	1130	2120	2520	464	426	262	502	136	150
22	389	482	1260	1340	1980	1870	450	441	216	725	137	145
23	369	492	1260	1540	1860	1300	452	505	206	782	150	138
24	353	569	1140	1760	1770	1040	444	545	204	659	184	134
25	364	639	949	1830	1640	951	430	521	199	380	286	139
26	344	669	823	1680	1420	890	410	442	188	265	365	140
27	332	600	772	1470	1210	836	387	380	181	224	292	142
28	319	544	749	1370	1040	796	379	348	156	191	215	151
29	310	522	729	1280	—	763	417	322	136	169	179	151
30	304	534	737	1220	—	756	478	298	129	155	169	150
31	302	—	818	1150	—	832	—	281	—	143	161	—
TOTAL	19611	18772	27399	60310	36571	34447	20901	14126	9574	9889	4860	4598
MEAN	633	626	884	1945	1306	1111	697	456	319	319	157	153
MAX	2470	1470	1340	4510	2120	2690	963	740	754	782	365	209
MIN	302	299	424	1060	892	699	379	281	129	130	100	134
CFSM	1.02	1.01	1.43	3.14	2.11	1.79	1.12	.74	.52	.52	.25	.25
IN.	1.18	1.13	1.64	3.62	2.19	2.07	1.25	.85	.57	.59	.29	.28
CAL YR 1989	TOTAL	236189	MEAN	647	MAX	2860	MIN	131	CFSM	1.04	IN	14.17
WTR YR 1990	TOTAL	261058	MEAN	715	MAX	4510	MIN	100	CFSM	1.15	IN	15.66

APALACHICOLA RIVER BASIN

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1970 to current year.

REMARKS.--Laboratory analyses with the analyzing agency code 80020 are provided by the U.S. Geological Survey. Laboratory analyses with the analyzing agency code 81341 are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
FEB 05...	1500	80020	985	103	82	7.3	7.5	15.5	--	8.6	86
JUL 17...	1415	81341	253	--	67	7.3	7.3	28.5	34.0	7.3	--
AUG 27...	1400	80020	275	43	53	7.1	7.0	27.0	--	6.5	81
SEP 26...	1430	81341	140	68	69	7.1	7.3	22.5	28.0	8.8	103

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CaCO3)	HARD- NESS NONCARB DISSOLV LAB AS CaCO3 (MG/L)
FEB 05...	80020	60	6.3	--	--	33	5
JUL 17...	81341	75	12	0.4	40	--	--
AUG 27...	80020	65	11	--	--	18	5
SEP 26...	81341	10	4.0	0.3	<20	--	--

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CaCO3
FEB 05...	80020	11	1.3	2.3	13	0.2	0.80	--
JUL 17...	81341	--	--	--	--	--	--	21
AUG 27...	80020	5.6	1.0	2.3	20	0.2	1.1	--
SEP 26...	81341	--	--	--	--	--	--	10

APALACHICOLA RIVER BASIN

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	ALKA- LITY WAT.DIS FET LAB CACO3 (MG/L)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
FEB 05...	80020	28	<1.0	4.5	0.10	5.1	64	--	--	--
AUG 27...	80020	13	3.3	5.1	<0.10	9.2	47	--	--	--

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)
FEB 05...	80020	0.500	0.500	0.030	0.030	0.47	0.37
JUL 17...	81341	0.750	--	<0.030	--	--	--
AUG 27...	80020	0.400	0.400	0.020	0.030	0.48	0.27
SEP 26...	81341	0.920	--	0.050	--	--	--

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
FEB 05...	80020	0.50	0.40	1.0	0.90	0.030	<0.010	8.5
JUL 17...	81341	--	--	--	--	0.060	--	2.4
AUG 27...	80020	0.50	0.30	0.90	0.70	0.050	0.030	7.1
SEP 26...	81341	--	--	--	--	0.040	--	1.7

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
FEB 05...	80020	50	<1	<1	<1.0	<5	<10	250
AUG 27...	80020	50	<1	<1	<1.0	<1	1	460

APALACHICOLA RIVER BASIN

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, DIS- SOLVED (UG/L AS ZN)
FEB 05...	80020	1	<10	44	<0.10	<0.1	<1	<3
AUG 27...	80020	2	1	38	<0.10	<0.1	<1	<3

APALACHICOLA RIVER BASIN

02356000 FLINT RIVER AT BAINBRIDGE, GA.

LOCATION.--Lat 30°54'41", long 84°34'48", Decatur County, Hydrologic Unit 03130008, on downstream side of bridge on U.S. Highway 27 (Business Route), 0.2 mi downstream from Seaboard Coast Line Railroad bridge, and 29.2 mi upstream from Jim Woodruff Dam, and at mile 29.0.

DRAINAGE AREA.--7,570 mi², approximately.

PERIOD OF RECORD.--Discharge: October 1907 to December 1913, October 1928 to September 1971. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

Chemical analyses: February 1968 to September 1973.

Annual peaks: Water years 1972-76, 1978-88.

Continuous gage-height record: August 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 58.06 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 31, 1913, nonrecording gage at same site at datum 0.3 ft higher. Oct. 1, 1928 to Jan. 14, 1929, nonrecording gage at present site and datum. Auxiliary water-stage recorder at site 6.4 mi upstream Jan. 15, 1957 to September 1971.

REMARKS.--Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft; and at Warwick Reservoir since 1930, capacity, about 35,000 acre-ft. Normal operation of powerplants does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.--49 years (water years 1908-13, 1929-71), 8,740 ft³/s, 15.68 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,200 ft³/s, Mar. 21, 1929, gage height, 37.73 ft; minimum daily discharge, 1,340 ft³/s, Sept. 25, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1893, 40.9 ft, present datum, Jan. 24, 1925, discharge 101,000 ft³/s, from rating curve extended above 70,000 ft³/s on basis of slope-conveyance studies.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43,900 ft³/s, Mar. 25, gage height, 26.80 ft.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.94	18.22	19.31	19.60	21.32	21.11	20.46	19.21	19.47	18.19	18.56	18.76
2	19.47	18.26	19.51	20.24	21.43	20.29	20.46	19.58	19.51	17.80	18.55	18.52
3	19.79	18.52	19.27	20.74	21.44	20.21	20.56	19.74	19.30	17.87	18.60	18.32
4	19.78	18.69	18.97	21.18	21.16	19.80	20.29	19.86	19.15	18.00	18.54	18.43
5	19.80	18.21	19.17	21.23	20.21	19.52	20.19	19.85	19.12	18.24	18.35	18.53
6	20.01	17.70	19.33	21.06	19.80	19.80	20.07	19.48	19.11	18.43	18.19	18.65
7	20.37	17.81	19.46	21.17	19.91	19.96	20.01	19.02	19.04	18.53	18.19	18.77
8	20.62	18.17	19.55	21.62	20.14	20.26	19.97	19.07	18.94	18.22	18.30	18.79
9	20.69	18.98	19.61	22.30	20.26	20.23	19.79	19.06	18.86	17.90	18.30	18.51
10	20.59	19.65	19.78	23.17	20.10	20.10	19.91	19.32	18.63	17.96	18.33	18.31
11	19.96	19.78	19.85	23.63	19.94	19.77	20.14	19.30	18.23	18.13	18.33	18.45
12	19.36	19.62	20.05	23.34	20.23	19.29	20.12	19.43	18.21	18.33	18.07	18.52
13	19.04	19.54	19.77	22.67	20.38	19.38	19.98	19.20	18.19	18.47	17.91	18.60
14	18.80	19.62	20.48	22.32	20.52	19.43	19.94	18.99	18.37	18.26	18.03	18.68
15	18.73	19.53	20.56	21.96	20.32	19.69	19.66	19.18	18.62	17.98	18.13	18.64
16	18.75	19.62	20.59	21.33	20.54	19.86	19.44	19.35	18.86	17.99	18.20	18.39
17	18.93	19.47	20.45	20.58	20.78	19.69	19.46	19.46	18.40	18.12	18.30	18.07
18	19.27	19.25	19.97	20.35	20.93	20.08	19.35	19.49	17.84	18.04	18.39	18.01
19	19.52	18.97	19.80	20.29	20.97	21.03	19.32	19.54	17.75	18.33	18.11	18.00
20	19.66	18.73	19.94	20.15	21.09	21.69	19.43	19.25	17.97	18.61	17.85	18.02
21	19.65	19.00	19.87	19.93	21.22	22.40	19.29	18.92	18.37	18.77	18.01	18.09
22	19.35	19.14	20.29	19.75	21.44	23.29	18.99	19.01	18.61	18.63	18.17	18.14
23	19.14	19.38	20.43	20.25	22.02	24.32	18.99	19.12	18.67	18.59	18.34	17.85
24	19.26	19.41	20.12	20.87	22.40	25.52	19.05	19.35	18.14	18.61	18.47	17.59
25	19.31	19.49	19.59	21.05	22.34	26.48	19.15	19.53	17.59	18.75	18.57	17.80
26	19.32	19.35	19.50	20.99	22.34	26.66	19.32	19.82	17.52	18.76	18.28	18.02
27	19.30	19.04	19.50	20.97	22.38	25.82	19.61	19.90	17.52	18.86	18.06	18.31
28	19.22	19.18	19.54	21.11	22.09	23.67	19.79	19.54	17.90	18.86	18.21	18.60
29	18.70	19.17	19.65	20.95	---	21.23	19.42	19.55	18.32	18.61	18.36	18.73
30	18.26	19.18	19.74	20.84	---	20.64	19.03	19.46	18.59	18.41	18.52	18.58
31	18.24	---	19.44	21.02	---	20.57	---	19.47	---	18.53	18.67	---
MEAN	19.41	19.02	19.78	21.18	20.99	21.35	19.71	19.39	18.49	18.35	18.29	18.36
MAX	20.69	19.78	20.59	23.63	22.40	26.66	20.56	19.90	19.51	18.86	18.67	18.79
MIN	18.24	17.70	18.97	19.60	19.80	19.29	18.99	18.92	17.52	17.80	17.85	17.59

CAL YR 1989 MEAN 19.20 MAX 21.24 MIN 17.61
WTR YR 1990 MEAN 19.52 MAX 26.66 MIN 17.52

APALACHICOLA RIVER BASIN

02356015 FLINT RIVER BELOW BAINBRIDGE, GA.

LOCATION.--Lat 30°53'34", long 84°36'38", Decatur County, Hydrologic Unit 03130008, at Bainbridge, 0.8 mi downstream from State Docks, and at mile 26.5.

DRAINAGE AREA.--7,570 mi², approximately.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	GAGE HEIGHT (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 18...	1000	19.22	146	143	7.6	7.5	22.0	19.0	7.0	81
NOV 15...	1210	19.51	100	97	7.2	7.2	18.0	27.0	8.6	92
DEC 20...	1225	19.97	82	74	7.2	7.1	7.0	8.5	11.2	93
JAN 17...	1155	20.58	112	113	7.2	7.3	10.0	22.5	10.0	89
FEB 21...	1145	21.25	87	84	7.0	7.1	15.0	17.0	9.2	91
MAR 27...	1145	25.88	52	49	6.9	6.9	16.5	18.0	8.0	82
APR 18...	1115	14.40	128	132	7.3	7.5	20.0	25.0	7.9	88
MAY 16...	1200	19.37	117	123	7.1	7.6	25.0	31.0	7.0	86
JUN 20...	1215	17.94	170	186	7.5	7.8	28.0	36.0	8.1	105
JUL 17...	1150	18.11	170	--	7.6	7.9	28.0	33.5	8.4	108
AUG 22...	1145	18.18	164	170	7.5	8.1	28.5	31.5	7.4	97
SEP 26...	1200	17.98	168	174	7.5	7.9	26.0	27.0	8.7	109

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 18...	50	10	21	1.3	80	50	2
NOV 15...	60	9.0	33	1.2	40	27	3
DEC 20...	140	31	49	1.7	1100	18	14
JAN 17...	40	23	29	0.6	490	37	9
FEB 21...	110	26	17	1.6	1300	24	9
MAR 27...	140	66	32	0.8	790	13	19
APR 18...	60	9.0	17	0.8	70	45	5
MAY 16...	30	8.0	12	0.2	20	40	5
JUN 20...	30	3.0	7	0.8	170	61	9
JUL 17...	15	3.0	--	0.7	<20	68	<1
AUG 22...	15	3.0	--	1.8	50	62	3
SEP 26...	20	2.0	--	1.0	20	64	4

APALACHICOLA RIVER BASIN

02356015 FLINT RIVER BELOW BAINBRIDGE, GA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO ₂ + NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	0.870	0.110	0.59	0.70	1.6	<0.020	--
NOV 15...	1.23	0.870	0.13	1.0	2.2	0.110	9.1
DEC 20...	0.550	0.160	0.25	0.41	0.96	<0.020	6.4
JAN 17...	0.450	0.180	0.27	0.45	0.90	0.090	7.4
FEB 21...	0.470	0.090	0.31	0.40	0.87	0.100	4.4
MAR 27...	0.230	0.030	0.17	0.20	0.43	0.240	8.5
APR 18...	1.14	0.380	0.28	0.66	1.8	0.110	3.7
MAY 16...	0.760	0.260	0.04	0.30	1.1	0.050	4.3
JUN 20...	1.10	0.210	0.19	0.40	1.5	0.050	3.4
JUL 17...	1.15	0.150	--	--	--	0.040	3.4
AUG 22...	0.790	0.140	--	--	--	0.080	3.4
SEP 26...	0.780	0.070	--	--	--	0.060	3.5

APALACHICOLA RIVER BASIN

02357000 SPRING CREEK NEAR IRON CITY, GA.

LOCATION.--Lat 31°02'23", long 84°44'18", Decatur County, Hydrologic Unit 03130010, on right bank 25 ft downstream from county bridge, 1.5 mi downstream from Aycock Creek, 1.5 mi upstream from Dry Creek, 5.0 mi north of Brinson, and 5.5 mi northeast of Iron City.

DRAINAGE AREA.--485 mi², approximately.

PERIOD OF RECORD.--November 1920 to June 1921, June 1937 to April 1971, water years 1972-76 (annual maximum), December 1976 to September 1978, June 1982 to current year. Monthly discharge only for November 1920 to June 1921, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 85.7 ft above National Geodetic Vertical Datum of 1929. Oct. 21, 1920 to June 30, 1921, nonrecording gage at site 125 ft upstream at different datum, June 11, 1937 to Oct. 17, 1952, nonrecording gage at site 125 ft upstream at present datum, Oct. 18, 1952 to April 1971, recording gage at same site and datum as present, May 1971 to Dec. 1976, nonrecording gage at same site and datum as present.

REMARKS.--No estimated daily discharges. Records good. Discharges during growing season affected by undetermined amount of irrigation withdrawal.

AVERAGE DISCHARGE.--42 years (water years 1938-70, 1978, 1983-90), 488 ft³/s, 13.66 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,700 ft³/s Apr. 12, 1975, gage height, 19.43 ft; maximum gage height 19.9 ft, Apr. 2, 1948; minimum discharge, 5.0 ft³/s, Aug. 14, 15, 18, and 19, 1986, and Aug. 22, 23, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	1900	3,070	13.32	Mar. 21	0700	2,140	11.85
Jan. 10	1400	*5,840	*15.64				

Minimum discharge, 5.0 ft³/s, Aug. 22,23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	209	126	260	1250	948	1030	703	315	121	37	15	33
2	300	123	255	1630	905	939	738	302	114	33	15	31
3	405	122	251	1940	869	885	753	277	117	32	15	28
4	611	121	241	2780	837	857	773	251	145	32	16	26
5	957	120	232	2640	793	856	735	233	144	38	36	24
6	974	119	222	1850	766	848	685	225	154	46	37	22
7	736	118	212	1670	754	823	639	216	150	46	32	22
8	513	127	220	2860	734	771	594	211	133	44	26	20
9	397	170	257	4580	705	715	574	209	120	41	22	19
10	352	202	277	5700	701	673	535	223	111	48	21	17
11	332	278	323	4910	736	641	587	227	105	46	19	16
12	305	354	384	3380	749	616	566	236	98	41	17	16
13	272	447	477	2350	794	593	541	244	101	38	15	16
14	248	486	527	1860	829	570	551	251	139	38	13	15
15	231	394	539	1540	814	546	560	243	130	38	10	15
16	220	311	551	1330	759	523	511	233	99	37	8.6	17
17	210	282	615	1190	749	607	465	219	84	33	8.0	18
18	216	280	659	1080	841	832	431	210	78	32	7.8	17
19	228	283	625	1020	1000	1240	400	200	76	33	7.0	15
20	219	307	646	972	1260	1890	373	252	70	31	6.4	15
21	209	325	754	968	1490	2080	350	404	62	33	5.7	14
22	201	313	883	1030	1550	1670	333	422	56	32	5.3	14
23	194	305	1000	1070	1770	1200	322	318	56	32	5.6	13
24	186	285	1040	1160	1840	974	326	262	60	30	38	12
25	176	271	912	1250	1710	854	403	230	60	26	63	12
26	165	274	772	1200	1580	769	422	207	57	24	63	11
27	157	289	693	1050	1400	703	360	186	52	22	49	11
28	151	290	645	977	1180	649	336	166	49	19	40	11
29	144	289	613	978	---	608	340	152	45	17	34	12
30	137	273	591	1010	---	592	320	142	41	15	33	13
31	132	---	682	1030	---	667	---	133	---	15	33	---
TOTAL	9787	7684	16358	58255	29063	27221	15226	7399	2827	1029	716.4	525
MEAN	316	256	528	1879	1038	878	508	239	94.2	33.2	23.1	17.5
MAX	974	486	1040	5700	1840	2080	773	422	154	48	63	33
MIN	132	118	212	968	701	523	320	133	41	15	5.3	11
CFSM	.65	.53	1.09	3.87	2.14	1.81	1.05	.49	.19	.07	.05	.04
IN.	.75	.59	1.25	4.47	2.23	2.09	1.17	.57	.22	.08	.05	.04
CAL YR 1989	TOTAL	171201.0	MEAN	469	MAX	3550	MIN	75	CFSM	.97	IN	13.13
WTR YR 1990	TOTAL	176090.4	MEAN	482	MAX	5700	MIN	5.3	CFSM	.99	IN	13.51

LAKES IN APALACHICOLA RIVER BASIN

02334400 LAKE SIDNEY LANIER NEAR BUFORD, GA.

LOCATION.--Lat 34°04'30", long 84°04'20", Forsyth County, Hydrologic Unit 03130001, at forebay of dam on Chattahoochee River, 2.5 mi upstream from bridge on State Highway 20, 4.5 mi northwest of Buford, Ga., and at mile 348.3.

DRAINAGE AREA.--1,040 mi², approximately.

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

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by a rolled-fill earth dam. Storage began in January 1956; dam completed in June 1957. Usable capacity, 1,686,000 acre-ft between elevations 1,035 ft and 1,085 ft. Dead storage, 868,000 acre-ft. Lake is used for flood control and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 2,205,200 acre-ft Apr. 14, 1964, elevation, 1,077.20 ft; minimum, after beginning operation, 1,329,300 acre-ft Dec. 23, 24, 1981, elevation, 1,052.66 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 2,121,800 acre-ft Mar. 20, elevation, 1,075.19 ft; minimum, 1,676,600 acre-ft Sept. 29, elevation, 1,063.39 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1069.98	1916200	-	-
Oct. 31.....	1071.22	1963800	+ 47600	+ 774
Nov. 30.....	1070.55	1938000	-25800	-434
Dec. 31.....	1071.02	1956000	+ 1800	+ 29
CAL YR 1989	-	-	+ 498300	+ 688
Jan. 31.....	1072.06	1996600	+ 40600	+ 660
Feb. 28.....	1071.22	1963800	-32800	-591
Mar. 31.....	1073.41	2050000	+ 86200	+ 1402
Apr. 30.....	1071.72	1983300	-66700	-1121
May 31.....	1071.57	1977400	-5900	-96
June 30.....	1069.89	1912800	-64600	-1086
July 31.....	1068.06	1844400	-68400	-1112
Aug. 31.....	1064.91	1729900	-114500	-1862
Sept. 30.....	1063.39	1676600	-53300	-896
WTR YR 1990	-	-	-239600	-331

LAKES IN APALACHICOLA RIVER BASIN--Continued

02339400 WEST POINT LAKE NEAR WEST POINT, GA.

LOCATION.--Lat 32°55'05", long 85°11'17", Troup County, Hydrologic Unit 03130002, at forebay of dam on Chattahoochee River, 2.3 mi upstream from Oseligee Creek, 3.0 mi north of West Point, Ga., 3.2 mi upstream from bridge on U.S. Highway 29, and at mile 201.4.

DRAINAGE AREA, 3,440 mi², approximately.

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by concrete gravity dam with earth dikes at either side. Spillway (crest elevation, 597 ft) is equipped with six tainter gates 50 ft wide by 41 ft high. Storage began Oct. 16, 1974; lake reached maximum power pool, 635 ft, on June 10, 1975. Total capacity at elevation, 641 ft; maximum flood control pool, 774,800 acre-ft. Capacity at elevation, 635 ft, maximum power pool, 604,500 acre-ft. Dead storage below elevation 620 ft, minimum power pool, 298,400 acre-ft. Lake is used for flood control and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 691,000 acre-ft March 19, 1990, elevation, 638.18 ft; minimum, since first filling, 295,200 acre-ft, Nov. 8, 1985, elevation, 619.80 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 691,000 acre-ft Mar. 19, elevation, 638.18 ft; minimum, 293,500 acre-ft Jan. 6, elevation, 622.69 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	634.29	514000	-	-
Oct. 31.....	634.67	522800	+ 8800	+ 143
Nov. 30.....	632.10	465400	-57400	-965
Dec. 31.....	625.60	340800	-124600	-2026
CAL YR 1989	-	-	+ 17900	+ 25
Jan. 31.....	630.88	439900	+ 99100	+ 1612
Feb. 28.....	630.20	426000	-13900	-250
Mar. 31.....	632.32	470200	+ 44200	+ 719
Apr. 30.....	635.61	545100	+ 74900	+ 1259
May 31.....	635.74	548200	+ 3100	+ 50
June 30.....	633.74	501500	-46700	-785
July 31.....	631.00	442300	-59200	-963
Aug. 31.....	629.67	415500	-26800	-436
Sept. 30.....	628.57	394300	-21200	-356
WTR YR 1990	-	-	-119700	-165

LAKES IN APALACHICOLA RIVER BASIN--Continued

02341000 LAKE HARDING NEAR COLUMBUS, GA.

LOCATION.--Lat 32°39'46", long 85°05'27", Harris County, Hydrologic Unit 03130002, at forebay of dam on Chattahoochee River, 3.3 mi upstream from Mulberry Creek, 15 mi northwest of Columbus, Ga., and at mile 178.0.

DRAINAGE AREA.--4,240 mi², approximately.

PERIOD OF RECORD.--October 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company).

REMARKS.--Reservoir is formed by concrete gravity dam with earth fill abutments. Spillway (crest elevation, 500.0 ft) is equipped with 19 tainter gates 25 ft wide by 21 ft high and two trash gates 11 ft wide by 9 ft high. Storage began in 1926; water in reservoir first reached minimum pool elevation in 1926. Total capacity at elevation 521.0 ft, top of gates, is 181,000 acre-ft, of which 136,000 acre-ft is usable storage. Reservoir is used for power development.

Capacity curve and month-end elevations furnished by Georgia Power Company.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

Date	Elevation (feet)*	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	520.1	176000	-	-
Oct. 31.....	519.7	173000	-3000	-49
Nov. 30.....	513.5	140000	-33000	-555
Dec. 31.....	509.1	120000	-20000	-325
CAL YR 1989	-	-	-55000	-76
Jan. 31.....	509.1	120000	0	0
Feb. 28.....	519.7	173000	+53000	+954
Mar. 31.....	519.4	171000	-2000	-33
Apr. 30.....	520.1	176000	+5000	+84
May 31.....	519.9	174000	-2000	-33
June 30.....	519.1	170000	-4000	-67
July 31.....	519.8	174000	+4000	+65
Aug. 31.....	519.9	174000	0	0
Sept. 30.....	519.8	174000	0	0
WTR YR 1990	-	-	-2000	-3

*Elevation at 0700 on day following that shown in first column.

LAKES IN APALACHICOLA RIVER BASIN--Continued

02343240 WALTER F. GEORGE LAKE NEAR FORT GAINES, GA.

LOCATION.--Lat 31°37'27", long 85°04'03", Clay County, Hydrologic Unit 03130003, at forebay of dam on Chattahoochee River, 1.6 mi upstream from bridge on State Highway 37, 1 mi north of Ft. Gaines, Ga., and at mile 75.0.

DRAINAGE AREA.--7,460 mi², approximately.

PERIOD OF RECORD.--May 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Reservoir is formed by concrete gravity dam and navigation lock with earth dikes on either side. The nonoverflow section at the dam includes a powerhouse. Filling began in May 1962. Power operations commenced on Mar. 13, 1963. The spillway (crest elevation, 163.0 ft) is equipped with 14 tainter gates 42 ft wide by 29 ft high. Total capacity at elevation 190.0 ft, full summer pool, 934,400 acre-ft, of which 244,400 acre-ft between elevations 190.0 and 184.0 ft, minimum pool, is controlled storage. Lake is used for navigation and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 1,160,900 acre-ft Mar. 19, 1990, elevation, 194.60 ft; minimum, after first filling, 660,400 acre-ft Apr. 23, 1965, elevation, 183.17 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 1,160,900 acre-ft Mar. 19, elevation, 194.60 ft; minimum, 722,000 acre-ft July 3, elevation, 184.86 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	186.12	770500	-	-
Oct. 31.....	188.76	879700	+ 109200	+ 1776
Nov. 30.....	189.33	904700	+ 25000	+ 420
Dec. 31.....	189.24	900700	-4000	-65
CAL YR 1989	-	-	+ 156600	+ 216
Jan. 31.....	187.64	832100	-68600	-1116
Feb. 28.....	187.55	828400	-3700	-67
Mar. 31.....	188.62	873700	+ 45300	+ 737
Apr. 30.....	188.33	861200	-12500	-210
May 31.....	189.20	898900	+ 37700	+ 613
June 30.....	185.04	728700	-170200	-2860
July 31.....	186.55	787600	+ 58900	+ 958
Aug. 31.....	186.39	781300	-6300	-102
Sept. 30.....	185.73	755300	-26000	-437
WTR YR 1990	-	-	-15200	-21

LAKES IN APALACHICOLA RIVER BASIN--Continued

02357500 LAKE SEMINOLE NEAR CHATTAHOOCHEE, FL.

LOCATION.--Lat 30°42'33", long 84°51'45", Gadsden County, Fla., Hydrologic Unit 03130004, on right upstream lock wall of Jim Woodruff Dam on Chattahoochee River, 0.6 mi upstream from bridge on U.S. Highway 90, and 1.5 mi northwest of Chattahoochee, Fla.

DRAINAGE AREA.--17,100 mi², approximately.

PERIOD OF RECORD.--October 1954 to current year. Prior to October 1959, published as Jim Woodruff Reservoir at Chattahoochee.

REVISIONS.--WSP 1554: 1955-57.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 22, 1957, non-recording gage at same site at datum 53.96 ft higher; gage readings have been reduced to elevation above mean sea level.

REMARKS.--Lake is formed by earthfill dam with concrete fixed-crest spillway, a center channel spillway with 16 vertical lift gates 40 ft long by 30.5 ft high, and a side channel navigation lock 82 ft wide. Gates closed on May 20, 1954; filling of pool accomplished in several stages between that date and Feb. 4, 1957, when the pool first reached normal operating level, 77.0 ft. Total capacity at elevation 77.0 ft, normal pool, is 367,300 acre-ft, of which 36,170 acre-ft between elevations 77.0 and 76.0 ft is used for pondage. Lake is used for navigation and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 433,000 acre-ft Apr. 7, 8, 1960, elevation, 78.66 ft; minimum after Feb. 4, 1957, 272,100 acre-ft Nov. 27, 1978, elevation 74.18.

EXTREMES FOR CURRENT YEAR: Maximum contents 396,500 acre-ft May 5, elevation, 77.75 ft; minimum, 315,800 acre-ft June 27, elevation 75.54 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	76.93	364800	-	-
Oct. 31.....	76.32	342700	-22100	-359
Nov. 30.....	77.23	376200	+ 33500	+ 563
Dec. 31.....	77.09	370800	-5400	-88
CAL YR 1989	-	-	+ 33600	+ 46
Jan. 31.....	77.62	391400	+ 20600	+ 335
Feb. 28.....	77.32	379700	-11700	-211
Mar. 31.....	77.49	386400	+ 6700	+ 109
Apr. 30.....	76.97	366200	-20200	-339
May 31.....	77.52	387500	+ 21300	+ 346
June 30.....	76.45	347400	-40100	-674
July 31.....	76.66	355000	+ 7600	+ 124
Aug. 31.....	77.00	367300	+ 12300	+ 200
Sept. 30.....	76.68	355700	-11600	-195
WTR YR 1990	-	-	-9100	-13

MOBILE RIVER BASIN

02380500 COOSAWATTEE RIVER NEAR ELLIJAY, GA.

LOCATION.--Lat 34°40'18", long 84°30'31", Gilmer County, Hydrologic Unit 03150102, on right bank 0.5 mi downstream from State Highway 5, 2 mi southwest of Ellijay, and 2.2 mi downstream from confluence of Cartecay and Ellijay Rivers.

DRAINAGE AREA.--236 mi².

PERIOD OF RECORD.--October 1938 to December 1949, June 1963 to current year. Occasional low-flow measurements 1959, 1961-62.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,216.04 ft above National Geodetic Vertical Datum of 1929. Prior to June 10, 1940, nonrecording gage at site 0.5 mi upstream at datum 8.04 ft higher.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--38 years (water years 1939-49, 1964-90), 512 ft³/s, 29.46 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,000 ft³/s, Oct. 4, 1964, gage height, 17.63 ft; minimum discharge, 65 ft³/s, Sept. 3, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1938, 20.7 ft, Mar. 19, 1951, from floodmark.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 16	0215	3,630	5.37	Feb. 16	0945	*15,200	*16.74
Feb. 10	1000	4,410	6.23	Mar. 17	0645	8,650	10.66

Minimum discharge, 172 ft³/s, Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3900	360	528	1430	1090	1240	1140	669	524	302	290	199
2	2420	358	520	930	1050	1870	1120	639	521	331	295	195
3	1480	353	510	790	1080	2260	1080	626	623	276	315	188
4	963	347	492	1030	1780	1670	1030	610	578	260	288	183
5	733	345	477	1060	1430	1430	988	682	496	252	367	179
6	635	457	471	1140	1200	1310	1000	605	467	246	312	177
7	576	480	472	1060	1160	1230	999	572	451	241	284	173
8	527	569	985	1350	1050	1360	908	550	434	232	276	181
9	489	648	827	1170	1230	1920	871	684	423	230	298	179
10	466	504	748	1000	3500	1860	925	1080	427	333	526	220
11	449	447	665	898	2310	1520	1030	763	404	402	324	200
12	432	421	1230	831	1650	1370	874	658	386	414	285	221
13	419	403	1110	765	1380	1280	831	667	382	999	287	357
14	408	423	862	724	1240	1220	816	614	382	1790	272	465
15	397	864	773	698	1350	1170	842	573	388	775	264	347
16	395	2380	703	676	9870	4320	785	546	384	489	255	243
17	458	1130	641	659	4110	6330	759	602	368	414	244	213
18	543	828	614	737	3170	3560	739	552	360	388	240	200
19	607	642	614	678	3080	3110	699	517	351	414	236	195
20	463	573	592	965	2670	2830	688	785	334	584	232	195
21	430	534	564	2170	2320	2550	755	761	324	699	231	237
22	414	798	533	1200	2500	2160	738	617	351	627	252	734
23	400	1480	539	982	2210	1860	719	569	440	862	274	349
24	389	888	598	981	1860	1690	694	533	345	536	242	249
25	383	741	518	2200	1640	1550	659	509	359	438	228	224
26	376	669	506	1730	1480	1450	641	499	311	404	221	212
27	370	629	495	1270	1400	1350	632	898	302	374	215	203
28	367	655	490	1100	1330	1290	917	870	294	342	206	197
29	362	589	482	1460	---	1300	851	907	289	324	201	196
30	360	546	622	1520	---	1250	706	635	281	311	210	192
31	363	---	1430	1210	---	1220	---	551	---	299	204	---
TOTAL	20974	20061	20611	34414	60140	60530	25436	20343	11979	14588	8374	7303
MEAN	677	669	665	1110	2148	1953	848	656	399	471	270	243
MAX	3900	2380	1430	2200	9870	6330	1140	1080	623	1790	526	734
MIN	360	345	471	659	1050	1170	632	499	281	230	201	173
CFSM	2.87	2.84	2.82	4.70	9.10	8.28	3.59	2.78	1.69	2.00	1.14	1.03
IN.	3.31	3.16	3.25	5.42	9.48	9.54	4.01	3.21	1.89	2.30	1.32	1.15
CAL YR 1989	TOTAL	238337	MEAN	653	MAX	3900	MIN	241	CFSM	2.77	IN	37.57
WTR YR 1990	TOTAL	304753	MEAN	835	MAX	9870	MIN	173	CFSM	3.54	IN	48.04

MOBILE RIVER BASIN

02381600 FAUSETT CREEK NEAR TALKING ROCK, GA.

LOCATION.--Lat 34°34'13", long 84°28'08", Gilmer County, Hydrologic Unit 03150102, on right bank 25 ft upstream from culvert on County Road 1011, 3.6 mi upstream from mouth, and 4.5 mi northeast of Talking Rock.

DRAINAGE AREA.--9.99 mi².

PERIOD OF RECORD.--Annual maximum, water years 1966-74, October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,311.74 ft above National Geodetic Vertical Datum of 1929 (leveling by Global Positioning System).

REMARKS.--Estimated daily discharges: Feb. 17-27, and Mar. 17-29. Records good, except those for the period of Feb. 17-27, which are fair.

AVERAGE DISCHARGE.--16 years, 18.1 ft³/s, 24.60 in./yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,160 ft³/s, May 29, 1973, gage height, 16.96 ft, from floodmarks; minimum daily discharge, 1.1 ft³/s, June 26, 27, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 10	0815	502	4.84	Mar. 16	0900	879	6.73
Feb. 16	0445	*1,770	*10.27	Mar. 17	0315	830	6.51

Minimum daily discharge, 2.2 ft³/s, Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	11	15	34	37	43	39	24	17	13	8.6	4.1
2	49	11	15	22	40	76	41	23	17	11	9.5	3.9
3	27	11	14	18	40	75	38	22	24	8.7	9.1	3.6
4	20	10	14	35	78	54	37	22	19	8.4	8.5	3.1
5	17	10	14	29	51	48	36	25	17	8.1	9.0	3.1
6	16	16	14	43	44	45	37	22	16	7.9	8.4	3.0
7	15	17	14	35	44	43	35	21	15	7.7	7.9	2.8
8	14	22	31	51	39	56	34	20	14	7.4	13	2.6
9	14	19	25	39	78	86	33	27	14	17	29	2.4
10	13	15	22	33	314	63	37	30	14	13	18	2.5
11	13	13	20	29	171	52	36	22	13	9.8	8.5	2.5
12	13	13	45	26	126	48	33	21	13	13	7.4	2.2
13	13	12	31	24	109	45	32	22	12	34	7.6	15
14	12	15	23	22	102	43	32	20	12	25	6.8	12
15	12	38	21	21	120	43	32	19	12	16	6.4	6.8
16	12	71	19	21	831	345	30	18	12	12	5.9	5.4
17	13	32	18	20	320	348	29	20	11	11	5.6	4.7
18	18	25	17	25	165	100	28	18	11	11	5.7	4.3
19	16	22	18	21	165	77	27	17	11	11	5.6	4.0
20	13	21	17	83	115	65	27	33	10	12	5.3	4.1
21	12	20	16	115	92	58	29	30	10	11	5.3	17
22	12	69	15	49	160	54	28	23	11	19	5.7	27
23	12	68	15	39	115	52	27	20	14	19	5.7	9.2
24	11	29	22	46	76	50	26	19	10	12	5.1	7.5
25	11	23	15	133	58	47	25	18	9.6	11	4.9	7.1
26	11	20	15	66	47	47	24	17	9.3	10	4.8	6.7
27	11	18	15	48	43	44	24	25	9.0	9.6	4.6	6.5
28	11	17	15	42	43	42	37	38	8.8	9.4	4.2	6.4
29	11	16	15	55	---	44	28	24	8.6	9.2	4.4	6.3
30	11	15	21	46	---	41	25	20	8.4	8.8	5.5	6.2
31	11	---	68	39	---	40	---	18	---	8.6	4.5	---
TOTAL	604	699	639	1309	3623	2274	946	698	382.7	384.6	240.5	192.0
MEAN	19.5	23.3	20.6	42.2	129	73.4	31.5	22.5	12.8	12.4	7.76	6.40
MAX	160	71	68	133	831	348	41	38	24	34	29	27
MIN	11	10	14	18	37	40	24	17	8.4	7.4	4.2	2.2
CFM	1.95	2.33	2.06	4.22	12.9	7.35	3.15	2.25	1.28	1.24	.78	.64
IN.	2.25	2.60	2.38	4.87	13.49	8.47	3.52	2.60	1.42	1.43	.90	.71
CAL YR 1989	TOTAL	7760.2	MEAN	21.3	MAX	188	MIN	7.2	CFM	2.13	IN	28.89
WTR YR 1990	TOTAL	11991.8	MEAN	32.9	MAX	831	MIN	2.2	CFM	3.29	IN	44.65

MOBILE RIVER BASIN

02381950 SCARECORN CREEK ABOVE HINTON, GA.

LOCATION.--Lat 34°27'11", long 84°33'28", Pickens County, Hydrologic Unit 03150102, on right bank, approximately 300 ft downstream from bridge on Pickens County Road 150, 1.8 mi south of State Highway 53, 2.4 mi southeast of Hinton, and 8.0 mi upstream from mouth.

DRAINAGE AREA.--6.4 mi².

PERIOD OF RECORD.--July 1986 to January 1991 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1,107.59 ft above National Geodetic Vertical Datum of 1929 (leveling by Global Positioning System).

REMARKS.--Estimated daily discharges: Sept. 13. Records good. Peak flow regulated by Soil Conservation Service flood-retention reservoir since 1961.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 3.28 ft, Feb. 16, 1990; discharge unknown; minimum daily discharge, 0.12 ft³/s, July 22,23, 1986.

EXTREMES FOR CURRENT PERIOD: Oct. 1, 1989 to Jan. 17, 1991.--Maximum gage height, 3.28 ft, Feb. 16, 1990, discharge not determined; minimum daily discharge, 1.1 ft³/s, Sept. 10, 11, 1990.

REVISIONS.--The maximum discharge for the water years 1988 and 1989 have been revised to 180 ft³/s, Jan. 20, 1988; gage height, 2.61 ft, and 164 ft³/s, Sept. 30, 1989, gage height, 2.52 ft, superseding "discharge not determined" published in reports for 1988 and 1989.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	4.4	6.2	35	17	19	17	9.9	6.4	2.6	2.3	1.9
2	103	4.4	5.8	20	16	26	17	9.4	6.5	2.6	2.5	1.7
3	39	4.4	5.6	14	16	39	16	9.0	8.9	2.4	2.7	1.6
4	13	4.3	5.3	18	36	31	16	8.9	7.6	2.2	2.4	1.4
5	8.3	4.3	5.3	21	32	24	16	10	6.4	2.2	2.2	1.3
6	7.1	7.4	5.3	32	22	21	16	8.8	6.0	2.2	2.2	1.3
7	6.5	10	5.2	31	20	19	16	8.4	5.6	2.1	2.1	1.3
8	5.9	13	17	31	17	21	15	8.1	5.4	2.2	2.2	1.2
9	5.3	12	21	27	23	30	14	12	5.2	2.9	2.0	1.2
10	5.3	9.1	21	21	85	31	15	20	5.3	4.2	2.6	1.1
11	5.0	7.4	16	17	43	25	17	12	4.8	3.0	1.9	1.1
12	4.6	6.7	30	15	33	21	14	9.8	4.6	3.5	1.6	1.4
13	4.4	6.1	30	13	23	20	14	10	4.6	9.1	1.9	88
14	4.4	7.4	18	12	19	19	14	9.0	4.4	12	1.7	36
15	4.0	16	14	11	21	18	14	8.2	6.3	7.8	1.6	11
16	4.3	37	12	10	147	120	13	7.8	8.9	4.3	1.5	4.4
17	5.3	19	10	10	106	152	12	8.9	5.3	3.8	1.3	2.4
18	6.7	11	9.4	13	63	113	12	7.9	4.7	3.6	1.2	1.9
19	8.2	9.0	9.2	11	45	97	11	7.4	4.3	3.6	1.2	1.7
20	6.0	8.0	8.5	29	39	43	11	10	3.9	4.4	1.3	1.5
21	5.3	7.4	8.0	80	32	32	12	9.6	3.8	4.2	1.8	7.2
22	5.3	15	7.0	37	35	25	12	8.3	4.3	5.1	10	33
23	5.1	43	6.4	25	35	23	11	7.7	4.0	5.0	11	9.9
24	4.3	23	6.0	20	29	22	10	7.4	3.7	4.0	2.7	5.2
25	4.3	14	6.6	55	24	20	10	6.8	3.1	3.3	2.3	3.5
26	4.1	10	6.6	44	22	20	10	6.6	3.0	3.0	2.0	2.8
27	4.0	8.8	6.4	32	20	19	9.7	9.4	3.0	2.6	1.9	2.1
28	4.2	8.1	6.3	21	20	19	16	9.2	2.9	2.5	1.7	1.7
29	4.1	7.0	6.2	21	---	19	13	8.1	2.9	2.5	1.6	1.7
30	4.0	6.5	8.9	22	---	19	10	6.9	2.6	2.3	2.7	1.6
31	4.4	---	28	18	---	18	---	6.4	---	2.3	2.0	---
TOTAL	434.4	343.7	351.2	766	1040	1125	403.7	281.9	148.4	117.5	78.1	232.1
MEAN	14.0	11.5	11.3	24.7	37.1	36.3	13.5	9.09	4.95	3.79	2.52	7.74
MAX	139	43	30	80	147	152	17	20	8.9	12	11	88
MIN	4.0	4.3	5.2	10	16	18	9.7	6.4	2.6	2.1	1.2	1.1
CFSM	2.19	1.80	1.77	3.86	5.80	5.67	2.11	1.42	.77	.59	.39	1.21
IN.	2.52	2.00	2.04	4.45	6.04	6.54	2.35	1.64	.86	.68	.45	1.35
CAL YR 1989	TOTAL	4208.7	MEAN	11.5	MAX	139	MIN	1.5	CFSM	1.80	IN	24.46
WTR YR 1990	TOTAL	5322.0	MEAN	14.6	MAX	152	MIN	1.1	CFSM	2.28	IN	30.93

MOBILE RIVER BASIN

02381950 SCARECORN CREEK ABOVE HINTON, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.1	2.9	17								
2	1.5	1.9	2.9	11								
3	1.3	1.9	15	12								
4	1.9	1.9	19	13								
5	1.9	3.0	9.0	11								
6	1.5	3.7	6.9	9.1								
7	1.3	2.4	5.9	8.7								
8	1.8	2.3	4.9	7.9								
9	1.7	6.1	4.2	6.9								
10	2.5	10	3.7	7.0								
11	3.5	6.7	3.4	23								
12	4.5	5.2	3.3	22								
13	2.6	4.1	3.3	15								
14	2.1	3.6	3.2	11								
15	1.7	3.3	2.9	9.3								
16	1.5	3.3	2.9	8.9								
17	1.6	3.2	3.6	---								
18	8.0	2.9	5.1	---								
19	3.1	2.7	8.0	---								
20	2.2	2.6	6.1	---								
21	1.9	2.6	6.3	---								
22	9.8	2.6	6.1	---								
23	14	2.8	26	---								
24	7.4	2.6	41	---								
25	4.8	2.4	20	---								
26	3.7	2.4	9.4	---								
27	3.0	2.4	9.9	---								
28	2.7	4.0	12	---								
29	2.4	5.3	11	---								
30	2.2	3.3	10	---								
31	2.1	---	26	---								
TOTAL	101.8	103.3	293.9	---								
MEAN	3.28	3.44	9.48	---								
MAX	14	10	41	---								
MIN	1.3	1.9	2.9	---								
CFSM	.51	.54	1.48	---								
IN.	.59	.60	1.71	---								
CAL YR 1990	TOTAL	4691.7	MEAN	12.9	MAX	152	MIN	1.1	CFSM	2.02	IN	27.27

MOBILE RIVER BASIN

02382000 SCARECORN CREEK AT HINTON, GA.

LOCATION.--Lat 34°28'34", long 84°35'28", Pickens County, Hydrologic Unit 03150102, on left bank, 100 ft upstream from bridge on State Highway 53, 0.6 mi southwest of Hinton, and 5 mi upstream from Talking Rock Creek, and 8.5 mi west of Jasper.

DRAINAGE AREA.--21.3 mi² (revised).

PERIOD OF RECORD.--April 1939 to December 1943, May 1959 to September 1974, August 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,051.30 ft above National Geodetic Vertical Datum of 1929 (leveling by Global Positioning System).

REMARKS.--Estimated daily discharges: Nov. 16-27. Records good, except those for the period of estimated daily discharges, which are fair.

Peak flow regulated by Soil Conservation Service flood-retention reservoir since 1961.

AVERAGE DISCHARGE.--22 years (water years 1940-1942, 1960-1974, 1987-1990), 28.6 ft³/s, 18.23 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.2 ft, Feb. 16, 1942 (discharge not determined); minimum daily discharge, 0.45 ft³/s, Sept. 2, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge at 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1330	1,020	4.25	Feb. 22	1300	665	3.38
Jan. 20	2245	1,040	4.30	Mar. 16	0930	2,090	7.27
Feb. 9	2200	609	3.26	Mar. 16	2030	1,500	5.53
Feb. 10	0815	1,140	4.55	Mar. 17	0345	1,780	6.31
Feb. 16	0530	*2,300	*7.92	Sept. 13	0515	1,360	5.14

Minimum daily discharge, 5.6 ft³/s, Sept. 9, 10.

REVISIONS.--The peak discharges and annual maximum (*) reported for the period August 1, 1986 to September 30, 1986 and water years 1987-1989 have been revised as shown in the following table. They supercede figures published in the reports for 1987-89:

Period	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Aug.-Sept., 1986	Sept. 3	1115	*1,530	*5.59
WTR YR 1987	Feb. 28	0745	970	4.14
	Feb. 28	1845	*1,520	*5.56
WTR YR 1988	Jan. 30	0200	*1,370	*5.17
WTR YR 1989	Feb. 28	0645	759	3.65
	Mar. 4	2330	*1,530	*5.59
	July 25	1945	651	3.37
	Sept. 30	2100	1,340	5.07

Revised daily discharges, in cubic feet per second, for high-water periods in these years, are given below. These figures supersede those published in the reports 1987-89.

Sept. 3, 1986.....313
Feb. 28, 1987.....612
Sept. 30, 1989.....385

	TOTAL	MEAN	MAX	MIN	CFSM	IN
SEPT 1986	631.7	21.1	313	4.5	1.00	1.11
FEB 1987	1418	50.6	612	19	2.40	2.50
WTR YR 1987	8946.8	24.5	612	19	1.16	15.78
SEPT 1989	899.3	30.0	385	7.5	1.42	1.58
WTR YR 1989	11029.10	30.2	385	3.1	1.43	19.44

MOBILE RIVER BASIN

02382000 SCARECORN CREEK AT HINTON, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	456	14	24	87	47	52	47	31	22	9.4	10	7.5
2	213	14	23	55	47	132	46	29	22	9.5	11	7.1
3	85	14	21	42	48	146	45	28	29	8.7	11	6.7
4	43	13	21	68	139	86	43	27	25	8.1	10	6.4
5	30	14	21	66	80	65	41	31	22	8.0	9.6	6.0
6	26	23	21	116	60	57	42	27	21	7.9	9.6	6.0
7	23	33	21	87	58	53	44	26	20	7.7	9.0	5.9
8	20	62	55	114	51	77	42	26	19	7.5	9.8	5.9
9	19	42	91	81	129	145	38	33	19	10	9.7	5.6
10	18	28	74	63	431	95	46	48	19	13	11	5.6
11	17	23	52	55	128	71	47	32	17	9.9	8.8	5.9
12	16	21	123	46	85	60	39	29	16	13	8.0	7.3
13	16	20	82	42	66	57	37	29	15	48	8.6	523
14	15	23	53	41	58	56	37	27	15	65	8.0	96
15	15	61	44	43	110	53	37	26	16	28	7.8	36
16	15	111	38	43	1060	993	36	24	22	18	7.6	20
17	17	43	34	33	308	758	35	27	16	28	7.1	14
18	22	30	33	43	236	309	34	24	15	22	6.7	12
19	26	25	32	38	229	268	31	23	14	17	6.6	11
20	19	23	31	240	123	193	31	33	13	18	6.5	10
21	17	23	30	290	90	113	35	32	13	17	7.2	27
22	16	62	25	98	196	73	36	27	14	18	20	97
23	15	106	24	69	119	64	34	25	13	18	26	27
24	15	51	60	72	85	62	31	24	12	15	11	18
25	14	34	23	241	66	57	30	23	12	14	9.0	14
26	14	30	23	113	58	53	29	22	11	12	8.3	13
27	14	30	23	80	55	52	28	31	11	12	7.9	11
28	14	29	23	62	53	50	50	31	11	11	7.6	11
29	14	26	23	78	---	58	38	26	10	11	7.3	10
30	13	24	32	76	---	53	32	23	9.8	10	9.9	9.3
31	14	---	133	63	---	51	---	22	---	9.9	8.1	---
TOTAL	1271	1052	1313	2645	4215	4412	1141	866	493.8	504.6	298.7	1035.2
MEAN	41.0	35.1	42.4	85.3	151	142	38.0	27.9	16.5	16.3	9.64	34.5
MAX	456	111	133	290	1060	993	50	48	29	65	26	523
MIN	13	13	21	33	47	50	28	22	9.8	7.5	6.5	5.6
CFSM	1.93	1.65	1.99	4.01	7.09	6.67	1.78	1.31	.78	.77	.45	1.62
IN.	2.22	1.84	2.29	4.62	7.36	7.71	1.99	1.51	.86	.88	.52	1.81
CAL YR 1989	TOTAL	13726.2	MEAN	37.6	MAX	456	MIN	7.5	CFSM	1.77	IN	23.97
WTR YR 1990	TOTAL	19247.3	MEAN	52.7	MAX	1060	MIN	5.6	CFSM	2.47	IN	33.61

MOBILE RIVER BASIN

02382200 TALKING ROCK CREEK NEAR HINTON, GA.

LOCATION.--Lat 34°31'22", long 84°36'40", Pickens County, Hydrologic Unit 03150102, on left bank, 300 ft downstream from Scarecorn Creek, and 3.3 mi northwest of Hinton.

DRAINAGE AREA.--119 mi².

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

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

GAGE.--Water-stage recorder. Elevation of gage is 890 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated discharges. Records good.

AVERAGE DISCHARGE.--16 years (water years 1975-90), 191 ft³/s, 21.80 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,100 ft³/s, Mar. 4, 1979, gage height, 14.18 ft; minimum daily discharge, 6.1 ft³/s, July 11, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 28, 1973, reached a stage of 15.45 ft, from floodmarks; discharge 18,400 ft³/s from rating curve extended about 3,100 ft³/s on basis of slope-area measurements at gage heights 8.66 and 15.45 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1500	3,020	6.21	Feb. 16	0745	*11,200	*12.02
Jan. 21	0015	2,890	6.07	Mar. 16	1045	7,420	9.75
Feb. 10	0930	3,900	7.06	Mar. 17	0445	7,360	9.71

Minimum daily discharge, 43 ft³/s, Sept. 8-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2620	118	165	603	338	380	395	221	157	84	76	55
2	936	117	161	340	341	756	393	209	160	105	80	53
3	430	115	157	271	364	901	390	201	225	85	85	51
4	274	113	151	410	817	590	366	197	193	77	78	49
5	219	114	153	402	530	480	358	248	161	75	84	46
6	189	159	152	622	414	421	367	204	149	72	77	45
7	172	183	152	493	401	385	365	192	144	70	73	44
8	160	267	352	701	348	527	338	185	143	68	94	43
9	148	233	437	498	586	951	326	237	138	81	103	43
10	144	174	385	376	2370	709	359	373	136	163	163	43
11	139	153	282	319	882	540	402	245	130	88	91	46
12	132	143	647	288	574	465	340	212	123	89	79	44
13	129	136	480	259	472	423	323	219	122	313	82	773
14	128	147	314	244	409	396	322	202	122	525	77	256
15	126	225	270	235	491	382	320	187	124	196	73	139
16	125	794	236	227	6550	3900	306	179	138	131	71	91
17	143	300	214	220	1480	4100	299	197	125	123	66	73
18	168	221	205	262	1050	1370	290	180	122	114	64	68
19	202	189	206	236	1150	1030	280	169	116	120	64	67
20	150	175	198	656	797	846	283	295	109	142	64	67
21	137	167	185	1510	631	736	308	282	107	129	63	78
22	132	326	172	564	976	594	301	214	115	126	77	433
23	127	751	184	393	768	551	297	193	131	286	101	121
24	124	327	271	403	585	524	297	181	109	137	70	88
25	122	247	296	1310	489	489	290	169	102	112	64	77
26	120	217	185	749	440	474	286	164	98	103	62	73
27	117	199	163	492	409	455	281	205	95	93	61	73
28	116	196	161	395	393	427	386	259	92	86	57	73
29	114	181	160	491	---	447	281	214	90	83	55	71
30	114	169	214	459	---	430	231	175	87	81	63	71
31	118	---	847	379	---	415	---	161	---	78	59	---
TOTAL	8075	6856	8155	14807	25055	25094	9780	6569	3863	4035	2376	3254
MEAN	260	229	263	478	895	809	326	212	129	130	76.6	108
MAX	2620	794	847	1510	6550	4100	402	373	225	525	163	773
MIN	114	113	151	220	338	380	231	161	87	68	55	43
CFSM	2.19	1.92	2.21	4.02	7.52	6.80	2.74	1.78	1.08	1.09	.64	.91
IN.	2.52	2.14	2.55	4.63	7.83	7.84	3.06	2.05	1.21	1.26	.74	1.02
CAL YR 1989	TOTAL	84778	MEAN	232	MAX	2620	MIN	74	CFSM	1.95	IN	26.50
WTR YR 1990	TOTAL	117919	MEAN	323	MAX	6550	MIN	43	CFSM	2.71	IN	36.86

MOBILE RIVER BASIN

02382500 COOSAWATTEE RIVER AT CARTERS, GA.

LOCATION.--Lat 34°36'13", long 84°41'44", Murray County, Hydrologic Unit 03150102, on downstream side of center bridge pier on U.S. Highway 411 at Carters, 200 ft upstream from Louisville & Nashville Railroad bridge, 0.4 mi downstream from Carters re-regulation dam, and 0.6 mi downstream from Talking Rock Creek.

DRAINAGE AREA.--521 mi².

PERIOD OF RECORD.--September 1896 to December 1908, October 1918 to September 1923, October 1961 to September 1972, October 1974 to current year. Monthly discharge only for October to November 1918 published in WSP 1304.

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

GAGE.--Water-stage recorder. Datum of gage is 650.67 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to September 1923, nonrecording gage at site 0.4 mi upstream at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Carters Lake and Carters re-regulation dam since November 1974. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.) Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--43 years (water years 1897-1908, 1919-23, 1962-71, 1975-90), 1,187 ft³/s, 30.94 in/yr, adjusted for storage since 1975.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 28,500 ft³/s Nov. 19, 1906, gage height, 30.6 ft, present datum; minimum daily, 122 ft³/s, regulated Nov. 15, 1974; minimum discharge observed prior to regulation, 184 ft³/s several days during September to November 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 29 or 30, 1951, reached a stage of about 36 ft, from floodmarks; discharge 57,000 ft³/s, from rating curve extended above 24,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,370 ft³/s, Feb. 16, gage height, 18.94 ft; minimum daily discharge, 263 ft³/s, Apr. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	1640	807	1890	755	4020	6300	4330	2520	1720	689	1690	461		
2	1830	816	1180	1040	3510	6120	3610	3290	1720	992	1680	456		
3	1850	794	1140	1920	2720	5490	3040	2490	1520	998	1540	481		
4	1840	800	1070	2790	2030	4700	3310	1610	1130	1000	1000	544		
5	1850	780	1070	3070	2520	4420	3240	971	1010	973	919	715		
6	3310	767	1030	2200	3680	4700	2970	1110	1180	830	1080	1060		
7	4430	752	1080	1570	3640	4660	2060	1070	1250	489	1130	1340		
8	4330	750	1230	1930	3940	4610	1340	1090	1130	475	1400	1340		
9	4380	836	1530	2990	4210	4760	2570	1110	501	506	1410	1330		
10	4320	866	1430	3070	4280	4220	2070	1130	456	523	1380	1270		
11	4250	1250	1570	3070	4240	3850	1310	1260	455	622	989	1260		
12	3760	1360	2170	3060	3580	3590	1380	1540	603	700	958	1310		
13	2950	1400	2080	2330	2570	4750	1380	1430	684	597	955	1360		
14	2040	1410	2030	1620	3120	4770	1360	1120	678	628	976	1250		
15	1230	1410	1890	1350	3930	4640	1270	1390	650	714	977	1120		
16	855	1390	1720	1310	6580	4460	1440	1580	626	841	950	988		
17	889	1650	1730	1360	5680	5270	792	1620	592	928	944	1040		
18	794	2170	1720	1370	5670	5110	311	1620	527	927	910	1050		
19	921	2130	1730	1330	5730	4670	265	1150	753	1060	936	930		
20	1010	2120	1750	1340	5720	5000	263	754	920	1610	934	880		
21	801	2140	1780	1360	5770	5230	319	828	1130	1590	943	864		
22	789	2210	1560	1420	5790	5220	399	1360	1020	1530	921	912		
23	854	2180	1190	1970	5870	5210	1270	1570	589	1520	919	889		
24	813	1630	1200	2290	6370	4960	2630	1580	566	1530	914	808		
25	835	1000	1120	2460	6230	4830	3080	1610	550	1710	938	556		
26	838	1020	1120	1900	6270	4920	3570	1430	560	1830	945	438		
27	827	1520	1100	2070	6260	4840	3370	1340	493	1690	931	431		
28	807	2380	1060	2680	6290	4810	2630	1050	429	1410	927	398		
29	795	2400	991	3070	---	4930	1830	1030	447	1140	914	329		
30	778	2260	738	3670	---	4770	1690	1280	444	609	918	318		
31	784	---	758	3730	---	4880	---	1520	---	1240	822	---		
TOTAL	57400	42998	43657	66095	130220	150690	59099	44453	24333	31901	32850	26128		
MEAN	1852	1433	1408	2132	4651	4861	1970	1434	811	1029	1060	871		
MAX	4430	2400	2170	3730	6580	6300	4330	3290	1720	1830	1690	1360		
MIN	778	750	738	755	2030	3590	263	754	429	475	822	318		
MEAN†	1509	1378	1412	2384	5116	4498	1782	1345	812	983	573	574		
CFSM†	2.90	2.64	2.71	4.58	9.82	8.63	3.42	2.58	1.56	1.89	1.10	1.10		
IN†	3.34	2.95	3.12	5.28	10.23	9.95	3.82	2.98	1.74	2.18	1.27	1.23		
CAL YR 1989	TOTAL	497958	MEAN	1364	MAX	4430	MIN	310	MEAN†	1371	CFSM†	2.63	IN†	35.72
WTR YR 1990	TOTAL	709824	MEAN	1945	MAX	6580	MIN	263	MEAN†	1846	CFSM†	3.54	IN†	48.10

†ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

MOBILE RIVER BASIN

02383500 COOSAWATTEE RIVER NEAR PINE CHAPEL, GA.

LOCATION.--Lat 34°33'51", long 84°49'59", Gordon County, Hydrologic Unit 03150102, on right bank at downstream side of Owens Bridge on Owens Gin Road, 1.4 mi downstream from Sallacoa Creek, 8.7 mi upstream from confluence with Conasauga River, and 2.4 mi east of Pine Chapel.

DRAINAGE AREA.--831 mi².

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1976, published as Coosawattee River at Pine Chapel, Ga. Monthly discharge only for October to November 1938, published in WSP 1304.

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

GAGE.--Water-stage recorder. Datum of gage is 616.16 above ft National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Since October 1, 1976, auxiliary water-stage recorder at highway bridge 2.2 mi downstream. Prior to Feb. 23, 1940, nonrecording gage at current auxiliary gage site and same datum. Feb. 23, 1940, to April 8, 1975, water-station recorder at current auxiliary gage site and same datum. Feb. 23, 1940, to April 8, 1975 auxiliary water-stage recorder at current gage site. April 9, 1975, to Sept. 30, 1976, water-stage recorder on Oostanula River at Resaca used as auxiliary gage, due to bridge construction.

REMARKS.--Estimated daily discharges: Feb. 5, 6, Feb. 15-17, Mar. 17-28. Records good, except those for the periods of estimated daily discharges, which are fair. Flow regulated by Carters Lake and Carters Re-regulation Dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.

AVERAGE DISCHARGE.--52 years, 1,492 ft³/s, 24.38 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,200 ft³/s, Mar. 30, 1951, gage height, 34.2 ft at current base gage, 30 ft at current auxiliary gage; minimum daily discharge, 188 ft³/s, Sept. 11, 1976, minimum unregulated daily discharge, 220 ft³/s, Oct. 26, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 8, 1938, reached a stage of 30.0 ft from gage reading at current auxiliary gage discharge 34,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,600 ft³/s, Feb. 17, gage height, 29.55 ft; minimum daily discharge, 434 ft³/s, Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7790	1000	2480	3460	4910	6410	5070	2480	1830	610	1780	636
2	9040	1040	1790	2140	4510	6680	4480	3630	1960	1080	1870	552
3	6030	1010	1450	2490	4040	7830	3610	3180	1800	1090	1850	568
4	3670	1000	1420	3600	5110	7170	3870	2190	1550	1100	1280	578
5	2990	1000	1370	4480	5000	5780	3740	1470	1220	1070	1110	775
6	3420	1010	1350	4770	5500	5690	3680	1380	1270	1040	1130	969
7	4550	1120	1360	4130	4960	5450	2960	1340	1410	668	1200	1420
8	4360	1410	2660	4510	4640	5530	1970	1320	1510	580	1610	1450
9	4290	1480	3080	5170	4970	6670	2400	1420	1010	601	1730	1470
10	4260	1330	3060	4540	7100	6870	3060	1900	727	632	1660	1410
11	4190	1500	2520	4180	8690	5740	1910	1630	668	681	1310	1370
12	3930	1650	3900	3980	6760	4820	1790	1860	719	836	1120	1440
13	3360	1670	4800	3320	4260	5240	1780	1800	891	1090	1080	1710
14	2580	1680	3540	2460	4140	5410	1760	1470	878	2260	1130	1780
15	1780	1990	2990	1900	5000	5330	1680	1490	858	1350	1110	1450
16	1150	4740	2530	1780	11000	7840	1690	1790	847	1060	1100	1210
17	1180	3000	2400	1780	16000	16000	1570	1860	806	1130	1080	1200
18	1190	2980	2340	1870	10000	12000	762	1870	754	1120	1040	1200
19	1370	2840	2330	1890	8730	9000	625	1640	753	1130	1050	1180
20	1380	2670	2320	2180	8430	8000	604	1070	1070	1690	1030	989
21	1190	2640	2280	5870	7750	7000	645	1160	1130	2430	1080	1030
22	1060	2920	2200	5220	7710	6400	756	1470	1360	1750	1040	1190
23	1090	5100	1560	3540	8720	6000	1100	1840	806	1850	1050	1140
24	1100	3990	1540	3460	8160	5800	2780	1800	720	1750	1050	1060
25	1060	2080	1470	5590	7590	5600	3140	1810	685	1820	1060	791
26	1090	1610	1480	6080	7010	5400	3850	1700	690	2000	1060	584
27	1060	1900	1460	4160	6620	5400	3790	1600	681	1930	1060	550
28	1040	2820	1400	3950	6480	5300	3410	1640	540	1620	1040	555
29	1030	3040	1400	4300	---	5330	2700	1330	573	1440	1030	452
30	988	2880	1210	5270	---	5340	2020	1400	552	853	1050	434
31	1000	---	2240	4910	---	5330	---	1660	---	1010	1050	---
TOTAL	84218	65100	67930	116980	193790	206360	73202	54200	30268	39271	37840	31143
MEAN	2717	2170	2191	3774	6921	6657	2440	1748	1009	1267	1221	1038
MAX	9040	5100	4800	6080	16000	16000	5070	3630	1960	2430	1870	1780
MIN	988	1000	1210	1780	4040	4820	604	1070	540	580	1030	434

CAL YR 1989	TOTAL	777117	MEAN	2129	MAX	9040	MIN	574	MEAN†	2136	CFSM†	2.57	IN†	34.91
WTR YR 1990	TOTAL	1000302	MEAN	2741	MAX	16000	MIN	434	MEAN†	2642	CFSM†	3.18	IN†	43.17

†ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

MOBILE RIVER BASIN

02383540 COOSAWATTEE RIVER NEAR CALHOUN, GA.

LOCATION.--Lat 34°32'28", long 84°54'03", Gordon County, Hydrologic Unit 03150102, at bridge on State Highway 225, 0.2 mi upstream from confluence with Conasauga River, and 4.0 mi northeast of Calhoun.

DRAINAGE AREA.--861 mi².

PERIOD OF RECORD.--August 1974 to current year.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Flow regulated by Carters Lake and Carters reregulation reservoir (see "Lakes and Reservoirs in Mobile River Basin", stations 02381400 and 02382400). Discharge obtained from gaging station 02383500, Coosawattee River near Pine Chapel, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 28...	0915	2880	58	54	7.0	7.0	13.5	19.5	9.6	94
JAN 30...	1040	5350	55	58	6.8	7.0	8.5	10.0	11.0	96
MAR 28...	1030	5240	39	38	6.8	7.0	12.0	12.0	10.8	101
MAY 29...	0830	1340	70	71	7.3	7.3	18.5	19.5	7.9	87
JUL 25...	0810	1740	50	--	7.0	7.1	21.0	25.5	8.4	96
AUG 28...	0950	1020	57	58	7.3	7.3	26.5	26.0	7.4	94
SEP 25...	0945	736	63	62	7.3	7.2	16.0	16.0	8.4	87

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT LAB MG/L AS CACO3	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 28...	13	1.4	170	20	3	17	0.260	0.050	0.040	2.1
JAN 30...	24	0.1	1700	18	2	16	0.300	<0.030	0.080	3.4
MAR 28...	17	1.3	80	12	0	13	0.250	<0.030	0.260	1.3
MAY 29...	46	1.4	3300	28	3	25	0.290	<0.030	0.050	2.0
JUL 25...	18	0.5	80	18	2	16	0.190	<0.030	0.100	4.8
AUG 28...	10	0.8	140	20	1	19	0.140	<0.030	0.090	1.4
SEP 25...	11	1.7	130	20	0	22	0.200	0.040	0.090	3.5

MOBILE RIVER BASIN

02384500 CONASAUGA RIVER NEAR ETON, GA.

LOCATION.--Lat 34°49'40", long 84°51'03", Murray-Whitfield County line, Hydrologic Unit 03150101, at downstream side of right bank pier of bridge on State Highway 286, 3.4 mi upstream from Mill Creek, 5.2 mi west of Eton, and at mile 42.7.

DRAINAGE AREA.--252 mi².

PERIOD OF RECORD.--Water years 1954-58, 1963-81 (annual maximum), October 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 672.64 ft above National Geodetic Vertical Datum of 1929. June 26, 1953, to September 30, 1958 and August 16, 1962 to September 30, 1981, crest-stage gage at site 75 ft downstream at datum 3.00 ft higher.

REMARKS.--Estimated daily discharges: Dec. 23-27. Records good, except those for the period Dec. 23-27, which are fair.

