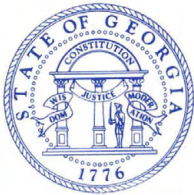
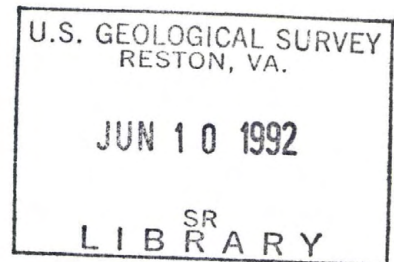


R
(200)
Ga 3
Georgia
1991



Water Resources Data Georgia Water Year 1991



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT GA-91-1
Prepared in cooperation with the State of Georgia
and with other agencies

CALENDAR FOR WATER YEAR 1991

1990

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

1991

JANUARY							FEBRUARY							MARCH						
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						1	2						1	2
6	7	8	9	10	11	12	3	4	5	6	7	8	9	5	4	5	6	7	8	9
13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23
27	28	29	30	31			24	25	26	27	28			24	25	26	27	28	29	30
														31						
APRIL							MAY							JUNE						
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				1	2	3	4							1
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22
28	29	30					26	27	28	29	30	31		23	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
	1	2	3	4	5	6					1	2	3	1	2	3	4	5	6	7
7	8	9	10	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14
14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21
21	22	23	24	25	26	27	18	19	20	21	22	23	24	22	23	24	25	26	27	28
28	29	30	31				25	26	27	28	29	30	31	29	30					



Water Resources Data Georgia Water Year 1991

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



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT GA-91-1
Prepared in cooperation with the State of Georgia
and with other agencies

U.S. DEPARTMENT OF THE INTERIOR

MANUEL LUJAN, JR., Secretary

U.S. GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in Georgia, write to

District Chief
U.S. Geological Survey
Water Resources Division
Peachtree Business Center, Suite 130
Atlanta, Georgia 30360

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:

George A. Bailey	Willis G. Hester
Carolyn A. Casteel	Charles N. Joiner
Robert Coffin	Stephen H. Jones
John S. Clarke	Charles A. Lee
Gregory B. Donley	Ronald T. Nichols
John H. Doss	Howard H. Persinger, Jr.
James D. Everett	Mark E. Reynolds
Julia L. Fanning	James E. Sohm
Douglas E. Gibbs	Timothy C. Stamey
Fred C. Gozzi	Welby L. Stayton
Suzie Grams	Rodney L. Thompson
Michael C. Hacke	John W. Tyler, Jr.
Glen W. Hess	Blaine T. White

This report was prepared in cooperation with the State of Georgia and with other agencies under the general supervision of Timothy W. Hale, District Chief, Georgia.

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
Introduction.....	1
Cooperation.....	1
Summary of hydrologic conditions.....	2
Streamflow.....	2
Water quality.....	4
Water-quality profiles of the Chattahoochee River.....	6
Water-quality profiles of the Ocmulgee and Altamaha Rivers.....	6
Ground water.....	6
Water use.....	8
Special networks and programs.....	10
Explanation of records.....	10
Station identification numbers.....	10
Downstream order system.....	10
Latitude-longitude system.....	11
Records of stage and water discharge.....	11
Data collection and computation.....	11
Data presentation.....	12
Identifying estimated daily discharge.....	13
Accuracy of the records.....	13
Other records available.....	14
Records of surface-water quality.....	14
Classification of records.....	14
On-site measurements and sample collection.....	14
Water temperature.....	14
Sediment.....	14
Laboratory measurements.....	15
Data presentation.....	15
Remark codes.....	15
Records of ground-water levels.....	15
Data collection and computations.....	16
Data presentation.....	16
Records of precipitation-quality.....	16
On-site measurements and sample collection.....	16
Data presentation.....	17
Access to WATSTORE data.....	17
Definition of terms.....	19
Publications on techniques of water-resources investigations.....	25
Station records, surface water.....	31
Discharge at partial-record stations and miscellaneous sites.....	479
Crest-stage partial-record stations.....	479
Peak discharge at miscellaneous sites.....	489
List of active and discontinued gaging stations.....	490
Station records, ground water.....	496
Ground-water levels.....	496
Index.....	521

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.....	7
4. Permitted water withdrawal for water year 1991, by use category.....	8
5. Map showing permitted water withdrawal for water year 1991, by county; (a) public supply, (b) industrial, (c) thermoelectric	9
6. System for numbering wells and other off-stream sites	11
7. Map showing location of gaging stations.....	27
8. Map showing location of crest-stage partial-record stations	28
9. Map showing location of water-quality sampling stations.....	29
10. Map showing location of selected ground-water level observation wells	30

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

	Station number	Page
SAVANNAH RIVER BASIN		
Chattooga River (head of Savannah River) near Clayton (dcm).....	02177000	33
Stekoa Creek below Clayton (cm)	02177450	36
Tallulah River near Clayton (dcm).....	02178400	37
Tugaloo River (continuation of Chattooga River):		
Eastanollee Creek near Avalon (cm).....	02183520	39
Savannah River below Hartwell Lake near Hartwell (d).....	02187252	40
Savannah River near Iva, S.C. (cm).....	02187500	41
Beaverdam Creek above Elberton (d)	02188600	42
Broad River near Bell (dcm)	02192000	43
Little River:		
Kettle Creek near Washington (d).....	02193340	46
Little River near Washington (dcm).....	02193500	47
Little River at U.S. Highway 78 near Washington	02193750	48
Savannah River near Martinez (cm)	021964839	49
Savannah River near North Augusta, S.C. (d).....	02196484	50
Butler Creek at levee at Augusta (cm)	02196995	51
Savannah River at Augusta (dcm).....	02197000	52
Savannah River below Spirit Creek near Augusta (cm).....	02197065	58
Savannah River near Jackson, S.C. (dt).....	02197320	60
Savannah River below Steel Creek, near Millett, S.C. (t).....	02197370	63
Savannah River at Stony Bluff Landing (cm).....	02197375	65
Savannah River at Burtons Ferry Bridge, near Millhaven (dcm).....	02197500	66
Brier Creek near Thomson (d).....	02197520	68
Brushy Creek near Wrens (d).....	02197600	69
Brier Creek near Waynesboro (d).....	02197830	70
Brier Creek at Millhaven (dcm).....	02198000	71
Beaverdam Creek near Sardis (d).....	02198100	74
Savannah River near Clio (dcms).....	02198500	75
Ebenezer Creek at Springfield (d).....	02198690	81
Ebenezer Creek near Stillwell (cm).....	02198715	82
Savannah River near Port Wentworth (gk)	02198840	83
Savannah (Front) River at U.S. 17 at Port Wentworth (gk)	02198920	87
Savannah River at Broad Street at Savannah (g)	02198977	91
Little Back River above Lucknow Canal near Limehouse, S.C. (k).....	021989784	93
Little Back River near Limehouse (g)	02198979	95
Little Back River at U.S. Fish and Wildlife Dock near Limehouse, S.C. (k)	021989791	97
Savannah River at Fort Pulaski (g)	02198980	99
Lakes and reservoirs in Savannah River basin		101
OGEECHEE RIVER BASIN		
Ogeechee River near Wadley (cm)	02200950	105
Williamson Swamp Creek at Davisboro (dcm).....	02201000	106
Ogeechee River near Oliver (cm)	02202190	108
Ogeechee River near Eden (dcms).....	02202500	110
Black Creek near Blitchton (d)	02202600	115
Canoochee River near Claxton (dcm).....	02203000	116
Canoochee River near Richmond Hill (cm).....	02203519	119
NORTH NEWPORT RIVER BASIN		
North Newport River at Halfmoon Landing (cm).....	02203578	120
ALTAMAHA RIVER BASIN		
South River (head of Altamaha River) at Atlanta (cm).....	02203800	122
South River near Lithonia (cm)	02203965	125
South River at Klondike Road, near Lithonia (dcmto).....	02204070	126
South River at Snapping Shoals (cm).....	02204520	134
Yellow River near Snellville (dcm).....	02206500	136
Yellow River at Milstead (cm).....	02207300	138
Yellow River near Stewart (cm).....	02208005	139
Ocmulgee River (continuation of South River):		
Alcovy River above Covington (d).....	02208450	141
Alcovy River above Stewart (cm).....	02209260	142
Ocmulgee River near Jackson (dcm).....	02210500	143
Towaliga River near Juliette (cm).....	02211800	145
Falling Creek near Juliette (dcms).....	02212600	146
Ocmulgee River above Macon (cm).....	02212950	151

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

	Station number	Page
ALTAMAHA RIVER BASIN--Continued		
Ocmulgee River at Macon (d)	02213000	153
Walnut Creek near Gray (d).....	02213050	155
Tobesofkee Creek near Macon (d).....	02213500	156
Tobesofkee Creek at Macon (cm).....	02213560	157
Tobesofkee Creek Tributary at U.S. Highway 41 at Macon (cm).....	02213561	158
Ocmulgee River near Warner Robins (dcmkhto).....	02213700	159
Ocmulgee River near Bonaire (cm).....	02214265	170
Tucsaahatchee Creek near Hawkinsville (d).....	02215100	171
Ocmulgee River at Abbeville (cm).....	02215260	172
Ocmulgee River at Lumber City (dcm).....	02215500	173
Gum Swamp Creek (head of Little Ocmulgee River) near Eastman (cm).....	02215735	177
Little Ocmulgee River:		
Sugar Creek:		
Turnpike Creek near McRae (d)	02216180	178
Pond Fork (head of Oconee River):		
Middle Oconee River (continuation of Pond Fork) near Arcade (d)	02217475	179
Middle Oconee River near Athens (d).....	02217500	180
North Oconee River above Athens (cm).....	02217740	181
Oconee River near Watkinsville (cm).....	02218000	182
Oconee River near Penfield (d).....	02218300	184
Apalachee River near Bostwick (dcm).....	02219000	186
Little River near Eatonton (dcm).....	02220900	188
Murder Creek below Eatonton (dcm).....	02221525	190
Oconee River at Milledgeville (dcm).....	02223000	192
Oconee River near Hardwick (cm).....	02223040	194
Oconee River near Toombsboro (cm)	02223250	195
Oconee River at Dublin (d).....	02223500	196
Oconee River at I-16, near Dublin (cm).....	02223600	198
Oconee River near Mount Vernon (cm)	02224500	200
Altamaha River near Baxley (dcm).....	02225000	201
Ochoopee River near Reidsville (dcm)	02225500	204
Altamaha River near Jesup (cm).....	02225990	207
Altamaha River at Doctortown (d).....	02226000	208
Altamaha River near Gardi (cm)	02226010	209
Penholoway Creek near Jesup (d).....	02226100	211
Altamaha River near Everett City (cms).....	02226160	212
Lakes and reservoirs in Altamaha River basin		217
BRUNSWICK RIVER BASIN		
Turtle River (head of Brunswick River) at Georgia Highway 303 at Brunswick (g)	02226177	219
East River at Mayors Point Terminal at Brunswick (g).....	02226178	221
South Brunswick River at Colonels Island near Brunswick (g).....	022261792	223
Brunswick River at Jekyll Island near Brunswick (g).....	022261796	225
Makay River at Torras Causeway near Brunswick (g).....	022261798	227
Brunswick River at Village Pier at St. Simons Island (g).....	02226180	229
SATILLA RIVER BASIN		
Satilla River:		
Seventeenmile River near Stokesville (cm)	02226356	231
Satilla River at Waltertown (cm)	02226475	232
Satilla River near Waycross (d)	02226500	233
Satilla River near Hoboken (cm)	02226582	234
Little Satilla River near Offerman (dcm)	02227500	236
Satilla River at Atkinson (dcms)	02228000	238
CROOKED RIVER BASIN		
Cumberland Sound at Dungeness Dock near St Marys (g).....	02228300	243
ST MARYS RIVER BASIN		
St Marys River near Macclenny, Fla. (dg)	02231000	245
St Marys River at Boulogne, Fla. (cm).....	02231220	247
SUWANNEE RIVER BASIN		
Suwannee River at Fargo (dcm)	02314500	248
Alapaha River at Statenville (dcm).....	02317500	252
Withlacoochee River:		
New River near Tifton (cm).....	02317718	255
Withlacoochee River at McMillan Road near Bemiss (d)	023177483	256

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

	Station number	Page
SUWANNEE RIVER BASIN—Continued		
Suwannee River:—Continued		
Withlacoochee River above Valdosta (cm)	02317749	257
Withlacoochee River near Valdosta (cm)	02317757	258
Little River:		
Indian Creek near Berlin (cm)	02318014	259
Withlacoochee River near Quitman (dcm)	02318500	260
Okapilco Creek at State Highway 33, near Quitman (d)	02318700	263
Okapilco Creek at Quitman (cm)	02318725	264
Withlacoochee River near Clayville (cm)	02318960	265
OCHLOCKONEE RIVER BASIN		
Ochlockonee River near Moultrie (cm)	02327205	267
Ochlockonee River near Thomasville (cm)	02327500	268
Ochlockonee River near Calvary (cm)	02328200	269
APALACHICOLA RIVER BASIN		
Chattahoochee River (head of Apalachicola River) at Helen (d)	02330450	271
Chattahoochee River at Nacoochee (cm)	02330453	272
Chattahoochee River near Cornelia (dcms)	02331600	273
Dicks Creek (head of Chestatee River) near Neels Gap (cm)	02333105	276
Chestatee River near Dahlonega (ds)	02333500	277
Chattahoochee River at Buford Dam, near Buford (d)	02334430	280
Suwanee Creek near Suwanee (d)	02334885	281
Chattahoochee River near Norcross (d)	02335000	282
Chattahoochee River above Roswell (d)	02335450	283
Big Creek near Alpharetta (d)	02335700	284
Chattahoochee River at Morgan Falls Dam at Sandy Springs (g)	02335810	285
Sope Creek near Marietta (d)	02335870	286
Chattahoochee River at Atlanta (dc)	02336000	288
Peachtree Creek at Atlanta (dgcm)	02336300	289
Chattahoochee River at State Highway 280, near Atlanta (d)	02336490	293
Chattahoochee River at I-285, at Atlanta (cm)	02336502	294
Sweetwater Creek near Austell (dcm)	02337000	296
Chattahoochee River near Fairburn (dcmkhto)	02337170	299
Chattahoochee River at Capps Ferry Bridge near Rico (cm)	02337445	310
Snake Creek near Whitesburg (d)	02337500	311
Chattahoochee River near Whitesburg (dcms)	02338000	312
Chattahoochee River at Franklin (cm)	02338500	316
New River near Corinth (d)	02338660	317
Chattahoochee River near LaGrange (cm)	02338720	318
Chattahoochee River at West Point (dgcm)	02339500	320
Long Cane Creek near West Point (cm)	02339720	323
Chattahoochee River at Langdale, Ala. (g)	02339780	324
Chattahoochee River at Columbus (dg)	02341500	325
Upatoi Creek near Columbus (d)	02341800	327
Chattahoochee River at Coast Guard Dock at Eufaula, Ala. (g)	0234296910	328
Chattahoochee River near Columbia, Ala. (dcms)	02343801	330
Chattahoochee River near Steam Mill (cm)	02344040	333
Flint River near Jonesboro (cm)	02344180	335
Flint River near Fayetteville (cm)	02344190	336
Flint River near Lovejoy (d)	02344350	337
Flint River near Inman (cm)	02344380	338
Flint River above Griffin (cm)	02344400	339
Flint River near Griffin (d)	02344500	341
Line Creek near Senoia (d)	02344700	342
Line Creek near Digbey (cm)	02344752	343
Flint River near Thomaston (d)	02346180	344
Flint River near Culloden (dcm)	02347500	345
Flint River at Montezuma (dgcm)	02349500	348
Turkey Creek at Byromville (d)	02349900	352
Flint River near Vienna (cm)	02350001	353
Flint River at State Highway 32 near Oakfield (d)	02350512	354
Kinchafonee Creek at Preston (cm)	02350600	355
Kinchafonee Creek near Dawson (d)	02350900	356
Muckalee Creek at State Highway 195, near Leesburg (d)	02351890	357
Flint River at Albany (dgcm)	02352500	358
Flint River near Putney (cm)	02352790	362
Flint River at Newton (dcms)	02353000	364
Ichawaynochaway Creek:		
Pachitta Creek near Edison (d)	02353400	370
Ichawaynochaway Creek at Milford (dcm)	02353500	371

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

	Station number	Page
APALACHICOLA RIVER BASIN--Continued		
Chattahoochee River--Continued		
Flint River at Bainbridge (g)	02356000	373
Flint River below Bainbridge (cm)	02356015	374
Spring Creek near Iron City (d)	02357000	376
Lakes and reservoirs in Apalachicola River basin		378
MOBILE RIVER BASIN		
Cartecay River (head of Mobile River) near Ellijay (cm)	02379500	383
Coosawattee River (continuation of Cartecay River) near Ellijay (d)	02380500	384
Talking Rock Creek:		
Talona Creek:		
Fausett Creek near Talking Rock (d)	02381600	385
Scarecorn Creek at Hinton (d)	02382000	386
Talking Rock Creek near Hinton (d)	02382200	387
Coosawattee River at Carters (d)	02382500	388
Coosawattee River near Pine Chapel (d)	02383500	389
Coosawattee River near Calhoun (cm)	02383540	390
Conasauga River near Eton (d)	02384500	392
Mill Creek near Crandall (d)	02384540	393
Conasauga River near Dalton (cm)	02384748	394
Holly Creek near Chatsworth (d)	02385800	395
Conasauga River at Tilton (dcmkhto)	02387000	396
Conasauga River near Resaca (cm)	02387050	408
Oostanaula River (continuation of Coosawattee River) at Resaca (dgs)	02387500	409
Oostanaula River below Resaca (cm)	02387502	412
Armuchee Creek:		
Little Armuchee Creek:		
Heath Creek below Rocky Mountain Damsite, near Armuchee (d)	02388320	413
Oostanaula River near Rome (d)	02388500	414
Oostanaula River at Rome (cm)	02388520	415
Oostanaula River at 5th Avenue, at Rome (g)	02388530	417
Etowah River near Dawsonville (cm)	02389000	418
Etowah River at Canton (dgc)	02392000	419
Etowah River at Allatoona Dam, above Cartersville (dcm)	02394000	423
Etowah River near Cartersville (g)	02394670	425
Etowah River at Euharlee (g)	02394969	426
Etowah River near Euharlee (cm)	02394980	427
Etowah River near Kingston (d)	02395000	429
Two Run Creek near Kingston (d)	02395120	430
Etowah River at Rome (dcm)	02396000	431
Coosa River (continuation of Oostanaula River) near Rome (dgcmt)	02397000	433
Cedar Creek at Cedartown (d)	02397410	441
Cedar Creek near Cedartown (cm)	02397500	442
Coosa River near Coosa (cmkhto)	02397530	443
Chattooga River:		
Spring Creek near Trion (cm)	02397845	453
Chattooga River at Summerville (dcm)	02398000	454
Chattooga River at Chattoogaville (cm)	02398037	458
Tallapoosa River below Tallapoosa (cm)	02411930	460
Little Tallapoosa River below Bowdon (cm)	02413210	462
Lakes and reservoirs in Mobile River basin		463
TENNESSEE RIVER BASIN		
Tennessee River:		
Little Tennessee River near Dillard (cm)	03499927	466
Hiwassee River:		
Corbin Creek:		
Brier Creek near Hiwassee (d)	03544947	467
Nottely River near Blairsville (cm)	03550500	468
Toccoa River (head of Ocoee River) near Dial (dm)	03558000	469
South Chickamauga Creek at Graysville (cm)	03566800	471
Mud Creek:		
West Chickamauga Creek (continuation of Mud Creek) near Lakeview (cm)	03567340	473
Lookout Creek near New England (dcm)	03568933	475
Lakes in Tennessee River basin		477
DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES		
Crest-stage partial-record stations		479
Peak discharge at miscellaneous sites		489