AVERAGE DISCHARGE.--9 years (water years 1982-90), 473 ft³/s, 25.49 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,200 ft³/s, Feb. 16, 1990, gage height, 20.50 ft; minimum discharge, 23 ft³/s, July 11, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 3,800 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	2300	15,500	16.18	Feb. 11	1000	7,990	13.72
Nov. 17	0800	5,170	12.25	Feb. 16	2300	*33,200	*20.50
Nov. 23	2300	3,870	11.22	Mar. 3	1900	3,990	11.34
Jan. 22	0100	4,140	11.49	Mar. 17	1000	16,500	16.68

Minimum discharge, 57 ft³/s, Sept. 8, 9, gage height, 2.30 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12400	210	473	3250	911	690	506	426	210	81	120	91
2	11000	196	440	1260	850	1190	480	465	204	99	115	83
3	4280	187	412	817	1010	3590	455	404	226	138	112	81
4	1110	178	383	1160	2530	2730	436	362	306	92	107	75
5	787	175	373	1550	3030	1270	420	527	217	79	155	69
6	640	227	362	1860	1230	928	411	436	188	75	225	66
7	539	468	351	1660	983	766	509	365	175	70	197	62
8	462	667	685	2230	835	916	431	331	166	68	227	60
9	403	903	796	2050	772	1560	400	378	159	64	214	79
10	366	766	665	1150	3220	2890	398	1710	160	192	185	127
11	339	508	568	885	6800	1670	501	1010	150	184	269	249
12	316	390	1080	769	2300	1130	468	577	139	239	185	150
13	296	330	1250	671	1060	877	440	453	132	653	150	497
14	283	318	826	608	881	754	413	385	128	1360	151	307
15	265	588	670	572	937	718	411	332	127	958	130	253
16	259	2960	589	540	16600	4200	390	300	128	445	122	167
17	368	4020	487	511	17400	14800	369	297	131	299	111	121
18	462	968	464	547	4210	8490	374	361	124	232	103	103
19	566	696	466	569	2130	2730	350	280	123	215	98	92
20	458	584	470	799	1450	1280	335	284	123	206	95	88
21	376	523	409	3450	1100	1010	358	305	113	219	90	110
22	327	771	365	2690	1350	876	437	304	114	218	98	370
23	300	3340	350	1010	2230	782	374	301	125	257	213	328
24	272	2180	340	849	1350	714	360	274	115	327	141	184
25	253	904	330	2040	988	661	345	251	106	248	105	136
26	239	737	315	2670	841	618	336	232	99	199	95	117
27	224	644	305	1210	765	600	320	234	93	174	90	107
28	213	708	291	897	713	550	349	340	89	151	86	98
29	206	637	312	1140	---	553	542	358	88	133	81	92
30	203	518	338	2220	---	583	445	261	87	127	81	89
31	202	---	1450	1260	---	540	---	231	---	126	96	---
TOTAL	38414	26301	16615	42894	78476	60666	12363	12774	4345	7928	4247	4451
MEAN	1239	877	536	1384	2803	1957	412	412	145	256	137	148
MAX	12400	4020	1450	3450	17400	14800	542	1710	306	1360	269	497
MIN	202	175	291	511	713	540	320	231	87	64	81	60
CFSM	4.92	3.48	2.13	5.49	11.1	7.77	1.64	1.64	.58	1.02	.54	.59
IN.	5.67	3.88	2.45	6.33	11.58	8.96	1.83	1.89	.64	1.17	.63	.66
CAL YR 1989	TOTAL	289199	MEAN	792	MAX	12400	MIN	107	CFSM	3.14	IN	42.69
WTR YR 1990	TOTAL	309474	MEAN	848	MAX	17400	MIN	60	CFSM	3.37	IN	45.68

MOBILE RIVER BASIN

02384540 MILL CREEK NEAR CRANDALL, GA.

LOCATION.--Lat 34°52'19", long 84°43'17", Murray County, Hydrologic Unit 03150101, on right bank 100 ft south of Forest Service Road 630, 2.1 mi from Crandall, 1.3 mi upstream from Cohorn Creek, and 1.4 mi northeast of Crandall.

DRAINAGE AREA.--8.27 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1985 to current year.

GAGE.--Water-stage recorder. Datum of gage is 888.98 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good to fair, except those for the period affected by beaverdams, Oct. 15 to Nov. 3, and April 10 to Sept. 30, which are poor.

AVERAGE DISCHARGE.--5 years, 19.9 ft³/s, 32.59 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,240 ft³/s, Feb. 16, 1990, gage height, 6.96 ft from rating curve extended above 430 ft³/s, on basis of slope-conveyance study; minimum daily discharge, 0.55 ft³/s, Oct. 10, 1987.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 15	2400	380	3.72	Mar. 17	0430	760	4.68
Feb. 10	0630	828	4.82	July 14	0615	346	4.21
Feb. 16	0600	*2,240	*6.96				

Minimum daily discharge, 0.96 ft³/s, Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	319	9.3	13	76	39	31	16	22	11	2.4	8.9	1.7
2	119	8.6	14	40	45	53	16	21	10	2.2	7.3	1.5
3	63	8.8	13	29	68	126	15	20	17	1.6	6.6	1.3
4	42	9.8	12	43	149	71	15	19	14	1.4	5.8	1.1
5	32	11	12	52	81	49	14	20	14	1.1	11	1.2
6	25	22	12	64	53	36	15	18	13	1.6	8.8	1.1
7	21	18	12	60	44	30	16	18	11	1.6	7.1	1.1
8	19	30	24	82	36	35	14	19	11	1.7	6.1	.96
9	17	46	22	67	36	94	14	33	10	50	8.1	1.6
10	15	36	21	45	396	117	17	59	12	82	19	12
11	14	28	19	34	113	61	15	40	11	64	9.5	4.4
12	13	21	48	27	63	44	14	32	11	74	7.4	2.8
13	12	19	48	21	47	36	13	28	12	135	10	8.1
14	12	26	32	18	39	31	13	23	9.9	225	10	9.0
15	11	103	26	17	65	28	12	25	10	114	7.1	5.9
16	11	190	20	18	970	418	11	25	10	78	6.1	4.0
17	14	61	18	23	179	431	9.4	31	9.5	59	3.9	3.4
18	15	36	16	28	89	129	8.5	20	8.2	47	3.4	3.1
19	19	24	16	24	69	74	7.7	18	7.8	43	3.8	3.2
20	15	20	14	56	53	51	7.5	18	9.7	41	3.3	3.5
21	13	17	13	147	44	41	15	16	6.8	37	3.8	7.9
22	12	48	13	70	79	35	14	19	5.9	45	6.9	24
23	11	105	8.9	47	84	30	13	17	8.9	63	6.0	11
24	11	50	17	39	54	27	11	16	5.8	44	3.2	8.5
25	10	34	21	84	41	24	12	16	5.3	35	2.4	8.2
26	12	26	16	75	34	23	10	15	4.4	27	2.2	6.5
27	11	22	11	49	32	21	10	19	3.6	20	2.1	5.0
28	11	18	8.9	38	33	19	26	17	2.8	15	2.0	3.7
29	11	16	8.5	62	---	20	33	14	2.5	14	2.0	3.4
30	9.9	14	12	74	---	19	25	11	2.3	15	2.1	2.7
31	10	---	88	49	---	17	---	10	---	10	1.7	---
TOTAL	929.9	1077.5	629.3	1558	3035	2221	432.1	679	270.4	1350.6	187.6	151.86
MEAN	30.0	35.9	20.3	50.3	108	71.6	14.4	21.9	9.01	43.6	6.05	5.06
MAX	319	190	88	147	970	431	33	59	17	225	19	24
MIN	9.9	8.6	8.5	17	32	17	7.5	10	2.3	1.1	1.7	.96
CFSM	3.63	4.34	2.46	6.08	13.1	8.66	1.74	2.65	1.09	5.27	.73	.61
IN.	4.18	4.85	2.83	7.01	13.65	9.99	1.94	3.05	1.22	6.07	.84	.68
CAL YR 1989	TOTAL	11802.20	MEAN	32.3	MAX	333	MIN	4.4	CFSM	3.91	IN	53.08
WTR YR 1990	TOTAL	12522.26	MEAN	34.3	MAX	970	MIN	.96	CFSM	4.15	IN	56.32

MOBILE RIVER BASIN

02384748 CONASAUGA RIVER NEAR DALTON, GA.

LOCATION.--Lat 34°47'20", long 84°52'30", Whitfield-Murray County line, Hydrologic Unit 03150101, at Dalton waterworks intake, 0.4 mi upstream from U.S. Highway 76, and 5.5 mi east of Dalton.

DRAINAGE AREA.--308 mi².

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 25...	1230	285	122	124	7.6	7.4	13.5	19.0	8.9	86
NOV 28...	1215	540	108	101	7.5	7.3	13.5	19.5	8.9	88
DEC 27...	1320	350	116	123	7.7	7.5	2.0	17.0	11.8	88
JAN 30...	1250	2800	59	61	6.7	7.1	9.0	13.0	10.6	94
FEB 28...	0830	770	84	88	7.5	7.2	7.5	9.5	10.8	90
MAR 28...	1250	560	97	96	7.4	7.5	13.0	22.0	9.8	94
APR 23...	1015	330	112	120	7.6	7.6	18.0	25.0	8.2	88
MAY 27...	1045	390	98	100	7.6	7.4	19.5	22.0	7.6	85
JUN 27...	0945	48	128	134	8.0	7.6	24.0	29.0	7.6	92
JUL 25...	1010	215	75	71	7.4	7.4	24.0	28.0	7.6	92
AUG 28...	1120	47	128	133	8.0	8.0	27.0	34.0	7.0	90
SEP 25...	1145	109	107	106	7.4	7.4	17.5	20.0	7.2	77

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CaCO3)	HARD- NESS NONCARB WAT TOT LAB MG/L AS CaCO3	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CaCO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 25...	5.0	12	0.5	110	60	6	54	11
NOV 28...	8.0	12	1.7	50	46	11	35	9
DEC 27...	3.0	9	0.9	40	--	--	49	<1
JAN 30...	31	24	0.6	1300	20	0	22	42
FEB 28...	8.0	8	1.2	--	44	8	36	3
MAR 28...	5.0	7	0.8	110	44	5	39	7
APR 23...	3.0	<5	0.1	80	54	5	49	8
MAY 27...	26	16	1.5	3300	42	1	41	33
JUN 27...	9.0	2	1.3	--	50	0	55	17
JUL 25...	16	--	0.8	170	30	0-	31	25
AUG 28...	10	--	1.3	230	60	10	50	13
SEP 25...	18	--	1.5	490	56	14	42	21

MOBILE RIVER BASIN

02384748 CONASAUGA RIVER NEAR DALTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 25...	0.290	<0.030	--	0.10	0.39	0.030	<1.0
NOV 28...	0.730	<0.030	--	<0.10	--	0.080	--
DEC 27...	0.380	0.050	0.05	0.10	0.48	0.030	3.3
JAN 30...	0.230	<0.030	--	0.19	0.42	0.080	4.5
FEB 28...	0.430	<0.030	--	<0.10	--	0.030	2.2
MAR 28...	0.300	<0.030	--	<0.10	--	0.040	1.5
APR 23...	0.180	<0.030	--	<0.10	--	0.060	1.9
MAY 27...	0.230	0.040	0.36	0.40	0.63	0.050	4.3
JUN 27...	0.190	<0.030	--	0.20	0.39	0.050	2.3
JUL 25...	0.130	<0.030	--	--	--	0.070	2.8
AUG 28...	0.070	0.080	--	--	--	0.100	2.4
SEP 25...	0.160	0.040	--	--	--	0.080	4.1

MOBILE RIVER BASIN

02385800 HOLLY CREEK NEAR CHATSWORTH, GA.

LOCATION.--Lat 34°43'00", long 84°46'12", Murray County, Hydrologic Unit 03150101, on right bank 100 ft upstream from bridge on county road 48, 3 mi upstream from Rock Creek, and 3.3 mi south of Chatsworth.

DRAINAGE AREA.--64.0 mi².

PERIOD OF RECORD.--June 1960 to current year.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 690 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good. Low flow affected by withdrawals and return flow by the city of Chatsworth. Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--30 years, 123 ft³/s, 26.10 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,600 ft³/s, Feb. 16, 1990, gage height, 14.87 ft, from rating curve extended above 11,000 ft³/s on basis of contracted-opening measurement of peak flow; minimum daily discharge, 1.2 ft³/s, Oct. 10, 1987.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1300	4,200	10.37	Feb. 10	1800	2,540	9.28
Nov. 16	1700	1,850	8.77	Feb. 16	1200	*20,600	*14.87
Jan. 21	1100	1,530	8.52	Mar. 16	2000	4,940	10.37
Feb. 4	1700	1,600	8.58				

Minimum daily discharge, 5.5 ft³/s, Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3290	38	79	925	235	175	113	79	44	13	24	9.3
2	1650	37	74	277	276	421	108	84	45	13	23	10
3	451	36	70	181	570	959	105	69	55	12	21	8.8
4	211	35	66	401	1420	531	100	64	54	11	20	7.6
5	149	35	65	457	856	292	95	76	43	10	28	7.3
6	117	50	63	642	388	225	98	62	39	9.9	38	7.5
7	98	66	62	504	288	193	113	58	36	10	24	6.0
8	84	73	402	786	225	380	93	54	35	9.9	19	5.5
9	75	119	232	590	216	655	88	75	33	17	21	5.6
10	65	81	169	315	1690	763	99	440	32	69	58	94
11	60	62	136	219	1170	434	131	205	30	52	29	26
12	55	52	545	179	437	278	99	114	27	33	21	15
13	52	47	479	148	279	222	93	99	25	151	20	51
14	50	64	216	131	223	194	87	83	24	484	27	46
15	47	295	163	121	291	177	88	72	25	125	20	37
16	45	1440	131	112	9890	2650	82	66	26	61	16	20
17	68	508	110	106	2180	3880	78	73	27	43	15	15
18	70	182	103	143	804	1300	76	65	23	36	14	12
19	103	131	102	122	718	628	71	57	22	33	13	11
20	62	109	97	287	494	383	69	70	20	55	13	11
21	53	96	86	1360	351	275	83	65	18	67	12	23
22	48	233	76	543	581	225	84	61	20	54	16	183
23	44	1150	78	256	780	195	71	57	29	251	22	54
24	41	346	71	235	441	176	66	53	23	87	16	29
25	40	187	87	797	292	160	62	49	18	56	12	22
26	39	148	80	777	236	149	59	47	16	46	12	20
27	38	125	73	341	206	142	58	57	15	40	10	17
28	37	111	70	232	188	130	118	74	14	33	10	9.9
29	37	94	65	465	---	130	136	62	14	29	9.3	9.2
30	37	84	89	742	---	127	90	52	14	26	10	8.5
31	37	---	680	347	---	120	---	47	---	26	11	---
TOTAL	7253	6034	4819	12741	25725	16569	2713	2589	846	1962.8	604.3	781.2
MEAN	234	201	155	411	919	534	90.4	83.5	28.2	63.3	19.5	26.0
MAX	3290	1440	680	1360	9890	3880	136	440	55	484	58	183
MIN	37	35	62	106	188	120	58	47	14	9.9	9.3	5.5
CFSM	3.66	3.14	2.42	6.42	14.4	8.34	1.41	1.31	.44	.99	.31	.41
IN.	4.22	3.51	2.80	7.41	14.95	9.63	1.58	1.50	.49	1.14	.35	.45
CAL YR 1989	TOTAL	82980.0	MEAN	227	MAX	3290	MIN	18	CFSM	3.55	IN	48.23
WTR YR 1990	TOTAL	82637.3	MEAN	226	MAX	9890	MIN	5.5	CFSM	3.53	IN	48.03

MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.

LOCATION.--Lat 34°40'00", long 84°55'42", Whitfield-Murray County line, Hydrologic Unit 03150101, on left bank 250 ft downstream from Tilton Road bridge, 0.2 mi downstream from Swamp Creek, 0.5 mi northeast of Tilton, and 12 mi upstream from confluence with Coosawattee River.

DRAINAGE AREA.--687 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1937 to current year.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 622.28 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

Prior to Aug. 24, 1940, nonrecording gage at site 150 ft upstream at same datum. Since Oct. 1, 1979, auxiliary water-stage recorder at Sloan Road bridge, 3.2 mi downstream. Water-stage recorder on Oostanaula River at Resaca used as auxiliary gage during 1961-79 water years.

REMARKS.--Estimated daily discharges: Dec. 24-26. Records good, except those for the periods Oct. 3 to Nov. 2, and Jan. 18 to Mar. 1, which are good to fair, and those for the period of estimated daily discharges, which are fair. Flow affected by withdrawals and return flow by the city of Dalton, Ga.

AVERAGE DISCHARGE.--53 years, 1,209 ft³/s, 23.89 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,800 ft³/s, Feb. 17, 1990, gage height, 29.89 ft, maximum gage height, 30.2, Mar. 30, 1951, backwater from the Coosawattee River; minimum daily discharge, 12 ft³/s, July 24, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 3	1700	19,200	24.79	Feb. 6	0400	6,990	15.92
Nov. 18	0800	6,900	15.42	Feb. 12	2100	9,890	19.39
Nov. 24	2200	6,680	15.22	Feb. 17	2400	*36,800	*29.89
Jan. 2	1000	6,450	14.72	Feb. 24	0400	5,010	14.17
Jan. 9	1600	5,900	14.24	Mar. 5	0100	6,890	16.40
Jan. 23	0200	7,360	16.38	Mar. 11	1500	5,720	14.41
Jan. 27	0800	6,360	15.13	Mar. 18	1900	23,900	26.96
Jan. 31	0700	5,180	12.93				

Minimum daily discharge, 94 ft³/s, Sept. 8.

MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11300	421	1010	5540	2830	1600	1170	888	440	183	223	159
2	16200	412	934	6230	2200	2280	1070	881	438	178	217	175
3	18900	392	892	3010	3020	5350	975	799	498	182	211	174
4	15700	399	802	2310	5280	6590	900	683	636	207	307	156
5	8750	407	732	4160	6520	6100	852	835	622	176	284	121
6	2320	476	713	4780	6610	2800	821	1260	434	148	398	105
7	1490	858	694	5200	3410	2030	1010	788	375	127	370	100
8	1270	1400	1840	5520	2400	2370	1040	615	356	156	296	94
9	1090	1800	2720	5820	2060	4620	843	888	348	168	351	143
10	933	1830	2030	4960	6220	5240	776	4290	355	153	676	318
11	838	1280	1550	2770	7840	5570	1060	4610	358	417	548	750
12	763	940	2360	2070	9460	3650	1050	2550	299	449	422	572
13	716	761	4060	1710	7960	2450	907	1410	275	1100	359	3700
14	680	724	3060	1440	2900	1970	841	1130	258	2260	325	1720
15	657	1570	1840	1290	2390	1740	810	908	253	2530	291	910
16	631	4820	1520	1160	13900	6730	790	771	261	1170	240	542
17	802	6170	1250	1080	29000	14400	701	723	282	625	217	383
18	1040	6430	1080	1120	32800	22600	682	780	287	447	207	273
19	1320	2420	1030	1310	21400	21200	653	730	239	433	213	224
20	1130	1410	1090	1670	12300	13400	611	628	226	416	207	208
21	893	1170	986	5610	5890	5890	676	637	226	472	175	200
22	766	1350	852	6920	3390	2480	884	610	209	499	225	1370
23	681	5110	602	6190	4590	1980	851	621	234	566	254	1320
24	592	6350	640	2660	4610	1880	692	551	280	748	300	677
25	541	5130	670	4480	2860	1700	628	509	254	544	234	380
26	518	2100	710	6010	2150	1510	574	483	199	402	209	296
27	496	1640	749	5970	1950	1380	542	485	181	341	195	258
28	489	1420	669	3120	1800	1250	645	724	172	310	158	236
29	489	1550	661	2990	---	1200	1540	851	168	307	143	230
30	467	1170	723	4730	---	1350	1650	602	169	271	150	236
31	426	---	2350	4850	---	1270	---	487	---	236	137	---
TOTAL	92888	61910	40819	116680	207740	154580	26244	32727	9332	16221	8542	16030
MEAN	2996	2064	1317	3764	7419	4986	875	1056	311	523	276	534
MAX	18900	6430	4060	6920	32800	22600	1650	4610	636	2530	676	3700
MIN	426	392	602	1080	1800	1200	542	483	168	127	137	94
CFSM	4.36	3.00	1.92	5.48	10.8	7.26	1.27	1.54	.45	.76	.40	.78
IN.	5.03	3.35	2.21	6.32	11.25	8.37	1.42	1.77	.51	.88	.46	.87
CAL YR 1989	TOTAL	722471	MEAN	1979	MAX	18900	MIN	199	CFSM	2.88	IN	39.12
WTR YR 1990	TOTAL	783713	MEAN	2147	MAX	32800	MIN	94	CFSM	3.13	IN	42.44

MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to current year.

pH: October 1975 to current year.

WATER TEMPERATURE: October 1975 to current year.

DISSOLVED OXYGEN: October 1975 to current year.

INSTRUMENTATION.--Water-quality monitor. Specific Conductance, pH, Water Temperature, and Dissolved Oxygen recorded hourly.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 646 microsiemens Oct. 26, 1987; minimum recorded, 34 microsiemens Mar. 23, 1980.

pH: Maximum recorded, 10.7 units Feb. 13, 1988; minimum recorded, 6.3 units July 5, 6, 1976.

WATER TEMPERATURE: Maximum recorded, 33.0°C July 21, 1986; minimum recorded, 0.0°C Dec. 19, 20, 1981, Dec. 23, 24, 1989.

DISSOLVED OXYGEN: Maximum recorded, 15.7 mg/L June 12, 1988; minimum recorded, 0.2 mg/L May 13, 1987.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 340 microsiemens Sept. 9; minimum recorded, 45 microsiemens Feb. 17.

pH: Maximum recorded, 8.6 units Sept. 5; minimum recorded, 6.6 units Oct. 1, 2, 3, 4.

WATER TEMPERATURE: Maximum recorded, 30.5°C July 7, 8, 10; minimum recorded, 0.0°C Dec. 23, 24.

DISSOLVED OXYGEN: Maximum recorded, 13.1 mg/L Dec. 24; minimum recorded, 4.0 mg/L June 4, Sept. 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 25...	1100	535	176	178	7.5	7.5	13.0	17.5	9.5	91
NOV 28...	1100	1430	128	127	7.4	7.2	12.5	20.0	9.2	88
DEC 27...	1300	827	145	154	7.8	7.5	0.5	10.5	13.6	96
JAN 30...	1200	4740	101	105	6.9	7.3	9.5	13.0	10.1	90
FEB 28...	1000	1820	104	110	7.3	7.4	7.0	14.5	11.0	91
MAR 28...	1200	1250	122	124	7.4	7.5	13.0	20.5	9.9	95
APR 23...	0930	878	160	175	7.6	7.6	17.5	23.5	8.3	88
MAY 29...	1000	891	168	172	7.7	7.5	20.0	21.5	7.1	81
JUN 27...	1045	180	230	250	7.8	7.5	26.0	32.0	6.2	78
JUL 25...	0930	561	139	138	7.4	7.3	25.0	27.5	6.2	77
AUG 28...	1030	159	242	245	7.5	7.5	27.0	34.0	4.9	63
SEP 25...	1100	380	170	169	7.5	7.3	17.5	18.5	6.9	74

MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT LAB MG/L AS CACO3	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)
OCT 25...	7.0	22	0.6	--	78	12	66	6
NOV 28...	16	19	1.5	<20	56	10	46	23
DEC 27...	4.0	9	0.9	20	66	3	63	<1
JAN 30...	46	24	0.4	3300	38	0	38	52
FEB 28...	14	12	1.3	--	--	--	42	7
MAR 28...	8.0	14	0.9	490	56	9	47	--
APR 23...	15	18	0.2	170	70	8	62	22
MAY 29...	52	12	1.6	2200	66	2	64	87
JUN 27...	18	19	1.7	--	70	0	73	25
JUL 25...	32	20	0.3	3300	50	5	45	45
AUG 28...	23	23	1.3	490	80	11	69	27
SEP 25...	40	25	2.1	2800	60	11	49	35

DATE	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 25...	0.600	<0.030	--	0.40	1.0	0.250	2.7
NOV 28...	0.550	0.060	--	<0.10	--	0.110	3.2
DEC 27...	0.450	<0.030	--	0.20	0.65	0.050	1.8
JAN 30...	0.340	<0.030	--	0.29	0.63	0.130	--
FEB 28...	0.420	<0.030	--	0.10	0.52	0.100	2.7
MAR 28...	0.390	<0.030	--	0.10	0.49	0.120	2.3
APR 23...	0.440	0.050	0.37	0.42	0.86	0.250	3.1
MAY 29...	0.510	0.060	1.1	1.2	1.7	0.290	6.3
JUN 27...	0.800	0.090	0.51	0.60	1.4	1.29	7.7
JUL 25...	0.480	0.050	0.35	0.40	0.88	0.560	4.8
AUG 28...	0.740	0.040	0.46	0.50	1.2	1.20	6.7
SEP 25...	0.740	0.180	0.0	0.04	0.78	0.610	7.9

MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	82	75	213	198	138	134	152	97	100	87	120	111
2	75	67	209	199	142	137	101	88	124	101	122	111
3	70	66	212	202	145	141	119	101	131	116	111	83
4	83	70	209	199	141	139	140	116	124	104	84	73
5	105	84	208	202	143	139	139	113	105	75	92	77
6	128	107	215	200	155	141	124	114	93	74	106	92
7	133	128	223	198	160	157	116	102	104	94	120	104
8	142	134	219	197	168	140	111	106	119	104	126	118
9	153	139	194	177	141	131	104	92	127	119	124	98
10	152	150	176	152	137	134	102	95	122	94	99	79
11	163	151	154	146	142	133	114	101	93	65	92	72
12	167	155	156	151	140	131	113	109	69	61	105	92
13	181	165	170	155	130	107	112	101	95	70	119	107
14	178	168	176	164	107	105	126	110	118	97	129	121
15	187	173	182	143	119	107	139	126	126	104	138	131
16	188	171	143	108	122	118	149	139	98	56	136	78
17	197	180	105	81	125	121	165	150	55	45	79	60
18	202	174	101	81	135	124	173	165	---	---	62	55
19	189	165	116	102	144	137	174	164	---	---	64	55
20	183	165	130	117	145	143	174	150	---	---	79	65
21	184	172	139	130	149	145	144	96	---	---	93	80
22	175	169	140	129	161	142	95	77	113	101	105	95
23	195	173	144	86	151	141	102	79	108	93	115	105
24	196	181	84	71	154	146	118	101	92	88	122	116
25	192	183	97	74	---	---	125	111	92	90	132	121
26	196	184	113	98	---	---	109	84	95	92	130	124
27	207	187	126	113	---	---	92	81	102	96	131	121
28	205	192	140	127	---	---	105	92	112	102	126	120
29	207	187	149	135	154	148	118	104	---	---	137	124
30	207	191	133	128	169	155	116	86	---	---	138	132
31	207	198	---	---	174	150	87	79	---	---	142	134
MONTH	207	66	223	71	174	105	174	77	131	45	142	55

MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.—Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.8	6.6	7.6	7.5	7.7	7.6	---	---	7.6	7.4	7.4	7.4
2	6.6	6.6	7.7	7.5	7.6	7.6	---	---	7.7	7.6	7.5	7.4
3	6.6	6.6	7.9	7.6	7.8	7.6	7.6	7.3	7.7	7.6	7.4	7.2
4	6.8	6.6	7.9	7.7	7.9	7.8	7.7	7.6	7.6	7.5	7.2	7.1
5	6.8	6.8	7.9	7.7	7.8	7.7	7.7	7.5	7.5	7.4	7.2	7.1
6	7.2	6.8	7.8	7.5	7.7	7.6	7.6	7.4	7.4	7.4	7.4	7.1
7	7.4	7.2	7.5	7.4	7.6	7.5	7.5	7.4	7.6	7.3	7.4	7.4
8	7.4	7.3	7.5	7.4	7.6	7.4	7.6	7.5	7.7	7.6	7.5	7.4
9	7.5	7.4	7.5	7.4	7.5	7.4	7.7	7.6	7.7	7.7	7.4	7.4
10	7.6	7.5	7.6	7.4	7.5	7.5	7.7	7.6	7.7	7.4	7.4	7.3
11	7.6	7.5	7.6	7.3	7.5	7.5	7.8	7.7	7.4	7.1	7.3	7.2
12	7.6	7.4	7.5	7.3	7.7	7.4	7.8	7.6	7.2	7.1	7.3	7.2
13	7.5	7.3	7.5	7.4	7.8	7.7	7.6	7.6	7.3	7.2	7.4	7.3
14	7.4	7.3	7.5	7.5	7.8	7.7	7.6	7.6	7.6	7.3	7.4	7.3
15	7.3	7.1	7.5	7.2	7.8	7.7	7.7	7.6	7.7	7.5	7.4	7.4
16	7.5	7.3	7.7	7.2	7.8	7.3	7.7	7.7	7.4	6.9	7.4	7.0
17	7.4	7.2	7.7	7.1	7.6	7.5	7.7	7.7	6.9	6.8	7.0	6.8
18	7.4	7.2	7.4	7.1	7.6	7.5	7.7	7.7	---	---	6.8	6.7
19	7.5	7.4	7.3	7.1	7.5	7.5	7.7	7.7	---	---	6.8	6.7
20	7.6	7.5	7.4	7.3	7.7	7.5	7.7	7.6	---	---	7.1	6.8
21	7.7	7.4	7.4	7.3	7.7	7.6	7.6	7.4	---	---	7.3	7.1
22	7.4	7.3	7.5	7.3	7.8	7.7	7.3	7.2	7.7	7.3	7.4	7.3
23	7.5	7.3	7.6	7.3	7.8	7.5	7.3	7.2	7.7	7.5	7.6	7.4
24	7.5	7.2	7.5	7.3	7.5	7.4	7.5	7.3	7.4	7.3	7.6	7.5
25	7.4	7.2	7.4	7.2	---	---	7.6	7.5	7.4	7.3	7.6	7.5
26	7.4	7.2	7.3	7.2	---	---	7.5	7.4	7.4	7.4	7.6	7.5
27	7.4	7.2	7.2	7.1	---	---	7.4	7.3	7.4	7.3	7.6	7.5
28	7.4	7.2	7.3	7.1	---	---	7.5	7.3	7.4	7.3	7.6	7.6
29	7.5	7.3	7.6	7.3	8.0	7.8	7.6	7.6	---	---	7.6	7.5
30	7.6	7.4	7.8	7.5	---	---	7.6	7.5	---	---	7.5	7.5
31	7.5	7.3	---	---	---	---	7.5	7.4	---	---	7.6	7.5
MONTH	7.7	6.6	7.9	7.1	8.0	7.3	7.8	7.2	7.7	6.8	7.6	6.7

MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.5	18.0	15.0	13.5	9.0	8.5	--	--	9.0	7.5	10.0	9.5
2	19.5	18.5	13.5	12.5	8.5	8.0	--	--	11.0	9.0	10.0	10.0
3	20.0	19.0	13.0	12.0	8.0	6.5	--	--	13.0	11.0	11.0	10.0
4	20.0	19.5	12.0	10.5	6.0	5.5	--	--	13.5	13.0	11.5	11.0
5	19.0	18.0	12.0	10.0	5.5	5.0	--	--	13.0	11.5	11.5	11.0
6	18.5	17.5	12.5	11.5	7.0	5.0	--	--	11.0	10.0	12.0	10.5
7	18.5	18.0	13.0	12.5	8.0	7.0	--	--	11.0	10.0	12.0	11.5
8	18.0	17.0	14.5	13.0	8.5	8.0	--	--	11.0	10.5	12.0	10.5
9	17.0	16.0	15.0	14.5	8.5	8.0	--	--	11.5	11.0	10.5	10.0
10	16.0	15.0	14.5	13.5	8.0	7.5	--	--	12.5	12.0	11.5	10.0
11	15.5	14.5	13.5	12.5	7.5	7.0	--	--	12.0	11.0	13.5	11.5
12	16.0	14.5	13.5	12.5	7.5	7.0	--	--	11.0	10.5	15.5	13.5
13	17.0	15.5	13.5	12.0	7.0	6.0	--	--	11.0	10.5	16.0	15.0
14	18.0	16.5	13.5	13.0	6.0	5.5	--	--	12.0	10.5	17.0	15.5
15	18.5	17.0	15.0	13.5	5.5	5.0	7.0	5.5	13.5	12.0	17.0	16.5
16	18.5	17.5	15.0	13.5	5.0	3.5	8.5	7.0	14.5	13.5	17.0	16.0
17	19.5	18.5	13.0	10.0	3.0	3.0	10.5	8.5	14.0	13.5	16.0	15.0
18	19.0	17.5	10.0	9.0	3.5	3.0	12.0	10.5	--	--	15.5	15.0
19	17.5	14.0	9.0	8.5	4.0	3.5	12.5	12.0	--	--	15.0	14.0
20	14.0	12.0	9.5	8.5	4.5	3.5	12.5	12.0	--	--	14.0	12.0
21	12.0	11.0	10.5	9.5	4.0	3.5	12.0	12.0	--	--	12.0	11.0
22	12.5	11.0	9.5	9.0	3.0	1.0	12.0	10.5	12.0	10.5	12.0	10.5
23	13.5	11.5	9.0	8.0	.5	.0	10.5	9.0	12.5	12.0	13.5	12.0
24	14.0	12.0	7.5	7.0	.5	.0	9.5	9.0	12.0	10.5	14.5	13.5
25	14.0	12.5	7.0	6.5	--	--	10.5	9.5	10.5	9.0	15.0	14.0
26	14.5	12.5	9.0	7.5	--	--	10.5	9.0	8.5	7.5	15.0	13.5
27	14.5	12.5	11.5	9.0	--	--	9.0	8.0	8.5	7.5	13.5	12.5
28	14.5	12.5	13.0	12.0	--	--	8.5	7.5	9.5	8.5	13.5	12.5
29	14.5	13.0	13.0	11.5	3.0	2.0	9.5	8.5	--	--	13.5	13.5
30	15.0	13.0	11.5	9.5	5.0	3.0	9.5	8.5	--	--	13.5	13.0
31	15.0	14.0	--	--	--	--	8.5	7.5	--	--	14.0	13.0
MONTH	20.0	11.0	15.0	6.5	9.0	.0	12.5	5.5	14.5	7.5	17.0	9.5

MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.9	6.2	10.1	8.9	10.6	10.3	---	---	11.6	11.5	10.6	10.0
2	6.3	6.1	10.2	8.9	10.9	10.6	---	---	11.5	10.9	10.0	9.7
3	6.1	5.9	11.4	9.2	11.1	10.8	---	---	10.8	10.1	9.7	9.3
4	6.0	5.9	11.8	9.6	11.6	11.1	---	---	10.1	9.7	9.3	8.9
5	6.1	5.7	11.7	9.7	11.7	11.5	---	---	10.4	9.7	9.1	8.5
6	8.0	6.2	11.4	9.3	11.6	11.3	---	---	10.6	10.2	9.6	8.7
7	8.1	8.0	9.2	8.6	11.3	11.0	---	---	11.0	10.2	9.6	9.4
8	8.3	8.0	9.0	8.4	11.0	10.4	---	---	11.1	10.3	9.9	9.4
9	8.6	8.3	8.4	8.2	10.8	10.5	---	---	10.5	10.3	10.1	9.8
10	9.0	8.6	8.9	8.3	11.2	10.8	---	---	10.3	9.7	10.1	9.8
11	9.1	8.9	9.3	8.9	11.4	11.2	---	---	10.0	9.7	9.7	9.0
12	9.1	8.9	9.5	9.3	11.4	11.3	---	---	10.2	9.9	9.0	8.8
13	9.0	8.3	9.5	9.3	11.5	11.3	---	---	10.1	9.7	9.0	8.7
14	8.3	8.0	9.3	9.0	11.8	11.5	---	---	10.6	9.8	9.0	8.7
15	8.1	7.9	9.0	8.5	12.0	11.8	12.3	12.1	10.4	9.8	8.7	8.3
16	8.0	7.7	8.5	8.1	12.3	11.9	12.0	11.6	9.8	8.5	8.5	8.0
17	7.7	7.1	9.4	8.3	12.7	12.3	11.5	11.0	8.6	8.4	8.0	7.5
18	7.5	7.0	9.7	8.9	12.7	12.5	10.9	10.4	---	---	7.8	7.5
19	8.0	7.5	10.6	9.0	12.4	12.1	10.4	10.2	---	---	8.0	7.7
20	9.1	8.1	10.6	10.5	12.1	12.0	10.5	10.2	---	---	8.9	8.0
21	9.4	9.1	10.5	10.2	12.2	12.1	10.4	10.0	---	---	10.2	9.1
22	9.7	9.4	10.3	10.2	12.6	12.1	10.5	10.0	10.4	9.5	10.5	10.2
23	9.7	9.4	10.3	10.1	13.0	12.6	10.9	10.1	9.5	9.0	10.2	9.7
24	9.5	9.2	10.6	10.3	13.1	13.0	11.6	11.1	9.5	9.2	9.6	9.2
25	9.5	9.2	10.6	10.1	---	---	11.4	11.0	10.7	9.6	9.2	9.0
26	9.5	9.1	10.7	10.5	---	---	11.3	11.0	11.3	10.8	9.2	9.0
27	9.7	9.2	10.5	9.6	---	---	11.5	11.2	11.5	11.2	9.7	9.2
28	9.9	9.1	9.6	9.2	---	---	11.9	11.3	11.2	10.6	9.8	9.6
29	10.0	9.3	9.5	9.2	12.2	12.0	11.8	10.9	---	---	9.6	9.3
30	10.4	9.2	10.3	9.5	12.0	11.4	11.3	10.8	---	---	9.4	9.1
31	9.9	9.0	---	---	---	---	11.6	11.3	---	---	9.5	9.3
MONTH	10.4	5.7	11.8	8.1	13.1	10.3	12.3	10.0	11.6	8.4	10.6	7.5

MOBILE RIVER BASIN

02387050 CONASAUGA RIVER NEAR RESACA, GA.

LOCATION.--Lat 34°35'36", long 84°56'02", Gordon County, Hydrologic Unit 03150101, at bridge on State Highway 136, 1.1 mi northeast of Resaca, and 5.1 mi upstream from the confluence with Coosawattee River.

DRAINAGE AREA.--706 mi².

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 25...	0945	550	180	186	7.3	7.5	13.0	16.5	9.1	87
NOV 28...	1000	1600	128	126	7.3	7.1	13.5	20.0	9.4	92
DEC 27...	1100	750	146	132	7.8	7.6	0.0	9.5	13.6	95
JAN 30...	1130	4850	104	106	7.1	7.2	9.5	12.5	11.2	100
FEB 28...	1100	3200	102	108	7.4	7.3	7.0	16.0	10.8	89
MAR 28...	1130	2100	120	121	7.4	7.4	13.0	20.0	9.3	89
APR 23...	0845	910	166	185	7.5	7.5	17.5	23.0	8.0	85
MAY 29...	0930	1000	172	181	7.6	7.5	19.0	21.0	8.2	91
JUN 27...	0845	--	220	233	7.8	7.5	25.5	27.0	5.7	71
JUL 25...	0850	770	130	134	7.4	7.4	25.0	27.0	6.0	74
AUG 28...	1000	355	250	248	7.4	7.5	27.0	33.0	4.7	60
SEP 25...	1030	570	170	172	7.5	7.3	18.5	16.5	7.0	76

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CaCO3)	HARD- NESS NONCARB WH WAT TOT LAB MG/L AS CaCO3	ALKA- LITY WAT WH TOT FET LAB MG/L AS CaCO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 25...	9.0	0.6	500	72	8	64	0.670	0.070	0.350	2.6
NOV 28...	17	1.5	<20	52	5	47	0.490	0.070	0.120	5.8
DEC 27...	4.0	0.9	<20	68	5	63	0.470	<0.030	0.020	1.7
JAN 30...	52	0.6	2200	40	16	24	0.360	0.030	0.150	6.3
FEB 28...	16	1.1	--	46	5	41	0.390	<0.030	0.090	3.8
MAR 28...	10	1.0	280	48	1	47	0.380	<0.030	<0.030	2.2
APR 23...	18	0.2	230	62	1	61	0.580	0.080	0.400	4.8
MAY 29...	52	1.4	3300	74	9	65	0.550	0.080	0.310	7.4
JUN 27...	15	1.6	--	92	17	75	0.720	0.090	0.790	4.7
JUL 25...	33	0.3	4900	52	7	45	0.420	0.030	0.470	4.6
AUG 28...	21	1.0	110	90	21	69	0.890	<0.030	1.19	7.6
SEP 25...	46	2.0	2300	60	10	50	0.710	0.120	0.550	7.0

MOBILE RIVER BASIN

02387500 OOSTANAULA RIVER AT RESACA, GA.

LOCATION.--Lat 34°34'42", long 84°56'29", Gordon County, Hydrologic Unit 03150103, on downstream side of center pier of bridge on U.S. Highway 41 at Resaca, 200 ft downstream from Nashville, Chattanooga, & St. Louis Railway bridge, 0.8 mi upstream from Camp Creek, and 3.5 mi downstream from confluence of Conasauga and Coosawattee Rivers.
DRAINAGE AREA.--1,600 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1892 to current year. Monthly discharge only for October, 1892, published in WSP 1304. Gage-height records collected at same site since 1892 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 697: 1896-1928. WSP 1504: 1897-1903, 1905-07, 1909, 1912-13, 1914-15(M), 1916-18, 1919(M), 1920-22. 1923(M), 1924, 1927, 1929-30, 1932, 1933(M), 1936(M), 1938(M), 1946-47(M). WDR GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 604.14 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Since June 1, 1979, auxiliary water-stage recorder at Calhoun water-works intake 6.5 mi downstream. Oct. 28, 1948, to May 31, 1979, nonrecording auxiliary gage located at State Highway 136 connector 7.1 mi downstream.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400).

AVERAGE DISCHARGE.--98 years, 2,810 ft³/s, 23.85 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,800 ft³/s Mar. 31, 1951; gage height, 34.6 ft, minimum discharge observed, 180 ft³/s Sept. 7, 8, 1925, gage height, 0.5 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1834, 36.6 ft Apr. 1, 1886, from information by Georgia Department of Archives; discharge, 68,600 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 45,500 ft³/s, Feb. 18, gage height, 32.59 ft, from floodmark in gage, 32.9 ft from outside gage reading; minimum daily discharge, 685 ft³/s, Sept. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	15200	1360	3580	8280	8600	8410	6330	3310	2350	781	1830	893		
2	18300	1420	2990	8280	6910	9120	5650	4160	2520	1170	2040	695		
3	21000	1400	2450	6720	6880	13000	4700	4110	2450	1300	2130	693		
4	20600	1380	2360	5530	10300	14100	4700	3130	2380	1350	1670	685		
5	18200	1380	2200	7750	11600	13500	4550	2520	2050	1310	1440	771		
6	12900	1400	2150	9460	11700	11100	4500	2690	1820	1270	1370	878		
7	7610	1810	2110	9590	10600	8150	4100	2390	1910	972	1570	1360		
8	6250	2640	4150	10200	7440	7720	3370	2090	2030	750	1770	1500		
9	5750	3150	5880	11100	7020	11000	3000	2230	1700	776	2030	1510		
10	5510	3140	5350	10600	11400	12900	4020	5420	1280	807	2220	1590		
11	5320	2800	4300	7930	15400	12400	3150	6280	1160	990	2040	1940		
12	5020	2630	5710	6210	16300	10500	3020	5070	1080	1350	1600	1960		
13	4380	2460	8470	5290	15100	7900	2880	3450	1210	2190	1430	4600		
14	3490	2370	7400	4160	11100	7420	2790	2880	1200	4390	1420	4190		
15	2650	3380	5160	3350	7770	7050	2700	2500	1180	4070	1380	2630		
16	1850	9640	4160	3050	17100	12500	2620	2690	1170	2590	1310	2010		
17	1830	9290	3720	2940	33500	21200	2650	2710	1170	1860	1250	1670		
18	2130	9180	3440	3000	44400	35500	1790	2760	1120	1600	1210	1550		
19	2690	7100	3330	3240	39600	30100	1520	2650	1000	1510	1200	1480		
20	2580	4270	3360	3580	29800	21100	1440	1980	1290	1920	1190	1270		
21	2170	3840	3280	9910	20900	17200	1460	1910	1340	2930	1190	1250		
22	1850	4030	3120	12400	16800	12900	1780	2080	1630	2300	1160	2100		
23	1750	9060	2430	11300	14900	9080	1970	2540	1230	2370	1270	2640		
24	1680	10400	2040	7780	14700	7790	3120	2510	1060	2490	1260	2030		
25	1570	8900	2240	9410	13200	7120	3580	2460	1030	2380	1270	1410		
26	1570	4740	2290	12300	11100	6700	4230	2370	944	2400	1220	1040		
27	1520	3570	2260	11600	9630	6670	4250	2230	911	2320	1190	884		
28	1490	4070	2160	8800	8820	6530	3950	2470	792	2010	1140	848		
29	1480	4510	2130	7050	---	6460	4040	2350	761	1780	1110	775		
30	1420	4140	2060	9540	---	6640	3890	2130	763	1330	1120	729		
31	1370	---	3780	9960	---	6540	---	2240	---	1050	1110	---		
TOTAL	181130	129460	110060	240310	432570	368300	101750	90310	42531	56316	45140	47581		
MEAN	5843	4315	3550	7752	15450	11880	3392	2913	1418	1817	1456	1586		
MAX	21000	10400	8470	12400	44400	35500	6330	6280	2520	4390	2220	4600		
MIN	1370	1360	2040	2940	6880	6460	1440	1910	761	750	1110	685		
CAL YR 1989	TOTAL	1590148	MEAN	4357	MAX	21000	MIN	834	MEAN†	4364	CFSM†	2.72	IN†	36.99
WTR YR 1990	TOTAL	1845458	MEAN	5056	MAX	44400	MIN	685	MEAN†	4957	CFSM†	3.09	IN†	42.02

†ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

MOBILE RIVER BASIN

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.62	4.05	7.54	13.28	13.61	13.43	11.04	7.15	5.60	2.64	4.86	3.09
2	23.24	4.15	6.65	13.30	11.73	14.14	10.19	8.31	5.87	3.46	5.21	2.65
3	25.48	4.13	5.77	11.47	11.70	18.01	9.01	8.25	5.76	3.71	5.36	2.65
4	25.86	4.08	5.61	10.04	15.32	19.33	9.01	6.87	5.64	3.82	4.58	2.62
5	24.40	4.09	5.34	12.70	16.58	18.87	8.83	5.88	5.08	3.74	4.17	2.83
6	20.31	4.12	5.26	14.50	16.78	16.43	8.76	6.15	4.68	3.66	4.05	3.07
7	13.49	4.84	5.19	14.63	15.62	13.14	8.24	5.66	4.85	3.06	4.40	4.03
8	10.93	6.18	8.21	15.27	12.35	12.65	7.22	5.15	5.05	2.57	4.75	4.27
9	10.31	6.99	10.48	16.10	11.86	16.07	6.65	5.38	4.45	2.63	5.20	4.30
10	10.01	6.98	9.82	15.65	16.44	18.03	8.14	9.89	3.68	2.70	5.50	4.45
11	9.78	6.43	8.50	12.88	20.57	17.55	6.91	10.97	3.45	3.09	5.21	5.05
12	9.42	6.17	10.24	10.88	21.57	15.59	6.70	9.47	3.29	3.81	4.45	5.08
13	8.61	5.90	13.49	9.75	20.82	12.87	6.47	7.35	3.55	5.28	4.15	8.83
14	7.45	5.76	12.29	8.31	17.11	12.33	6.32	6.46	3.53	8.62	4.14	8.34
15	6.20	7.24	9.59	7.21	12.74	11.90	6.17	5.84	3.48	8.21	4.06	6.06
16	4.91	14.65	8.32	6.75	23.10	18.03	6.04	6.16	3.46	6.09	3.95	5.02
17	4.88	14.33	7.72	6.57	29.69	25.82	6.09	6.19	3.47	4.91	3.82	4.41
18	5.38	14.22	7.34	6.68	32.32	30.06	4.63	6.28	3.38	4.46	3.75	4.18
19	6.26	11.88	7.18	7.05	31.73	29.66	4.13	6.08	3.13	4.29	3.75	4.06
20	6.09	8.47	7.22	7.49	29.59	27.69	3.98	4.96	3.70	5.00	3.71	3.66
21	5.44	7.89	7.11	14.90	26.88	25.19	4.02	4.84	3.80	6.62	3.72	3.63
22	4.91	8.12	6.86	17.42	23.70	21.41	4.61	5.15	4.33	5.64	3.67	5.13
23	4.74	14.06	5.72	16.29	21.82	16.77	4.94	5.90	3.58	5.75	3.86	6.08
24	4.62	15.46	5.08	12.67	21.06	13.29	6.83	5.86	3.26	5.93	3.86	5.04
25	4.42	13.92	5.41	14.39	19.41	11.98	7.54	5.77	3.19	5.76	3.86	3.93
26	4.43	9.03	5.49	17.36	16.61	11.48	8.42	5.63	3.01	5.79	3.77	3.20
27	4.33	7.52	5.44	16.65	14.67	11.44	8.44	5.39	2.94	5.67	3.72	2.88
28	4.28	8.20	5.28	13.79	13.85	11.28	8.05	5.79	2.67	5.16	3.61	2.79
29	4.26	8.78	5.22	11.88	---	11.19	8.17	5.60	2.60	4.78	3.55	2.63
30	4.15	8.29	5.10	14.58	---	11.41	7.95	5.23	2.60	3.96	3.59	2.52
31	4.07	---	7.59	14.99	---	11.28	---	5.40	---	3.42	3.56	---
MEAN	9.78	8.20	7.29	12.43	19.26	16.72	7.12	6.42	3.90	4.65	4.19	4.22
MAX	25.86	15.46	13.49	17.42	32.32	30.06	11.04	10.97	5.87	8.62	5.50	8.83
MIN	4.07	4.05	5.08	6.57	11.70	11.19	3.98	4.84	2.60	2.57	3.55	2.52
WTR YR 1990		MEAN	8.63	MAX	32.32	MIN	2.52					

MOBILE RIVER BASIN

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1969 to June 1974, April 1981 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: July 1967 to September 1984.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 28.5°C Aug. 21, 1980; minimum recorded, 1.0°C Jan. 9-14, 1970, Jan. 16, 17, 21-24, Feb. 1, 1977, Jan. 12, 13, 1981, Dec. 31, 1983.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
NOV					
02...	0931	1420	9.5	11	42
02...	0936	1420	9.5	13	50
DEC					
06...	0934	2160	8.5	8	47
06...	0939	2160	8.5	7	41
JAN					
18...	1330	3000	11.0	31	251
18...	1335	3000	11.0	30	243
FEB					
16...	1356	17700	--	193	9200
17...	1247	35100	--	127	12000
17...	1252	35100	--	117	11100
18...	1234	45300	--	115	14100
18...	1239	45300	--	113	13800
19...	1342	39100	--	114	12000
19...	1347	39100	--	129	13600
21...	1231	20100	--	30	1630
21...	1236	20100	--	28	1520
23...	1141	14800	--	87	3480
23...	1146	14800	--	88	3520
MAY					
29...	0945	2350	21.0	51	324
29...	0950	2350	21.0	50	318
JUN					
28...	0824	810	23.0	23	50
28...	0829	810	23.0	24	52
SEP					
03...	0822	1160	24.5	24	75
03...	0827	1160	24.5	25	78
28...	0835	845	19.0	20	46
28...	0840	845	19.0	23	52

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
FEB			
16...	1351	17700	88
19...	1342	39100	91
19...	1343	39100	84

MOBILE RIVER BASIN

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

WATER-QUALITY RECORDS

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
FEB											
21...	1350	20000	<1	1	10	68	98	99	99	100	--
21...	1351	20000	<1	<1	2	44	97	100	--	--	--
21...	1352	20000	<1	<1	<1	2	13	38	53	61	78
21...	1353	20000	<1	<1	<1	1	21	87	98	99	100
21...	1354	20000	<1	<1	1	3	9	52	79	89	98
SEP											
26...	1025	1030	<1	1	6	15	46	82	97	100	--

MOBILE RIVER BASIN

02387502 OOSTANAULA RIVER BELOW RESACA, GA.

LOCATION.--Lat 34°34'17", long 84°56'49", Gordon County, Hydrologic Unit 03150103, at bridge on Interstate Highway 75, 0.4 mi west of Resaca, and 0.4 mi upstream from Camp Creek.

DRAINAGE AREA.--1,600 mi².

PERIOD OF RECORD.--August 1974 to current year.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Flow regulated by Carters Lake and Carters re-regulation reservoir (see "Lakes and Reservoirs in Mobile River Basin", stations 02381400 and 02382400). Discharge obtained from gaging station 02387500, Oostanaula River at Resaca, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 25...	1030	1580	112	116	7.4	7.4	14.5	17.0	8.6	85
NOV 28...	1030	4060	84	83	7.4	7.2	14.0	20.0	9.1	90
DEC 27...	1040	2230	100	107	7.5	7.4	2.0	9.0	12.9	95
JAN 30...	1110	9620	80	82	7.2	7.3	9.0	12.0	10.6	94
FEB 28...	1145	8820	52	53	7.3	6.9	8.0	17.0	11.4	96
MAR 28...	1100	6570	57	55	7.3	7.2	12.0	15.0	10.8	101
APR 23...	0915	1890	145	159	7.2	7.5	18.0	23.0	8.3	89
MAY 29...	0900	2360	118	120	7.5	7.4	19.5	21.0	7.6	85
JUN 27...	0800	917	112	114	7.2	7.4	22.0	24.0	7.5	88
JUL 25...	0830	2400	76	75	7.2	7.2	22.5	26.0	7.4	87
AUG 28...	0930	1140	88	86	7.3	7.3	26.0	33.0	6.7	84
SEP 25...	1015	1420	99	99	7.4	7.3	19.0	16.0	7.3	80

MOBILE RIVER BASIN

02387502 OOSTANAULA RIVER BELOW RESACA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT LAB MG/L AS CACO3	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 25...	7.0	0.7	490	48	5	43	0.400	0.040	0.100	1.2
NOV 28...	17	1.3	<20	34	3	31	0.320	0.040	0.050	2.6
DEC 27...	4.0	1.2	20	44	6	38	0.440	<0.030	<0.020	1.7
JAN 30...	38	0.7	1700	26	0	27	0.340	0.070	0.140	2.7
FEB 28...	38	1.1	--	24	8	16	0.270	<0.030	0.090	2.7
MAR 28...	16	0.9	130	--	--	18	0.290	<0.030	0.700	1.5
APR 23...	19	0.6	270	60	10	50	0.490	<0.030	0.270	3.4
MAY 29...	40	1.1	1100	26	0	45	0.440	<0.030	0.210	3.6
JUN 27...	10	1.4	--	38	0	38	0.380	<0.030	0.240	2.6
JUL 25...	22	0.5	490	28	3	25	0.270	<0.030	0.200	3.8
AUG 28...	13	0.7	110	36	11	25	0.230	<0.030	0.190	3.0
SEP 25...	27	2.2	490	38	6	32	0.320	0.040	0.150	4.8

MOBILE RIVER BASIN

02388320 HEATH CREEK BELOW ROCKY MOUNTAIN DAMSITE, NEAR ARMUCHEE, GA.

LOCATION.--Lat 34°21'18", long 85°15'50", Floyd County, Hydrologic Unit 03150103, on right bank 0.6 mi downstream from bridge on Antioch Road, 3.4 mi upstream from Little Armuchee Creek, 5.2 mi west of Armuchee, and 9.7 mi northwest of Rome.

DRAINAGE AREA.--16.6 mi².

PERIOD OF RECORD.--March 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 637.00 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company).

REMARKS.--Estimated daily discharges: Oct. 2-Nov. 1, Nov. 27-Dec. 5, Mar. 10-15. Records good, except those for the periods Aug. 10-21 and Sept. 14-30, and those for the periods of estimated daily discharges, which are fair. Peak flow regulated by power company cofferdam since early 1970's.

AVERAGE DISCHARGE.--8 years, 27.5 ft³/s, 22.53 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 944 ft³/s, Feb. 16, 1990, gage height, 8.32 ft; minimum daily discharge, 0.65 ft³/s, Aug. 19, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1245	430	5.47	Feb. 16	0330	*944	*8.32
Nov. 15	2100	596	6.48	Mar. 16	1000	768	7.43
Feb. 4	0645	406	5.31				

Minimum daily discharge, 1.9 ft³/s, Sept. 6, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	395	6.8	25	91	64	32	22	12	11	3.0	2.7	2.3
2	260	6.8	23	64	59	118	20	10	11	3.2	2.7	2.3
3	70	7.5	20	52	65	152	18	9.4	21	2.7	3.1	2.2
4	45	6.6	18	60	315	95	18	8.6	16	2.5	3.6	2.1
5	37	6.6	16	57	134	69	17	9.5	12	2.7	3.4	2.2
6	31	17	16	101	89	53	17	8.1	11	2.6	4.6	1.9
7	25	43	16	97	74	44	19	7.6	11	2.2	2.8	2.0
8	21	57	113	139	57	155	16	6.9	9.8	2.0	2.6	2.0
9	18	46	83	103	74	189	15	44	9.9	2.6	3.1	1.9
10	16	32	65	74	307	160	16	111	9.8	2.1	9.3	2.8
11	14	25	54	59	159	120	19	46	8.6	2.1	4.8	5.3
12	12	20	170	48	97	110	15	32	7.8	3.0	4.2	2.7
13	10	18	124	40	68	90	14	35	7.4	7.2	3.8	5.3
14	9.0	21	82	36	55	70	13	25	7.1	6.9	3.5	6.5
15	8.0	159	65	33	146	60	14	21	8.0	4.8	3.8	5.0
16	12	351	49	30	762	638	13	19	7.7	3.9	3.4	3.6
17	14	117	40	28	574	634	12	17	6.9	3.6	3.2	3.3
18	20	76	36	37	476	506	11	15	7.3	3.8	3.4	3.1
19	24	55	36	30	208	217	10	14	7.1	3.4	3.2	2.7
20	18	44	32	80	108	97	9.8	20	6.3	3.8	2.8	2.7
21	15	36	29	201	85	77	19	92	6.0	3.6	2.5	2.6
22	13	121	25	102	101	65	17	39	5.7	5.1	2.4	2.8
23	12	187	21	70	82	53	13	29	5.7	4.7	2.3	2.6
24	11	100	20	73	64	45	11	24	5.2	4.2	2.3	2.3
25	10	72	21	232	51	38	10	20	5.1	3.4	2.3	2.4
26	9.3	56	21	141	44	37	9.7	18	4.7	3.0	2.2	2.1
27	8.5	45	20	90	40	37	8.9	17	3.9	2.8	2.3	2.1
28	8.0	38	19	68	35	33	26	18	3.4	2.7	2.1	2.0
29	8.0	30	18	149	---	36	20	15	3.3	2.7	2.1	2.1
30	7.0	28	23	125	---	34	14	13	3.9	2.7	3.3	2.0
31	7.0	---	105	84	---	29	---	12	---	3.4	2.3	---
TOTAL	1167.8	1828.3	1405	2594	4393	4093	457.4	768.1	243.6	106.4	100.1	84.9
MEAN	37.7	60.9	45.3	83.7	157	132	15.2	24.8	8.12	3.43	3.23	2.83
MAX	395	351	170	232	762	638	26	111	21	7.2	9.3	6.5
MIN	7.0	6.6	16	28	35	29	8.9	6.9	3.3	2.0	2.1	1.9
CFSM	2.27	3.67	2.73	5.04	9.46	7.95	.92	1.49	.49	.21	.20	.17
IN.	2.62	4.10	3.15	5.81	9.84	9.17	1.02	1.72	.55	.24	.22	.19

CAL YR 1989	TOTAL	17758.9	MEAN	48.7	MAX	493	MIN	4.7	CFSM	2.93	IN	39.79
WTR YR 1990	TOTAL	17241.6	MEAN	47.2	MAX	762	MIN	1.9	CFSM	2.84	IN	38.64

MOBILE RIVER BASIN

02388500 OOSTANAULA RIVER NEAR ROME, GA.

LOCATION.--Lat 34°18'02", long 85°08'30", Floyd County, Hydrologic Unit 03150103, on left bank 1.2 mi upstream from Dry Creek, 4.5 mi north of Rome, 4.5 mi upstream from confluence with Etowah River, and 6.5 mi downstream from Armuchee Creek.

DRAINAGE AREA.--2,120 mi².

PERIOD OF RECORD.--October 1939 to current year. Gage-height records collected at site 4.2 mi downstream since 1890 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 561.70 ft above National Geodetic Vertical Datum of 1929. Oct. 1, 1939, to Dec. 7, 1950, water-stage recorder at site 3.2 mi downstream at same datum. Since Oct. 1, 1939, auxiliary water-stage recorder at Fifth Avenue Bridge, 4.2 mi downstream. Nonrecording gage at site of auxiliary gage used as base gage for records published as Coosa River at Rome, Jan. 1, 1897, to Dec. 31, 1903.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Carters Lake and Carters Re-regulation Dam since 1975. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.) Records of chemical analyses for the water years 1968-74, are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--51 years, 3,623 ft³/s, 23.21 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,000 ft³/s, Jan. 23, 1947, gage height, 34.10 ft; maximum gage height, 36.47 ft, Mar. 18, 1990, minimum daily discharge, 408 ft³/s, Oct. 25, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1834, 40.3 ft in April 1886, at site of present auxiliary gage, from information by Georgia Department of Archives.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 42,600 ft³/s, Feb. 20; gage height, 35.70 ft; maximum gage height, 36.47 ft, Mar. 18 (backwater from Coosa River), minimum daily discharge, 792 ft³/s, July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17400	1650	4150	9170	11600	9490	6840	3880	2410	910	1380	1240
2	18400	1660	3750	9730	9600	9970	6330	3720	2570	888	1970	997
3	21700	1680	3140	8830	8490	13600	5630	4390	2950	1180	2170	855
4	22300	1760	2720	6760	13200	15300	4830	3910	2980	1240	2120	888
5	21300	1650	2470	7550	15300	15600	4780	3490	2490	1280	1690	887
6	21400	1660	2370	10400	14000	14800	4660	3020	2140	1230	1560	969
7	19400	2100	2310	11900	13500	12200	4600	3040	1980	1180	1580	1170
8	12000	3260	4380	13100	11400	9790	4160	2440	2060	926	1630	1470
9	6820	3630	7190	13700	8890	12700	3490	2530	2090	792	1930	1560
10	5750	3650	7230	13300	12500	14900	3720	7440	1860	910	2270	1590
11	5370	3390	5920	11800	18800	15000	3900	8830	1400	934	2400	1770
12	5110	3240	6600	8770	19100	14200	3460	6860	1260	1140	2060	2090
13	4650	2950	9740	7390	18200	11200	3230	5230	1190	1630	1720	2760
14	4010	2590	10200	6510	16800	8900	3210	4270	1280	3690	1540	5130
15	3500	3120	7640	5130	13800	8080	3110	3220	1560	4670	1520	3810
16	2750	11700	5740	4240	26400	14900	2880	3020	1350	3870	1490	2650
17	2170	13200	4770	3930	40600	29000	2880	3090	1270	2390	1420	2000
18	2290	11200	4130	3930	38400	33500	2620	3210	1240	1910	1360	1670
19	2870	10000	3810	4190	40800	37100	2010	3080	1170	1720	1350	1550
20	2930	6450	3700	4880	42300	38000	1830	2950	1100	1710	1350	1480
21	2780	4440	3610	11500	40500	36700	1910	2690	1310	2420	1310	1320
22	2260	4430	3390	14800	36100	33400	1940	2370	1390	2910	1310	1410
23	1960	9510	3130	14300	30300	27700	2020	2540	1590	2500	1310	2520
24	1950	12000	2570	12700	26900	20000	2340	2810	1220	2480	1360	2560
25	1890	11800	2450	12600	22500	12400	3610	2730	1110	2510	1380	1890
26	1810	9160	2420	15400	18000	8290	3910	2680	1050	2430	1360	1380
27	1800	4870	2440	15100	14000	7500	4340	2640	1000	2420	1320	1100
28	1930	4180	2410	13600	10900	7170	4300	2790	970	2290	1320	1020
29	1800	4660	2330	10900	---	6910	4850	2840	874	2100	1250	968
30	1650	4650	2450	11500	---	7050	4680	2530	879	1870	1240	854
31	1610	---	4090	11900	---	6990	---	2340	---	1380	1250	---
TOTAL	223560	160240	133250	309510	592880	512340	112070	110580	47743	59510	48920	51558
MEAN	7212	5341	4298	9984	21170	16530	3736	3567	1591	1920	1578	1719
MAX	22300	13200	10200	15400	42300	38000	6840	8830	2980	4670	2400	5130
MIN	1610	1650	2310	3930	8490	6910	1830	2340	874	792	1240	854
CAL YR 1989	TOTAL	2017780	MEAN	5528	MAX	23700	MIN	1030	MEAN†	5535	CFSM†	2.62
WTR YR 1990	TOTAL	2362161	MEAN	6472	MAX	42300	MIN	792	MEAN†	6373	CFSM†	3.01
											IN†	35.54
											IN†	40.92

†ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

MOBILE RIVER BASIN

02388520 OOSTANAULA RIVER AT ROME, GA.

LOCATION.--Lat 34°16'13", long 85°10'24", Floyd County, Hydrologic Unit 03150103, at Southern Railway bridge at pumping station at City of Rome waterworks, 1.2 mi upstream from confluence with Etowah River.

DRAINAGE AREA.--2,150 mi², approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Flow regulated by Carters Lake and Carters Re-regulation Dam (see "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400). Laboratory analyses are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Discharge obtained from gaging station 02388500, Oostanaula River near Rome, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 24...	1000	2230	136	143	7.3	7.3	17.5	19.0	7.6	80
NOV 29...	0945	4930	102	99	7.3	7.1	12.5	8.0	9.4	89
DEC 28...	1230	2460	120	126	7.3	7.3	3.0	19.5	12.2	92
JAN 31...	1300	12300	83	85	7.0	7.4	10.0	20.0	9.7	87
FEB 27...	1030	14700	67	69	7.3	--	7.5	9.5	10.3	85
MAR 27...	1150	7710	76	76	7.1	7.2	13.5	21.0	9.5	92
APR 23...	1500	2140	155	171	7.0	7.5	19.0	27.0	8.4	92
MAY 30...	0930	2530	128	118	7.4	7.4	20.5	21.0	7.2	82
JUN 26...	0750	895	139	144	7.6	7.4	24.0	25.0	6.5	79
JUL 26...	1140	2640	95	94	7.3	7.2	24.0	29.0	6.9	83
AUG 29...	1530	1350	110	103	7.5	7.5	27.0	38.0	8.0	103
SEP 27...	1115	1220	125	126	7.5	7.4	20.0	27.5	7.1	80

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CaCO3)	HARD- NESS NONCARB WAT WH TOT LAB MG/L AS CaCO3	ALKA- LINITY TOT FET LAB MG/L AS CaCO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 24...	7.0	0.8	230	56	3	53	4	0.500	0.040	0.170	7.0
NOV 29...	18	1.8	<20	52	15	37	20	0.400	0.040	0.100	2.4
DEC 28...	6.0	1.6	50	52	5	47	4	0.480	0.040	0.020	4.2
JAN 31...	39	1.0	790	30	0	30	66	0.340	0.090	0.120	2.9
FEB 27...	30	1.0	330	28	5	23	22	0.290	0.120	0.060	4.6
MAR 27...	17	0.1	260	--	--	28	23	0.340	<0.030	0.140	2.7
APR 23...	12	0.3	1300	66	3	63	18	0.480	<0.030	0.170	2.8
MAY 30...	24	2.0	230	50	4	46	34	0.470	<0.030	0.150	2.8
JUN 26...	14	0.9	170	54	4	50	25	0.550	0.070	0.280	3.6
JUL 26...	26	0.5	90	34	2	32	34	0.360	<0.030	0.320	3.2
AUG 29...	11	1.2	170	34	0	35	20	0.250	<0.030	0.230	<1.0
SEP 27...	20	1.3	460	53	8	45	17	0.410	<0.030	0.310	4.2

MOBILE RIVER BASIN

02388530 OOSTANULA RIVER AT 5TH AVENUE, AT ROME, GA.

LOCATION.--Lat 34°15'24", long 85°10'18", Floyd County, Hydrologic Unit 03150103, at Fifth Avenue Bridge at Rome, and 0.3 mi upstream from confluence with Etowah River.

DRAINAGE AREA.--2,150 mi², approximately.

PERIOD OF RECORD.--October 1939 to current year. October 1971 to current year in reports of U.S. Geological Survey. Gage-height records since 1890 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 561.70 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Flow regulated by Carters Lake and re-regulation dam since 1975. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400).

EXTREMES FOR PERIOD OF RECORD.--Since October 1939, maximum gage height, 34.5 ft, Jan. 22, 1947. From 1890 to September 1939, maximum gage height, 37.2 ft, Jan. 15, 1892.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height since at least 1834, 40.3 ft in April 1886, from information by Georgia Department of Archives.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 34.25 ft, Mar. 18.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.31	8.44	10.59	11.57	17.63	17.15	16.17	8.69	7.16	4.81	5.70	3.99
2	27.12	8.46	9.67	12.99	15.99	17.33	15.76	8.81	7.28	4.41	6.37	3.44
3	25.57	8.52	6.45	12.82	14.81	21.05	14.57	9.17	5.78	4.22	6.67	3.23
4	23.06	8.16	6.41	11.48	17.38	21.74	13.64	8.83	5.74	3.82	5.52	4.23
5	23.18	4.65	7.53	11.97	18.87	21.23	13.52	8.44	6.84	3.85	5.14	4.26
6	23.25	4.91	7.43	14.56	18.93	20.61	13.36	5.98	6.53	4.25	4.21	4.32
7	22.64	7.33	7.38	15.22	18.79	19.06	13.36	5.89	6.37	4.21	4.40	5.58
8	19.18	8.93	9.73	15.90	17.50	17.67	12.93	6.93	6.41	3.43	5.78	4.93
9	14.83	9.13	11.83	18.13	15.89	20.20	12.29	7.11	6.51	3.22	6.41	4.13
10	13.55	9.01	11.16	17.58	20.77	21.04	11.95	10.88	4.80	4.95	7.41	4.06
11	13.14	8.45	10.18	16.48	22.40	20.81	12.29	12.52	4.31	4.76	7.16	5.16
12	12.87	6.34	13.44	14.26	20.70	19.70	11.10	12.16	5.03	4.85	4.98	5.44
13	12.55	6.33	17.24	12.29	20.44	18.29	10.49	10.19	4.48	4.80	4.48	6.13
14	13.16	8.09	16.37	8.84	21.33	16.58	9.68	7.06	4.53	6.67	5.19	8.76
15	12.75	8.74	14.45	8.07	20.61	15.85	7.35	8.30	5.35	7.43	5.15	7.24
16	10.91	15.17	12.20	8.64	27.10	23.44	7.53	7.29	4.88	6.59	5.08	5.31
17	10.27	17.05	8.26	8.26	32.22	32.55	8.89	7.34	4.15	6.92	4.96	4.59
18	10.40	14.77	7.87	8.55	31.02	33.71	8.73	7.41	4.06	6.37	4.88	5.75
19	10.98	12.27	8.61	8.67	30.71	31.01	8.10	7.31	4.65	6.20	3.90	5.66
20	11.04	10.12	8.69	9.14	31.24	29.79	7.90	5.91	4.54	6.28	3.87	5.59
21	9.75	11.51	8.48	17.73	30.57	29.02	7.60	6.21	4.73	6.90	4.77	5.44
22	7.66	11.77	8.23	18.81	29.49	27.91	5.29	6.97	4.80	5.72	4.79	4.72
23	7.59	17.42	7.66	18.87	29.17	26.13	5.75	7.65	5.01	5.24	4.79	4.94
24	8.88	18.43	6.32	17.81	26.79	24.46	7.62	7.89	3.96	6.54	4.84	5.04
25	8.85	17.09	5.85	18.29	24.53	20.70	8.22	7.82	3.78	6.56	4.83	5.31
26	8.79	12.17	7.29	20.90	23.37	18.03	8.86	7.70	4.20	6.45	3.85	4.80
27	8.79	8.88	7.34	20.44	21.20	17.20	9.23	5.61	4.11	6.51	3.80	4.48
28	8.17	10.66	7.30	18.89	18.64	16.72	9.29	6.13	4.06	6.30	5.50	4.84
29	4.79	11.02	7.18	16.84	---	16.42	7.75	7.16	3.94	4.69	4.70	4.35
30	4.98	11.02	7.10	18.16	---	16.52	7.48	7.37	4.34	4.50	4.70	3.19
31	8.35	---	7.26	18.53	---	16.39	---	7.13	---	5.75	4.70	---
MEAN	13.50	10.49	9.21	14.54	22.79	21.56	10.22	7.87	5.08	5.39	5.11	4.96
MAX	27.12	18.43	17.24	20.90	32.22	33.71	16.17	12.52	7.28	7.43	7.41	8.76
MIN	4.79	4.65	5.85	8.07	14.81	15.85	5.29	5.61	3.78	3.22	3.80	3.19

WTR YR 1990 MEAN 10.83 MAX 33.71 MIN 3.19

MOBILE RIVER BASIN

02389000 ETOWAH RIVER NEAR DAWSONVILLE, GA.

LOCATION.--Lat 34°22'57", long 84°03'21", Dawson County, Hydrologic Unit 03150104, at bridge on State Highway 53, 4 mi southeast of Dawsonville. The stilling well for the discontinued gage is located on the left bank, 0.5 mi upstream from the bridge.

DRAINAGE AREA.--107 mi².

PERIOD OF RECORD.--November 1970 to current year. Water-discharge records for water years 1940-76 are published in reports of the U.S. Geological Survey.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM)	PH (STAND-ARD UNITS)	PH LAB (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAR 21...	0800	985	18	19	7.1	7.5	9.0	11.0	98
JUL 30...	0600	180	22	22	7.2	7.7	22.0	7.6	90

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L)
MAR 21...	12	15	5	0	0.98	0.60	1.1	28	0.2	0.90	5.0
JUL 30...	7	2.9	5	0	1.3	0.53	1.5	34	0.3	0.70	8.8

DATE	SULFATE DIS-SOLVED (MG/L SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
MAR 21...	1.4	1.1	<0.10	7.5	15	--	--	--	0.200	0.200	0.010	0.010
JUL 30...	<1.0	1.2	0.30	9.6	16	--	--	--	<0.100	<0.100	0.010	<0.010

DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN DIS-SOLVED (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)
MAR 21...	0.19	--	0.20	<0.20	0.40	--	0.030	<0.010	2.1	30	<1	<1
JUL 30...	0.19	--	0.20	<0.20	--	--	0.010	0.010	1.8	40	<1	<1

MOBILE RIVER BASIN

02389000 ETOWAH RIVER NEAR DAWSONVILLE, GA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAR 21...	1.0	<1	1	77	4	<1	15	<0.10	0.1	<1	46
JUL 30...	<1.0	<1	2	140	1	1	17	<0.10	0.1	<2	7

MOBILE RIVER BASIN

02392000 ETOWAH RIVER AT CANTON, GA.

LOCATION.--Lat 34°14'23", long 84°29'47", Cherokee County, Hydrologic Unit 03150104, on left bank 100 ft downstream from bridge on State Highway 5 spur and 140 at Canton, 0.8 mi upstream from Canton Creek, and 1.8 mi downstream from Hickory Log Creek.
DRAINAGE AREA.--613 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1892 to September 1905 (prior to October 1896, gage heights only), October 1936 to current year. Monthly discharge only for January to March 1896, published in WSP 1304. Gage heights collected at same site since 1892 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1906: 1946(M). WDR GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 844.55 ft above National Geodetic Vertical Datum of 1929. March 1892 to December 1905, nonrecording gage at site 100 ft upstream at datum 2.0 ft higher. Mar. 16, 1937 to Jan. 17, 1939, nonrecording gage at site 100 ft upstream at present datum. Water-stage recorder at Allatoona Reservoir is used as an auxiliary gage for this station during periods of backwater caused by Allatoona Reservoir.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--63 years (water years 1897-1905, 1937-90), 1,234 ft³/s, 27.34 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,300 ft³/s, Jan. 7, 1946, gage height, 26.7 ft; minimum discharge, 120 ft³/s, July 23, 24, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 36,700 ft³/s, January 1892, gage height, 25.0 ft, present datum, from National Weather Service. Maximum stage known since 1892, Jan. 7, 1946.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 2	0500	23,300	24.22	Feb. 17	0400	9,720	16.09
Jan. 21	1300	6,780	12.81	Mar. 3	1000	6,900	12.96
Jan. 25	2200	8,730	15.10	Mar. 17	2300	*27,100	*25.33
Feb. 10	1900	9,060	15.44				

Minimum discharge, 336 ft³/s, Sept. 8, 9, gage height, 1.67 ft.

MOBILE RIVER BASIN

02392000 ETOWAH RIVER AT CANTON, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16600	891	1100	3570	2050	2340	2640	1670	1300	657	595	422
2	21600	880	1080	2220	1960	2960	2640	1570	1300	694	600	412
3	9210	875	1050	1760	1930	6150	2710	1520	1340	679	614	395
4	5650	858	1010	1660	3250	3790	2700	1510	1410	617	614	371
5	4980	848	1010	1950	3610	2990	2550	1570	1280	596	587	355
6	4440	915	1000	2290	2560	2680	2430	1530	1190	581	613	350
7	4010	1230	995	2250	2330	2510	2390	1440	1140	568	575	347
8	3650	1480	1590	2120	2160	2580	2190	1400	1110	556	537	339
9	3260	1370	2160	2060	2180	3740	2090	1530	1070	627	594	341
10	2900	1200	2010	1830	7080	4100	2060	2630	1060	633	1060	410
11	2560	1040	1660	1680	5500	3060	2310	2130	1020	759	793	441
12	2220	962	2190	1580	3300	2710	2090	1710	971	796	593	420
13	1900	921	3100	1490	2730	2540	1980	1600	937	1060	536	2950
14	1550	925	2070	1430	2490	2430	1940	1560	926	1880	520	3150
15	1310	1180	1710	1400	2350	2350	1960	1460	926	1880	524	1930
16	1200	2740	1550	1380	5410	5690	1910	1400	1050	1180	503	1040
17	1160	1990	1420	1360	7830	21900	1850	1380	960	903	471	737
18	1210	1460	1360	1390	4060	21600	1810	1400	924	850	457	627
19	1280	1290	1340	1430	4890	8280	1750	1330	882	872	448	564
20	1190	1180	1340	1590	3960	5810	1720	1400	834	964	445	539
21	1070	1120	1290	5710	3280	4880	1750	1900	802	1120	435	531
22	1030	1220	1230	3440	3140	4120	1790	1560	807	1030	463	1900
23	998	3120	1160	2380	3480	3780	1760	1400	823	990	633	1420
24	967	2130	1080	2090	3080	3390	1710	1350	819	1010	563	853
25	954	1600	1180	6320	2810	2990	1650	1300	761	835	487	680
26	935	1420	1140	5960	2620	2840	1600	1280	735	767	460	611
27	918	1330	1120	3180	2490	2850	1570	1420	719	711	441	572
28	911	1280	1100	2540	2410	2620	1700	1790	710	671	425	538
29	901	1240	1090	2330	---	2520	2240	1940	710	650	405	526
30	893	1150	1260	2610	---	2690	1800	1570	683	640	409	514
31	892	---	1910	2250	---	2660	---	1370	---	611	437	---
TOTAL	102349	39845	44305	75250	94940	145550	61290	48620	29199	26387	16837	24285
MEAN	3302	1328	1429	2427	3391	4695	2043	1568	973	851	543	810
MAX	21600	3120	3100	6320	7830	21900	2710	2630	1410	1880	1060	3150
MIN	892	848	995	1360	1930	2340	1570	1280	683	556	405	339
CFSM	5.39	2.17	2.33	3.96	5.53	7.66	3.33	2.56	1.59	1.39	.89	1.32
IN.	6.21	2.42	2.69	4.57	5.76	8.83	3.72	2.95	1.77	1.60	1.02	1.47
CAL YR 1989	TOTAL	541359	MEAN	1483	MAX	21600	MIN	523	CFSM	2.42	IN	32.85
WTR YR 1990	TOTAL	708857	MEAN	1942	MAX	21900	MIN	339	CFSM	3.17	IN	43.02

MOBILE RIVER BASIN

02392000 ETOWAH RIVER AT CANTON, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.91	2.89	3.27	8.13	5.18	5.75	7.88	4.42	3.61	2.44	2.23	1.90
2	23.54	2.87	3.22	5.53	5.00	6.89	7.34	4.22	3.61	2.51	2.25	1.87
3	14.99	2.86	3.17	4.60	4.95	11.96	6.95	4.10	3.71	2.48	2.28	1.83
4	11.30	2.83	3.11	4.39	7.46	8.52	6.52	4.08	3.87	2.35	2.28	1.77
5	10.38	2.81	3.10	4.99	8.19	7.03	6.16	4.21	3.57	2.31	2.22	1.72
6	9.61	2.93	3.09	5.64	6.18	6.42	5.92	4.13	3.41	2.27	2.27	1.71
7	8.95	3.48	3.08	5.58	5.74	6.08	5.85	3.94	3.33	2.24	2.19	1.70
8	8.30	4.02	4.24	5.32	5.40	6.22	5.47	3.85	3.27	2.22	2.12	1.68
9	7.55	3.76	5.41	5.20	5.44	8.40	5.27	4.12	3.20	2.37	2.23	1.69
10	6.85	3.42	5.11	4.75	12.99	9.02	5.20	6.32	3.19	2.38	3.16	1.87
11	6.18	3.15	4.40	4.43	11.01	7.16	5.70	5.34	3.12	2.64	2.71	1.95
12	5.52	3.02	5.46	4.23	7.63	6.49	5.27	4.50	3.04	2.71	2.30	1.89
13	4.88	2.95	7.24	4.03	6.53	6.14	5.05	4.28	2.98	3.19	2.17	6.81
14	4.17	2.95	5.22	3.91	6.05	5.93	4.96	4.20	2.96	4.84	2.14	7.35
15	3.64	3.42	4.51	3.84	5.77	5.77	5.00	3.99	2.96	4.85	2.15	4.93
16	3.41	6.55	4.17	3.79	10.54	10.57	4.92	3.85	3.17	3.39	2.10	3.14
17	3.35	5.06	3.89	3.75	13.93	23.38	4.79	3.79	3.02	2.85	2.02	2.60
18	3.43	3.97	3.75	3.83	8.99	23.32	4.70	3.85	2.95	2.75	1.99	2.37
19	3.57	3.58	3.71	3.92	10.24	14.46	4.58	3.67	2.88	2.79	1.96	2.24
20	3.40	3.39	3.70	4.23	8.83	12.89	4.53	3.83	2.79	2.98	1.96	2.18
21	3.21	3.29	3.58	11.33	7.59	12.69	4.59	4.88	2.73	3.28	1.93	2.16
22	3.14	3.51	3.48	7.85	7.34	12.64	4.67	4.18	2.74	3.10	2.00	4.87
23	3.08	7.28	3.36	5.83	7.98	12.62	4.61	3.85	2.77	3.03	2.39	3.90
24	3.03	5.34	3.22	5.26	7.21	12.30	4.50	3.73	2.76	3.07	2.23	2.82
25	3.01	4.28	3.38	11.95	6.68	11.93	4.38	3.62	2.65	2.71	2.06	2.48
26	2.97	3.89	3.33	11.62	6.30	11.36	4.28	3.56	2.59	2.57	1.99	2.34
27	2.94	3.69	3.29	7.40	6.05	10.78	4.22	3.87	2.56	2.46	1.95	2.25
28	2.93	3.56	3.26	6.15	5.89	10.07	4.49	4.66	2.55	2.39	1.91	2.18
29	2.91	3.49	3.24	5.73	---	9.47	5.57	4.97	2.55	2.34	1.85	2.15
30	2.90	3.34	3.56	6.28	---	9.05	4.68	4.21	2.49	2.32	1.87	2.12
31	2.89	---	4.89	5.58	---	8.49	---	3.78	---	2.27	1.94	---
MEAN	6.35	3.72	3.92	5.78	7.54	10.12	5.27	4.19	3.03	2.78	2.16	2.68
MAX	23.54	7.28	7.24	11.95	13.93	23.38	7.88	6.32	3.87	4.85	3.16	7.35
MIN	2.89	2.81	3.08	3.75	4.95	5.75	4.22	3.56	2.49	2.22	1.85	1.68
CAL YR 1989	MEAN	3.91	MAX	23.54	MIN	2.14						
WTR YR 1990	MEAN	4.78	MAX	23.54	MIN	1.68						

MOBILE RIVER BASIN

02392000 ETOWAH RIVER AT CANTON, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: June 1971 to September 1976.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 26.0°C July 24, 1972; minimum recorded, 2.5°C Dec. 26, 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC 28...	1440	1100	37	33	6.7	6.8	4.0	21.0	12.2	95
JUL 24...	0750	1070	40	41	7.2	7.1	23.5	27.0	7.7	93
SEP 25...	0815	688	47	50	7.1	7.1	16.0	12.0	8.7	91

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC 28...	3.0	1.5	230	13	0.350	0.180	<0.020	1.3
JUL 24...	26	0.2	2300	13	0.200	<0.030	0.090	6.5
SEP 25...	39	1.0	640	15	0.230	0.040	0.050	4.1

MOBILE RIVER BASIN

02394000 ETOWAH RIVER AT ALLATOONA DAM, ABOVE CARTERSVILLE, GA.

LOCATION.--Lat 34°09'47", long 84°44'28", Bartow County, Hydrologic Unit 03150104, on right bank 0.8 mi downstream from Allatoona Dam, 2 mi upstream from Nashville, Chattanooga, & St. Louis Railway bridge, and 3 mi east of Cartersville.

DRAINAGE AREA.--1,120 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1938 to current year. Prior to October 1949, published as Etowah River above Cartersville.

REVISED RECORDS.--WSP 1032: 1944. WDR GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 686.92 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Dec. 19, 1938, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Allatoona Reservoir since December 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.)

AVERAGE DISCHARGE.--52 years, 1,899 ft³/s, 23.04 in/yr, adjusted for storage since 1950.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,400 ft³/s, Jan. 8, 1946, gage height 20.8 ft, from rating curve extended above 26,000 ft³/s; minimum daily discharge, 152 ft³/s, Oct. 15, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,200 ft³/s, Mar. 29, gage height, 8.18 ft; minimum daily discharge, 272 ft³/s, Aug. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	449	5890	5080	2030	6370	7420	10000	3530	3130	1600	2900	289		
2	351	5860	374	2460	6090	7600	9490	3220	324	927	2860	303		
3	2090	5920	373	2920	4360	7600	8680	3240	324	312	1230	1610		
4	4910	504	2960	2940	342	7590	8630	3240	2590	314	1400	1600		
5	7450	342	2960	2960	5060	7580	8630	298	2590	928	298	1600		
6	7480	3260	2980	367	6170	7590	8590	297	2590	932	592	3250		
7	7520	3280	2990	363	5950	7580	8630	2470	2570	308	2560	1620		
8	7520	3260	3000	4890	6220	7660	8640	2490	2620	307	2560	468		
9	7540	3270	363	4890	6430	7650	8270	2490	331	2670	2540	314		
10	7470	3280	363	4890	559	7580	7640	2490	333	2100	2540	1620		
11	7510	345	4670	4900	335	7590	7670	4510	1630	1920	272	1620		
12	7520	343	6080	4930	3360	6340	6330	3670	957	951	286	1630		
13	8650	3610	6020	341	5390	7590	5990	316	950	320	1560	1640		
14	9870	3650	5610	336	7820	7640	1660	3550	1710	316	1550	998		
15	8580	3680	5650	2650	5450	7650	2080	2350	964	313	1550	326		
16	7610	3660	365	2650	359	1830	4410	2370	324	2980	1540	333		
17	7620	3670	353	2630	333	380	4410	2360	324	2860	1550	2550		
18	7680	429	2320	2650	335	335	4420	2370	1270	2870	280	2540		
19	7740	427	2310	2640	330	841	4430	322	1270	2790	280	2550		
20	7780	6160	2300	632	328	829	4440	325	1270	2870	1560	2550		
21	3580	6410	2290	361	855	1770	275	2380	1280	313	1560	1390		
22	3390	6480	2310	5220	2440	2760	274	3590	1280	314	1570	327		
23	5930	6500	1120	5230	1890	5160	3210	3590	315	2380	1570	333		
24	5960	6480	355	2290	3020	7150	3200	3600	315	2380	1570	1590		
25	5990	604	2660	370	5590	8410	3240	3630	941	2380	286	1590		
26	6020	363	2650	4090	7390	10000	3250	324	939	2390	276	1590		
27	6060	5100	2640	5070	7310	10100	3260	329	931	2400	2770	2290		
28	328	5120	2660	5060	7350	10100	288	2080	939	315	1580	1600		
29	324	5150	2680	5780	---	10100	288	3110	1560	315	1590	333		
30	5580	5230	358	7980	---	10100	2880	3120	2240	2870	1580	333		
31	5790	---	354	7930	---	10000	---	3130	---	2890	596	---		
TOTAL	182292	108277	77198	102450	107436	202525	153205	74791	38811	47535	44856	40787		
MEAN	5880	3609	2490	3305	3837	6533	5107	2413	1294	1533	1447	1360		
MAX	9870	6500	6080	7980	7820	10100	10000	4510	3130	2980	2900	3250		
MIN	324	342	353	336	328	335	274	297	315	307	272	289		
MEAN†	4358	2243	2269	4453	6194	8008	3006	2293	1193	1182	739	1259		
CFSM†	3.89	2.00	2.03	3.98	5.53	7.15	2.69	2.05	1.07	1.06	0.66	1.12		
IN†	4.49	2.23	2.34	4.58	5.76	8.24	2.99	2.36	1.19	1.22	0.76	1.25		
CAL YR 1989	TOTAL	865301	MEAN	2371	MAX	9870	MIN	264	MEAN†	2357	CFSM†	2.10	IN†	28.57
WTR YR 1990	TOTAL	1180163	MEAN	3233	MAX	10100	MIN	272	MEAN†	3087	CFSM†	2.76	IN†	37.41

†ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

MOBILE RIVER BASIN

02394000 ETOWAH RIVER AT ALLATOONA DAM, ABOVE CARTERSVILLE, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC 27...	0950	8340	49	50	6.6	6.9	5.5	7.5	10.4	84
JAN 31...	1450	7960	48	47	7.0	7.1	9.0	22.0	10.0	88
MAR 27...	0940	10100	38	38	6.5	7.0	13.0	13.0	10.6	102
MAY 30...	0715	324	44	42	6.7	6.6	15.0	14.5	6.6	67
JUL 24...	0900	315	50	47	6.4	6.6	21.0	27.5	4.8	55
SEP 27...	0850	333	55	51	6.4	7.0	23.5	19.5	5.0	60

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CaCO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
DEC 27...	7.0	0.9	80	15	4	0.310	0.070	<0.020	3.1	360	54
JAN 31...	21	0.9	230	14	10	0.370	0.050	0.070	2.0	890	48
MAR 27...	18	0.1	80	12	9	0.330	<0.030	0.200	2.9	950	20
MAY 30...	4.0	0.4	<20	14	3	0.320	<0.030	<0.030	3.0	270	26
JUL 24...	3.0	0.1	250	17	1	0.240	<0.030	0.030	1.9	300	300
SEP 27...	5.0	1.6	50	13	2	0.080	0.120	0.050	4.1	370	59

MOBILE RIVER BASIN

02394670 ETOWAH RIVER NEAR CARTERSVILLE, GA.

LOCATION.--Lat 34°08'34", long 84°50'20", Bartow County, Hydrologic Unit 03150104, on downstream side of bridge pier on State Highway 61, 3 mi southwest of Cartersville, 9.6 mi downstream from Allatoona Reservoir Dam, and at mile 38.22.

DRAINAGE AREA.--1,345 mi².

PERIOD OF RECORD.--November 1985 to current year (gage heights only). Gage-height records collected from May 1937 to Nov. 22, 1939 at site 200 ft upstream and from Nov. 1939 until at least 1961 at same site are contained in reports of National Weather Service. Gage-height records collected at same site since December 1949 and discharge measurements for the period August 1945 to May 1975 in files of the U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 650.81 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Stage affected by Allatoona Reservoir Dam since December 1949.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded gage height, 17.96 ft, March 17, 1990; minimum recorded, 4.06 ft, Sept. 10, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1886 reached a stage of 37.0 ft, information supplied by U.S. Weather Service; flood of Dec. 19, 1919 reached a stage of 31.0 ft, information supplied by local resident; flood of Nov. 29, 1948 reached a stage of 30.0 ft from U.S. Weather Service stage records; minimum observed, 3.8 ft, Sept. 25, 1939, from U.S. Weather Service stage records.

EXTREMES FOR CURRENT PERIOD.--November 1985 to September 1986: Maximum recorded gage height, 14.54 ft, Dec. 4; minimum recorded, 4.06 ft, Sept. 10.

Water year 1987: Maximum gage height, 15.17 ft, Jan. 26; minimum 4.19 ft, July 9 and Sept. 3.

Water year 1988: Maximum recorded gage height, 14.41 ft, Jan. 21; minimum recorded, 4.23 ft, July 9 and Sept. 3.

Water year 1989: Maximum recorded gage height, 14.83 ft, June 20; minimum recorded, 4.32 ft, Oct. 1.

Water year 1990: Maximum recorded gage height, 17.96 ft, Mar. 17; minimum recorded, 4.35 ft, Sept. 1, 8, 26, 27, and 29.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	5.45	6.14	4.74	4.73	5.72	5.61	---	4.81	4.78	4.73
2		---	8.45	6.16	4.76	4.75	5.75	5.61	---	4.83	4.73	4.76
3		---	11.22	6.13	5.41	5.30	5.72	4.80	---	4.79	4.71	4.76
4		---	11.59	4.86	5.79	5.24	5.74	4.61	---	4.76	4.73	5.07
5		---	8.85	4.77	5.19	5.23	5.08	5.22	---	4.61	4.70	4.97
6		---	8.68	6.24	5.43	5.22	4.74	---	---	4.59	4.71	4.81
7		---	5.33	6.22	5.83	5.22	5.45	---	---	4.80	4.73	4.77
8		---	4.83	6.21	5.15	4.60	5.75	---	---	4.77	4.73	4.77
9		---	7.81	6.26	4.76	4.63	5.78	---	---	4.77	4.71	4.73
10		---	7.99	6.19	5.81	5.00	5.78	---	---	4.75	4.77	4.63
11		---	7.99	4.74	5.81	5.19	5.74	---	---	4.75	4.80	4.72
12		---	8.12	4.75	6.23	5.20	5.00	---	---	4.53	4.76	4.79
13		---	8.57	6.22	5.81	5.55	4.72	---	---	4.57	4.73	4.70
14		8.31	5.60	6.21	5.83	5.97	5.34	---	---	4.77	4.72	4.74
15		8.33	5.07	6.20	4.91	5.45	5.69	---	---	4.79	4.71	4.74
16		5.21	7.36	4.74	4.92	4.99	5.67	---	---	4.67	4.66	4.71
17		4.77	7.67	6.17	5.90	5.23	5.65	---	---	4.67	4.68	4.71
18		9.47	6.24	4.72	5.98	5.36	5.66	---	---	4.74	4.76	4.70
19		10.09	5.85	4.86	6.05	5.58	5.04	---	---	4.71	4.70	4.71
20		8.32	5.85	5.99	5.97	5.78	4.69	---	---	4.74	4.74	4.67
21		8.45	4.81	5.86	5.89	5.70	5.33	---	---	4.76	4.94	4.78
22		8.50	4.82	5.83	4.85	5.20	5.68	---	---	4.75	4.80	4.68
23		5.30	6.61	5.83	4.85	4.93	5.68	---	---	4.73	4.69	4.68
24		4.82	6.83	5.79	5.84	5.51	5.66	---	---	4.74	4.69	4.69
25		7.99	6.80	4.74	5.88	5.82	5.65	---	---	4.73	4.73	4.68
26		8.47	8.19	4.83	5.83	5.80	5.03	---	5.61	4.70	4.68	4.68
27		8.48	8.19	5.92	5.82	5.78	4.67	---	5.60	4.79	4.74	4.63
28		8.51	5.05	5.81	5.80	5.78	5.44	---	4.57	5.13	4.78	4.66
29		8.61	4.79	5.83	---	5.13	5.62	---	4.61	4.83	4.74	4.70
30		5.67	6.04	5.85	---	4.78	5.63	---	4.79	4.76	4.68	4.66
31		---	6.14	5.80	---	5.38	---	---	---	4.72	4.70	---
MEAN		---	6.99	5.67	5.54	5.29	5.44	---	---	4.74	4.73	4.73
MAX		---	11.59	6.26	6.23	5.97	5.78	---	---	5.13	4.94	5.07
MIN		---	4.79	4.72	4.74	4.60	4.67	---	---	4.53	4.66	4.63

MOBILE RIVER BASIN

02394670 ETOWAH RIVER NEAR CARTERSVILLE, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.01	4.66	6.98	8.56	4.97	9.24	7.96	5.68	6.33	5.78	4.59	5.48
2	4.68	4.59	7.99	8.59	10.17	8.00	7.82	4.74	6.27	6.37	4.58	5.46
3	4.67	4.85	7.58	5.22	10.64	10.22	7.86	4.76	6.04	6.35	6.71	5.47
4	4.62	5.01	7.49	4.72	10.61	10.04	5.70	5.70	6.03	4.74	6.80	5.47
5	4.65	5.02	7.63	6.82	10.60	9.94	5.19	5.67	6.06	4.78	6.78	4.51
6	4.67	5.03	5.11	6.55	10.63	9.95	6.83	5.75	4.71	7.18	4.77	4.53
7	4.65	5.08	4.70	7.45	5.45	5.67	6.80	5.67	4.66	7.20	5.52	5.20
8	4.65	4.80	6.77	6.74	5.01	5.01	6.77	5.66	5.96	7.62	4.74	5.58
9	4.68	4.62	6.95	6.95	8.20	12.02	6.74	4.71	5.95	7.26	4.66	5.59
10	4.66	4.96	7.11	4.92	7.76	13.38	6.73	4.71	5.56	7.24	7.13	5.54
11	4.48	5.06	7.27	4.69	7.16	13.40	4.93	6.40	5.55	6.60	6.35	4.87
12	4.52	5.06	7.50	6.10	7.16	11.56	4.83	5.66	5.54	4.71	4.69	4.57
13	4.75	5.03	5.92	6.15	7.11	11.21	6.62	5.68	4.65	7.38	6.71	4.55
14	4.84	5.12	4.87	6.17	4.81	6.01	6.70	5.64	5.14	5.69	6.68	5.24
15	4.82	4.61	8.23	6.18	4.80	4.93	6.72	5.65	6.99	5.55	4.61	5.59
16	4.75	4.63	8.79	6.17	5.86	7.59	6.69	4.76	5.13	5.56	4.59	5.56
17	4.72	5.21	8.81	4.76	5.92	7.91	6.68	4.73	6.88	5.52	6.97	4.93
18	4.56	5.34	8.83	6.52	5.86	8.02	4.90	5.63	6.88	4.63	6.99	5.21
19	4.54	5.34	8.89	10.93	5.83	8.54	4.86	5.64	6.84	4.64	7.33	4.87
20	4.63	5.51	5.44	9.43	5.82	8.37	6.47	5.64	4.83	5.89	8.32	4.55
21	4.69	5.84	4.75	10.79	4.81	5.55	6.86	5.69	4.76	5.89	8.47	4.58
22	4.71	5.00	8.34	11.12	4.82	5.06	7.97	5.66	6.45	6.54	4.80	5.52
23	4.71	4.81	8.22	10.74	5.85	7.61	6.79	4.72	6.13	5.96	4.57	5.54
24	4.70	5.72	8.32	5.55	5.83	7.99	6.65	4.70	6.97	5.88	6.22	5.52
25	4.95	6.10	8.40	6.30	5.80	7.97	4.97	5.58	7.11	4.61	5.51	5.52
26	5.09	6.97	8.31	12.03	5.83	7.98	4.78	5.61	7.02	4.62	5.47	4.51
27	5.02	6.58	5.14	11.14	6.67	7.95	4.80	5.59	4.78	5.89	5.47	4.52
28	4.95	6.27	4.81	10.82	9.22	5.48	5.71	5.58	4.72	7.27	5.46	5.53
29	4.92	5.25	8.06	10.72	---	5.06	5.70	5.58	4.71	6.13	4.56	5.54
30	4.88	4.82	8.57	10.68	---	6.10	5.70	4.71	5.55	5.88	4.54	5.60
31	4.90	---	8.51	5.47	---	7.63	---	4.72	---	5.88	5.47	---
MEAN	4.81	5.23	7.24	7.71	6.90	8.24	6.26	5.37	5.81	5.98	5.81	5.17
MAX	7.01	6.97	8.89	12.03	10.64	13.40	7.97	6.40	7.11	7.62	8.47	5.60
MIN	4.48	4.59	4.70	4.69	4.80	4.93	4.78	4.70	4.65	4.61	4.54	4.51
WTR YR 1987	MEAN	6.21	MAX	13.40	MIN	4.48						

MOBILE RIVER BASIN

02394670 ETOWAH RIVER NEAR CARTERSVILLE, GA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.59	4.57	5.66	5.27	6.92	5.74	5.70	4.76	5.49	5.46	---	5.48
2	5.57	5.96	5.66	4.80	7.20	5.75	4.74	4.73	5.49	4.46	---	5.50
3	4.52	5.97	5.66	4.79	7.85	5.75	4.77	4.75	5.50	4.48	---	4.53
4	4.53	5.98	5.65	5.66	8.48	5.70	4.85	4.77	4.57	5.00	---	4.68
5	5.73	5.98	4.61	5.77	8.67	4.73	4.77	4.74	4.59	4.53	---	5.52
6	5.89	5.30	4.63	5.74	6.96	4.74	4.78	4.74	5.55	5.04	---	5.59
7	5.89	5.23	5.66	5.76	5.17	6.54	4.78	4.72	5.53	5.03	---	5.55
8	5.90	4.56	5.64	5.69	7.31	5.81	4.72	4.70	5.51	5.02	---	5.52
9	5.90	5.41	5.65	5.82	7.62	5.85	4.71	4.75	5.51	4.45	---	5.52
10	4.73	5.65	5.67	4.74	7.61	5.91	4.73	4.78	5.50	4.47	---	4.53
11	4.52	5.66	5.68	4.75	7.54	5.91	4.86	4.75	4.54	5.11	---	4.55
12	5.77	5.67	4.65	5.40	6.61	4.88	6.59	4.75	4.55	5.10	---	5.39
13	5.93	5.40	4.65	5.70	4.84	4.89	5.45	4.72	5.52	---	---	5.67
14	5.92	5.00	5.67	5.77	4.84	5.92	5.07	4.67	5.52	---	---	5.64
15	5.92	4.61	5.79	6.44	5.37	5.88	4.96	4.70	5.51	---	---	5.58
16	5.68	5.44	5.88	4.99	5.32	5.84	4.86	4.73	5.51	---	---	5.57
17	4.85	6.00	5.78	5.03	5.25	5.39	4.84	4.68	5.50	---	---	4.78
18	4.56	6.02	5.72	6.60	5.23	5.75	4.93	4.68	4.56	---	---	4.65
19	5.93	5.78	4.66	6.30	5.22	4.83	5.29	4.67	4.57	---	---	5.45
20	5.94	5.70	4.68	10.23	4.66	4.78	5.27	4.64	5.53	---	---	5.55
21	5.93	4.85	5.21	11.09	4.66	5.71	5.06	4.64	5.52	---	---	5.58
22	5.94	4.65	4.70	9.97	5.21	5.66	4.96	4.66	5.53	---	---	5.57
23	5.94	6.42	4.70	8.73	5.18	5.70	4.88	4.66	5.50	---	---	5.57
24	4.54	5.85	5.29	9.05	5.17	5.68	4.95	4.67	5.49	---	---	4.76
25	4.56	4.66	5.34	11.10	5.18	5.70	4.91	4.64	4.51	---	---	4.57
26	5.96	4.65	4.75	11.08	5.21	4.80	4.85	4.66	4.51	---	5.50	5.39
27	5.96	5.64	4.75	11.09	4.70	4.81	4.89	4.62	5.49	---	4.51	5.56
28	5.95	4.64	5.89	8.75	4.71	5.71	4.83	4.62	5.46	---	4.51	5.56
29	5.97	4.65	5.65	9.04	5.71	5.68	4.76	4.61	5.46	---	5.47	5.56
30	5.97	5.67	5.39	5.53	---	5.68	4.75	4.65	5.46	---	5.47	5.56
31	4.55	---	5.31	4.83	---	5.68	---	4.62	---	---	5.51	---
MEAN	5.50	5.39	5.31	6.95	6.01	5.53	4.98	4.69	5.25	---	---	5.30
MAX	5.97	6.42	5.89	11.10	8.67	6.54	6.59	4.78	5.55	---	---	5.67
MIN	4.52	4.56	4.61	4.74	4.66	4.73	4.71	4.61	4.51	---	---	4.53
CAL YR 1987	MEAN	6.12	MAX	13.40	MIN	4.51						

MOBILE RIVER BASIN

02394670 ETOWAH RIVER NEAR CARTERSVILLE, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.74	5.45	5.64	5.01	---	8.72	5.03	6.56	7.61	9.85	7.67	6.85
2	4.71	5.52	5.64	5.61	---	8.77	4.81	6.86	5.75	8.68	8.04	4.76
3	5.86	5.48	4.84	5.75	---	9.05	6.63	6.59	4.79	8.74	7.78	4.73
4	5.98	5.48	4.63	6.95	---	5.86	7.14	6.48	4.73	8.77	7.75	6.01
5	5.73	5.02	6.33	7.44	---	8.14	8.63	6.50	6.02	9.37	5.00	6.77
6	5.64	4.80	6.68	7.09	---	6.69	9.81	4.87	6.06	11.92	4.87	5.64
7	5.61	5.40	6.59	4.96	---	7.01	9.25	4.81	6.10	11.85	6.89	6.73
8	4.77	5.53	6.61	4.76	---	9.10	5.78	6.18	6.08	11.95	5.92	6.77
9	4.59	5.52	6.62	6.70	5.79	10.54	5.89	6.36	6.03	11.56	5.03	4.68
10	5.40	5.52	4.82	7.46	6.86	10.58	9.78	6.65	4.74	11.53	6.82	4.66
11	5.59	5.50	4.61	---	4.75	5.57	9.93	6.81	4.71	11.56	6.84	6.40
12	4.76	4.79	6.01	---	4.75	4.88	9.89	7.81	5.99	11.57	4.77	6.35
13	4.57	4.63	6.17	---	5.66	9.27	8.10	4.92	6.08	11.58	4.76	6.37
14	6.12	5.42	6.18	---	5.56	9.96	8.02	4.85	6.16	11.00	7.84	6.00
15	4.80	5.62	6.17	---	5.51	9.98	5.33	6.94	6.93	5.86	6.08	5.83
16	4.57	5.61	6.19	---	4.86	9.97	4.94	7.30	7.39	5.13	8.02	5.23
17	5.36	5.64	4.75	---	4.69	9.98	6.73	6.72	5.84	11.00	7.36	4.87
18	5.56	5.64	4.60	---	4.73	5.47	7.06	6.97	7.49	9.79	7.24	5.66
19	5.55	4.81	5.62	---	4.81	4.76	7.02	7.15	8.94	9.75	4.80	5.62
20	5.53	4.67	5.62	---	5.91	6.09	7.01	4.98	10.50	10.04	4.76	5.59
21	5.55	5.44	5.66	---	7.34	6.35	7.00	4.77	9.47	10.29	7.18	5.60
22	4.77	5.64	5.65	---	7.04	6.68	5.13	5.93	9.14	9.80	7.18	5.66
23	4.56	5.61	5.65	---	6.13	8.26	4.79	4.78	9.52	8.60	7.17	4.70
24	5.30	4.81	4.73	---	5.90	7.11	6.41	5.84	8.30	9.21	7.18	4.65
25	5.41	5.38	4.65	---	4.91	5.36	6.43	5.83	10.43	9.02	7.23	6.33
26	5.40	4.80	5.61	---	4.87	5.07	6.43	5.81	13.45	8.96	4.84	7.35
27	5.41	4.66	5.69	---	8.25	6.96	6.64	4.67	12.23	8.87	5.02	7.10
28	5.44	5.43	5.68	---	7.98	7.14	7.20	4.69	12.24	8.86	6.09	7.12
29	4.74	5.72	5.71	---	---	7.06	4.93	5.59	12.28	5.37	6.05	10.10
30	4.57	5.65	5.71	---	---	7.05	4.73	5.59	12.24	4.93	6.75	---
31	5.28	---	4.81	---	---	7.12	---	7.20	---	6.20	6.08	---
MEAN	5.22	5.31	5.61	---	---	7.57	6.88	6.03	7.91	9.41	6.42	---
MAX	6.12	5.72	6.68	---	---	10.58	9.93	7.81	13.45	11.95	8.04	---
MIN	4.56	4.63	4.60	---	---	4.76	4.73	4.67	4.71	4.93	4.76	---

MOBILE RIVER BASIN

02394670 ETOWAH RIVER NEAR CARTERSVILLE, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	11.46	10.61	6.81	12.47	13.57	15.78	8.86	8.25	6.39	7.92	4.56
2	---	11.43	5.37	7.85	12.08	14.09	15.50	8.68	5.28	5.59	7.97	4.57
3	---	11.51	4.91	8.49	10.83	15.32	14.68	8.59	4.86	4.68	6.37	6.33
4	---	6.19	8.16	8.54	8.22	14.24	14.61	8.57	7.40	4.62	6.25	6.37
5	---	4.75	8.34	8.66	11.34	13.92	14.61	5.24	7.62	5.56	4.74	6.34
6	---	7.94	8.36	7.57	11.64	13.82	14.57	4.93	7.59	5.57	5.26	7.91
7	---	8.80	8.37	6.40	12.23	13.76	14.60	7.42	7.59	4.64	7.53	6.71
8	---	8.96	8.94	10.79	12.39	14.09	14.57	7.63	7.64	4.61	7.73	4.85
9	---	8.95	6.25	10.97	12.66	14.57	14.35	7.72	5.09	7.41	7.71	4.54
10	---	8.81	5.98	10.74	10.87	14.04	13.70	7.94	4.88	7.08	7.99	6.32
11	---	5.56	9.76	10.69	7.48	13.86	13.86	9.11	6.52	6.72	5.25	6.36
12	---	4.82	12.27	10.66	9.12	12.59	12.56	9.76	5.72	5.61	4.82	6.36
13	---	8.35	13.15	5.56	11.12	13.77	12.16	5.38	5.70	4.94	6.47	7.05
14	---	9.15	11.31	5.03	13.99	13.77	7.82	8.55	6.56	5.62	6.44	6.49
15	---	9.27	11.56	7.72	12.54	13.77	7.46	7.50	5.77	5.27	6.43	4.94
16	---	10.58	6.26	8.12	10.09	13.56	10.19	7.50	4.92	8.11	6.43	4.73
17	---	9.90	5.08	7.41	11.00	17.06	10.12	7.47	4.81	7.94	6.40	7.47
18	---	5.92	7.36	8.87	6.90	10.88	10.14	7.48	6.08	7.93	4.66	7.48
19	---	5.06	7.82	8.22	7.86	7.64	10.11	5.22	6.07	7.91	4.64	7.46
20	13.63	10.60	7.78	6.40	6.75	7.40	10.11	4.90	6.05	8.21	6.37	7.47
21	9.88	12.09	7.73	9.08	6.52	7.86	5.38	7.76	6.05	4.99	6.36	6.10
22	8.89	12.29	7.71	11.11	10.15	9.04	5.09	8.77	6.08	5.06	6.36	4.64
23	11.01	13.73	5.90	11.27	10.18	10.78	8.53	8.83	4.75	7.37	6.38	4.57
24	11.59	12.59	5.40	8.82	9.91	13.46	8.89	8.84	4.72	7.38	6.36	6.28
25	11.68	6.75	7.66	9.94	11.51	14.22	8.71	8.84	5.62	7.37	4.60	6.29
26	11.71	5.13	8.08	11.65	13.68	15.89	8.66	5.17	5.63	7.35	4.56	6.27
27	11.73	10.25	8.07	12.14	13.57	15.99	8.65	5.08	5.62	7.36	7.69	7.01
28	5.83	10.66	8.09	11.22	13.54	15.90	5.48	7.49	5.65	4.71	6.38	6.41
29	4.75	10.67	8.08	11.22	---	15.94	5.16	8.41	6.34	4.67	6.34	4.55
30	9.94	10.77	5.42	14.21	---	15.92	7.98	8.27	7.09	7.81	6.39	4.54
31	11.37	---	5.19	14.04	---	15.83	---	8.24	---	7.89	5.15	---
MEAN	---	9.10	7.90	9.36	10.74	13.44	10.80	7.55	6.07	6.33	6.26	6.03
MAX	---	13.73	13.15	14.21	13.99	17.06	15.78	9.76	8.25	8.21	7.99	7.91
MIN	---	4.75	4.91	5.03	6.52	7.40	5.09	4.90	4.72	4.61	4.56	4.54

MOBILE RIVER BASIN

02394969 ETOWAH RIVER AT EUHARLEE, GA.

LOCATION.--Lat 34°08'52", long 84°55'15", Bartow County, Hydrologic Unit 03150104, on downstream end of pier of bridge on Chulio Road, 0.32 mi downstream from Euharlee Creek, 0.75 mi east of Euharlee, 7.5 mi west of Cartersville, and 17.26 mi downstream from Allatoona Reservoir Dam.

DRAINAGE AREA.--1,598 mi².

PERIOD OF RECORD.--December 1985 to current year (gage height only). Gage-height records since January 1980 in files of the U.S. Army Corps of Engineers.

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

GAGE.--Water-stage recorder. Elevation of gage is 630 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Records good. Stage affected by Allatoona Reservoir Dam since December 1949.

EXTREMES FOR CURRENT PERIOD.--December 1985 to September 1986: Maximum gage height, 7.25 ft, Dec. 27; minimum 2.63 ft, July 17.

Water year 1987: Maximum gage height, 9.85 ft, Jan. 19; minimum 2.62 ft, Oct. 21, 22.

Water year 1988: Maximum gage height, 8.81 ft, Jan. 21; minimum 2.69 ft, July 8, 9.

Water year 1989: Maximum gage height, 9.97 ft, June 20; minimum 2.69 ft, Oct. 1, 29.

Water year 1990: Maximum gage height, 18.05 ft, Mar. 17; minimum 2.87 ft, July 10.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			--	3.82	3.14	3.11	3.55	3.43	3.05	3.01	3.01	3.06
2			--	3.83	3.13	3.13	3.58	3.43	3.38	3.04	2.97	3.07
3			--	3.81	3.22	3.38	3.56	3.28	3.45	3.01	2.96	3.05
4			--	3.37	3.65	3.33	3.56	2.99	3.46	2.98	2.95	3.17
5			--	3.18	3.60	3.32	3.48	3.03	3.45	2.91	2.95	3.17
6			--	3.88	3.25	3.28	3.10	3.48	3.45	2.88	2.94	3.06
7			--	3.86	3.66	3.30	3.20	3.44	3.07	2.96	2.95	3.04
8			--	3.86	3.61	2.99	3.55	3.45	2.96	2.97	2.94	3.02
9			--	3.87	3.11	2.99	3.57	3.44	3.37	2.97	2.98	3.00
10			--	3.85	3.63	3.01	3.58	3.39	3.53	2.96	3.03	2.94
11			--	3.15	3.63	3.28	3.54	2.98	3.59	3.01	3.03	2.98
12			--	3.17	3.84	3.28	3.44	3.36	3.50	2.90	2.99	3.02
13			--	3.86	3.62	3.56	3.08	3.44	3.44	2.89	2.97	2.99
14			--	3.84	3.63	3.85	3.13	3.42	3.06	2.93	2.96	3.00
15			--	3.85	3.25	3.73	3.53	3.45	2.96	3.00	2.95	3.00
16			--	3.12	3.27	3.35	3.54	3.46	3.34	2.93	2.93	2.98
17			--	3.82	3.69	3.27	3.49	3.08	3.42	2.94	2.94	2.96
18			--	3.13	3.74	3.46	3.53	3.01	3.40	2.96	2.97	2.97
19			--	3.20	3.82	3.59	3.45	3.11	3.41	2.95	2.95	2.97
20			--	3.75	3.77	3.73	3.03	3.57	3.40	2.95	2.96	2.94
21			--	3.67	3.69	3.69	3.11	3.55	3.01	2.96	3.14	3.00
22			--	3.67	3.21	3.56	3.51	3.49	2.91	2.96	3.03	3.00
23			--	3.65	3.21	3.28	3.49	3.42	3.30	2.95	2.96	2.97
24			--	3.64	3.64	3.31	3.47	3.36	3.38	3.07	2.95	2.95
25			--	3.14	3.69	3.68	3.46	2.94	3.40	2.98	2.96	2.95
26			--	3.22	3.65	3.66	3.43	3.32	3.39	3.16	2.94	2.96
27			4.82	3.71	3.64	3.64	2.99	3.47	3.39	3.00	3.07	2.93
28			3.57	3.65	3.63	3.62	3.13	3.66	3.01	3.30	3.14	2.95
29			3.20	3.65	--	3.54	3.43	4.07	2.93	3.05	3.06	2.96
30			3.60	3.67	--	3.15	3.44	3.62	3.02	3.00	3.00	2.93
31			3.81	3.64	--	3.19	--	3.14	--	2.96	3.01	--
MEAN			--	3.60	3.52	3.40	3.40	3.36	3.28	2.99	2.99	3.00
MAX			--	3.88	3.84	3.85	3.58	4.07	3.59	3.30	3.14	3.17
MIN			--	3.12	3.11	2.99	2.99	2.94	2.91	2.88	2.93	2.93

MOBILE RIVER BASIN

02394969 ETOWAH RIVER AT EUHARLEE, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.62	3.05	3.89	4.96	3.36	7.79	4.79	3.57	3.75	3.54	3.01	3.41
2	2.94	2.90	4.80	4.98	5.73	5.14	4.68	3.15	3.82	3.86	2.90	3.39
3	2.94	2.90	4.47	3.60	6.26	6.24	4.71	3.16	3.74	3.88	3.83	3.40
4	2.91	3.10	4.42	3.07	6.24	6.02	4.01	3.55	3.70	3.16	4.05	3.40
5	2.92	3.10	4.48	4.03	6.22	5.89	3.53	3.58	3.74	3.14	4.04	3.05
6	2.94	3.14	3.54	3.78	6.23	5.86	4.07	3.60	3.17	4.18	3.18	2.96
7	2.93	3.17	3.06	4.38	3.90	4.10	4.17	3.57	3.01	4.32	3.44	3.02
8	2.94	3.14	3.82	4.00	3.37	3.45	4.14	3.55	3.60	4.48	3.06	3.45
9	2.95	2.96	4.11	4.12	4.55	6.79	4.10	3.15	3.64	4.42	2.97	3.48
10	2.93	2.97	4.23	3.35	4.93	7.81	4.09	3.08	3.45	4.33	4.17	3.45
11	2.87	3.16	4.36	3.03	4.33	7.78	3.45	3.85	3.43	4.05	3.81	3.38
12	2.87	3.18	4.49	3.55	4.33	6.75	3.24	3.57	3.42	3.17	3.13	3.00
13	2.95	3.15	3.90	3.71	4.32	6.57	3.90	3.55	3.08	4.17	3.94	2.99
14	3.09	3.34	3.20	3.71	3.20	4.26	4.07	3.53	3.33	3.66	4.01	3.08
15	3.06	2.95	4.48	3.74	3.19	3.33	4.07	3.54	4.12	3.44	3.06	3.47
16	2.99	2.95	5.07	3.72	3.69	4.25	4.07	3.19	3.44	3.44	2.96	3.46
17	2.98	3.04	5.09	3.20	3.72	4.67	4.05	3.10	4.14	3.42	3.99	3.38
18	2.94	3.28	5.11	4.43	3.68	4.76	3.37	3.44	4.19	3.05	4.17	3.02
19	2.90	3.27	5.13	7.73	3.65	5.24	3.24	3.52	4.17	2.98	4.28	3.37
20	2.86	3.43	3.77	5.77	3.65	5.04	3.76	3.52	3.30	3.50	4.79	2.96
21	2.93	3.65	3.12	6.41	3.20	4.00	4.22	3.59	3.13	3.60	4.95	2.99
22	2.96	3.36	4.56	6.73	3.22	3.47	4.56	3.54	3.84	3.80	3.34	3.37
23	2.96	3.10	4.79	6.41	3.67	4.32	4.17	3.17	3.78	3.72	2.94	3.43
24	2.98	3.26	4.88	4.00	3.65	4.79	4.02	3.09	4.20	3.58	3.61	3.44
25	3.22	3.76	4.93	4.33	3.61	4.77	3.45	3.41	4.29	3.04	3.46	3.42
26	3.37	4.69	4.86	7.60	3.64	4.75	3.16	3.49	4.24	2.96	3.40	2.99
27	3.12	4.23	3.53	6.84	4.26	4.73	3.18	3.48	3.19	3.47	3.39	2.94
28	3.13	3.94	3.14	6.49	6.94	3.85	3.54	3.47	3.09	4.05	3.39	3.36
29	3.11	3.68	4.47	6.39	---	3.39	3.57	3.49	3.06	3.90	3.04	3.43
30	3.07	3.22	4.97	6.33	---	3.86	3.59	3.17	3.42	3.56	2.95	3.47
31	3.08	---	4.96	3.94	---	4.37	---	3.09	---	3.54	3.30	---
MEAN	3.05	3.30	4.31	4.78	4.31	5.10	3.90	3.41	3.62	3.66	3.57	3.27
MAX	4.62	4.69	5.13	7.73	6.94	7.81	4.79	3.85	4.29	4.48	4.95	3.48
MIN	2.86	2.90	3.06	3.03	3.19	3.33	3.16	3.08	3.01	2.96	2.90	2.94
CAL YR 1986	MEAN	3.35	MAX	5.13	MIN	2.86						
WTR YR 1987	MEAN	3.86	MAX	7.81	MIN	2.86						

MOBILE RIVER BASIN

02394969 ETOWAH RIVER AT EUHARLEE, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.50	2.94	3.50	3.39	3.94	3.58	3.52	3.11	3.29	3.28	3.20	3.31
2	3.44	3.64	3.52	3.16	4.29	3.56	3.08	3.10	3.32	2.89	3.31	3.33
3	3.00	3.64	3.51	3.15	4.88	3.59	3.11	3.09	3.33	2.84	3.30	3.00
4	2.94	3.65	3.52	3.43	5.13	3.56	3.13	3.08	2.93	3.04	3.32	2.97
5	3.28	3.63	3.00	3.60	5.20	3.12	3.11	3.05	2.90	2.89	3.37	3.25
6	3.62	3.02	3.02	3.57	4.53	3.13	3.11	3.05	3.27	3.06	3.01	3.39
7	3.62	3.60	3.53	3.59	3.48	3.83	3.11	3.04	3.32	3.11	2.90	3.37
8	3.62	2.90	3.50	3.56	4.17	3.56	3.09	3.02	3.32	3.11	3.45	3.34
9	3.62	3.18	3.49	3.74	4.53	3.60	3.09	3.05	3.33	2.87	3.35	3.34
10	3.32	3.49	3.53	3.10	4.52	3.63	3.09	3.09	3.33	2.82	3.33	3.03
11	2.94	3.53	3.53	3.11	4.47	3.63	3.14	3.07	2.93	3.08	3.33	2.92
12	3.35	3.54	3.01	3.20	4.30	3.30	4.08	3.06	2.88	3.12	3.31	3.06
13	3.63	3.39	3.03	3.56	3.22	3.18	3.58	3.03	3.28	3.14	2.96	3.45
14	3.62	3.45	3.52	3.63	3.23	3.55	3.34	3.00	3.32	3.05	2.86	3.41
15	3.63	3.01	3.60	3.93	3.46	3.63	3.24	3.04	3.31	3.13	3.24	3.36
16	3.43	3.17	3.64	3.45	3.43	3.61	3.16	3.03	3.31	2.88	3.31	3.36
17	3.37	3.79	3.60	3.34	3.39	3.57	3.13	3.02	3.31	2.84	3.32	3.27
18	2.95	3.77	3.54	4.18	3.37	3.41	3.17	3.02	2.92	3.20	3.30	2.99
19	3.64	3.59	2.99	4.06	3.37	3.30	3.42	3.02	2.90	3.30	3.31	3.11
20	3.66	3.53	3.03	7.51	3.13	3.16	3.44	2.98	3.27	3.32	2.94	3.40
21	3.62	3.34	3.28	6.94	3.12	3.55	3.31	2.99	3.32	3.32	2.86	3.40
22	3.65	3.02	3.04	6.07	3.34	3.53	3.23	2.99	3.31	3.40	3.22	3.39
23	3.64	3.62	3.05	5.17	3.34	3.54	3.18	3.00	3.31	3.28	3.32	3.39
24	2.98	3.83	3.35	5.34	3.34	3.52	3.21	3.00	3.30	2.98	3.34	3.24
25	2.99	3.01	3.43	6.46	3.33	3.51	3.19	2.98	2.92	3.27	3.33	2.91
26	3.67	3.00	3.10	6.44	3.33	3.13	3.16	3.02	2.88	3.33	3.33	3.05
27	3.66	3.49	3.13	6.44	3.11	3.13	3.19	2.98	3.24	3.36	2.96	3.37
28	3.66	3.02	3.87	5.16	3.13	3.53	3.15	2.95	3.29	3.33	2.83	3.38
29	3.67	3.03	3.69	5.26	3.54	3.51	3.11	2.94	3.29	3.30	3.17	3.36
30	3.66	3.50	3.49	3.86	---	3.51	3.11	2.96	3.26	2.94	3.31	3.35
31	2.98	---	3.41	3.21	---	3.51	---	2.93	---	2.87	3.33	---
MEAN	3.43	3.38	3.37	4.34	3.78	3.47	3.23	3.02	3.20	3.11	3.21	3.25
MAX	3.67	3.83	3.87	7.51	5.20	3.83	4.08	3.11	3.33	3.40	3.45	3.45
MIN	2.94	2.90	2.99	3.10	3.11	3.12	3.08	2.93	2.88	2.82	2.83	2.91
CAL YR 1987	MEAN	3.81	MAX 7.81	MIN 2.90								
WTR YR 1988	MEAN	3.40	MAX 7.51	MIN 2.82								

MOBILE RIVER BASIN

02394969 ETOWAH RIVER AT EUHARLEE, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.21	3.30	3.45	3.25	3.50	5.27	3.56	3.99	4.45	5.86	4.57	4.19
2	2.96	3.35	3.44	3.33	3.48	5.17	3.24	4.23	3.71	5.13	4.90	3.31
3	3.30	3.32	3.29	3.56	3.47	5.35	3.79	4.05	3.26	5.21	4.79	3.21
4	3.59	3.33	2.95	4.09	3.22	4.21	4.32	3.98	3.18	5.26	4.75	3.72
5	3.46	3.37	3.53	4.46	3.08	6.24	5.71	3.99	3.68	5.44	3.56	4.14
6	3.42	3.09	3.93	4.16	3.52	5.38	6.06	3.38	3.78	7.07	3.33	3.69
7	3.39	3.11	3.88	3.37	3.62	4.60	5.59	3.25	3.78	7.01	4.18	4.06
8	3.25	3.37	3.89	3.08	3.61	5.56	4.21	3.78	3.76	6.90	3.65	4.16
9	2.90	3.36	3.89	3.67	3.49	6.31	4.12	3.93	3.74	6.68	3.64	3.27
10	3.05	3.36	3.28	4.37	3.99	6.32	5.68	4.18	3.22	6.63	4.13	3.13
11	3.39	3.36	2.94	4.47	3.00	4.07	5.82	4.22	3.12	6.62	4.24	3.89
12	3.24	3.23	3.44	4.45	2.98	3.37	5.79	4.57	3.64	6.64	3.33	3.97
13	2.89	2.95	3.67	4.79	3.40	5.15	4.87	3.42	3.76	6.64	3.24	4.00
14	3.37	3.10	3.67	4.19	3.27	5.80	4.77	3.28	3.78	6.30	4.54	3.71
15	3.28	3.41	3.66	3.38	3.41	5.80	3.81	3.98	4.43	4.16	4.12	3.73
16	2.92	3.39	3.68	3.28	3.34	5.78	3.39	4.43	4.63	3.76	4.71	3.63
17	3.06	3.40	3.17	4.17	3.07	5.77	3.94	4.23	4.01	7.39	4.63	3.35
18	3.39	3.41	2.94	4.76	3.11	3.92	4.26	4.15	4.52	6.08	4.44	3.58
19	3.35	3.23	3.31	4.75	3.16	3.22	4.24	4.31	5.27	5.95	3.34	3.62
20	3.37	2.97	3.38	4.73	3.68	3.64	4.23	3.49	6.86	6.13	3.24	3.60
21	3.38	3.14	3.43	4.14	4.67	3.96	4.24	3.19	7.39	6.22	4.28	3.59
22	3.23	3.44	3.44	3.35	4.50	4.14	3.60	3.68	6.19	6.14	4.38	3.65
23	2.92	3.42	3.44	4.03	3.91	5.13	3.25	3.20	5.84	6.14	4.36	3.27
24	3.05	3.28	3.14	4.30	3.74	4.37	3.88	3.63	5.04	5.84	4.34	3.16
25	3.30	3.09	2.98	4.31	3.28	3.78	3.98	3.63	6.11	5.64	4.39	3.93
26	3.28	3.27	3.29	4.30	3.24	3.47	3.96	3.61	7.79	5.52	3.37	4.59
27	3.29	3.01	3.45	4.33	4.53	4.05	3.98	3.11	6.97	5.42	3.42	4.33
28	3.32	3.13	3.45	3.34	5.44	4.32	4.30	3.12	6.95	5.37	3.80	4.43
29	3.17	3.49	3.46	3.04	---	4.28	3.48	3.46	7.05	3.92	3.83	6.16
30	2.90	3.44	3.47	3.48	---	4.26	3.16	3.52	6.98	3.42	4.15	4.71
31	3.01	---	3.23	3.28	---	4.29	---	4.30	---	3.95	3.87	---
MEAN	3.21	3.27	3.42	3.94	3.60	4.74	4.31	3.78	4.90	5.76	4.05	3.86
MAX	3.59	3.49	3.93	4.79	5.44	6.32	6.06	4.57	7.79	7.39	4.90	6.16
MIN	2.89	2.95	2.94	3.04	2.98	3.22	3.16	3.11	3.12	3.42	3.24	3.13
CAL YR 1988	MEAN	3.38	MAX	7.51	MIN	2.82						
WTR YR 1989	MEAN	4.07	MAX	7.79	MIN	2.89						

MOBILE RIVER BASIN

02394969 ETOWAH RIVER AT EUHARLEE, GA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.47	6.65	6.29	3.98	7.37	8.01	9.61	5.23	4.97	4.02	4.66	3.09
2	12.19	6.64	3.87	4.79	7.13	8.57	9.41	5.20	3.83	3.55	4.75	3.09
3	5.94	6.68	3.32	5.03	6.36	10.23	8.70	5.10	3.34	3.17	4.01	3.86
4	6.56	4.30	4.67	5.04	6.15	8.86	8.67	5.10	4.32	3.08	3.80	3.91
5	8.25	3.17	4.94	5.16	7.13	8.45	8.66	3.75	4.64	3.43	3.25	3.91
6	8.08	4.33	4.95	5.32	7.10	8.29	8.62	3.36	4.63	3.51	3.40	4.46
7	8.02	5.20	4.96	4.42	7.34	8.19	8.67	4.29	4.62	3.11	4.35	4.36
8	7.94	5.33	5.52	6.52	7.35	8.55	8.61	4.63	4.66	3.04	4.69	3.25
9	7.94	5.30	4.47	6.78	7.61	9.20	8.50	4.68	3.69	4.19	4.65	3.08
10	7.84	5.22	4.24	6.61	8.23	8.60	7.95	4.86	3.34	4.39	5.47	3.83
11	7.80	3.98	5.66	6.47	5.64	8.37	8.17	5.32	4.02	4.05	3.66	3.92
12	7.78	3.25	7.75	6.42	5.57	7.47	7.23	5.79	3.69	3.55	3.29	3.91
13	8.21	4.58	8.38	4.01	6.81	8.19	7.00	3.88	3.65	3.47	3.96	4.28
14	9.28	5.36	6.91	3.47	8.43	8.15	4.84	4.81	4.01	3.87	4.03	4.17
15	8.68	5.44	6.98	4.46	7.89	8.13	4.39	4.57	3.85	3.52	4.03	3.38
16	7.76	6.44	4.53	4.85	8.19	11.21	5.93	4.54	3.40	4.69	4.00	3.22
17	7.79	5.90	3.51	4.44	8.65	17.05	5.91	4.53	3.26	4.75	3.97	4.35
18	7.82	4.22	4.28	5.27	4.90	10.14	5.93	4.53	3.77	4.70	3.27	4.50
19	7.88	3.43	4.73	4.89	5.69	5.11	5.90	3.73	3.82	4.71	3.18	4.49
20	7.88	5.93	4.71	4.47	4.83	5.02	5.89	3.33	3.80	4.88	3.87	4.49
21	5.79	7.07	4.67	7.40	4.34	4.80	3.80	4.50	3.78	3.42	3.95	3.83
22	5.20	7.27	4.62	7.04	7.10	5.51	3.45	5.17	3.80	3.35	3.96	3.24
23	6.35	8.98	3.79	6.99	7.26	6.43	4.74	5.23	3.27	4.29	3.98	3.09
24	6.71	7.72	3.74	5.84	6.13	7.97	5.22	5.24	3.18	4.41	3.96	3.81
25	6.76	4.80	4.30	7.67	6.82	8.39	5.19	5.23	3.48	4.40	3.19	3.90
26	6.78	3.54	4.79	8.01	8.21	9.75	5.16	3.72	3.56	4.43	3.10	3.88
27	6.79	5.86	4.79	7.66	8.06	9.81	5.14	3.38	3.57	4.38	4.47	4.15
28	4.12	6.36	4.80	6.93	8.03	9.72	3.93	4.30	3.56	3.21	3.98	4.07
29	3.19	6.34	4.78	6.81	---	9.75	3.52	5.02	3.92	3.12	3.93	3.17
30	5.48	6.40	3.87	8.58	---	9.75	4.60	4.96	4.29	4.47	3.95	3.06
31	6.59	---	3.46	8.37	---	9.66	---	4.96	---	4.66	3.44	---
MEAN	7.35	5.52	4.91	5.93	6.94	8.62	6.44	4.61	3.86	3.93	3.94	3.79
MAX	12.19	8.98	8.38	8.58	8.65	17.05	9.61	5.79	4.97	4.88	5.47	4.50
MIN	3.19	3.17	3.32	3.47	4.34	4.80	3.45	3.33	3.18	3.04	3.10	3.06
CAL YR 1989	MEAN	4.74	MAX	12.19	MIN	2.98						
WTR YR 1990	MEAN	5.48	MAX	17.05	MIN	3.04						

MOBILE RIVER BASIN

02394980 ETOWAH RIVER NEAR EUHARLEE, GA.

LOCATION.--Lat 34°11'28", long 84°55'44", Bartow County, Hydrologic Unit 03150104, at bridge on Hardin Bridge Road, 1,000 ft downstream from Ashpole Creek, and 3 mi north of Euharlee.

DRAINAGE AREA.--1,610 mi².

PERIOD OF RECORD.--August 1974 to current year.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Flow regulated by Allatoona Reservoir (see "Lakes and Reservoirs in Mobile River Basin", station 02393500).

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 24...	0830	1580	79	81	7.3	7.2	17.0	14.0	8.5	89
NOV 29...	0820	1300	98	93	7.3	7.2	12.0	7.0	9.9	93
DEC 28...	1340	5300	89	90	7.3	7.3	5.0	21.0	12.1	96
JAN 31...	1410	8700	59	60	7.1	7.4	9.0	21.0	10.8	95
FEB 27...	0830	8150	63	62	7.1	7.0	10.0	5.5	11.6	102
MAR 27...	1020	10800	50	50	7.0	7.2	12.0	15.0	10.4	98
APR 23...	1530	6200	50	53	6.8	7.1	15.0	27.5	9.2	93
MAY 30...	0800	1450	73	71	7.4	7.0	16.0	18.0	8.0	83
JUN 26...	0600	980	84	85	7.2	7.1	20.0	14.0	7.1	80
JUL 26...	1230	770	113	102	7.3	7.4	22.0	29.5	8.3	96
AUG 29...	1615	640	120	117	7.6	7.6	26.0	35.0	8.8	112
SEP 27...	0930	--	100	98	7.2	7.2	22.0	22.5	6.4	75

MOBILE RIVER BASIN

02394980 ETOWAH RIVER NEAR EUHARLEE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARB WAT WH TOT LAB MG/L AS CACO3	ALKA- LINITY TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 24...	7.0	0.7	130	32	2	30	5	0.280	<0.030	0.050	1.8
NOV 29...	9.0	2.0	220	36	5	31	1	0.370	0.090	0.040	2.8
DEC 28...	12	1.7	560	--	--	31	14	0.430	0.060	0.060	2.7
JAN 31...	25	1.1	490	20	2	18	23	0.410	0.120	0.080	1.8
FEB 27...	29	0.7	70	20	4	16	20	0.400	0.050	0.060	4.8
MAR 27...	20	0.1	330	14	0	15	18	0.370	0.030	0.050	2.6
APR 23...	30	0.4	790	20	5	15	28	0.300	<0.030	0.140	2.8
MAY 30...	10	0.7	170	30	5	25	11	0.370	<0.030	0.040	2.5
JUN 26...	4.0	0.5	320	30	1	29	E9	0.350	0.100	0.100	2.1
JUL 26...	6.0	0.4	140	48	9	39	5	0.320	<0.030	0.100	3.7
AUG 29...	3.0	0.7	490	48	4	44	3	0.250	0.050	0.050	1.8
SEP 27...	4.0	1.1	330	36	4	32	2	0.240	0.100	0.070	3.4

MOBILE RIVER BASIN

02395000 ETOWAH RIVER NEAR KINGSTON, GA.

LOCATION.--Lat 34°12'24", long 84°58'44", Bartow County, Hydrologic Unit 03150104, on downstream side of center pier of bridge on U.S. Highway 411, 1 mi upstream from Two Run Creek, 1.5 mi upstream from Connesena Creek, and 2.5 mi southwest of Kingston.

DRAINAGE AREA.--1,630 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1928 to December 1931, October 1936 to current year. Monthly discharge only for July 1928, published in WSP 1304, 1734.

REVISED RECORDS.--WSP 1304: 1929-30.