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

GROUND-WATER LEVELS

Page

CHARLTON COUNTY

Well 304943082213701, Local number 27E004 496

CHATHAM COUNTY

Well 315950081161201, Local number 35P094 497

Well 320021081124801, Local number 36Q020 498

Well 320122080510204, Local number 39Q003 499

Well 320202080541201, Local number 38Q002 500

Well 320530081085001, Local number 36Q008 501

COOK COUNTY

Well 310813083260301, Local number 18H016 502

DECATUR COUNTY

Well 305736084355801, Local number 09F520 503

DOUGHERTY COUNTY

Well 313532084203501, Local number 11L002 504

Well 313554084062601, Local number 13L002 505

Well 313748084002901, Local number 13L003 506

FULTON COUNTY

Well 334207084254801, Local number 10DD02 507

GLYNN COUNTY

Well 311007081301702, Local number 33H133 508

LAURENS COUNTY

Well 322652083033001, Local number 21T001 509

LIBERTY COUNTY

Well 314343081251901, Local number 34M054 510

Well 315214081235301, Local number 34N089 511

LONG COUNTY

Well 313845081361701, Local number 33M004 512

LOWNDES COUNTY

Well 304949083165301, Local number 19E009 513

MCINTOSH COUNTY

Well 313823081154201, Local number 35M013 514

MILLER COUNTY

Well 310651084404501, Local number 08G001 515

RANDOLPH COUNTY

Well 314602084473701, Local number 07N001 516

SPAULDING COUNTY

Well 331507084171801, Local number 11AA01 517

WAYNE COUNTY

Well 313253081433502, Local number 32L015 518

Well 313701081543501, Local number 30L003 519

WATER RESOURCES DATA -- GEORGIA, 1991

INTRODUCTION

Water resources data for the 1991 water year for Georgia consists of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and ground-water levels. This report contains discharge records of 114 gaging stations; stage for 28 gaging stations; stage and contents for 18 lakes and reservoirs; water quality for 138 continuing-record stations; water quality for 1 miscellaneous site; peak stage and discharge only for 97 crest-stage partial-record stations and 8 miscellaneous sites; and water levels of 25 observation wells. 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-91-1." 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. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc.

Additional information, including current prices, for ordering specific reports may be obtained from the District Office at the address given on the back of the title page or by telephone (804) 771-2427. A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, CO 80225.

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, Wayne Shackelford, Commissioner
 Bibb County
 Glynn County
 Gwinnett County
 City of Albany
 City of Blairsville
 City of Brunswick
 City of Covington
 City of Helena
 City of Moultrie
 City of Springfield
 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

WATER RESOURCES DATA -- GEORGIA, 1991

SUMMARY OF HYDROLOGIC CONDITIONS

Streamflow

Runoff for the 1991 water year was slightly below normal in parts of central Georgia, slightly above normal across northern Georgia, and substantially above normal over most of the remainder of the State. Throughout the State, the ratio of runoff during the year to long-term runoff was generally above normal, increasing from north to south, and west to east; and averaging about 1.1, 1.3, and 2.0 across northern, central, and southern Georgia, respectively. For unregulated streams having more than 10 years of streamflow record, the runoff ratio ranged from 0.75 at Snake Creek near Whitesburg in west-central Georgia, to almost 2.6 at Okapilco Creek near Quitman in the southern part of the State. Snake Creek near Whitesburg was the only station in the State with a runoff ratio less than 0.84. The runoff ratio for most gaging stations in the west-central and southwestern parts of the State ranged from 0.9 to 1.3, while the ratio for stations in east-central, southeastern, and central-south Georgia was between 1.3 and 2.6 and exceeded 2.0 for a large percentage of these stations. In northern Georgia, the runoff ratio was between 1.0 and 1.3 for almost all streamflow stations.

Monthly mean runoff across the northern part of the State averaged slightly below normal from November through March. From December through March, monthly mean flows were less than 20 percent below normal, and only in November did the mean approach as much as 30 percent below normal. During October and the last six months of the year, monthly mean flows ranged from normal in April to about 150 percent of normal in May and August. In central Georgia, monthly mean flows for December and January averaged about 60 percent and 90 percent of normal, respectively, and for the remainder of the year, were above normal and ranged from an average of about 110 percent of normal in April to 230 percent of normal in October and 270 percent of normal in August. The October monthly mean for the gaging station, Brushy Creek near Wrens, drainage area 28 square miles (mi^2), was 1,100 percent of normal; and for the gaging station, Ogeechee River near Eden, drainage area 2650 mi^2 , was 520 percent of normal. The August monthly mean for the Eden station was 630 percent of normal. Monthly mean runoff across southern Georgia averaged 40 percent of normal for December, 80 percent of normal for November, 90 percent of normal for April, and was above normal for the remainder of the year. Monthly mean flows for October and September, averaged about 120 percent of normal and each of the other seven months averaged more than 200 percent of normal. May was about 200 percent of normal, February was 290 percent of normal, and August was more than 430 percent of normal. The August monthly mean for the gaging station, Canoochee River near Claxton, drainage area 555 mi^2 , was 1,130 percent of normal; and for the gaging station, Ochopee River near Reidsville, drainage area approximately 1,110 mi^2 , was 730 percent of normal. Figure 1 shows monthly and yearly mean discharges for the 1991 water year and the median of monthly and yearly mean discharges for 1951-80 at three representative long-term gaging stations.

Late in the 1990 water year, east-central and much of southern Georgia was experiencing severe drought conditions. As the 1991 water year began, streamflows had begun to recover in southwestern Georgia, but were still substantially deficient in the east-central and southeastern parts of the State where the recurrence intervals of minimum daily flows at several gaging stations ranged from 25 to more than 50 years. However, by October 11th, heavy rainfall had fallen over most of the State and only at one long-term station, Ogeechee River near Eden in east-central Georgia, did a record minimum daily flow occur in 1991. The new record minimum daily flow at Ogeechee River near Eden, 96 cubic feet per second (ft^3/s), occurred on October 6, and was about 10 percent below the previous record low which had occurred in mid-July of the 1990 water year. Following the rains in early October, streamflows over the State increased substantially and subsequent rains during the remainder of the year were sufficient to keep streamflows at or well above normal. At the end of the year, all gaging stations had daily flows that exceeded, and in most instances greatly exceeded, minimum flow recurrence intervals with a 50-percent change of exceedence.

The rainfall, which covered most of the State on October 10-12, was locally heavy and record setting in east-central Georgia, near Augusta. At Louisville, about 50 miles (mi) southwest of Augusta, a 24-hour rainfall total of 16.42 inches (in.) and a 3-day rainfall total of 19.89 in. were recorded (National Weather Service, written communication, 1991). This 3-day rainfall total exceeded the 3-day rainfall-total record of 19.69 in. which was set at Blakely in July 1916 (National Weather Service, written communication, 1991). Most of the affected area south and west from Augusta received 7 to 10 in. of rainfall for the 3-day period.

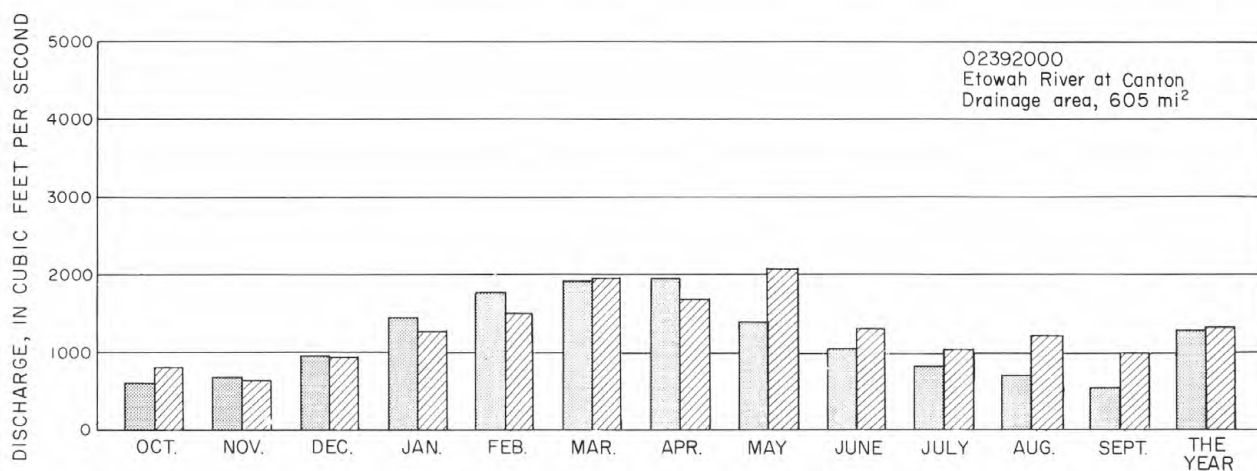
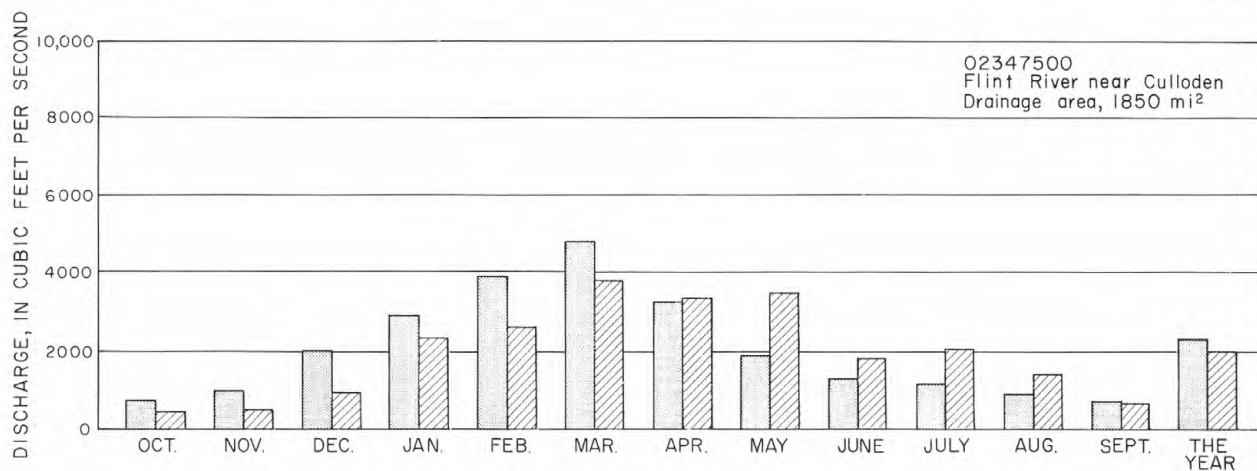
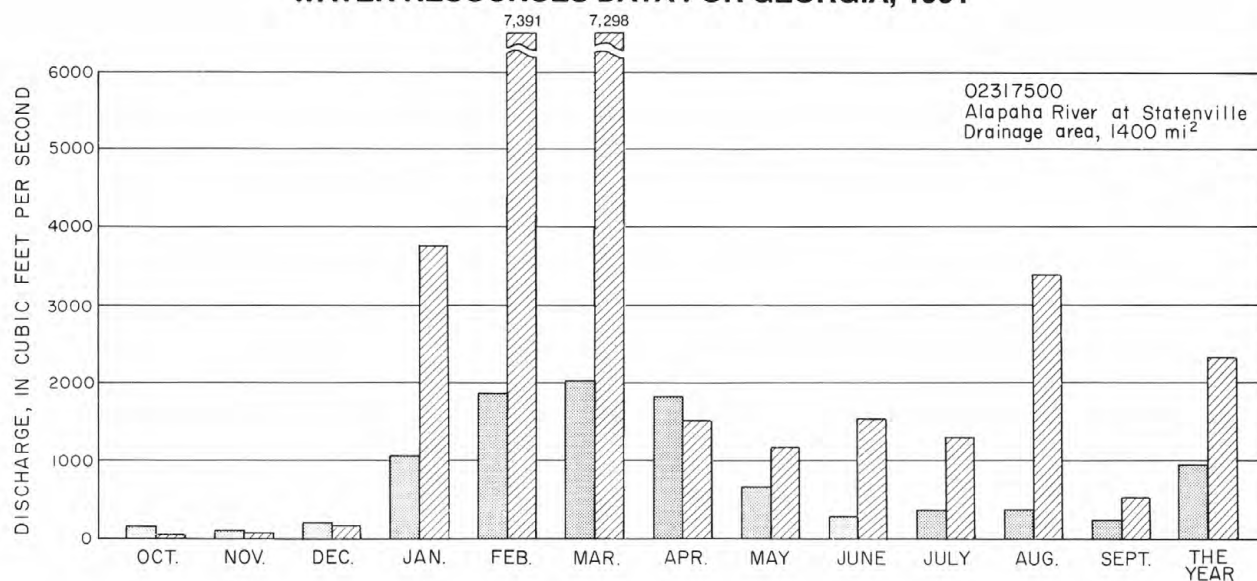
These heavy rains produced floods which caused severe damage and resulted in the President of the United States declaring nine counties in east-central Georgia a flood-disaster area. Numerous dam failures occurred and damages to roads, bridges, and other public and private property totaled millions of dollars. Several hundred residents had to be evacuated from flooded areas and four persons lost their lives after being swept away by flood waters (Federal Emergency Management Agency, written communication, 1991).

Peak discharges for many streams in east-central Georgia ranged in magnitude from more than a 10-percent chance of exceedence to less than a 1-percent chance of exceedence. Peak discharges at some sites may have been affected by dam failures. Peak discharge recurrence intervals that have less than a 1-percent chance of exceedence are computed as the ratio of the observed peak discharge to the 1-percent chance of exceedence discharge. This ratio for the gaging station, Brushy Creek near Wrens, with a drainage area of 28.0 mi^2 , was 3.8. The Brushy Creek station is located approximately 20 mi northeast of Louisville where the largest amount of rainfall was recorded. The peak discharge at this station was 11,400 cubic feet per second (ft^3/s), and was more than nine times the previous maximum in 32 years of record.

Brushy Creek is a tributary to Brier Creek, one of the larger streams flowing from the flood-affected area, and gaging stations on this stream provide a good indication of the magnitude and areal extent of flooding. Brier Creek near Thomson, located approximately 30 mi west of Augusta and 30 mi north of Louisville, has a drainage area of 55.0 mi^2 and had a peak discharge with a 10-percent chance of exceedence. Brier Creek near Waynesboro is located approximately 30 miles east of Louisville and has a drainage area of 473 mi^2 . This station had a peak discharge with slightly less than a 2-percent chance of exceedence while, further downstream, Brier Creek at Millhaven had a peak discharge with a little more than a 2-percent chance of exceedence. The Millhaven station is south and east from Waynesboro, and has a drainage area of 646 mi^2 .

WATER RESOURCES DATA FOR GEORGIA, 1991

3



EXPLANATION

- Median of monthly and yearly mean discharges for 30-year reference period 1951-80
- Monthly and yearly mean discharges during 1991 water year

Figure 1.—Comparison of discharge at three representative long-term gaging stations during 1991 water year with median discharge for 30-year reference period, 1951-80.

WATER RESOURCES DATA – GEORGIA, 1991

The ratio of the observed peak discharge to that of the 1-percent chance of exceedence ranged from 1.1 to more than 4.0 for several partial-record gaging stations with drainage areas less than 100 mi². The most notable was a ratio of 4.7 for a discontinued station, Big Creek near Louisville, which has a drainage area of 95.8 mi² and where the peak discharge was 28,400 ft³/s, about 1.5 times the previous maximum in 43 years. Big Creek and many of the other streams with peak discharges greater than the discharges for a 1-percent chance of exceedence are tributaries to the Ogeechee River. Gaging stations along the main stem of the Ogeechee also provide additional documentation of the magnitude and areal extent of flooding. The peak-flow partial-record station, Ogeechee River at Jewell is approximately 30 mi northwest of Louisville, has a drainage area of 242 mi² and had a peak discharge less than a discharge with a 50-percent chance of exceedence. Two former Ogeechee River gaging stations; one near Louisville, drainage area of 800 mi², and the other near Wadley, drainage area of 990 mi², had peak discharges of 27,000 and 29,500 ft³/s, respectively. These discharges are slightly less than those with a 1-percent chance of exceedence. At the Scarboro station, where the river drains 1,940 mi², the peak discharge had a 2-percent chance of exceedence and had attenuated to a 10-percent chance of exceedence by the time the flood wave reached the gaging station near Eden, drainage area of 2,650 mi².

The headwaters of the Ohoopsee River are approximately 20 mi southwest of Louisville, and the heavy rainfall extended into the upper-central Ohoopsee basin. At the peak-flow, partial-record station, Little Ohoopsee River near Swainsboro, drainage area of 216 mi², the ratio of the peak discharge to the discharge with a 1-percent chance of exceedence was 1.6, and at the former partial-record gaging station, Ohoopsee River near Aline, drainage area of 698 mi², the peak discharge, 22,000 ft³/s, was approximately equal to a discharge with a 1-percent chance of exceedence. Further downstream, at the gaging station near Reidsville, the peak discharge was equal to that with a 10-percent chance of exceedence and was the first of three floods during the 1991 water year with peak discharges which were equal to or slightly greater than the discharge of an event with a 10-percent chance of exceedence. The second flood, occurring in late January and early February, was caused by heavy rainfall over much of the basin, but most of the flooding was generally confined to the main stem of the Ohoopsee River. The most notable peak discharge for this flood was 16,500 ft³/s, at the former gaging station near Aline, and equaled to the discharge with a 2-percent chance of exceedence. The third flood occurred in early March and was the maximum discharge for the year at the Reidsville station. The March flood discharge at the Reidsville gage was only slightly more than that with a 10-percent chance of exceedence, but Reidsville was near the northern extremity of a storm which produced serious flooding over much of southern Georgia.

Flooding occurred throughout southern Georgia in March as a result of a storm system which produced very heavy rainfall during the first few days of the month. Rainfall amounts for March 1-3, totaled as much as 9.2 in., although most of the area of substantial flooding received from 4.5 to 6.0 in. of rainfall for the 3-day period (National Weather Service, written communication, 1991). The storm caused moderate flooding in the lower Ogeechee, Canoochee, Ohoopsee, and Ocmulgee basins, and the upper Alapaha basin where peak discharges generally ranged from discharges with a 20-percent chance of exceedence to those with a 10-percent chance of exceedence. Gaging stations on tributaries to the lower Flint had peak discharges between discharges with a 10-percent chance of exceedence and discharges with a 2-percent chance of exceedence with the most common being those with a 4-percent chance of exceedence. The most severe flooding occurred in the middle Satilla, lower Alapaha, Withlacoochee, and Ochlockonee basins, where peak discharges generally ranged from discharges with a 4-percent chance of exceedence to discharges with a 2-percent chance of exceedence, with those of a 2-percent chance of exceedence being the most common. The magnitude and the areal distribution of this flood was very similar to the floods that occurred across southern Georgia in March 1984 and February 1986.

Water Quality

Specific conductance (SC), total inorganic nitrogen (TIN), and total phosphorus (TP) in water samples collected along reaches of the Chattahoochee, Ocmulgee, and Altamaha Rivers (fig. 9) during the 1991 water year are compared to similar data from water years 1976-90 (figs. 2, 3). The figures show the maximum, median, and minimum values for data collected in 1991, and 90th percentile, median, and 10th percentile values for data collected from 1976 to 1990.

Water-quality profiles of the Chattahoochee River

Station 02331600 (A, fig. 2) is in the headwaters of the Chattahoochee River drainage area upstream from Lake Sidney Lanier. Water-quality data at this site is considered representative of surface-water quality in the Blue Ridge physiographic province of northeastern Georgia. Historic median and 1991 median values for specific conductance (26 and 28.5 microsiemens per centimeter (μs/cm)), and for concentrations of total inorganic nitrogen (0.295 and 0.50 milligrams per liter (mg/L)), and total phosphorus (0.04 and 0.07 mg/L) at this site are low, relative to values downstream near Atlanta. However, median total inorganic nitrogen and total phosphorus concentrations for the 1991 water year (0.50 and 0.07 mg/L, respectively) are higher than median values for the 1976-90 water years (0.295 and 0.04 mg/L, respectively), 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 development upstream from site 02331600 (A, fig. 2).

Along a 380-mi reach, the water-quality data from stations 02331600 to 02344040 (A to H, fig. 2) indicate downstream cyclic patterns and show the combined effects of urban and industrial use, increasing drainage area, and impoundment on the quality of the Chattahoochee River. Increases in both historical and 1991 median specific conductance, and median total inorganic nitrogen and total phosphorus concentrations between stations 02331600 (A, fig. 2) and 02338000 (D, fig. 2) may be attributed to discharge from waste-treatment facilities in the Atlanta Metropolitan area, or to non-point runoff during storm events. Median specific conductance and median concentrations of total inorganic nitrogen and total phosphorus for the 1991 water year (102 μs/cm, 1.42 mg/L and 0.24 mg/L, respectively) were highest at station 02338000 (D, fig. 2) and decreased downstream. Downstream of site D, a decrease in 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 by biota in the Chattahoochee River and West Point Lake, between stations 02338500 (E, fig. 2) and 02339500 (G, fig. 2); (3) settling of organic matter containing phosphorus in West Point Lake, and (4) improved waste-treatment facilities in the Metropolitan Atlanta area.

Median total phosphorus concentrations in the reach from stations 02336502 (B, fig. 2) and 02338500 (E, fig. 2) were much lower during the 1991 water year than during water years 1976-90. This decrease may be caused by the statewide ban on phosphate detergents in the spring of 1990 and improved waste-treatment facilities in the basin near Atlanta.

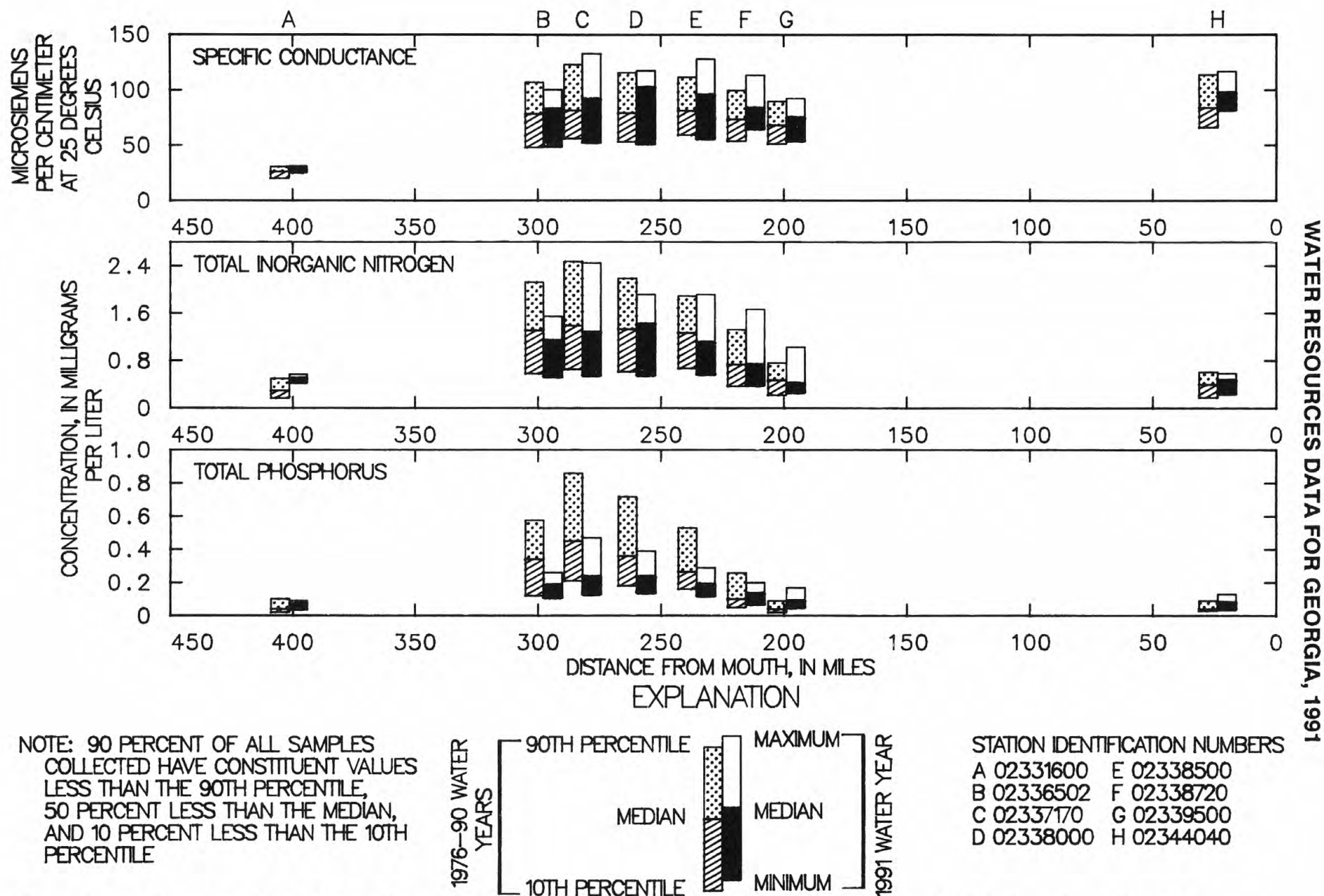


Figure 2.—River—reach profiles of specific conductance, total inorganic nitrogen, and total phosphorus for the Chattahoochee River.

WATER RESOURCES DATA -- GEORGIA, 1991*Water-quality profiles of the Ocmulgee and Altamaha Rivers*

River-reach profiles of the Ocmulgee River show an increase in the median and historic values for specific conductance, total inorganic nitrogen, and total phosphorus downstream of station 02210500 (A, fig. 3). Municipal waste-water discharges to the Ocmulgee River between stations 02212950 (B, fig. 3) and 02213700 (C, fig. 3) (Macon Metropolitan area) (fig. 9) may have contributed to the increased median (both historic and 1991 water year) specific conductance, total inorganic nitrogen, and total phosphorus concentrations observed at stations 02213700 (C, fig. 3) and 02214265 (D, fig. 3). The decrease in specific conductance values and concentrations of total inorganic nitrogen and total phosphorus downstream from station 02213700 (C, fig. 3) may be the result of dilution by increased streamflow resulting from increased drainage area and uptake of nutrients by biota in the Ocmulgee River. 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 1991 water year (0.15 mg/L and 0.14 mg/L, respectively) than during water years 1976-90 (0.18 mg/L and 0.16 mg/L, respectively). 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.

Along the Altamaha River, the water-quality data from stations 02225990 (G, fig. 3) and 02226160 (I, fig. 3) indicate a downstream cyclic pattern. The median historic and 1991 values for SC, TIN, and TP, increased between station 02225990 (G, fig. 3) and station 02226010 (H, fig. 3), and generally decreased downstream. Median values of SC, TIN, and TP for 1991 increased from 74.3 $\mu\text{S}/\text{cm}$, 0.32 mg/L and 0.08 mg/L at station G, to 91.5 $\mu\text{S}/\text{cm}$, 0.36 mg/L and 0.10 mg/L at station H; and decreased to 79.5 $\mu\text{S}/\text{cm}$, 0.30 mg/L, and 0.08 mg/L at station I. However, the median constituent concentrations along the whole Altamaha reach were notably lower in 1991 than during the 1976-90 historical reference period. The lower concentrations in 1991 probably were the result of dilution because the average streamflow was approximately 25 percent higher for the 1991 water year than during historical periods.

Ground Water

Mean ground-water levels for 25 observation wells throughout Georgia ranged from 4.2 feet (ft) lower to 6.2 ft higher in the 1991 water year than in the 1990 water year. In northern Georgia, mean water levels in the crystalline rock aquifers were from about the same to 1.0 ft lower in 1991 than in 1990. Along the coast, mean water levels in the Floridan aquifer system were from 2.0 ft lower to 6.2 ft higher in the 1991 water year than in the 1990 water year. In the Savannah area, mean water levels in the Floridan aquifer system were from 0.3 foot (ft) to 6.2 ft higher in 1991 than in 1990. The mean water level in the shallow water-table aquifer near Savannah was 1.1 ft higher in 1991 than in 1990. In the Jesup and Riceboro areas, mean water levels in the Floridan aquifer system were from about the same to 2.0 ft lower, and record lows were recorded in six wells in October and November of 1990. In the Brunswick and Okefenokee Swamp areas, mean water levels in the Floridan aquifer system were from 1.3 to 2.0 ft higher in 1991 than in 1990; however, a record low water level was recorded in one well in early October 1990. In the east-central and south-central parts of the State, mean water levels in the Floridan aquifer system were from 0.5 ft lower to 3.7 ft higher in 1991 than in 1990, and a record low was recorded in one well in early October of 1990. In the southwestern part of the State, mean water levels in the Floridan aquifer system were from 1.1 to 5.0 ft higher in 1991 than during 1990. Mean water levels in the Clayton aquifer of southwestern Georgia were from 1.2 ft higher to 4.2 ft lower in 1991 than in 1990.

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, 1990", which includes data for calendar year 1990, and "Ground-Water Conditions in Georgia, 1991", which includes data for calendar year 1991.

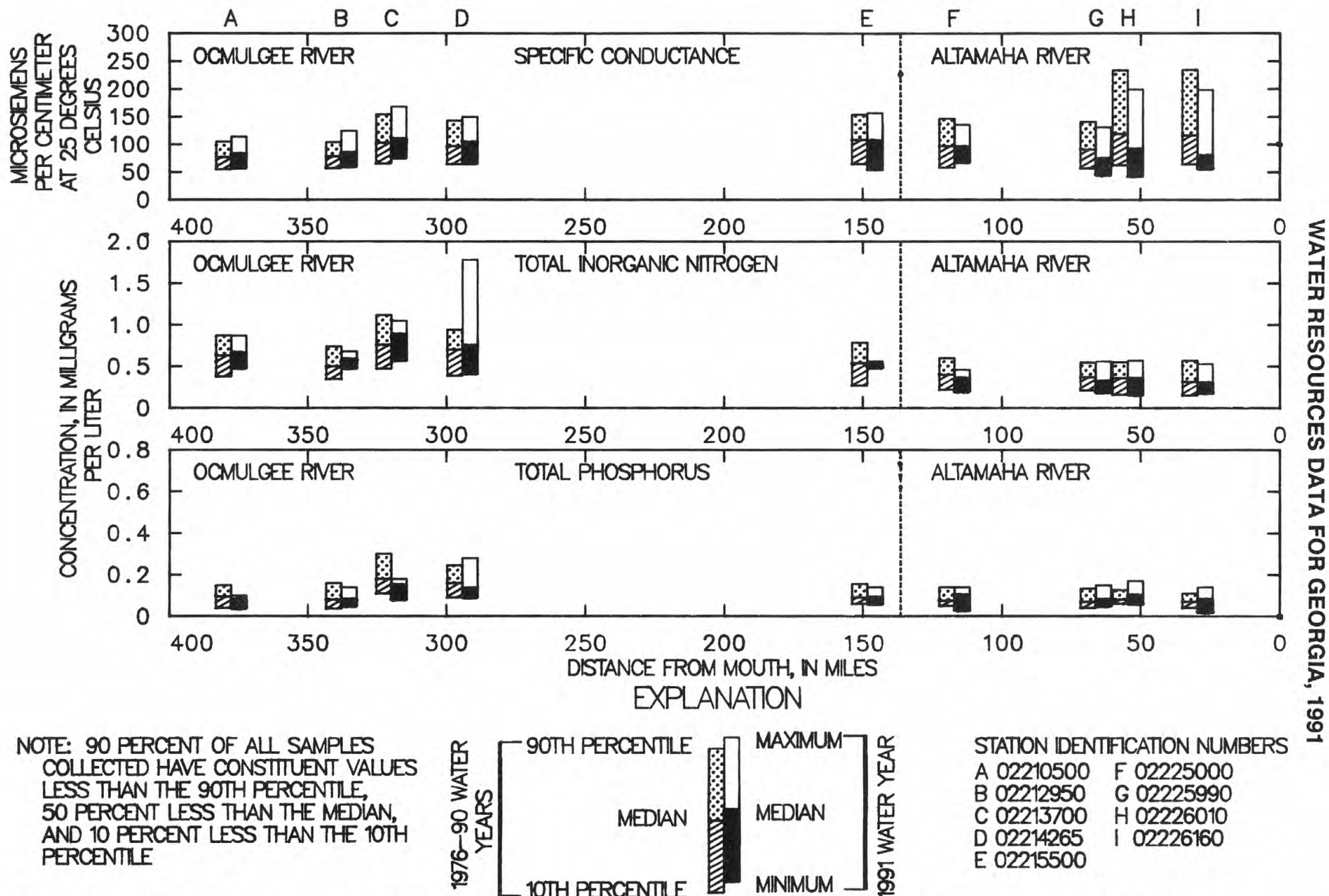


Figure 3.—River-reach profiles of specific conductance, total inorganic nitrogen, and total phosphorus for the Ocmulgee and Altamaha Rivers.

WATER RESOURCES DATA -- GEORGIA, 1991

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 purposes of the project is to collect and compile data on principal water users in the State. The water-use data, 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. The Georgia Water-Use Program estimates withdrawals 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 Georgia Department of Natural Resources, Environmental Protection Division, Water Resources Management Program (WRMP). In 1988, the Georgia Legislature enacted a permitting law for irrigation systems; however, reporting of withdrawal amounts are not required. The WRMP is responsible for the issuance of permits and enforcement of reporting withdrawals.

Total permitted withdrawal for public-supply, industrial, and thermoelectric use in Georgia was reported at 4,490 million gallons per day (Mgal/d) in water year 1991. Figure 4 shows the permitted amount for each of these three categories, and figure 5 shows the distribution of the permitted withdrawal categories by county. The 273 permitted public suppliers used about 879 Mgal/d in 1991, with 74 percent of the water used for this purpose obtained from surface-water sources. Permitted industrial withdrawal was about 550 Mgal/d, with the largest uses from manufacturing paper, kaolin mining and mineral processing, textile manufacturing, and chemical production. During water year 1991, 17 thermoelectric power plants withdrew about 3,061 Mgal/d, representing 68 percent of the total permitted withdrawal.

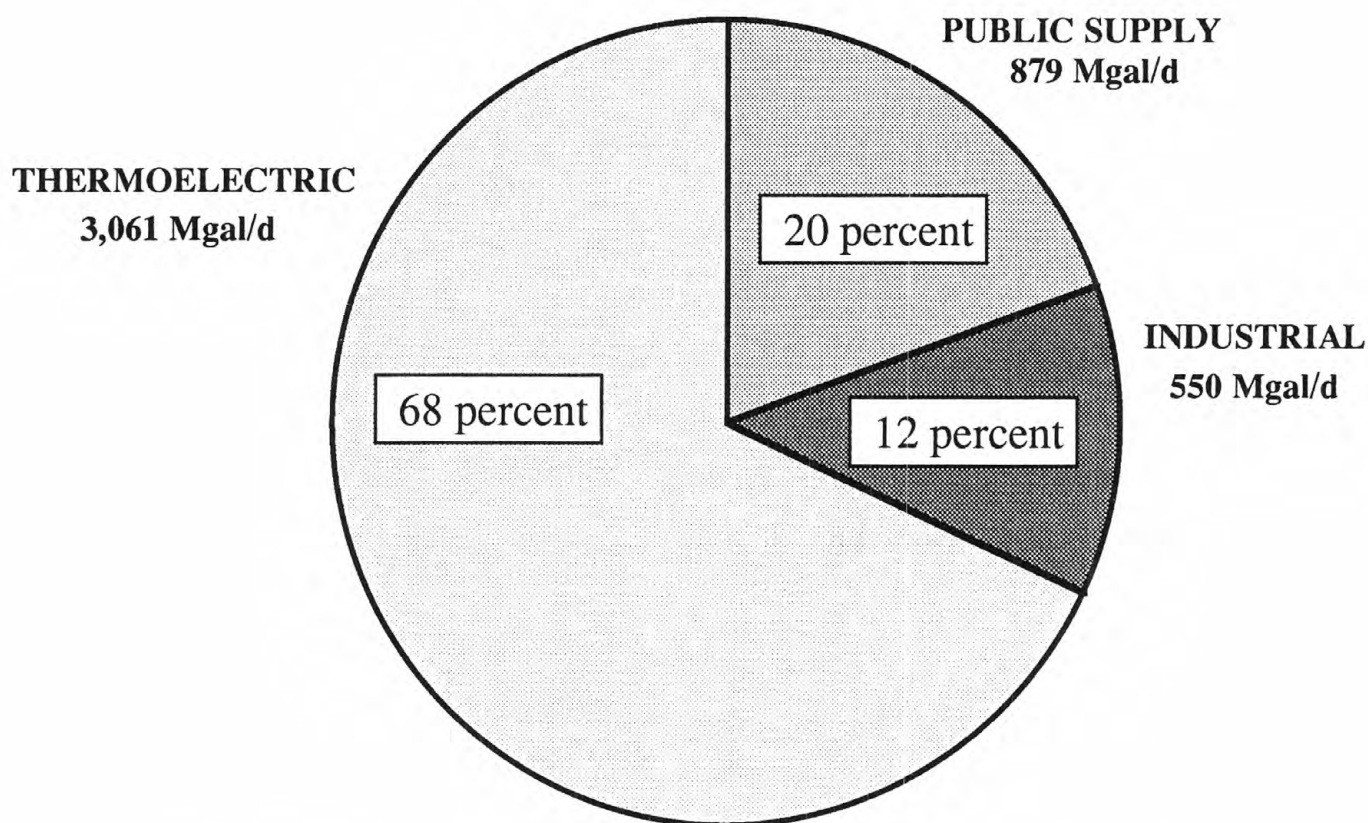


Figure 4.--Permitted water withdrawal for water year 1991, by use category.