GAGE.--Water-stage recorder. Datum of gage is 609.97 ft above National Geodetic Vertical Datum of 1929 (Dixie Construction Co. benchmark). Prior to Aug. 11, 1928, nonrecording gage, Aug. 11, 1928 to Dec. 28, 1931, water-stage recorder, Nov. 16, 1936 to June 15, 1937, nonrecording gage, and June 16, 1937 to June 27, 1960, water-stage recorder, all 500 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Allatoona Reservoir since December 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.) Records of chemical analyses for the water years 1970-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--57 years (water years 1929-31, 1937-90), 2,562 ft³/s, 21.34 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,700 ft³/s, Apr. 9, 1938, gage height, 27.7 ft; minimum daily, 268 ft³/s, Oct. 19, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 31 ft, Dec. 11, 1919, from information by local resident, discharge, 52,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,600 ft³/s, Mar. 17, gage height, 21.26 ft; minimum daily discharge, 490 ft³/s, Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11800	5920	5460	1500	7230	8150	10900	3960	3480	2110	2980	685
2	16000	5910	2540	3130	6870	8800	10800	3950	2430	1210	3100	563
3	5190	5970	878	3810	5810	11500	9790	3800	861	950	2300	1420
4	5760	3270	2740	3670	6010	9510	9730	3780	1720	567	1450	1790
5	8250	808	3450	3840	6610	8800	9720	2370	2960	766	1190	1790
6	8000	1900	3460	4500	6870	8550	9660	991	2930	1160	963	2170
7	7900	3770	3480	2980	7280	8390	9710	1800	2920	902	2000	2930
8	7810	4030	4210	5230	7180	8890	9620	3020	2970	542	2970	989
9	7800	3980	3050	6340	7520	10100	9550	3070	2120	1570	2970	645
10	7670	3860	2530	6000	9620	9120	8660	3390	848	2860	4200	1300
11	7640	2630	3890	5780	5350	8700	8990	4030	1630	2010	1900	1780
12	7600	873	7620	5700	4300	7450	7530	4840	1460	1410	846	1770
13	8060	2240	8740	2820	6220	8410	6950	2550	1350	1190	1470	2290
14	9670	4030	6490	1240	8750	8350	4070	2560	1740	1740	1960	2360
15	9070	4150	6530	2470	8440	8340	2670	2960	1830	1180	1950	1060
16	7620	5630	3550	3430	9580	14600	4700	2850	1170	2450	1910	674
17	7660	4960	1240	2790	9990	24900	5060	2870	771	3150	1880	1920
18	7710	2980	2190	4020	4000	13600	5100	2850	1160	3050	1180	2660
19	7750	1140	3140	3470	4980	4320	5030	2250	1630	3040	674	2630
20	7770	4100	3160	2770	3820	4290	5030	889	1600	3290	1340	2650
21	4850	6550	3120	8020	2690	3390	2490	2120	1580	1570	1850	1690
22	3830	6810	3040	6470	6450	4640	1230	3800	1600	865	1880	1200
23	5360	9600	1940	6650	7930	6030	2730	3960	1180	1970	1880	519
24	6030	7650	1710	5550	5500	8750	4060	3980	655	2590	1860	1210
25	6100	4000	1990	7620	6270	9100	3810	3960	807	2590	1130	1710
26	6100	1300	3290	8190	8490	11200	3900	2250	1250	2600	572	1710
27	6130	3990	3280	7790	8260	11200	3880	868	1240	2580	2110	1860
28	2980	5520	3300	6610	8200	11100	2610	1880	1240	1260	2050	2210
29	808	5510	3280	6430	---	11100	1340	3450	1680	608	1840	1040
30	3410	5590	2310	9020	---	11200	2290	3470	2310	2180	1840	490
31	5850	---	1150	8710	---	11000	---	3480	---	2990	1330	---
TOTAL	218178	128671	106758	156550	190220	293480	181610	91998	51122	56950	57575	47715
MEAN	7038	4289	3444	5050	6794	9467	6054	2968	1704	1837	1857	1591
MAX	16000	9600	8740	9020	9990	24900	10900	4840	3480	3290	4200	2930
MIN	808	808	878	1240	2690	3390	1230	868	655	542	572	490

CAL YR 1989	TOTAL	1127083	MEAN	3088	MAX	16000	MIN	531	MEAN†	3074	CFSTM†	1.89	IN†	25.61
WTR YR 1990	TOTAL	1580827	MEAN	4331	MAX	24900	MIN	490	MEAN†	4185	CFSTM†	2.57	IN†	34.87

†ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

MOBILE RIVER BASIN

02395120 TWO RUN CREEK NEAR KINGSTON, GA.

LOCATION.--Lat 34°14'34", long 84°53'23", Bartow County, Hydrologic Unit 03150104, on right bank 200 ft upstream from bridge on State Highway 293, 1.9 mi upstream from Limekiln Branch, and 3 mi east of Kingston.

DRAINAGE AREA.--33.1 mi².

PERIOD OF RECORD.--May 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 730 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: Dec. 1 to Jan. 11. Records good, except those for period of estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--10 years, 41.6 ft³/s, 17.07 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,180 ft³/s, Feb. 3, 1982, gage height, 7.91 ft; minimum daily discharge, 4.5 ft³/s, Oct. 12, 1989.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	2000	2,120	7.06	Feb. 16	0830	2,720	7.57
Jan. 21	0300	1,260	6.11	Feb. 22	1930	855	5.48
Jan. 25	1630	733	5.18	Mar. 16	1230	*2,940	*7.74
Feb. 10	1230	1,220	6.05	May 27	2200	618	4.81

Minimum daily discharge, 13 ft³/s, July 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1350	25	45	90	77	93	70	41	35	15	16	21
2	729	25	45	60	76	179	67	36	32	15	31	17
3	179	24	40	55	70	217	66	34	33	14	27	18
4	126	24	40	65	284	140	61	33	33	14	17	28
5	95	24	40	100	144	115	60	35	27	18	17	26
6	78	35	40	250	111	97	58	31	26	14	30	27
7	68	44	39	130	109	89	59	31	29	14	18	25
8	59	60	160	155	87	205	53	32	36	13	111	20
9	50	55	125	110	176	228	51	43	32	17	57	22
10	46	41	110	90	903	162	55	47	25	14	104	22
11	43	36	80	80	236	131	59	33	24	18	43	20
12	38	36	245	76	150	107	49	30	25	20	38	20
13	39	32	155	67	123	95	47	37	22	57	33	103
14	35	38	95	59	104	90	49	30	23	56	31	114
15	36	51	80	56	154	87	45	27	30	27	27	47
16	34	117	70	54	1650	1580	44	30	26	20	27	33
17	35	64	65	51	380	1380	42	24	22	19	24	24
18	39	54	60	60	189	278	42	22	23	22	24	25
19	39	47	65	55	310	175	38	24	25	31	22	21
20	36	41	60	231	173	146	38	34	21	26	23	20
21	34	40	55	682	140	129	45	136	20	35	21	20
22	31	104	50	173	434	112	41	45	25	59	23	24
23	33	275	45	129	256	102	37	35	21	31	27	20
24	29	114	45	140	158	96	35	35	20	26	20	18
25	29	85	45	529	126	92	34	28	20	24	22	20
26	31	69	45	223	110	88	38	26	23	19	19	18
27	29	63	45	142	100	83	37	181	18	17	19	19
28	28	53	45	114	95	74	54	147	15	17	20	17
29	27	50	45	118	---	79	45	60	16	19	18	16
30	27	46	50	112	---	79	39	45	18	16	21	17
31	27	---	70	87	---	77	---	36	---	15	18	---
TOTAL	3479	1772	2199	4343	6925	6605	1458	1428	745	722	948	842
MEAN	112	59.1	70.9	140	247	213	48.6	46.1	24.8	23.3	30.6	28.1
MAX	1350	275	245	682	1650	1580	70	181	36	59	111	114
MIN	27	24	39	51	70	74	34	22	15	13	16	16
CFSM	3.38	1.79	2.14	4.23	7.46	6.44	1.47	1.39	.75	.70	.92	.85
IN.	3.91	1.99	2.47	4.88	7.78	7.42	1.64	1.60	.84	.81	1.07	.95

CAL YR 1989	TOTAL	23566	MEAN	64.6	MAX	1350	MIN	12	CFSM	1.95	IN	26.48
WTR YR 1990	TOTAL	31466	MEAN	86.2	MAX	1650	MIN	13	CFSM	2.60	IN	35.36

MOBILE RIVER BASIN

02396000 ETOWAH RIVER AT ROME, GA.

LOCATION.—Lat 34°15'26", long 85°09'30", Floyd County, Hydrologic Unit 03150104, on downstream side of center pier of Southern Railway bridge in Rome, 1,800 ft upstream from U.S. Highway 27, and 2 mi upstream from confluence with Oostanaula River.

DRAINAGE AREA.—1,820 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—July to December 1903, August 1904 to June 1921 (published as "near Rome"), October 1938 to current year. Monthly discharge only for July to December 1903, published in WSP 1304.

REVISED RECORDS.—WDR GA-80-1: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 561.70 ft above National Geodetic Vertical Datum of 1929. July 1 to Dec. 31, 1903, nonrecording gage at Second Avenue Bridge, 1 mi downstream at different datum. Aug. 17, 1904 to June 30, 1921, nonrecording gage at Freemans Ferry, 5 mi upstream at different datum. Since May 15, 1939, auxiliary water-stage recorder at Second Avenue Bridge, 1 mi downstream.

REMARKS.—Estimated daily discharges: June 10 to July 13, July 28 to Aug. 1, Aug. 4-8 and 12-20. Records fair, except those for the period of estimated daily discharges, which are poor.. Flow regulated by Allatoona Reservoir since 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.)

AVERAGE DISCHARGE.—68 years (water years 1905-20, 1939-90), 2,944 ft³/s, 21.96 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 55,000 ft³/s, Dec. 11, 1919, gage height, over 28 ft, at former site at Freemans Ferry, computed from data at upstream stations; minimum daily discharge, 360 ft³/s, Oct. 10, 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known, Dec. 11, 1919. Flood of Apr. 9, 1938, reached a stage of 37.5 ft, discharge, 46,500 ft³/s, from gage readings and discharge measurements by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 33,800 ft³/s, Mar. 17, gage height, 36.77 ft, Mar. 17; minimum daily discharge, 640 ft³/s, July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11700	6300	5850	1530	8320	9130	11500	4060	3690	2500	3150	1060
2	22900	6330	4660	3220	7770	9600	11400	4340	3720	1950	3250	718
3	9480	6370	1260	4130	7290	13500	10400	4070	1130	1350	3330	698
4	6380	5400	2320	4110	7310	12100	10100	4120	1120	720	1850	1920
5	9700	1020	3770	4330	6970	10700	10100	4010	3170	730	1950	1930
6	9620	1500	3790	4860	8240	10300	10000	1310	3130	1300	1100	1910
7	9480	4130	3800	3830	8780	9840	10100	1240	3130	1300	1350	3370
8	9140	4570	4440	4270	8090	10000	9960	3310	3090	650	2950	1950
9	8430	4520	4100	7430	8350	12400	9900	3340	3160	640	3360	860
10	8200	4380	3140	6830	13900	11400	9060	3480	1100	2800	4360	716
11	8330	3710	3340	6520	9150	10600	9280	3750	1100	2350	3590	1930
12	8400	1110	7590	6330	5380	8900	7750	5030	2200	2300	1200	1890
13	8450	1830	10100	5140	6630	9670	7240	4050	1600	1500	1100	2200
14	10100	4420	7600	1820	10600	9270	5930	1470	1600	1940	2200	2940
15	9960	4660	7340	2380	10700	9140	3180	4040	2300	1480	2150	2030
16	8260	5890	5920	3860	17300	17700	3860	3120	1850	1220	2150	950
17	8210	6040	1880	3450	18200	31700	5500	3110	1100	3360	2100	854
18	8210	4210	2260	4160	8650	26900	5510	3040	1050	3240	2050	2790
19	8270	1610	3480	3880	7110	8780	5430	3030	1850	3260	850	2810
20	8300	2780	3710	3390	6370	6260	5390	1180	1850	3430	810	2790
21	6430	6960	3550	10400	4900	5170	4500	1740	1800	3300	1990	2800
22	4360	7180	3400	7450	7960	6060	1610	3570	1850	1140	2000	1780
23	4890	10700	2780	8120	13900	6740	2430	4250	1850	1060	2020	721
24	6520	9170	2060	7530	8090	10400	4440	4240	850	2840	1980	725
25	6570	6520	1830	9120	7660	10200	3540	4230	740	2790	1970	1890
26	6580	1880	3590	10700	10800	12000	4230	4050	1400	2780	740	1880
27	6600	2740	3590	9840	10200	12100	4210	1220	1350	2840	796	1880
28	5180	5930	3570	8090	9520	11900	4200	1900	1350	2700	2900	2500
29	1050	5890	3560	7590	—	11800	1630	3160	1300	1100	1940	1900
30	1930	5950	3090	10300	—	11900	1440	3790	1900	1200	1960	688
31	6260	—	1340	10100	—	11700	—	3710	—	3200	1970	—
TOTAL	247890	143700	122710	184710	258140	357860	193820	100960	57330	62970	65116	53080
MEAN	7996	4790	3958	5958	9219	11540	6461	3257	1911	2031	2101	1769
MAX	22900	10700	10100	10700	18200	31700	11500	5030	3720	3430	4360	3370
MIN	1050	1020	1260	1530	4900	5170	1440	1180	740	640	740	688
CAL YR 1989	TOTAL	1277906	MEAN	3501	MAX	22900	MIN	594	MEAN†	3487	CFSM†	1.92
WTR YR 1990	TOTAL	1848236	MEAN	5064	MAX	31700	MIN	640	MEAN†	4918	CFSM†	2.70
											IN†	26.03
											IN†	36.72

†ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

MOBILE RIVER BASIN

02396000 ETOWAH RIVER AT ROME, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—March 1968 to current year.

REMARKS.—Laboratory analyses are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 24...	0930	7000	64	64	7.3	7.0	17.5	15.0	8.2	86
NOV 29...	0915	6210	71	67	7.4	7.1	12.5	7.5	8.9	84
DEC 28...	1210	3680	100	102	7.4	7.4	6.0	19.0	11.4	93
JAN 31...	1230	9970	68	69	7.3	7.5	9.0	18.5	10.0	88
FEB 27...	0945	10300	65	67	7.5	7.1	9.0	9.0	10.8	93
MAR 27...	1100	11900	59	58	7.3	7.3	12.0	17.5	9.6	90
APR 23...	1430	1550	156	170	7.4	7.8	19.0	27.0	9.2	101
MAY 30...	0900	5820	70	68	7.4	7.2	17.5	19.0	8.3	89
JUN 26...	0730	2690	160	168	7.7	7.8	23.0	18.0	8.0	95
JUL 26...	1120	2240	73	71	7.3	7.3	23.0	28.5	8.0	95
AUG 29...	1445	1170	108	102	7.8	7.6	26.0	—	8.2	104
SEP 27...	1030	2130	121	121	7.2	7.5	21.5	26.0	7.4	85

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CaCO3)	HARD- NESS NONCARB WAT TOT LAB MG/L AS CaCO3	ALKA- LITY TOT FET LAB MG/L AS CaCO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 24...	14	0.7	130	26	6	20	19	0.240	<0.030	0.040	1.8
NOV 29...	15	1.8	85	26	2	24	17	0.260	0.060	0.040	2.4
DEC 28...	13	1.7	700	10	0	33	16	0.460	0.040	0.030	2.8
JAN 31...	25	1.5	170	24	10	14	27	0.430	0.090	0.090	1.9
FEB 27...	37	0.8	790	26	4	22	30	0.400	0.040	0.070	3.3
MAR 27...	28	0.1	220	20	4	16	40	0.390	0.030	0.070	3.2
APR 23...	8.0	0.7	130	68	5	63	8	0.590	<0.030	0.120	1.4
MAY 30...	44	0.6	1300	28	5	23	75	0.340	<0.030	0.030	5.6
JUN 26...	12	0.5	490	84	20	64	30	0.390	0.090	0.200	2.2
JUL 26...	12	0.5	790	26	2	24	19	0.250	<0.030	0.110	6.0
AUG 29...	5.0	0.7	220	40	3	37	5	0.280	0.030	0.090	2.2
SEP 27...	14	1.9	270	48	8	40	26	0.370	<0.030	0.100	3.7

MOBILE RIVER BASIN

02397000 COOSA RIVER NEAR ROME, GA.

LOCATION.--Lat 34°12'01", long 85°15'24", Floyd County, Hydrologic Unit 03150105, on left bank attached to left lock wall of Mayos Bar lock near upstream end, 1.5 mi upstream from Webb Creek, 6 mi southwest of Rome, 7.5 mi downstream from confluence of Oostanaula and Etowah Rivers, and at mile 278.6.

DRAINAGE AREA.--4,040 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1896 to December 1903 (published as "at Rome"), June 1928 to December 1931, March 1937 to December 1958, October 1962 to current year. Water years 1959-62 (annual maximum only). Gage-height records collected at same site for period 1922-49, are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1674, 1906: 1959(M).

GAGE.--Water-stage recorder. Datum of gage is 553.05 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Jan. 1, 1897, to Dec. 31, 1903, nonrecording gage at site 7.5 mi upstream at datum 8.65 ft higher. June 21, 1928, to Dec. 31, 1931, and Mar. 10, 1937, to Dec. 31, 1958, water-stage recorder at site 200 ft downstream at same datum. Water-stage recorder at Fifth Avenue in Rome used as auxiliary gage since 1963.

REMARKS.--Estimated daily discharges: Mar. 19-22. Records fair. Flow regulated by Allatoona Reservoir since December 1949 and by Carters Lake and Carters re-regulation Reservoir since November 1974. (See "Lakes and Reservoirs in Mobile River Basin, stations 02381400, 02382400 and 02393500.)

AVERAGE DISCHARGE.--59 years (water years 1897-1903, 1929-31, 1938-58, 1963-90), 6,691 ft³/s, 22.49 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 71,000 ft³/s, revised, Jan. 22, 1947, gage height, 37.0 ft; minimum daily, 870 ft³/s, Oct. 18-22, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1834, 40.3 ft at site and datum at Rome, equivalent to about 43 ft at present site, from gage-height relation, Apr. 1, 1886, discharge, 100,000 ft³/s, from rating curve extended above 63,000 ft³/s on basis of peak flow at Gadsden, Ala.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 65,500 ft³/s, Mar. 18, gage height, 35.97 ft; minimum daily discharge, 1,570 ft³/s, Sept. 30.

REVISIONS.--The peak discharges and annual maximum(*) for some water years have been revised, as shown in the following table. They supersede figures published in WSP 852, 1052, 1082, 1142, 1304, and 1674.

Water year	Date	Discharge (ft ³ /s)	Gage height (ft)	Water year	Date	Discharge (ft ³ /s)	Gage height (ft)
1937	Jan. 4, 1937	60,500	34.9	1947	Jan. 22, 1947	71,000	37.0
1938	Apr. 10, 1938	66,600	36.2	1949	Nov. 30, 1948	69,000	36.7
1946	Jan. 10, 1946	66,600	36.2				
	Feb. 12, 1946	69,500	36.8				

MOBILE RIVER BASIN

02397000 COOSA RIVER NEAR ROME, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	26100	7430	10000	10500	21200	20700	19500	8080	6170	3440	4460	2330		
2	37000	7460	8890	13200	18900	20700	18900	8250	6280	2950	5220	1820		
3	35700	7520	5060	13000	17000	26800	17000	8700	4450	2590	5610	1630		
4	30700	7230	4950	11000	20500	28400	15400	8310	4430	2120	4230	2740		
5	30800	2900	6370	11500	22900	27400	15200	7750	5770	2130	3800	2790		
6	30900	3110	6280	16000	23100	26300	15000	4780	5420	2620	2600	2820		
7	29900	6100	6240	17400	22800	23500	15000	4660	5200	2570	2770	4310		
8	24400	7820	8620	18400	21000	21200	14700	5940	5240	1800	4550	3450		
9	18000	8020	11500	22100	18700	25300	13900	6120	5360	1610	5290	2420		
10	15400	7880	10400	21500	26400	27000	13400	11200	3190	3630	6460	2300		
11	14800	7320	9040	19900	29500	26700	13900	14000	2650	3360	6250	3730		
12	14500	4900	14400	16300	26500	24700	12000	13600	3620	3410	3540	4040		
13	13900	4840	21000	12900	25800	22200	10700	10700	2890	3210	2920	4800		
14	14700	6930	19800	7550	27400	19600	9480	5930	2930	5400	3900	7740		
15	14400	7590	16700	6750	26500	18500	6250	7590	3970	6290	3840	6150		
16	11300	16800	13100	7490	38700	30700	6400	6290	3410	5400	3720	3830		
17	9940	20900	7000	7080	53100	52800	8080	6310	2490	5950	3560	2940		
18	10000	17200	6550	7400	49200	64200	7980	6350	2390	5270	3440	4510		
19	10900	12800	7400	7500	47000	52000	7220	6250	3160	5070	2200	4390		
20	11000	9150	7480	8170	48400	45000	6970	4720	3010	5140	2170	4330		
21	9260	11700	7270	21000	46800	43000	6700	5200	3190	5830	3320	4150		
22	6550	12100	7020	23000	43700	39500	3780	6010	3260	4410	3340	3200		
23	6430	21000	6470	23100	42800	36100	4290	6760	3520	3810	3340	3160		
24	7890	22600	4980	21900	37400	33200	6590	7010	2280	5450	3400	3380		
25	7890	20900	4270	22600	33400	27300	7300	6920	2100	5430	3380	3930		
26	7820	13200	6110	26600	31500	22400	8140	6800	2580	5310	2160	3360		
27	7820	7660	6180	25900	28000	21000	8700	4280	2500	5350	2100	3000		
28	7240	10100	6140	23300	23400	20200	8880	4970	2430	5100	4250	3470		
29	3050	10500	6020	20500	---	19700	6690	6220	2320	3040	3260	2850		
30	3160	10600	5940	21900	---	20000	6410	6470	2840	2860	3250	1570		
31	7300	---	5730	22500	---	19800	---	6170	---	4600	3250	---		
TOTAL	478750	314260	266910	507940	871600	905900	314460	222340	109050	125150	115580	105140		
MEAN	15440	10480	8610	16390	31130	29220	10480	7172	3635	4037	3728	3505		
MAX	37000	22600	21000	26600	53100	64200	19500	14000	6280	6290	6460	7740		
MIN	3050	2900	4270	6750	17000	18500	3780	4280	2100	1610	2100	1570		
CAL YR 1989	TOTAL	3380590	MEAN	9262	MAX	37000	MIN	2020	MEAN†	9255	CFSM†	2.29	IN†	31.11
WTR YR 1990	TOTAL	4337080	MEAN	11880	MAX	64200	MIN	1570	MEAN†	11635	CFSM†	2.88	IN†	39.11

†ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE, CARTERS RE-REGULATION DAM, AND ALLATOONA RESERVOIR.

MOBILE RIVER BASIN

02397000 COOSA RIVER NEAR ROME, GA.—Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.51	14.13	15.12	15.32	21.28	21.24	19.91	14.39	13.58	12.39	12.86	11.90
2	28.79	14.14	14.69	16.30	19.87	20.97	19.54	14.46	13.63	12.17	13.18	11.58
3	28.64	14.17	13.09	16.21	18.77	23.89	18.55	14.63	12.83	12.03	13.35	11.44
4	26.25	14.04	13.04	15.48	20.70	24.85	17.66	14.47	12.81	11.78	12.76	12.06
5	25.84	12.20	13.68	15.67	22.22	24.44	17.53	14.25	13.41	11.78	12.58	12.09
6	25.95	12.29	13.64	17.64	22.35	23.92	17.42	12.97	13.26	12.05	12.05	12.11
7	25.57	13.56	13.62	18.40	22.16	22.70	17.43	12.92	13.18	12.02	12.14	12.78
8	23.15	14.30	14.61	18.83	21.22	21.32	17.15	13.49	13.19	11.56	12.90	12.42
9	19.11	14.38	15.68	21.06	19.79	23.37	16.71	13.57	13.24	11.43	13.21	11.95
10	17.66	14.32	15.29	20.71	23.76	24.19	16.37	15.53	12.34	12.46	13.71	11.89
11	17.17	14.08	14.79	19.77	25.58	24.08	16.67	16.87	12.08	12.35	13.62	12.55
12	16.87	13.02	16.82	17.91	24.10	23.22	15.86	16.69	12.49	12.39	12.48	12.68
13	16.56	13.00	20.22	16.30	23.62	21.93	15.38	15.39	12.19	12.33	12.22	12.99
14	17.02	13.92	19.78	14.19	24.27	20.37	14.92	13.48	12.20	13.25	12.62	14.27
15	16.88	14.20	18.15	13.84	24.11	19.60	13.62	14.18	12.64	13.64	12.60	13.58
16	15.60	18.05	16.40	14.17	29.54	26.01	13.69	13.64	12.42	13.24	12.54	12.60
17	15.13	20.21	13.96	13.99	33.68	33.82	14.39	13.65	11.99	13.49	12.47	12.22
18	15.16	18.44	13.76	14.12	33.67	35.74	14.34	13.66	11.93	13.21	12.41	12.88
19	15.47	16.13	14.13	14.17	33.13	---	14.03	13.62	12.29	13.12	11.82	12.83
20	15.52	14.82	14.16	14.44	33.49	---	13.93	12.94	12.23	13.15	11.81	12.80
21	14.85	15.74	14.07	20.47	33.18	---	13.81	13.16	12.31	13.44	12.35	12.72
22	13.76	15.89	13.97	22.00	32.36	---	12.58	13.52	12.34	12.82	12.36	12.31
23	13.70	20.35	13.72	21.99	32.09	29.69	12.79	13.84	12.46	12.59	12.36	12.31
24	14.32	21.68	13.06	21.15	30.43	28.22	13.77	13.94	11.87	13.28	12.39	12.42
25	14.32	20.66	12.77	21.48	28.34	25.26	14.08	13.90	11.77	13.27	12.38	12.63
26	14.29	16.48	13.56	23.90	27.04	22.34	14.42	13.85	12.03	13.22	11.80	12.37
27	14.29	14.23	13.59	23.63	25.29	21.26	14.63	12.76	11.98	13.24	11.76	12.20
28	14.04	15.16	13.58	22.38	22.88	20.65	14.70	13.06	11.95	13.13	12.76	12.40
29	12.28	15.32	13.52	20.58	---	20.26	13.82	13.61	11.88	12.28	12.32	12.12
30	12.31	15.33	13.49	21.42	---	20.28	13.69	13.71	12.12	12.19	12.32	11.39
31	14.07	---	13.39	21.92	---	20.13	---	13.58	---	12.92	12.32	---
MEAN	18.00	15.47	14.62	18.37	26.03	---	15.45	13.99	12.49	12.65	12.53	12.42
MAX	28.79	21.68	20.22	23.90	33.68	---	19.91	16.87	13.63	13.64	13.71	14.27
MIN	12.28	12.20	12.77	13.84	18.77	---	12.58	12.76	11.77	11.43	11.76	11.39
CAL YR 1989	MEAN	15.10	MAX	28.79	MIN	11.81						

MOBILE RIVER BASIN

02397000 COOSA RIVER NEAR ROME, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--February 1986 to September 1987. April 1988 to current year.

INSTRUMENTATION.--Water-temperature recorder. Water temperature recorded hourly.

REMARKS.--Laboratory analyses are provided by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen, are by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 31.0°C, July 19, 21, 1986; minimum recorded, 2.0°C, Dec. 25, 1989.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 27.5°C, Aug. 21, 22; minimum recorded, 2.0°C, Dec. 25.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 24...	1215	7980	80	82	7.4	7.1	17.0	21.0	8.2	85
NOV 29...	1145	10800	88	84	7.7	7.1	12.0	8.0	8.6	80
DEC 28...	1040	6810	119	123	7.5	7.4	5.0	13.0	12.5	99
JAN 31...	1120	22500	79	--	7.3	7.4	9.5	14.5	10.0	89
FEB 27...	1200	28100	68	71	7.2	6.9	10.0	17.0	10.2	90
MAR 27...	1300	20600	72	69	7.3	7.2	14.5	21.0	8.1	80
APR 23...	1315	3910	154	171	7.1	7.6	19.0	26.5	8.5	93
MAY 30...	1100	8070	109	109	7.8	7.4	19.0	24.5	7.7	85
JUN 26...	1000	3370	150	155	7.9	7.7	24.0	21.0	6.5	79
JUL 26...	1050	6090	108	107	7.5	7.5	24.0	28.5	7.6	92
AUG 29...	1300	3680	95	90	7.5	7.4	26.0	35.0	7.4	93
SEP 26...	1100	4440	108	106	7.6	7.4	20.0	21.5	7.1	80

MOBILE RIVER BASIN

02397000 COOSA RIVER NEAR ROME, GA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CaCO3)	HARD- NESS NONCARB WH WAT TOT LAB MG/L AS CaCO3	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CaCO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 24...	16	1.0	790	26	0	27	0.300	<0.030	0.070	1.6
NOV 29...	21	1.8	<20	32	2	30	0.330	<0.030	0.090	3.0
DEC 28...	10	1.8	220	50	5	45	0.500	<0.030	0.020	1.9
JAN 31...	31	1.1	330	26	0	26	0.400	<0.030	0.090	2.5
FEB 27...	33	1.1	330	24	0	25	0.340	0.050	0.040	3.9
MAR 27...	26	0.9	2300	28	3	25	0.400	0.040	0.140	2.9
APR 23...	18	0.7	3300	66	1	65	0.540	0.060	0.200	3.3
MAY 30...	40	1.2	6300	46	5	41	0.420	<0.030	0.040	4.3
JUN 26...	9.0	0.8	790	64	8	56	0.480	0.090	0.210	2.4
JUL 26...	25	0.5	220	40	4	36	0.330	<0.030	0.180	3.8
AUG 29...	8.0	0.6	790	28	0	34	0.230	<0.030	0.070	2.9
SEP 26...	24	0.8	310	40	2	38	0.320	0.060	0.150	2.3

MOBILE RIVER BASIN

02397000 COOSA RIVER NEAR ROME, GA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.5	18.0	17.0	16.0	11.0	11.0	8.5	8.0	9.0	8.5	11.0	11.0
2	19.0	19.0	16.0	15.0	11.0	10.5	8.5	7.5	10.0	9.0	11.0	11.0
3	19.5	19.0	15.5	15.0	10.5	9.5	7.5	6.5	11.5	10.0	11.5	11.0
4	20.0	19.5	15.5	14.5	9.0	8.0	7.5	7.0	12.5	11.5	11.5	11.0
5	19.5	19.5	14.5	13.5	9.0	7.5	8.5	7.5	13.0	12.5	11.5	11.0
6	19.5	19.5	14.0	13.5	9.5	8.5	9.0	8.5	12.5	11.0	12.0	11.5
7	19.5	19.5	15.5	14.0	10.0	9.0	10.0	9.0	11.0	10.5	12.0	12.0
8	19.5	19.0	16.0	15.0	10.5	9.5	10.0	9.5	11.0	10.5	12.0	11.0
9	19.0	18.5	16.0	15.5	10.0	9.0	9.5	8.0	11.5	10.5	11.0	10.5
10	18.5	18.0	15.5	14.5	9.0	8.5	8.5	7.5	12.0	11.5	11.5	11.0
11	18.5	18.0	15.0	14.5	8.5	8.0	8.0	7.0	12.0	11.5	12.5	11.5
12	19.0	18.5	14.5	14.0	9.0	8.5	8.0	7.0	12.0	11.5	13.5	12.5
13	19.0	18.5	15.0	14.0	8.5	8.0	7.5	6.5	11.5	11.0	14.0	13.5
14	19.5	19.0	15.0	14.5	8.0	7.0	7.0	7.0	11.5	11.0	14.5	13.5
15	19.5	19.5	16.0	15.0	7.5	7.0	8.5	7.0	12.5	11.5	14.5	14.0
16	19.5	19.5	16.0	14.5	7.5	6.5	9.0	8.0	15.0	13.0	15.5	14.5
17	20.0	19.5	14.5	13.0	6.5	5.5	9.5	8.5	15.0	14.0	16.0	15.5
18	20.0	19.0	13.0	11.5	6.0	5.5	10.5	9.5	14.0	13.0	---	---
19	19.0	17.0	11.0	10.5	6.5	6.0	11.0	9.5	13.0	12.5	---	---
20	17.0	16.5	11.5	10.0	6.5	6.0	12.0	10.0	13.0	12.5	---	---
21	16.5	15.5	13.0	11.5	6.5	6.0	12.0	11.5	12.5	11.5	---	---
22	16.0	15.0	13.0	12.0	6.5	4.5	12.0	11.5	12.0	11.5	---	---
23	17.0	15.5	12.0	10.5	4.5	3.0	11.5	9.5	12.0	11.5	14.0	13.0
24	17.5	16.0	10.5	10.0	3.0	2.5	9.5	9.0	11.5	11.0	14.0	13.5
25	17.0	16.5	10.5	9.0	3.0	2.0	10.5	9.5	11.5	10.5	14.0	13.5
26	17.0	16.5	9.5	8.5	4.0	3.5	10.5	9.5	10.0	9.5	14.0	13.0
27	17.0	16.5	12.5	9.5	4.5	4.0	9.5	8.5	10.0	9.5	13.0	12.5
28	17.0	16.5	13.0	12.5	5.0	4.5	8.5	8.0	11.0	10.5	13.0	12.5
29	16.0	15.5	13.0	12.0	5.5	5.0	9.0	8.5	---	---	13.0	12.5
30	16.0	15.5	12.0	11.0	6.0	5.5	9.5	8.5	---	---	13.0	13.0
31	17.0	16.0	---	---	8.5	6.5	8.5	8.5	---	---	13.5	13.0
MONTH	20.0	15.0	17.0	8.5	11.0	2.0	12.0	6.5	15.0	8.5	16.0	10.5

MOBILE RIVER BASIN

02397410 CEDAR CREEK AT CEDARTOWN, GA.

LOCATION.--Lat 33°59'45", long 85°15'53", Polk County, Hydrologic Unit 03150105, at right downstream bridge pier on Georgia Avenue at Cedartown, 1.1 mi downstream from Pumpkin Pile Creek, and at mile 29.9.

DRAINAGE AREA.--66.9 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 758.88 ft above National Geodetic Vertical Datum of 1929 (datum published incorrectly in 1981 and 1982).

REMARKS.--Estimated daily discharges: Mar. 1-15. Records fair to poor, except those for the period of estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--9 years, 86.7 ft³/s, 17.60 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,910 ft³/s, Mar. 16, 1990, gage height, 18.36 ft; minimum daily discharge 10 ft³/s, Aug. 6, 1986, June 17, 18, 24, 1988, Aug. 19, 1988, and Oct. 7, 8, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 4, 1979, reached a stage of 21.1 ft from floodmarks, discharge, 16,500 ft³/s from rating curve extended above 4,500 ft³/s on basis of contracted-opening and flow-over-road computation of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1730	3,020	13.51	Feb. 10	1100	1,900	10.87
Jan. 21	0100	2,760	13.02	Feb. 16	0530	3,310	14.01
Jan. 25	1330	1,610	10.04	Mar. 16	2200	*7,910	*18.36
Feb. 4	0700	1,940	10.98				

Minimum daily discharge, 16 ft³/s, Sept. 18, 22-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1470	38	80	101	139	250	120	66	40	22	22	21
2	671	38	76	84	131	350	117	63	39	22	25	20
3	209	38	71	79	123	250	110	60	48	22	24	19
4	131	37	67	102	1190	190	106	59	52	22	22	19
5	101	36	66	159	390	160	102	65	56	22	22	18
6	84	45	64	551	247	150	103	59	47	22	22	18
7	73	49	62	301	203	330	104	60	39	22	22	18
8	66	72	308	357	165	370	96	56	30	23	22	17
9	59	62	259	234	387	250	94	78	33	23	21	17
10	55	51	227	177	1340	210	103	92	30	22	21	17
11	52	46	162	148	491	180	112	67	25	24	21	17
12	50	43	567	128	290	160	95	62	24	28	21	17
13	47	41	318	111	217	150	88	63	25	64	20	18
14	45	49	191	102	176	160	84	61	25	63	20	25
15	42	74	155	96	287	250	83	174	27	39	20	20
16	42	225	129	89	2590	4580	80	211	33	27	20	19
17	45	117	115	84	796	3730	78	89	26	24	19	17
18	48	90	107	91	444	913	74	72	25	24	19	16
19	50	75	114	86	817	499	72	65	24	43	19	17
20	43	68	107	582	397	332	71	73	23	51	19	17
21	40	64	96	1490	288	266	78	71	24	31	28	17
22	39	235	86	392	592	231	84	67	24	25	28	16
23	37	616	77	254	404	205	92	62	26	23	24	16
24	35	195	72	400	269	187	102	58	25	23	21	16
25	33	142	74	1340	208	169	81	55	31	22	21	16
26	33	120	74	532	181	161	69	53	31	22	21	16
27	35	105	72	303	171	160	64	51	27	22	20	16
28	36	113	70	227	158	145	89	55	25	22	20	16
29	36	102	68	225	---	144	82	49	24	22	22	16
30	37	88	74	200	---	136	70	45	23	22	30	16
31	38	---	95	158	---	129	---	42	---	22	24	---
TOTAL	3782	3074	4103	9183	13091	15397	2703	2203	931	865	680	528
MEAN	122	102	132	296	468	497	90.1	71.1	31.0	27.9	21.9	17.6
MAX	1470	616	567	1490	2590	4580	120	211	56	64	30	25
MIN	33	36	62	79	123	129	64	42	23	22	19	16
CFSM	1.82	1.53	1.97	4.43	7.00	7.43	1.35	1.06	.46	.42	.33	.26
IN.	2.10	1.71	2.28	5.11	7.28	8.56	1.50	1.22	.52	.48	.38	.29

CAL YR 1989	TOTAL	40979	MEAN	112	MAX	2460	MIN	19	CFSM	1.67	IN	22.79
WTR YR 1990	TOTAL	56540	MEAN	155	MAX	4580	MIN	16	CFSM	2.32	IN	31.44

MOBILE RIVER BASIN

02397500 CEDAR CREEK NEAR CEDARTOWN, GA.

LOCATION.--Lat 34°03'38", long 85°18'41", Polk County, Hydrologic Unit 03150105, at bridge on Cave Springs Road, 4.5 mi upstream from Lake Creek, and 4.5 mi northwest of Cedartown.

DRAINAGE AREA.--115 mi².

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

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey. Water-discharge records for the water years 1943-73 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 24...	1100	75	250	277	7.8	7.6	14.0	20.0	9.2	90
NOV 29...	1045	205	182	184	7.6	7.6	13.0	7.5	9.7	93
DEC 28...	1130	115	223	238	7.7	7.7	8.0	18.0	11.5	99
JAN 31...	1200	335	150	--	7.5	7.8	10.0	15.0	10.3	93
FEB 27...	1115	310	146	151	7.6	7.4	9.0	10.0	10.4	90
MAR 27...	1230	270	158	159	7.6	7.9	14.0	21.5	10.4	103
APR 23...	1345	110	206	220	7.7	8.1	19.0	27.0	10.4	114
MAY 30...	1015	79	238	248	7.9	7.8	18.5	23.5	8.4	92
JUN 26...	0900	64	250	270	7.8	7.6	20.0	25.0	7.1	80
JUL 26...	1320	59	263	268	8.4	8.3	22.5	29.5	11.9	140
AUG 29...	1400	37	280	284	8.3	8.3	24.0	34.0	11.8	145
SEP 26...	1145	37	283	292	8.0	8.0	16.0	22.0	8.3	86

MOBILE RIVER BASIN

02397500 CEDAR CREEK NEAR CEDARTOWN, GA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT LAB MG/L AS CACO3	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 24...	2.0	0.5	330	150	27	123	0.740	<0.030	0.140	1.7
NOV 29...	9.0	1.5	<20	90	8	82	0.480	0.060	0.190	2.4
DEC 28...	4.0	1.9	2300	110	10	100	0.650	<0.030	0.070	2.5
JAN 31...	10	0.9	1400	68	3	65	0.480	<0.030	0.080	--
FEB 27...	7.0	0.9	7900	74	10	64	0.460	0.060	0.060	2.3
MAR 27...	6.0	0.2	1700	74	4	70	0.430	<0.030	0.090	1.9
APR 23...	2.0	0.1	1300	100	1	99	0.480	0.040	0.120	2.4
MAY 30...	7.0	0.7	2000	110	2	108	0.590	0.030	0.120	3.7
JUN 26...	5.0	0.4	17000	130	12	118	0.530	0.110	0.270	3.9
JUL 26...	6.0	0.1	3300	140	18	122	0.530	<0.030	0.180	4.1
AUG 29...	2.0	0.6	1700	130	2	128	0.640	0.040	0.130	4.3
SEP 26...	2.0	1.3	330	140	10	130	0.570	0.030	0.170	2.0

MOBILE RIVER BASIN

02397530 COOSA RIVER NEAR COOSA, GA.

LOCATION.--Lat 34°11'54", long 85°26'46", Floyd County, Ga.-Cherokee County, Ala., Hydrologic Unit 03150105, 6.5 mi southwest of Coosa, and at mile 254.8.

DRAINAGE AREA.--4,360 mi², approximately.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1976 to current year.

pH: August 1976 to current year.

WATER TEMPERATURE: August 1976 to current year.

DISSOLVED OXYGEN: August 1976 to current year.

PERIOD OF RECORD.--August 1974 to current year.

INSTRUMENTATION.--Water-quality monitor. Specific Conductance, pH, Water Temperature, and Dissolved Oxygen recorded hourly.

REMARKS.--Flow regulated by Allatoona Reservoir and by Carters Lake and Carters Re-regulation Dam (see "Lakes and Reservoirs in Mobile River Basin", stations 02381400, 02382400, and 02393500). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen is by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 265 microsiemens Dec. 3, 1987; minimum recorded, 32 microsiemens Apr. 15, 1979.

pH: Maximum recorded, 9.7 units Dec. 5, 1977; minimum recorded, 6.3 units Nov. 6, 7, 8, 9, 10, 11, 12, 1977.

WATER TEMPERATURE: Maximum recorded, 36.5°C July 25, 1986; minimum recorded, 1.0°C Jan. 13, 1982.

DISSOLVED OXYGEN: Maximum recorded, 15.5 mg/L May 9, 1986; minimum recorded, 1.4 mg/L July 8, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 213 microsiemens June 30; minimum recorded, 48 microsiemens Mar. 18.

pH: Maximum recorded, 9.4 units Sept. 8; minimum recorded, 6.7 units Feb. 17, 18, Mar. 18.

WATER TEMPERATURE: Maximum recorded, 33.0°C July 8, Aug. 27; minimum recorded, 7.0°C Dec. 16, 17, Jan. 13, 14.

DISSOLVED OXYGEN: Maximum recorded, 12.3 mg/L Dec. 15, 16; minimum recorded, 4.9 mg/L Sept. 15, 16.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 03...	1000	58	61	6.9	6.8	19.5	18.0	6.2	68
NOV 01...	1300	99	94	7.3	7.1	18.0	14.5	8.3	89
28...	1200	131	124	7.4	7.1	12.0	17.0	9.7	92
DEC 26...	1115	177	185	8.2	8.1	3.0	4.0	12.7	96
JAN 30...	1200	97	98	7.4	7.5	9.0	7.0	11.0	97
MAR 26...	1145	86	79	7.1	7.1	14.5	10.0	8.6	85
APR 26...	1030	142	143	7.6	7.5	20.0	22.0	8.0	89
MAY 30...	1000	141	137	7.6	7.4	23.0	19.0	7.0	83
JUN 26...	0830	159	165	7.7	7.6	27.5	22.0	7.3	94
JUL 26...	0930	117	111	7.4	7.4	26.0	25.0	6.5	81
AUG 29...	1000	162	156	7.5	7.5	31.5	27.0	6.3	87
SEP 25...	0930	150	149	7.7	7.4	26.0	16.5	7.0	88

MOBILE RIVER BASIN

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT LAB MG/L AS CACO3	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)
OCT 03...	130	33	1.9	--	26	6	20	166
NOV 01...	14	29	1.4	130	30	1	29	16
28...	20	21	1.7	460	52	6	46	27
DEC 26...	10	23	7.7	170	60	0	60	4
JAN 30...	24	23	0.5	700	32	0	36	28
MAR 26...	22	16	0.9	4900	--	--	28	23
APR 26...	9.0	8	0.5	790	50	0	51	13
MAY 30...	22	24	1.0	790	52	0	52	24
JUN 26...	10	10	1.2	50	56	1	55	15
JUL 26...	16	16	0.5	80	40	4	36	16
AUG 29...	7.0	--	1.1	<20	--	--	52	9
SEP 25...	8.0	18	1.0	80	50	0	50	7

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 03...	0.210	0.040	0.46	0.50	0.71	0.200	--
NOV 01...	0.280	0.140	0.16	0.30	0.58	0.110	4.1
28...	0.440	0.060	--	<0.10	--	0.060	6.0
DEC 26...	0.520	0.090	0.11	0.20	0.72	0.140	11
JAN 30...	0.420	0.070	0.11	0.18	0.60	0.120	3.8
MAR 26...	0.320	<0.030	--	0.20	0.52	0.080	3.7
APR 26...	0.470	<0.030	--	0.32	0.79	0.170	3.5
MAY 30...	0.450	0.050	0.25	0.30	0.75	0.100	3.7
JUN 26...	0.370	0.140	0.26	0.40	0.77	0.190	3.3
JUL 26...	0.340	<0.030	--	0.30	0.64	0.200	1.3
AUG 29...	0.290	0.080	0.22	0.30	0.59	0.240	3.9
SEP 25...	0.300	0.060	0.14	0.20	0.50	0.170	3.8

MOBILE RIVER BASIN

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	92	81	121	101	119	94	--	--	91	87	84	80
2	90	54	--	--	117	95	--	--	97	86	88	80
3	70	55	--	--	--	--	--	--	103	87	89	79
4	76	65	--	--	--	--	--	--	112	88	83	78
5	79	67	--	--	--	--	--	--	98	89	84	78
6	77	67	136	103	--	--	--	--	100	86	83	76
7	87	74	177	139	--	--	--	--	96	80	87	79
8	89	82	180	122	141	123	--	--	91	82	88	82
9	89	82	140	122	136	112	--	--	96	86	89	78
10	88	80	145	132	130	109	--	--	100	76	84	77
11	89	83	153	131	130	121	102	86	81	75	83	77
12	89	82	145	128	131	104	108	91	86	77	85	78
13	89	84	161	137	111	91	112	90	91	80	91	81
14	89	79	163	149	99	92	110	93	90	78	93	85
15	86	78	172	124	105	94	132	111	88	80	87	81
16	95	83	--	--	109	95	154	130	91	62	95	65
17	99	93	--	--	115	95	157	120	62	53	66	50
18	102	93	--	--	124	113	146	124	56	51	54	48
19	108	100	--	--	143	119	145	123	63	54	60	49
20	111	104	--	--	146	120	139	124	64	60	67	58
21	110	104	143	99	129	118	133	88	65	59	67	63
22	139	109	107	94	129	114	99	86	73	63	74	64
23	140	121	113	86	--	--	98	83	79	69	79	71
24	141	112	93	84	--	--	96	85	79	72	86	76
25	123	96	94	82	--	--	109	90	83	76	86	79
26	121	99	97	83	--	--	99	82	84	77	89	82
27	119	94	120	95	--	--	92	83	83	78	84	79
28	120	93	146	109	--	--	95	83	84	79	86	79
29	115	95	122	98	--	--	100	87	--	--	83	78
30	129	96	118	98	--	--	104	86	--	--	83	78
31	--	--	--	--	--	--	92	87	--	--	82	77
MONTH	141	54	180	82	146	91	157	82	112	51	95	48

MOBILE RIVER BASIN

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25°C, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

MOBILE RIVER BASIN

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.2	7.1	7.4	7.3	7.6	7.5	--	--	7.4	7.3	7.3	7.2
2	7.2	6.9	--	--	7.6	7.5	--	--	7.4	7.3	7.3	7.3
3	7.0	6.9	--	--	7.6	7.5	--	--	7.4	7.2	7.3	7.2
4	7.0	6.9	--	--	--	--	--	--	7.4	7.3	7.4	7.2
5	7.0	6.9	--	--	--	--	--	--	7.4	7.2	7.4	7.2
6	7.0	7.0	7.7	7.5	--	--	--	--	7.3	7.2	7.3	7.1
7	7.0	7.0	7.8	7.6	--	--	--	--	7.3	7.1	7.3	7.1
8	7.0	6.9	7.8	7.6	7.7	7.6	--	--	7.3	7.1	7.3	7.2
9	7.0	6.9	7.6	7.5	7.6	7.5	--	--	7.2	7.1	7.4	7.3
10	7.1	6.9	7.6	7.5	7.6	7.5	--	--	7.3	7.2	7.4	7.1
11	7.0	6.9	7.7	7.6	7.6	7.5	7.6	7.4	7.3	7.2	7.3	7.1
12	7.0	6.9	7.7	7.6	7.6	7.5	7.6	7.4	7.3	7.2	7.3	7.2
13	7.1	7.0	--	--	7.5	7.4	7.6	7.5	7.3	7.2	7.3	7.2
14	7.1	7.0	--	--	7.4	7.3	7.6	7.5	7.3	7.2	7.3	7.2
15	7.2	7.0	--	--	7.4	7.4	7.6	7.5	7.2	7.1	7.3	7.2
16	7.2	7.1	--	--	7.5	7.4	7.8	7.6	7.2	6.9	7.4	7.1
17	7.3	7.2	--	--	7.5	7.5	7.7	7.6	6.9	6.7	7.1	6.9
18	7.3	7.2	--	--	7.5	7.5	7.7	7.6	6.8	6.7	6.9	6.7
19	7.3	7.2	--	--	--	--	7.6	7.5	6.8	6.8	7.1	6.8
20	7.4	7.3	--	--	--	--	7.6	7.5	6.9	6.8	7.2	7.1
21	7.4	7.3	7.5	7.2	--	--	7.5	7.3	6.9	6.8	7.2	7.0
22	7.4	7.3	7.4	7.2	--	--	7.3	7.3	6.9	6.8	7.2	6.9
23	7.5	7.4	7.4	7.2	--	--	7.4	7.3	7.1	6.9	7.1	6.8
24	7.5	7.4	7.3	7.2	--	--	7.4	7.3	7.2	7.1	7.1	6.9
25	7.5	7.3	7.3	7.3	--	--	7.3	7.3	7.3	7.2	7.1	6.9
26	7.5	7.3	7.3	7.2	--	--	7.4	7.2	7.4	7.3	7.1	7.0
27	7.5	7.3	7.4	7.3	--	--	7.3	7.3	7.3	7.2	7.2	7.0
28	7.5	7.3	7.7	7.3	--	--	7.4	7.2	7.3	7.1	7.2	6.9
29	7.5	7.3	7.6	7.5	--	--	7.4	7.2	--	--	7.1	7.0
30	7.4	7.3	7.6	7.5	--	--	7.5	7.3	--	--	7.2	7.1
31	--	--	--	--	--	--	7.5	7.4	--	--	7.2	6.9
MONTH	7.5	6.9	7.8	7.2	7.7	7.3	7.8	7.2	7.4	6.7	7.4	6.7

MOBILE RIVER BASIN

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

MOBILE RIVER BASIN

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.0	18.5	18.5	17.0	12.0	11.5	--	--	10.0	9.0	11.5	11.0
2	19.0	18.5	--	--	12.0	11.5	--	--	10.5	9.5	11.0	11.0
3	20.0	19.0	--	--	--	--	--	--	11.5	10.5	11.5	11.0
4	20.5	19.5	--	--	--	--	--	--	17.5	11.5	12.0	11.0
5	20.5	19.5	--	--	--	--	--	--	13.5	12.5	12.0	11.0
6	20.5	19.5	--	--	--	--	--	--	13.0	11.5	12.0	11.5
7	20.0	19.5	17.5	15.5	--	--	--	--	12.0	11.0	12.5	11.5
8	20.0	19.5	17.0	15.5	11.0	10.5	--	--	11.5	11.0	12.0	12.0
9	19.5	18.5	17.0	16.0	11.0	10.0	--	--	12.0	11.0	11.5	11.0
10	--	--	17.0	16.0	10.0	9.5	--	--	12.0	11.5	11.5	10.5
11	--	--	16.5	15.5	9.5	9.5	9.0	8.0	12.5	12.0	12.5	11.5
12	19.5	18.5	16.5	15.0	9.5	8.5	8.5	8.0	12.5	11.5	13.5	12.5
13	20.0	19.0	17.0	15.5	9.0	8.0	8.0	7.0	12.0	11.5	14.5	13.5
14	20.5	19.5	16.5	15.5	8.0	7.5	8.0	7.0	12.0	11.5	15.0	14.0
15	20.5	19.5	17.0	16.0	8.0	7.5	9.0	8.0	12.5	11.5	15.0	14.5
16	21.0	20.0	--	--	8.0	7.0	10.0	9.0	14.5	12.5	15.5	14.5
17	21.0	20.5	--	--	7.5	7.0	10.0	9.0	14.5	14.0	16.0	15.0
18	21.0	20.0	--	--	--	--	11.0	9.5	14.0	13.0	16.0	15.0
19	20.0	18.5	--	--	--	--	11.5	11.0	13.0	12.5	15.5	15.0
20	18.5	17.0	--	--	--	--	16.5	11.0	13.0	12.5	15.0	14.0
21	17.0	16.5	13.0	11.5	--	--	17.0	11.5	12.5	12.0	14.5	13.5
22	17.5	16.5	13.5	12.5	--	--	12.0	11.5	12.0	12.0	14.0	13.5
23	17.5	16.5	13.0	11.5	--	--	11.5	10.0	12.0	11.5	14.5	13.5
24	18.5	16.5	11.0	10.5	--	--	10.0	9.5	12.0	11.0	15.0	14.0
25	18.5	17.5	10.5	9.5	--	--	10.5	10.0	11.5	10.5	15.0	14.0
26	18.5	17.5	10.0	9.0	--	--	10.5	10.0	10.5	10.0	14.5	14.0
27	18.5	17.5	11.0	9.5	--	--	10.0	9.0	10.5	10.0	14.0	13.5
28	18.5	17.5	13.5	11.0	--	--	9.5	9.0	11.0	10.0	14.0	13.5
29	19.0	17.5	13.5	13.0	--	--	9.5	9.0	--	--	14.0	13.5
30	19.5	18.0	13.0	12.0	--	--	10.0	9.0	--	--	13.5	13.5
31	--	--	--	--	--	--	9.5	9.0	--	--	14.0	13.5
MONTH	21.0	16.5	18.5	9.0	12.0	7.0	17.0	7.0	17.5	9.0	16.0	10.5

MOBILE RIVER BASIN

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

[illegible]

MOBILE RIVER BASIN

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.3	7.0	8.5	8.2	9.9	9.5	--	--	11.5	11.3	9.7	9.6
2	7.2	6.6	--	--	9.8	9.3	--	--	11.3	11.1	9.8	9.6
3	6.6	5.9	--	--	--	--	--	--	11.1	10.9	9.8	9.6
4	6.0	5.7	--	--	--	--	--	--	11.8	10.3	9.8	9.7
5	6.3	5.6	--	--	--	--	--	--	11.7	11.3	9.7	9.6
6	6.2	6.1	8.7	8.4	--	--	--	--	11.6	10.3	10.4	9.6
7	6.1	5.6	8.9	8.2	--	--	--	--	11.8	10.3	10.8	10.3
8	5.7	5.4	9.0	8.3	10.7	10.5	--	--	10.7	10.4	10.8	10.5
9	6.8	5.5	8.3	8.0	11.0	10.6	--	--	10.5	10.1	11.3	10.6
10	7.4	6.9	8.4	8.0	11.1	10.9	--	--	10.3	10.1	11.6	11.2
11	--	--	8.6	8.3	11.3	10.9	11.2	10.8	10.0	9.5	11.5	10.9
12	8.0	7.9	8.7	8.5	11.9	11.2	11.2	10.8	9.6	9.5	11.2	10.7
13	7.9	7.8	8.5	8.3	12.0	11.6	11.6	10.9	9.9	9.6	10.7	10.3
14	7.9	7.7	9.0	8.4	12.1	11.9	11.6	11.3	10.0	9.7	10.4	9.6
15	7.8	7.7	9.2	8.7	12.3	12.0	11.5	11.4	9.9	9.5	9.6	9.5
16	7.7	7.5	--	--	12.3	12.1	11.5	11.3	9.5	8.6	9.5	8.7
17	7.5	7.3	--	--	12.2	12.1	11.5	11.2	8.5	8.0	8.7	8.0
18	7.4	7.1	--	--	--	--	11.3	10.8	8.1	7.9	7.9	7.6
19	7.4	7.3	--	--	--	--	10.9	10.6	8.0	7.8	7.7	7.5
20	7.8	7.3	--	--	--	--	11.9	10.3	8.0	7.8	7.7	7.4
21	8.1	7.8	10.2	9.5	--	--	11.9	9.8	8.1	7.8	8.1	7.7
22	8.1	7.9	9.7	9.3	--	--	11.4	9.8	8.3	8.1	8.3	8.0
23	8.3	8.0	9.8	9.4	--	--	12.0	9.9	8.7	8.3	8.5	8.3
24	8.6	8.2	10.0	9.8	--	--	12.0	10.4	8.7	8.4	8.7	8.4
25	8.5	8.2	10.2	9.9	--	--	12.0	10.4	8.9	8.6	8.6	8.5
26	8.6	8.1	10.4	10.1	--	--	10.7	10.6	9.5	8.9	9.1	8.5
27	8.5	8.0	10.4	9.7	--	--	11.2	10.7	9.6	9.5	9.5	9.1
28	8.4	8.0	9.8	9.3	--	--	11.3	11.0	9.6	9.5	9.6	9.4
29	8.4	8.0	9.5	9.3	--	--	11.3	10.9	--	--	9.7	9.5
30	8.1	7.6	9.7	9.2	--	--	11.3	10.8	--	--	9.6	9.5
31	--	--	--	--	--	--	11.4	11.2	--	--	9.6	9.5
MONTH	8.6	5.4	10.4	8.0	12.3	9.3	12.0	9.8	11.8	7.8	11.6	7.4

[illegible]

MOBILE RIVER BASIN

02397845 SPRING CREEK NEAR TRION, GA.

LOCATION.--Lat 34°35'04", long 85°21'55", Chattooga County, Hydrologic Unit 03150105, at bridge on State Highway 337, 1.0 mi upstream from mouth, and 4.0 mi northwest of Trion.

DRAINAGE AREA.--24.0 mi².

PERIOD OF RECORD.--July 1975 to June 1977, July 1990 to September 1990.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
JUL 26...	0800	15	220	215	7.6	7.6	19.0	25.0	7.1	78
SEP 26...	0930	25	238	243	7.7	7.7	17.0	20.5	6.9	73

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CaCO ₃)	HARD- NESS NONCARB WH WAT TOT LAB MG/L AS CaCO ₃	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CaCO ₃	NITRO- GEN, NO ₂ + NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUL 26...	4.0	0.5	1100	110	7	103	0.420	<0.030	0.060	1.3
SEP 26...	3.0	0.8	790	120	6	114	0.380	0.030	0.050	1.6

MOBILE RIVER BASIN

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.

LOCATION.--Lat 34°28'03", long 85°20'19", Chattooga County, Hydrologic Unit 03150105, on left bank 600 ft downstream from bridge on U.S. Highway 27, 1 mi southeast of Summerville, and 4 mi upstream from Raccoon Creek. Highway 27, 1 mi southeast of Summerville, and
DRAINAGE AREA.--192 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1937 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 613.47 ft above National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Prior to Nov. 12, 1937, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 1 to Dec. 1, Feb. 16-17, and May 10 to June 8. Records good, except those for periods of estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--53 years, 359 ft³/s, 25.39 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,100 ft³/s, Feb. 16, 1990, gage height, 22.63 ft; minimum daily discharge, 38 ft³/s, Oct. 17, 1937, Nov. 9, 1939.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1200	6,420	15.23	Mar. 17	0500	13,300	18.25
Feb. 10	2100	4,030	13.48	May 10	1000	3,440	12.57
Feb. 16	1800	*30,100	*22.63				

Minimum discharge, 87 ft³/s, Sept. 9.

MOBILE RIVER BASIN

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5740	168	330	1200	870	493	390	243	295	138	107	91
2	4360	163	308	746	769	890	365	230	276	138	107	92
3	1620	158	287	596	890	1970	344	222	350	132	107	91
4	997	153	267	749	2100	1230	327	218	350	130	107	92
5	746	150	260	972	1460	935	313	385	283	129	130	91
6	597	181	248	1230	1070	757	310	272	258	128	140	91
7	496	336	241	1130	918	640	332	248	245	125	112	91
8	422	427	675	1980	760	1130	297	229	231	125	107	90
9	383	374	638	1580	701	2410	280	527	221	126	109	87
10	347	327	571	1100	2700	1880	282	2830	221	125	148	93
11	311	288	489	858	2230	1230	316	1140	214	126	114	99
12	287	261	999	706	1240	959	281	724	203	128	108	97
13	264	241	955	578	964	788	268	735	195	181	107	135
14	244	248	709	507	795	681	264	543	187	165	107	135
15	228	492	597	459	1040	631	264	446	204	139	105	110
16	222	1840	515	420	19600	5810	258	401	193	130	104	98
17	324	1000	441	389	10700	11400	251	424	184	126	102	95
18	351	706	402	411	2210	3270	251	387	178	122	100	92
19	409	550	388	384	1840	1630	238	331	173	128	99	95
20	338	464	373	619	1430	1280	231	354	165	127	100	94
21	301	407	333	2310	1210	1010	252	378	163	124	101	94
22	273	519	303	1280	1270	807	289	329	162	121	114	126
23	249	1850	265	942	1160	683	269	299	159	119	102	103
24	229	1010	255	828	885	597	246	281	152	119	101	95
25	210	732	253	1960	721	539	234	264	150	115	99	92
26	202	590	253	1750	626	496	227	252	148	113	96	93
27	194	489	246	1130	565	471	220	513	146	110	97	92
28	182	443	237	890	524	434	360	822	142	109	95	90
29	176	373	229	1360	---	435	379	481	141	108	95	88
30	174	339	247	1690	---	436	268	374	138	108	102	89
31	173	---	1070	1100	---	418	---	326	---	108	97	---
TOTAL	21049	15279	13384	31854	61248	46340	8606	15208	6127	3922	3319	2921
MEAN	679	509	432	1028	2187	1495	287	491	204	127	107	97.4
MAX	5740	1850	1070	2310	19600	11400	390	2830	350	181	148	135
MIN	173	150	229	384	524	418	220	218	138	108	95	87
CFSM	3.52	2.64	2.24	5.33	11.3	7.75	1.49	2.54	1.06	.66	.55	.51
IN.	4.06	2.94	2.58	6.14	11.81	8.93	1.66	2.93	1.18	.76	.64	.56
CAL YR 1989	TOTAL	196042	MEAN	537	MAX	5740	MIN	124	CFSM	2.78	IN	37.79
WTR YR 1990	TOTAL	229257	MEAN	628	MAX	19600	MIN	87	CFSM	3.25	IN	44.19

MOBILE RIVER BASIN

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 24...	1400	227	312	337	8.0	7.8	15.5	23.0	8.1	82
NOV 29...	1345	366	228	227	7.9	7.9	13.0	8.0	9.6	92
DEC 28...	0900	243	238	265	7.5	7.7	6.0	7.0	11.0	90
JAN 31...	0930	1130	150	160	7.3	7.7	9.0	8.0	10.4	91
FEB 27...	1345	556	185	196	7.5	7.6	9.5	18.0	10.8	94
MAR 27...	1450	464	223	228	7.8	7.9	14.0	21.0	10.2	100
APR 23...	1145	267	291	328	8.0	8.0	17.0	26.5	9.3	98
MAY 30...	1240	371	230	245	7.9	7.8	18.0	25.5	7.8	84
JUN 26...	1145	148	395	427	8.1	8.0	21.0	31.0	8.1	93
JUL 26...	0920	112	525	539	8.3	8.2	23.0	26.0	8.3	98
AUG 29...	1130	95	550	576	7.9	8.1	24.0	36.0	6.8	83
SEP 26...	0800	92	635	685	8.2	8.1	16.0	14.0	7.4	77

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CaCO3)	HARD- NESS NONCARB WH WAT TOT LAB MG/L AS CaCO3	ALKA- LITY WAT WH TOT FET LAB MG/L AS CaCO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 24...	2.0	0.6	80	100	0	125	0.440	<0.030	0.080	1.6
NOV 29...	5.0	1.2	<20	90	0	93	0.420	<0.030	0.110	1.6
DEC 28...	5.0	1.7	80	100	0	106	0.470	0.120	0.060	2.2
JAN 31...	13	1.0	210	54	0	58	0.380	0.120	0.080	2.0
FEB 27...	7.0	1.0	170	78	2	76	0.540	<0.030	0.070	2.2
MAR 27...	4.0	0.1	170	88	3	85	0.450	<0.030	0.220	2.3
APR 23...	4.0	0.4	490	100	0	115	0.500	<0.030	0.140	<1.0
MAY 30...	9.0	1.0	340	76	0	93	0.360	0.030	0.090	3.4
JUN 26...	3.0	0.5	80	130	0	154	0.470	0.190	0.150	2.3
JUL 26...	4.0	0.5	790	120	0	193	0.460	<0.030	0.360	2.7
AUG 29...	3.0	0.7	170	110	0	193	0.440	0.060	0.380	2.6
SEP 26...	4.0	1.1	330	120	0	226	0.520	0.380	0.250	11

MOBILE RIVER BASIN

02398037 CHATTOOGA RIVER AT CHATTOOGAVILLE, GA.

LOCATION.--Lat 34°20'08", long 85°26'43", Chattooga County, Hydrologic Unit 03150105, at bridge on Holland-Chattoogaville Road, 0.4 mi downstream from Hinton Creek, and 0.7 mi south of Chattoogaville.

DRAINAGE AREA.--281 mi².

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 24...	1300	E330	278	292	7.9	7.8	15.5	22.5	7.8	79
NOV 29...	1245	E540	218	217	7.8	7.7	13.0	8.5	9.8	94
DEC 28...	1000	E350	250	270	7.8	7.7	6.0	12.5	11.8	96
JAN 31...	1030	E1600	147	154	7.6	7.7	8.5	13.5	10.0	86
FEB 27...	1300	E820	180	187	7.9	7.6	9.0	17.5	11.0	95
MAR 27...	1350	E680	221	221	7.8	7.8	14.0	22.0	10.0	98
APR 23...	1230	E390	275	304	8.0	8.1	19.0	24.0	8.7	96
MAY 30...	1200	540	210	219	7.8	7.7	19.0	25.0	8.0	88
JUN 26...	1100	195	335	369	8.1	7.9	22.0	28.0	7.6	88
JUL 26...	0940	160	405	417	8.0	7.9	23.5	27.0	6.1	73
AUG 29...	1200	135	370	379	7.9	8.0	25.0	37.0	7.3	91
SEP 26...	1015	132	350	390	7.8	7.9	17.5	21.0	6.8	73

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CaCO3)	HARD- NESS NONCARB WH WAT TOT LAB MG/L AS CaCO3	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CaCO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 24...	3.0	--	0.5	80	110	0	116	7
NOV 29...	7.0	--	1.3	<20	92	0	92	8
DEC 28...	3.0	--	1.7	40	110	4	106	3
JAN 31...	18	--	0.9	790	58	1	57	29
FEB 27...	10	--	0.5	330	80	5	75	14
MAR 27...	5.0	--	0.1	1300	82	0	89	10
APR 23...	5.0	--	0.4	210	100	0	115	9
MAY 30...	15	--	1.0	490	80	0	84	31
JUN 26...	3.0	--	0.2	80	120	0	129	9
JUL 26...	5.0	9	0.7	150	120	0	150	12
AUG 29...	4.0	12	0.6	230	120	0	130	8
SEP 26...	3.0	6	1.2	70	130	0	135	5

MOBILE RIVER BASIN

02398037 CHATTOOGA RIVER AT CHATTOOGAVILLE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 24...	0.480	<0.030	--	--	--	0.110	1.5
NOV 29...	0.460	0.060	--	--	--	0.200	1.9
DEC 28...	0.490	0.190	--	--	--	0.040	1.9
JAN 31...	0.370	0.050	--	--	--	0.130	1.9
FEB 27...	0.520	<0.030	--	--	--	0.100	3.4
MAR 27...	0.430	<0.030	--	--	--	0.100	1.8
APR 23...	0.390	0.060	--	--	--	0.150	2.6
MAY 30...	0.380	0.060	--	--	--	0.120	3.3
JUN 26...	0.480	0.070	--	--	--	0.180	1.8
JUL 26...	0.670	<0.030	--	0.20	0.87	0.640	2.3
AUG 29...	0.500	<0.030	--	0.10	0.60	0.530	2.6
SEP 26...	0.560	0.030	--	<0.10	--	0.590	2.8

MOBILE RIVER BASIN

02411930 TALLAPOOSA RIVER BELOW TALLAPOOSA, GA.

LOCATION.--Lat 33°44'27", long 85°20'11", Haralson County, Hydrologic Unit 03150108, at bridge on U.S. Highway 78, 0.4 mi upstream from Walker Creek, and 2.7 mi west of Tallapoosa.

DRAINAGE AREA.--272 mi².

PERIOD OF RECORD.--July 1974 to current year.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 08...	1030	570	41	39	6.6	6.5	14.0	20.0	9.2	93
JAN 16...	1030	340	36	37	6.6	6.6	8.0	13.0	11.1	95
MAR 07...	1000	900	34	31	6.8	6.6	11.5	19.5	10.1	94
MAY 03...	0900	--	35	35	6.6	6.9	20.0	24.0	8.1	92
JUL 10...	0915	--	41	41	--	6.8	25.5	29.5	6.7	84
26...	1410	102	41	40	7.2	6.9	25.5	29.5	7.4	93
SEP 26...	1300	34	47	44	7.0	6.9	16.5	26.0	7.2	76

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 08...	32	2.3	5000	12	0.060	<0.030	0.120	4.2
JAN 16...	7.0	1.7	75	9	0.170	0.040	0.070	5.3
MAR 07...	13	0.6	80	6	0.200	0.160	0.160	2.1
MAY 03...	9.0	0.5	170	10	0.170	0.190	0.060	2.4
JUL 10...	8.0	1.0	170	<14	0.190	<0.030	0.060	2.2
26...	15	0.6	130	12	0.140	<0.030	0.100	3.8
SEP 26...	15	0.9	110	13	0.240	0.070	0.080	3.2

MOBILE RIVER BASIN

02413210 LITTLE TALLAPOOSA RIVER BELOW BOWDON, GA.

LOCATION.--Lat 33°29'34", long 85°16'45", Carroll County, Hydrologic Unit 03150108, at bridge on State Highway 100, 1.9 mi upstream from Indian Creek, and 3.8 mi southwest of Bowdon.