WATER RESOURCES DATA FOR GEORGIA, 1991

9

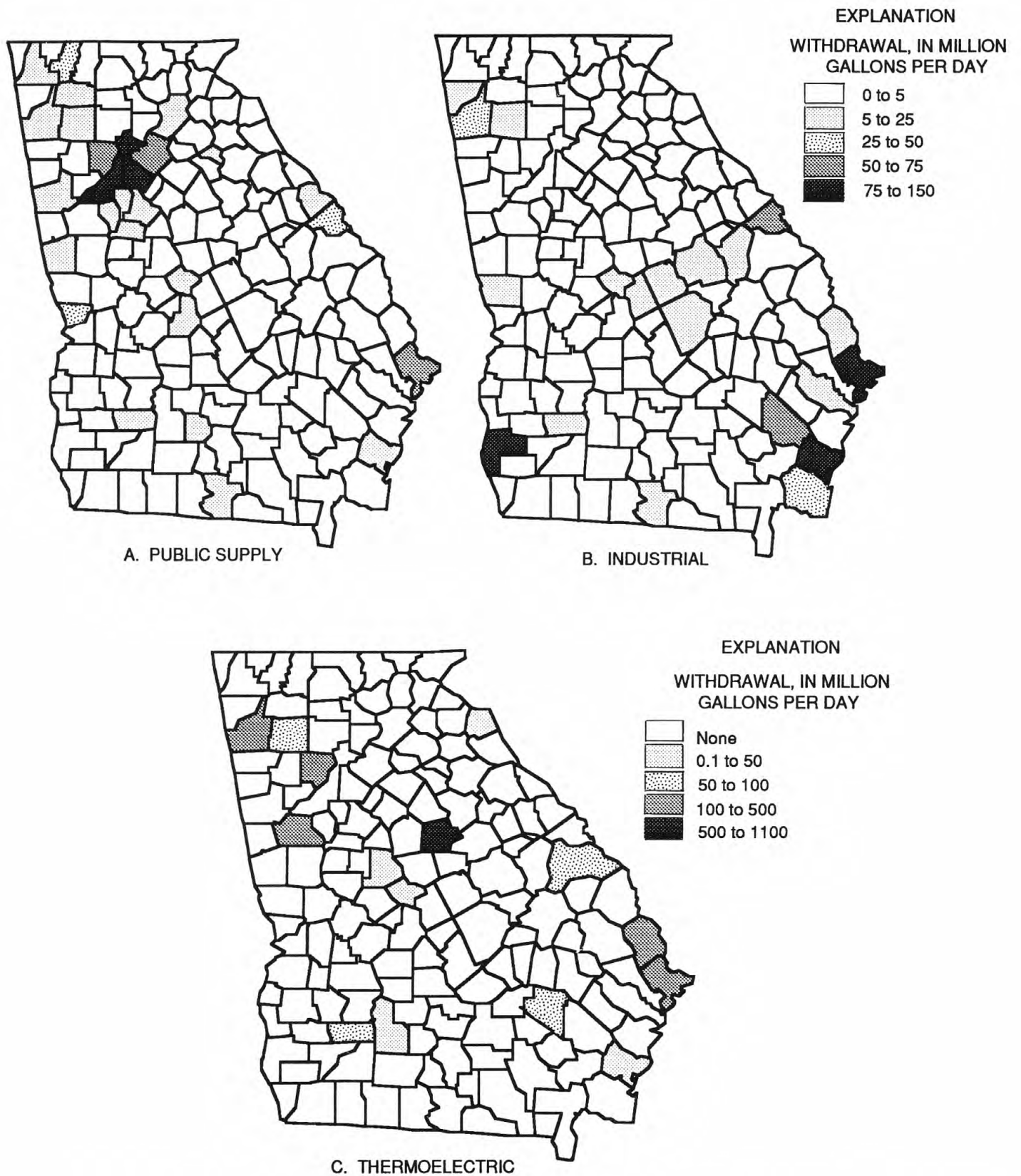


Figure 5.—Permitted water withdrawal for water year 1991 by county; (a) public supply, (b) industrial, (c) thermoelectric.

WATER RESOURCES DATA -- GEORGIA, 1991

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.

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.

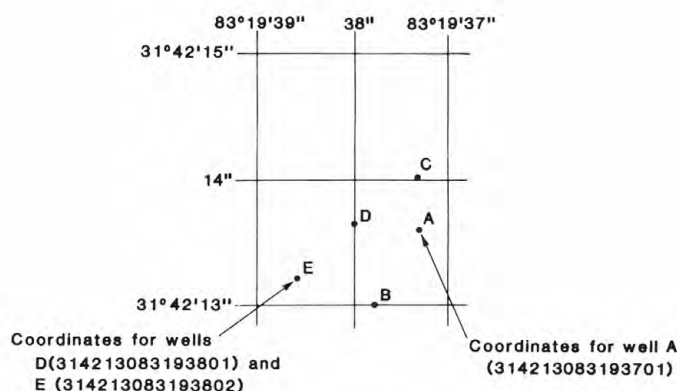


Figure 6.--System for numbering wells and other off-stream sites (latitude and longitude).

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.

WATER RESOURCES DATA -- GEORGIA, 1991

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.

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, 1991

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, 1991

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, 1991

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 daily mean 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 and lowest daily mean, and mean water levels of the water years are shown on the line 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, 1991

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 U.S. Geological Survey is the principal Federal water-data agency and, as such, collects and disseminates about 70 percent of the water data currently being used by numerous State, local, private, and other Federal agencies to develop and manage our water resources. As part of the Geological Survey's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. The National Water Data Storage and Retrieval System (WATSTORE) was established in 1972 to provide an effective and efficient means for the processing and maintenance of water data collected through the activities of the U.S. Geological Survey and to facilitate release of the data to the public. A variety of useful products, ranging from data tables to complex statistical analyses such as Log Pearson Type III, can be produced using WATSTORE. The system resides on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Virginia, and consists of related files and data bases.

- * Station-Header File - contains descriptive information on more than 440,000 sites throughout the United States and its territories where the U.S. Geological Survey collects or has collected data.
- * Daily Values File - contains more than 220 million daily values of stream flows, stages, reservoir contents, water temperatures, specific conductances, sediment concentrations, sediment discharges, and ground-water levels.
- * Peak-Flow File - contains approximately 500,000 maximum (peak) streamflow and gage-height values at surface-water sites.
- * Water-Quality File - contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, and radio-chemical characteristics of both surface and ground water.
- * Ground-Water Site-Inventory Data Base - contains inventory data for more than 900,000 wells, springs, and other sources of ground water. The data includes site location, geohydrologic characteristics, well-construction history, and one-time field measurements, such as water temperature.

In 1976, the U.S. Geological Survey opened WATSTORE to the public for direct access. The signing of a Memorandum of Agreement with the Survey is required to obtain direct access to WATSTORE. The system can be accessed either synchronously or asynchronously. The requestor will be expected to pay all computer costs he/she incurs. Direct access may be obtained by contacting:

U.S. Geological Survey
National Water Data Exchange
421 USGS National Center
Reston, VA 22092

WATER RESOURCES DATA -- GEORGIA, 1991

In addition to providing direct access to WATSTORE, data can be provided in various machine-readable formats on magnetic tape or 5-1/4 inch floppy disk; and, as noted in the "Introduction" section of this report, on CD-ROM discs. Beginning with the 1990 water year, all water-data reports will also be available to Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division's District offices. (See address on the back of the title page.) A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, CO 80225.

WATER RESOURCES DATA -- GEORGIA, 1991

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.

WATER RESOURCES DATA -- GEORGIA, 1991

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.

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.

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 [$\text{mg C}/(\text{m}^2 \cdot \text{time})$] for periphyton and macrophytes and [$\text{mg C}/(\text{m}^3 \cdot \text{time})$] 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 [$\text{mg O}_2/(\text{m}^2 \cdot \text{time})$] for periphyton and macrophytes and [$\text{mg O}_2/(\text{m}^3 \cdot \text{time})$] 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.

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 μ m 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, 1991

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.

WATER RESOURCES DATA -- GEORGIA, 1991

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 at streamflow gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 27 pages.

WATER RESOURCES DATA -- GEORGIA, 1991

- 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.
- 3-C1. *Fluvial sediment concepts*, by H.P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 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.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. *Some statistical tools in hydrology*, by H.C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H.C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. *Low-flow investigations*, by H.C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H.C. Riggs and C.H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H.C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C.T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M.J. Fishman and L.C. Friedman: USGS--TWRI Book 5, Chapter A1. 1989. 545 pages.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P.R. Barnett and E.C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS--TWRI Book 5, Chapter A3. 1987. 80 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L.J. Britton and P.E. Greenson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 pages.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L.C. Friedman and D.E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H.P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M.G. McDonald and A.W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.
- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L.F. Konikow and J.D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 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.
- 8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J.D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G.F. Smoot and C.E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

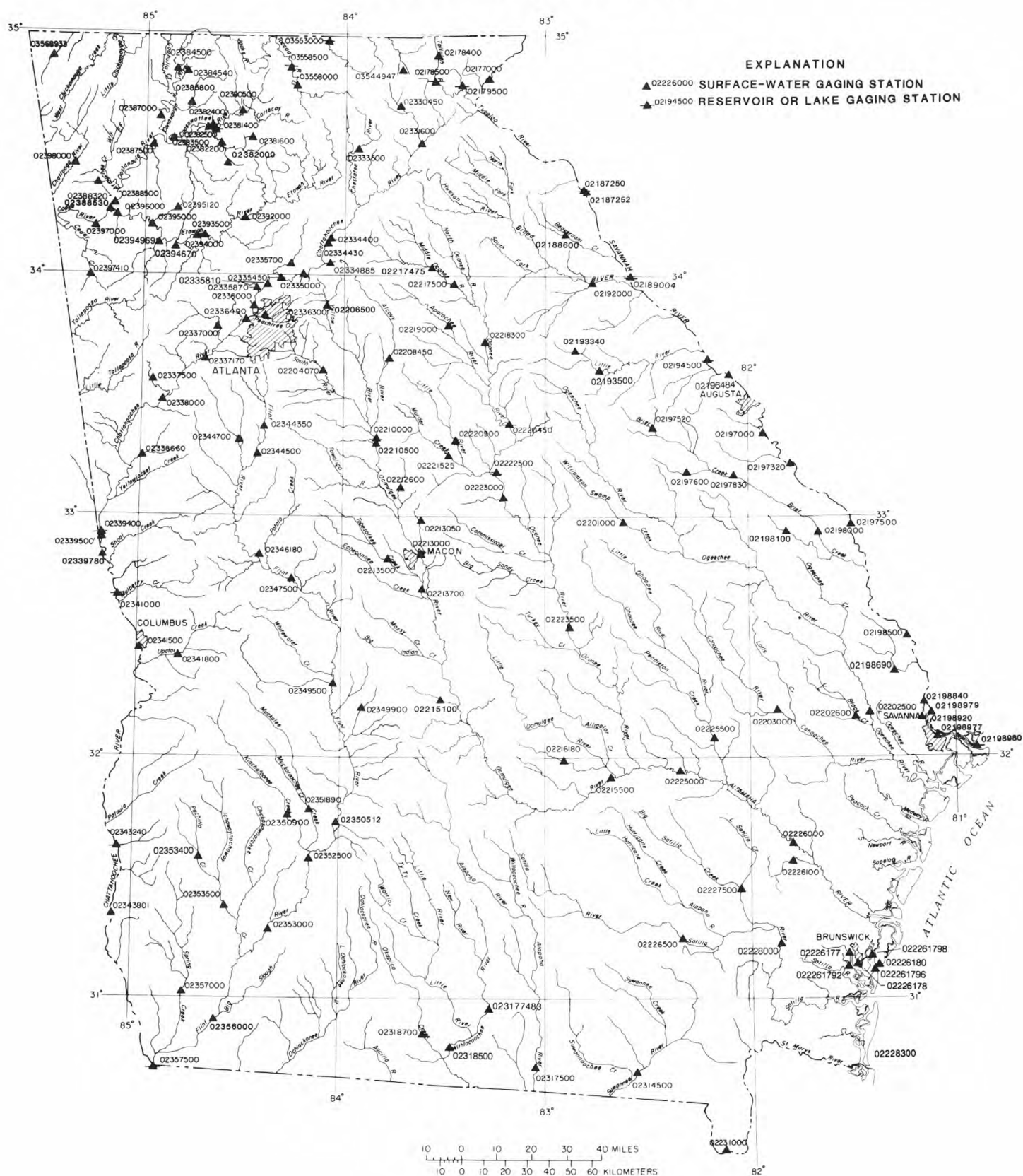


Figure 7.--Location of gaging stations.

WATER RESOURCES DATA FOR GEORGIA, 1991

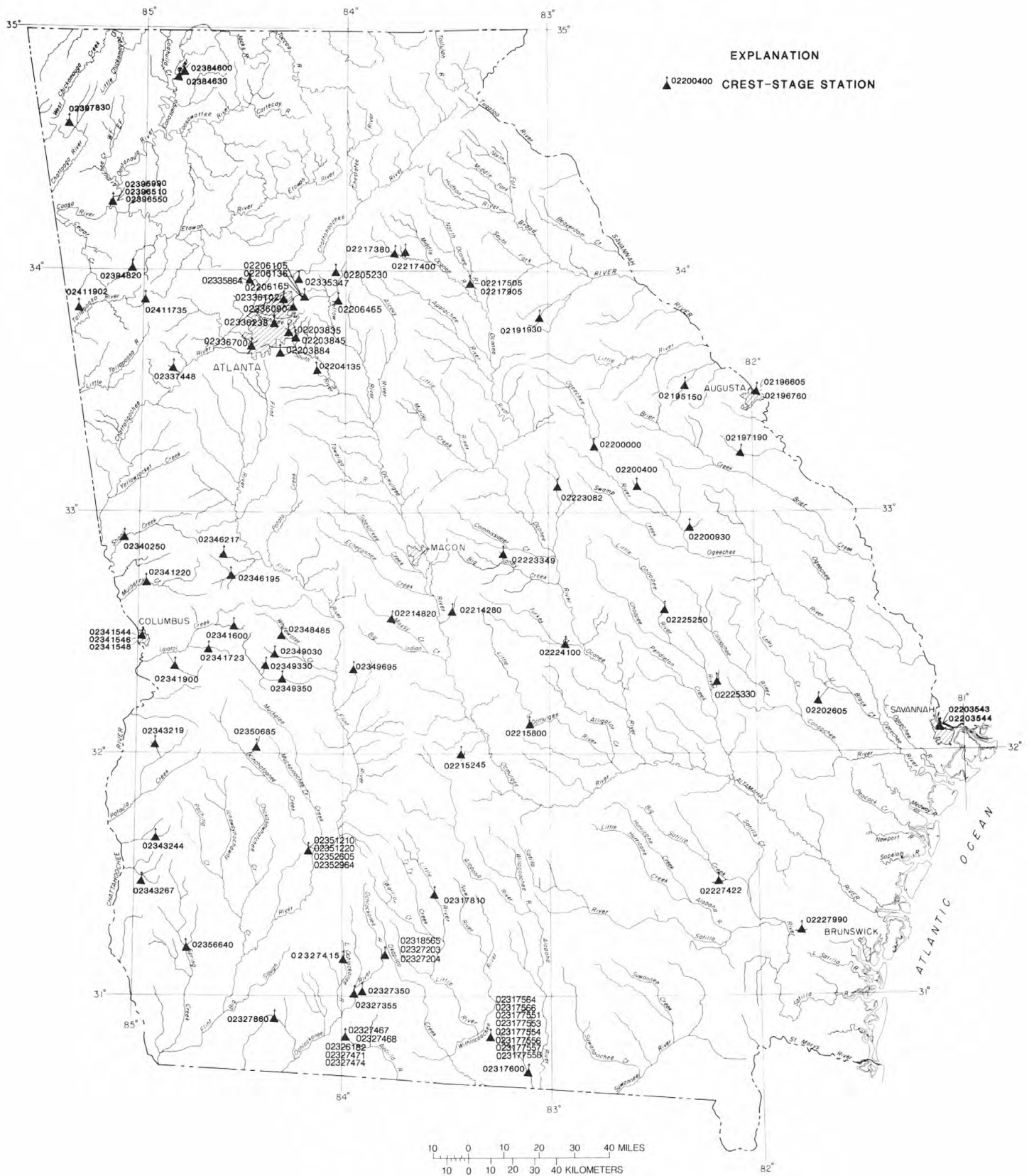


Figure 8.--Location of crest stage partial-record stations.

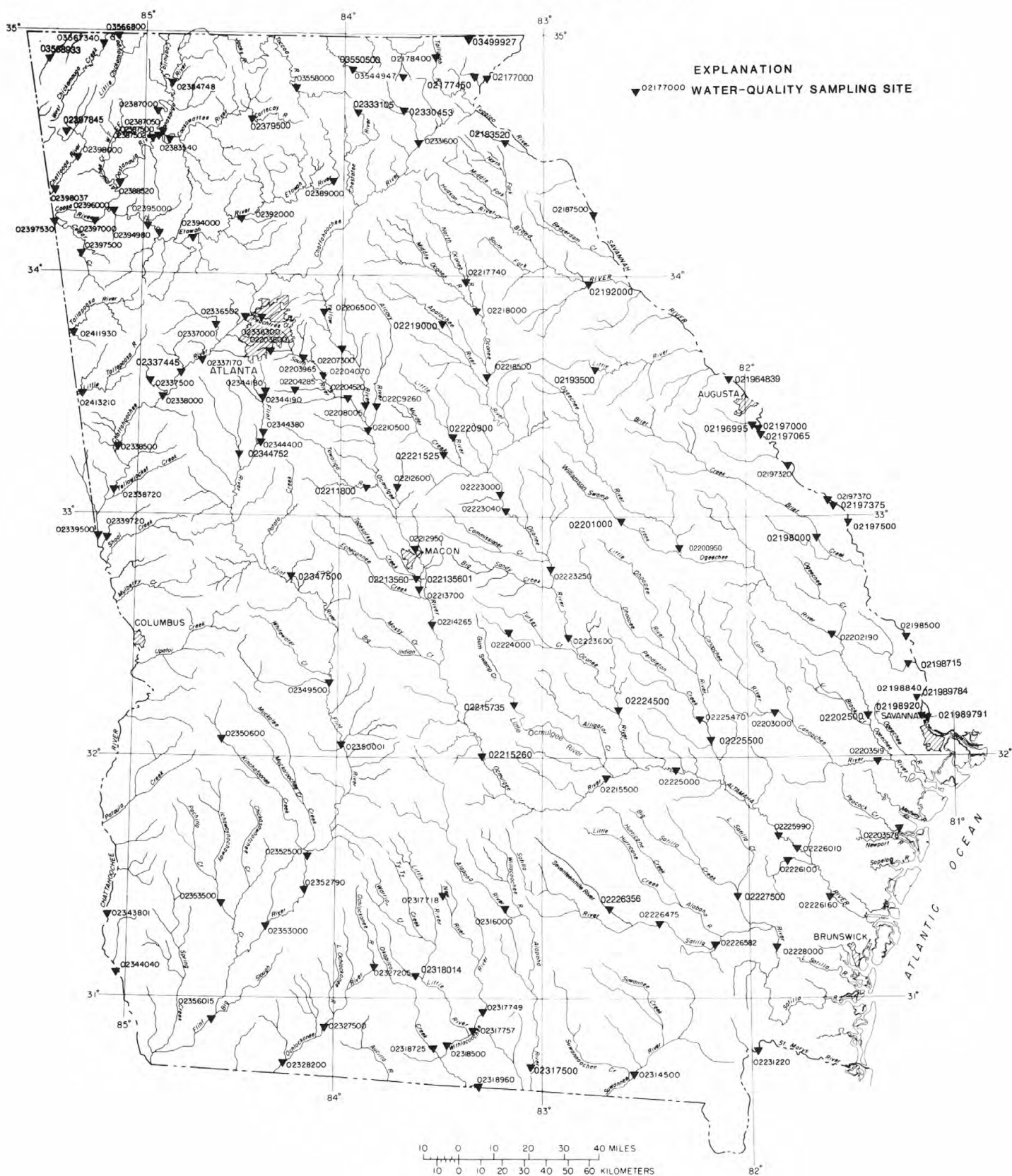


Figure 9.--Location of surface-water-quality stations.

WATER RESOURCES DATA FOR GEORGIA, 1991

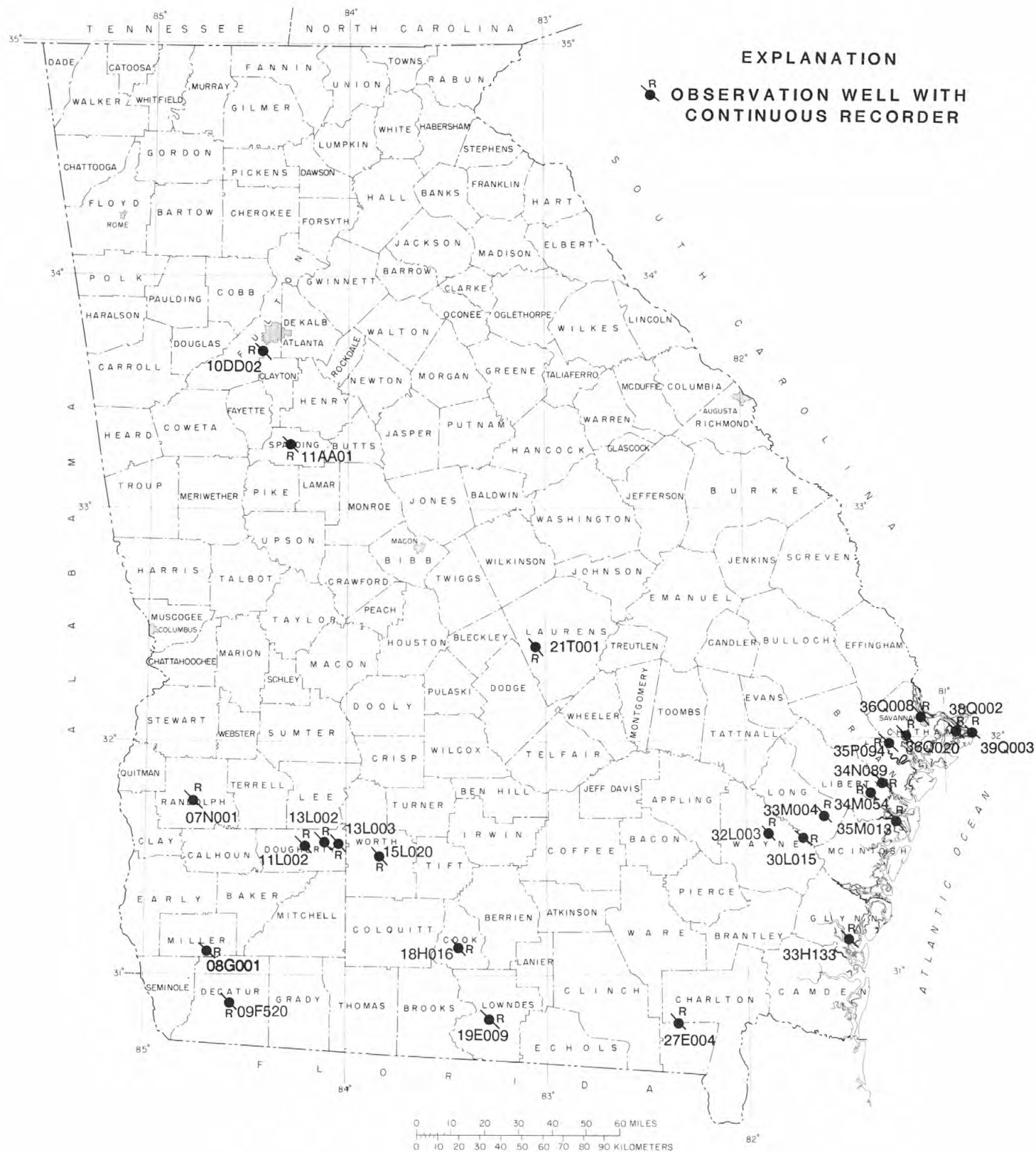


Figure 10.--Location of selected observation wells.

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.

Dissolved Trace-Element Concentrations

NOTE:

Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Present data above the $\mu\text{g/L}$ level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey will begin using new trace-element protocols in the near future.

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: May 16-22 and Aug. 12-14. Records good.

AVERAGE DISCHARGE.--52 years (water years 1940-91), 651 ft³/s, 42.71 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)
Dec. 24	0145	4,230	4.46	Mar. 29	2000	*5,800	*5.30

Minimum discharge, 195 ft³/s, Oct. 3, 4; gage height, 1.10 ft.

SAVANNAH RIVER BASIN

02177000 CHATTOOGA RIVER NEAR CLAYTON, 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	204	360	273	912	760	609	1260	1060	1020	725	657	794
2	200	344	271	795	694	1170	1110	970	958	672	673	1010
3	195	332	421	752	659	1180	1020	920	916	771	1060	839
4	218	324	1150	776	630	1260	968	900	871	627	709	816
5	342	322	592	703	606	978	1260	972	804	574	601	754
6	232	362	483	663	630	881	1220	1260	746	535	570	667
7	208	322	438	662	649	870	1050	984	716	512	586	691
8	221	306	410	743	595	878	1010	918	690	496	626	629
9	254	347	380	693	570	890	1090	977	672	482	597	643
10	228	912	362	648	553	800	1030	1210	647	471	591	636
11	325	537	348	1750	535	757	939	1200	623	487	569	583
12	953	454	337	1620	522	723	898	1120	609	447	764	524
13	671	407	329	1150	539	898	1330	1170	607	428	778	506
14	435	380	360	973	956	826	1460	1120	632	411	715	511
15	354	361	361	896	724	750	1440	1090	680	395	745	484
16	310	349	346	1460	612	707	1310	1610	692	413	611	492
17	288	338	331	1150	616	689	1140	1450	721	485	548	544
18	983	326	349	985	828	1010	1050	1470	765	685	517	500
19	863	314	460	910	829	876	1730	1500	1160	757	500	705
20	550	310	413	938	1030	784	1640	1400	1020	756	496	537
21	457	303	496	842	988	741	1600	1290	842	686	454	491
22	681	296	527	777	847	709	1310	1200	865	650	435	469
23	1220	296	1590	736	802	697	1170	1110	708	536	423	456
24	763	289	2510	722	732	674	1090	1050	650	483	407	457
25	646	279	1240	693	690	643	1020	994	625	700	423	546
26	589	273	928	660	659	624	972	952	732	1260	1610	552
27	502	271	831	641	631	610	1030	1020	783	918	1250	455
28	460	292	898	627	610	676	1160	1240	720	778	877	431
29	423	337	825	606	---	2670	1130	1680	649	707	1010	415
30	397	290	837	780	---	2520	1200	1450	659	732	1120	407
31	379	---	1110	1010	---	1520	---	1100	---	707	906	---
TOTAL	14551	10633	20206	27273	19496	29620	35637	36387	22782	19286	21828	17544
MEAN	469	354	652	880	696	955	1188	1174	759	622	704	585
MAX	1220	912	2510	1750	1030	2670	1730	1680	1160	1260	1610	1010
MIN	195	271	271	606	522	609	898	900	607	395	407	407
CFSM	2.27	1.71	3.15	4.25	3.36	4.61	5.74	5.67	3.67	3.01	3.40	2.83
IN.	2.61	1.91	3.63	4.90	3.50	5.32	6.40	6.54	4.09	3.47	3.92	3.15
CAL YR 1990	TOTAL	265233	MEAN	727	MAX	5730	MIN	195	CFSM	3.51	IN	47.67
WTR YR 1991	TOTAL	275243	MEAN	754	MAX	2670	MIN	195	CFSM	3.64	IN	49.46

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 1990 TO SEPTEMBER 1991

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...	1300	626	17	14	7.2	6.8	13.5	15.0	9.9	100
NOV 13...	1245	406	15	16	7.1	6.8	9.5	22.0	11.4	103
DEC 12...	0715	341	15	13	6.9	6.6	5.0	1.0	11.8	96
JAN 17...	1340	1120	14	--	6.8	6.6	8.5	17.5	11.2	100
FEB 13...	0730	513	16	--	7.2	6.5	7.0	3.0	11.4	99
MAR 14...	0645	840	15	13	7.1	6.5	8.5	3.5	11.8	107
APR 08...	1150	1000	15	--	6.6	6.7	15.0	24.0	9.9	102
MAY 16...	1050	1290	15	13	6.9	6.9	17.5	26.0	10.2	110
JUN 12...	0515	609	16	13	7.1	6.7	18.5	18.5	8.8	98
AUG 01...	1020	634	15	16	6.7	6.7	22.0	23.5	8.4	100
15...	1215	742	12	13	7.1	6.7	19.5	25.0	9.1	104
SEP 10...	1040	634	16	14	7.2	6.6	20.0	23.5	8.4	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	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 25...	2.0	0.3	<20	6	4	0.030	<0.030	0.040	3.2
NOV 13...	1.0	0.5	20	5	2	0.040	0.030	0.080	6.2
DEC 12...	1.0	1.0	<20	--	<1	0.020	0.060	0.080	1.6
JAN 17...	3.0	1.2	50	4	4	0.030	<0.030	0.020	2.5
FEB 13...	1.0	0.5	20	7	<1	0.020	<0.030	<0.020	1.2
MAR 14...	3.0	0.1	<20	5	4	0.040	<0.030	0.030	<1.0
APR 08...	2.0	0.1	80	6	3	0.030	0.030	0.030	<1.0
MAY 16...	14	1.7	1700	9	20	0.020	<0.030	0.050	3.0
JUN 12...	3.0	0.1	50	5	4	0.020	<0.030	0.060	2.5
AUG 01...	5.0	0.2	130	6	6	<0.020	0.120	0.050	1.4
15...	5.0	0.7	130	6	9	0.030	<0.030	0.080	3.2
SEP 10...	4.0	0.8	20	5	3	<0.020	<0.030	<0.020	1.2

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 current year.

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 1990 TO SEPTEMBER 1991

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 13...	1230	44	38	38	7.3	7.1	10.5	21.0	11.0	103
JAN 17...	1310	98	31	32	7.0	6.8	8.5	17.0	11.0	99
MAR 14...	0715	92	31	28	6.9	6.9	9.0	3.0	11.2	103
MAY 16...	1000	230	25	28	7.4	6.4	17.0	25.0	8.2	88
AUG 15...	1140	74	35	31	7.4	6.9	18.5	22.5	8.8	99

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)
NOV 13...	5.0	0.8	1300	11	5	0.340	<0.030	0.090	4.1
JAN 17...	11	1.0	260	7	14	0.380	<0.030	0.090	1.9
MAR 14...	10	0.1	330	7	15	0.370	<0.030	0.080	1.2
MAY 16...	150	3.0	35000	10	102	0.270	<0.030	0.140	7.0
AUG 15...	15	0.8	1100	11	28	0.280	<0.030	0.090	2.3

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.--27 years, 189 ft³/s, 45.43 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. 18	0845	1,320	4.95	Mar. 29	1200	*3,250	*7.40
Dec. 23	1915	2,610	6.68				

Minimum discharge, 49 ft³/s, Oct. 2, 3.

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	53	98	76	250	217	233	356	345	222	171	158	224
2	51	94	75	224	200	376	320	307	293	171	136	199
3	51	91	249	222	189	498	291	284	262	154	123	175
4	95	89	238	206	180	416	276	299	258	143	114	160
5	66	98	161	190	174	326	392	347	218	139	108	146
6	57	97	136	180	182	291	317	376	204	131	104	146
7	54	87	123	186	172	274	287	314	195	129	120	138
8	66	85	113	194	164	285	303	286	187	126	111	129
9	59	130	105	182	158	262	311	314	180	146	124	122
10	107	150	101	187	154	244	327	314	173	126	115	117
11	109	116	97	539	149	231	293	309	168	117	105	114
12	280	106	94	410	146	221	281	322	169	112	168	109
13	146	100	93	315	181	272	347	339	175	108	162	116
14	108	95	113	268	243	239	320	311	164	104	172	109
15	91	92	102	276	195	223	345	296	156	102	160	105
16	82	89	109	344	175	212	313	368	151	104	134	100
17	77	87	109	286	199	210	290	311	147	126	122	98
18	585	84	128	258	269	277	274	299	143	150	115	198
19	241	82	162	245	305	239	623	280	171	163	110	143
20	165	81	157	238	524	224	470	263	165	162	127	113
21	135	79	166	218	401	214	384	256	161	139	104	105
22	274	79	170	203	315	205	338	241	164	136	99	100
23	317	80	1150	194	276	221	308	237	147	103	96	97
24	218	76	865	189	245	206	286	225	141	129	93	108
25	184	74	412	180	228	196	268	218	141	131	106	142
26	153	72	293	174	215	190	257	210	198	140	527	112
27	135	72	266	170	202	186	320	270	196	148	267	100
28	123	90	269	166	193	233	345	256	181	143	225	95
29	114	90	254	159	---	1330	379	274	201	136	250	92
30	108	78	250	265	---	726	403	234	193	125	315	89
31	102	---	299	262	---	440	---	218	---	231	220	---
TOTAL	4406	2741	6935	7380	6251	9700	10024	8923	5524	4245	4890	3801
MEAN	142	91.4	224	238	223	313	334	288	184	137	158	127
MAX	585	150	1150	539	524	1330	623	376	293	231	527	224
MIN	51	72	75	159	146	186	257	210	141	102	93	89
CFSM	2.51	1.62	3.97	4.21	3.95	5.54	5.91	5.10	3.26	2.43	2.80	2.25
IN.	2.90	1.80	4.57	4.86	4.12	6.39	6.60	5.87	3.64	2.79	3.22	2.50
CAL YR 1990	TOTAL	80300		MEAN	220	MAX	2830	MIN	50	CFSM	3.89	IN 52.87
WTR YR 1991	TOTAL	74820		MEAN	205	MAX	1330	MIN	51	CFSM	3.63	IN 49.26

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 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 1990 TO SEPTEMBER 1991

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 13...	0950	99	20	18	7.0	6.8	8.0	13.5	11.4	102
JAN 17...	1150	287	15	16	7.0	6.4	8.0	19.5	11.1	100
MAR 14...	0845	241	16	15	7.0	6.6	8.0	9.0	11.2	104
MAY 16...	1230	567	17	14	7.1	6.3	15.5	21.5	12.0	128
AUG 15...	1345	160	18	18	7.1	6.9	19.0	28.0	8.9	102

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)
NOV 13...	--	1.0	0.6	130	7	--	0.100	<0.030	0.060	3.8
JAN 17...	--	1.0	1.0	20	3	--	0.480	<0.030	<0.020	<1.0
MAR 14...	--	1.0	0.1	40	6	--	0.030	<0.030	<0.020	1.2
MAY 16...	10	28	1.9	7000	7	53	0.020	<0.030	0.060	3.3
AUG 15...	--	1.0	0.5	330	7	--	0.050	<0.030	0.120	2.2

SAVANNAH RIVER BASIN

02183520 EASTANOLLEE CREEK NEAR AVALON, GA.

LOCATION.--Lat 34°31'42", long 83°11'50", Stephens County, Hydrologic Unit 03060102, at Yow Mill road, 0.3 miles above Little Eastanollee Creek, 7.1 miles above mouth, and 1.8 miles north of Avalon.

DRAINAGE AREA.--16.1 mi².

PERIOD OF RECORD.--August 1991 to September 1991.

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 1990 TO SEPTEMBER 1991

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)
AUG 15...	1000	3.5	200	194	7.3	7.1	20.5	22.0	8.5	97
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)		
AUG 15...	46	1.6	4900	23	0.940	0.080	0.280	7.0		

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.

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: Oct. 12, 13, 26-31, Nov. 1, 3-9, Jan. 15-24, June 14-17 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). Discharge is affected by backwater from Richard B. Russell Reservoir (See Lakes and Reservoirs in Savannah River Basin, station 02189004) when the reservoir elevation exceeds about 478 ft, therefore, the daily mean discharge is not shown for Feb. 7-11, Mar. 4-12, Mar. 29 to June 6, July 2, to Sept. 30.

AVERAGE DISCHARGE.--5 years (water years 1985-89), 2,993 ft³/s, 19.45 in./yr.