DRAINAGE AREA.--245 mi².

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 03...	1230	370	44	41	6.5	--	19.0	26.5	6.2	69
NOV 08...	1120	245	91	87	6.8	6.6	14.0	20.0	8.3	84
DEC 05...	1145	208	62	62	7.3	6.8	9.5	12.5	11.0	99
JAN 16...	1120	300	58	60	7.0	6.7	7.5	17.5	11.0	93
FEB 07...	0900	550	50	--	6.9	6.7	10.0	13.0	10.4	95
MAR 07...	1050	820	46	44	6.7	6.5	12.5	20.5	9.4	89
APR 05...	0830	490	52	49	6.9	6.7	11.5	14.0	8.4	80
MAY 03...	1000	295	49	47	6.8	6.8	21.0	25.0	7.5	86
JUN 07...	1045	235	53	51	6.7	6.6	22.0	32.5	7.4	87
JUL 10...	0830	--	88	86	--	6.8	26.0	29.0	6.0	76
26...	1500	86	78	75	7.2	7.0	25.5	28.5	7.5	94
AUG 07...	0730	40	75	70	7.1	6.9	24.0	23.0	6.2	76
SEP 04...	0745	29	120	118	7.0	7.0	24.0	28.0	5.5	67

MOBILE RIVER BASIN

02413210 LITTLE TALLAPOOSA RIVER BELOW BOWDON, GA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 03...	72	2.1	--	6	0.300	<0.030	0.180	--
NOV 08...	10	2.2	800	16	0.750	0.220	0.180	5.0
DEC 05...	9.0	2.2	250	16	0.500	0.200	0.090	4.8
JAN 16...	11	2.1	700	14	0.470	0.220	0.100	6.4
FEB 07...	21	1.7	220	11	0.430	0.100	0.070	2.6
MAR 07...	37	1.2	490	9	0.420	0.140	0.220	3.1
APR 05...	15	1.1	80	12	0.390	0.110	0.070	6.2
MAY 03...	17	0.9	330	12	0.500	0.050	0.090	2.9
JUN 07...	100	2.9	14000	9	0.760	0.100	0.160	5.0
JUL 10...	13	0.3	330	15	1.05	0.060	0.080	3.1
26...	11	0.4	490	16	0.650	<0.030	0.140	5.7
AUG 07...	14	1.0	490	13	0.820	<0.030	0.070	5.3
SEP 04...	15	0.9	1700	20	1.30	0.060	0.100	4.3

LAKES AND RESERVOIRS IN MOBILE RIVER BASIN

02381400 CARTERS LAKE NEAR CARTERS, GA.

LOCATION.--Lat 34°36'50", long 84°40'16", Murray County, Hydrologic Unit 03150102, at forebay of dam on Coosawattee River, 1.3 mi upstream from Talking Rock Creek, 1.3 mi east of Carters, 1.9 mi upstream from Louisville and Nashville Railway bridge, and at mile 26.8.

DRAINAGE AREA.--373 mi².

PERIOD OF RECORD.--November 1974 to current year.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by rolled rock-filled dam. Emergency spillway (crest elevation, 1,070 ft) is equipped with five tainter gates 42 ft wide by 36.6 ft high. There is one sluice 16.5 ft in diameter. Storage began Nov. 12, 1974. Lake first reached minimum pool, elevation, 1,022 ft, Mar. 17, 1975. Power operation began July 19, 1975. Capacity at primary flood control pool elevation, 1,099 ft, 472,800 acre-ft. Capacity at maximum power pool elevation, 1,072 ft, 377,100 acre-ft. Dead storage below elevation 1,022 ft, 242,200 acre-ft. Lake is used for flood control and power. Capacity table and monthend elevations furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 472,400 acre-ft Apr. 8, 1977, elevation, 1,099.16 ft; minimum, after first filling, 326,700 acre-ft Dec. 18, 1987, elevation, 1,055.70 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 450,900 acre-ft, Feb. 19, elevation, 1,093.50 ft; minimum, 328,900 acre-ft, Sept. 22, elevation, 1,056.45 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1077.90	395600	-	-
Oct. 31.....	1073.35	380600	-15000	-244
Nov. 30.....	1071.90	376000	-4600	-77
Dec. 31.....	1074.00	382800	+6800	+111
CAL YR 1989	-	-	+6700	+9
Jan. 31.....	1077.30	393600	+10800	+176
Feb. 28.....	1083.10	413300	+19700	+355
Mar. 31.....	1077.80	395300	-18000	-293
Apr. 30.....	1076.05	389500	-5800	-97
May 31.....	1073.60	381500	-8000	-130
June 30.....	1073.75	382000	+500	+8
July 31.....	1073.50	381100	-900	-15
Aug. 31.....	1064.30	352100	-29000	-472
Sept. 30.....	1058.10	333700	-18400	-309
WTR YR 1990	-	-	-61900	-85

LAKES AND RESERVOIRS IN MOBILE RIVER BASIN--Continued

02382400 CARTERS RE-REGULATION DAM NEAR CARTERS, GA.

LOCATION.--Lat 34°36'15", long 84°41'29", Murray County, Hydrologic Unit 03150102, at afterbay of main dam, on Coosawatee River, 0.2 mi downstream from Talking Rock Creek, 0.2 mi upstream from Louisville and Nashville Railway bridge, 1.5 midownstream from main dam and at mile 25.3.

DRAINAGE AREA.--520 mi².

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

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Reservoir is formed by concrete gravity dam with earth dikes on either side. Spillway (crest elevation, 662.5 ft) is equipped with four tainter gates 42 ft wide by 36.5 ft high. Capacity at maximum storage pool elevation, 698 ft, 17,600 acre-ft. Dead storage, 290 acre-ft. The reservoir is used for storage and re-regulation of power releases from Carters main dam. Capacity table and monthend elevations furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 18,800 acre-ft, Apr. 14, 1977, elevation, 699.36 ft; minimum, 320 acre-ft, June 6, 1983, elevation, 666.98 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 17,900 acre-ft, Nov. 17, elevation, 698.5 ft; minimum recorded, 2,050 acre-ft, July 30, elevation, 675.60 ft, but may have been less during a period of missing record.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	697.20	16800	-	-
Oct. 31.....	688.90	10700	-6100	-99
Nov. 30.....	690.57	12000	+ 1300	+ 22
Dec. 31.....	681.47	5400	-6600	-107
CAL YR 1989	-	-	-1500	-2
Jan. 31.....	688.09	10100	+ 4700	+ 76
Feb. 28.....	695.65	16200	+ 6100	+ 110
Mar. 31.....	690.40	11900	-4300	-70
Apr. 30.....	683.20	6500	-5400	-91
May 31.....	687.21	9400	+ 2900	+ 41
June 30.....	686.61	9000	-400	-7
July 31.....	683.98	7100	-1900	-31
Aug. 31.....	682.68	6200	-900	-15
Sept. 30.....	683.74	6900	+ 700	+ 12
WTR YR 1990	-	-	-9900	-14

LAKES AND RESERVOIRS IN MOBILE RIVER BASIN--Continued

02393500 ALLATOONA RESERVOIR NEAR CARTERSVILLE, GA.

LOCATION.--Lat 34°09'46", long 84°43'40", Bartow County, Hydrologic Unit 03150104, at forebay of dam on Etowah River, 2.8 mi upstream from Nashville, Chattanooga, & St. Louis Railway bridge, 4 mi east of Cartersville, and 6 mi upstream from Pumpkinvine Creek.

DRAINAGE AREA.--1,120 mi².

PERIOD OF RECORD.--December 1949 to current year.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by concrete gravity dam. Spillway (crest elevation, 835.0 ft) is equipped with nine tainter gates 40 ft wide by 25 ft high. There are four sluices 5.67 ft by 10 ft high and one sluice 4.0 ft in diameter.

Storage began Dec. 27, 1949; water in lake first reached minimum pool elevation Feb. 5, 1950. Total capacity at elevation 860.0 ft, top of gates, is 670,000 acre-ft, of which 587,100 acre-ft is controlled storage above 800 ft, minimum pool. Lake is used for flood control and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 693,800 acre-ft Apr. 10, 1964, elevation, 861.19 ft; minimum, 119,600 acre-ft Dec. 4, 1954, elevation, 809.34 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 591,900 acre-ft Mar. 24, elevation, 855.69 ft; minimum, 210,900 acre-ft Dec. 30, elevation, 824.05 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	843.35	408800	-	-
Oct. 31.....	835.35	315200	-93600	-1522
Nov. 30.....	826.86	233900	-81300	-1366
Dec. 31.....	825.23	220300	-13600	-221
CAL YR 1989	-	-	-10200	-14
Jan. 31.....	833.00	290900	+70600	+1148
Feb. 28.....	844.36	421800	+130900	+2357
Mar. 31.....	850.78	512500	+90700	+1475
Apr. 30.....	841.66	387500	-125000	-2101
May 31.....	841.05	380100	-7400	-120
June 30.....	840.55	374100	-6000	-101
July 31.....	838.72	352500	-21600	-351
Aug. 31.....	834.76	309000	-43500	-708
Sept. 30.....	834.19	303000	-6000	-101
WTR YR 1990	-	-	-105800	-146

TENNESSEE RIVER BASIN

03499927 LITTLE TENNESSEE RIVER NEAR DILLARD, GA.

LOCATION.--Lat 34°59'05", long 83°22'56", Rabun County, Hydrologic Unit 06010202, at bridge on State Highway 246, 0.8 mi downstream from Mud Creek, 0.9 mi north of Dillard, and at mile 137.5.

DRAINAGE AREA.--54.6 mi².

PERIOD OF RECORD.--July 1990 to September 1990.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
JUL 19...	1120	225	49	46	6.8	6.7	19.0	28.5	8.1	93
SEP 13...	1150	270	44	42	6.9	6.8	19.5	23.0	7.4	87

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUL 19...	22	0.9	4600	9	0.570	0.150	0.430	4.2
SEP 13...	60	2.0	35000	9	0.260	0.040	0.390	9.1

TENNESSEE RIVER BASIN

03544947 BRIER CREEK NEAR HIAWASSEE, GA.

LOCATION.--Lat 34°50'05", long 83°42'34", Towns County, Hydrologic Unit 06020002, on left bank, 0.3 mi upstream from Corbin Creek, and 8.2 mi southeast of Hiawassee.

DRAINAGE AREA.--1.67 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1984 to current year.

REVISED RECORDS.--WDR GA-89-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 2,180 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--6 years, 4.57 ft³/s, 37.15 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 413 ft³/s, Mar. 17, 1990, gage height 3.64 ft from rating curve extended above 40 ft³/s on basis of slope-area measurement of peak flow; minimum daily discharge, 0.56 ft³/s, Oct. 15-17, 1987.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 35 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	1315	133	3.03	Feb. 18	0600	37	2.43
Feb. 10	0345	45	2.59	Feb. 22	1330	38	2.44
Feb. 16	0545	370	3.57	Mar. 17	0530	*413	*3.64

Minimum daily discharge, 1.0 ft³/s, Sept. 7, 8.

REVISIONS.--The maximum discharges for all water years which have previously been published or published as "unknown" have been revised, as shown in the following table. They supersede figures published in reports for 1984 to 1989.

Water Year or Period	Date	Discharge (ft ³ /s)	Gage height (ft)
May to Sept. 1984	June 21, 1984	64	2.72
1985	August 17, 1985	26	2.40
1986	November 1, 1985	72	2.77
1987	November 26, 1986	185	3.19
1988	January 20, 1988	86	2.84
1989	June 20, 1989	72	2.77

TENNESSEE RIVER BASIN

03544947 BRIER CREEK NEAR HIAWASSEE, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	3.7	4.4	13	11	11	6.7	3.9	2.5	1.3	1.3	1.1
2	46	3.6	4.2	9.2	10	13	6.7	3.7	2.5	1.3	1.4	1.1
3	24	3.6	4.1	7.9	9.8	17	6.5	3.6	2.7	1.2	1.4	1.1
4	16	3.6	4.0	8.4	17	14	6.2	3.5	2.5	1.2	1.3	1.1
5	12	3.6	4.0	8.5	16	12	5.9	3.5	2.4	1.2	1.3	1.1
6	11	4.2	3.8	9.0	13	11	5.9	3.3	2.3	1.1	1.3	1.1
7	9.2	3.9	3.9	8.9	12	9.9	5.6	3.1	2.2	1.1	1.2	1.0
8	8.3	4.6	6.4	9.4	10	10	5.4	3.0	2.1	1.2	1.2	1.0
9	7.4	5.1	6.7	8.9	10	11	5.2	5.0	2.1	1.2	1.3	2.2
10	6.6	4.6	6.4	8.2	34	11	5.9	11	2.1	1.2	1.3	1.4
11	6.1	4.3	6.3	7.5	22	10	5.9	6.8	2.0	1.1	1.2	1.5
12	5.6	4.1	10	6.9	17	9.4	5.6	5.5	1.9	1.3	1.2	2.4
13	5.4	4.0	12	6.3	14	8.8	5.3	5.1	1.8	2.7	1.1	4.9
14	5.0	4.0	9.8	5.9	12	8.4	5.3	4.6	1.8	4.1	1.2	4.7
15	4.9	6.8	8.3	5.6	12	7.9	5.2	4.2	1.7	2.7	1.2	3.3
16	4.8	13	7.1	5.4	134	40	4.9	3.9	1.7	1.6	1.1	2.3
17	5.9	8.2	6.2	5.2	56	194	4.8	4.2	1.7	2.5	1.1	1.8
18	5.3	6.3	5.8	5.2	34	48	4.5	3.7	1.7	3.1	1.1	1.6
19	5.1	5.4	5.5	5.0	27	29	4.3	3.5	1.6	4.4	1.1	1.5
20	4.7	5.0	5.2	7.8	21	22	4.2	4.6	1.6	3.4	1.1	1.4
21	4.5	4.7	5.0	16	17	18	4.4	4.0	1.5	3.2	1.7	1.6
22	4.3	6.0	4.7	11	28	15	4.2	3.7	1.5	2.7	1.4	2.2
23	4.2	8.4	4.4	9.1	28	13	4.0	3.6	1.5	2.6	1.2	1.6
24	4.1	7.1	4.3	8.9	21	12	3.9	3.4	1.4	2.2	1.4	1.5
25	4.0	6.3	4.2	16	16	11	3.8	3.2	1.4	1.9	2.3	1.4
26	3.9	5.7	4.2	16	14	10	3.7	3.1	1.4	1.7	1.3	1.3
27	3.8	5.2	4.0	13	12	9.1	3.6	3.0	1.4	1.6	1.2	1.3
28	3.8	5.2	4.0	10	12	8.1	4.7	3.2	1.3	1.5	1.1	1.3
29	3.7	4.8	3.9	15	---	7.7	4.3	3.0	1.3	1.5	1.1	1.3
30	3.7	4.6	4.5	17	---	7.5	4.1	2.7	1.3	1.4	1.2	1.2
31	3.8	---	13	14	---	7.1	---	2.6	---	1.4	1.2	---
TOTAL	339.1	159.6	180.3	298.2	639.8	615.9	150.7	125.2	54.9	60.6	39.5	52.3
MEAN	10.9	5.32	5.82	9.62	22.9	19.9	5.02	4.04	1.83	1.95	1.27	1.74
MAX	102	13	13	17	134	194	6.7	11	2.7	4.4	2.3	4.9
MIN	3.7	3.6	3.8	5.0	9.8	7.1	3.6	2.6	1.3	1.1	1.1	1.0
CFSM	6.53	3.19	3.49	5.76	13.7	11.9	3.01	2.42	1.10	1.17	.76	1.04
IN.	7.55	3.55	4.01	6.64	14.24	13.71	3.35	2.79	1.22	1.35	.88	1.16
CAL YR 1989	TOTAL	2761.9	MEAN	7.57	MAX	102	MIN	2.0	CFSM	4.53	IN	61.49
WTR YR 1990	TOTAL	2716.1	MEAN	7.44	MAX	194	MIN	1.0	CFSM	4.46	IN	60.47

TENNESSEE RIVER BASIN

03558000 TOCCOA RIVER NEAR DIAL, GA.

LOCATION.--Lat 34°47'24", long 84°14'24", Fannin County, Hydrologic Unit 06020003, on right bank 1.4 mi upstream from Shallowford Bridge, 1.8 mi upstream from Stanley Creek, 2.5 mi northwest of Dial, and at mile 69.1.

DRAINAGE AREA.--177 mi².

PERIOD OF RECORD.--October 1912 to current year. Prior to January 1913 monthly discharges only, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 1386: 1923(M), 1924, 1927(M), 1929-32(M), 1933, 1934(M), 1944(M).

GAGE.--Water-stage recorder. Datum of gage is 1,782.08 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1927, water-stage recorder and Oct. 1, 1927 to Nov. 16, 1928, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: May 1-8. Records good, except those for the period of estimated daily discharge, which are fair.

AVERAGE DISCHARGE.--78 years, 492 ft³/s, 37.75 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,700 ft³/s, Aug. 23, 1967, gage height, 13.73 ft, from rating curve extended above 5,000 ft³/s on basis of slope-area measurement at gage height 11.20 ft, and a contracted-opening measurement at 13.73 ft; minimum, 60 ft³/s, Sept. 6, 1925, gage height, 0.40 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of November 1906 reached a stage of 18.5 ft, and is highest known since about 1840, from reports of Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 1	0315	3,600	6.04	Feb. 16	0745	*8,790	*10.13
Feb. 10	0930	3,450	5.89	Mar. 17	0815	*8,790	*10.13

Minimum daily discharge, 169 ft³/s, Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3230	376	468	1020	904	1140	1020	632	437	253	253	196
2	2090	370	455	717	874	1500	1030	606	433	255	278	192
3	1270	366	443	630	869	1710	1010	581	545	239	336	186
4	966	360	432	815	1320	1380	953	561	480	232	267	180
5	820	357	430	802	1100	1240	917	554	429	229	457	177
6	737	440	423	838	962	1160	909	538	407	224	310	175
7	678	424	422	794	951	1100	913	513	393	220	274	172
8	628	483	792	950	867	1160	860	488	382	216	260	169
9	591	532	675	848	979	1410	834	575	381	221	289	170
10	564	436	615	763	2690	1430	849	1100	374	262	417	194
11	544	402	558	706	1670	1230	938	689	353	247	298	213
12	524	386	919	664	1320	1140	847	597	345	259	267	193
13	507	375	829	621	1170	1080	805	585	339	406	255	343
14	492	392	686	603	1090	1050	779	543	336	791	253	419
15	480	559	639	583	1080	1020	782	515	336	437	246	303
16	478	1230	583	569	5920	2930	758	499	328	312	238	226
17	539	682	542	560	2900	6700	733	536	322	284	227	201
18	596	554	524	591	2060	3050	714	490	316	275	221	190
19	675	499	522	547	2030	2260	690	466	307	288	217	185
20	500	473	504	727	1710	1930	675	607	295	423	216	184
21	468	455	486	1490	1540	1730	677	559	290	413	224	190
22	449	596	462	909	1850	1590	684	505	297	488	217	423
23	435	970	440	777	1750	1480	674	480	298	612	224	261
24	424	648	472	777	1530	1400	669	459	282	390	212	211
25	416	573	509	1460	1370	1330	648	444	275	331	210	197
26	407	535	457	1260	1280	1280	631	433	270	305	206	190
27	399	509	434	995	1220	1220	620	497	265	288	201	185
28	395	583	429	879	1180	1150	743	610	264	272	195	181
29	388	512	423	1200	---	1140	789	623	275	268	206	180
30	383	482	522	1220	---	1110	660	491	259	261	245	177
31	382	---	1140	1010	---	1080	---	453	---	262	201	---
TOTAL	21455	15559	17235	26325	44186	50130	23811	17229	10313	9963	7920	6463
MEAN	692	519	556	849	1578	1617	794	556	344	321	255	215
MAX	3230	1230	1140	1490	5920	6700	1030	1100	545	791	457	423
MIN	382	357	422	547	867	1020	620	433	259	216	195	169
CFSM	3.91	2.93	3.14	4.80	8.92	9.14	4.49	3.14	1.94	1.81	1.44	1.22
IN.	4.51	3.27	3.62	5.53	9.29	10.54	5.00	3.62	2.17	2.09	1.66	1.36
CAL YR 1989	TOTAL	228339	MEAN	626	MAX	3230	MIN	287	CFSM	3.54	IN	47.99
WTR YR 1990	TOTAL	250589	MEAN	687	MAX	6700	MIN	169	CFSM	3.88	IN	52.67

TENNESSEE RIVER BASIN

03566800 SOUTH CHICKAMAUGA CREEK AT GRAYSVILLE, GA.

LOCATION.--Lat 34°58'39", long 85°08'42", Catoosa County, Hydrologic Unit 06020001, at bridge on Graysville Road at Graysville, 200 ft above dam at Swanson Mill, and 19.5 mi above mouth.

DRAINAGE AREA.--198 mi².

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 28...	1315	550	172	172	7.7	7.5	14.0	18.0	8.5	84
JAN 31...	0720	1470	107	110	7.4	7.5	9.0	6.0	10.3	91
MAR 28...	1350	88	195	191	7.8	7.8	13.0	24.0	9.4	91
MAY 29...	1200	202	218	224	7.7	7.8	19.0	24.0	7.8	87
JUL 25...	1110	98	252	264	7.9	7.9	24.0	28.0	6.2	75
SEP 25...	1300	100	218	224	7.9	7.7	18.0	22.5	6.2	67

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARB WH WAT TOT LAB MG/L AS CACO3	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 28...	7.0	1.7	110	86	15	71	0.580	0.030	0.030	1.9
JAN 31...	40	1.3	3600	46	6	40	0.410	<0.030	0.080	3.3
MAR 28...	4.0	0.8	460	100	20	80	0.480	<0.030	0.700	1.4
MAY 29...	18	0.9	330	94	0	96	0.500	<0.030	0.050	2.3
JUL 25...	10	0.2	80	130	13	117	0.520	0.040	0.110	1.8
SEP 25...	22	1.7	170	110	18	92	0.490	0.040	0.090	9.7

TENNESSEE RIVER BASIN

03567340 WEST CHICKAMAUGA CREEK NEAR LAKEVIEW, GA.

LOCATION.--Lat 34°57'26", long 85°12'20", Catoosa County, Hydrologic Unit 06020001, at bridge on State Highway 146, 3 mi southeast of Lakeview.

DRAINAGE AREA.--148 mi².

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Discharge, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 28...	1400	375	240	240	7.7	7.6	14.0	18.0	8.6	85
JAN 31...	0750	1150	147	153	7.7	7.8	10.0	6.0	10.0	90
MAR 28...	1420	257	232	239	7.8	7.7	14.0	23.5	9.5	94
MAY 29...	1300	313	143	143	7.5	7.5	18.5	24.5	8.0	88
JUL 25...	1130	67	280	290	7.7	7.7	23.5	29.0	5.4	65
AUG 30...	1030	40	--	272	7.5	7.7	24.0	27.5	5.4	--
SEP 25...	1345	59	--	266	7.8	7.6	18.0	22.5	6.0	--

DATE	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS TOTAL (MG/L AS CaCO3)	HARD- NESS NONCARB WAT TOT LAB MG/L AS CaCO3	ALKA- LINITY WAT TOT FET LAB MG/L AS CaCO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2 + NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 28...	10	1.6	220	110	5	105	--	0.690	0.050	0.150	2.2
JAN 31...	84	2.0	13000	68	3	65	98	0.340	<0.030	0.220	--
MAR 28...	9.0	1.0	1300	110	11	99	12	0.660	<0.030	1.78	<1.0
MAY 29...	220	2.7	9500	64	7	57	159	0.550	0.120	0.270	6.4
JUL 25...	12	0.1	330	130	5	125	14	0.690	<0.030	0.810	2.5
AUG 30...	8.0	--	230	130	8	122	11	0.390	<0.030	0.670	2.0
SEP 25...	14	2.1	700	120	13	107	9	0.500	0.050	1.28	2.6

TENNESSEE RIVER BASIN

03568933 LOOKOUT CREEK NEAR NEW ENGLAND, GA.

LOCATION.--Lat 34°53'51", long 85°27'47", Dade County, Hydrologic Unit 06020001, at bridge on county road 2214, 0.4 mi downstream of Squirrel Town Creek, 2.2 mi southeast of New England, and at mile 16.3.

DRAINAGE AREA.--149 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 663.80 ft above National Geodetic Vertical Datum of 1929 (levels by Tennessee Valley Authority). Aug. 30, 1979 to Oct. 4, 1988, at site 200 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Daily water temperatures for November 1980 to September 1984 published in reports of U.S. Geological Survey.

AVERAGE DISCHARGE.--11 years, 249 ft³/s, 22.69 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,000 ft³/s, Aug. 17, 1982, gage height, 20.73 ft; minimum daily discharge, 11 ft³/s, Aug. 17-18, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 31	1445	3,320	13.02	Feb. 10	1215	3,050	12.76
Jan. 8	1330	3,320	13.02	Feb. 16	1800	*14,300	*18.76
Feb. 4	0445	5,800	14.85	Mar. 17	0515	7,130	15.61

Minimum daily discharge, 20 ft³/s, Sept. 8-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2960	48	242	1430	681	300	203	312	113	41	31	26
2	1430	47	215	775	581	796	190	271	106	41	31	25
3	800	46	193	577	1000	1480	177	235	137	40	32	24
4	517	46	171	889	5010	896	168	451	183	38	54	25
5	374	42	159	1150	2010	675	160	608	123	37	84	22
6	291	81	147	1620	1110	534	160	360	108	37	52	22
7	235	91	134	1230	871	442	169	276	100	35	41	21
8	196	89	215	2740	687	868	154	228	94	35	36	20
9	165	135	286	1830	578	1930	146	330	89	43	60	20
10	142	127	276	1050	2410	1520	153	949	84	41	146	21
11	125	105	245	793	1580	973	176	627	81	49	59	25
12	110	95	501	621	942	748	160	443	75	59	43	27
13	99	86	627	476	732	600	152	428	71	278	39	30
14	93	85	468	394	589	514	148	345	69	118	36	45
15	86	136	395	341	1100	450	147	277	66	88	34	33
16	81	1020	341	298	10800	4180	141	387	68	68	33	28
17	87	617	286	263	5370	6130	136	275	63	65	31	24
18	85	408	256	278	1790	2330	137	247	60	56	31	23
19	80	313	242	266	1280	1200	128	190	58	49	30	22
20	76	262	222	646	954	885	122	187	56	45	30	22
21	71	230	195	2100	766	703	214	179	53	44	30	22
22	68	315	168	1030	759	571	320	175	54	59	47	42
23	65	1800	143	748	760	469	238	157	81	50	36	37
24	62	872	133	663	596	400	207	143	54	42	34	29
25	59	591	131	1600	488	341	183	131	50	39	29	27
26	57	453	133	1250	417	300	167	121	48	37	28	26
27	56	369	126	848	367	272	155	134	46	35	27	23
28	53	431	119	696	326	240	806	236	44	35	26	23
29	52	329	109	1230	---	240	571	167	43	33	26	23
30	49	275	116	1350	---	236	362	137	42	33	29	21
31	48	---	1860	875	---	218	---	124	---	32	26	---
TOTAL	8672	9544	8854	30057	44554	31441	6350	9130	2319	1702	1271	778
MEAN	280	318	286	970	1591	1014	212	295	77.3	54.9	41.0	25.9
MAX	2960	1800	1860	2740	10800	6130	806	949	183	278	146	45
MIN	48	42	109	263	326	218	122	121	42	32	26	20
CFSM	1.88	2.13	1.92	6.51	10.7	6.81	1.42	1.98	.52	.37	.28	.17
IN.	2.17	2.38	2.21	7.50	11.12	7.85	1.59	2.28	.58	.42	.32	.19
CAL YR 1989	TOTAL	136549	MEAN	374	MAX	5150	MIN	22	CFSM	2.51	IN	34.09
WTR YR 1990	TOTAL	154672	MEAN	424	MAX	10800	MIN	20	CFSM	2.85	IN	38.62

LAKES IN TENNESSEE RIVER BASIN

03553000 NOTTELY LAKE NEAR IVYLOG, GA.

LOCATION.--Lat 34°57'29", long 84°05'22", Union County, Hydrologic Unit 06020002, at dam on Nottely River, 1.3 mi upstream from Dooley Creek, 1.7 mi southwest of Ivylog, 2.5 mi upstream from Georgia-North Carolina State line, and at mile 21.0.

DRAINAGE AREA.--214 mi².

PERIOD OF RECORD.--January 1942 to current year.

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

REMARKS.--Lake is formed by rock and rolled earthfill dam with side channel spillway equipped with flashboards. Storage began Jan. 24, 1942; water in lake first reached minimum pool elevation Jan. 26, 1942. Total capacity at elevation 1,780.00 ft, top of flashboards, is 87,900 ft³/s-days, of which 59,100 ft³/s-days is controlled storage above elevation 1,735.00 ft, normal minimum pool. Lake is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 94,100 ft³/s-days Apr. 20, 1943, elevation, 1,780.50 ft; maximum elevation, 1,781.47 ft May 28, 1973; minimum (after first filling), 200 ft³/s-days Oct. 6, 1947, elevation, 1638.6 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 82,100 ft³/s-days June 4, elevation, 1,777.21 ft; minimum, 39,100 ft³/s-days Dec. 25, elevation, 1,746.66 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1770.94	70500	-	-
Oct. 31.....	1763.51	58900	-11600	-189
Nov. 30.....	1758.32	52000	-6900	-116
Dec. 31.....	1749.59	42000	-10000	-163
CAL YR 1989	-	-	+ 1000	+ 1
Jan. 31.....	1755.03	48000	+ 6000	+ 98
Feb. 28.....	1760.23	54400	+ 6400	+ 115
Mar. 31.....	1768.90	67100	+ 12700	+ 207
Apr. 30.....	1776.79	81200	+ 14100	+ 237
May 31.....	1777.07	81800	+ 600	+ 10
June 30.....	1774.93	77700	-4100	-69
July 31.....	1771.28	71100	-6600	-107
Aug. 31.....	1762.88	58000	-13100	-213
Sept. 30.....	1760.08	54200	-3800	-64
WTR YR 1990	-	-	-16300	-23

LAKES IN TENNESSEE RIVER BASIN--Continued

03558500 BLUE RIDGE LAKE NEAR BLUE RIDGE, GA.

LOCATION.--Lat 34°52'52", long 84°16'49", Fannin County, Hydrologic Unit 06020003, 400 ft upstream from Blue Ridge Dam on Toccoa River, 2.5 mi northeast of Blue Ridge, and at mile 53.0.

DRAINAGE AREA.--232 mi².

PERIOD OF RECORD.--December 1930 to current year (prior to Aug. 16, 1939, only midnight readings available).

GAGE.--Water-stage recorder. Datum of gage is at Tennessee Electric Power Company datum; to convert to National Geodetic Vertical Datum of 1929, subtract 0.18 ft from elevations given herein.

REMARKS.--Lake is formed by earth dam. Spillway equipped with five tainter gates 15 ft high by 22 ft wide. Dam completed and storage began Dec. 6, 1930. Total capacity at elevation 1,691.00 ft, top of gates, is 98,800 ft³/s-days, of which 92,800 ft³/s-days is controlled storage above 1,590.00 ft, normal minimum pool. Lake is used for power and recreation. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum contents recorded, 102,100 ft³/s-days Feb. 11, 1946, elevation, 1,691.54 ft; minimum (after first filling), 6,500 ft³/s-days Jan. 16, 1956, elevation, 1,587.75 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 95,700 ft³/s-days May 18, elevation, 1,689.15 ft; minimum, 52,000 ft³/s-days Dec. 21, elevation, 1,657.90 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1680.95	82600	-	-
Oct. 31.....	1672.63	70400	-12200	-198
Nov. 30.....	1669.85	66600	-3800	-64
Dec. 31.....	1657.50	53800	-12800	-208
CAL YR 1989	-	-	+20800	+29
Jan. 31.....	1671.27	68600	+14800	+241
Feb. 28.....	1679.52	80400	+11800	+212
Mar. 31.....	1681.32	83200	+2800	+46
Apr. 30.....	1686.80	91800	+8600	+145
May 31.....	1686.88	92000	+200	+3
June 30.....	1687.24	92500	+500	+8
July 31.....	1683.42	86400	-6100	-99
Aug. 31.....	1673.45	71600	-14800	-241
Sept. 30.....	1672.92	70800	-800	-13
WTR YR 1990	-	-	-11800	-16

DISCHARGE AT PARTIAL-RECORD STATIONS AND 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, peak discharge information is gathered and discharge measurements are often made at sites not included in the partial-record program. This information is usually collected in times of drought or flood to give better areal coverage to those events.

Records collected at crest-stage partial-record stations are presented in the following table. Peak discharges at miscellaneous sites and discharge measurements made at low-flow partial-record sites, miscellaneous sites, and for special studies are given in separate tables as appropriate.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1990

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft ³ /s)
SAVANNAH RIVER BASIN							
02191930	Buffalo Creek near Lexington, Ga.	Lat 33°46'40", long 83°03'01", Oglethorpe County, Hydrologic Unit 03060104, at culvert on State Highway 22, 7 mi southeast of Lexington.	5.60	1964-90	10-01-89	6.76	832
02195150	Kiokee Creek at Appling, Ga.	Lat 33°32'33", long 82°18'56", Columbia County, Hydrologic Unit 03060106, at U.S. Highway 221, at Appling.	43.9	1984-90	09-22-89 1990	9.65 (b)	a1,170 <730
02196605	Raes Creek tributary No. 1 at Augusta, Ga.	Lat 33°29'36", long 82°02'17", Richmond County, Hydrologic Unit 0306106, at culvert on Boy Scout Road at Augusta.	1.67	1979-90	08-22-90	6.64	†
02196760	Rocky Creek tributary at Augusta, Ga.	Lat 33°27'07", long 82°02'57", Richmond County, Hydrologic Unit 03060106, at culvert on U.S. Highways 78 and 278 at Augusta.	1.56	1979-90	08-22-90	4.22	225
02197190	McBean Creek near McBean, Ga.	Lat 33°14'12", long 82°02'38", Richmond-Burke County line, Hydrologic Unit 03060106, at State Highway 21, 5.5 miles west of McBean.	41.4	1963-90	1989 1990	4.26 (b)	a272 <180
OGEECHEE RIVER BASIN							
02200000	Ogeechee River at Jewell, Ga.	Lat 33°17'48", long 82°46'40", Hancock-Warren County line, Hydrologic Unit 03060201, at State Highway 16, at Jewell.	242	1971, 1984-90	10-01-89	22.16	7,800
02200400	Rocky Comfort Creek near Grange, Ga.	Lat 33°06'09", long 82°34'02", Jefferson County, Hydrologic Unit 03060201, at State Highway 88, 1.5 miles northeast of Grange.	188	1979-90	10-02-89	11.60	1,550

a Revised.

b Peak stage did not reach bottom of gage.

< Less than.

† Discharge not determined.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1990

						Annual maximum	
Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Discharge (ft ³ /s)
OGEECHEE RIVER BASIN--Continued							
02200930	Spring Creek (prior to 1987, published as Ogeechee River tributary) near Louisville, Ga.	Lat 32°55'20", long 82°18'49", Jefferson County, Hydrologic Unit 03060201, at culvert on State Highway 17, 8.5 miles southeast of Louisville.	14.2	1965-90	10-02-89	3.80	182
02202605	Mill Creek near Pembroke, Ga.	Lat 32°09'39", long 81°36'15", Bryan County, Hydrologic Unit 03060202, at culvert on State Highway 119, near Pembroke.	5.39	1979-90	12-08-89	2.56	141
02203543	Wilshire Canal near Savannah, Ga.	Lat 31°59'27", long 81°08'15", Chatham County, Hydrologic Unit 03060204, at culvert on Tibet Avenue near Savannah.	0.95	1979-90	08-02-90	6.11	162
02203544	Wilshire Canal tributary near Savannah, Ga.	Lat 31°58'25", long 81°08'20", Chatham County, Hydrologic Unit 03060204, at culvert on Windsor Road near Savannah.	.18	1979-90	10-18-89	2.89	61
ALTAMAHA RIVER BASIN							
02203835	Shoal Creek near Atlanta, Ga.	Lat 33°44'48", long 84°16'50", DeKalb County, Hydrologic Unit 03070103, at culvert on Line Street near Atlanta.	3.43	1974-90	02-09-90	6.91	966
02203845	Shoal Creek tributary near Atlanta, Ga.	Lat 33°43'05", long 84°15'45", DeKalb County, Hydrologic Unit 03070103, at culvert on Glendale Drive near Atlanta.	.84	1973-78, 1980-90	01-20-90	4.67	397
02203884	Conley Creek near Forest Park, Ga.	Lat 33°38'08", long 84°20'37", Clayton County, Hydrologic Unit 03070103, at culvert on Rock Cut Road near Forest Park.	1.88	1973-78, 1980-90	01-20-90	7.70	1,010
02204135	Camp Creek tributary near Stockbridge, Ga.	Lat 33°34'35", long 84°08'50", Henry County, Hydrologic Unit 03070103, at culvert on State Highway 155, 5 miles northeast of Stockbridge.	.28	1977-90	03-16-90	6.08	79
02205230	Wolf Creek near Suwanee, Ga.	Lat 34°00'04", long 84°02'57", Gwinnett County, Hydrologic Unit 03070103, at culvert on Dean Road near Suwanee.	c.39	1987-90	11-26-86 01-20-88 09-11-89 11-15-89	7.58 6.24 7.81 6.34	182 123 192 127
02206105	Jackson Creek near Lilburn, Ga.	Lat 33°53'12", long 84°12'42", Gwinnett County, Hydrologic Unit 03070103, at culvert on Angle's Lane near Lilburn.	c.18	1987-90	09-07-87 01-20-88 07-31-89 08-22-90	6.71 5.21 6.60 6.25	144 84 140 126
02206136	Jackson Creek tributary #1 near Lilburn, Ga.	Lat 33°53'19", long 84°10'59", Gwinnett County, Hydrologic Unit 03070103, at culvert on Williams Road near Lilburn.	c.36	1987-90	08-08-87 01-20-88 07-31-89 08-22-90	6.72 6.80 8.01 8.14	107 113 181 188
02206165	Jackson Creek tributary #2 near Lilburn, Ga.	Lat 33°54'09", long 84°10'10", Gwinnett County, Hydrologic Unit 03070103, at culvert on Worcester Place near Lilburn.	c.11	1987-90	08-08-87 01-20-88 07-16-89 08-22-90	11.40 8.50 10.34 10.54	100 72 90 92

c Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1990

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Discharge (ft ³ /s)
ALTAMAHA RIVER BASIN--Continued							
02206465	Watson Creek tributary #2 at Snellville, Ga.	Lat 33°51'46", long 84°02'07", Gwinnett County, Hydrologic Unit 03070103, at culvert on Tanglewood Drive at Snellville.	c0.20	1987-90	01-18-87 09-11-88 07-16-89 08-08-90	5.49 6.95 8.37 7.81	33 96 168 140
02214280	Savage Creek near Bullard, Ga.	Lat 32°35'34", long 83°28'11", Twiggs County, Hydrologic Unit 03070104, at U.S. Highway 23, 3 miles southeast of Bullard.	33.0	1979-90	02-10-90	7.58	91
02214820	Mossy Creek near Perry, Ga.	Lat 32°31'15", long 83°43'23", Houston County, Hydrologic Unit 03070104, at U.S. Highway 41, 4.5 miles north of Perry.	92.9	1979-90	03-17-90	5.86	200
02215245	Folsom Creek tributary near Rochelle, Ga.	Lat 32°00'15", long 83°25'58", Wilcox County, Hydrologic Unit 03070104, at culvert on State Highway 233, 4 miles north of Rochelle.	1.44	1965-90	01-09-90	1.93	41
02215800	Gum Swamp Creek near Chauncey, Ga.	Lat 32°07'28", long 83°03'37", Dodge County, Hydrologic Unit 03070105, at State Highway 165, 1.6 miles north of Chauncey.	221	1984-90	01-09-90	7.13	1,430
02217380	Mulberry River near Winder, Ga.	Lat 34°03'08", long 83°39'49", Barrow-Jackson County line, Hydrologic Unit 03070101, at State Highway 11, 4.5 miles northeast of Winder.	142	1976, 1984-90	10-01-89	12.58	3,980
02217400	Mulberry River tributary near Winder, Ga.	Lat 34°03'53", long 83°39'45", Jackson County, Hydrologic Unit 03070101, at culvert on State Highway 11, 6 miles northeast of Winder.	2.68	1965-90	02-10-90	7.31	1,690
02217505	Brooklyn Creek at Athens, Ga.	Lat 33°56'32", long 83°24'07", Clarke County, Hydrologic Unit 03070101, at culvert on Dudley Drive, at Athens.	1.44	1979-90	03-17-90	10.25	610
02217905	Tanyard Creek at Athens, Ga.	Lat 33°57'05", long 83°22'42", Clarke County, Hydrologic Unit 03070101, at culvert on Baxter Street at Athens.	0.42	1979-90	02-09-90	8.15	398
02223082	Buffalo Creek near Linton, Ga.	Lat 33°06'27", long 82°57'34", Hancock-Washington County line, Hydrologic Unit 03070102, at Hancock County Road 787, 2 miles southeast of Linton.	92.9	1985-90	10-01-90	13.92	2,210
02223349	Big Sandy Creek tributary near Irwinton, Ga.	Lat 32°48'11", long 83°13'37", Wilkinson County, Hydrologic Unit 03070102, at culvert on White Springs Road, 1.7 miles southwest of Irwinton.	c.50	1978-90	12-08-89	1.78	18
02224100	Turkey Creek near Dublin, Ga.	Lat 32°27'21", long 82°56'32", Laurens County, Hydrologic Unit 03070102, at U.S. Highways 319 and 441, 5 miles south of Dublin.	316	1984-90	12-08-89	12.39	2,020

c Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1990

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Discharge (ft ³ /s)
ALTAMAHA RIVER BASIN--Continued							
02225250	Little Ohoopsee River near Swainsboro, Ga.	Lat 32°33'44", long 82°28'03", Emanuel County, Hydrologic Unit 03070107, at U.S. Highway 80, 9 miles west of Swainsboro.	216	1970, 1972, 1980-90	10-04-89	7.40	2,720
02225330	Beaver Creek near Cobbtown, Ga.	Lat 32°16'52", long 82°11'27", Tattnall County, Hydrologic Unit 03070107, at culvert on State Highway 152, 3.2 miles west of Cobbtown.	9.58	1965-90	01-07-90	5.02	376
SATILLA RIVER BASIN							
02227422	Crooked Creek tributary near Bristol, Ga.	Lat 31°26'24", long 82°15'03", Pierce County, Hydrologic Unit 03070202, on County Road 1903, 2 miles west of Bristol.	0.42	1976-90	02-10-90	0.97	8
02227990	Satilla River tributary No. 2 at Atkinson, Ga.	Lat 31°13'32", long 81°51'10", Brantley County, Hydrologic Unit 03070201, on County Road 153 (revised), 0.3 mile north of Atkinson.	.38	1977-90	02-10-90	1.15	15
SUWANNEE RIVER BASIN							
02317564	Dukes Bay Canal at Valdosta, Ga.	Lat 30°49'13", long 83°16'20", Lowndes County, Hydrologic Unit 03110202, at culvert on Patterson Street at Valdosta.	c1.8	1987-90	12-11-86 08-02-88 07-22-89 12-08-89	5.86 5.99 5.95 4.58	235 249 244 92
02317600	Little River near Statenville, Ga.	Lat 30°42'13", long 83°07'18", Echols County, Hydrologic Unit 3110202, at State Highway 376, 5 miles west of Statenville.	199	1984-90	01-10-90	10.45	870
023177551	Sugar Creek tributary at Valdosta, Ga.	Lat 30°49'51", long 83°18'27", Lowndes County, Hydrologic Unit 03110203, at culvert on Hyde Park Road at Valdosta.	c0.28	1987-90	12-10-86 08-30-88 07-22-89 05-28-90	2.30 3.14 4.69 1.80	34 73 151 17
023177553	Onemile Branch at at Vallotton Street, at Valdosta, Ga.	Lat 30°50'58", long 83°16'38", Lowndes County, Hydrologic Unit 03110202, at culvert on Vallotton Street at Valdosta.	c1.1	1987-90	08-14-87 08-31-88 06-11-89 08-17-90	5.23 5.04 5.08 4.91	259 241 245 228
023177554	Onemile Branch at Wainright Drive, at Valdosta, Ga.	Lat 30°50'34", long 83°18'04", Lowndes County, Hydrologic Unit 03110203, at culvert on Wainright Drive at Valdosta.	c2.9	1987-90	08-14-87 08-02-88 07-22-89 08-17-90	8.56 6.47 7.08 6.34	789 644 718 628
023177556	Twomile Branch at Bemiss Road, at Valdosta, Ga.	Lat 30°52'09", long 83°16'43", Lowndes County, Hydrologic Unit 03110202, at culvert on Bemis Road at Valdosta.	c.16	1987-90	07-04-87 08-30-88 06-11-89 08-17-90	2.78 2.67 3.88 3.07	105 98 180 122

c Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1990

					Annual maximum		
Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Discharge (ft ³ /s)
SUWANNEE RIVER BASIN--Continued							
023177558	Twomile Branch at Oak Street, at Valdosta, Ga.	Lat 30°51'48", long 83°17'32", Lowndes County, Hydrologic Unit 03110202, at culvert on Oak Street at Valdosta.	c1.04	1987-90	08-14-87	7.47	639
					08-30-88	7.38	536
					11-27-88	7.03	280
					08-17-90	7.11	322
02317810	Arnold Creek tributary (prior to 1987, published as Little River tributary No. 2) near Tifton, Ga.	Lat 31°25'30", long 83°34'23", Tift County, Hydrologic Unit 03110204, at culvert on secondary road 546, 4 miles southwest of Tifton.	0.47	1965-90	01-09-90	2.09	49
OCHLOCKONEE RIVER BASIN							
02318565	Okapilco Creek tributary at Moultrie, Ga.	Lat 31°10'12", long 83°46'40", Colquitt County, Hydrologic Unit 03110203, at culvert on S.E. Tenth Street at Moultrie.	c.24	1987-90	02-22-87	2.58	42
					03-04-88	3.03	57
					06-08-89	2.50	40
					08-31-90	2.36	36
02326182	Olive Creek tributary at Thomasville, Ga.	Lat 30°49'51", long 83°57'51", Thomas County, Hydrologic Unit 03110103, at culvert on Baybrook Street at Thomasville.	c.15	1987-90	08-12-87	2.47	109
					04-19-88	2.69	133
					05-10-89	3.49	254
					08-27-90	3.32	225
02327203	Tributary of Ochlockonee River tributary at Moultrie, Ga.	Lat 31°09'54", long 83°47'35", Colquitt County, Hydrologic Unit 03110203, at culvert on S.W. Fourth Street at Moultrie.	c.24	1987-90	07-26-87	2.37	†
					05-10-88	2.94	159
					06-08-89	1.94	76
					08-31-90	2.64	132
02327204	Ochlockonee River tributary at Moultrie, Ga.	Lat 31°09'38", long 83°48'11", Colquitt County, Hydrologic Unit 03110203, at culvert on West Boulevard at Moultrie.	c1.7	1987-90	02-22-87	3.45	326
					03-04-88	5.35	†
					06-26-89	3.11	282
					08-31-90	3.58	343
02327350	Ochlockonee River tributary near Coolidge, Ga.	Lat 31°01'33", long 83°57'32", Thomas County, Hydrologic Unit 03120002, at culvert on State Highway 202, 5.5 miles west of Coolidge.	1.81	1965-90	01-01-90	1.70	100
02327355	Ochlockonee River near Coolidge, Ga.	Lat 31°00'08", long 83°56'21", Thomas County, Hydrologic Unit 03120002, at State Highway 188, 4 miles west of Coolidge.	260	1981-90	01-09-90	13.19	3,250
02327415	Little Ochlockonee River near Moultrie, Ga.	Lat 31°07'02", long 83°58'42", Colquitt County, Hydrologic Unit 03120002, at State Highway 111, 10 miles west of Moultrie.	44.8	1981-90	01-08-90	7.21	1,050
02327467	Oquina Creek at Wolf Street, at Thomasville, Ga.	Lat 30°50'12", long 83°59'38", Thomas County, Hydrologic Unit 03120002, at culvert on Wolf Street at Thomasville.	c1.04	1987-90	09-19-87	4.91	†
					02-18-88	4.84	197
					05-10-89	4.51	176
					02-16-90	4.03	145

c Approximately.

† Discharge not determined.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1990

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft ³ /s)
OCHLOCKONEE RIVER BASIN--Continued							
02327468	Oquina Creek at Cairo Road, at Thomasville, Ga.	Lat 30°51'02", long 84°00'10", Thomas County, Hydrologic Unit 03120002, at culvert on Cairo Road (Highway 84 west) at Thomasville.	c3.12	1987-90	09-19-87	3.71	558
					04-19-88	4.30	725
					08-26-89	3.52	497
					02-16-90	3.56	511
02327471	Bruces Branch at Thomasville, Ga.	Lat 30°50'39", long 83°58'36", Thomas County, Hydrologic Unit 03120002, at culvert on North Hansell Street at Thomasville.	c0.20	1987-90	08-12-87	5.87	81
					11-10-87	5.62	77
					08-25-89	6.21	86
					06-22-90	5.01	67
02327474	Bruces Branch tributary at Thomasville, Ga.	Lat 30°51'20", long 83°58'18", Thomas County, Hydrologic Unit 03120002, at culvert on Fontaine Drive at Thomasville.	c.14	1987-90	05-07-87	2.91	26
					05-10-88	2.68	39
					08-25-89	3.96	44
					08-28-90	4.63	56
02327860	Popple Branch near Whigham, Ga.	Lat 30°55'36", long 84°15'18", Grady County, Hydrologic Unit 03120002, at culvert on State Highway 179, 3.2 miles north of Whigham.	1.71	1977-90	03-17-90	2.02	83
APALACHICOLA RIVER BASIN							
02335347	Crooked Creek tributary #2 near Norcross, Ga.	Lat 33°57'24", long 84°14'43", Gwinnett County, Hydrologic Unit 03130001, at culvert on Holcomb Bridge Road near Norcross.	c0.21	1987-90	08-04-87	3.95	97
					02-04-88	3.27	49
					07-11-89	5.48	220
					08-22-90	5.63	232
02336090	North Fork Peachtree Creek tributary near Chamblee, Ga.	Lat 33°50'53", long 84°17'57", DeKalb County, Hydrologic Unit 03130001, at culvert on Meadow-cliff Drive near Chamblee.	.32	1974-90	10-01-89	6.75	150
02336102	North Fork Peachtree Creek tributary near Atlanta, Ga.	Lat 33°50'20", long 84°19'19", DeKalb County, Hydrologic Unit 03130001, at culvert on Drew Valley Road near Atlanta.	2.19	1973-78, 1980-90	02-09-90	7.65	1,030
02336238	South Fork Peachtree Creek tributary near Atlanta, Ga.	Lat 33°47'11", long 84°20'29", DeKalb County, Hydrologic Unit 03130001, at culvert on East Rock Springs Road near Atlanta.	.90	1974-90	03-17-90	4.57	579
02336700	South Utoy Creek tributary at East Point, Ga.	Lat 33°41'25", long 84°28'05", Fulton County, Hydrologic Unit 03130002, at culvert on Head-land Drive at East Point.	.79	1964-69††, 1970-78, 1980-90	10-01-89	4.68	313
02337448	Hurricane Creek tributary near Fairplay, Ga.	Lat 33°35'03", long 84°50'54", Douglas County, Hydrologic Unit 03130002, at culvert on State Highway 5, 8 miles east of Fairplay.	.33	1977-90	03-16-90	8.37	229

c Approximately.

†† Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1990

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Discharge (ft ³ /s)
APALACHICOLA RIVER BASIN--Continued							
02340250	Flat Shoal Creek near West Point, Ga.	Lat 32°53'53", long 85°04'41", Troup County, Hydrologic Unit 03130002, at State Highway 18, 5 miles east of Interstate Highway 85, near West Point.	204	1984-90	03-17-90	22.16	7,670
02341220	Mulberry Creek near Mulberry Grove, Ga.	Lat 32°42'11", long 84°57'29", Harris County, Hydrologic Unit 03130002, at county bridge on Hamilton-Mulberry Grove Road, near Mulberry Grove.	190	1984-90	03-17-90	27.74	21,000
02341544	Mill Branch at Columbus, Ga.	Lat 32°28'19", long 84°53'58", Muscogee County, Hydrologic Unit 03130003, at culvert on Chalbena Road at Columbus.	1.58	1977-90	03-16-90	10.59	1,390
02341546	Bull Creek tributary at Columbus, Ga.	Lat 32°28'38", long 84°55'36", Muscogee County, Hydrologic Unit 03130003, at culvert on Woodland Drive at Columbus.	0.26	1977-90	03-16-90	5.79	244
02341548	Lindsey Creek tributary at Columbus, Ga.	Lat 32°31'33", long 84°56'21", Muscogee County, Hydrologic Unit 03130003, at culvert on Canberra Avenue at Columbus.	1.42	1977-90	03-16-90	6.34	466
02341600	Juniper Creek near Geneva, Ga.	Lat 32°31'41", long 84°34'14", Talbot-Marion County line, Hydrologic Unit 03130003, at State Highway 41, 1.8 miles south of Geneva.	47.4	1963-90	03-17-90	11.78	4,300
02341723	Pine Knot Creek near Juniper, Ga.	Lat 32°26'14", long 84°39'25", Marion County, Hydrologic Unit 03130003, at State Highway 355, 8 miles south of Juniper.	31.3	1979-90	02-11-81 03-17-90	7.46 9.43	a764 1,960
02341900	Ochillee Creek near Cusseta, Ga.	Lat 32°21'53", long 84°49'02", Chattahoochee County, Hydrologic Unit 03130003, at Hourglass Road, 5 miles northwest of Cusseta.	53.3	1979-90	03-17-90	16.00	11,000
02343219	Bluff Springs Branch near Lumpkin, Ga.	Lat 32°01'53", long 84°53'18", Stewart County, Hydrologic Unit 03130003, at culvert on State Highway 27, 5.8 miles southwest of Lumpkin.	2.98	1977-90	03-17-90	4.70	568
02343244	Cemochechobee Creek near Coleman, Ga.	Lat 31°39'12", long 84°53'02", Randolph County, Hydrologic Unit 03130004, at County Road bridge 1576, 1.5 miles south of Coleman.	15.3	1984-90	10-02-90	6.16	(†)
02343267	Temple Creek near Blakely, Ga.	Lat 31°26'34", long 84°59'00", Early County, Hydrologic Unit 03130004, at culvert on State Highway 39, 5.2 miles north of Blakely.	2.78	1978-90	01-07-90	1.33	35

a Revised.

† Discharge not determined.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1990

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Discharge (ft ³ /s)
APALACHICOLA RIVER BASIN--Continued							
02346195	Lazar Creek near Talbotton, Ga.	Lat 32°44'33", long 84°33'20", Talbot County, Hydrologic Unit 03130005, at State Highway 41, 5 miles south of Talbotton.	81.3	1981, 1984-90	03-17-90	24.10	36,100
02346217	Coleoatchee Creek (formerly published as Celeoth Creek) near Manchester, Ga.	Lat 32°49'20", long 84°36'16", Talbot County, Hydrologic Unit 03130005, at culvert on County Road 39, 5 miles southeast of Manchester.	2.82	1969-86, 1989-90	03-16-90	8.31	1,750
02348485	Whitewater Creek near Butler, Ga.	Lat 32°30'14", long 84°20'03", Taylor County, Hydrologic Unit 03130005, at State Highway 137, 6.5 miles southwest of Butler.	17.3	1981-90	03-17-90	8.72	244
02349030	Cedar Creek near Rupert, Ga.	Lat 32°23'21", long 84°17'49", Taylor County, Hydrologic Unit 03130005, at U.S. Highway 19, 3 miles south of Rupert.	41.1	1980-90	10-01-89	4.40	496
02349330	Buck Creek tributary near Tazewell, Ga.	Lat 32°20'50", long 84°22'26", Schley County, Hydrologic Unit 03130006, at culvert on State Highway 240, 4.3 miles east of Tazewell.	c0.40	1977-90	10-01-89	4.37	103
02349350	Buck Creek near Ellaville, Ga.	Lat 32°18'35", long 84°17'36", Schley County, Hydrologic Unit 03130006, at U.S. Highway 19, 5 miles north of Ellaville.	146	1979-90	03-17-90	9.67	3,730
02349695	Horsehead Creek near Montezuma, Ga.	Lat 32°21'28", long 83°56'11", Macon County, Hydrologic Unit 03130006, at culvert on State Highway 224, 8.7 miles northeast of Montezuma.	.72	1977-90	07-21-90	6.17	167
02350685	Choctahatchee Creek tributary near Plains, Ga.	Lat 32°02'02", long 84°25'59", Sumter County, Hydrologic Unit 03130007, at culvert on U.S. Highway 280, 2.4 miles west of Plains.	.32	1977-90	07-21-90	1.17	8
02351210	Kinchafoonee Creek tributary at Albany, Ga.	Lat 31°36'23", long 84°10'54", Dougherty County, Hydrologic Unit 03130008, at culvert on Hoover and Sharon Streets at Albany.	c.10	1987-90	03-08-87 08-22-88 06-19-89 01-07-90	1.19 0.86 1.50 1.91	4.4 2.3 6.9 10
02351220	Kinchafoonee Creek tributary #2 at Albany, Ga.	Lat 31°37'06", long 84°11'25", Dougherty County, Hydrologic Unit 03130008, at culvert on Wilmar Lane at Albany.	c.18	1987-90	06-14-87 08-24-88 05-10-89 01-07-90	1.61 1.49 2.07 1.86	6.5 5.7 9.3 8
02352605	Emily Avenue Canal at Albany, Ga.	Lat 31°32'52", long 84°09'28", Dougherty County, Hydrologic Unit 03130008, at culvert on Emily Avenue at Albany.	c.15	1987-90	07-30-87 04-19-88 06-19-89 08-06-90	0.77 1.54 1.97 2.94	4.5 18 32 71

c Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1990

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Discharge (ft ³ /s)
APALACHICOLA RIVER BASIN--Continued							
02352964	Percosin Creek tributary at Albany, Ga.	Lat 31°35'47", long 84°14'03", Dougherty County, Hydrologic Unit 03130008, at culvert on Deans Drive at Albany.	c0.05	1987-90	06-16-87	2.30	4.3
					04-18-88	2.17	3.4
					02-21-89	1.83	1.7
					01-07-90	1.93	2.2
02356640	Spring Creek at Colquitt, Ga.	Lat 31°10'14", long 84°44'34", Miller County, Hydrologic Unit 03130010, at U.S. Highway 27 at Colquitt.	281	1981-90	02-10-90	9.27	3,430
MOBILE RIVER BASIN							
02384600	Pinhook Creek (prior to 1986, published as Mill Creek tributary) near Eton, Ga.	Lat 34°49'38", long 84°48'58", Murray County, Hydrologic Unit 03150101, at culvert on State Highway 286, 3 miles west of Eton.	4.28	1965-90	02-16-90	6.86	768
02384630	Conasauga River near Dawnville, Ga.	Lat 34°48'03", long 84°50'18", Whitfield-Murray County line, Hydrologic Unit 03150101, 2.6 miles southeast of Dawnville.	303	1984-90	02-16-90	24.30	(†)
02394820	Euharlee Creek at Rockmart, Ga.	Lat 33°59'55", long 85°03'09", Polk County, Hydrologic Unit 03150104, at U.S. Highway 278 (State Highway 6) at Rockmart.	42.1	1961, 1974, 1979, 1984-90	12-06-83	8.33	a1,760
					05-03-85	8.55	a1,860
					08-09-86	4.76	a636
					02-28-87	7.48	a1,380
					01-20-88	8.37	a1,770
					07-20-89	8.50	a1,840
	03-16-90	10.43	3,090				
02395990	Etowah River tributary near Rome, Ga.	Lat 34°16'02", long 85°08'18", Floyd County, Hydrologic Unit 03150104, at culvert on Atteiram Road near Rome.	.37	1979-90	02-16-90	7.41	185
02396510	Silver Creek tributary No. 2 at Lindale Road, near Rome, Ga.	Lat 34°12'56", long 85°10'09", Floyd County, Hydrologic Unit 03150104, at culvert on Lindale Road, near Rome.	.04	1979-90	02-16-90	3.36	41
02396550	Silver Creek tributary No. 3 at Rome, Ga.	Lat 34°13'26", long 85°09'14", Floyd County, Hydrologic Unit 03150104, at culvert on U.S. Highway 27, 0.4 mile north of U.S. Highway 411 interchange at Rome.	0.19	1979-90	02-16-90	5.17	162
02397830	Harrisburg Creek near Hawkins, Ga.	Lat 34°36'02", long 85°23'21", Walker County, Hydrologic Unit 03150105, at bridge on County Road 91, 0.7 mile west of Hawkins.	13.3	1980-82††, 1983-90	02-16-90	12.00	5,530

c Approximately.

† Discharge not determined.

†† Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1990

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Discharge (ft ³ /s)
MOBILE RIVER BASIN--Continued							
02411735	McClendon Creek tributary near Dallas, Ga.	Lat 33°50'59", long 84°57'20", Paulding County, Hydrologic Unit 03150108, at culvert on State Highway 120, 9.3 miles south-west of Dallas.	0.88	1977-90	10-01-89	5.01	392
02411902	Mann Creek tributary near Tallapoosa, Ga.	Lat 33°51'16", long 85°17'28", Haralson County, Hydrologic Unit 03150108, at culvert on State Highway 100, 7 miles north of Tallapoosa.	.12	1977-90	10-01-89	3.52	47

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Peak discharge at miscellaneous sites

The following table contains peak discharges at sites not included in the continuous gaging or crest-stage partial-record program. These discharges are generally obtained for discontinued gaging stations, discontinued crest-stage partial-record stations, or other miscellaneous sites to give better areal coverage of flood events.

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (ft)	Discharge (ft ³ /s)
SAVANNAH RIVER BASIN							
02191300	Broad River above Carlton, Ga. (Prior to 1918 published as near Carlton.)	Lat 34°04'24", long 83°00'12", Madison-Elbert County line, Hydrologic Unit 03060104, at State Highway 72, 2.8 mi northeast of Carlton.	760	1898-1912, 1913-18g, 1920-83g, 1986-90	10-01-89	27.50	m28,300
OGEECHEE RIVER BASIN							
02202000	Ogeechee River at Scarboro, Ga.	Lat 32°42'38", long 81°52'46", Jenkins County Hydrologic Unit 03060202, at abandoned highway bridge at Scarboro, 7.5 mi southeast of Millen.	c1,940	1938-71†, 1972-90	10-09-89	8.62	m5,620
ALTAMAHA RIVER BASIN							
02203900	South River near Atlanta, Ga.	Lat 33°39'58", long 84°13'29", DeKalb County, Hydrologic Unit 03070103, at Flakes Mill Road, 8 mi east of Atlanta city limits.	c99	1951-79†, 1980-83††, 1984-90	03-17-90	18.25	m9,400
02207500	Yellow River near Covington, Ga.	Lat 33°56'52", long 83°54'54", Newton County Hydrologic Unit 03070103, at U.S. Highway 278, 3.5 mi northwest of Covington.	378	1936, 1945-60, 1961-64, 1976-82††, 1983-90	03-18-90	19.66	m12,200
APALACHICOLA RIVER BASIN							
02331000	Chattahoochee River near Leaf, Ga.	Lat 34°34'37", long 83°38'09", Habersham County, Hydrologic Unit 03130001, at State Highway 115, 1.5 mi east of Leaf.	150	1940-71††, 1972-84, 1986-90	03-17-90	10.36	m8,920
02350600	Kinchafoonee Creek at Preston, Ga.	Lat 32°03'09", long 84°32'54", Webster County, Hydrologic Unit 03130007, at bridge on State Highway 41, 1 mi southwest of Preston, and 1 mi upstream from Harrell Mill Creek.	197	1951-77††, 1978-80, 1987-90	03-17-90	12.16	m14,500
TENNESSEE RIVER BASIN							
03545000	Hiwassee River at Presley, Ga.	Lat 34°54'17", long 83°42'01", Towns County, Hydrologic Unit 06020002, on left bank, 0.1 mi downstream from Cynth Creek, 0.5 mi southeast of Presley, and at mile 133.9.	45.5	1942-82††, 1983-90	02-16-89	9.78	m2,100
03550500	Nottley River near Blairsville, Ga.	Lat 34°50'28", long 83°56'10", Union County, Hydrologic Unit 06020002, on left bank 250 ft upstream from Arkaqua Creek, 2.7 mi southeast of Blairsville, and at mile 44.3.	74.8	1942-82††, 1983-90	02-16-90	11.84	m4,600

c Approximately.

m Annual maximum.

† Operated as a continuous-record gaging station.

†† Operated as a crest-stage partial-record station.

ACTIVE AND DISCONTINUED GAGING STATIONS

The following list contains discontinued and currently operated continuous-record streamflow stations on streams within the State of Georgia and its border with adjacent States. Daily streamflow record were collected and published for the periods of record shown for each station. Some stations have monthly figures published for additional periods other than those noted in the period of record column.