EXTREMES FOR PERIOD OF RECORD.—Maximum gage height, 12.76 ft, July 25, 1991, (discharge not determined); minimum daily discharge, 63 ft³/s, Nov. 18, 1984, Mar. 16, 23, Dec. 14, 1986, Jan. 4, 1987, but may have been less during periods of backwater, Oct. 1-16, 1989, Jan. 4 to May 30, 1990, Feb. 7-11, Mar. 4-12, Mar. 29 to June 6, July 2 to Sept. 30, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.76 ft, July 25 (discharge not determined); minimum daily discharge, 66 ft³/s, but may have been less during periods of backwater, Feb. 7-11, Mar. 4-12, Mar. 29 to June 6, July 2 to Sept. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11100	430	70	1360	4070	2790	---	---	---	10700	---	---
2	3820	3700	69	2370	681	301	---	---	---	---	---	---
3	3880	85	5380	2370	1760	570	---	---	---	---	---	---
4	3860	91	5350	3210	3770	---	---	---	---	---	---	---
5	2160	1090	4660	82	3780	---	---	---	---	---	---	---
6	120	2330	5380	293	3880	---	---	---	---	---	---	---
7	120	2740	4790	4040	---	---	---	---	5840	---	---	---
8	7310	3200	83	7920	---	---	---	---	744	---	---	---
9	4600	2880	85	4510	---	---	---	---	790	---	---	---
10	4460	67	3430	2930	---	---	---	---	2590	---	---	---
11	4460	66	2790	1960	---	---	---	---	720	---	---	---
12	4200	2860	2760	81	3750	---	---	---	1720	---	---	---
13	120	2840	2760	104	3660	4900	---	---	3880	---	---	---
14	112	2930	2740	3980	3630	3990	---	---	3500	---	---	---
15	8310	2870	73	2460	3440	3640	---	---	90	---	---	---
16	5540	2850	75	2200	4940	269	---	---	80	---	---	---
17	4210	74	3440	2060	389	282	---	---	2600	---	---	---
18	6000	70	3390	2330	4100	4390	---	---	1770	---	---	---
19	4230	2280	3390	1310	3320	4410	---	---	3000	---	---	---
20	112	2960	3390	546	3320	4480	---	---	2960	---	---	---
21	112	2950	3400	1200	3280	4460	---	---	4220	---	---	---
22	11000	2950	79	2600	3360	4470	---	---	91	---	---	---
23	1420	2940	81	2600	672	449	---	---	94	---	---	---
24	692	73	4300	2460	836	442	---	---	5520	---	---	---
25	3940	73	2610	3530	3290	10100	---	---	5480	---	---	---
26	2460	6710	2630	389	3090	9730	---	---	9670	---	---	---
27	120	6830	3280	441	3090	7360	---	---	9990	---	---	---
28	110	6830	2610	3310	2670	7510	---	---	10000	---	---	---
29	620	6800	79	3220	---	---	---	---	138	---	---	---
30	350	6960	79	3330	---	---	---	---	126	---	---	---
31	546	---	2620	3490	---	---	---	---	---	---	---	---
TOTAL	100094	79529	75873	72686	---	---	---	---	---	---	---	---
MEAN	3229	2651	2448	2345	---	---	---	---	---	---	---	---
MAX	11100	6960	5380	7920	---	---	---	---	---	---	---	---
MIN	110	66	69	81	---	---	---	---	---	---	---	---

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 Gage Height, 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 1990 TO SEPTEMBER 1991

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...	1000	23.22	36	34	6.5	6.8	13.5	10.0	7.8	76
MAR 13...	1030	24.00	36	35	7.2	6.9	11.0	10.5	11.2	105
JUN 12...	0730	23.77	40	38	7.7	7.7	26.0	22.0	7.3	92
AUG 14...	1530	25.00	37	34	6.6	6.7	20.5	20.5	7.1	80

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)
DEC 12...	3.0	0.3	<20	11	0.060	0.070	0.120	2.1	330	50
MAR 13...	4.0	0.2	<20	11	0.200	<0.030	0.160	<1.0	460	45
JUN 12...	1.0	0.4	<20	11	0.050	<0.030	0.060	2.6	50	13
AUG 14...	20	1.5	2300	12	0.120	0.110	0.420	3.8	390	28

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 Beaverdam Creek, 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. Datum of gage is 529.38 ft above National Geodetic Vertical Datum of 1929 (leveling by global positioning system equipment).

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

AVERAGE DISCHARGES.--5 years, 84.4 ft³/s, 15.92 in/yr.

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)
Mar. 30	0700	*899	*7.26	No other peak above base discharge.			

Minimum daily discharge, 33 ft³/s, Oct. 9.

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	36	53	42	71	178	88	193	235	87	83	65	64
2	35	52	42	67	133	231	163	173	124	78	65	57
3	35	49	50	65	114	296	144	146	94	75	63	52
4	36	49	91	64	106	247	132	134	83	75	59	51
5	37	52	72	63	100	160	130	170	81	80	54	49
6	36	53	61	62	100	131	126	350	74	75	51	47
7	34	51	57	71	103	132	115	209	70	70	50	57
8	34	49	59	79	95	128	108	161	68	65	48	52
9	33	57	57	75	88	119	120	160	66	64	53	63
10	34	99	54	71	84	106	132	255	64	63	69	60
11	41	78	52	142	80	98	116	197	62	60	64	52
12	154	65	51	284	77	93	105	233	59	63	84	48
13	156	59	51	190	79	140	106	225	61	60	97	46
14	90	56	52	154	114	150	112	184	66	56	88	44
15	68	54	51	138	97	122	111	155	94	53	93	42
16	57	54	51	144	79	103	106	141	73	72	77	41
17	50	52	51	133	75	96	97	139	77	175	68	40
18	48	49	52	118	77	99	92	122	162	240	62	39
19	50	47	55	117	76	95	99	122	209	140	60	38
20	46	47	55	149	88	88	129	143	179	113	55	40
21	44	47	60	144	149	88	105	126	145	94	50	40
22	104	47	60	126	126	83	93	115	113	81	48	36
23	282	47	60	114	171	82	87	109	98	75	48	35
24	160	45	93	117	147	80	85	103	156	69	47	36
25	112	45	86	128	121	75	80	96	119	64	49	58
26	104	45	74	116	107	73	80	95	101	64	70	72
27	79	44	69	108	97	73	105	122	118	63	79	54
28	69	45	68	104	91	91	248	108	129	61	65	45
29	62	45	67	103	---	295	258	101	107	60	60	42
30	57	44	68	243	---	637	433	90	92	68	94	40
31	55	---	76	331	---	279	---	83	---	74	79	---
TOTAL	2238	1579	1887	3891	2952	4578	4010	4802	3031	2533	2014	1440
MEAN	72.2	52.6	60.9	126	105	148	134	155	101	81.7	65.0	48.0
MAX	282	99	93	331	178	637	433	350	209	240	97	72
MIN	33	44	42	62	75	73	80	83	59	53	47	35
CFSM	1.00	.73	.85	1.75	1.46	2.06	1.86	2.15	1.40	1.14	.90	.67
IN.	1.16	.82	.97	2.01	1.53	2.37	2.07	2.48	1.57	1.31	1.04	.74

CAL YR 1990	TOTAL	40821	MEAN	112	MAX	2020	MIN	20	CFSM	1.56	IN	21.09
WTR YR 1991	TOTAL	34955	MEAN	95.8	MAX	637	MIN	33	CFSM	1.33	IN	18.06

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: Mar. 20-28, Apr. 4-9, 12-19, 22-27, May 22-31, June 1-15, 26, 27, 30, July 1-10. 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.--60 years (water years 1927-32, 1938-91), 1,773 ft³/s, 16.84 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 50,000 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)
Mar. 30	1900	*14,800	*17.94	No other peak greater than base discharge.			

Minimum daily discharge, 599 ft³/s, Oct. 9.

SAVANNAH RIVER BASIN

02192000 BROAD RIVER NEAR BELL, 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	626	974	922	1330	5940	1770	3570	6150	1750	2300	1250	1180
2	620	951	897	1210	2850	5390	2720	3110	2000	2000	1220	1210
3	609	931	925	1120	2260	7390	2320	2380	2200	1850	1460	1210
4	603	916	1460	1080	1970	7820	2140	2240	2000	1800	1220	1070
5	628	910	1640	1050	1780	4750	2100	2510	1850	2100	1060	1010
6	667	915	1270	1000	1710	2810	2050	5700	1700	2400	980	970
7	628	918	1120	1010	1820	2440	2100	5760	1570	2000	962	948
8	608	904	1110	1140	1710	2410	2050	3140	1450	1700	957	951
9	599	943	1100	1130	1560	2190	2100	2580	1410	1500	929	969
10	603	1680	1040	1090	1470	2080	2350	3800	1500	1250	1160	903
11	635	1720	1010	1670	1400	1870	2360	3950	1750	1200	1390	864
12	2270	1320	984	5670	1370	1800	2100	3980	2000	1230	1990	841
13	3830	1130	970	4100	1360	2170	2050	5020	2200	1160	3270	825
14	1850	1050	968	2390	1780	3220	2100	2810	2150	1080	1990	813
15	1170	1010	970	1830	2060	2420	2050	2320	2200	1030	2080	803
16	959	984	967	2440	1610	2010	1920	2240	2390	2220	1890	776
17	868	971	964	2280	1430	1850	1890	3210	2220	5200	1460	761
18	821	961	956	1720	1410	1840	1950	3430	2320	4440	1240	748
19	910	942	1010	1630	1450	1850	2050	2900	2910	3650	1130	775
20	923	932	1160	2920	1440	1810	2780	2950	3440	2880	1060	780
21	822	926	1440	2680	2800	1780	2590	2380	2730	1810	999	758
22	994	922	1500	1860	4490	1750	2100	2200	3360	1490	957	734
23	3530	920	1360	1540	7340	1700	1900	2150	2970	1310	921	713
24	3310	920	1730	1650	5100	1700	1750	2100	3570	1190	899	707
25	1890	916	2400	2440	2900	1680	1700	2050	3160	1170	924	810
26	1540	902	1670	2000	2320	1600	1750	1980	2170	1490	1430	1260
27	1320	899	1410	1600	2010	1650	2100	2050	2310	1430	3160	1090
28	1170	904	1290	1450	1800	1700	2800	2180	3660	1440	2200	893
29	1080	923	1260	1370	---	4450	3900	2200	3030	1290	1460	809
30	1030	930	1210	3820	---	13500	8520	2000	3000	1230	1350	764
31	996	---	1260	9350	---	9160	---	1750	---	1560	1250	---
TOTAL	38109	30224	37973	67570	67140	100560	73860	93220	70970	58400	44248	26945
MEAN	1229	1007	1225	2180	2398	3244	2462	3007	2366	1884	1427	898
MAX	3830	1720	2400	9350	7340	13500	8520	6150	3660	5200	3270	1260
MIN	599	899	897	1000	1360	1600	1700	1750	1410	1030	899	707
CFSM	.86	.70	.86	1.52	1.68	2.27	1.72	2.10	1.66	1.32	1.00	.63
IN.	.99	.79	.99	1.76	1.75	2.62	1.92	2.43	1.85	1.52	1.15	.70
CAL YR 1990	TOTAL	740270	MEAN	2028	MAX	34300	MIN	520	CFSM	1.42	IN	19.26
WTR YR 1991	TOTAL	709219	MEAN	1943	MAX	13500	MIN	599	CFSM	1.36	IN	18.45

SAVANNAH RIVER BASIN

02192000 BROAD RIVER NEAR BELL, GA.--Continued

WATER-QUALITY RECORDS

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

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 1990 TO SEPTEMBER 1991

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 15...	1050	1010	57	56	7.5	7.0	11.0	19.0	10.4	95
JAN 16...	1150	2500	54	50	7.2	6.8	8.0	17.5	11.2	97
MAR 13...	1120	1980	57	53	7.2	6.9	12.0	10.0	11.2	107
MAY 14...	1050	2780	51	49	7.2	6.8	21.0	25.0	6.6	76
AUG 14...	1430	1890	52	49	7.1	6.9	22.5	22.5	8.0	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- PHORU TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 15...	12	0.6	90	19	0.260	<0.030	0.040	6.2
JAN 16...	42	1.1	790	15	0.470	<0.030	0.070	5.5
MAR 13...	23	2.1	330	19	0.420	<0.030	0.120	3.4
MAY 14...	50	1.0	640	16	0.410	<0.030	0.090	4.1
AUG 14...	54	1.3	1700	16	0.310	0.090	0.230	7.8

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.--No estimated daily discharges. Records good for discharges greater than or equal to 10 ft³/s and fair for discharges less than 10 ft³/s.

AVERAGE DISCHARGE.--5 years, 22.7 ft³/s, 9.09 in/yr.

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)
Jan. 30	1515	1,360	9.88	May 17	1800	743	7.62
Mar. 2	0515	1,240	9.44	Aug. 11	2200	1,570	10.56
Mar. 3	1100	751	7.65	Aug. 26	1430	*2,640	*13.77
Mar. 29	1915	1,290	9.65				

Minimum daily discharge, 3.5 ft³/s, Oct. 3.

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	3.7	5.6	5.5	11	43	72	27	58	14	11	13	18
2	3.6	5.7	5.8	9.4	30	521	23	41	15	10	14	16
3	3.5	5.7	7.1	9.1	25	359	20	33	13	11	12	15
4	5.0	5.9	12	8.9	21	137	19	40	12	43	10	14
5	8.3	6.5	7.3	8.5	19	44	22	114	11	37	9.2	13
6	5.4	7.0	6.0	8.2	22	33	21	146	10	27	8.6	12
7	4.6	7.1	6.1	8.5	22	28	28	52	9.9	23	8.3	12
8	4.6	7.0	8.9	9.4	19	23	47	36	9.6	16	8.9	12
9	4.2	11	7.1	8.8	17	21	51	36	9.1	14	12	11
10	6.7	29	6.0	8.4	16	19	143	110	8.9	11	17	10
11	13	12	5.6	32	15	17	61	49	8.6	10	177	9.9
12	113	9.4	5.6	56	14	17	50	46	9.0	12	183	9.7
13	14	8.7	5.4	28	14	41	46	58	9.2	8.9	81	9.4
14	6.4	7.7	5.5	17	20	30	43	38	9.4	7.7	47	9.0
15	4.6	7.3	5.6	20	16	22	41	31	22	8.6	40	8.7
16	4.1	7.4	5.6	105	14	19	36	38	11	16	29	8.6
17	3.8	7.3	5.5	27	15	19	34	164	9.6	32	24	8.5
18	5.7	6.8	5.8	17	15	21	32	65	48	46	21	8.4
19	5.9	6.5	20	54	15	19	58	73	26	43	20	8.1
20	4.5	6.3	18	97	15	17	65	45	34	21	18	7.9
21	4.3	6.3	26	33	16	16	41	36	22	15	17	7.8
22	21	6.5	17	21	20	15	33	32	13	13	16	7.7
23	113	6.2	14	17	76	15	30	28	10	11	16	7.8
24	19	5.9	14	84	31	14	28	24	119	10	16	7.6
25	11	5.5	12	78	23	13	25	23	23	13	25	12
26	8.9	5.3	11	32	20	13	26	21	16	63	911	11
27	7.3	5.2	9.7	23	17	13	56	27	28	91	104	8.3
28	6.6	5.6	9.2	20	16	14	73	24	25	23	42	7.7
29	6.2	6.2	9.1	18	---	322	128	19	16	20	30	7.5
30	5.9	6.0	8.9	447	---	135	151	16	13	16	24	7.5
31	5.9	---	11	128	---	37	---	15	---	13	21	---
TOTAL	433.7	228.6	296.3	1444.2	606	2086	1458	1538	584.3	696.2	1975.0	306.1
MEAN	14.0	7.62	9.56	46.6	21.6	67.3	48.6	49.6	19.5	22.5	63.7	10.2
MAX	113	29	26	447	76	521	151	164	119	91	911	18
MIN	3.5	5.2	5.4	8.2	14	13	19	15	8.6	7.7	8.3	7.5
CFSM	.41	.23	.28	1.38	.64	1.99	1.43	1.46	.58	.66	1.88	.30
IN.	.48	.25	.33	1.58	.66	2.29	1.60	1.69	.64	.76	2.17	.34

CAL YR 1990 TOTAL 9126.01 MEAN 25.0 MAX 1170 MIN .28 CFSM .74 IN 10.01
WTR YR 1991 TOTAL 11652.40 MEAN 31.9 MAX 911 MIN 3.5 CFSM .94 IN 12.79

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. Datum of gage is 353.88 ft above National Geodetic Vertical Datum of 1929 (leveling by global positioning system equipment). October 1, 1949 to June 23, 1971, recording gage at same site and approximately same datum.

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

AVERAGE DISCHARGE.--23 years (water years 1950-70, 1990-91), 258 ft³/s, 12.04 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.--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)
Mar. 4	0900	*3,200	*17.44	No other peak greater than base discharge.			

Minimum daily discharge, 5.9 ft³/s, Oct. 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	50	42	90	2080	159	943	834	103	102	113	198
2	7.1	46	41	97	942	1560	367	375	246	87	125	184
3	6.0	43	44	88	427	2460	264	225	148	137	122	166
4	5.9	42	61	81	326	3070	212	174	113	210	95	130
5	8.6	42	67	73	269	2060	216	590	92	595	82	112
6	8.5	40	63	70	250	899	279	1560	80	427	72	98
7	8.3	38	56	75	307	475	227	1090	71	230	67	89
8	7.1	38	69	84	262	351	190	413	65	146	63	83
9	8.0	54	74	81	216	274	177	266	60	122	78	79
10	9.7	288	63	74	188	226	899	501	57	97	111	72
11	16	187	56	176	167	193	891	404	54	79	198	69
12	370	117	51	521	151	177	429	297	50	80	1450	64
13	395	86	50	465	143	262	280	973	51	67	966	60
14	143	68	50	288	186	441	239	396	52	54	351	57
15	81	59	50	209	183	296	211	237	62	47	357	55
16	58	55	51	1050	144	217	182	339	97	195	232	52
17	47	52	51	672	130	196	156	1500	74	887	165	50
18	46	50	52	321	130	208	138	1550	122	904	131	49
19	50	49	89	333	124	205	155	1490	210	636	111	48
20	46	51	129	1060	121	176	498	727	263	344	100	45
21	41	50	202	763	121	156	258	399	394	239	86	44
22	95	47	178	390	124	145	170	288	172	187	78	43
23	1180	47	137	271	441	139	139	241	114	153	74	43
24	776	46	125	463	673	132	126	202	278	126	71	43
25	238	45	112	1260	385	118	112	179	310	104	307	47
26	138	43	95	774	253	110	104	162	313	124	1400	63
27	99	43	82	393	200	106	175	185	171	397	2590	69
28	82	44	76	298	169	109	496	245	216	326	1380	55
29	69	46	74	257	---	456	748	199	200	429	391	45
30	60	47	73	1200	---	1840	1260	142	136	233	256	41
31	55	---	83	2590	---	1670	---	118	---	140	217	---
TOTAL	4161.1	1913	2446	14567	9112	18886	10541	16301	4374	7904	11839	2253
MEAN	134	63.8	78.9	470	325	609	351	526	146	255	382	75.1
MAX	1180	288	202	2590	2080	3070	1260	1560	394	904	2590	198
MIN	5.9	38	41	70	121	106	104	118	50	47	63	41
CFSM	.46	.22	.27	1.61	1.12	2.09	1.21	1.81	.50	.88	1.31	.26
IN.	.53	.24	.31	1.86	1.16	2.41	1.35	2.08	.56	1.01	1.51	.29
CAL YR 1990	TOTAL	75832.7	MEAN	208	MAX	5390	MIN	5.9	CFSM	.71	IN.	9.69
WTR YR 1991	TOTAL	104297.1	MEAN	286	MAX	3070	MIN	5.9	CFSM	.98	IN.	13.33

SAVANNAH RIVER BASIN

02193750 LITTLE RIVER AT U.S. HIGHWAY 78 NEAR WASHINGTON, GA.

LOCATION.--Lat 33°38'15", long 82°35'44", McDuffie-Wilkes County line, Hydrologic Unit 03060105, at U.S. Highway 78, at mouth, in Thurmond Lake, 0.7 miles downstream from Rocky Creek, and 11 miles southeast of Washington.