Station no.	Station name	Latitude	Longitude	Drainage area (mi ²)	Period(s) of record
02177000	Chattooga River near Clayton	34°48'50"	83°18'22"	207	Oct. 1, 1939 to Sept. 30, 1990
02178000	Chattooga River near Tallulah Falls	34°47'31"	83°19'22"	256	Jan. 1, 1917 to Jan. 27, 1918
					Oct. 1, 1918 to Sept. 30, 1929
02178400	Tallulah River near Clayton	34°53'25"	83°31'50"	56.5	July 15, 1964 to Sept. 30, 1990
02179000	Tallulah River near Seed	34°46'32"	83°31'17"	129	Jan. 1, 1916 to Apr. 25, 1920
02180500	Tiger Creek at Lakemont	34°46'52"	83°24'54"	26.0	Jan. 11, 1916 to Sept. 30, 1918
02181000	Tallulah River at Mathis	34°46'44"	83°24'43"	177	Mar. 27, 1913 to Sept. 30, 1916
02181500	Tallulah River at Tallulah Falls	34°44'16"	83°23'51"	183	July 15, 1904 to June 30, 1909
					Aug. 16, 1909 to June 30, 1910
					July 20, 1910 to Sept. 30, 1912
02182000	Panther Creek near Toccoa	34°40'40"	83°20'43"	32.5	Oct. 1, 1942 to Sept. 30, 1971
02184000	Tugaloo River near Hartwell	34°29'06"	82°54'33"	909	Apr. 28, 1925 to Sept. 30, 1927
					Feb. 1, 1940 to Sept. 30, 1960
02187252	Savannah River below Hartwell Lake near Hartwell	34°21'15"	82°48'55"	2,090	Oct. 1, 1984 to Sept. 30, 1990
02187500	Savannah River near Iva, S.C.	34°15'20"	82°44'42"	2,230	Oct. 1, 1950 to Sept. 30, 1981
02188500	Beaverdam Creek at Dewy Rose	34°10'52"	82°56'38"	38.4	Oct. 1, 1942 to Sept. 30, 1977
02188600	Beaverdam Creek above Elberton	34°10'07"	82°53'48"	72.0	Oct. 1, 1986 to Sept. 30, 1990
02188680	Beaverdam Creek near Elberton	34°08'29"	82°51'15"	89.6	Oct. 1, 1984 to June 30, 1986
02189000	Savannah River near Calhoun Falls, S.C.	34°04'15"	82°38'30"	2,880	Oct. 1, 1896 to Apr. 30, 1898
					Apr. 1, 1899 to Sept. 30, 1900
					Apr. 1, 1930 to Apr. 30, 1932
					Apr. 1, 1938 to Sept. 30, 1979
02189050	North Fork Broad River above Toccoa	34°34'25"	83°22'00"	3.66	Oct. 1, 1958 to Sept. 30, 1969
02189100	Denmans Creek near Toccoa	34°34'22"	83°22'00"	0.74	Apr. 15, 1956 to Sept. 30, 1969
02189500	North Fork Broad River near Toccoa	34°30'49"	83°19'19"	18.3	May 1, 1954 to Sept. 30, 1969
02189600	Bear Creek near Mize	34°29'07"	83°18'38"	3.62	Dec. 1, 1956 to Sept. 30, 1969
02190000	North Fork Broad River near Lavonia	34°27'10"	83°14'23"	42.0	May 1, 1954 to Sept. 30, 1969
02190100	Toms Creek near Eastanollee	34°29'01"	83°14'02"	3.79	Oct. 1, 1956 to Sept. 30, 1969
02190200	Toms Creek near Avalon	34°29'35"	83°13'23"	1.20	Oct. 1, 1954 to Sept. 30, 1969
02190500	Toms Creek near Martin	34°27'47"	83°13'19"	10.3	June 17, 1954 to Sept. 30, 1969
02191000	North Fork Broad River near Carnesville	34°19'25"	83°11'10"	119	Oct. 1, 1942 to Dec. 31, 1944
					May 1, 1954 to Sept. 30, 1969
02191200	Hudson River at Homer	34°20'15"	83°29'17"	61.1	June 1, 1959 to Sept. 30, 1979
02191500	Broad River near Carlton	34°03'56"	82°59'33"	762	July 1, 1897 to Dec. 31, 1912
02191970	Little Macks Creek near Lexington	33°56'09"	82°57'41"	1.77	Dec. 5, 1974 to Sept. 30, 1985
02192000	Broad River near Bell	33°58'27"	82°46'12"	1,430	Nov. 1, 1926 to July 31, 1932
					Aug. 1, 1937 to Sept. 30, 1990
02193340	Kettle Creek near Washington	33°40'57"	82°51'29"	33.9	Apr. 16, 1986 to Sept. 30, 1990
02193500	Little River near Washington	33°36'40"	82°44'40"	291	Oct. 1, 1949 to June 23, 1971
					May 1, 1989 to Sept. 30, 1990
02194000	Little River near Lincolnton	33°38'40"	82°28'40"	574	Jan. 1, 1943 to Mar. 31, 1951
02196820	Butler Creek at Fort Gordon	33°26'36"	82°07'43"	7.50	Oct. 1, 1968 to Jan. 22, 1991
02197000	Savannah River at Augusta	33°22'25"	81°56'35"	7,510	Apr. 1, 1883 to Sept. 30, 1891
					Apr. 1, 1896 to Sept. 30, 1906
					Apr. 1, 1925 to Sept. 30, 1990
02197320	Savannah River near Jackson, S.C.	33°13'01"	81°46'04"	7,800	Oct. 1, 1971 to Sept. 30, 1990
02197500	Savannah River at Burtons Ferry Bridge near Millhaven	32°56'20"	81°30'10"	8,650	Oct. 1, 1939 to Sept. 30, 1970
					Oct. 1, 1982 to Sept. 30, 1990
02197520	Brier Creek near Thomson	33°22'06"	82°28'06"	55.0	July 18, 1967 to Sept. 30, 1990
02197550	Little Brier Creek near Thomson	33°20'24"	82°27'29"	24.0	June 24, 1960 to June 30, 1967
02197600	Brushy Creek near Wrens	33°10'37"	82°18'21"	28.0	May 29, 1958 to Sept. 30, 1990
02197830	Brier Creek near Waynesboro	33°07'05"	81°57'50"	473	July 1, 1969 to Sept. 30, 1990
02198000	Brier Creek at Millhaven	32°56'00"	81°39'05"	646	Apr. 14, 1937 to Sept. 30, 1990
02198100	Beaverdam Creek near Sardis	32°56'15"	81°48'56"	30.8	June 7, 1986 to Sept. 30, 1990
02198500	Savannah River near Clio	32°31'30"	81°15'45"	9,850	Apr. 1, 1930 to Sept. 30, 1933
					Oct. 1, 1937 to Sept. 30, 1990
02198690	Ebenezer Creek at Springfield	32°21'56"	81°17'51"	181	Mar. 1, 1990 to Sept. 30, 1990
02200500	Ogeechee River near Louisville	32°58'03"	82°23'26"	800	Apr. 1, 1937 to Dec. 31, 1949
02201000	Williamson Swamp Creek at Davisboro	32°58'32"	82°36'36"	109	May 7, 1980 to Sept. 30, 1990
02202000	Ogeechee River at Scarboro	32°42'38"	81°52'46"	1,940	Apr. 1, 1937 to June 30, 1971
02202500	Ogeechee River near Eden	32°11'29"	81°24'58"	2,650	Apr. 27, 1937 to Sept. 30, 1990
02202600	Black Creek near Blitchton	32°10'04"	81°29'18"	232	Feb. 14, 1980 to Sept. 30, 1990
02203000	Canoochee River near Claxton	32°11'05"	81°53'20"	555	May 26, 1937 to Sept. 30, 1990
02203500	Canoochee River near Groveland	32°05'55"	81°43'43"	921	June 23, 1903 to Dec. 31, 1907

ACTIVE AND DISCONTINUED GAGING STATIONS--Continued

Station no.	Station name	Latitude	Longitude	Drainage area (mi ²)	Period(s) of record	
02203559	Peacock Creek at McIntosh	31°48'49"	81°31'13"	33.0	Oct. 1, 1966	to Sept. 30, 1977
02203600	South River at East Point	33°40'50"	84°25'15"	1.49	Oct. 1, 1963	to Sept. 30, 1969
02203900	South River at Flakes Mill Road near Atlanta	33°39'58"	84°13'29"	99.0	Aug. 23, 1979	to Sept. 30, 1983
02204070	South River at Klondike Road near Lithonia	33°37'47"	84°07'43"	182	Oct. 1, 1983	to Sept. 30, 1990
02204285	Pates Creek near Flippen	33°29'34"	84°14'44"	11.9	Aug. 9, 1977	to Sept. 30, 1984
02204500	South River near McDonough	33°29'48"	84°00'53"	456	Oct. 1, 1939	to Sept. 30, 1960
					Oct. 1, 1975	to Sept. 30, 1982
02205000	Wildcat Creek near Lawrenceville	34°00'08"	84°00'18"	1.59	Oct. 1, 1953	to Sept. 30, 1982
02205500	Pew Creek near Lawrenceville	33°56'05"	84°01'00"	2.23	Oct. 1, 1953	to Sept. 30, 1963
02206000	Shetley Creek near Norcross	33°57'20"	84°09'40"	0.98	Oct. 1, 1953	to Sept. 30, 1963
02206500	Yellow River near Snellville	33°51'11"	84°04'45"	134	Oct. 1, 1942	to Sept. 30, 1971
					Oct. 1, 1987	to Sept. 30, 1990
02207000	Garner Creek near Snellville	33°51'45"	84°05'50"	5.54	Oct. 1, 1953	to Sept. 30, 1963
02207500	Yellow River near Covington	33°36'52"	83°54'54"	378	Sept. 12, 1897	to Dec. 31, 1897
					May 9, 1899	to Dec. 31, 1901
					July 1, 1944	to Sept. 30, 1960
					Oct. 1, 1975	to Sept. 30, 1982
02208450	Alcovy River above Covington	33°38'24"	83°46'45"	185	Jan. 26, 1972	to Sept. 30, 1990
02208500	Alcovy River near Covington	33°35'35"	83°48'29"	228	May 1, 1901	to Dec. 31, 1904
02209000	Alcovy River below Covington	33°30'21"	83°49'30"	244	Oct. 1, 1928	to Apr. 30, 1932
					July 1, 1944	to Dec. 31, 1949
02209500	Alcovy River near Stewart	33°25'22"	83°49'43"	291	Sept. 16, 1905	to Dec. 31, 1906
02210500	Ocmulgee River near Jackson	33°18'28"	83°50'18"	1,420	May 18, 1906	to Sept. 30, 1915
					Aug. 1, 1939	to Sept. 30, 1960
					Oct. 1, 1975	to Sept. 30, 1982
					Mar. 1, 1987	to Sept. 30, 1990
02211300	Towaliga River near Jackson	33°15'50"	84°04'17"	105	June 1, 1960	to Sept. 30, 1971
02211459	Big Towaliga Creek near Barnesville	33°04'20"	84°11'04"	2.36	Oct. 1, 1974	to Sept. 30, 1980
02211500	Towaliga River near Forsyth	33°07'17"	83°56'36"	315	Feb. 1, 1929	to Mar. 31, 1932
					July 1, 1944	to Dec. 31, 1949
02212500	Ocmulgee River at Juliette	33°05'50"	83°47'10"	1,960	June 1, 1916	to Sept. 30, 1921
					July 2, 1974	to May 15, 1988
02212600	Falling Creek near Juliette	33°05'59"	83°43'25"	72.2	July 7, 1964	to Sept. 30, 1990
02213000	Ocmulgee River at Macon	32°50'19"	83°37'14"	2,240	Feb. 1, 1893	to July 31, 1912
					Oct. 1, 1928	to Sept. 30, 1990
02213050	Walnut Creek near Gray	32°58'20"	83°37'08"	29.0	Oct. 1, 1961	to Sept. 30, 1990
02213470	Tobesofkee Creek above Macon	32°52'02"	83°50'24"	156	Apr. 1, 1967	to Sept. 30, 1971
02213500	Tobesofkee creek near Macon	32°48'32"	83°45'30"	182	Apr. 1, 1937	to Sept. 30, 1990
02213700	Ocmulgee River near Warner Robins	32°40'17"	83°36'11"	2,690	Oct. 1, 1972	to Sept. 30, 1990
02214000	Echeconnee Creek near Macon	32°45'54"	83°50'22"	147	Apr. 1, 1937	to Sept. 30, 1943
02214500	Big Indian Creek at Perry	32°27'20"	83°44'21"	108	Oct. 1, 1943	to July 31, 1971
02215000	Ocmulgee River at Hawkinsville	32°16'50"	83°27'40"	3,800	Oct. 1, 1928	to Dec. 31, 1931
					Oct. 1, 1943	to Sept. 30, 1959
02215100	Tusawhatchee Creek near Hawkinsville	32°14'22"	83°30'06"	163	Apr. 1, 1986	to Sept. 30, 1990
02215400	Big Horse Creek near Lumber City	31°51'07"	82°49'37"	155	Oct. 1, 1958	to Dec. 31, 1961
02215500	Ocmulgee River at Lumber City	31°55'06"	82°40'26"	5,180	Oct. 1, 1936	to Sept. 30, 1990
02216000	Little Ocmulgee River at Towns	32°00'28"	82°45'10"	351	Apr. 1, 1937	to Dec. 31, 1946
02216180	Turnpike Creek near McRae	31°59'29"	82°55'19"	49.2	Jan. 1, 1983	to Sept. 30, 1990
02216610	Tillman Mill Creek near Lumber City	31°58'53"	82°38'32"	2.71	Oct. 1, 1974	to Sept. 30, 1985
02217000	Allen Creek at Talmo	34°11'34"	83°43'11"	17.3	July 7, 1951	to Sept. 30, 1971
02217475	Middle Oconee River near Arcade	34°01'54"	83°33'48"	340	Mar. 1, 1987	to Sept. 30, 1990
02217500	Middle Oconee River near Athens	33°56'48"	83°25'22"	398	Oct. 1, 1901	to Sept. 30, 1902
					Jan. 1, 1929	to Mar. 31, 1932
					May 1, 1937	to Sept. 30, 1990
02217900	North Oconee River at Athens	33°56'55"	83°22'04"	278	Oct. 1, 1928	to Mar. 31, 1932
					June 24, 1944	to Dec. 31, 1949
02218300	Oconee River near Penfield	33°43'16"	83°17'44"	940	Aug. 1, 1977	to Sept. 30, 1990
02218500	Oconee River near Greensboro	33°34'52"	83°16'22"	1,090	Aug. 1, 1903	to Sept. 30, 1932
					Apr. 1, 1937	to Sept. 30, 1978
02219000	Apalachee River near Bostwick	33°47'17"	83°28'27"	176	July 1, 1944	to Dec. 31, 1949
					Apr. 28, 1977	to Sept. 30, 1990
02219500	Apalachee River near Buckhead	33°36'31"	83°20'58"	436	Jan. 1, 1901	to Dec. 31, 1908
					Apr. 1, 1937	to Sept. 30, 1978
02220500	Oconee River near Sparta	33°20'05"	83°08'38"	1,830	Oct. 1, 1949	to Apr. 15, 1953
02220550	Whitten Creek near Sparta	33°23'12"	83°01'34"	15.0	June 22, 1960	to Apr. 16, 1986
02220900	Little River near Eatonton	33°18'50"	83°26'14"	262	Aug. 1, 1977	to Sept. 30, 1990
02221000	Murder Creek near Monticello	33°24'56"	83°39'43"	24.0	Oct. 1, 1951	to Sept. 30, 1971

ACTIVE AND DISCONTINUED GAGING STATIONS--Continued

Station no.	Station name	Latitude	Longitude	Drainage area (mi ²)	Period(s) of record	
02221525	Murder Creek below Eatonton	33°15'08"	83°28'53"	190	Apr. 27, 1977	to Sept. 30, 1990
02223000	Oconee River at Milledgeville	33°05'22"	83°12'56"	2,950	Sept. 1, 1903	to Sept. 30, 1990
02223300	Big Sandy Creek near Jeffersonville	32°48'15"	83°25'04"	31.0	Oct. 1, 1958	to Sept. 30, 1971
02223500	Oconee River at Dublin	32°32'40"	82°53'41"	4,400	Oct. 1, 1897	to Sept. 30, 1990
02224000	Rocky Creek near Dudley	32°29'38"	83°08'49"	62.9	Dec. 1, 1951	to Sept. 30, 1976
02224500	Oconee River near Mt. Vernon	32°11'28"	82°38'00"	5,110	Oct. 1, 1937	to Dec. 31, 1955
02225000	Altamaha River near Baxley	31°56'20"	82°21'13"	11,600	Aug. 14, 1949	to June 30, 1951
					Oct. 1, 1970	to Sept. 30, 1990
02225500	Ochoopee River near Reidsville	32°04'42"	82°10'39"	1,110	June 24, 1903	to Dec. 31, 1907
					May 25, 1937	to Sept. 30, 1990
02226000	Altamaha River at Doctortown	31°39'16"	81°49'41"	13,600	Oct. 1, 1931	to Sept. 30, 1990
02226100	Penholoway Creek near Jesup	31°34'00"	81°50'18"	210	July 1, 1958	to Sept. 30, 1990
02226500	Satilla River near Waycross	31°14'17"	82°19'29"	1,200	Apr. 1, 1937	to Sept. 30, 1990
02226600	Burket Creek near Roper	31°47'42"	82°37'33"	7.10	July 1, 1956	to Sept. 30, 1963
02226700	Whitehead Creek near Denton	31°44'00"	82°41'26"	28.0	July 1, 1956	to Sept. 30, 1963
02226900	Hurricane Creek near Hazelhurst	31°40'58"	82°34'15"	102	July 1, 1956	to Sept. 30, 1963
02227000	Hurricane Creek near Alma	31°34'00"	82°27'50"	139	Oct. 1, 1951	to Sept. 30, 1971
02227500	Little Satilla River near Offerman	31°27'04"	82°03'17"	646	Jan. 27, 1951	to Sept. 30, 1990
02228000	Satilla River at Atkinson	31°13'16"	81°52'03"	2,790	Mar. 21, 1930	to Sept. 30, 1990
02228500	North Prong St Marys River at Moniac	30°31'03"	82°13'50"	160	Feb. 1, 1921	to Dec. 31, 1923
					Feb. 1, 1927	to June 30, 1930
					Aug. 1, 1932	to June 30, 1934
					Oct. 1, 1950	to Sept. 30, 1990
02231000	St Marys River near Macclenny, FL	30°21'31"	82°04'54"	700	Oct. 1, 1926	to Sept. 30, 1990
02231253	St Marys River near Gross, FL	30°44'29"	81°41'17"	1,360	Apr. 1, 1966	to May 31, 1975
					Oct. 1, 1980	to Sept. 30, 1983
					Oct. 1, 1984	to Aug. 31, 1989
02314500	Suwannee River at Fargo	30°40'50"	82°33'38"	1,260	Jan. 28, 1927	to Dec. 9, 1931
					Apr. 20, 1937	to Sept. 30, 1990
02316000	Alapaha River near Alapaha	31°23'03"	83°11'33"	663	Apr. 26, 1937	to Sept. 30, 1976
02317000	Alapaha River at Mayday	30°49'40"	83°01'05"	1,300	Oct. 1, 1928	to Dec. 9, 1931
02317500	Alapaha River at Statenville	30°42'14"	83°02'00"	1,400	Jan. 28, 1921	to June 30, 1921
					Dec. 10, 1931	to Sept. 30, 1990
02317748	Withlacoochee River near Bemiss	30°57'24"	83°16'12"	501	Oct. 13, 1976	to Dec. 31, 1981
023177483	Withlacoochee River at McMillan Road near Bemiss	30°56'50"	83°16'22"	502	June 11, 1988	to Sept. 30, 1990
02317755	Withlacoochee River at U.S. 41 near Valdosta	30°53'33"	83°19'08"	537	Oct. 20, 1976	to Sept. 30, 1978
					Aug. 31, 1988	to Jan. 3, 1990
02317830	Little River near Lenox	31°15'15"	83°30'32"	208	May 1, 1967	to Sept. 30, 1971
					Oct. 1, 1976	to Sept. 30, 1978
02318000	Little River near Adel	31°09'18"	83°32'38"	577	June 12, 1940	to Sept. 30, 1971
02318500	Withlacoochee River near Quitman	30°47'35"	83°27'13"	1,480	Oct. 1, 1928	to Dec. 11, 1931
					June 9, 1937	to May 31, 1948
					Sept. 29, 1988	to Sept. 30, 1990
02318700	Okapilco Creek at State Route 33 near Quitman	30°49'32"	83°33'45"	269	Dec. 21, 1979	to Sept. 30, 1990
02327500	Ochlockonee River near Thomasville	30°52'32"	84°02'44"	550	Aug. 11, 1937	to June 30, 1971
02328000	Tired Creek near Cairo	30°51'54"	84°15'46"	60.0	Oct. 1, 1943	to Feb. 29, 1948
					Apr. 26, 1948	to June 30, 1971
02330450	Chattahoochee River at Helen	34°42'03"	83°43'44"	44.6	May 5, 1981	to Sept. 30, 1990
02331000	Chattahoochee River near Leaf	34°34'37"	83°38'09"	150	Feb. 21, 1940	to Sept. 30, 1971
02331500	Soque River near Demorest	34°34'23"	83°35'27"	156	July 6, 1904	to June 30, 1909
					May 30, 1929	to Dec. 25, 1931
					Mar. 27, 1940	to Dec. 31, 1951
02331600	Chattahoochee River near Cornelia	34°32'27"	83°37'14"	315	Aug. 21, 1957	to Sept. 30, 1990
02332000	King Branch near Alto	34°27'05"	83°36'45"	0.42	May 1, 1944	to Sept. 30, 1948
02333000	Chattahoochee River near Gainesville	34°19'17"	83°52'46"	559	June 26, 1901	to Sept. 27, 1902
					Dec. 28, 1902	to Dec. 31, 1903
					Apr. 28, 1937	to Feb. 29, 1956
02333500	Chestatee River near Dahlonga	34°31'41"	83°56'23"	153	July 8, 1929	to Jan. 31, 1932
					Apr. 1, 1940	to Sept. 30, 1990
02334430	Chattahoochee River at Buford Dam near Buford	34°09'25"	84°04'44"	1,040	Oct. 1, 1971	to Sept. 30, 1990
02334500	Chattahoochee River near Buford	34°07'34"	84°05'37"	1,060	Jan. 27, 1942	to Sept. 30, 1971
02334885	Suwanee Creek near Suwanee	34°01'56"	84°05'22"	46.8	Oct. 1, 1984	to Sept. 30, 1990
02335000	Chattahoochee River near Norcross	33°59'50"	84°12'07"	1,170	Jan. 1, 1903	to Sept. 30, 1946
					Oct. 1, 1956	to Sept. 30, 1990
02335450	Chattahoochee River at Eves Road above Roswell	33°59'09"	84°18'58"	1,220	July 7, 1976	to Sept. 30, 1990

ACTIVE AND DISCONTINUED GAGING STATIONS--Continued

Station no.	Station name	Latitude	Longitude	Drainage area (mi ²)	Period(s) of record
02335500	Chattahoochee River near Roswell	34°00'20"	84°19'53"	1,230	Oct. 1, 1941 to May 10, 1960
02335700	Big Creek near Alpharetta	34°03'02"	84°16'10"	72.0	May 1, 1960 to Sept. 30, 1990
02335870	Sope Creek near Marietta	33°57'14"	84°26'36"	29.2	Oct. 1, 1984 to Sept. 30, 1990
02336000	Chattahoochee River at Atlanta	33°51'33"	84°27'16"	1,450	Aug. 1, 1928 to Dec. 31, 1931
					Oct. 1, 1936 to Sept. 30, 1990
02336300	Peachtree Creek at Atlanta	33°49'10"	84°24'28"	86.8	June 20, 1958 to Sept. 30, 1990
02336380	Nancy Creek at Randall Mill Road at Atlanta	33°51'35"	84°25'28"	34.8	Oct. 1, 1963 to Sept. 30, 1964
02336490	Chattahoochee River at State Route 280 near Atlanta	33°49'01"	84°28'48"	1,600	Mar. 3, 1981 to Sept. 30, 1990
02336500	Chattahoochee River at Oakdale	33°48'46"	84°29'19"	1,600	Oct. 1, 1895 to Aug. 31, 1903
					Nov. 1, 1903 to May 31, 1904
02336700	South Utoy Creek Tributary at Headland Drive at East Point	33°41'25"	84°28'05"	0.79	Oct. 1, 1963 to Sept. 30, 1969
02337000	Sweetwater Creek near Austell	33°46'22"	84°36'53"	246	May 18, 1904 to Dec. 31, 1905
					Mar. 24, 1937 to Sept. 30, 1990
02337100	North Fork Camp Creek at Atlanta	33°39'40"	84°30'40"	5.25	Oct. 1, 1963 to Sept. 30, 1969
02337170	Chattahoochee River near Fairburn	33°39'24"	84°40'25"	2,060	July 6, 1965 to Sept. 30, 1990
02337500	Snake Creek near Whitesburg	33°31'46"	84°55'42"	37.0	Sept. 15, 1954 to Sept. 30, 1990
02338000	Chattahoochee River near Whitesburg	33°28'37"	84°54'04"	2,430	Oct. 1, 1938 to June 30, 1954
					Jan. 1, 1965 to Sept. 30, 1990
02338500	Chattahoochee River at Franklin	33°16'45"	85°06'00"	2,680	June 1, 1928 to Oct. 31, 1931
					Oct. 1, 1938 to Sept. 30, 1939
					Oct. 1, 1957 to Sept. 30, 1959
					Oct. 1, 1978 to Sept. 30, 1990
02338660	New River near Corinth	33°14'07"	84°59'16"	127	Oct. 1, 1978 to Sept. 30, 1990
02338840	Yellowjacket Creek near Hogansville	33°08'22"	84°58'31"	91.0	Oct. 1, 1978 to Sept. 30, 1985
02339000	Yellowjacket Creek near LaGrange	33°05'27"	85°03'40"	182	Jan. 20, 1951 to Mar. 31, 1971
02339500	Chattahoochee River at West Point	32°53'10"	85°10'56"	3,550	Aug. 1, 1896 to Sept. 30, 1990
02340000	Mill Creek near Warm Springs	32°52'03"	84°47'04"	0.87	Dec. 17, 1933 to Apr. 30, 1935
02340500	Mountain Oak Creek near Hamilton	32°44'28"	85°04'08"	61.7	Dec. 22, 1943 to Sept. 30, 1971
02341500	Chattahoochee River at Columbus	32°27'45"	84°59'52"	4,670	Aug. 23, 1929 to Sept. 30, 1990
02341800	Upatoi Creek near Columbus	32°24'48"	84°49'12"	342	Apr. 1, 1968 to Sept. 30, 1990
02342000	Upatoi Creek at Fort Benning	32°22'35"	84°56'40"	447	Oct. 1, 1942 to Dec. 31, 1947
02342850	Hannahatchee Creek at Union	32°09'10"	84°54'21"	121	June 1, 1964 to Sept. 30, 1965
02343200	Pataula Creek near Lumpkin	31°56'03"	84°48'12"	70.0	June 21, 1958 to Sept. 30, 1971
02343260	Chattahoochee River at Fort Gaines	31°36'15"	85°03'19"	7,570	Oct. 1, 1960 to Sept. 30, 1962
02343500	Chattahoochee River at Columbia, Ala.	31°17'11"	85°05'45"	8,040	July 27, 1928 to Sept. 30, 1960
02343801	Chattahoochee River at Andrews Lock and Dam at Columbia, Ala.	31°15'33"	85°06'37"	8,210	Oct. 1, 1975 to Sept. 30, 1990
02344000	Chattahoochee River at Alaga, Ala.	31°06'54"	85°02'43"	8,340	May 1, 1938 to Dec. 31, 1944
					Oct. 1, 1960 to Sept. 30, 1970
02344300	Camp Creek near Fayetteville	33°31'00"	84°25'39"	17.2	June 1, 1960 to Sept. 30, 1973
02344350	Flint River near Lovejoy	33°24'56"	84°23'05"	130	May 7, 1985 to Sept. 30, 1990
02344500	Flint River near Griffin	33°14'39"	84°25'45"	272	Mar. 1, 1937 to Sept. 30, 1990
02344700	Line Creek near Senoia	33°19'10"	84°31'25"	101	Sept. 1, 1964 to Sept. 30, 1990
02345000	Flint River near Molena	32°59'21"	84°31'45"	990	Oct. 1, 1945 to June 30, 1953
02345500	Flint River near Woodbury	32°57'59"	84°31'58"	1,090	Apr. 1, 1900 to Sept. 30, 1920
02346180	Flint River near Thomaston	32°50'20"	84°25'27"	1,220	May 21, 1966 to Sept. 30, 1990
02346500	Potato Creek near Thomaston	32°54'15"	84°21'45"	186	Oct. 1, 1937 to June 30, 1971
02347500	Flint River near Culloden	32°43'17"	84°13'57"	1,850	July 1, 1911 to May 31, 1923
					July 21, 1928 to Dec. 31, 1931
					Mar. 18, 1937 to Sept. 30, 1990
02348500	Whitewater Creek near Butler	32°28'02"	84°15'59"	80.0	Oct. 1, 1943 to Sept. 30, 1951
02349000	Whitewater Creek below Rambulette Creek near Butler	32°28'00"	84°15'58"	93.4	Oct. 1, 1951 to Sept. 30, 1971
02349500	Flint River at Montezuma	32°17'53"	84°02'38"	2,900	Oct. 1, 1904 to Dec. 31, 1909
					Jan. 1, 1911 to Dec. 31, 1912
					July 1, 1930 to Sept. 30, 1990
02349900	Turkey Creek at Byromville	32°11'44"	83°54'03"	45.0	June 20, 1958 to Sept. 30, 1990
02350000	Flint River near Vienna	32°03'38"	83°58'36"	3,390	Oct. 1, 1926 to Sept. 30, 1930
02350080	Lime Creek near Cobb	32°02'06"	83°59'33"	61.8	Apr. 30, 1983 to Jan. 11, 1984
02350220	Gum Creek at Coney	31°57'40"	83°53'05"	73.0	Apr. 30, 1983 to Jan. 11, 1984
02350300	Cedar Creek near Cordele	31°54'45"	83°51'18"	34.0	Apr. 30, 1983 to Jan. 11, 1984
02350500	Flint River at Oakfield	31°46'07"	83°59'24"	3,860	Oct. 1, 1929 to Dec. 31, 1958
02350512	Flint River at State Highway 32 near Oakfield	31°43'30"	84°01'07"	3,880	May 1, 1987 to Sept. 30, 1990
02350600	Kinchafoonee Creek at Preston	32°03'09"	84°32'54"	197	Oct. 1, 1951 to Sept. 30, 1977
02350900	Kinchafoonee Creek near Dawson	31°45'52"	84°15'12"	527	Mar. 7, 1985 to Sept. 30, 1990

Station no.	Station name	Latitude	Longitude	Drainage area (mi ²)	Period(s) of record
02351000	Kinchafoonee Creek near Leesburg	31°43'10"	84°11'08"	586	Apr. 1, 1906 to Dec. 31, 1909
02351890	Muckalee Creek at State Route 195 near Leesburg	31°46'34"	84°08'22"	362	Dec. 15, 1979 to Sept. 30, 1990
02352500	Flint River at Albany	31°35'39"	84°08'39"	5,310	Oct. 1, 1901 to June 30, 1921 Oct. 1, 1929 to Sept. 30, 1990
02353000	Flint River at Newton	31°18'34"	83°20'06"	5,740	Apr. 1, 1938 to Sept. 30, 1945 Oct. 1, 1946 to Sept. 30, 1947 Jan. 1, 1949 to Sept. 30, 1950 Oct. 1, 1956 to Sept. 30, 1990
02353400	Pachitla Creek near Edison	31°33'17"	84°40'43"	188	June 9, 1959 to Sept. 30, 1971 Mar. 24, 1988 to Sept. 30, 1990
02353500	Ichawaynochaway Creek at Milford	31°22'58"	84°32'52"	620	Sept. 1, 1905 to Dec. 31, 1907 Oct. 1, 1939 to Sept. 30, 1990
02354000	Alligator Creek near Milford	31°21'17"	84°33'58"	14.0	Jan. 1, 1942 to May 31, 1952
02354500	Chickasawhatchee Creek at Elmodel	31°21'09"	84°29'10"	320	Oct. 1, 1939 to Dec. 31, 1949
02355000	Ichawaynochaway Creek at Newton	31°16'00"	84°29'00"	1,020	Aug. 10, 1937 to Mar. 31, 1939 Oct. 1, 1939 to Sept. 30, 1947
02355500	Big Cypress Creek near Milford	31°15'15"	84°36'18"	12.0	Jan. 1, 1942 to Dec. 31, 1949
02356000	Flint River at Bainbridge	30°54'41"	84°34'48"	7,570	Oct. 1, 1907 to Dec. 31, 1913 Oct. 1, 1928 to Sept. 30, 1971
02356500	Long Branch near Damascus	31°17'55"	84°42'11"	18.0	Feb. 1, 1945 to Dec. 31, 1949
02357000	Spring Creek near Iron City	31°02'23"	84°44'18"	485	June 11, 1937 to Apr. 30, 1971 Dec. 20, 1976 to Sept. 30, 1978 June 7, 1982 to Sept. 30, 1990
02379000	Cartecay River near Cartecay	34°38'19"	84°24'32"	86.4	July 1, 1904 to Dec. 31, 1905 Dec. 12, 1918 to June 30, 1921
02379500	Cartecay River near Ellijay	34°40'53"	84°27'20"	134	Mar. 17, 1937 to Sept. 30, 1977
02380000	Ellijay River at Ellijay	34°41'06"	84°28'40"	87.7	May 4, 1907 to Dec. 31, 1907 Dec. 10, 1918 to June 30, 1921 Feb. 26, 1953 to Sept. 30, 1969
02380500	Coosawattee River near Ellijay	34°40'18"	84°30'31"	236	Oct. 1, 1938 to Dec. 31, 1949 June 1, 1963 to Sept. 30, 1990
02381000	Mountaintown Creek near Ellijay	34°45'00"	84°33'25"	31.5	Oct. 1, 1939 to Dec. 31, 1942
02381500	Coosawattee River near Carters	34°36'45"	84°40'15"	374	Sept. 12, 1925 to Dec. 10, 1931 Oct. 1, 1961 to Sept. 30, 1964
02381600	Fausett Creek near Talking Rock	34°34'17"	84°27'55"	9.99	Oct. 1, 1974 to Sept. 30, 1990
02381950	Scarecorn Creek above Hinton	34°27'11"	84°33'28"	6.4	July 22, 1986 to Jan. 16, 1991
02382000	Scarecorn Creek at Hinton	34°28'04"	84°35'30"	21.3	Apr. 1, 1939 to Dec. 31, 1942 May 1, 1959 to Sept. 30, 1974 Aug. 1, 1986 to Sept. 30, 1990
02382200	Talking Rock Creek near Hinton	34°31'22"	84°36'40"	119	Nov. 1, 1973 to Sept. 30, 1990
02382300	Talking Rock Creek near Carters	34°35'20"	84°40'05"	142	Oct. 1, 1963 to Sept. 30, 1971
02382500	Coosawattee River at Carters	34°36'13"	84°41'44"	521	Sept. 1, 1896 to Dec. 1, 1908 Dec. 21, 1918 to Sept. 30, 1923 Oct. 1, 1961 to Sept. 7, 1972 Oct. 1, 1974 to Sept. 30, 1990
02383000	Rock Creek near Fairmount	34°21'32"	84°46'46"	6.17	Oct. 1, 1951 to Sept. 30, 1974
02383500	Coosawattee River near Pine Chapel	34°33'51"	84°49'59"	831	Nov. 11, 1938 to Sept. 30, 1990
02384000	Conasauga River near Tennega	35°00'34"	84°44'02"	108	May 27, 1929 to Dec. 31, 1931 Oct. 1, 1943 to Dec. 31, 1947
02384500	Conasauga River near Eton	34°49'40"	84°51'03"	252	Oct. 1, 1981 to Sept. 30, 1990
02384540	Mill Creek near Crandall	34°52'19"	84°43'17"	8.27	Jan. 30, 1985 to Sept. 30, 1990
02385000	Coahulla Creek near Varnell	34°53'43"	84°55'15"	86.7	Oct. 1, 1939 to Dec. 31, 1942
02385500	Mill Creek at Dalton	34°47'18"	84°58'30"	40.1	Aug. 1, 1943 to Sept. 30, 1959
02385800	Holly Creek near Chatsworth	34°43'00"	84°46'12"	64.0	June 1, 1960 to Sept. 30, 1990
02386000	Rock Creek at Ramhurst	34°42'42"	84°44'03"	16.5	Apr. 1, 1939 to June 30, 1940
02386500	Drowning Bear Creek near Dalton	34°43'30"	84°56'12"	13.9	Apr. 1, 1939 to June 30, 1940
02387000	Conasauga River at Tilton	34°40'00"	84°55'42"	687	June 5, 1937 to Sept. 30, 1990
02387500	Oostanaula River at Resaca	34°34'42"	84°56'29"	1,600	Nov. 1, 1892 to Sept. 30, 1990
02388000	West Armurchee Creek near Subligna	34°34'04"	85°09'16"	36.4	Apr. 1, 1939 to June 30, 1940 May 1, 1960 to Apr. 27, 1982
02388300	Heath Creek near Rome	34°21'57"	85°16'17"	14.7	May 9, 1968 to Sept. 30, 1989
02388320	Heath Creek below Rocky Mountain Dam site near Armuchee	34°22'18"	85°15'50"	16.6	Mar. 2, 1982 to Sept. 30, 1990
02388500	Oostanaula River at Rome	34°18'02"	85°08'30"	2,120	Oct. 1, 1939 to Sept. 30, 1990
02389000	Etowah River near Dawsonville	34°22'57"	84°03'21"	107	Mar. 20, 1940 to Sept. 30, 1976
02389300	Shoal Creek near Dawsonville	34°25'13"	84°08'47"	21.7	June 1, 1958 to Sept. 30, 1974

ACTIVE AND DISCONTINUED GAGING STATIONS--Continued

Station no.	Station name	Latitude	Longitude	Drainage area (mi ²)	Period(s) of record	
02389500	East Amicalola Creek at Juno	34°28'28"	84°11'55"	28.5	Apr. 1, 1939	to Sept. 30, 1942
02390000	Amicalola Creek near Dawsonville	34°25'32"	84°12'43"	89.0	Apr. 1, 1939	to May 31, 1952
02390500	Long Swamp Creek near Ballground	34°19'36"	84°20'41"	76.6	Oct. 1, 1918	to Sept. 30, 1921
02391000	Etowah River near Ballground	34°19'05"	84°20'35"	477	Apr. 1, 1907	to Dec. 31, 1915
					Oct. 1, 1918	to Sept. 30, 1921
02391500	Sharp Mountain Creek near Ballground	34°20'15"	84°24'26"	63.8	Apr. 1, 1939	to June 30, 1940
02392000	Etowah River at Canton	34°14'23"	84°29'47"	613	Oct. 1, 1896	to Sept. 30, 1905
					Oct. 1, 1936	to Sept. 30, 1990
02392500	Little River near Roswell	34°07'09"	84°23'18"	60.0	Jan. 1, 1947	to Sept. 30, 1976
02394000	Etowah River at Allatoona Dam at Cartersville	34°09'47"	84°44'28"	1,120	Sept. 1, 1938	to Sept. 30, 1990
02394950	Hills Creek near Taylorsville	34°04'27"	84°57'02"	25.0	May 21, 1959	to Sept. 30, 1974
02395000	Etowah River near Kingston	34°12'24"	84°58'44"	1,630	July 8, 1928	to Dec. 31, 1931
					Oct. 1, 1936	to Sept. 30, 1990
02395120	Two Run Creek near Kingston	34°14'34"	84°53'23"	33.1	May 2, 1980	to Sept. 30, 1990
02395500	Dykes Creek near Rome	34°15'30"	85°05'01"	14.9	Jan. 1, 1939	to Dec. 31, 1942
02396000	Etowah River at Rome	34°15'26"	85°09'30"	1,820	Aug. 1, 1904	to June 30, 1921
					Oct. 1, 1938	to Sept. 30, 1990
02397000	Coosa River near Rome	34°12'01"	85°15'24"	4,040	Oct. 1, 1896	to Dec. 31, 1903
					June 21, 1928	to Dec. 31, 1931
					Mar. 10, 1937	to Dec. 31, 1958
					Oct. 1, 1962	to Sept. 30, 1990
02397410	Cedar Creek at Cedartown	33°59'45"	85°15'53"	66.9	May 4, 1981	to Sept. 30, 1990
02397500	Cedar Creek near Cedartown	34°03'38"	85°18'41"	115	Oct. 1, 1942	to Sept. 30, 1973
02397830	Harrisburg Creek near Hawkins	34°36'02"	85°23'21"	13.3	Oct. 1, 1979	to Sept. 30, 1982
02398000	Chattooga River at Summerville	34°28'03"	85°20'19"	193	Mar. 11, 1937	to Sept. 30, 1990
02411800	Little River near Buchanan	33°47'50"	85°07'05"	20.2	June 1, 1959	to Sept. 30, 1985
02413000	Little Tallapoosa River at Carrollton	33°35'50"	85°04'49"	95.1	Apr. 1, 1937	to Dec. 31, 1955
03544947	Brier Creek near Hiawassee	34°50'05"	83°42'34"	1.67	May 25, 1984	to Sept. 30, 1990
03545000	Hiawassee River at Presley	34°54'17"	83°43'01"	45.5	Dec. 1, 1941	to Mar. 31, 1982
03545500	Hightower Creek near Presley	34°54'59"	83°41'55"	32.4	Dec. 1, 1941	to Sept. 30, 1945
03550500	Nottley River near Blairsville	34°50'28"	83°56'10"	74.8	Jan. 23, 1942	to Mar. 31, 1982
03551000	Coosa Creek near Blairsville	34°51'05"	83°59'35"	21.1	Dec. 12, 1941	to Sept. 30, 1945
03551500	Youngcane Creek near Youngcane	34°52'41"	84°03'57"	27.6	Jan. 21, 1942	to Sept. 30, 1945
03552000	Ivylog Creek near Ivylog	34°56'26"	84°01'27"	16.7	Feb. 14, 1942	to Sept. 30, 1945
03552500	Nottely River near Ivylog	34°55'32"	84°03'39"	191	Oct. 1, 1936	to Jan. 31, 1942
03553500	Nottely River at Nottely Dam near Ivylog	34°57'55"	84°05'25"	215	July 1, 1942	to Sept. 30, 1975
03558000	Toccoa River near Dial	34°47'24"	84°14'24"	177	Jan. 1, 1913	to Sept. 30, 1990
03559000	Toccoa River near Blue Ridge	34°53'14"	84°17'07"	233	Oct. 1, 1898	to Mar. 31, 1903
					Apr. 1, 1913	to Aug. 31, 1974
03560000	Fightingtown Creek at McCaysville	34°58'53"	84°23'12"	70.9	Nov. 1, 1942	to Sept. 30, 1971
03567129	Mill Creek near Cedar Grove	34°42'57"	85°25'59"	5.62	July 24, 1986	to Mar. 31, 1988
03568500	Chattanooga Creek near Flintstone	34°58'20"	85°19'40"	50.6	Jan. 1, 1951	to Sept. 30, 1974
03568782	Hurricane Creek near Rising Fawn	34°45'48"	85°30'12"	4.28	July 25, 1986	to May 31, 1987
03568933	Lookout Creek near New England	34°53'51"	85°27'47"	149	Aug. 30, 1979	to Sept. 30, 1990
03569000	Lookout Creek near Wildwood	34°57'22"	85°24'12"	165	Aug. 7, 1945	to Feb. 28, 1946
					Apr. 1, 1946	to Aug. 15, 1946

GROUND-WATER LEVELS

CHARLTON COUNTY

304942082213801 Local number, 27E004.

LOCATION.--Lat 30°49'43", long 82°21'38", Hydrologic Unit 03110201, end of Georgia Highway 177 east of Stephen C. Foster State Park.

Owner: U.S. Geological Survey, test well OK 9.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 700 ft, cased to 498 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 116 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 4.3 ft above land-surface datum.

REMARKS.--Well drilled in May, 1978 to replace U.S. Geological Survey test well OK 8 (27E002).

PERIOD OF RECORD.--June 14, 1978 to Jan. 26, 1979; Jan. 1, 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 62.30 ft below land-surface datum, May 9, 1984; lowest, 73.80 ft below land surface datum, Sept. 28-29, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71.18	71.16	71.23	71.03	70.26	69.49	69.03	69.64	71.16	72.41	73.16	73.40
2	71.17	71.11	71.17	71.22	70.19	69.31	68.99	69.68	71.24	72.38	73.21	73.44
3	71.21	71.15	71.15	71.15	70.15	69.15	68.92	69.80	71.21	72.48	73.23	73.45
4	71.20	71.21	71.18	71.04	70.02	69.25	68.98	69.83	71.18	72.63	73.25	73.49
5	71.21	71.23	71.06	70.98	70.17	69.31	69.03	69.75	71.22	72.67	73.27	73.48
6	71.23	71.18	71.05	70.90	70.21	69.31	69.04	69.77	71.33	72.64	73.26	73.42
7	71.18	71.10	71.10	70.83	70.11	69.37	69.11	69.94	71.40	72.68	73.24	73.39
8	71.12	71.00	70.93	70.78	70.11	69.39	69.27	70.04	71.46	72.80	73.26	73.42
9	71.24	70.96	70.92	70.89	70.00	69.31	69.31	69.98	71.51	72.87	73.26	73.46
10	71.21	71.13	71.09	70.88	69.80	69.26	69.19	69.89	71.51	72.90	73.25	73.50
11	71.24	71.22	71.09	70.81	69.83	69.24	69.05	70.09	71.51	72.92	73.28	73.54
12	71.26	71.26	70.89	70.73	70.00	69.23	69.23	70.14	71.62	72.95	73.32	73.56
13	71.24	71.26	71.00	70.94	70.04	69.14	69.30	70.12	71.70	72.91	73.30	73.57
14	71.18	71.18	71.19	70.98	69.99	69.02	69.23	70.20	71.70	72.89	73.31	73.55
15	71.16	71.04	71.05	70.92	69.90	69.00	69.09	70.25	71.66	72.99	73.30	73.47
16	71.17	70.97	71.03	70.88	69.85	68.97	69.13	70.30	71.70	73.08	73.29	73.45
17	71.13	71.22	71.12	70.81	69.89	68.90	69.20	70.32	71.82	73.11	73.27	73.61
18	71.04	71.33	71.10	70.73	69.91	69.03	69.34	70.42	71.82	73.10	73.28	73.70
19	71.10	71.35	70.97	70.69	69.77	69.04	69.50	70.46	71.78	73.07	73.27	73.68
20	71.24	71.19	70.98	70.61	69.80	69.07	69.53	70.45	71.85	73.07	73.30	73.65
21	71.27	71.02	71.00	70.51	69.82	69.18	69.44	70.47	71.97	73.05	73.32	73.65
22	71.29	71.00	71.09	70.52	69.63	69.20	69.33	70.45	72.02	73.02	73.29	73.60
23	71.30	71.06	71.14	70.49	69.47	69.18	69.37	70.55	71.99	73.01	73.26	73.60
24	71.27	71.28	71.12	70.39	69.64	69.15	69.46	70.64	72.07	72.99	73.28	73.73
25	71.23	71.23	71.03	70.31	69.78	69.18	69.53	70.72	72.16	73.01	73.34	73.73
26	71.21	71.12	70.96	70.49	69.88	69.16	69.51	70.71	72.22	73.07	73.37	73.70
27	71.19	71.13	71.02	70.55	69.80	69.19	69.47	70.64	72.25	73.05	73.33	73.73
28	71.17	71.11	71.04	70.43	69.62	69.20	69.43	70.63	72.34	73.02	73.29	73.80
29	71.09	71.16	71.06	70.19	---	69.12	69.50	70.71	72.43	73.05	73.27	73.80
30	71.04	71.23	71.02	70.21	---	69.09	69.59	70.89	72.46	73.07	73.25	73.78
31	71.08	---	70.91	70.28	---	69.01	---	71.03	---	73.09	73.32	---
MEAN	71.19	71.15	71.05	70.72	69.92	69.18	69.27	70.27	71.74	72.90	73.28	73.58
WTR YR 1990		MEAN	71.20	HIGH	68.90	LOW	73.80					

GROUND-WATER LEVELS

CHATHAM COUNTY

315950081161201 Local number, 35P094.

LOCATION.--Lat 31°59'50", long 81°16'12", Hydrologic Unit 03060204, Barbour Lathrop Plant Introduction Station, 10 mi south of Savannah, north of the intersection of U.S. Highway 17 and Argyle Rd.

Owner: University of Georgia, formerly owned by U.S. Department of Agriculture.

AQUIFER.--Sands of Holocene and Pleistocene ages.

WELL CHARACTERISTICS.--Bored observation well, diameter 30 in., depth 15 ft, cased to 15 ft, open end.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 18.67 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Iron bracket on recorder shelter, 3.3 ft above land-surface datum.

REMARKS.--Responds quickly to precipitation.

PERIOD OF RECORD.--August 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.05 ft below land-surface datum, Sept. 26, 1953; lowest, 12.28 ft below land-surface datum, November 30, 1972.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.29	3.53	4.37	2.88	3.27	3.15	3.11	4.57	7.22	8.88	9.60	6.20
2	1.03	3.59	4.44	2.98	3.30	3.21	3.17	4.71	7.30	8.94	9.03	6.28
3	1.44	3.66	4.49	3.04	3.34	3.25	3.25	4.86	7.35	9.00	8.93	6.42
4	1.84	3.73	4.55	3.09	3.36	3.34	3.36	4.88	7.41	9.06	8.89	6.58
5	2.12	3.81	4.58	3.14	3.41	3.43	3.48	4.84	7.48	9.10	8.88	6.66
6	2.31	3.87	4.65	3.16	3.46	3.50	3.59	5.01	7.56	9.13	8.90	6.76
7	2.44	3.92	4.70	2.61	3.50	3.57	3.68	5.13	7.63	9.17	8.91	6.90
8	2.54	3.97	4.35	1.18	3.56	3.63	3.69	5.25	7.66	9.22	8.96	7.07
9	2.68	4.02	3.03	1.50	3.59	3.67	3.78	5.18	7.72	9.25	8.98	7.23
10	2.77	4.09	2.81	1.78	3.52	3.72	3.87	5.11	7.79	9.30	8.97	7.35
11	2.86	4.16	2.87	1.99	2.97	3.77	3.58	5.10	7.82	9.34	8.97	7.46
12	2.95	4.23	2.92	2.17	2.98	3.83	3.79	5.28	7.87	9.38	8.99	7.56
13	3.03	4.30	2.86	2.37	3.08	3.87	3.93	5.43	7.95	9.21	9.02	7.64
14	3.10	4.35	2.95	2.48	3.16	3.90	3.98	5.55	8.06	9.19	9.03	7.74
15	3.18	4.36	3.03	2.55	3.23	3.93	4.06	5.63	8.13	9.29	8.62	7.82
16	3.26	4.09	3.09	2.63	3.30	3.94	4.16	5.71	8.17	9.38	8.25	7.92
17	3.33	4.00	3.17	2.70	3.13	3.88	4.25	5.78	8.22	9.45	8.10	8.03
18	3.00	4.04	3.11	2.76	3.13	3.36	4.34	5.91	8.27	9.51	8.00	8.13
19	2.14	4.11	2.76	2.82	2.94	3.34	4.43	5.81	8.31	9.50	7.97	8.21
20	2.36	4.17	2.23	2.88	2.90	3.42	4.46	5.59	8.36	9.48	7.98	8.28
21	2.49	4.24	2.34	2.81	2.96	3.54	4.39	5.94	8.44	9.49	8.05	8.36
22	2.15	4.34	2.49	2.55	2.92	3.62	4.47	6.15	8.49	9.50	8.02	8.43
23	2.61	4.31	2.59	2.69	2.70	3.71	4.52	6.33	8.54	9.54	7.43	8.49
24	2.80	4.14	2.56	2.80	2.61	3.78	4.61	6.36	8.59	9.58	6.68	8.63
25	2.92	4.11	2.53	2.91	2.75	3.88	4.70	6.40	8.66	9.62	6.28	8.76
26	3.04	4.15	2.54	2.93	2.90	3.94	4.76	6.57	8.70	9.64	6.12	8.82
27	3.15	4.20	2.64	3.02	2.99	4.01	4.83	6.72	8.71	9.62	5.74	8.89
28	3.23	4.24	2.73	3.08	3.07	4.07	4.90	6.82	8.73	9.63	5.59	8.96
29	3.32	4.28	2.80	3.11	---	4.03	4.65	6.86	8.77	9.66	5.65	9.02
30	3.39	4.32	2.79	3.17	---	3.55	4.48	6.98	8.83	9.70	5.81	9.07
31	3.46	---	2.84	3.22	---	3.29	---	7.14	---	9.73	6.01	---
MEAN	2.68	4.08	3.22	2.68	3.14	3.65	4.08	5.73	8.09	9.37	7.95	7.79
WTR YR 1990		MEAN	5.21	HIGH	1.03	LOW	9.73					

GROUND-WATER LEVELS

CHATHAM COUNTY

320021081124801 Local number, 36Q020.

LOCATION.--Lat 32°00'18", long 81°12'48", Hydrologic Unit 03060204, 2.7 mi south of intersection of U.S. Highway 17 with Dean Forest Road.

Owner: H. J. Morrison.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unused domestic well, diameter 3 in., depth 365 ft, cased to 330 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 13 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.88 ft above land-surface datum.

REMARKS.--Borehole geophysical survey conducted May 7, 1985. Water levels for periods of missing record, July 13-22, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.66 ft below land-surface datum, June 28, 1958; lowest recorded, 58.56 ft below land-surface datum, July 12, 1990, but may have been lower during the period of estimated water level.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.07	51.73	51.06	52.53	50.19	48.91	49.33	50.62	53.81	57.61	57.97	56.90
2	52.04	51.59	50.99	52.69	50.06	48.74	49.24	50.74	53.81	57.67	57.94	56.89
3	52.09	51.62	50.98	52.59	49.99	48.62	49.15	50.98	53.77	57.89	57.82	56.90
4	52.10	51.66	51.03	52.50	49.81	48.77	49.18	51.09	53.84	58.03	57.77	56.97
5	52.13	51.66	50.95	52.46	49.93	48.87	49.25	51.12	53.97	57.97	57.74	56.88
6	52.15	51.57	50.92	52.35	49.87	48.90	49.31	51.23	54.20	57.92	57.70	56.79
7	52.16	51.49	50.98	52.21	49.68	48.99	49.44	51.43	54.41	58.03	57.62	56.79
8	52.16	51.35	50.81	52.05	49.64	49.02	49.62	51.60	54.68	58.19	57.59	56.85
9	52.32	51.29	50.66	52.13	49.53	48.97	49.72	51.56	54.90	58.26	57.56	56.95
10	52.30	51.40	50.82	52.05	49.34	49.01	49.62	51.45	55.12	58.28	57.44	57.05
11	52.27	51.44	50.84	51.89	49.32	49.10	49.54	51.63	55.25	58.30	57.43	57.14
12	52.29	51.46	50.65	51.78	49.44	49.19	49.73	51.72	55.38	58.56	57.46	57.19
13	52.26	51.47	50.66	51.99	49.45	49.20	49.88	51.68	55.55	58.55	57.38	57.25
14	52.20	51.38	50.89	51.98	49.38	49.18	49.81	51.76	55.67	58.51	57.32	57.25
15	52.21	51.23	50.81	51.87	49.30	49.24	49.69	51.86	55.77	58.52	57.25	57.25
16	52.27	51.13	50.79	51.79	49.20	49.28	49.73	51.93	55.97	58.54	57.19	57.39
17	52.26	51.35	50.91	51.62	49.17	49.27	49.79	52.03	56.11	58.55	57.11	57.69
18	52.18	51.43	50.91	51.46	49.13	49.43	49.95	52.26	56.18	58.54	57.09	57.85
19	52.18	51.43	50.80	51.35	48.94	49.44	50.03	52.48	56.21	58.40	57.08	57.85
20	52.31	51.22	50.82	51.20	49.05	49.44	50.02	52.65	56.41	58.31	57.13	57.90
21	52.33	51.11	50.82	51.00	49.11	49.53	49.96	52.81	56.68	58.29	57.17	57.97
22	52.35	51.09	50.98	50.94	48.92	49.53	49.92	52.78	56.94	58.25	57.13	58.01
23	52.35	51.12	51.18	50.83	48.76	49.50	50.06	52.89	56.91	58.11	57.03	58.18
24	52.27	51.32	51.41	50.65	48.94	49.49	50.21	53.07	56.99	58.05	57.05	58.35
25	52.15	51.22	51.64	50.47	49.12	49.55	50.37	53.29	57.01	58.04	57.06	58.31
26	52.05	51.10	51.95	50.62	49.24	49.56	50.46	53.38	57.03	57.96	57.04	58.28
27	51.99	51.09	52.28	50.64	49.13	49.58	50.54	53.48	57.10	57.89	56.95	58.34
28	51.97	51.00	52.47	50.49	48.98	49.58	50.55	53.57	57.21	57.83	56.86	58.43
29	51.85	51.02	52.55	50.21	---	49.50	50.56	53.58	57.40	57.83	56.81	58.42
30	51.76	51.06	52.53	50.21	---	49.46	50.57	53.69	57.55	57.89	56.80	58.39
31	51.74	---	52.41	50.25	---	49.35	---	53.76	---	57.90	56.84	---
MEAN	52.15	51.33	51.21	51.51	49.38	49.23	49.84	52.20	55.73	58.15	57.30	57.55
WTR YR 1990		MEAN	52.99	HIGH	48.62	LOW	58.56					

GROUND-WATER LEVELS

CHATHAM COUNTY

320122080510204 Local number, 39Q003.

LOCATION.--Lat 32°01'22", long 80°51'02", Hydrologic Unit 03060204, Tybee Island near Fort Screven.

Owner: U.S. Geological Survey, test well 7.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 10 in., depth 600 ft, cased to 129 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 7.0 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of 10 in. casing, 2.0 ft above land-surface datum.

REMARKS.--Borehole geophysical survey conducted Jan. 24, 1962. Water levels for periods of missing record, Oct. 18 to Nov. 17, and Mar. 14 to Apr. 22, were estimated.

PERIOD OF RECORD.--May 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.8 ft below land-surface datum, Apr. 11, 1963; lowest, 36.07 ft below land-surface datum, July 11-12, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.15	31.96	32.03	32.36	31.07	30.26	30.56	31.31	32.57	35.36	35.14	34.03
2	32.22	31.87	32.06	32.34	31.07	30.09	30.49	31.20	32.85	34.96	34.92	34.08
3	32.22	31.86	32.42	32.10	31.10	30.12	30.50	31.29	32.98	34.90	34.86	34.17
4	32.02	31.92	32.26	31.92	31.02	30.14	30.45	31.35	32.96	35.28	34.98	34.04
5	31.93	31.90	32.23	31.86	30.99	30.10	30.52	31.42	32.83	35.47	35.10	33.91
6	32.10	31.97	31.94	31.58	30.86	30.16	30.59	31.30	32.84	35.72	35.08	33.94
7	32.29	32.00	31.95	31.25	30.83	29.90	30.68	31.23	33.19	35.68	35.10	34.08
8	32.11	31.89	31.44	31.29	30.83	29.97	30.66	31.50	33.40	35.75	35.27	34.30
9	31.72	31.85	31.22	31.47	30.75	30.20	30.73	31.39	33.53	35.70	35.15	34.21
10	31.70	31.94	31.51	31.57	30.75	30.46	30.80	31.46	33.71	35.89	34.81	34.15
11	31.79	32.02	31.55	31.40	30.67	30.45	30.89	31.74	33.30	36.07	34.87	34.08
12	31.88	32.11	31.36	31.63	30.86	30.53	30.86	31.73	33.30	36.07	35.02	33.99
13	32.00	32.11	31.65	31.63	30.94	30.58	30.94	31.72	33.39	35.96	34.94	34.03
14	31.97	32.04	31.91	31.56	30.98	30.48	30.78	31.85	33.61	35.87	34.92	33.95
15	32.07	31.97	31.69	31.50	30.86	30.45	30.77	31.77	33.54	35.97	34.87	34.02
16	32.08	32.22	31.76	31.80	30.93	30.49	30.83	31.66	33.29	36.01	34.77	34.00
17	32.12	32.35	31.63	31.67	30.96	30.54	30.86	31.97	33.32	35.99	34.67	33.86
18	32.09	32.42	31.65	31.39	30.47	30.68	30.82	32.05	33.54	35.88	34.50	33.89
19	32.35	32.44	31.41	31.42	30.64	30.60	30.82	32.11	33.62	35.72	34.48	33.98
20	32.53	32.30	31.63	31.22	30.49	30.64	31.03	32.13	33.84	35.63	34.55	34.12
21	32.40	32.39	31.61	31.43	30.30	30.57	30.99	32.19	34.00	35.72	34.59	34.17
22	32.33	31.97	31.78	31.49	30.37	30.63	30.87	32.04	34.19	35.70	34.40	34.32
23	32.14	32.12	31.89	31.26	30.34	30.63	30.82	31.74	34.41	35.47	34.25	34.37
24	32.05	32.07	32.24	31.03	30.96	30.57	31.01	31.99	34.52	35.29	34.29	34.51
25	31.93	32.02	32.73	30.93	30.76	30.58	31.15	32.29	34.47	35.10	34.47	34.66
26	31.80	31.94	32.95	31.61	30.52	30.52	31.28	32.56	34.53	34.97	34.51	34.73
27	31.73	31.93	32.36	31.48	30.46	30.41	31.25	32.65	34.66	34.83	34.32	34.84
28	31.74	31.97	32.45	31.35	30.44	30.43	31.13	32.36	34.82	34.81	34.17	34.73
29	31.58	32.26	32.30	31.08	---	30.57	31.26	32.34	35.05	34.96	34.13	34.69
30	31.59	32.01	32.19	31.22	---	30.63	31.35	32.56	35.33	35.03	34.05	34.74
31	31.78	---	31.99	31.22	---	30.63	---	32.58	---	35.14	33.99	---
MEAN	32.01	32.06	31.93	31.52	30.76	30.42	30.86	31.85	33.72	35.51	34.68	34.22
WTR YR 1990		MEAN	32.47	HIGH	29.90	LOW	36.07					

GROUND-WATER LEVELS

CHATHAM COUNTY

320202080541201 Local number, 38Q002.

LOCATION.--Lat 32°02'02", long 80°54'12", Hydrologic Unit 03060204, Cockspur Island, near pilot house.

Owner: U.S. Department of the Interior, National Park Service.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in., depth 348 ft, cased to 110 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 8.0 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.62 ft above land-surface datum.

REMARKS.--Borehole geophysical survey conducted June 16, 1961. Water levels for period of missing record, May 19 to June 24, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.0 ft below land-surface datum, Mar. 5, 1956; lowest, 40.69 ft below land-surface datum, July 16, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.19	35.90	35.90	36.21	35.07	34.15	34.25	35.18	36.85	39.64	39.82	38.76
2	36.27	35.81	35.91	36.21	35.05	33.99	34.18	35.15	37.13	39.55	39.68	38.75
3	36.25	35.80	36.15	36.18	35.02	33.98	34.19	35.25	37.26	39.50	39.63	38.78
4	36.14	35.85	36.00	36.12	34.89	33.98	34.14	35.30	37.24	39.66	39.64	38.82
5	36.08	35.83	36.02	36.10	34.92	33.99	34.21	35.35	37.11	39.85	39.66	38.76
6	36.20	35.89	35.87	35.94	34.79	34.03	34.28	35.30	37.12	39.92	39.65	38.74
7	36.26	35.92	35.91	35.66	34.71	33.85	34.37	35.31	37.48	39.94	39.58	38.83
8	36.09	35.80	35.48	35.65	34.69	33.93	34.35	35.52	37.69	40.06	39.56	38.95
9	35.91	35.76	35.32	35.78	34.62	34.02	34.42	35.50	37.82	40.23	39.53	38.94
10	35.91	35.85	35.52	35.83	34.52	34.13	34.49	35.52	38.00	40.41	39.44	38.95
11	35.93	35.92	35.53	35.68	34.48	34.11	34.58	35.71	37.59	40.55	39.45	38.97
12	35.98	36.01	35.34	35.84	34.68	34.21	34.55	35.71	37.60	40.68	39.48	38.92
13	36.00	36.00	35.59	35.88	34.76	34.26	34.63	35.74	37.69	40.66	39.47	38.94
14	35.92	35.93	35.78	35.85	34.77	34.16	34.48	35.87	37.90	40.61	39.46	38.90
15	35.98	35.85	35.61	35.81	34.66	34.13	34.47	35.87	37.84	40.68	39.42	38.90
16	36.09	36.10	35.68	35.86	34.71	34.17	34.53	35.89	37.59	40.69	39.32	38.89
17	36.13	36.22	35.62	35.79	34.72	34.22	34.56	36.05	37.63	40.62	39.16	38.90
18	36.10	36.29	35.65	35.70	34.40	34.36	34.52	36.30	37.85	40.59	39.05	38.95
19	36.35	36.27	35.44	35.69	34.49	34.28	34.52	36.36	37.93	40.44	38.98	38.99
20	36.53	36.15	35.50	35.49	34.41	34.32	34.73	36.38	38.15	40.34	39.01	39.09
21	36.39	36.11	35.42	35.56	34.34	34.25	34.69	36.45	38.31	40.31	39.03	39.16
22	36.32	35.90	35.44	35.62	34.32	34.31	34.57	36.30	38.50	40.26	38.90	39.27
23	36.12	36.04	35.44	35.46	34.25	34.32	34.52	36.00	38.73	40.11	38.83	39.34
24	36.03	36.05	35.52	35.26	34.69	34.26	34.71	36.25	38.84	39.99	38.89	39.44
25	35.90	35.97	35.58	35.16	34.58	34.27	34.87	36.55	38.79	39.85	38.99	39.53
26	35.77	35.86	35.89	35.55	34.41	34.21	34.97	36.82	39.06	39.75	38.98	39.59
27	35.70	35.86	35.92	35.42	34.39	34.10	35.00	36.92	39.17	39.59	39.05	39.68
28	35.70	35.89	36.09	35.28	34.32	34.12	34.99	36.63	39.35	39.52	38.97	39.64
29	35.54	35.98	36.05	35.08	---	34.26	35.11	36.61	39.50	39.57	38.92	39.63
30	35.54	35.87	36.03	35.17	---	34.32	35.23	36.83	39.64	39.67	38.85	39.63
31	35.73	---	35.89	35.18	---	34.32	---	36.85	---	39.75	38.73	---
MEAN	36.03	35.96	35.71	35.68	34.63	34.16	34.57	35.98	38.05	40.10	39.26	39.09
WTR YR 1990		MEAN	36.61	HIGH	33.85	LOW	40.69					

GROUND-WATER LEVELS

CHATHAM COUNTY

320530081085001 Local number, 36Q008.

LOCATION.--Lat 32°05'30", long 81°08'50", Hydrologic Unit 03060204, 0.19 mi southeast of intersection of Alfred Street and U.S. Highway 80.

Owner: Layne-Atlantic Co.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unused industrial well, diameter 4 in., depth 406 ft, cased to 250 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 9.91 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of 3 in. casing, 1.0 ft above land-surface datum.

REMARKS.--None.

PERIOD OF RECORD.--February 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 49.17 ft below land-surface datum, July 11, 1954; lowest, 124.40 ft below land-surface datum, August 30, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116.17	111.90	112.61	116.08	103.42	104.88	103.46	110.38	113.91	119.44	121.04	115.49
2	115.78	112.00	111.74	116.60	103.40	104.38	104.75	111.82	114.06	119.48	120.56	115.74
3	116.64	112.00	110.40	116.96	102.21	103.60	104.81	111.73	113.66	120.44	119.89	116.16
4	116.50	111.38	111.02	116.28	100.99	103.68	105.26	110.80	114.20	119.84	119.17	117.20
5	116.45	110.52	110.79	115.04	101.55	105.22	106.14	110.53	115.16	118.65	118.40	118.40
6	116.83	110.30	111.10	114.85	102.56	106.96	105.98	110.10	115.84	118.59	118.47	118.64
7	117.08	110.32	111.70	114.82	102.75	107.25	105.85	110.34	117.00	118.82	118.61	118.81
8	116.72	110.17	111.53	114.46	103.18	106.20	105.18	110.98	117.50	119.00	118.70	118.29
9	116.46	110.10	111.46	113.77	102.82	106.32	104.98	111.21	117.36	119.45	119.00	117.64
10	116.31	110.54	112.07	112.09	101.42	105.83	105.34	110.68	116.82	119.62	118.75	119.16
11	116.56	110.50	112.27	110.33	100.68	105.72	105.36	110.41	117.25	120.60	117.57	120.72
12	116.49	109.94	112.33	108.86	101.72	106.30	105.53	110.45	118.58	120.34	116.82	121.35
13	116.60	110.06	112.07	108.52	102.43	107.81	104.84	109.90	119.30	121.40	116.45	121.43
14	116.36	110.73	113.14	107.99	103.07	108.59	104.93	109.98	119.22	121.68	116.48	121.64
15	116.28	111.11	111.78	107.04	103.88	108.64	103.93	110.98	119.38	121.37	116.98	120.52
16	116.39	111.17	110.79	106.76	103.87	108.75	103.64	111.65	118.61	121.50	117.20	119.66
17	117.18	110.40	111.17	106.36	103.68	107.35	104.85	111.94	117.41	121.04	117.59	120.20
18	117.30	110.26	112.10	105.66	103.25	105.17	105.84	112.21	117.07	121.18	117.31	120.73
19	117.24	110.43	112.97	105.14	103.83	104.70	105.91	112.54	117.62	121.32	116.83	120.32
20	116.70	111.34	112.78	104.25	105.06	104.38	106.28	112.68	118.19	121.90	116.57	120.43
21	115.72	112.08	112.90	103.19	105.20	104.95	106.20	113.12	118.40	121.18	117.08	120.44
22	114.82	111.15	113.69	103.77	105.17	104.91	105.80	113.18	118.80	120.30	118.00	119.26
23	114.18	112.28	114.93	105.01	104.40	105.00	106.92	113.46	118.75	120.40	118.20	119.02
24	113.86	112.26	116.28	105.17	103.75	104.30	108.98	113.16	118.10	121.53	118.59	119.08
25	113.54	112.14	117.84	105.18	103.42	103.67	109.85	113.00	117.85	122.11	117.43	119.24
26	112.72	111.61	119.05	105.94	103.35	103.62	110.46	112.72	119.88	122.02	116.71	119.05
27	113.10	111.59	118.20	105.06	103.81	104.25	109.95	112.04	120.80	121.34	116.40	119.84
28	113.01	112.33	118.88	103.82	104.50	104.97	109.25	111.50	120.46	120.63	116.86	119.36
29	112.14	111.77	118.99	103.67	---	105.08	107.84	110.94	120.97	119.99	116.14	118.56
30	111.70	112.37	118.53	103.14	---	104.14	108.80	112.06	120.78	120.06	113.82	118.12
31	111.85	---	116.97	102.35	---	103.54	---	113.08	---	120.66	113.97	---
MEAN	115.44	111.16	113.62	108.65	103.19	105.49	106.23	111.60	117.76	120.51	117.60	119.15
WTR YR 1990		MEAN	112.60	HIGH	100.68	LOW	122.11					

GROUND-WATER LEVELS

COOK COUNTY

310813083260301 Local number, 18H016.

LOCATION.--Lat 31°08'13", long 83°26'03", Hydrologic Unit 03110203, on West Second Street near intersection of Georgia Highways 76 and 37.

Owner: U.S. Geological Survey, Adel test well.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in., depth 865 ft, cased to 207 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 241 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 2.66 ft above land-surface datum.

REMARKS.--Well pumped July 19, 1978; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted Oct. 24, 1974.