DRAINAGE AREA.--400 mi².

PERIOD OF RECORD.--July 1991 to September 1991.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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...	1000	15.04	98	92	6.8	6.9	26.5	33.0	5.1	64
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...	31	1.2	330	31	0.150	0.090	0.120	7.2		

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 current year.

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 1990 TO SEPTEMBER 1991

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...	0800	15500	45	41	6.6	6.6	19.5	19.0	8.0	88
NOV 20...	0930	6380	51	48	7.0	6.8	15.5	11.5	8.6	86
DEC 20...	0930	6810	53	51	7.2	6.9	14.0	11.5	8.9	86
JAN 24...	1000	3800	48	47	7.2	6.9	10.0	6.0	10.6	93
FEB 21...	0900	7080	58	57	7.2	6.9	11.0	18.0	10.4	94
MAR 14...	0900	7960	56	54	7.3	7.0	12.0	16.5	10.0	94
APR 17...	0830	--	55	54	7.0	6.9	13.5	21.5	9.4	90
MAY 23...	0800	5940	54	51	6.9	6.8	16.5	24.5	9.6	98
JUN 19...	0930	6030	57	52	6.8	6.7	21.0	26.0	5.1	57
JUL 24...	0830	5180	53	50	6.7	6.5	21.5	29.5	4.5	51
AUG 15...	0800	10000	57	52	6.7	6.6	21.5	21.0	6.0	68
SEP 19...	0800	5770	53	48	6.6	6.5	22.0	28.5	4.1	47

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 24...	70	2.2	7900	12	0.070	0.060	0.090	16
NOV 20...	6.0	1.1	<20	15	0.140	<0.030	0.090	2.9
DEC 20...	5.0	0.6	<20	16	0.120	0.030	0.050	3.4
JAN 24...	7.0	0.2	<20	14	0.130	0.060	0.100	4.2
FEB 21...	7.0	--	<20	16	0.140	<0.030	0.040	4.0
MAR 14...	9.0	0.3	20	18	0.140	0.040	0.040	5.0
APR 17...	6.0	1.6	--	15	0.250	0.040	0.090	4.6
MAY 23...	10	1.0	20	14	0.190	0.040	0.040	4.1
JUN 19...	15	1.1	80	16	0.220	0.040	0.120	4.8
JUL 24...	8.0	0.5	50	15	0.150	<0.030	<0.030	4.0
AUG 15...	14	0.8	<20	17	0.160	0.040	0.140	6.1
SEP 19...	3.0	1.3	20	16	0.130	<0.030	<0.020	3.1

SAVANNAH RIVER BASIN

02196484 SAVANNAH RIVER NEAR NORTH AUGUSTA, SC.

LOCATION.--Lat 33°33'06", long 82°02'19", Edgefield County, S.C.-Columbia County, Ga., Hydrologic Unit 03060106, at Augusta City Lock and Dam, 1.0 mi downstream from Stevens Creek Dam, and at mile 206.

DRAINAGE AREA.--7,150 mi².

PERIOD OF RECORD.--October 1988 to current year.

GAGE.--Data-collection platform. Elevation of gage is 150 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

REMARKS.--Estimated daily discharges: Nov. 22-30, Dec. 6-10, Apr. 16-19, May 2-3, 5-6, Aug. 8-9. Records fair, except those less than 5,000 ft³/s, and those for the 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.)

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,200 ft³/s, Oct. 12, 1990, gage height, 12.57 ft; minimum daily discharge, 65 ft³/s, Mar. 18, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 54,200 ft³/s, Oct. 12, gage height, 12.57 ft; minimum daily discharge, 1,220 ft³/s, Mar. 22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2120	7760	3490	5130	13300	6140	6490	12200	8430	11100	9730	3260
2	5540	5520	4910	5690	5320	8050	14800	14000	9370	16800	11300	3370
3	5650	3470	7360	6760	4590	16300	20800	16500	9980	16400	11700	2870
4	4370	4900	8240	6480	7230	24200	22100	19200	7780	16000	10300	3600
5	2440	5900	8030	4380	5410	13700	22500	21000	7200	16400	17100	2220
6	3060	6550	6500	4280	4190	15000	11200	23000	4620	11400	18600	1930
7	3760	7440	5500	6160	3670	18900	3980	25800	4500	8020	17700	2220
8	4990	6340	4500	6100	4510	20800	2820	24200	3360	5140	14000	4500
9	5150	4680	6000	5710	4190	22600	7240	23500	3330	6020	11000	4740
10	4180	7040	8000	3610	5270	23100	11500	19500	4560	6720	8540	7470
11	4000	8870	6980	2400	6970	17800	15200	10800	3050	6400	7200	8700
12	36500	5750	2500	6790	7450	9250	13100	7600	5150	5310	6810	8450
13	33200	4960	3550	10000	10500	7620	8220	9660	4240	2830	17000	7110
14	20600	5450	4340	6260	11000	8270	3240	15100	5530	3590	18300	4740
15	5960	5600	3640	2400	8260	7750	8870	14400	7980	4310	20300	2990
16	3260	1770	4280	4340	8170	4900	12500	14400	7210	8250	18300	5310
17	4830	3670	6770	8220	4430	5080	12000	15600	4370	7390	17300	6090
18	4260	4530	5520	4570	4200	2250	11000	12700	7260	8350	9560	5840
19	2070	5980	4270	4730	6400	3190	10500	10300	6400	8180	4590	6570
20	2120	6160	6190	7760	7300	3090	10200	15500	7500	3800	8160	5670
21	3630	4220	5520	8990	7120	2980	4810	15500	5270	4840	13800	1390
22	6900	5000	5000	4800	6090	1220	5160	15000	3870	5460	19000	4730
23	12000	5600	6310	3910	5660	2210	7680	14400	5590	4410	13500	7460
24	17900	4800	8580	4140	5690	2860	6650	14400	3630	5700	14600	7490
25	11400	4500	9060	8750	7320	4840	6640	11500	4220	6640	11700	7300
26	5600	6000	7490	7040	8360	7800	6250	8560	8730	4850	9380	5880
27	3210	6500	7730	7050	8320	7170	2690	13600	14300	3190	9950	4840
28	3730	4500	7130	5880	8330	7680	2820	17300	13600	4840	6500	3140
29	6740	5000	6060	4190	---	4450	6200	16700	10100	9700	18000	4870
30	8050	5400	5150	9070	---	9660	12600	13600	6980	13400	15500	5040
31	7910	---	6190	15100	---	13200	---	12500	---	11400	8150	---
TOTAL	245130	163860	184790	190690	189250	302060	289760	478020	198110	246840	397570	149790
MEAN	7907	5462	5961	6151	6759	9744	9659	15420	6604	7963	12820	4993
MAX	36500	8870	9060	15100	13300	24200	22500	25800	14300	16800	20300	8700
MIN	2070	1770	2500	2400	3670	1220	2690	7600	3050	2830	4590	1390

CAL YR 1990	TOTAL 3099460	MEAN 8492	MAX 36500	MIN 298	MEAN† 7951	CFSM† 1.11	IN† 15.10
WTR YR 1991	TOTAL 3035870	MEAN 8317	MAX 36500	MIN 1220	MEAN† 9294	CFSM† 1.30	IN† 17.65

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

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 current year.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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										
23...	1500	10.56	139	134	6.7	6.6	21.0	22.0	3.4	39
NOV										
19...	1430	4.73	440	450	7.2	6.9	15.0	22.5	6.3	63
DEC										
19...	1445	--	410	391	7.2	7.0	18.0	19.5	5.3	56
JAN										
23...	1530	5.72	323	309	7.0	6.8	9.0	11.0	8.9	77
FEB										
20...	1500	7.73	405	404	6.9	6.8	19.0	29.0	6.3	67
MAR										
13...	1630	9.47	264	251	7.0	6.7	16.5	26.0	5.9	61
APR										
16...	1600	10.98	369	367	6.9	6.9	24.0	29.0	3.1	37
MAY										
22...	1430	12.57	290	254	6.7	6.6	23.0	26.0	1.6	19
JUN										
18...	1500	8.40	292	290	6.7	6.8	27.0	34.0	3.5	44
JUL										
23...	1500	8.40	200	198	6.7	6.6	29.0	33.5	3.4	44
AUG										
14...	1515	15.72	228	227	6.8	6.7	25.0	28.0	1.5	18
SEP										
18...	1530	6.07	590	555	6.9	7.1	29.5	30.5	4.5	59

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								
23...	65	2.2	3100	26	0.350	1.06	0.510	13
NOV								
19...	14	6.4	3300	77	0.360	2.61	16.3	11
DEC								
19...	15	--	24000	70	1.72	2.55	7.50	<1.0
JAN								
23...	17	2.9	20	40	1.47	2.31	1.42	9.7
FEB								
20...	19	9.0	330	50	1.02	3.95	1.46	11
MAR								
13...	87	5.4	170	38	0.670	1.49	0.870	7.1
APR								
16...	25	8.4	>240000	62	0.730	1.65	2.18	11
MAY								
22...	16	5.4	7000	40	<0.330	1.58	1.63	7.7
JUN								
18...	68	5.6	54000	43	0.090	0.800	5.80	8.6
JUL								
23...	19	1.5	35000	33	0.480	0.840	0.920	11
AUG								
14...	15	3.0	160000	40	0.380	1.62	0.770	12
SEP								
18...	9.0	3.1	3300	73	1.02	0.250	4.15	8.2

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.--Data-collection platform. 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: Dec. 14-18, Mar. 29-31, Apr. 13 to May 5, May 31 to June 3, June 29 to July 1, July 8, 9, 12-17. Records fair, 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.--84 years (1884-91, 1897-1906, 1926-91), 9,993 ft³/s, 18.08 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, 59,200 ft³/s, Oct. 13, gage height, 22.80 ft; minimum daily discharge, 4,310 ft³/s, Oct. 6, 7.

SAVANNAH RIVER BASIN

02197000 SAVANNAH RIVER AT AUGUSTA, GA.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	4670	8570	5280	5510	14300	8790	10700	13000	14600	14700	13900	6260	
2	4650	8270	4810	5870	10900	9720	12500	14000	15700	14600	14500	5090	
3	5600	5320	6740	6520	8720	14900	19900	15000	13300	16000	15100	4920	
4	5590	5580	8330	6830	9610	26300	22500	16000	11000	15700	13000	5310	
5	5060	7090	8620	5720	9190	22100	23100	17000	8950	16100	15000	5590	
6	4310	7770	8760	4910	8570	16900	18400	22800	7260	14000	19900	5310	
7	4310	8180	8470	6310	7590	20600	9160	27600	6930	9330	19400	4650	
8	4790	7580	5830	7350	8560	21600	6680	26400	6190	9390	17200	6510	
9	5940	6990	4660	7420	7410	24000	7990	25600	5160	8030	13700	6400	
10	6640	7120	7650	5840	8110	24600	12000	22900	6060	9460	10900	8890	
11	6550	9230	8630	4940	8730	22900	16200	17500	5530	9570	9690	9950	
12	28700	8200	5560	6690	9710	14700	16200	11300	7490	8430	9880	9900	
13	49200	6570	4890	10200	10500	11700	14000	10300	6740	8240	13700	10500	
14	29600	6690	5050	9330	11900	10700	10000	16000	8120	9260	20200	7370	
15	17000	7460	5400	5380	10400	10600	8000	16600	7960	10700	21400	6300	
16	10200	5250	5000	6050	10000	7770	10000	16000	9660	12000	21000	6980	
17	8300	4650	4800	9090	8460	7360	12000	16200	6390	11500	19100	7890	
18	8430	5000	7070	7540	7410	5890	11500	16000	9140	11400	17000	7670	
19	5700	5830	6360	5860	8420	5870	11000	12900	8410	12300	8290	7960	
20	4610	6990	6950	7870	9350	6360	10000	15400	8950	9750	9240	7620	
21	4900	4930	7380	10400	9400	6160	8400	17600	8670	7880	13900	4910	
22	7600	5210	5520	7780	8640	5230	7800	17200	5890	8470	18400	4870	
23	11500	5790	6320	6680	8400	4530	9000	16500	7190	9130	16600	8050	
24	19400	4980	7800	6730	8130	4670	8800	16500	6440	7890	14700	9200	
25	16700	4710	8400	8650	9490	5840	8600	14900	6160	9830	14400	8250	
26	10600	5590	7420	9650	10200	9160	8000	11700	7870	9160	12100	8130	
27	6000	7180	6960	7310	10200	9190	7600	12400	15400	6200	11900	6540	
28	5410	4880	7720	7980	10100	9380	7000	17000	15400	7270	8700	5440	
29	7380	5090	6510	7020	---	7910	9000	18000	14900	9930	15500	6410	
30	9760	6300	5660	9650	---	11600	11000	17100	15200	15600	17100	6610	
31	8900	---	5920	13000	---	14500	---	14400	---	16200	13600	---	
TOTAL	328000	193000	204470	230080	262400	381530	347030	521800	276660	338020	459000	209480	
MEAN	10580	6433	6596	7422	9371	12310	11570	16830	9222	10900	14810	6983	
MAX	49200	9230	8760	13000	14300	26300	23100	27600	15700	16200	21400	10500	
MIN	4310	4650	4660	4910	7410	4530	6680	10300	5160	6200	8290	4650	
CAL YR 1990	TOTAL 3878790		MEAN 10630		MAX 49200		MIN 4310		MEAN† 10090		CFSM† 1.34		IN† 18.25
WTR YR 1991	TOTAL 3751470		MEAN 10280		MAX 49200		MIN 4310		MEAN† 11260		CFSM† 1.50		IN† 20.37

†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.--October 1949 to September 1950, February 1968 to September 1972, July 1973 to September 1986, November 1989 to current year.

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.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1973 to September 1986, November 1989 to current year.

INSTRUMENTATION.--Data-collection platform.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 26.5°C, Aug. 14-17, 1981; minimum, 4.5°C, Feb. 19, 20, 1979.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 25.5°C, Aug. 22, Sept. 3, 7; minimum, 8.0°C, Jan. 26, 27, Feb. 16, 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 23...	1530	11800	61	57	7.0	7.0	21.0	23.0	6.9	78
NOV 19...	1500	5660	63	59	7.4	7.0	16.5	23.5	9.4	96
DEC 19...	1530	6060	62	62	--	6.9	15.0	19.5	9.7	96
JAN 23...	1600	6100	61	59	7.1	6.8	11.0	11.0	9.5	86
FEB 20...	1600	9220	62	56	7.4	7.1	12.5	29.0	11.0	102
MAR 13...	1700	10600	56	55	7.3	6.7	13.0	26.0	10.0	96
APR 16...	1645	12800	58	53	7.1	6.8	15.0	29.0	9.6	95
MAY 22...	1445	13800	55	51	6.7	6.7	17.5	26.5	8.7	91
JUN 18...	1530	9330	56	51	7.0	6.9	23.5	35.0	8.4	99
JUL 23...	1530	9160	60	58	6.8	6.8	24.5	34.0	7.9	95
AUG 14...	1545	18200	58	62	6.8	6.5	20.5	28.0	7.4	82
SEP 18...	1600	7290	58	52	6.7	6.7	24.5	30.5	7.0	84

SAVANNAH RIVER BASIN

02197000 SAVANNAH RIVER AT AUGUSTA, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 23...	17	2.0	900	18	0.210	0.120	0.100	4.9
NOV 19...	4.0	0.7	<20	15	0.350	0.060	0.140	5.3
DEC 19...	3.0	--	70	17	0.400	0.060	0.120	2.4
JAN 23...	17	1.5	130	14	0.270	0.110	0.070	5.3
FEB 20...	4.0	0.8	<20	16	0.310	0.130	0.090	4.2
MAR 13...	7.0	0.5	<20	14	0.310	0.130	0.140	2.5
APR 16...	6.0	0.8	310	15	0.320	0.140	0.070	4.0
MAY 22...	8.0	0.8	50	15	0.300	0.090	0.070	2.9
JUN 18...	8.0	0.7	140	15	0.250	0.040	0.160	3.2
JUL 23...	9.0	0.9	700	16	0.180	0.130	0.090	5.2
AUG 14...	6.0	1.3	220	18	0.230	0.100	0.090	3.7
SEP 18...	2.0	0.9	60	16	0.150	0.060	0.150	2.8

SAVANNAH RIVER BASIN

02197000 SAVANNAH RIVER AT AUGUSTA, GA.--Continued

WATER TEMPERATURE, DEGREES CELSIUS, 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	23.0	22.5	19.5	19.0	16.0	15.0	14.0	13.5	11.5	11.0	12.0	11.0
2	23.5	23.0	20.0	19.0	15.5	15.0	13.0	12.5	11.0	10.5	12.5	10.5
3	24.0	23.5	20.0	19.0	16.5	15.0	12.5	12.0	11.0	10.5	14.5	12.0
4	23.5	23.0	20.0	19.5	16.5	16.0	12.5	12.0	11.0	10.5	13.5	13.0
5	24.0	23.0	20.0	20.0	15.5	14.0	12.5	12.0	11.5	10.5	13.5	12.5
6	23.5	23.0	20.0	19.5	14.5	13.5	13.0	12.0	11.5	11.0	13.5	13.0
7	23.5	22.5	19.5	19.0	14.0	13.5	13.0	12.5	12.0	11.5	13.0	12.5
8	24.0	23.0	19.5	19.0	13.5	12.5	13.0	12.5	11.5	11.5	13.0	11.5
9	24.0	23.5	18.5	18.0	13.5	12.5	12.5	11.5	11.5	11.0	12.0	11.0
10	24.0	23.0	18.0	16.5	13.0	12.5	11.5	11.5	11.5	11.0	12.0	11.5
11	23.0	22.0	16.5	15.0	13.5	12.0	12.0	11.5	11.5	11.0	12.0	11.5
12	22.0	21.5	15.5	14.0	13.5	13.0	11.5	11.5	11.5	11.0	12.5	11.5
13	21.5	21.0	16.0	15.0	14.0	13.5	11.5	10.0	11.0	10.5	12.5	12.5
14	21.5	21.0	17.0	16.0	14.0	13.5	10.5	10.0	11.5	11.0	12.5	12.5
15	22.0	21.5	17.0	16.5	14.5	14.0	11.0	10.0	11.5	9.5	12.5	12.0
16	22.5	22.0	17.0	16.5	14.0	13.5	11.5	11.0	9.5	8.0	12.5	12.0
17	22.5	22.0	17.5	16.5	14.0	14.0	12.0	10.5	9.0	8.0	12.5	12.0
18	22.5	22.0	17.0	16.5	15.0	14.0	11.5	10.5	9.5	8.5	12.5	12.0
19	22.0	21.5	16.5	16.0	15.0	14.5	11.0	11.0	11.0	9.5	13.5	12.5
20	21.5	21.0	16.0	15.5	15.0	14.5	11.0	10.5	12.5	11.0	14.0	13.5
21	21.0	20.5	16.5	15.5	14.5	14.0	11.0	10.0	12.5	12.0	14.5	14.0
22	21.5	20.5	16.5	16.0	14.0	13.5	10.0	9.5	13.0	12.5	15.0	14.5
23	21.5	21.5	17.0	16.5	14.5	14.0	9.5	9.0	12.5	11.5	16.0	15.0
24	21.0	20.0	17.0	16.5	14.5	14.0	9.5	9.0	11.5	11.0	16.5	16.0
25	20.5	19.5	17.0	16.5	14.0	12.5	9.5	9.0	12.0	10.5	17.0	16.0
26	19.0	18.5	16.5	16.0	12.5	12.0	9.0	8.0	11.5	10.5	16.0	15.0
27	19.0	18.5	16.5	16.0	12.0	12.0	9.0	8.0	10.5	10.5	15.5	15.0
28	18.5	18.5	17.0	16.5	12.0	11.5	9.5	8.5	11.0	10.5	15.5	14.5
29	19.0	18.5	18.0	17.0	12.0	12.0	10.5	9.5	---	---	---	---
30	19.0	18.0	17.0	16.0	13.5	12.5	11.5	10.5	---	---	---	---
31	19.5	18.5	---	---	14.5	13.0	11.5	11.0	---	---	15.5	14.0
MONTH	24.0	18.0	20.0	14.0	16.5	11.5	14.0	8.0	13.0	8.0	17.0	10.5

[illegible]

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 current year.