PERIOD OF RECORD.--December 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 163.34 ft below land-surface datum, July 5, 1966; lowest, 177.27 ft below land-surface datum, Sept. 28, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174.45	174.64	174.51	174.30	174.02	173.93	173.44	174.10	175.52	176.33	176.49	176.72
2	174.54	174.59	174.34	174.53	174.02	173.68	173.40	174.37	175.54	176.31	176.58	176.74
3	174.61	174.61	174.26	174.50	173.91	173.47	173.35	174.47	175.43	176.33	176.46	176.81
4	174.61	174.58	174.47	174.41	173.78	173.63	173.42	174.61	175.51	176.31	176.41	177.00
5	174.57	174.58	174.33	174.26	173.95	173.68	173.47	174.42	175.48	176.40	176.43	177.10
6	174.59	174.64	174.29	174.16	174.02	173.79	173.51	174.13	175.51	176.42	176.48	177.09
7	174.48	174.64	174.30	174.05	173.94	173.98	173.68	174.38	175.59	176.51	176.41	177.11
8	174.40	174.45	174.23	174.02	174.03	174.09	173.71	174.41	175.69	176.54	176.40	177.08
9	174.60	174.38	174.17	174.14	173.87	174.02	173.83	174.23	175.51	176.70	176.37	177.08
10	174.61	174.53	174.30	174.26	173.56	173.98	173.72	174.04	175.38	176.78	176.38	177.06
11	174.66	174.52	174.38	174.20	173.64	173.92	173.62	174.28	175.52	176.57	176.29	176.95
12	174.76	174.51	174.18	174.12	173.82	173.90	173.74	174.28	175.72	176.53	176.38	176.93
13	174.72	174.58	174.34	174.35	173.89	173.87	173.72	174.22	175.88	176.42	176.57	176.94
14	174.66	174.55	174.48	174.44	173.89	173.82	173.54	174.44	175.99	176.13	176.53	176.86
15	174.53	174.38	174.27	174.38	173.88	173.77	173.43	174.65	175.99	176.14	176.57	176.62
16	174.64	174.33	174.30	174.36	173.84	173.76	173.56	174.89	175.99	176.34	176.65	176.47
17	174.61	174.57	174.43	174.30	173.92	173.59	173.65	174.89	175.88	176.38	176.66	176.78
18	174.52	174.62	174.46	174.27	173.87	173.66	173.90	174.97	175.90	176.31	176.57	176.95
19	174.63	174.56	174.32	174.21	173.73	173.69	174.09	174.99	175.91	176.22	176.49	176.94
20	174.70	174.49	174.33	174.04	173.82	173.76	174.07	174.93	176.00	176.22	176.66	176.95
21	174.68	174.32	174.42	173.94	173.90	173.86	173.86	174.96	176.21	176.11	176.85	177.04
22	174.63	174.24	174.54	174.02	173.74	173.91	173.64	174.81	176.24	175.96	176.96	176.96
23	174.77	174.17	174.52	174.00	173.62	173.90	173.74	174.83	175.86	176.06	176.82	176.88
24	174.73	174.41	174.63	173.90	173.83	173.90	173.83	174.92	175.78	176.06	176.80	177.11
25	174.71	174.33	174.59	173.86	174.09	173.85	173.91	175.02	175.92	176.06	176.86	177.12
26	174.67	174.20	174.40	174.17	174.32	173.80	173.96	175.00	176.06	176.20	176.87	177.09
27	174.64	174.32	174.51	174.14	174.24	173.85	173.98	174.85	176.18	176.28	176.85	177.16
28	174.57	174.36	174.54	174.09	174.04	173.83	173.70	174.76	176.32	176.25	176.81	177.27
29	174.44	174.45	174.41	173.82	---	173.74	173.95	174.85	176.41	176.16	176.78	177.17
30	174.43	174.55	174.36	173.89	---	173.65	173.93	175.08	176.46	176.34	176.73	177.06
31	174.51	---	174.16	174.05	---	173.55	---	175.32	---	176.40	176.68	---
MEAN	174.60	174.47	174.38	174.17	173.90	173.80	173.71	174.65	175.85	176.32	176.61	176.97
WTR YR 1990		MEAN	174.96	HIGH	173.35	LOW	177.27					

GROUND-WATER LEVELS

DECATUR COUNTY

305736084355801 Local number, 09F520.

LOCATION.--Lat 30°57'42", long 84°35'46", Hydrologic Unit 03130008, U.S. 27 north of Bainbridge, right on dirt road near John Deere tractor dealership.

Owner: Graham Bolton.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Unused private irrigation well, diameter 12 in., depth 251 ft, cased to 130 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 128 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

Measuring point: Floor of recorder shelter, 3.50 ft above land-surface datum.

REMARKS.--This well is about 15 ft from pumped well.

PERIOD OF RECORD.--June 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.86 ft below land-surface datum, Apr. 15, 1984; lowest, 54.89 ft below land-surface datum, Sept. 22, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46.59	46.98	47.27	46.53	43.12	42.33	41.54	43.20	45.04	46.56	49.81	48.54
2	46.62	47.01	47.26	46.39	43.09	42.24	41.55	43.30	45.10	50.15	54.20	48.54
3	46.63	47.04	47.28	46.26	43.05	42.25	41.58	43.59	45.10	53.08	54.27	48.55
4	46.62	47.07	47.27	46.13	43.02	42.26	41.62	43.71	45.09	50.15	48.48	48.63
5	46.63	47.10	47.27	46.01	43.06	42.27	41.67	43.71	45.12	46.83	48.03	49.86
6	46.62	47.12	47.29	45.91	43.06	42.28	41.70	43.61	45.18	46.84	47.99	52.53
7	46.59	47.14	47.31	45.75	43.06	42.31	41.81	43.66	45.26	46.90	47.98	52.58
8	46.56	47.15	47.28	45.58	43.07	42.31	41.87	43.74	45.37	46.96	47.99	51.02
9	46.53	47.20	47.33	45.22	43.05	42.31	41.92	43.77	45.37	48.85	49.94	48.89
10	46.48	47.19	47.32	44.90	43.04	42.33	41.92	43.79	45.40	51.67	54.37	48.89
11	46.46	47.17	47.29	44.57	43.13	42.33	41.98	43.85	45.46	53.45	53.33	48.89
12	46.47	47.14	47.21	44.36	43.19	42.35	42.05	43.89	45.55	48.16	48.50	48.90
13	46.48	47.12	47.25	44.20	43.20	42.35	42.10	43.96	45.63	47.18	48.45	48.92
14	46.50	47.09	47.18	44.00	43.20	42.35	42.11	44.00	47.65	47.18	48.41	48.92
15	46.54	47.04	47.05	43.85	43.18	42.38	42.14	44.05	51.06	47.22	48.40	48.91
16	46.58	47.08	47.01	43.74	43.20	42.39	42.20	44.14	49.54	47.24	48.42	48.92
17	46.61	47.12	46.93	43.64	43.26	42.44	42.26	44.21	46.04	47.27	49.60	48.95
18	46.64	47.14	46.86	43.58	43.22	42.50	42.36	44.25	45.98	47.34	54.57	48.98
19	46.69	47.15	46.82	43.52	43.15	42.49	42.43	44.26	45.97	47.35	53.51	49.00
20	46.71	47.12	46.80	43.47	43.14	42.49	42.49	44.29	46.00	47.34	48.59	49.02
21	46.73	47.11	46.76	43.44	43.07	42.45	42.54	44.32	46.05	47.34	50.43	50.12
22	46.74	47.11	46.74	43.42	42.95	42.35	42.59	44.36	46.08	47.34	50.55	54.89
23	46.76	47.20	46.70	43.38	42.88	42.24	42.66	44.42	46.08	47.35	48.59	53.53
24	46.78	47.22	46.64	43.33	42.83	42.12	42.76	44.51	46.11	47.38	49.35	49.01
25	46.80	47.19	46.58	43.30	42.76	42.00	42.82	44.58	46.15	47.70	48.56	49.00
26	46.81	47.19	46.56	43.34	42.65	41.85	42.89	44.63	46.18	49.72	48.54	49.01
27	46.84	47.21	46.55	43.28	42.53	41.71	42.94	44.65	46.25	53.43	48.52	49.03
28	46.85	47.23	46.55	43.22	42.41	41.58	42.98	44.71	46.37	51.24	48.51	49.05
29	46.87	47.26	46.54	43.16	---	41.51	43.04	44.76	46.46	47.74	48.51	49.05
30	46.89	47.26	46.53	43.16	---	41.50	43.12	44.87	46.54	47.62	48.52	49.04
31	46.94	---	46.49	43.16	---	41.51	---	44.98	---	47.86	48.53	---
MEAN	46.66	47.14	46.97	44.32	43.02	42.19	42.25	44.12	46.11	48.47	49.79	49.64
WTR YR 1990		MEAN	45.91	HIGH	41.50	LOW	54.89					

GROUND-WATER LEVELS

DOUGHERTY COUNTY

313532084203501 Local number, 11L002.

LOCATION.--Lat 31°35'32", long 84°20'35", Hydrologic Unit 03130008, Tallassee Plantation, 10.4 mi west of Albany.

Owner: Georgia Department of Natural Resources.

AQUIFER.--Clayton Limestone.

WELL CHARACTERISTICS.--Drilled observation well, diameter 3 in., depth 656 ft, cased to 542 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 222 ft above National Geodetic Datum of 1929 (from topographic map).

Measuring point: Floor of recorder shelter, 3.02 ft above land-surface datum.

REMARKS.--Borehole geophysical survey conducted June 3, 1975. Well pumped and redeveloped, Aug. 14, 1988. Water levels for period of missing record, May 6-28, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 58.90 ft below land-surface datum, Apr. 29, 1975; lowest, 152.61 ft below land-surface datum, Aug. 23, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116.97	110.11	107.77	103.58	99.53	97.28	97.08	98.74	107.92	125.70	133.38	143.25
2	116.72	109.92	107.50	103.63	99.42	97.03	97.00	98.94	108.72	126.47	134.01	143.07
3	116.43	109.89	107.35	103.51	99.35	96.88	96.95	99.25	109.61	127.44	134.51	142.84
4	116.08	109.84	107.14	103.30	99.18	96.93	96.96	99.72	110.42	128.45	134.98	142.65
5	115.81	109.74	106.64	103.04	99.29	96.89	96.88	99.99	111.13	129.19	135.59	142.60
6	115.49	109.55	106.33	102.86	99.24	96.83	96.76	100.26	111.63	129.55	136.15	142.60
7	115.04	109.30	106.19	102.72	99.12	96.83	96.90	100.52	112.05	129.90	136.83	142.64
8	114.66	108.99	106.04	102.67	99.04	96.83	97.06	100.79	112.47	130.22	137.57	142.70
9	114.43	108.83	106.18	102.70	98.74	96.66	97.09	101.06	112.99	130.40	138.38	142.73
10	114.17	108.94	106.46	102.58	98.38	96.54	96.93	101.33	113.57	130.48	139.00	142.64
11	114.05	108.98	106.47	102.31	98.25	96.48	96.79	101.60	114.05	130.49	139.70	142.51
12	113.92	108.94	106.14	102.13	98.15	96.44	96.86	101.86	114.32	130.22	140.48	142.36
13	113.76	108.97	106.11	102.28	98.00	96.37	96.78	102.13	114.48	129.96	141.13	142.12
14	113.56	109.04	106.09	102.18	97.91	96.28	96.52	102.40	114.52	130.00	141.74	141.82
15	113.39	109.00	105.78	101.98	97.79	96.29	96.25	102.67	114.55	130.21	142.28	141.60
16	113.25	108.97	105.70	101.72	97.74	96.34	96.15	102.94	114.93	130.28	143.03	141.40
17	113.06	109.13	105.60	101.45	97.74	96.29	96.14	103.20	115.62	130.14	143.73	141.31
18	112.79	109.13	105.37	101.30	97.74	96.32	96.26	103.47	116.13	130.11	144.21	141.10
19	112.54	109.08	105.08	101.16	97.74	96.31	96.38	103.74	116.50	130.28	144.56	140.73
20	112.34	108.81	104.94	101.01	97.74	96.42	96.38	104.01	116.96	130.42	144.85	140.34
21	112.18	108.53	104.82	100.79	97.74	96.52	96.30	104.28	117.53	130.52	144.99	139.99
22	111.98	108.34	104.76	100.69	97.46	96.50	96.20	104.54	118.01	130.48	144.98	139.65
23	111.63	108.36	104.66	100.46	97.30	96.47	96.27	104.81	118.67	130.44	144.83	139.47
24	111.29	108.44	104.56	100.16	97.48	96.44	96.46	105.08	119.65	130.43	144.58	139.40
25	111.13	108.31	104.37	99.95	97.66	96.58	96.67	105.35	120.58	130.46	144.44	139.22
26	111.03	108.26	104.11	100.12	97.67	96.68	96.78	105.62	121.26	130.60	144.38	139.02
27	110.92	108.35	103.91	100.19	97.55	96.86	96.93	105.88	121.99	130.88	144.17	138.90
28	110.76	108.26	103.79	100.11	97.39	96.97	97.27	106.15	122.91	131.32	143.87	138.80
29	110.56	108.21	103.75	99.84	---	96.98	97.96	106.42	123.89	131.76	143.61	138.67
30	110.36	108.02	103.71	99.77	---	97.02	98.47	106.84	124.87	132.14	143.45	138.42
31	110.23	---	103.51	99.66	---	97.09	---	107.30	---	132.71	143.31	---
MEAN	113.24	108.94	105.51	101.61	98.23	96.66	96.78	102.93	115.73	130.05	141.06	141.15
WTR YR 1990		MEAN	112.74	HIGH	96.14	LOW	144.99					

GROUND-WATER LEVELS

DOUGHERTY COUNTY

313554084062501 Local number, 13L002.

LOCATION.--Lat 31°35'54", long 84°06'25", Hydrologic Unit 03130008, Malone and Gardner Avenue near main entrance to Turner Field, Albany.

Owner: City of Albany, Turner City.

AQUIFER.--Clayton Limestone.

WELL CHARACTERISTICS.--Drilled unused supply well, diameter 12 in. and 8 in., depth 760 ft, cased to 713 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 212.84 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.2 ft above land-surface datum.

REMARKS.--Well pumped and sounded to a depth of 760 ft, June 21, 1978: water-quality sample collected at conclusion of pumping.

Borehole geophysical survey conducted Mar. 17, 1977. Water level for period of missing record, June 16-20, were estimated.

PERIOD OF RECORD.--December 1957 to December 1959, January 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 38.19 ft below land-surface datum, Apr. 1, 1959; lowest, 160.88 ft below land-surface datum, July 26, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135.14	131.78	125.65	125.57	121.82	117.76	120.45	125.44	130.12	141.78	146.68	153.11
2	134.56	132.01	125.60	125.63	123.38	120.18	119.91	126.18	131.19	142.42	147.02	152.46
3	133.87	131.69	125.55	125.42	122.50	121.59	121.31	125.46	131.30	143.69	147.45	152.19
4	133.41	131.06	125.21	125.65	122.73	121.85	120.69	125.87	130.77	144.55	147.86	152.13
5	133.50	131.06	124.82	126.11	122.49	119.10	120.31	125.70	129.84	144.56	147.58	151.42
6	133.63	131.17	124.80	124.47	121.62	117.74	120.71	125.19	129.09	143.88	147.11	151.84
7	132.97	131.68	124.88	123.83	121.42	118.24	121.65	125.43	131.06	143.99	146.74	152.41
8	132.25	131.92	125.01	123.38	121.76	117.94	119.83	126.11	131.59	144.14	147.14	152.53
9	132.42	132.77	127.74	123.18	121.96	117.10	118.86	125.62	132.51	144.52	147.51	152.52
10	132.35	133.11	128.65	123.40	121.62	117.21	119.64	125.18	132.82	144.51	147.79	153.69
11	132.56	133.02	127.05	124.58	121.16	118.25	119.82	125.51	132.51	144.79	147.32	153.80
12	132.75	132.74	125.58	124.90	120.84	117.76	118.67	124.68	132.15	145.01	146.57	153.38
13	132.22	132.03	125.62	124.28	120.78	119.82	118.35	124.50	133.08	143.93	146.92	153.92
14	131.72	130.41	126.07	124.37	122.22	118.68	118.50	124.08	133.60	143.52	148.01	154.00
15	132.09	129.61	125.44	125.25	122.69	119.92	118.19	124.81	134.18	144.43	147.72	152.51
16	132.03	129.42	125.32	126.40	123.06	120.31	119.22	125.52	133.46	144.44	148.86	152.59
17	132.76	130.88	125.15	127.19	123.58	120.78	119.57	125.64	133.87	145.29	149.51	152.92
18	132.74	132.22	125.33	127.56	122.14	120.55	120.92	126.40	133.70	145.60	149.23	152.98
19	133.34	131.35	125.34	127.89	120.72	120.20	121.92	127.53	133.19	146.12	149.49	152.84
20	133.94	131.94	124.95	128.16	121.29	120.57	122.37	127.07	133.43	146.42	149.88	152.80
21	133.34	131.18	125.41	126.40	119.97	121.24	122.47	127.80	134.36	146.58	150.33	152.79
22	131.31	130.70	126.20	123.98	118.99	120.54	122.23	127.02	135.80	145.79	150.20	152.74
23	130.52	129.37	128.00	125.71	118.42	120.84	122.09	127.38	136.88	146.02	149.02	152.80
24	130.36	128.28	129.05	124.90	118.38	119.88	122.65	127.51	137.67	145.60	150.74	152.93
25	131.37	128.74	129.55	122.94	118.87	120.01	123.46	127.52	138.27	145.59	150.71	152.91
26	132.13	128.07	130.15	123.59	118.15	120.28	124.38	128.91	138.29	145.56	151.49	152.98
27	132.07	126.37	130.82	122.24	117.56	120.33	125.08	129.64	139.07	145.64	151.21	153.26
28	131.12	125.64	131.27	123.10	117.92	119.25	125.66	129.25	139.73	145.83	151.32	153.59
29	131.55	125.59	129.64	123.44	---	120.03	125.24	129.66	140.53	145.99	151.28	153.82
30	131.13	125.60	126.99	122.47	---	120.15	124.62	130.16	141.23	146.06	152.29	152.89
31	130.88	---	125.98	122.04	---	120.11	---	129.38	---	146.39	152.74	---
MEAN	132.45	130.38	126.67	124.78	121.00	119.62	121.29	126.65	134.18	144.92	148.96	152.89
WTR YR 1990		MEAN	132.04	HIGH	117.10	LOW	154.00					

GROUND-WATER LEVELS

DOUGHERTY COUNTY

313748084002901 Local number, 13L003.

LOCATION.--Lat 31°33'13", long 84°00'21", Hydrologic Unit 03130008, near northeast corner of Marine Corps Supply Center, Acree, Ga.

Owner: City of Albany and Dougherty County.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unused supply well, diameter 6 in., depth 259 ft, cased to 206 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 225 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 4.10 ft above land-surface datum.

REMARKS.--Well pumped and sounded June 21, 1978; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted Mar. 17, 1977.

PERIOD OF RECORD.--January 1963 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.41 ft below land-surface datum, Apr. 2, 1965; lowest, 44.89 ft below land-surface datum, Dec. 13, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38.24	39.11	40.02	39.07	32.63	30.73	30.78	33.11	35.37	38.05	39.46	40.88
2	38.21	39.13	40.04	38.76	32.49	30.65	30.81	33.19	35.47	38.18	39.56	40.85
3	38.15	39.20	40.10	38.23	32.42	30.73	30.88	33.40	35.54	38.28	39.46	40.76
4	38.10	39.25	40.10	37.96	32.43	30.97	31.02	33.51	35.50	38.28	39.56	40.83
5	38.05	39.29	40.08	37.81	32.78	31.07	31.15	33.54	35.56	38.15	39.62	40.94
6	37.89	39.30	40.16	37.65	32.84	31.14	31.24	33.61	35.64	38.09	39.39	40.99
7	37.70	39.30	40.22	36.90	32.80	31.26	31.42	33.73	35.72	38.22	39.32	41.03
8	37.58	39.28	40.18	35.28	32.86	31.32	31.56	33.93	35.83	38.36	39.35	41.05
9	37.56	39.32	40.16	34.64	32.79	31.30	31.62	33.86	35.86	38.29	39.38	41.04
10	37.60	39.38	40.21	34.37	32.71	31.36	31.54	33.81	35.89	38.26	39.44	41.07
11	37.80	39.40	39.80	34.01	32.85	31.43	31.54	33.99	35.97	38.25	39.54	41.18
12	37.97	39.44	39.82	33.82	32.97	31.53	31.74	33.98	36.13	38.26	39.69	41.21
13	38.09	39.43	39.76	33.88	32.92	31.56	31.82	34.02	36.29	38.23	39.79	41.22
14	38.13	39.42	39.48	33.67	32.82	31.58	31.77	34.12	36.32	38.28	39.84	41.23
15	38.20	39.42	39.27	33.55	32.74	31.66	31.75	34.24	36.49	38.42	39.97	41.18
16	38.28	39.53	39.31	33.54	32.70	31.66	31.87	34.35	36.61	38.54	40.02	41.20
17	38.35	39.66	39.35	33.50	32.64	31.65	31.96	34.43	36.69	38.70	40.10	41.29
18	38.38	39.69	39.50	33.47	32.48	31.58	32.15	34.56	36.70	38.75	40.28	41.30
19	38.52	39.72	39.40	33.44	32.22	31.31	32.29	34.70	36.74	38.68	40.17	41.33
20	38.60	39.63	39.42	33.39	32.14	31.07	32.32	34.70	36.93	38.64	40.13	41.38
21	38.64	39.65	39.40	33.33	31.99	30.60	32.31	34.74	37.21	38.67	40.16	41.46
22	38.69	39.69	39.27	33.35	31.52	30.07	32.34	34.73	37.28	38.65	40.21	41.49
23	38.73	39.84	39.21	33.23	31.15	29.62	32.47	34.80	37.23	38.76	40.25	41.55
24	38.73	39.88	39.15	33.05	31.17	29.31	32.62	34.85	37.28	38.78	40.36	41.66
25	38.77	39.85	39.12	32.95	31.13	29.34	32.73	34.90	37.36	38.81	40.45	41.75
26	38.82	39.87	39.21	33.16	30.95	29.49	32.76	34.94	37.49	38.87	40.47	41.74
27	38.86	39.90	39.29	33.03	30.75	29.80	32.79	34.99	37.62	38.91	40.48	41.70
28	38.89	39.91	39.38	32.86	30.63	30.13	32.78	34.96	37.73	38.91	40.62	41.72
29	38.92	40.04	39.40	32.65	---	30.34	32.90	35.05	37.88	39.07	40.75	41.72
30	38.94	40.01	39.37	32.73	---	30.50	33.01	35.16	38.00	39.26	40.74	41.70
31	39.03	---	39.27	32.75	---	30.62	---	35.25	---	39.42	40.77	---
MEAN	38.34	39.55	39.63	34.52	32.23	30.82	31.93	34.30	36.54	38.55	39.98	41.28
WTR YR 1990		MEAN	36.50	HIGH	29.31	LOW	41.75					

GROUND-WATER LEVELS

FULTON COUNTY

334207084254801 Local number, 10DD02.

LOCATION.--Lat 33°42'07", long 84°25'48", Hydrologic Unit 03130002, 0.25 mi south of main entrance, 260 ft west of Roosevelt Highway.

Owner: U.S. Army, Ft. McPherson.

AQUIFER.--Biotite gneiss.

WELL CHARACTERISTICS.--Drilled unused supply well, diameter 12 in., depth 338 ft, cased to 41 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface datum is 1,013 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

Measuring point: At land-surface datum.

REMARKS.--Well pumped and sounded February 14, 1976, to a depth of 338 ft. Borehole geophysical survey conducted November 19, 1974.

PERIOD OF RECORD.--November 1973 to current year. Water levels for period of missing record, Dec. 22-26, were estimated.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.10 ft below land-surface datum, March 30, 1980; lowest, 10.95 ft below land-surface datum, Sept. 2, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.83	7.69	8.15	7.39	6.52	5.87	5.38	5.80	6.37	7.37	8.00	8.45
2	7.53	7.70	8.13	7.56	6.48	5.71	5.36	5.85	6.40	7.37	8.03	8.40
3	7.66	7.77	8.14	7.55	6.48	5.52	5.40	5.90	6.34	7.47	8.01	8.39
4	7.77	7.83	8.14	7.49	6.39	5.63	5.42	5.89	6.30	7.59	8.03	8.44
5	7.85	7.87	8.07	7.42	6.44	5.75	5.44	5.82	6.36	7.60	8.05	8.42
6	7.91	7.87	8.09	7.19	6.47	5.81	5.49	5.86	6.47	7.60	8.03	8.38
7	7.93	7.85	8.17	6.93	6.40	5.87	5.58	5.96	6.58	7.63	8.04	8.37
8	7.97	7.79	7.91	6.80	6.42	5.87	5.66	6.02	6.64	7.71	8.04	8.43
9	8.05	8.02	7.57	6.83	6.30	5.71	5.66	5.90	6.65	7.77	7.98	8.48
10	8.07	8.05	7.55	6.92	5.92	5.60	5.53	5.77	6.60	7.76	7.93	8.51
11	8.07	8.14	7.55	6.90	5.88	5.61	5.45	5.92	6.63	7.77	7.93	8.52
12	7.62	8.19	7.45	6.97	6.06	5.65	5.55	5.97	6.74	7.79	7.97	8.54
13	7.23	8.21	7.33	7.13	6.16	5.60	5.62	5.94	6.80	7.65	8.01	8.50
14	7.13	8.19	7.39	7.15	6.17	5.57	5.53	5.98	6.80	7.55	8.02	8.26
15	7.12	8.07	7.33	7.13	6.13	5.59	5.46	6.00	6.76	7.59	8.05	8.05
16	7.14	7.98	7.45	7.13	5.96	5.39	5.49	6.04	6.74	7.70	8.11	8.10
17	7.13	8.07	7.48	7.11	5.86	5.00	5.54	6.05	6.82	7.76	8.21	8.27
18	7.14	8.17	7.48	7.05	5.93	4.93	5.68	6.11	6.86	7.75	8.29	8.36
19	7.18	8.23	7.41	6.99	5.70	5.15	5.80	6.12	6.88	7.73	8.31	8.31
20	7.24	8.13	7.37	6.93	5.62	5.30	5.78	6.08	6.94	7.64	8.35	8.28
21	7.27	8.07	7.41	6.65	5.75	5.37	5.70	6.10	7.04	7.65	8.37	8.29
22	7.33	8.07	7.42	6.56	5.68	5.37	5.60	6.12	7.06	7.65	8.37	8.28
23	7.39	8.07	7.43	6.63	5.68	5.36	5.62	6.20	6.96	7.66	8.37	8.34
24	7.41	8.15	7.44	6.61	5.86	5.36	5.68	6.24	7.00	7.67	8.38	8.40
25	7.42	8.15	7.45	6.25	6.00	5.41	5.76	6.26	7.10	7.71	8.45	8.38
26	7.47	8.07	7.45	6.17	6.02	5.43	5.73	6.24	7.23	7.77	8.49	8.37
27	7.51	8.07	7.48	6.34	5.98	5.44	5.72	6.19	7.25	7.78	8.43	8.39
28	7.55	8.08	7.47	6.39	5.88	5.44	5.62	6.09	7.29	7.78	8.45	8.47
29	7.55	8.17	7.56	6.32	—	5.44	5.66	6.09	7.35	7.82	8.47	8.50
30	7.55	8.19	7.53	6.39	—	5.36	5.72	6.20	7.39	7.85	8.40	8.50
31	7.59	—	7.45	6.49	—	5.36	—	6.30	—	7.91	8.42	—
MEAN	7.54	8.03	7.62	6.88	6.08	5.50	5.59	6.03	6.81	7.68	8.19	8.38
WTR YR 1990		MEAN	7.03	HIGH	4.93	LOW	8.54					

GROUND-WATER LEVELS

GLYNN COUNTY

311007081301702 Local number, 33H133.

LOCATION.--Lat 31°10'07", long 81°30'17", Hydrologic Unit 03070203, near the intersection of Newcastle and Oak Streets to the south of the cemetery in Brunswick.

Owner: U.S. Geological Survey, test well 6.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 790 ft, cased to 520 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 7 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 5.1 ft above land-surface datum.

REMARKS.--Well pumped semi-annually; water-quality samples collected at conclusion of pumping. Borehole geophysical survey conducted Sept. 26, 1977. Water levels for period of missing record Aug. 25 to Sept. 25, were estimated.

PERIOD OF RECORD.--January 1963 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.07 ft above land-surface datum, Dec. 26, 1965; lowest, 21.87 ft below land-surface datum, July 22, 1977.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.13	15.52	13.85	14.55	15.40	13.79	15.30	16.09	17.14	19.42	19.16	19.60
2	11.28	14.91	14.01	14.64	15.39	13.29	14.55	15.52	17.12	19.81	19.22	19.48
3	10.98	13.56	15.82	14.60	15.31	13.49	14.21	16.45	17.87	20.45	19.06	19.28
4	10.35	13.72	15.97	12.80	14.57	12.22	14.35	16.61	18.23	20.52	18.93	19.58
5	10.77	13.89	15.93	13.71	14.50	12.00	15.42	16.18	18.28	20.55	18.85	19.60
6	12.10	14.96	16.53	13.44	14.47	11.94	14.85	15.06	18.83	21.42	18.90	19.51
7	13.59	13.95	16.87	13.10	14.80	12.17	14.93	11.84	17.42	21.73	19.68	19.47
8	12.31	14.41	14.98	13.00	13.94	12.26	14.91	5.82	18.22	21.55	19.99	19.23
9	13.68	14.46	14.22	13.41	13.49	11.69	14.49	1.47	18.72	20.69	20.30	19.21
10	15.08	15.75	13.44	14.19	14.40	11.52	14.26	3.35	17.74	20.43	20.12	19.57
11	15.47	15.78	13.91	14.72	14.35	12.40	13.59	8.30	18.34	19.38	20.17	19.85
12	14.69	15.96	14.23	15.18	14.74	12.61	14.21	11.69	18.45	19.04	20.27	19.65
13	15.51	14.98	14.67	15.99	14.00	13.04	14.80	13.55	18.78	19.59	20.26	20.87
14	15.92	13.93	14.25	16.12	14.58	15.38	15.88	14.57	19.22	20.23	19.17	20.97
15	15.87	14.92	15.03	15.93	14.25	14.36	15.85	15.22	19.47	19.82	18.56	20.38
16	15.50	15.03	15.39	16.24	14.17	12.75	15.95	15.18	19.39	19.60	19.48	20.00
17	15.25	14.63	14.42	16.07	14.62	12.66	16.28	15.21	19.34	18.07	20.03	19.97
18	15.59	14.53	14.65	14.41	13.75	12.28	15.58	15.43	19.45	18.77	19.93	20.51
19	14.01	13.80	14.79	14.72	13.69	12.43	15.53	16.00	19.76	18.13	20.09	20.41
20	14.76	13.98	15.22	15.19	14.25	13.02	16.01	16.32	20.67	18.33	20.00	20.52
21	14.99	14.69	14.13	14.99	13.36	12.92	15.67	16.95	20.94	19.57	20.13	20.19
22	15.41	14.57	14.51	15.42	13.14	12.76	15.64	16.72	19.93	20.32	19.93	19.48
23	15.82	13.99	14.64	15.44	13.41	12.50	16.20	16.39	20.05	20.24	19.58	19.09
24	15.77	14.46	15.37	15.42	13.55	13.04	16.66	15.60	20.03	19.98	19.33	19.63
25	15.89	15.75	16.33	15.12	13.68	13.05	16.71	16.25	20.41	19.73	19.44	19.72
26	14.33	16.38	14.89	15.84	14.23	13.46	15.74	17.19	19.90	19.54	19.22	18.96
27	15.07	16.04	14.77	15.87	13.74	15.61	16.16	17.54	19.27	19.60	19.22	18.97
28	13.74	15.38	14.79	15.44	13.77	15.74	15.79	17.49	19.15	20.45	19.20	20.08
29	14.18	14.93	15.16	15.19	---	15.63	16.15	16.36	19.12	20.55	19.54	19.70
30	14.18	14.20	14.61	15.27	---	14.69	15.57	15.57	19.63	19.80	19.38	18.96
31	14.73	---	14.29	15.16	---	14.75	---	16.10	---	18.99	19.27	---
MEAN	14.19	14.77	14.89	14.88	14.20	13.21	15.37	14.26	19.03	19.88	19.56	19.75
WTR YR 1990		MEAN	16.17	HIGH	1.47	LOW	21.73					

GROUND-WATER LEVELS

LAURENS COUNTY

32265208303001 Local number, 21T001.

LOCATION.—Lat 32°27'06", long 83°03'28", Hydrologic Unit 03070102, approximately 1.8 mi northeast of Dexter, Ga.

Owner: Danny Hogan.

AQUIFER.—Upper Floridan aquifer.

WELL CHARACTERISTICS.—Drilled unused domestic well, diameter 4 in., depth 123 ft, cased to 89 ft, open hole.

INSTRUMENTATION.—Water-level recorder.

DATUM.—Elevation of land-surface is 252 ft above National Geodetic Vertical Datum of 1929 (from barometric levels).

Measuring point: Floor of recorder shelter, 2.57 ft above land-surface datum.

REMARKS.—Borehole geophysical survey conducted Nov. 1973. Water levels for period of missing record, Feb. 17-28, were estimated.

PERIOD OF RECORD.—March 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.—Highest water level, 23.62 ft below land-surface datum, Jan. 26, 1987; lowest, 39.58 ft below land-surface datum, Nov. 12, 1968.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.83	33.09	32.36	28.49	27.79	27.32	28.15	29.79	32.80	35.44	37.45	38.05
2	32.68	33.12	32.34	28.28	27.87	27.28	27.94	29.87	32.90	35.54	37.47	38.14
3	32.53	33.14	32.29	28.01	27.91	27.22	27.83	29.99	32.96	35.67	37.49	38.19
4	32.37	33.21	32.29	27.79	27.94	27.32	27.78	30.09	32.96	35.79	37.51	38.25
5	32.29	33.25	32.27	27.64	27.99	27.46	27.75	30.13	33.00	35.89	37.52	38.32
6	32.25	33.26	32.24	27.46	27.94	27.60	27.74	30.21	33.11	35.97	37.54	38.34
7	32.19	33.26	32.24	27.18	27.87	27.75	27.77	30.34	33.24	36.07	37.55	38.36
8	32.16	33.25	32.18	26.66	27.84	27.87	27.87	30.47	33.34	36.19	37.57	38.43
9	32.19	33.22	32.08	26.28	27.69	27.92	27.94	30.54	33.34	36.28	37.55	38.51
10	32.22	33.21	32.08	26.01	27.47	27.98	27.98	30.53	33.34	36.32	37.54	38.57
11	32.24	33.21	31.66	25.83	27.41	28.06	27.96	30.64	33.37	36.38	37.53	38.61
12	32.30	33.23	31.40	25.79	27.44	28.13	28.07	30.75	33.46	36.43	37.53	38.64
13	32.32	33.25	31.05	25.75	27.50	28.22	28.20	30.84	33.56	36.46	37.51	38.67
14	32.33	33.25	30.59	25.74	27.50	28.27	28.29	30.93	33.63	36.46	37.46	38.68
15	32.33	33.24	30.31	25.72	27.43	28.35	28.32	31.02	33.71	36.52	37.43	38.68
16	32.36	33.13	30.00	25.70	27.41	28.43	28.41	31.12	33.81	36.59	37.40	38.69
17	32.38	33.20	29.85	25.71	27.43	28.44	28.55	31.21	33.96	36.63	37.38	38.78
18	32.40	33.25	29.71	25.72	27.55	28.45	28.72	31.33	34.06	36.66	37.38	38.85
19	32.42	33.27	29.53	25.74	27.59	28.47	28.90	31.44	34.13	36.66	37.39	38.86
20	32.53	33.24	29.36	25.76	27.57	28.47	29.00	31.51	34.26	36.66	37.45	38.86
21	32.59	33.16	29.17	25.77	27.56	28.51	29.05	31.59	34.41	36.66	37.51	38.90
22	32.63	33.15	29.00	25.79	27.53	28.53	29.10	31.67	34.51	36.66	37.54	38.91
23	32.70	33.03	28.88	25.83	27.50	28.55	29.23	31.81	34.59	36.67	37.54	38.95
24	32.74	33.00	28.78	25.85	27.47	28.58	29.36	31.94	34.67	36.76	37.56	39.02
25	32.77	32.84	28.67	26.59	27.46	28.62	29.50	32.06	34.79	36.85	37.61	39.05
26	32.81	32.67	28.57	27.18	27.43	28.68	29.61	32.14	34.89	36.96	37.67	39.06
27	32.87	32.57	28.54	27.27	27.40	28.74	29.69	32.22	35.01	37.03	37.69	39.07
28	32.92	32.50	28.53	27.29	27.36	28.81	29.73	32.29	35.14	37.10	37.75	39.11
29	32.95	32.40	28.53	27.34	---	28.74	29.69	32.38	35.27	37.20	37.80	39.16
30	32.98	32.39	28.53	27.51	---	28.58	29.72	32.54	35.35	37.27	37.86	39.19
31	33.01	---	28.53	27.69	---	28.37	---	32.68	---	37.36	37.96	---
MEAN	32.53	33.07	30.37	26.62	27.60	28.18	28.60	31.16	33.92	36.49	37.55	38.70
WTR YR 1990		MEAN	32.09	HIGH	25.70	LOW	39.19					

GROUND-WATER LEVELS

LIBERTY COUNTY

314343081251901 Local number, 34M054.

LOCATION.--Lat 31°43'43", long 81°25'19", Hydrologic Unit 03060204, Riceboro, Ga., near entrance to Interstate Paper Co.

Owner: U.S. Geological Survey, test well 2.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 802 ft, cased to 467 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 19 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.4 ft above land-surface datum.

REMARKS.--Well pumped July 11, 1979; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted June 15, 1976.

PERIOD OF RECORD.--February 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.85 ft below land-surface datum, Feb. 5, 1967; lowest, 31.97 ft below land-surface datum, Sept. 28, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.35	27.09	26.67	26.30	25.96	26.24	26.63	26.78	28.82	30.23	30.80	31.24
2	27.33	27.04	26.46	26.46	25.93	26.04	26.70	26.78	29.02	30.21	30.77	31.27
3	27.46	27.05	26.38	26.40	25.81	25.84	25.93	26.94	28.98	30.39	30.72	31.29
4	27.50	27.10	26.38	26.28	25.69	25.76	26.23	26.91	28.94	30.25	30.78	31.29
5	27.53	27.19	26.21	26.20	25.84	25.85	26.44	26.72	29.06	30.27	30.86	31.18
6	27.50	27.17	26.02	26.18	25.96	25.93	26.53	26.68	29.09	30.14	30.96	31.20
7	27.37	27.03	26.41	26.07	26.03	25.97	26.65	26.85	29.19	30.12	31.01	31.22
8	27.36	26.87	26.13	25.93	26.30	26.01	26.99	27.03	29.49	30.13	31.09	31.18
9	27.43	26.80	25.94	25.93	26.17	25.91	26.88	26.98	29.57	29.68	30.86	31.18
10	27.26	26.85	26.08	26.03	25.91	25.94	26.35	26.87	29.39	28.75	30.97	31.35
11	26.01	26.88	26.13	26.32	25.84	25.95	26.59	27.14	29.21	28.22	31.05	31.50
12	26.65	26.91	25.86	26.20	25.97	26.05	26.99	27.22	29.48	27.89	31.01	31.59
13	26.83	27.02	25.95	26.43	26.17	26.19	27.09	27.16	29.62	27.65	31.06	31.45
14	26.73	26.81	26.16	26.49	26.26	26.19	26.97	27.36	29.72	27.47	31.09	31.49
15	26.86	26.65	26.05	26.46	26.26	26.15	26.93	27.59	29.69	27.45	31.08	31.29
16	27.03	26.54	25.98	26.49	26.20	26.13	27.08	27.53	29.69	27.43	31.05	31.27
17	27.17	26.71	26.03	26.01	26.26	26.04	27.15	27.55	29.76	27.35	30.99	31.28
18	26.87	26.79	26.05	25.96	26.25	26.20	27.36	27.66	29.80	27.06	31.16	31.47
19	26.89	26.80	25.86	25.98	26.18	26.35	27.33	27.71	29.80	26.83	31.07	31.48
20	26.88	26.54	25.86	25.90	26.25	26.44	27.20	27.67	29.85	26.78	30.91	31.56
21	26.88	26.30	25.84	25.79	26.25	26.59	26.96	27.65	29.82	27.08	30.97	31.51
22	26.93	26.39	26.01	25.79	26.23	26.66	26.89	27.73	29.85	27.16	30.98	31.59
23	27.04	26.39	26.21	25.84	26.10	26.68	26.91	28.15	29.74	28.00	30.89	31.60
24	27.05	26.53	27.05	25.81	26.15	26.63	27.04	28.10	29.72	28.60	30.87	31.83
25	27.18	26.56	26.70	25.75	26.37	26.58	27.15	28.40	29.84	28.51	30.93	31.89
26	27.25	26.66	26.44	25.98	26.63	26.58	27.07	28.31	29.78	29.64	30.96	31.77
27	27.06	26.56	26.41	26.08	26.59	26.58	27.03	28.19	29.72	29.86	30.92	31.85
28	27.08	26.55	26.36	25.95	26.28	26.57	27.01	28.15	29.93	30.08	30.89	31.97
29	26.97	26.60	26.33	25.72	---	26.48	27.09	28.27	30.19	30.23	30.90	31.96
30	26.94	26.66	26.27	25.87	---	26.54	27.14	28.51	30.32	30.54	30.97	31.91
31	26.97	---	26.19	25.92	---	26.57	---	28.64	---	30.65	31.23	---
MEAN	27.08	26.77	26.21	26.08	26.14	26.25	26.88	27.52	29.57	28.86	30.96	31.49
WTR YR 1990		MEAN	27.82	HIGH	25.69	LOW	31.97					

GROUND-WATER LEVELS

LIBERTY COUNTY

315214081235301 Local number, 34N089.

LOCATION.--Lat 31°52'14", long 81°23'53", Hydrologic Unit 03060204, north of Midway, Ga., near intersection of Georgia Highway 196 and U.S. Highway 17.

Owner: U.S. Geological Survey, test well 1.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 789 ft, cased to 410 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 17 ft National Geodetic Vertical Datum of 1929.

Measuring point: Top of 4 in. casing, 1.33 ft above land-surface datum.

REMARKS.--Well pumped July 11, 1979; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted June 15, 1976. Well levels for period of missing record, June 17-25, were estimated.

PERIOD OF RECORD.--February 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.34 ft below land-surface datum, March 6, 1967; lowest, 29.31 ft below land-surface datum, Sept. 28, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.20	25.11	24.89	24.74	24.44	24.00	23.84	24.30	25.68	27.62	28.12	28.71
2	25.13	25.08	24.82	24.80	24.38	23.83	23.78	24.37	25.76	27.59	28.21	28.81
3	25.16	25.10	24.78	24.89	24.34	23.70	23.72	24.46	25.72	27.66	28.20	28.80
4	25.19	25.14	24.78	24.79	24.24	23.86	23.76	24.47	25.70	27.78	28.24	28.82
5	25.23	25.17	24.66	24.72	24.36	23.96	23.84	24.30	25.82	27.76	28.28	28.78
6	25.23	25.12	24.64	24.68	24.44	23.98	23.85	24.36	26.00	27.72	28.30	28.71
7	25.20	25.02	24.70	24.63	24.33	24.06	23.91	24.48	26.10	27.82	28.30	28.65
8	25.16	24.94	24.52	24.50	24.34	24.06	24.09	24.62	26.20	28.03	28.39	28.74
9	25.28	24.88	24.66	24.58	24.24	23.96	24.17	24.48	26.23	28.12	28.43	28.84
10	25.30	25.01	24.52	24.58	24.05	23.91	24.03	24.40	26.36	28.09	28.44	28.85
11	25.30	25.10	24.52	24.52	24.06	23.92	23.90	24.54	26.44	28.09	28.48	28.86
12	25.30	25.11	24.34	24.48	24.19	23.94	24.03	24.62	26.55	28.08	28.53	28.87
13	25.26	25.13	24.40	24.68	24.26	23.88	24.14	24.56	26.64	28.01	28.54	28.90
14	25.18	25.07	24.54	24.77	24.22	23.82	24.06	24.62	26.63	27.94	28.60	28.87
15	25.14	24.94	24.44	24.74	24.16	23.82	23.96	24.66	26.56	27.99	28.59	28.85
16	25.14	24.88	24.45	24.73	24.08	23.80	23.98	24.68	26.63	28.02	28.57	28.95
17	25.12	25.05	24.52	24.69	24.16	23.72	24.03	24.74	26.65	28.03	28.54	29.12
18	24.99	25.16	24.50	24.61	24.18	23.84	24.19	24.85	26.73	27.95	28.57	29.24
19	24.98	25.18	24.36	24.59	24.07	23.85	24.35	24.90	26.76	27.88	28.58	29.16
20	25.12	25.01	24.40	24.56	24.44	23.89	24.37	24.88	26.87	27.79	28.68	29.10
21	25.19	24.84	24.40	24.43	24.18	24.01	24.27	24.89	27.03	27.68	28.71	29.08
22	25.21	24.85	24.50	24.48	24.00	23.93	24.15	24.87	27.24	27.59	28.68	29.02
23	25.26	24.86	24.56	24.49	23.78	23.98	24.20	24.98	27.23	27.58	28.59	29.09
24	25.22	25.06	24.58	24.41	23.99	23.97	24.26	25.10	27.25	27.62	28.60	29.15
25	25.20	25.00	24.57	24.32	24.18	23.98	24.33	25.27	27.37	27.66	28.66	29.22
26	25.17	24.92	24.64	24.50	24.32	23.97	24.04	25.28	27.42	27.68	28.68	29.22
27	25.16	24.88	24.70	24.62	24.23	24.00	24.26	25.23	27.47	27.70	28.63	29.25
28	25.16	24.82	24.76	24.53	24.08	24.01	24.20	25.21	27.54	27.80	28.55	29.31
29	25.11	24.88	24.78	24.32	---	23.94	24.21	25.26	27.60	27.91	28.50	29.29
30	25.05	24.91	24.76	24.35	---	23.90	24.26	25.42	27.68	28.01	28.50	29.28
31	25.06	---	24.65	24.42	---	23.82	---	25.32	---	28.12	28.60	---
MEAN	25.17	25.01	24.59	24.59	24.21	23.91	24.07	24.78	26.66	27.85	28.49	28.98
WTR YR 1990		MEAN	25.70	HIGH	23.70	LOW	29.31					

GROUND-WATER LEVELS

LONG COUNTY

313845081361701 Local number, 33M004.

LOCATION.--Lat 31°38'54", long 81°36'04", Hydrologic Unit 03070106, 9 mi southeast of Ludowici, at Hope Cemetery.

Owner: U.S. Geological Survey, test well 3.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 3 to 4 in., depth 872 ft, cased to 538 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 61.2 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of recorder shelter, 3.5 ft above land-surface datum.

REMARKS.--Well pumped and sounded June 17, 1976, to depth of 861 ft; water-quality sample collected at conclusion of pumping.

Borehole geophysical survey conducted July 28, 1976.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.04 ft below land-surface datum, Jan. 14, 1968; lowest, 58.85 ft below land-surface datum, Sept. 30, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55.46	55.25	55.01	54.86	54.88	54.77	54.36	53.55	55.34	56.78	57.50	58.22
2	55.43	55.23	54.90	55.12	54.82	54.62	54.29	53.50	55.41	56.79	57.55	58.26
3	55.48	55.25	54.81	55.08	54.79	54.44	54.21	53.57	55.38	56.91	57.53	58.27
4	55.47	55.33	54.83	54.98	54.64	54.45	54.26	53.57	55.32	57.04	57.55	58.32
5	55.47	55.36	54.69	54.91	54.81	54.54	54.34	53.46	55.39	57.05	57.57	58.31
6	55.44	55.32	54.66	54.85	54.92	54.59	54.37	53.51	55.52	57.01	57.57	58.26
7	55.37	55.22	54.75	54.83	54.81	54.70	54.45	53.70	55.59	57.07	57.58	58.22
8	55.31	55.14	54.61	54.71	54.84	54.81	54.64	53.85	55.69	57.22	57.64	58.24
9	55.41	55.10	54.55	54.88	54.75	54.75	54.72	53.83	55.75	57.30	57.69	58.29
10	55.39	55.24	54.73	54.89	54.52	54.66	54.61	53.73	55.76	57.33	57.70	58.33
11	55.40	55.35	54.77	54.85	54.57	54.63	54.47	53.98	55.76	57.36	57.76	58.37
12	55.42	55.39	54.59	54.76	54.71	54.63	54.64	54.11	55.87	57.41	57.84	58.39
13	55.39	55.39	54.67	55.04	54.83	54.62	54.76	54.11	55.98	57.38	57.85	58.40
14	55.33	55.31	54.90	55.12	54.83	54.55	54.66	54.20	55.98	57.34	57.87	58.39
15	55.31	55.18	54.81	55.09	54.80	54.53	54.53	54.29	55.94	57.41	57.89	58.32
16	55.28	55.08	54.79	55.08	54.73	54.52	54.55	54.32	56.00	57.49	57.91	58.29
17	55.24	55.32	54.95	55.04	54.73	54.44	54.60	54.32	56.12	57.51	57.91	58.43
18	55.09	55.41	54.94	54.95	54.80	54.43	54.81	54.40	56.14	57.47	57.95	58.60
19	55.02	55.45	54.84	54.91	54.73	54.48	55.01	54.45	56.10	57.44	57.97	58.63
20	55.12	55.30	54.86	54.87	54.72	54.52	55.01	54.45	56.18	57.41	58.01	58.61
21	55.15	55.12	54.88	54.77	54.80	54.65	54.87	54.47	56.32	57.38	58.05	58.60
22	55.17	55.10	54.98	54.81	54.67	54.67	54.74	54.46	56.39	57.32	58.04	58.58
23	55.21	55.10	55.02	54.84	54.53	54.63	54.81	54.62	56.36	57.30	58.02	58.52
24	55.20	55.30	54.98	54.79	54.58	54.60	54.85	54.73	56.43	57.30	58.05	58.69
25	55.19	55.21	54.90	54.70	54.81	54.63	54.78	54.83	56.56	57.34	58.11	58.73
26	55.19	55.06	54.82	54.91	55.02	54.61	54.56	54.83	56.64	57.39	58.14	58.71
27	55.21	55.08	54.89	55.06	55.03	54.64	54.33	54.78	56.68	57.37	58.12	58.72
28	55.22	55.02	54.92	54.98	54.88	54.64	54.05	54.76	56.75	57.36	58.08	58.80
29	55.17	54.99	54.95	54.73	---	54.53	53.87	54.81	56.82	57.39	58.06	58.84
30	55.13	55.05	54.92	54.78	---	54.47	53.69	55.04	56.83	57.43	58.05	58.85
31	55.16	---	54.77	54.85	---	54.37	---	55.20	---	57.44	58.13	---
MEAN	55.28	55.22	54.83	54.90	54.77	54.58	54.53	54.24	56.03	57.28	57.86	58.47
WTR YR 1990		MEAN	55.67	HIGH	53.46	LOW	58.85					

GROUND-WATER LEVELS

LOWNDES COUNTY

304949083165301 Local number, 19E009.

LOCATION.--Lat 30°49'51", long 83°16'59", Hydrologic Unit 03110202, N. Oak Street, one block north of intersection with U.S. Highway 84, Valdosta, Ga.

Owner: City of Valdosta.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unused municipal well, diameter 20 in., depth 342 ft, cased to 200 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 217 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

Measuring point: Top of casing, 1.7 ft above land-surface datum.

REMARKS.--Well pumped July 18, 1978, water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted April 11, 1963. Water level affected by city pumping. Water levels for period of missing record, March 14-27, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 112.69 ft below land-surface datum, March 9, 1964; lowest, 151.79 ft below land-surface datum, Sept. 19, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136.90	136.51	134.01	130.96	127.18	124.95	127.11	130.70	140.26	147.77	147.30	149.05
2	135.98	137.46	133.99	130.96	127.65	125.34	126.93	132.02	141.24	148.20	148.05	148.01
3	134.92	138.00	133.60	130.98	127.90	125.28	126.31	133.75	141.26	146.42	148.82	148.09
4	134.74	138.31	133.54	130.26	127.48	126.07	126.36	134.56	140.44	146.21	149.16	149.22
5	134.28	138.85	133.16	130.32	127.57	125.63	126.68	134.19	139.85	147.02	147.83	149.34
6	134.87	138.57	133.21	130.27	126.88	125.94	127.22	131.90	140.16	147.62	148.67	149.88
7	134.67	137.69	133.22	129.87	127.18	126.17	127.44	130.89	141.43	147.59	148.97	149.93
8	134.80	137.68	133.40	129.81	127.40	125.75	127.10	130.83	142.70	147.85	148.93	150.13
9	135.26	137.83	133.45	129.43	127.83	126.31	127.30	130.41	141.58	148.91	146.82	149.54
10	134.98	138.50	133.42	129.42	127.17	127.03	127.67	130.57	140.32	148.55	146.92	149.82
11	135.25	138.16	132.13	129.11	127.27	127.87	127.48	131.88	140.55	148.83	146.76	150.16
12	135.98	136.81	131.70	129.24	127.36	127.41	127.49	132.83	141.51	149.21	146.82	150.27
13	137.03	135.76	131.66	129.11	126.73	127.50	128.13	132.86	143.13	149.74	147.02	150.28
14	137.34	135.01	132.07	128.60	127.27	127.57	128.36	133.42	143.37	146.67	149.30	150.46
15	137.19	134.84	132.31	128.33	126.85	127.67	128.26	135.53	144.17	145.70	148.82	149.72
16	137.36	134.42	132.46	128.15	127.16	127.78	128.07	135.59	144.68	145.40	148.42	149.29
17	137.35	134.65	132.42	128.06	126.77	127.76	128.73	136.15	143.67	146.14	148.60	149.67
18	136.73	134.86	131.31	128.19	126.49	127.25	129.14	136.81	144.36	146.10	147.49	151.20
19	136.46	134.84	131.51	128.54	126.06	127.01	128.75	137.25	145.98	145.39	146.86	151.79
20	136.07	134.82	131.09	128.59	126.01	126.88	129.18	136.98	146.63	145.00	147.41	150.78
21	135.58	134.79	131.22	127.86	125.89	126.69	130.00	137.26	147.38	145.42	148.16	150.77
22	134.61	134.83	132.43	127.90	125.55	126.46	130.26	136.28	147.27	144.48	148.38	150.56
23	134.30	133.88	132.50	127.70	125.59	126.33	129.31	136.74	145.47	143.30	148.47	150.00
24	134.05	134.28	135.69	127.75	125.55	126.24	128.75	137.51	145.60	143.65	148.13	150.27
25	133.83	134.44	139.71	127.71	125.60	126.61	129.49	139.07	147.04	144.38	148.07	150.74
26	134.25	134.12	139.42	128.42	125.27	126.81	129.71	139.61	148.35	144.96	147.56	150.73
27	135.10	133.85	137.06	128.33	125.35	127.11	131.30	139.06	148.50	145.93	147.88	151.34
28	135.65	133.45	134.26	127.53	124.79	127.35	130.78	138.35	148.10	145.60	148.54	150.39
29	135.77	133.46	133.00	127.37	---	127.40	129.99	137.78	147.11	145.45	149.62	150.02
30	135.66	133.52	132.22	127.50	---	127.96	130.12	138.62	147.72	146.99	149.35	148.92
31	135.82	---	132.03	127.24	---	127.46	---	139.57	---	147.41	149.96	---
MEAN	135.57	135.81	133.33	128.82	126.64	126.76	128.45	135.13	143.99	146.51	148.16	150.01
WTR YR 1990		MEAN	136.65	HIGH	124.79	LOW	151.79					

GROUND-WATER LEVELS

MCINTOSH COUNTY

313823081154201 Local number, 35M013.

LOCATION--Lat 31°38'23", long 84°15'42", Hydrologic Unit 03060204, 8.5 mi east of U.S. Highway 17 at Harris Neck Wildlife Refuge.

Owner: U.S. Department of the Interior, Fish and Wildlife Service.

AQUIFER--Upper Floridan aquifer.

WELL CHARACTERISTICS--Drilled unused supply well, diameter 10 in., depth 553 ft, cased to 376 ft, open hole.

INSTRUMENTATION--Water-level recorder.

DATUM--Elevation of land-surface is 16.3 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.20 ft above land-surface datum.

REMARKS--Well pumped August 3, 1978; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted June 16, 1976. Water levels for periods of missing record, Dec. 13-20 and Jan. 11-25, were estimated.

PERIOD OF RECORD--September 1966 to current year.

EXTREMES FOR PERIOD OF RECORD--Highest water level, 4.35 ft below land-surface datum, October 4, 1966; lowest, 26.59 ft below land-surface datum, Sept. 25, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.15	23.17	23.59	23.37	23.02	22.71	22.54	23.18	23.34	24.65	25.05	25.70
2	23.22	23.10	23.35	23.58	22.99	22.53	22.46	22.99	23.43	24.72	25.04	25.71
3	23.26	23.12	23.41	23.50	22.97	22.48	22.46	23.17	23.44	24.85	25.05	25.74
4	23.23	23.19	23.33	23.38	22.87	22.58	22.61	23.29	23.43	24.82	25.09	25.79
5	23.21	23.17	23.27	23.29	23.00	22.62	22.74	23.04	23.39	24.98	25.14	25.74
6	23.30	23.23	23.19	23.17	22.94	22.64	22.72	22.94	23.43	24.98	25.17	25.72
7	23.33	23.31	23.19	22.99	22.85	22.61	22.70	23.04	23.60	24.91	25.18	25.76
8	23.25	23.06	22.92	22.97	22.88	22.63	22.72	23.09	23.71	25.00	25.24	25.85
9	23.17	23.01	22.78	23.10	22.81	22.67	22.75	23.07	23.74	25.19	25.28	25.88
10	23.15	23.12	22.98	23.20	22.67	22.73	22.70	23.08	23.78	25.15	25.27	25.90
11	23.17	23.19	22.98	23.49	22.68	22.70	22.68	23.10	23.89	25.21	25.33	25.93
12	23.21	23.24	22.77	23.36	22.90	22.74	22.75	23.09	24.00	25.23	25.41	25.90
13	23.20	23.24	22.89	23.59	23.00	22.74	22.82	23.03	23.89	25.18	25.43	25.93
14	23.11	23.16	23.09	23.65	23.00	22.74	22.69	23.22	23.86	25.13	25.47	25.90
15	23.12	23.07	23.05	23.62	22.94	22.66	22.61	23.27	23.80	25.18	25.51	25.87
16	23.17	23.18	23.12	23.65	22.94	22.61	22.65	23.10	23.78	25.22	25.48	25.86
17	23.17	23.37	23.25	23.17	23.01	22.57	22.76	23.18	23.78	25.20	25.42	26.03
18	23.12	23.47	23.29	23.11	22.87	22.70	22.94	23.17	23.83	25.24	25.40	26.11
19	23.27	23.48	23.21	23.13	22.83	22.66	23.13	23.11	23.84	25.09	25.41	26.03
20	23.46	23.39	23.31	23.05	22.83	22.67	23.13	23.02	23.93	24.98	25.47	26.07
21	23.40	23.32	23.37	22.94	22.75	22.69	22.91	23.04	24.07	24.96	25.53	26.11
22	23.39	23.43	23.36	22.98	22.69	22.70	22.72	22.94	24.25	24.92	25.50	26.13
23	23.30	23.37	23.32	22.99	22.62	22.67	22.74	22.84	24.22	24.81	25.48	26.16
24	23.20	23.44	23.27	22.95	22.94	22.62	22.81	22.90	24.22	24.75	25.56	26.41
25	23.14	23.34	23.18	22.89	22.99	22.61	23.01	23.03	24.31	24.74	25.66	26.59
26	23.04	23.23	23.27	23.12	22.94	22.55	22.97	23.05	24.34	24.68	25.71	26.36
27	22.99	23.31	23.33	23.22	22.89	22.56	23.11	23.02	24.41	24.62	25.70	26.47
28	22.99	23.33	23.54	23.10	22.81	22.75	22.83	22.95	24.53	24.61	25.68	26.40
29	22.88	23.41	23.37	22.89	---	22.57	23.00	23.01	24.73	24.69	25.66	26.36
30	22.86	23.38	23.31	22.98	---	22.70	23.29	23.19	24.74	24.83	25.64	26.32
31	23.01	---	23.16	23.05	---	22.59	---	23.27	---	24.93	25.65	---
MEAN	23.18	23.26	23.21	23.21	22.88	22.65	22.80	23.08	23.92	24.95	25.41	26.02
WTR YR 1990		MEAN	23.72	HIGH	22.46	LOW	26.59					

GROUND-WATER LEVELS

MILLER COUNTY

310651084404501 Local number, 08G001.

LOCATION--Lat 31°06'51", long 84°40'45", Hydrologic Unit 03130010, 1 mi northeast of Boykin, Ga.

Owner: Viercocken.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unused irrigation well, diameter 12 in., depth 255 ft, cased to 130 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 150 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

Measuring point: Top front edge of recorder shelter, 3.0 ft above land-surface datum.

REMARKS.--Water levels for period of missing record, Aug. 31 to Sept. 20, were estimated.

PERIOD OF RECORD.--February 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.18 ft below land-surface datum, April 11, 1984; lowest, 43.88 ft below land-surface datum, July 17, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.84	38.45	36.14	23.65	20.42	18.04	22.18	27.08	34.30	37.85	38.82	38.92
2	32.54	38.56	36.14	18.25	20.62	18.04	22.26	28.71	34.38	38.35	38.73	38.94
3	30.97	37.10	36.22	17.30	20.82	18.17	22.37	29.21	34.40	38.40	38.69	38.96
4	30.46	36.31	36.24	17.28	21.00	18.40	22.51	28.89	34.44	38.49	38.66	39.13
5	30.63	36.12	36.21	17.54	21.31	18.61	22.64	28.14	34.65	38.59	38.65	39.22
6	31.00	36.02	36.28	17.92	21.50	19.10	22.76	27.86	34.88	38.65	38.65	39.30
7	31.30	35.97	36.36	18.08	21.66	20.06	22.97	28.48	34.91	38.78	38.80	39.47
8	31.65	35.93	36.31	16.85	21.85	20.19	23.12	29.53	35.33	38.93	39.41	39.69
9	32.27	35.98	36.40	15.72	21.96	20.06	23.21	30.01	34.07	38.63	39.87	39.92
10	33.64	36.03	36.43	15.35	22.04	20.16	23.23	28.49	33.32	37.66	40.22	40.08
11	35.51	36.02	36.37	15.29	22.25	20.27	23.20	28.57	33.93	37.13	40.45	40.13
12	36.36	35.97	36.27	15.44	22.44	20.47	23.26	28.52	35.13	36.96	40.63	40.17
13	36.83	35.86	36.35	15.69	22.53	20.79	23.28	28.50	35.66	36.88	40.77	40.16
14	36.11	35.72	36.28	15.88	22.57	20.98	23.21	28.52	36.20	36.86	40.87	40.19
15	34.65	35.56	36.01	16.11	22.59	21.22	23.16	29.05	36.70	37.00	40.96	40.14
16	34.21	35.59	35.97	16.34	22.65	21.43	23.26	30.50	37.06	37.11	41.08	40.06
17	34.14	35.71	35.86	16.57	22.69	21.55	23.36	31.15	36.69	37.49	41.22	39.93
18	34.12	35.74	35.70	16.83	22.51	21.62	23.54	31.38	35.91	38.41	41.29	39.83
19	34.26	35.78	35.51	17.08	22.26	21.53	23.75	30.28	36.33	38.10	41.21	39.72
20	34.38	35.63	35.32	17.33	22.01	21.47	24.17	29.62	36.75	37.58	41.03	39.70
21	34.42	35.56	34.97	17.60	21.55	21.76	25.49	29.59	37.72	37.46	40.81	39.69
22	34.47	35.57	34.64	17.88	20.92	22.61	25.98	29.54	38.22	37.41	40.70	39.78
23	34.53	35.77	34.22	18.11	20.33	22.34	27.38	29.54	37.66	37.38	40.68	39.82
24	34.56	35.90	33.74	18.33	19.72	21.87	27.75	29.70	37.28	37.47	40.49	39.87
25	34.58	35.84	33.19	18.58	19.11	21.63	27.83	30.77	37.20	37.53	40.06	39.92
26	34.63	35.82	32.79	18.96	18.60	21.56	27.72	32.24	37.38	37.75	39.59	40.00
27	34.70	35.89	32.61	19.21	18.26	21.65	28.28	32.73	38.44	38.72	39.21	40.07
28	34.80	35.94	32.50	19.42	18.08	21.84	27.44	33.05	39.00	39.22	38.95	40.11
29	34.88	36.08	32.42	19.61	---	21.95	26.47	32.99	38.69	39.39	38.79	40.14
30	35.59	36.12	32.38	19.90	---	21.97	26.36	33.76	38.33	39.28	38.87	40.16
31	37.74	---	31.84	20.19	---	22.05	---	34.18	---	38.97	38.92	---
MEAN	33.99	36.08	35.09	17.69	21.22	20.75	24.40	30.02	36.17	38.01	39.91	39.77
WTR YR 1990		MEAN	31.14	HIGH	15.29	LOW	41.29					

GROUND-WATER LEVELS

RANDOLPH COUNTY

314602084473701 Local number, 07N001.

LOCATION.--Lat 31°46'09", long 84°47'43", Hydrologic Unit 03110204, south of intersection of College and Andrew Streets, near electric substation.

Owner: City of Cuthbert.

AQUIFER.--Clayton Limestone.

WELL CHARACTERISTICS.--Drilled unused municipal well, diameter 8 in., depth 372 ft, casing depth unknown.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 460 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

Measuring point: Floor of recorder shelter, 3.30 ft above land-surface datum.

REMARKS.--Well pumped and sounded June 22, 1978, to a depth of 372 ft; water-quality sample collected at conclusion of pumping. Well near city wells.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 132.0 ft below land-surface datum, December 10, 1967; lowest, 162.08 ft below land-surface datum, Aug. 4, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153.48	151.49	150.32	149.42	148.57	148.07	149.43	150.06	152.59	155.45	156.44	157.68
2	153.33	151.43	150.31	149.96	148.54	148.38	149.11	150.36	152.86	156.40	155.91	157.31
3	153.25	151.23	150.19	149.59	148.53	148.04	148.33	149.85	152.89	155.69	156.70	157.75
4	153.00	151.20	150.44	149.35	148.41	148.03	148.60	150.12	152.38	155.52	156.68	157.85
5	153.02	151.29	150.03	149.08	148.31	148.29	148.90	149.93	152.64	155.90	156.67	157.64
6	152.88	151.28	150.45	149.16	148.65	147.95	148.53	150.17	152.92	156.10	157.72	157.46
7	152.83	151.09	149.76	148.86	148.59	148.17	148.46	150.48	153.01	156.02	158.11	157.77
8	152.55	150.71	149.51	149.25	148.36	148.29	148.59	150.83	152.82	156.25	158.27	158.02
9	152.52	150.80	149.58	149.38	149.09	148.01	148.47	150.28	152.71	156.67	157.73	158.09
10	152.63	151.73	149.84	149.45	148.44	148.41	148.21	149.82	152.81	156.32	157.91	157.48
11	152.55	151.81	149.65	149.33	148.38	148.03	148.47	150.02	153.16	156.04	158.42	158.03
12	152.54	151.81	149.91	149.24	148.70	148.34	148.46	150.14	152.72	155.39	157.95	157.94
13	152.58	150.98	149.83	149.50	148.39	147.92	148.79	149.98	152.97	155.54	158.06	158.23
14	152.74	150.80	150.40	149.41	148.65	148.04	148.18	149.93	153.17	155.17	159.03	156.86
15	152.35	150.37	150.57	149.39	148.49	148.27	148.32	149.51	153.10	155.25	159.71	157.15
16	152.43	151.18	150.04	149.59	148.21	148.19	148.16	150.00	154.15	155.58	159.32	156.90
17	152.41	151.72	150.73	149.37	148.47	147.80	148.89	150.20	153.42	155.20	160.38	158.08
18	152.03	151.74	150.08	148.92	148.51	148.04	148.88	149.72	153.47	154.98	159.13	157.22
19	152.90	151.53	149.82	148.99	148.56	148.33	148.42	150.08	152.51	153.99	158.93	157.94
20	153.03	151.55	149.96	149.24	148.23	147.95	148.92	149.76	152.54	154.50	158.44	159.47
21	153.37	151.59	149.83	148.61	148.43	148.51	149.11	149.95	153.10	154.13	160.58	161.46
22	152.85	151.30	151.00	148.97	148.49	148.50	148.93	149.30	152.99	154.21	159.26	159.22
23	153.11	150.99	151.97	148.99	148.02	148.32	148.24	149.74	153.15	154.36	158.56	158.01
24	153.13	151.63	152.24	149.07	148.46	148.45	148.65	150.00	153.52	154.34	158.45	157.87
25	153.06	151.27	152.29	148.36	148.53	148.49	149.12	149.79	154.08	153.95	158.65	159.40
26	153.30	151.99	152.40	148.56	148.50	148.58	149.02	149.75	153.77	153.97	158.50	159.72
27	153.31	151.23	151.95	148.99	148.49	148.67	149.74	150.09	154.38	154.31	158.49	157.43
28	152.99	150.69	150.92	148.85	148.65	148.66	149.91	149.91	154.96	154.34	157.86	156.99
29	152.95	150.84	150.10	148.65	---	148.77	149.92	151.57	155.57	154.71	158.14	156.69
30	152.50	150.57	150.04	148.36	---	148.86	149.72	152.88	155.18	155.62	157.88	156.10
31	151.91	---	149.34	148.74	---	148.45	---	152.26	---	155.35	157.57	---
MEAN	152.82	151.26	150.44	149.12	148.49	148.28	148.82	150.21	153.32	155.20	158.24	157.93
WTR YR 1990		MEAN	152.03	HIGH	147.80	LOW	161.46					

GROUND-WATER LEVELS

SPALDING COUNTY

331507084171801 Local number, 11AA01.

LOCATION--Lat 33°15'07", long 84°17'18", Hydrologic Unit 03070103, University of Georgia Experiment Station, Experiment, Ga.

Owner: University of Georgia.

AQUIFER--Residuum.

WELL CHARACTERISTICS--Dug unused water-table well, size 4 x 4 ft, depth 30 ft, open hole.

INSTRUMENTATION--Water-level recorder.

DATUM--Elevation of land-surface is 960 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

Measuring point: Hole in floor of recorder shelter, 3.1 ft above land-surface datum.

REMARKS--None.

PERIOD OF RECORD--October 1943 to current year.

EXTREMES FOR PERIOD OF RECORD--Highest water level, 8.26 ft below land-surface datum, Mar. 19, 1948; lowest, 21.82 ft below land-surface datum, Nov. 18-19, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.02	18.00	19.02	17.30	14.40	12.92	12.09	13.38	14.91	16.63	17.94	18.96
2	18.69	18.02	19.03	17.23	14.33	12.85	12.10	13.42	14.94	16.70	17.98	19.00
3	18.40	18.07	19.07	17.11	14.32	12.88	12.15	13.49	14.95	16.82	18.01	19.03
4	18.17	18.13	19.09	17.04	14.28	13.02	12.20	13.50	14.97	16.90	18.03	19.09
5	17.99	18.17	19.09	17.01	14.43	13.08	12.27	13.49	15.07	16.94	18.06	19.12
6	17.86	18.20	19.13	16.92	14.40	13.13	12.33	13.60	15.14	16.99	18.10	19.14
7	17.75	18.21	19.18	16.78	14.37	13.21	12.47	13.70	15.19	17.07	18.13	19.19
8	17.67	18.22	19.12	16.58	14.41	13.25	12.54	13.74	15.25	17.16	18.18	19.24
9	17.64	18.28	19.00	16.43	14.34	13.21	12.56	13.70	15.30	17.22	18.22	19.30
10	17.57	18.37	18.89	16.26	14.27	13.25	12.48	13.70	15.34	17.28	18.23	19.33
11	17.55	18.43	18.75	16.07	14.30	13.29	12.50	13.85	15.41	17.35	18.23	19.37
12	17.53	18.47	18.61	15.98	14.28	13.35	12.63	13.85	15.49	17.42	18.25	19.40
13	17.50	18.50	18.55	15.99	14.21	13.35	12.67	13.87	15.56	17.46	18.25	19.42
14	17.48	18.51	18.46	15.89	14.16	13.35	12.62	13.96	15.58	17.49	18.27	19.44
15	17.48	18.51	18.31	15.82	14.10	13.41	12.60	14.00	15.62	17.55	18.31	19.45
16	17.48	18.56	18.26	15.78	14.08	13.40	12.68	14.03	15.72	17.61	18.33	19.48
17	17.47	18.66	18.19	15.72	14.04	12.25	12.73	14.07	15.79	17.64	18.36	19.52
18	17.47	18.71	18.12	15.69	13.89	11.74	12.88	14.17	15.82	17.67	18.40	19.56
19	17.49	18.74	18.03	15.68	13.59	11.56	12.95	14.18	15.87	17.71	18.43	19.58
20	17.53	18.70	17.94	15.64	13.36	11.56	12.93	14.20	15.96	17.72	18.48	19.60
21	17.54	18.72	17.84	15.61	13.18	11.58	12.90	14.27	16.04	17.72	18.51	19.64
22	17.57	18.76	17.79	15.59	12.92	11.59	12.90	14.31	16.08	17.72	18.53	19.67
23	17.60	18.83	17.72	15.53	12.86	11.63	12.99	14.40	16.13	17.73	18.57	19.71
24	17.62	18.89	17.64	15.46	12.95	11.66	13.06	14.45	16.23	17.74	18.62	19.76
25	17.63	18.88	17.55	15.25	13.06	11.74	13.12	14.51	16.31	17.76	18.67	19.78
26	17.66	18.87	17.47	15.08	13.04	11.80	13.13	14.52	16.34	17.78	18.70	19.84
27	17.76	18.90	17.41	14.84	12.97	11.86	13.15	14.54	16.38	17.79	18.73	19.89
28	17.84	18.92	17.38	14.62	12.91	11.92	13.14	14.57	16.46	17.81	18.77	19.94
29	17.86	18.99	17.34	14.41	---	11.94	13.26	14.68	16.53	17.84	18.81	19.98
30	17.88	19.01	17.30	14.43	---	11.97	13.32	14.77	16.59	17.86	18.85	20.02
31	17.92	---	17.24	14.45	---	12.02	---	14.84	---	17.89	18.91	---
MEAN	17.76	18.54	18.27	15.88	13.84	12.51	12.71	14.06	15.70	17.45	18.38	19.48
WTR YR 1990		MEAN	16.23	HIGH	11.56	LOW	20.02					

GROUND-WATER LEVELS

WAYNE COUNTY

313253081433502 Local number, 32L015.

LOCATION.--Lat 31°32'52", long 81°43'36", Hydrologic Unit 03070106, approximately 11 mi southeast of Jesup near Penholoway Creek.

Owner: Georgia Geologic Survey

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 750 ft, cased to 545 ft.

DATUM.--Elevation of land surface is 74 ft.

Measuring point: Floor of recorder shelter, 4.0 ft above land-surface datum.

REMARKS.--Borehole geophysical survey and well sounded, Apr. 20, 1983.

PERIOD OF RECORD.--April 20, 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 49.12 ft below land-surface datum, Mar. 19, 1984; lowest, 63.88 ft below land-surface datum, Sept. 29, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60.79	60.74	59.69	60.05	60.23	59.91	59.49	56.15	60.71	62.08	62.79	63.44
2	60.72	60.66	59.61	60.31	60.14	59.73	59.44	56.72	60.77	62.05	62.81	63.47
3	60.62	60.68	59.62	60.32	60.10	59.58	59.36	57.22	60.75	62.19	62.79	63.40
4	60.50	60.72	59.73	60.28	60.00	59.72	59.46	57.53	60.72	62.28	62.81	63.46
5	60.41	60.77	59.72	60.31	60.22	59.83	59.57	57.65	60.81	62.24	62.85	63.45
6	60.34	60.76	59.82	60.30	60.29	59.89	59.64	57.93	60.93	62.21	62.85	63.39
7	60.29	60.68	59.93	60.29	60.19	59.97	59.77	58.33	60.98	62.30	62.86	63.35
8	60.23	60.59	59.87	60.22	60.22	60.00	59.96	58.64	61.06	62.45	62.93	63.39
9	60.36	60.51	59.89	60.36	60.06	59.87	60.05	58.73	61.11	62.55	62.96	63.46
10	60.36	60.65	60.08	60.33	59.85	59.85	59.91	58.76	61.14	62.58	62.95	63.49
11	60.43	60.71	60.14	60.17	59.86	59.89	59.76	59.11	61.14	62.61	62.97	63.53
12	60.50	60.71	60.02	60.06	60.04	59.94	59.90	59.29	61.27	62.68	63.00	63.57
13	60.50	60.72	60.14	60.33	60.14	59.90	59.97	59.35	61.38	62.65	62.99	63.59
14	60.44	60.65	60.34	60.38	60.09	59.76	59.91	59.45	61.36	62.61	63.03	63.58
15	60.44	60.54	60.26	60.37	59.98	59.70	59.80	59.48	61.29	62.71	63.07	63.49
16	60.47	60.48	60.26	60.37	59.92	59.67	59.82	59.52	61.37	62.87	63.08	63.48
17	60.37	60.71	60.37	60.33	59.99	59.62	59.89	59.56	61.51	62.94	63.08	63.65
18	60.07	60.82	60.38	60.27	60.09	59.75	60.06	59.69	61.54	62.92	63.12	63.81
19	59.93	60.90	60.32	60.26	59.97	59.77	60.19	59.76	61.47	62.91	63.11	63.80
20	60.00	60.71	60.38	60.23	60.06	59.82	60.19	59.78	61.50	62.87	63.14	63.76
21	60.11	60.41	60.38	60.18	60.14	59.96	60.11	59.82	61.61	62.84	63.17	63.73
22	60.25	60.25	60.43	60.25	59.92	59.99	60.01	59.84	61.65	62.81	63.14	63.67
23	60.42	60.14	60.36	60.30	59.73	59.97	59.92	59.99	61.63	62.80	63.13	63.67
24	60.53	60.28	60.22	60.22	59.88	59.96	59.32	60.10	61.71	62.83	63.18	63.81
25	60.61	60.13	60.06	60.16	60.08	59.96	58.48	60.24	61.84	62.84	63.23	63.79
26	60.66	59.89	59.93	60.34	60.23	59.91	57.68	60.25	61.89	62.89	63.28	63.74
27	60.71	59.80	59.93	60.41	60.16	59.89	56.98	60.18	61.90	62.88	63.28	63.79
28	60.71	59.69	59.87	60.28	60.00	59.82	56.29	60.18	61.98	62.83	63.25	63.85
29	60.67	59.68	59.87	60.03	---	59.67	55.84	60.20	62.08	62.81	63.22	63.88
30	60.64	59.72	59.90	60.09	---	59.60	55.85	60.40	62.13	62.79	63.21	63.87
31	60.69	---	59.85	60.19	---	59.47	---	60.57	---	62.76	63.32	---
MEAN	60.44	60.46	60.04	60.26	60.06	59.82	59.22	59.17	61.37	62.64	63.05	63.61
WTR YR 1990		MEAN	60.85	HIGH	55.84	LOW	63.88					

GROUND-WATER LEVELS

WAYNE COUNTY

313701081543501 Local number, 30L003.

LOCATION--Lat 31°37'01", long 81°54'35", Hydrologic Unit 03070106, approximately 0.5 mi west of Jesup city limits near intersection of Highway 341 and Sunset Drive.

Owner: Homer Johnson.

AQUIFER--Upper Floridan aquifer.

WELL CHARACTERISTICS--Drilled unused domestic well, diameter 4 in., depth 584 ft, cased to 472 ft, open hole.

INSTRUMENTATION--Water-level recorder.

DATUM--Elevation of land-surface is 107 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

Measuring point: Floor of shelter, 2.88 ft above land-surface datum.

REMARKS--Borehole geophysical survey conducted August 19, 1963. Water levels for period of missing record, May 10 to June 27, were estimated.

PERIOD OF RECORD--January 1964 to March 1967. February 1976 to current year.

EXTREMES FOR PERIOD OF RECORD--Highest water level, 59.98 ft below land-surface datum, April 19, 1964; lowest, 88.71 ft below land-surface datum, Sept. 29, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85.38	85.30	83.50	84.53	84.62	84.42	84.05	79.63	85.85	87.40	87.63	88.20
2	85.10	85.16	83.49	84.80	84.49	84.22	83.94	80.80	85.91	87.33	87.58	88.15
3	84.76	85.15	83.74	84.82	84.48	84.10	83.78	81.66	85.89	87.45	87.57	87.97
4	84.52	85.24	84.06	84.84	84.49	84.22	83.94	82.09	85.87	87.47	87.62	88.12
5	84.35	85.40	84.26	84.92	84.66	84.30	84.01	82.32	85.96	87.36	87.68	88.16
6	84.35	85.44	84.40	84.96	84.72	84.34	84.12	82.76	86.08	87.40	87.83	88.09
7	84.40	85.30	84.53	84.94	84.61	84.30	84.23	83.28	86.13	87.57	87.79	88.08
8	84.45	85.22	84.58	84.84	84.63	84.26	84.40	83.67	86.22	87.73	87.78	88.16
9	84.53	85.08	84.58	85.00	84.42	84.10	84.49	83.82	86.27	87.90	87.67	88.23
10	84.79	85.19	84.72	84.90	84.23	84.23	84.30	83.85	86.30	87.93	87.64	88.22
11	84.99	85.18	84.88	84.68	84.16	84.32	84.17	84.20	86.30	87.98	87.63	88.30
12	85.18	85.14	84.82	84.66	84.40	84.43	84.22	84.39	86.43	88.08	87.64	88.45
13	85.25	85.26	84.88	84.81	84.49	84.32	84.33	84.45	86.55	87.94	87.63	88.51
14	85.23	85.23	85.06	84.84	84.39	84.11	84.41	84.55	86.53	87.74	87.74	88.49
15	85.23	85.16	85.00	84.82	84.22	84.07	84.36	84.58	86.46	87.78	87.81	88.35
16	85.13	85.08	84.95	84.80	84.18	84.10	84.36	84.63	86.54	87.94	87.80	88.28
17	84.74	85.26	85.08	84.72	84.29	84.12	84.50	84.67	86.69	88.01	87.82	88.49
18	84.26	85.41	85.13	84.62	84.41	84.16	84.70	84.80	86.72	87.91	87.88	88.67
19	83.94	85.52	85.06	84.68	84.35	84.21	84.59	84.87	86.65	87.92	87.80	88.69
20	84.06	85.18	85.17	84.68	84.46	84.36	84.72	84.89	86.68	87.77	87.73	88.56
21	84.30	84.70	85.09	84.62	84.59	84.52	84.74	84.94	86.79	87.63	87.92	88.50
22	84.64	84.30	84.98	84.72	84.38	84.56	84.68	84.96	86.84	87.60	87.88	88.48
23	84.99	84.10	84.78	84.72	84.12	84.57	83.99	85.11	86.82	87.63	87.88	88.48
24	85.16	84.26	84.58	84.58	84.27	84.55	82.60	85.22	86.90	87.70	87.91	88.51
25	85.26	84.12	84.56	84.56	84.39	84.52	81.20	85.37	87.03	87.66	87.88	88.53
26	85.30	83.80	84.45	84.72	84.54	84.48	80.17	85.38	87.09	87.75	87.98	88.55
27	85.36	83.65	84.20	84.70	84.55	84.45	79.28	85.31	87.10	87.83	88.08	88.62
28	85.34	83.49	83.98	84.50	84.45	84.44	78.45	85.31	87.18	87.68	88.18	88.62
29	85.34	83.48	84.09	84.36	---	84.32	77.96	85.33	87.35	87.66	88.06	88.71
30	85.30	83.54	84.28	84.45	---	84.24	78.50	85.54	87.45	87.54	87.95	88.70
31	85.38	---	84.33	84.58	---	84.06	---	85.71	---	87.60	88.08	---
MEAN	84.87	84.81	84.56	84.72	84.43	84.30	83.24	84.13	86.55	87.71	87.81	88.40
WTR YR 1990		MEAN	85.47	HIGH	77.96	LOW	88.71					

GROUND-WATER LEVELS

WORTH COUNTY

313146083491601 Local number, 15L020.

LOCATION--Lat 31°31'46", long 83°49'16", Hydrologic Unit 03110204, near water tank, behind VFW on U.S. Highway 82 east, Sylvester, Ga.

Owner: City of Sylvester.

AQUIFER.--Upper Floridan aquifer.

WELL CHARACTERISTICS.--Drilled unused municipal well, diameter 18 in., depth 450 ft, cased to 212 ft, open hole.

INSTRUMENTATION.--Water-level recorder.

DATUM.--Elevation of land-surface is 433 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

Measuring point: Floor of recorder shelter, 2.90 ft above land-surface datum.

REMARKS.--Well pumped and sounded July 19, 1978. Borehole geophysical survey conducted June 5, 1975.

PERIOD OF RECORD.--May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 191.50 ft below land-surface datum, May 17, 1973; lowest, 205.88 ft below land-surface datum, Aug. 26, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203.50	203.47	203.60	203.58	203.25	202.98	202.70	203.08	203.93	204.18	204.73	205.56
2	203.54	203.45	203.53	203.80	203.15	202.78	202.60	203.18	203.96	204.14	204.86	205.55
3	203.59	203.52	203.52	203.74	203.10	202.65	202.52	203.33	203.88	204.27	204.91	205.50
4	203.58	203.57	203.50	203.61	202.93	202.81	202.54	203.38	203.74	204.37	204.90	205.54
5	203.58	203.59	203.34	203.53	203.15	202.94	202.58	203.27	203.76	204.34	204.90	205.52
6	203.59	203.53	203.31	203.42	203.23	203.04	202.59	203.27	203.88	204.26	204.82	205.39
7	203.53	203.39	203.34	203.29	203.13	203.22	202.73	203.40	203.89	204.24	204.82	205.29
8	203.48	203.25	203.18	203.20	203.17	203.34	202.89	203.45	203.90	204.33	204.85	205.28
9	203.62	203.21	203.22	203.35	203.01	203.29	202.93	203.30	203.87	204.40	204.89	205.29
10	203.60	203.39	203.43	203.35	202.77	203.28	202.77	203.34	203.79	204.39	204.93	205.29
11	203.62	203.52	203.44	203.26	202.90	203.29	202.62	203.61	203.75	204.38	205.07	205.29
12	203.66	203.60	203.23	203.20	203.16	203.35	202.80	203.62	203.82	204.37	205.15	205.28
13	203.65	203.61	203.42	203.50	203.24	203.31	202.87	203.55	203.91	204.27	205.12	205.26
14	203.57	203.51	203.62	203.56	203.22	203.17	202.74	203.58	203.83	204.19	205.12	205.17
15	203.54	203.31	203.48	203.57	203.11	203.12	202.54	203.61	203.72	204.33	205.20	204.97
16	203.54	203.27	203.54	203.58	203.02	203.06	202.56	203.66	203.72	204.45	205.24	204.87
17	203.51	203.57	203.65	203.52	203.14	202.97	202.59	203.50	203.83	204.50	205.29	205.00
18	203.42	203.71	203.64	203.44	203.18	203.11	202.78	203.46	203.82	204.47	205.38	205.11
19	203.49	203.76	203.55	203.39	203.02	203.08	203.01	203.41	203.71	204.44	205.43	205.04
20	203.64	203.57	203.61	203.31	203.10	203.13	203.00	203.37	203.77	204.39	205.46	204.99
21	203.66	203.37	203.62	203.23	203.15	203.18	202.86	203.39	203.87	204.36	205.46	204.96
22	203.68	203.30	203.71	203.32	202.86	203.18	202.67	203.39	203.87	204.30	205.48	204.88
23	203.72	203.43	203.76	203.31	202.70	203.19	202.68	203.48	203.77	204.25	205.52	204.89
24	203.71	203.70	203.76	203.21	202.95	203.16	202.77	203.51	203.81	204.25	205.61	205.05
25	203.66	203.63	203.63	203.12	203.23	203.15	202.85	203.54	203.91	204.27	205.75	205.00
26	203.62	203.47	203.51	203.40	203.38	203.10	202.85	203.46	203.94	204.35	205.88	204.95
27	203.60	203.44	203.55	203.52	203.32	203.11	202.81	203.32	203.99	204.40	205.81	204.97
28	203.53	203.43	203.60	203.43	203.12	203.07	202.72	203.26	204.11	204.39	205.69	205.06
29	203.44	203.55	203.62	203.15	---	202.94	202.85	203.41	204.23	204.46	205.56	205.05
30	203.33	203.63	203.57	203.17	---	202.83	202.97	203.65	204.26	204.52	205.47	205.00
31	203.36	---	203.38	203.28	---	202.71	---	203.81	---	204.59	205.50	---
MEAN	203.57	203.49	203.51	203.40	203.10	203.08	202.75	203.44	203.87	204.35	205.25	205.17
WTR YR 1990		MEAN	203.75	HIGH	202.52	LOW	205.88					

CHEMICAL QUALITY OF PRECIPITATION

TIFT COUNTY

312825083315950 TIFTON-AGRICULTURAL RESEARCH SERVICE STATION NEAR TIFTON, GA.

(National Atmospheric Deposition Program network station)

(National Trends Network station)

LOCATION.--Lat 31°28'25", long 83°31'59", Tift County, Hydrologic Unit 03110204, at the Southeastern Watershed Research Laboratory, U.S. Department of Agriculture, Agricultural Research Service, 0.9 mi west-southwest of the intersection of Interstate Highway 75 and U.S. Highway 41 near Tifton, Georgia.

PERIOD OF RECORD.--October 1983 to current year (weekly composite wet precipitation).

INSTRUMENTATION.--Wet/dry precipitation collector and recording rain gage.

REMARKS.--Chemical analyses reported are for wet precipitation medium code "7". Standard NADP/NTN protocol dictates that during periods of collector malfunction involving either the sensor or drive motor, the wet/dry collector should be left in "bulk" mode, i.e., the "wet" side bucket is left uncovered for the sampling period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	MEDIUM CODE	TOTAL PRECIP- ITATION FOR DEFINED PERIOD (IN)	VOLUME ATM DEP WET (L)	COL- LECTOR EFFI- CIENCY WET DEPOS. PERCENT	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)
OCT									
03-10	1300	7	0.12	0.208	100	50	44	4.02	4.18
10-17	1300	7	<0.01	0.043	--	--	48	--	4.22
17-24	1300	7	1.49	0.003	98	9	9	4.60	4.83
24-31	1300	7	<0.01	0.002	--	--	--	--	--
OCT 31-									
NOV 07	1400	7	0.13	0.208	93	16	14	4.48	4.83
NOV									
07-14	1400	7	0.92	--	--	5	5	4.82	5.19
14-21	1400	7	0.32	0.564	102	29	--	6.87	--
21-28	1400	7	0.22	0.435	115	7	15	5.28	6.54
NOV 28-									
DEC 05	1400	7	0.78	1.394	104	6	8	5.10	6.55
DEC									
05-12	1400	7	2.28	3.743	95	5	5	4.73	5.09
12-19	1400	7	1.81	2.759	88	14	13	4.33	4.63
19-26	1400	7	0.67	1.163	101	7	5	4.77	5.11
DEC 26									
1989-									
JAN 02									
1990	1400	7	2.13	0.004	101	5	4	4.73	5.32

TIFT COUNTY

312825083315950 TIFTON-AGRICULTURAL RESEARCH SERVICE STATION NEAR TIFTON, GA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	MEDIUM CODE	TOTAL PRECIP- ITATION FOR DEFINED PERIOD (IN)	VOLUME ATM DEP WET (L)	COL- LECTOR EFFI- CIENCY WET DEPOS. PERCENT	SPE- CIFIC CON- DUCT- ANCE (US/CM)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)
JAN									
02-09	1400	7	2.73	4.670	99	4	4	4.61	5.15
09-16	1400	7	<0.01	0.004	--	--	--	--	--
16-23	1400	7	0.48	0.792	96	10	7	4.85	5.41
23-30	1400	7	1.44	2.548	103	8	7	4.75	5.10
JAN 30- FEB 06	1400	7	0.37	0.307	--	25	22	4.40	4.68
FEB									
06-13	1400	7	0.78	1.417	105	8	8	4.86	5.07
13-20	1400	7	1.53	2.644	100	10	9	4.61	4.92
20-27	1400	7	0.63	0.968	89	9	7	5.00	5.24
FEB 27- MAR 06	1400	7	0.06	0.083	80	16	9	4.47	5.44
MAR									
06-13	1400	7	<0.01	0.002	--	--	--	--	--
13-20	1400	7	1.77	3.079	101	5	3	5.01	5.61
20-27	1400	7	<0.01	0.003	--	--	--	--	--
MAR 27- APR 03	1400	7	0.87	1.539	103	8	7	--	5.15
APR									
03-10	1300	7	0.55	1.036	109	10	10	--	4.86
10-17	1300	7	0.33	0.622	109	13	12	--	4.85
17-24	1300	7	0.01	0.008	47	--	67	--	6.44
APR 24- MAY 01	1300	7	--	0.250	--	22	19	4.57	4.72
MAY									
01-08	1300	7	0.01	0.025	149	--	24	--	6.16
08-15	1300	7	0.30	0.510	98	15	17	4.64	4.73
15-22	1300	7	0.68	1.314	112	10	6	4.73	5.38
22-29	1335	7	0.42	0.800	110	9	6	4.69	5.14
MAY 29- JUN 05	1300	7	0.34	0.662	113	19	12	4.39	4.78
JUN									
05-12	1300	7	1.41	2.569	106	17	19	4.49	4.45
12-19	1300	7	0.75	1.349	104	18	20	4.36	4.45
19-26	1300	7	0.03	0.077	150	24	14	4.46	6.13
JUN 26- JUL 03	1300	7	0.01	0.00	27	--	--	--	--
JUL									
03-10	1300	7	--	2.435	--	25	24	4.49	4.47
10-17	1300	7	1.48	2.679	105	8	13	5.52	4.78
17-24	1300	7	0.73	1.248	99	12	11	4.65	4.73
24-31	1300	7	0.00	0.00	--	--	2	--	5.69
JUL 31- AUG 07	1300	7	2.69	4.589	99	13	14	4.56	4.62
AUG									
07-14	1300	7	0.03	0.074	143	7	51	3.86	4.15
14-21	1300	7	<0.01	0.00	--	--	3	--	5.63
21-28	1300	7	0.02	0.060	173	--	66	--	3.99
AUG 28- SEP 04	1300	7	0.38	0.781	119	59	62	3.94	3.95
SEP									
04-11	1300	7	--	2.170	--	71	68	3.81	3.90
11-18	1300	7	0.42	0.742	102	16	16	4.51	4.54
18-25	1300	7	0.00	0.00	--	--	2	--	5.59
SEP 25- OCT 02	1300	7	0.07	0.133	110	27	17	4.32	4.68

TIFT COUNTY

312825083315950 TIFTON-AGRICULTURAL RESEARCH SERVICE STATION NEAR TIFTON, GA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	MEDIUM CODE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	PHOS- PHATE, DIS- SOLVED (MG/L AS PO4)
OCT										
03-10	7	0.210	0.112	0.855	0.074	4.79	1.38	2.29	0.590	<0.020
10-17	7	0.230	0.184	1.50	0.108	5.68	1.99	2.39	0.330	0.060
17-24	7	0.030	0.008	0.050	0.009	0.70	0.09	0.53	0.070	<0.020
OCT 31- NOV 07	7	0.230	0.037	0.156	0.044	1.91	0.22	1.29	0.360	<0.020
NOV										
07-14	7	0.050	0.012	0.092	0.009	0.32	0.16	0.40	0.050	<0.020
21-28	7	0.600	0.463	0.227	2.25	0.70	0.46	<0.03	<0.020	0.050
NOV 28- DEC 05	7	0.510	0.314	0.055	0.730	0.48	0.13	0.04	<0.020	<0.020
DEC										
05-12	7	0.010	0.007	0.045	0.008	0.35	0.07	0.24	0.040	<0.020
12-19	7	0.050	0.032	0.195	0.025	1.15	0.33	0.80	0.160	<0.020
19-26	7	0.030	0.008	0.037	0.006	0.57	0.06	0.26	0.050	<0.020
DEC 26 1989- JAN 02 1990	7	0.020	0.015	0.134	0.011	0.30	0.23	0.21	0.030	<0.020

TIFT COUNTY

312825083315950 TIFTON-AGRICULTURAL RESEARCH SERVICE STATION NEAR TIFTON, GA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	MEDIUM CODE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	PHOS- PHATE, DIS- SOLVED (MG/L AS PO4)
JAN										
02-09	7	<0.010	0.007	0.058	0.005	0.37	0.11	0.17	0.060	<0.020
16-23	7	0.060	0.052	0.421	0.030	0.52	0.76	0.33	0.080	<0.020
23-30	7	0.040	0.039	0.282	0.018	0.56	0.47	0.29	0.080	<0.020
JAN 30-										
FEB 06	7	0.270	0.122	0.889	0.156	2.20	1.40	1.57	0.230	<0.020
FEB										
06-13	7	0.070	0.037	0.278	0.031	0.66	0.44	0.43	0.110	<0.020
13-20	7	0.070	0.041	0.317	0.024	0.72	0.55	0.47	0.120	<0.020
20-27	7	0.070	0.040	0.266	0.106	0.72	0.46	0.41	0.170	<0.020
FEB 27-										
MAR 06	7	0.090	0.068	0.482	0.076	1.07	0.87	0.79	0.050	<0.020
MAR										
13-20	7	0.060	0.025	0.150	0.064	0.25	0.24	0.18	0.030	<0.020
MAR 27-										
APR 03	7	0.070	0.030	0.089	0.183	0.75	0.16	0.64	0.130	<0.020
APR										
03-10	7	0.050	0.040	0.243	0.074	1.12	0.34	0.53	0.130	<0.020
10-17	7	0.120	0.049	0.354	0.026	1.07	0.59	0.86	0.130	<0.020
17-24	7	0.470	0.241	1.60	<0.042	2.69	3.11	1.98	0.570	<0.280
APR 24-										
MAY 01	7	0.590	0.121	0.739	0.050	1.74	1.27	2.16	<0.020	0.030
MAY										
01-08	7	0.380	0.214	1.15	0.193	2.88	2.00	2.25	0.910	<0.070
08-15	7	0.200	0.103	0.815	0.035	1.40	1.38	1.24	0.170	<0.020
15-22	7	0.080	0.020	0.126	0.063	0.49	0.25	0.60	0.160	<0.020
22-29	7	0.060	0.022	0.079	0.045	0.59	0.16	0.75	0.130	<0.020
MAY 29-										
JUN 05	7	0.110	0.034	0.169	0.054	1.07	0.25	0.86	0.170	<0.020
JUN										
05-12	7	0.080	0.015	0.087	0.029	1.76	0.14	1.00	0.250	<0.020
12-19	7	0.050	0.013	0.054	0.036	1.82	0.12	0.89	0.240	<0.020
19-26	7	0.160	0.061	0.204	0.065	1.49	0.42	3.21	0.110	<0.020
JUL										
03-10	7	0.140	0.076	0.151	0.321	2.69	0.30	1.78	0.520	<0.020
10-17	7	0.090	0.041	0.146	0.454	1.26	0.33	0.92	0.250	<0.020
17-24	7	0.060	0.017	0.094	0.037	0.86	0.19	0.83	0.070	<0.020
24-31	7	0.010	<0.003	0.030	0.007	0.05	0.17	0.13	0.120	<0.020
JUL 31-										
AUG 07	7	0.050	0.013	0.060	0.018	1.11	0.13	0.83	0.170	<0.020
AUG										
07-14	7	0.400	0.064	0.135	0.067	6.14	0.34	5.09	0.730	<0.020
14-21	7	0.020	0.007	0.052	0.010	0.11	0.14	0.24	0.090	0.190
21-28	7	0.480	0.099	0.548	0.247	7.08	0.64	5.68	0.900	0.310
AUG 28-										
SEP 04	7	0.220	0.043	0.139	0.067	5.78	0.29	3.35	0.610	<0.020
SEP										
04-11	7	0.100	0.019	0.034	0.027	7.08	0.14	2.13	0.770	<0.020
11-18	7	0.110	0.049	0.194	0.025	0.97	0.30	1.44	0.030	<0.020
18-25	7	0.010	<0.003	0.029	<0.003	0.04	0.05	0.23	0.110	<0.020
SEP 25-										
OCT 02	7	0.140	0.069	0.421	0.092	1.91	0.79	1.81	0.200	<0.020

INDEX

	Page		Page
Abbeville, Ocmulgee River at.....	169	Bacteria, definition of.....	17
Access to WATSTORE data.....	16	Bainbridge, Flint River at.....	392
Acre-foot, definition of.....	17	Flint River below.....	393-394
Adenosine triphosphate, definition of.....	17	Baxley, Altamaha River near.....	197-149
Alapaha, Alapaha River near.....	256	Beaver Creek near Cobbtown.....	507
Alapaha River at Statenville.....	3,257-259	Beaverdam Creek (tributary to Savannah River)	
near Alapaha.....	256	above Elberton.....	43
Albany, Emily Avenue Canal at.....	511	Beaverdam Creek (tributary to Brier Creek)	
Flint River at.....	374-377	near Sardis.....	72
Kinchafoonee Creek tributary at.....	511	Bed load, definition of.....	20
Kinchafoonee Creek tributary No. 2 at.....	511	Bed load discharge, definition of.....	20
Percosin Creek tributary at.....	512	Bed material, definition of.....	17
Alcovy River above Covington.....	141	Bell, Broad River near.....	2,44-46
above Stewart.....	142	Bemiss, Withlacoochee River	
Algae, definition of.....	17	at McMillan Road, near.....	261
Algal growth potential, definition of.....	17	Big Creek near Alpharetta.....	289
Alkalinity, definition of.....	17	Big Sandy Creek tributary near Irwinton.....	506
Allatoona Reservoir near Cartersville, contents of.....	494	Biochemical oxygen demand, definition of.....	17
Alpharetta, Big Creek near.....	289	Biomass, definition of.....	17
Altamaha River at Doctortown.....	204-205	Black Creek near Blitchton.....	117
near Baxley.....	197-199	Blakely, Temple Creek near.....	510
near Everett City.....	210-214	Blitchton, Black Creek near.....	117
near Gardi.....	206-207	Blue-green algae, definition of.....	20
near Jesup.....	203	Blue Ridge, Blue Ridge Lake near, contents of.....	503
Altamaha River Basin,		Blue Ridge Lake near Blue Ridge, contents of.....	503
crest-stage partial-record stations in.....	505-507	Bluff Springs Branch near Lumpkin.....	510
gaging-station records in.....	123-214	Bonaire, Ocmulgee River near.....	167
lakes and reservoirs in.....	215-216	Bostwick, Apalachee River near.....	181-182
peak discharge at miscellaneous sites in.....	514	Bottom material, definition of.....	17
Apalachee River near Bostwick.....	181-182	Boulogne, Fla., St Marys River at.....	248
Apalachicola River Basin,		Bowdon, Little Tallapoosa River below.....	490-491
crest-stage partial-record stations in.....	509-512	Brier Creek (Savannah River Basin)	
gaging-station records in.....	276-395	at Millhaven.....	69-71
lakes in.....	396-400	near Thomson.....	66
peak discharge at miscellaneous sites in.....	514	near Waynesboro.....	68
Appling, Kiokee Creek at.....	504	Brier Creek (Tennessee River Basin)	
Aquifer, definition of.....	17	near Hiawassee.....	496-497
Arcade, Middle Oconee River near.....	175	Bristol, Crooked Creek tributary near.....	507
Armuchee, Heath Creek below Rocky Mountain		Broad River near Bell.....	2,44-46
Dam site, near.....	435	Brooklyn Creek at Athens.....	506
Arnold Creek tributary near Tifton.....	508	Bruces Branch at Thomasville.....	509
Artesian, definition of.....	17	tributary at Thomasville.....	509
Artificial substrate, definition of.....	21	Brunswick, Brunswick River at Jekyll Island,	
Ash mass, definition of.....	17	near.....	223-224
Athens, Brooklyn Creek at.....	506	East River at Mayors Point Terminal at.....	219-220
Middle Oconee River near.....	176	Makay River at Torras Causeway near.....	225-226
North Oconee River above.....	177	South Brunswick River at Colonels	
Tanyard Creek at.....	506	Island near.....	221-222
Atkinson, Satilla River at.....	234-238	Turtle River at Georgia Highway 303 at.....	217-218
Satilla River tributary No. 2 at.....	507	Brunswick River at Village Pier at	
Atlanta, Chattahoochee River at.....	295	St. Simons Island.....	227-228
Chattahoochee River at I-285, at.....	301-302	at Jekyll Island, near Brunswick.....	223-224
Chattahoochee River at State Highway 280, near.....	300	Brunswick River Basin, gaging-station	
North Fork Peachtree Creek tributary near.....	509	records in.....	217-228
Peachtree Creek at.....	296-299	Brushy Creek near Wrens.....	67
Shoal Creek near.....	505	Buck Creek near Ellaville.....	511
Shoal Creek tributary near.....	505	tributary near Tazewell.....	511
South Fork Peachtree Creek tributary near.....	509	Buffalo Creek (Altamaha River Basin)	
South River at.....	123	near Linton.....	506
Augusta, Butler Creek at levee, at.....	53	Buffalo Creek (Savannah River Basin)	
Raes Creek tributary No. 1 at.....	504	near Lexington.....	504
Rocky Creek tributary at.....	504	Buford, Chattahoochee River at Buford Dam, near.....	284-285
Savannah River at.....	54-56	Lake Sidney Lanier near, contents of.....	396
Savannah River below Spirit Creek, near.....	57	Bull Creek tributary at Columbus.....	510
Austell, Sweetwater Creek near.....	303-305	Bullard, Savage Creek near.....	506

Butler, Whitewater Creek near.....	511
Butler Creek at Fort Gordon.....	51-52
at levee, at Augusta.....	53
Byromville, Turkey Creek at.....	364-366
Calhoun, Coosawattee River near.....	410
Calhoun Falls, S.C., Richard B. Russell Reservoir, contents of.....	107
Calvary, Ochlockonee River near.....	274-275
Camp Creek tributary near Stockbridge.....	505
Canoochee River near Claxton.....	118-119
near Richmond Hill.....	120
Canton, Etowah River at.....	3,441-444
Carters, Carters Lake near, contents of.....	492
Carters Re-regulation Dam near, contents of.....	493
Coosawattee River at.....	408
Carters Lake near Carters, contents of.....	492
Carters Re-regulation Dam near Carters, contents of.....	493
Cartersville, Allatoona Reservoir near, contents of.....	494
Etowah River at Allatoona Dam, above.....	445-446
Etowah River near.....	447-451
Cedar Creek (Apalachicola River Basin) near Rupert.....	511
Cedar Creek (Mobile River Basin) at Cedartown.....	470
near Cedartown.....	471-472
Cedartown, Cedar Creek at.....	470
Cedar Creek near.....	471-472
Cells/volume, definition of.....	17
Cemochechobee Creek near Coleman.....	510
Cfs-day, definition of.....	17
Chamblee, North Fork Peachtree Creek tributary near.....	509
Charlton County, ground-water levels in.....	521
Chatham County, ground-water levels in.....	522-526
Chatsworth, Holly Creek near.....	2,415
Chattahoochee, Fla., Lake Seminole at, contents of.....	400
Chattahoochee River above Roswell.....	288
at Atlanta.....	295
at Buford Dam, near Buford.....	284-285
at Capps Ferry bridge, near Rico.....	317
at Columbus.....	336-338
at Franklin.....	325-326
at Helen.....	276
at I-285, at Atlanta.....	301-302
at Langdale, Ala.....	335
at Morgan Falls Dam, at Sandy Springs.....	290-292
at Nacoochee.....	277
at State Highway 280, near Atlanta.....	300
at West Point.....	330-332
near Columbia, Ala.....	340-343
near Cornelia.....	278-281
near Fairburn.....	306-316
near La Grange.....	328-329
near Norcross.....	287
near Steam Mill.....	344-345
near Whitesburg.....	321-324
Chattooga River (Mobile River Basin) at Chattoogaville.....	487-488
at Summerville.....	2,484-486
Chattooga River (Savannah River Basin) near Clayton.....	31-34
Chattoogaville, Chattooga River at.....	487-488
Chauncey, Gum Swamp Creek near.....	506
Chemical oxygen demand, definition of.....	18
Chestatee River near Dahlonaga.....	282-283
Chlorophyll, definition of.....	18
Choctahatchee Creek tributary near Plains.....	511
Clarks Hill, S.C., Thurmond Lake near, contents of.....	108
Claxton, Canoochee River near.....	118-119
Clayton, Chattooga River near.....	31-34
Lake Burton near, contents of.....	105
Stekoa Creek below.....	35
Tallulah River near.....	36-40
Clyattville, Withlacoochee River near.....	269-270
Clyo, Savannah River near.....	73-80
Cobbtown, Beaver Creek near.....	507
Coleman, Cemochechobee Creek near.....	510
Coleoatchee Creek near Manchester.....	511

Collection and computation of stage and water-discharge data.....	10-11
Collection of water-quality data.....	13
Collection and computation of ground-water level data.....	15
Collector efficiency, definition of.....	18
Color unit, definition of.....	18
Colquitt, Spring Creek at.....	512
Columbia, Ala., Chattahoochee River near.....	340-343
Columbus, Bull Creek tributary at.....	510
Chattahoochee River at.....	336-338
Lake Harding near, contents of.....	398
Lindsey Creek tributary at.....	510
Mill Branch at.....	510
Upatoi Creek near.....	2,339
Conasauga River at Tilton.....	2,416-427
near Dalton.....	413-414
near Dawnville.....	512
near Eton.....	411
near Resaca.....	428
Conley Creek near Forest Park.....	505
Contents, definition of.....	18
Control, definition of.....	18
Control structure, definition of.....	18
Cook County, ground-water levels in.....	527
Coolidge, Ochlockonee River near.....	508
Ochlockonee River tributary near.....	508
Cooperation.....	1
Coosa, Coosa River near.....	473-482
Coosa River near Coosa.....	473-482
near Rome.....	463-469
Coosawattee River at Carters.....	408
near Calhoun.....	410
near Ellijay.....	401
near Pine Chapel.....	409
Corinth, New River near.....	327
Cornelia, Chattahoochee River near.....	278-281
Covington, Alcovy River above.....	141
Crandall, Mill Creek near.....	412
Crooked Creek tributary (Satilla River Basin) near Bristol.....	507
tributary No. 2 (Chattahoochee River Basin) near Norcross.....	509
Crooked River Basin gaging-station records in.....	239-245
Cubic foot per second, definition of.....	18
Cubic feet per second per square mile, definition of.....	18
Culloden, Flint River near.....	2,356-358
Cumberland Sound at Dungeness Dock near St Marys.....	239-245
Cusseta, Ochillee Creek near.....	510
Dahlonaga, Chestatee River near.....	282-283
Dallas, McClendon Creek tributary near.....	513
Dalton, Conasauga River near.....	413-414
Davisboro, Williamson Swamp Creek at.....	109-110
Dawnville, Conasauga River near.....	512
Dawson, Kinchafoonee Creek near.....	372
Dawsonville, Etowah River near.....	439-440
Decatur County, ground-water levels in.....	528
Definition of terms.....	17-22
Dial, Toccoa River near.....	498
Diatoms, definition of.....	20
Dillard, Little Tennessee River near.....	495
Discharge, definition of.....	18
Dissolved, definition of.....	18
Dissolved-solids concentration, definition of.....	18
Doctortown, Altamaha River at.....	204-205
Dougherty County, ground-water levels in.....	529-531
Downstream order system.....	9
Drainage area, definition of.....	18
Drainage basin, definition of.....	18
Dry mass, definition of.....	17
Dublin, Oconee River at.....	191-192
Oconee River at I-16, near.....	193-194
Turkey Creek near.....	506
Dudley, Rocky Creek near.....	195
Dukes Bay Canal at Valdosta.....	507

East Point, South Utoy Creek tributary at.....	509
East River at Mayors Point Terminal at Brunswick.....	219-220
Eatonton, Lake Oconee near, contents of.....	215
Little River near.....	183-184
Murder Creek below.....	185-186
Ebenezer Creek at Springfield.....	81
Eden, Ogeechee River near.....	112-116
Edison, Pachitla Creek near.....	386
Elberton, Beaverdam Creek above.....	43
Ellaville, Buck Creek near.....	511
Ellijay, Coosawattee River near.....	401
Emily Avenue Canal at Albany.....	511
Eton, Conasauga River near.....	411
Pinhook Creek near.....	512
Etowah River at Allatoona Dam, above Cartersville.....	445-446
at Canton.....	3,441-444
at Euharlee.....	452-456
at Rome.....	461-462
near Cartersville.....	447-451
near Dawsonville.....	439-440
near Euharlee.....	457-458
near Kingston.....	459
tributary near Rome.....	512
Euharlee Creek at Rockmart.....	512
Euharlee, Etowah River at.....	452-456
Etowah River near.....	457-458
Everett City, Altamaha River near.....	210-214
Explanation of records.....	9-16
Fairburn, Chattahoochee River near.....	306-316
Fairplay, Hurricane Creek tributary near.....	509
Falling Creek near Juliette.....	145-149
Fargo, Suwannee River at.....	2,252-255
Fausett Creek near Talking Rock.....	402
Fayetteville, Flint River near.....	347
Fecal coliform bacteria, definition of.....	17
Fecal streptococcal bacteria, definition of.....	17
Flat Shoal Creek near West Point.....	510
Flint River above Griffin.....	350-351
at Albany.....	374-377
at Bainbridge.....	392
at Montezuma.....	359-363
at Newton.....	380-385
at State Highway 32, near Oakfield.....	369
below Bainbridge.....	393-394
near Culloden.....	2,335-358
near Fayetteville.....	347
near Griffin.....	352-353
near Inman.....	349
near Jonesboro.....	346
near Lovejoy.....	348
near Putney.....	378-379
near Thomaston.....	355
near Vienna.....	367-368
Folsom Creek tributary near Rochelle.....	506
Forest Park, Conley Creek near.....	505
Fort Gaines, Walter F. George Lake near, contents of.....	399
Fort Gordon, Butler Creek at.....	51-52
Fort Pulaski, Savannah River at.....	103-104
Franklin, Chattahoochee River at.....	325-326
Fulton County, ground-water levels in.....	532
Gage height, definition of.....	18
Gaging station, definition of.....	18
list of active and discontinued.....	515-520
Gardi, Altamaha River near.....	206-207
Geneva, Juniper Creek near.....	510
Glynn County, ground-water levels in.....	533
Grange, Rocky Comfort Creek near.....	504
Graph showing permitted water withdrawal for water year 1990, by use category.....	7
Gray, Walnut Creek near.....	154
Graysville, South Chickamauga Creek at.....	499
Green algae, definition of.....	20
Griffin, Flint River above.....	350-351
Flint River near.....	352-353

Gross, Fla., St Marys River near.....	249-251
Ground water, summary of hydrologic conditions.....	4
Ground-water levels, data collection and computation of.....	15
data presentation of.....	15
explanation of records of.....	14-15
list of records published in this report, by county.....	x
Gum Swamp Creek near Chauncey.....	506
Halfmoon Landing, North Newport River at.....	121-122
Hardness, definition of.....	18
Hardwick, Oconee River near.....	189
Harrisburg Creek near Hawkins.....	2,512
Hartwell, Hartwell Lake near, contents of.....	106
Savannah River below Hartwell Lake, near.....	41
Hartwell Lake near Hartwell, contents of.....	106
Hawkins, Harrisburg Creek near.....	2,512
Hawkinsville, Tucsawhatchee Creek.....	168
Heath Creek below Rocky Mountain Damsite, near Armuchee.....	435
Helen, Chattahoochee River at.....	276
Hiawassee, Brier Creek near.....	496-497
Hinton, Scarecorn Creek above.....	403-404
Scarecorn Creek at.....	405-406
Talking Rock Creek near.....	407
Hoboken, Satilla River near.....	231-232
Holly Creek near Chatsworth.....	2,415
Horsehead Creek near Montezuma.....	511
Hurricane Creek tributary near Fairplay.....	509
Hydrologic bench-mark network, explanation of.....	9
definition of.....	18
Hydrologic conditions, summary of.....	2-8
Hydrologic conditions, graph of surface water.....	3
Hydrologic unit, definition of.....	18
Ichawaynochaway Creek at Milford.....	387-391
Inman, Flint River near.....	349
Instantaneous discharge, definition of.....	18
Introduction.....	1
Iron City, Spring Creek near.....	395
Irwinton, Big Sandy Creek tributary near.....	506
Iva, S.C., Savannah River near.....	42
Ivlog, Nottely Lake near, contents of.....	502
Jackson Creek near Lilburn.....	505
tributary No. 1 near Lilburn.....	505
tributary No. 2 near Lilburn.....	505
Jackson, Lloyd Shoals Reservoir near, contents of.....	215
Ocmulgee River near.....	143-144
Jackson, S.C., Savannah River near.....	58-60
Jesup, Altamaha River near.....	203
Penholoway Creek near.....	208-209
Jewell, Ogeechee River at.....	504
Jonesboro, Flint River near.....	346
Juliette, Falling Creek near.....	145-149
Juniper, Pine Knot Creek near.....	510
Juniper Creek near Geneva.....	510
Kettle Creek near Washington.....	47
Kinchafoonee Creek at Preston.....	370-371
near Dawson.....	372
tributary at Albany.....	511
tributary No. 2 at Albany.....	511
Kingston, Etowah River near.....	459
Two Run Creek near.....	2,460
Kiokee Creek at Appling.....	504
LaGrange, Chattahoochee River near.....	328-329
Lake Burton near Clayton, contents of.....	105
Lake Harding near Columbus, contents of.....	398
Lake Oconee near Eatonton, contents of.....	215
Lake Seminole at Chattahoochee, Fla., contents of.....	400

Lake Sidney Lanier near Buford, contents of.....	396	McRae, Turnpike Creek near.....	174
Lakes and Reservoirs:		Macon, Ocmulgee River near.....	246-247
Allatoona Reservoir, contents of.....	494	Ocmulgee River above.....	150-151
Blue Ridge Lake, contents of.....	503	Ocmulgee River at.....	152-153
Burton Lake, contents of.....	105	Tobesofkee Creek near.....	155
Carters Lake, contents of.....	492	Makay River at Torras Causeway, near Brunswick.....	225-226
Carters Re-regulation Dam, contents of.....	493	Manchester, Coleoatchee Creek near.....	511
Harding Lake, contents of.....	398	Mann Creek tributary near Tallapoosa.....	513
Hartwell Lake, contents of.....	106	Map showing location of crest-stage partial-	
Lloyd Shoals Reservoir, contents of.....	215	record gaging stations.....	26
Mathis Reservoir, contents of.....	105	Map showing location of gaging stations.....	25
Nottely Lake, contents of.....	502	Map showing location of ground-water level	
Oconee Lake, contents of.....	215	observation wells.....	28
Richard B. Russell Reservoir, contents of.....	107	Map showing location of water-quality	
Seminole, Lake, contents of.....	400	sampling stations.....	27
Sidney Lanier, Lake, contents of.....	396	Map showing permitted water withdrawal for	
Sinclair Reservoir, contents of.....	216	water year 1990, by county;	
Thurmond Lake, contents of.....	108	(a) public supply, (b) industrial,	
Walter F. George Lake, contents of.....	399	(c) thermoelectric.....	8
West Point Lake, contents of.....	397	Marietta, Sope Creek near.....	293-294
Lakemont, Mathis Reservoir near, contents of.....	105	Martinez, Savannah River near.....	50
Lakeview, West Chickamauga Creek near.....	500	Mathis Reservoir near Lakemont, contents of.....	105
Land surface datum, definition of.....	18	Mean concentration, definition of.....	21
Langdale, Ala., Chattahoochee River at.....	335	Mean discharge, definition of.....	18
Latitude-longitude system.....	10	Measuring point, definition of.....	18
Laurens County, ground-water levels in.....	534	Metamorphic stage, definition of.....	19
Lazar Creek near Talbotton.....	511	Methylene blue active substances, definition of.....	19
Leesburg, Muckalee Creek at State Highway 195,		Micrograms per gram, definition of.....	19
near.....	373	Micrograms per liter, definition of.....	19
Lexington, Buffalo Creek near.....	504	Middle Oconee River near Arcade.....	175
Liberty County, ground-water levels in.....	535-536	near Athens.....	176
Lilburn, Jackson Creek near.....	505	Milford, Ichawaynochaway Creek at.....	387-391
Jackson Creek tributary No.1 near.....	505	Mill Branch at Columbus.....	510
Jackson Creek tributary No. 2 near.....	505	Mill Creek (Mobile River Basin) near Crandall.....	412
Limehouse, S.C.,		Mill Creek (Ogeechee River Basin) near Pembroke.....	505
Little Back River above Lucknow Canal, near.....	92	Milledgeville, Oconee River at.....	187-188
Little Back River near.....	96-100	Sinclair Reservoir near, contents of.....	216
Little Back River at U.S. Fish and Wildlife		Miller County, ground-water levels in.....	540
Dock, near.....	101-102	Millett, S.C., Savannah River below Steel Creek,	
Lucknow Canal near.....	93-95	near.....	61-62
Lindsey Creek tributary at Columbus.....	510	Millhaven, Brier Creek at.....	69-71
Line Creek near Senoia.....	354	Savannah River at Burtons Ferry Bridge, near.....	64-65
Linton, Buffalo Creek near.....	506	Milligrams per liter, definition of.....	19
Lithonia, South River at Klondike Road, near.....	125-132	Milstead, Yellow River at.....	138
South River near.....	124	Mobile River Basin,	
Little Back River above Lucknow Canal, near		crest-stage partial-record stations in.....	512-513
Limehouse, S.C.....	92	gaging-station records in.....	401-491
at U.S. Fish and Wildlife Dock,		lakes and reservoirs in.....	492-494
near Limehouse, S.C.....	101-102	Montezuma, Flint River at.....	359-363
near Limehouse, S.C.....	96-100	Horsehead Creek near.....	511
Little River (Altamaha River Basin) near Eatonton.....	183-184	Mossy Creek near Perry.....	506
Little River (Savannah River Basin) near		Moultrie, Little Ochlockonee River near.....	508
Washington.....	48-49	Ochlockonee River near.....	271
Little River (Suwannee River Basin) near		Ochlockonee River tributary at.....	508
Statenville.....	507	Okapilco Creek tributary at.....	508
Little Ochlockonee River near Moultrie.....	508	tributary of Ochlockonee River tributary at.....	508
Little Ohoopie River near Swainsboro.....	507	Mount Vernon, Oconee River near.....	196
Little Satilla River near Offerman.....	233	Muckalee Creek at State Highway 195, near Leesburg.....	373
Little Tallapoosa River below Bowdon.....	490-491	Mulberry Creek near Mulberry Grove.....	510
Little Tennessee River near Dillard.....	495	Mulberry Grove, Mulberry Creek near.....	510
Lloyd Shoals Reservoir near Jackson,		Mulberry River near Winder.....	506
contents of.....	215	tributary near Winder.....	506
Long Cane Creek near West Point.....	333-334	Murder Creek below Eatonton.....	185-186
Long County, ground-water levels in.....	537		
Lookout Creek near New England.....	501	Nacoochee, Chattahoochee River at.....	277
Louisville, Spring Creek near.....	505	National Geodetic Vertical Datum of 1929,	
Lovejoy, Flint River near.....	348	definition of.....	19
Lowndes County, ground-water levels in.....	538	National stream-quality accounting network,	
Lucknow Canal near Limehouse, S.C.....	93-95	explanation of.....	9
Lumber City, Ocmulgee River at.....	170-173	definition of.....	19
Lumpkin, Bluff Springs Branch near.....	510	National trends network, explanation of.....	9
		definition of.....	19
McBean, McBean Creek near.....	504	Natural substrate, definition of.....	21
McBean Creek near McBean.....	504	New England, Lookout Creek near.....	501
McClendon Creek tributary near Dallas.....	513	New River (Apalachicola River Basin) near Corinth.....	327
McIntosh County, ground-water levels in.....	539	New River (Suwannee River Basin) near Tifton.....	260

Newton, Flint River at.....	380-385	Pembroke, Mill Creek near.....	505
Norcross, Chattahoochee River near.....	287	Penfield, Oconee River near.....	2,180
Crooked Creek tributary No. 2 near.....	509	Penholoway Creek near Jesup.....	208-209
North Fork Peachtree Creek tributary near Atlanta.....	509	Percent composition, definition of.....	21
near Chamblee.....	509	Percosin Creek tributary at Albany.....	512
North Newport River at Halfmoon Landing.....	121-122	Periphyton, definition of.....	20
North Newport River Basin, gaging-station		Perry, Mossy Creek near.....	506
records in.....	121-122	Pesticides, definition of.....	20
North Oconee River above Athens.....	177	Phytoplankton, definition of.....	20
Nottely Lake near Ivylog, contents of.....	502	Picocurie, definition of.....	20
		Pine Chapel, Coosawatee River near.....	409
Oakfield, Flint River at State Highway 32, near.....	369	Pine Knot Creek near Juniper.....	510
Ochillee Creek near Cusseta.....	510	Pinhook Creek near Eton.....	512
Ochlockonee River near Calvary.....	274-275	Plains, Choctahatchee Creek tributary near.....	511
near Coolidge.....	508	Plankton, definition of.....	20
near Moultrie.....	271	Popple Branch near Whigham.....	509
near Thomasville.....	272-273	Port Wentworth, Savannah River near.....	82-85
tributary at Moultrie.....	508	Savannah River at U.S. 17, at.....	86-89
tributary near Coolidge.....	508	Precipitation-quality stations, analyses of samples	
tributary of tributary at Moultrie.....	508	collected.....	546-549
Ochlockonee River Basin, crest-stage partial-		list of records published in this report,	
record stations in.....	508-509	by county.....	x
gaging-station records in.....	271-275	near Tifton.....	546-549
Ocmulgee River above Macon.....	150-151	Preston, Kinchafoonee Creek at.....	370-371
at Abbeville.....	169	Primary productivity, definition of.....	20
at Lumber City.....	170-173	Publications on techniques of water resources	
at Macon.....	152-153	investigations.....	23-24
near Bonaire.....	167	Putney, Flint River near.....	378-379
near Jackson.....	143-144		
near Warner Robins.....	156-166	Quitman, Okapilco Creek at.....	268
Oconee River at Dublin.....	191-192	Okapilco Creek at State Highway 33, near.....	267
at I-16, near Dublin.....	193-194	Withlacoochee River near.....	264-266
at Milledgeville.....	187-188		
near Hardwick.....	189	Radiochemical program, explanation of.....	9
near Mount Vernon.....	196	definition of.....	20
near Penfield.....	2,180	Raes Creek tributary No. 1 at Augusta.....	504
near Toombsboro.....	190	Randolph County, ground-water levels in.....	541
near Watkinsville.....	178-179	Recoverable from bottom material, definition of.....	20
Offerman, Little Satilla River near.....	233	Reidsville, Ohoopsee River near.....	200-202
Ogeechee River at Jewell.....	504	Resaca, Conasauga River near.....	428
near Eden.....	112-116	Oostanaula River at.....	429-432
near Oliver.....	111	Oostanaula River below.....	433-434
Ogeechee River Basin		Reservoirs, <i>See</i> Lakes and reservoirs	
crest-stage partial-record stations in.....	504-505	Return period, definition of.....	20
gaging-station records in.....	110-120	Richard B. Russell Reservoir near Calhoun	
peak discharge at miscellaneous sites in.....	514	Falls, S.C., contents of.....	107
Ohoopsee River near Reidsville.....	200-202	Richmond Hill, Canoochee River near.....	120
Okapilco Creek at Quitman.....	268	Rico, Chattahoochee River at Capps Ferry Bridge,	
at State Highway 33, near Quitman.....	267	near.....	317
tributary at Moultrie.....	508	Rochelle, Folsom Creek tributary near.....	506
Olive Creek tributary at Thomasville.....	508	Rockmart, Euharlee Creek at.....	512
Oliver, Ogeechee River near.....	111-120	Rocky Creek (Altamaha River Basin) near Dudley.....	195
Onemile Branch at Vallotton Street, at Valdosta.....	507	Rocky Creek (Savannah River Basin)	
at Wainright Drive, at Valdosta.....	507	tributary at Augusta.....	504
Oostanaula River at Resaca.....	429-432	Rocky Comfort Creek near Grange.....	504
at Rome.....	437	Rome, Coosa River near.....	463-469
at 5th Avenue, at Rome.....	438	Etowah River at.....	461-462
below Resaca.....	433-434	Etowah River tributary near.....	512
near Rome.....	436	Oostanaula River at.....	437
Oquina Creek at Cairo Road, at Thomasville.....	509	Oostanaula River at 5th Avenue, at.....	438
at Wolf Street, at Thomasville.....	508	Oostanaula River near.....	436
Organic mass, definition of.....	17	Silver Creek tributary No. 3 at.....	512
Organism, definition of.....	19	Silver Creek tributary No. 2 at Lindale	
Organism count/area, definition of.....	19	Road near.....	512
Organism count/volume, definition of.....	19	Roswell, Chattahoochee River above.....	288
Other records available.....	13	Runoff in inches, definition of.....	20
		Rupert, Cedar Creek near.....	511
Pachitla Creek near Edison.....	386		
Parameter code, definition of.....	19	St Marys, Cumberland Sound at Dungeness	
Partial-record station, definition of.....	19	Dock, near.....	239-245
Particle size, definition of.....	19	St Marys River at Boulogne, Fla.....	248
Particle size classification, definition of.....	19	near Gross, Fla.....	249-251
Peachtree Creek at Atlanta.....	296-299	near Macclenny, Fla.....	246-247
North Fork tributary near Atlanta.....	509	St Marys River Basin, gaging-station records in.....	246-251
North Fork tributary near Chamblee.....	509	St. Simons Island, Brunswick River at	
South Fork tributary near Atlanta.....	509	Village Pier, at.....	227-228

	Page		Page
Sandy Springs, Chattahoochee River at Morgan Falls Dam, at.....	290-292	Stage-discharge relation, definition of.....	21
Sardis Beaverdam Creek near.....	72	Statenville, Alapaha River at.....	3,257-259
Satilla River at Atkinson.....	234-238	Little River near.....	507
at Walertown.....	229	Station identification numbers, explanation of.....	9
near Hoboken.....	231-232	downstream order system of.....	9
near Waycross.....	230	latitude-longitude system of.....	10
tributary No. 2 at Atkinson.....	507	Steam Mill, Chattahoochee River near.....	344-345
Satilla River Basin, crest-stage partial-record stations in.....	507	Stekoa Creek below Clayton.....	35
gaging-station records in.....	229-238	Stewart, Alcovy River above.....	142
Savage Creek near Bullard.....	506	Yellow River near.....	139-140
Savannah, Savannah River at Broad Street, at.....	90-91	Stockbridge, Camp Creek tributary near.....	505
Wilshire Canal near.....	505	Stony Bluff Landing, Savannah River at.....	63
Wilshire Canal tributary near.....	505	Streamflow, definition of.....	21
Savannah River at Augusta.....	54-56	Summary of hydrologic conditions of.....	2
at Broad Street, at Savannah.....	90-91	Substrate, definition of.....	21
at Burtons Ferry Bridge, near Millhaven.....	64-65	Sugar Creek tributary at Valdosta.....	507
at Fort Pulaski.....	103-104	Summerville, Chattooga River at.....	2,484-486
at Stony Bluff Landing.....	63	Surface area, definition of.....	21
at U.S. 17, at Port Wentworth.....	86-89	Surface-water stations, list of active and discontinued.....	515-520
below Hartwell Lake, near Hartwell.....	41	list of records published in this report, in downstream order.....	vi-ix
below Spirit Creek, near Augusta.....	57	Surface water-quality, classification of.....	13
below Steel Creek, near Millett, S.C.....	61-62	records of.....	13
near Clio.....	73-80	data presentation of.....	14
near Iva, S.C.	42	explanation of records of.....	13-14
near Jackson, S.C.....	58-60	laboratory measurements of.....	14
near Martinez.....	50	on-site measurement and sample collection of.....	13
near Port Wentworth.....	82-85	remarks codes.....	14
Savannah River Basin, crest-stage partial-record stations in.....	504	sediment.....	13
gaging-station records in.....	31-104	water temperature of.....	13
lakes and reservoirs in.....	105-108	Surficial bed material, definition of.....	21
peak discharge at miscellaneous sites in.....	514	Suspended, definition of.....	21
Scarecorn Creek above Hinton.....	403-404	Suspended, recoverable, definition of.....	21
at Hinton.....	405-406	Suspended, total, definition of.....	22
Sediment, definition of.....	20	Suspended sediment, definition of.....	21
explanation of.....	13	Suspended-sediment concentration, definition of.....	21
Senobia, Line Creek near.....	354	Suspended-sediment discharge, definition of.....	21
Shoal Creek near Atlanta.....	505	Suspended-sediment load, definition of.....	21
tributary near Atlanta.....	505	Suwanee Creek near Suwanee.....	286
Silver Creek tributary No. 3 at Rome.....	512	Suwanee, Suwanee Creek near.....	286
tributary No. 2 at Lindale Road, near Rome.....	512	Wolf Creek near.....	505
Sinclair Reservoir near Milledgeville, contents of.....	216	Suwanee River at Fargo.....	2,252-255
Snake Creek near Whitesburg.....	318-320	Suwanee River Basin, crest-stage partial-record stations in.....	507-508
Snapping Shoals, South River at.....	133-134	gaging-station records in.....	252-270
Snellville, Watson Creek tributary No. 2 at.....	506	Swainsboro, Little Ohoopsee River near.....	507
Yellow River near.....	135-137	Sweetwater Creek near Austell.....	303-305
Sodium-adsorption-ratio, definition of.....	21		
Solute, definition of.....	21	Talbotton, Lazar Creek near.....	511
Sope Creek near Marietta.....	293-294	Talking Rock, Fausett Creek near.....	402
South Brunswick River at Colonels Island near Brunswick.....	221-222	Talking Rock Creek near Hinton.....	407
South Chickamauga Creek at Graysville.....	499	Tallapoosa, Mann Creek tributary near.....	513
South Fork Peachtree Creek tributary near Atlanta.....	509	Tallapoosa River below.....	489
South River at Atlanta.....	123	Tallapoosa River below Tallapoosa.....	489
at Klondike Road, near Lithonia.....	125-132	Tallahula River near Clayton.....	36-40
at Snapping Shoals.....	133-134	Tanyard Creek at Athens.....	506
near Lithonia.....	124	Taxonomy, definition of.....	22
South Utoy Creek tributary at East Point.....	509	Tazewell, Buck Creek tributary near.....	511
Spalding County, ground-water levels in.....	542	Techniques of water-resources investigations, publications on.....	23-24
Special networks and programs.....	9	Temple Creek near Blakely.....	510
Specific conductance, definition of.....	21	Tennessee River Basin, gaging-station records in.....	495-501
Spring Creek at Colquitt.....	512	lakes in.....	502-503
near Iron City.....	395	peak discharges at miscellaneous sites in.....	514
near Louisville.....	505	Thermograph, definition of.....	22
near Trion.....	483	Thomaston, Flint River near.....	355
Springfield, Ebenezer Creek at.....	81	Thomasville, Brucers Branch at.....	509
Stage and water discharge, accuracy of records of.....	13	Brucers Branch tributary at.....	509
data collection and computation of.....	10-11	Ochlockonee River near.....	272-273
data presentation of.....	11-12	Olive Creek tributary at.....	508
explanation of records of.....	10-13	Oquina Creek at Cairo Road, at.....	509
identifying estimated daily discharge of.....	12	Oquina Creeka at Wolf Street, at.....	508
other records available of.....	13		

Page	Page
Thomson, Briar Creek near.....	66
Thurmond Lake near Clarks Hill, S.C., contents of.....	108
Tift County, precipitation-quality record in.....	546-549
Tifton, Arnold Creek tributary near.....	508
New River near.....	260
Tifton-ARS NADP/NTN station near.....	546-549
Tifton-ARS NADP/NTN station near Tifton.....	546-549
Tilton, Conasauga River at.....	2,416-427
Time-weighted average, definition of.....	22
Tobesofkee Creek near Macon.....	155
Toccoa River near Dial.....	498
Tons per acre-foot, definition of.....	22
Tons per day, definition of.....	22
Toombsboro, Oconee River near.....	190
Total, definition of.....	22
Total, recoverable, definition of.....	22
Total coliform bacteria, definition of.....	17
Total discharge, definition of.....	22
Total organism count, definition of.....	19
Total-sediment discharge, definition of.....	21
Total-sediment load, definition of.....	21
Tritium network, explanation of.....	9
definition of.....	22
Trion, Spring Creek near.....	483
Tusawhatchee Creek near Hawkinsville.....	168
Turkey Creek (Altamaha River Basin) near Dublin.....	506
Turkey Creek (Apalachicola River Basin) at Byromville.....	364-366
Turnpike Creek near McRae.....	174
Turtle River at Georgia Highway 303 at Brunswick.....	217-218
Two Run Creek near Kingston.....	2,460
Twomile Branch at Bemis Road, at Valdosta.....	507
at Oak Street, at Valdosta.....	508
Upatoi Creek near Columbus.....	2,339
Valdosta, Dukes Bay Canal at.....	507
Onemile Branch at Valbottom Street, at.....	507
Onemile Branch at Wainright Drive, at.....	507
Sugar Creek tributary at.....	507
Twomile Branch at Bemis Road, at.....	507
Twomile Branch at Oak Street, at.....	508
Withlacoochee River above.....	262
Withlacoochee River near.....	263
Vienna, Flint River near.....	367-368
Walnut Creek near Gray.....	154
Walter F. George Lake near Fort Gaines, contents of.....	399
Waltersville, Satilla River at.....	229
Warner Robins, Ocmulgee River near.....	156-166
Washington, Kettle Creek near.....	2,47
Little River near.....	48-49
Water quality, summary of hydrologic conditions of.....	4
Water use, summary of hydrologic conditions of.....	7
Water year, definition of.....	22
Watkinsville, Oconee River near.....	178-179
Watson Creek tributary No. 2 at Snellville.....	506
Waycross, Satilla River near.....	230
Wayne County, ground-water levels in.....	543-544
Waynesboro, Brier Creek near.....	68
WDR, definition of.....	22
Weighted average, definition of.....	22
Wells and miscellaneous sites, system for numbering, illustration of.....	10
West Chickamauga Creek near Lakeview.....	500
West Point, Chattahoochee River at.....	330-332
Flat Shoal Creek near.....	510
Long Cane Creek near.....	333-334
West Point Lake near, contents of.....	397
West Point Lake near West Point, contents of.....	397
Wet mass, definition of.....	17
Whigham, Popple Branch near.....	509
Whitesburg, Chattahoochee River near.....	321-324
Snake Creek near.....	318-320
Whitewater Creek near Butler.....	511
Williamson Swamp Creek at Davisboro.....	109-110
Wilshire Canal near Savannah.....	505
tributary near Savannah.....	505
Winder, Mulberry River near.....	506
Mulberry River tributary near.....	506
Withlacoochee River above Valdosta.....	262
at McMillan Road near Bemiss.....	261
near Clyattville.....	269-270
near Quitman.....	264-266
near Valdosta.....	263
Wolf Creek near Suwanee.....	505
Worth County, ground-water levels in.....	545
Wrens, Brushy Creek near.....	67
WSP, definition of.....	22
Yellow River at Milstead.....	138
near Snellville.....	135-137
near Stewart.....	139-140
Zooplankton, definition of.....	20

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI).

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons



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