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). Discharge obtained from gaging station 02197000 (Savannah River at Augusta, Ga.).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 23...	1400	11200	68	65	7.0	7.0	21.0	23.0	7.4	84
NOV 19...	1345	5410	65	73	7.2	7.0	16.5	22.5	10.0	102
DEC 19...	1415	6150	69	68	7.3	6.8	15.0	19.5	10.1	100
JAN 23...	1415	6190	73	74	7.0	6.7	9.0	11.0	11.4	98
FEB 20...	1400	9220	67	64	7.2	7.0	12.5	29.0	10.7	99
MAR 13...	1530	10700	65	69	7.1	6.8	13.0	26.0	10.0	96
APR 16...	1530	12800	65	66	7.1	6.9	15.5	29.0	9.5	95
MAY 22...	1440	13800	64	60	7.0	6.7	18.5	26.0	8.9	95
JUN 18...	1415	9400	65	61	6.8	7.0	23.0	34.0	8.6	101
JUL 23...	1430	9280	66	66	6.5	6.7	24.0	33.5	7.6	90
AUG 14...	1445	17900	63	59	6.8	6.7	20.5	28.0	7.3	81
SEP 18...	1445	7200	71	61	6.6	6.9	24.0	30.5	8.1	97

SAVANNAH RIVER BASIN

02197065 SAVANNAH RIVER BELOW SPIRIT CREEK NEAR AUGUSTA, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 23...	17	27	0.8	4600	20	11
NOV 19...	5.0	5	0.9	110	16	3
DEC 19...	4.0	14	--	80	17	1
JAN 23...	19	22	1.8	80	15	--
FEB 20...	4.0	6	0.3	70	15	4
MAR 13...	10	9	0.5	50	15	8
APR 16...	8.0	10	0.9	3300	20	7
MAY 22...	9.0	6	1.1	230	16	5
JUN 18...	12	13	0.9	310	15	4
JUL 23...	10	7	0.1	17000	16	5
AUG 14...	6.0	<5	1.2	11000	16	7
SEP 18...	3.0	8	1.3	<20	17	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)
OCT 23...	0.240	0.150	0.35	0.50	0.74	0.140	5.2
NOV 19...	0.260	0.130	0.17	0.30	0.56	0.320	5.1
DEC 19...	0.350	0.080	0.12	0.20	0.55	0.200	4.4
JAN 23...	0.290	0.190	0.21	0.40	0.69	0.140	5.6
FEB 20...	0.300	3.26	--	--	--	0.110	4.6
MAR 13...	0.270	0.140	0.16	0.30	0.57	0.150	2.2
APR 16...	0.340	0.070	0.43	0.50	0.84	0.120	3.7
MAY 22...	0.260	0.080	0.12	0.20	0.46	0.110	2.2
JUN 18...	0.280	0.060	0.24	0.30	0.58	0.180	3.8
JUL 23...	0.210	0.100	0.20	0.30	0.51	0.140	8.3
AUG 14...	0.220	0.060	0.24	0.30	0.52	0.100	4.0
SEP 18...	0.160	0.040	0.16	0.20	0.36	0.200	2.9

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, 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.

REVISED RECORDS.--WDR SC-90-1: 1983.

GAGE.--Data-collection platform. Datum of gage is 77.0 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Nov. 19-21, Jan. 8-10, Feb. 7-10. Records fair, 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, Oct. 14; gage height, 20.05 ft; minimum daily discharge, 4,670 ft³/s, Oct. 7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5000	9370	6540	6110	16900	10400	14800	14800	17100	10800	17200	12700
2	4860	8970	5470	5870	16900	9750	12600	15900	14300	12400	17700	7470
3	5210	7530	5810	6360	12800	12300	15500	17400	12700	15400	18300	6060
4	5640	5960	7810	7020	10100	18000	18200	18800	13100	16400	17800	5760
5	5500	6620	8970	6770	10400	20900	19900	19700	11500	17100	16400	6170
6	4900	7910	8890	5620	9230	21500	21000	20300	9590	17300	17500	5930
7	4640	8180	9190	5610	7560	20500	19300	21100	7520	15200	18800	5640
8	4660	8320	7780	7800	10000	20600	13900	---	7290	12000	19500	5850
9	5310	7730	5870	8000	8500	21000	9830	---	6320	9540	18600	6850
10	6510	7560	6040	7000	9000	21600	11600	---	5960	9820	16500	7660
11	7400	9180	8950	5930	7900	---	14500	---	7080	10400	13900	9730
12	12000	9830	7800	5870	9450	---	16500	20000	6870	9970	12400	10300
13	---	8050	5560	9370	10400	19000	16800	16500	7900	8260	12500	10800
14	---	7240	5550	10800	12400	15900	13900	15800	7890	7290	16500	9250
15	---	7580	5780	8200	12700	14200	9080	17100	8660	6560	18900	7540
16	---	7210	5450	6470	11000	11800	12700	17500	10000	8960	20300	6530
17	16500	5480	5380	8080	10400	8810	15300	17700	8440	11600	20700	7730
18	12900	5490	7740	9790	7010	7840	16200	17900	8450	12700	20300	8300
19	9500	6920	7100	7220	7600	6600	16300	17300	9450	13800	17600	8350
20	6570	8140	6440	7970	8900	6710	16000	16300	8990	13800	13100	8170
21	5680	7040	8100	10100	9570	6730	13200	17200	10100	10700	13300	6780
22	6350	5430	7110	10700	9400	6270	8270	17900	8040	9340	15600	5410
23	11500	6150	6380	8280	8360	5580	8410	18100	7260	10200	17500	6370
24	16300	5750	7190	7470	8390	5420	9360	18100	7300	9140	17300	9340
25	18400	5400	8320	8410	8430	5590	9240	17800	6800	9690	16900	8480
26	17200	5310	8340	10800	9940	7800	9240	16500	7000	10600	15800	8920
27	12100	7090	7330	9650	10800	9540	8020	14200	12100	8520	14200	8040
28	7880	6490	7850	8690	10700	9390	7180	15600	15300	7640	12300	6590
29	6940	5370	7150	8650	---	9730	6860	17300	15900	8930	11800	6220
30	9310	5850	6250	8900	---	10500	11000	18100	13600	13600	16100	6400
31	9920	---	5870	13500	---	13600	---	17900	---	16700	16600	---
TOTAL	---	213150	218010	251010	284740	---	394690	---	292510	354360	511900	229340
MEAN	---	7105	7033	8097	10170	---	13160	---	9750	11430	16510	7645
MAX	---	9830	9190	13500	16900	---	21000	---	17100	17300	20700	12700
MIN	4640	5310	5380	5610	7010	5420	6860	14200	5960	6560	11800	5410

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.--Data-collection platform.

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, 26.5°C Aug. 22; minimum, 7.0°C Jan. 27.

WATER TEMPERATURE, DEGREES CELSIUS, 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	23.5	22.5	18.5	17.5	15.5	15.0	13.0	12.5	11.0	10.5	12.0	11.0
2	23.5	22.5	19.0	18.0	15.0	14.5	12.5	12.5	10.5	10.0	12.5	12.0
3	24.0	23.0	19.0	18.5	15.5	15.0	12.5	12.0	10.5	10.0	13.0	12.5
4	24.0	23.5	19.5	18.5	15.5	15.5	12.0	11.5	11.0	10.5	12.5	12.0
5	24.0	23.0	20.0	19.0	15.0	14.0	12.0	11.5	11.0	10.5	12.5	12.0
6	23.5	23.0	20.0	19.0	14.0	13.0	12.5	12.0	11.5	11.0	13.0	12.0
7	24.0	23.0	19.5	18.5	13.0	12.5	13.0	12.5	13.0	11.5	13.5	13.0
8	24.5	23.0	19.0	18.0	13.0	12.5	13.0	12.0	---	---	13.0	12.5
9	24.0	23.5	18.0	17.0	12.5	12.0	---	---	---	---	12.5	11.5
10	24.0	23.0	17.0	16.5	12.5	11.5	---	---	---	---	11.5	11.0
11	23.0	22.0	16.0	15.5	12.5	12.0	---	---	---	---	11.5	10.5
12	22.0	21.5	15.5	14.5	12.5	12.5	11.5	11.0	11.5	11.0	12.0	11.0
13	22.0	21.5	15.0	14.0	13.0	12.5	11.0	10.5	11.0	11.0	12.5	12.0
14	22.0	21.5	15.5	15.0	13.5	13.0	10.5	9.5	11.5	11.0	13.0	12.5
15	21.5	21.0	16.5	15.0	13.5	13.0	10.5	9.0	11.0	9.5	13.0	12.0
16	21.5	21.0	16.5	15.5	14.0	13.0	11.5	10.5	9.5	8.5	12.0	11.5
17	21.5	21.0	16.5	16.0	14.0	13.5	11.5	11.0	8.5	7.5	12.0	12.0
18	22.0	21.5	16.0	15.5	14.5	13.5	11.5	10.0	9.5	7.5	13.5	12.0
19	22.0	20.5	---	---	14.5	14.5	10.5	10.0	11.0	9.5	14.0	13.0
20	20.5	20.0	---	---	14.5	14.0	10.5	10.5	12.5	11.0	14.5	13.5
21	20.5	20.0	---	---	14.0	14.0	10.5	10.0	13.5	12.5	15.0	14.0
22	21.0	20.5	15.5	14.5	14.5	14.0	10.0	8.5	14.0	13.5	16.5	15.0
23	21.0	20.5	15.5	15.5	15.0	14.5	9.0	8.0	14.0	12.5	17.0	16.0
24	21.0	20.0	16.0	15.5	15.0	13.5	8.5	8.5	12.5	12.0	18.0	16.5
25	20.0	19.0	16.0	15.5	13.5	12.5	9.0	8.0	12.0	11.0	17.5	16.5
26	19.0	17.5	16.0	15.5	12.5	11.5	8.5	8.0	12.0	11.0	17.0	16.5
27	17.0	16.5	16.0	15.5	11.5	11.0	8.0	7.0	11.5	10.5	16.5	16.0
28	17.5	17.0	17.0	16.0	11.0	11.0	9.0	8.0	11.0	10.0	16.5	16.0
29	17.5	17.0	17.0	16.0	11.5	11.0	10.0	8.5	---	---	16.0	15.5
30	18.0	17.5	16.0	15.5	13.0	12.0	11.0	10.0	---	---	16.0	15.0
31	18.0	17.5	---	---	13.5	13.0	11.5	11.0	---	---	16.0	15.0
MONTH	24.5	16.5	20.0	14.0	15.5	11.0	13.0	7.0	14.0	7.5	18.0	10.5

[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, 26.0°C, July 24; minimum, 7.5°C Feb. 17, 18.

WATER TEMPERATURE, DEGREES CELSIUS, 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	23.0	22.0	17.5	17.0	15.0	14.5	13.0	12.0	11.0	10.5	12.0	10.5
2	23.5	22.5	18.0	17.0	15.0	14.5	12.0	12.0	10.5	10.5	12.5	12.0
3	23.5	22.5	18.5	17.5	15.5	15.0	12.0	12.0	10.5	10.0	13.0	12.5
4	24.0	23.0	19.0	18.0	15.5	15.0	12.0	11.5	11.0	10.5	13.0	12.0
5	24.0	23.0	19.5	18.0	14.5	14.0	12.0	11.5	11.5	10.5	12.5	12.0
6	23.5	22.0	19.5	18.5	14.0	13.0	12.0	11.5	12.0	11.5	13.0	12.5
7	23.5	22.5	19.0	18.5	13.0	12.5	13.0	12.0	12.5	11.5	14.0	13.0
8	24.0	23.0	18.5	18.0	12.5	12.5	13.0	11.5	12.5	12.0	14.0	13.0
9	24.0	23.0	17.5	17.0	12.5	12.0	11.5	11.0	12.0	11.5	13.0	12.0
10	24.0	22.5	17.0	16.0	12.0	11.5	11.5	11.0	12.0	11.5	12.0	11.5
11	22.5	22.0	16.0	15.5	12.5	12.0	11.5	11.0	11.5	11.0	11.5	11.0
12	22.0	22.0	15.5	15.0	12.5	12.0	11.5	11.0	11.5	11.0	12.0	11.0
13	22.0	21.5	15.0	14.0	13.0	12.0	11.0	10.5	11.5	11.0	12.5	12.0
14	21.5	21.0	15.0	14.0	13.5	13.0	10.5	9.5	11.5	11.0	13.5	12.5
15	21.5	21.0	15.5	14.5	13.5	13.0	10.0	9.5	11.5	10.0	13.0	12.5
16	21.0	20.5	16.0	15.5	13.5	13.0	11.0	10.0	10.0	8.5	12.5	12.0
17	21.0	20.5	16.0	15.5	14.0	13.5	11.5	11.0	8.5	7.5	12.0	12.0
18	21.5	21.0	15.5	15.0	14.5	13.5	11.0	10.5	9.5	7.5	13.5	12.0
19	21.0	20.0	15.0	14.5	14.5	14.5	10.5	10.0	11.0	9.5	14.5	13.0
20	20.0	19.5	15.5	14.5	14.5	14.0	10.5	10.0	12.0	10.5	15.0	13.0
21	20.0	19.5	15.0	14.5	14.0	14.0	10.5	10.0	13.5	12.0	15.5	14.0
22	20.5	20.0	15.5	14.5	14.0	14.0	10.0	9.0	14.0	13.0	16.5	15.0
23	21.0	20.0	16.0	15.0	15.0	14.0	9.0	8.0	14.0	13.0	18.0	16.0
24	21.0	20.5	16.0	15.0	15.0	13.5	8.5	8.5	13.0	12.0	18.0	17.0
25	20.5	19.0	16.0	15.0	13.5	13.0	8.5	8.5	12.0	11.5	18.0	16.5
26	19.0	17.5	16.0	15.0	13.0	12.0	8.5	8.5	12.0	11.0	18.0	16.5
27	17.5	16.0	16.0	15.0	12.0	11.0	8.0	8.0	11.5	11.0	17.5	16.5
28	16.5	15.5	17.0	16.0	11.0	10.5	9.0	8.0	11.0	10.5	17.5	16.0
29	17.0	16.0	17.0	16.0	11.5	11.0	9.5	9.0	---	---	17.0	16.0
30	17.5	16.5	16.0	15.0	12.5	11.5	10.5	9.5	---	---	16.5	15.5
31	17.0	16.5	---	---	13.5	12.5	11.0	10.5	---	---	16.0	15.0
MONTH	24.0	15.5	19.5	14.0	15.5	10.5	13.0	8.0	14.0	7.5	18.0	10.5

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[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 current year.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Gage Height, 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 1990 TO SEPTEMBER 1991

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 23...	1200	--	84	79	6.8	6.8	20.5	25.0	6.6	74
NOV 19...	1200	2.67	100	98	7.2	6.8	15.0	20.5	8.2	81
DEC 19...	1230	4.34	76	75	7.3	6.8	15.0	18.5	9.5	94
JAN 23...	1230	6.06	83	80	7.0	6.7	9.0	13.0	10.2	87
FEB 20...	1200	5.18	86	84	7.1	6.9	12.0	27.0	10.1	93
MAR 13...	1330	--	58	58	6.8	6.5	12.5	20.0	8.3	79
APR 16...	1300	--	96	93	6.9	6.9	19.0	29.0	7.7	83
MAY 22...	1210	--	66	70	6.8	6.7	19.0	29.0	7.3	78
JUN 18...	1230	--	94	89	6.8	6.9	25.0	31.0	6.8	83
JUL 23...	1215	--	88	83	6.9	6.7	26.0	32.5	6.2	76
AUG 14...	1240	--	76	70	6.8	6.7	23.5	26.5	6.3	74
SEP 18...	1300	--	89	81	6.7	6.8	26.0	31.5	6.4	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	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 23...	90	45	1.4	490	17	0.260	0.060	0.140	8.4
NOV 19...	--	9.0	1.2	790	20	0.450	0.130	0.260	5.6
DEC 19...	20	9.0	--	110	17	0.220	0.040	0.150	4.3
JAN 23...	75	23	1.9	1700	15	0.240	0.090	0.200	1.6
FEB 20...	35	8.0	0.8	210	18	0.390	0.110	0.100	5.8
MAR 13...	40	9.0	0.6	20	14	0.140	<0.030	0.080	4.4
APR 16...	60	10	1.4	<20	22	0.310	0.040	0.120	7.0
MAY 22...	55	24	1.4	330	16	0.220	<0.030	0.090	5.2
JUN 18...	35	13	0.8	40	20	0.350	0.040	0.240	3.2
JUL 23...	50	14	0.2	700	18	0.280	0.070	0.130	6.4
AUG 14...	--	11	1.3	3100	16	0.280	0.070	0.110	5.4
SEP 18...	15	7.0	1.1	50	19	0.240	0.030	0.220	3.9

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: July 12-15. 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.--40 years, 10,260 ft³/s, 16.12 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, 32,700 ft³/s, Oct. 17, gage height 17.66 ft; minimum daily discharge, 4,330 ft³/s, Oct. 8.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	4900	10300	6010	5860	15700	10600	14700	11800	18500	14300	16100	16700	
2	4700	9630	6160	5960	16900	11000	15300	14300	18600	12400	19400	15100	
3	4590	9070	5450	6020	17500	12200	14800	15500	17800	13000	21400	10100	
4	5030	7360	6150	6500	16300	15200	15500	16400	16400	14500	21800	7210	
5	5330	6360	7750	6880	13800	17300	16700	17400	15100	15600	21500	6440	
6	5120	6990	8520	6400	11900	18800	18200	18700	12900	16400	20700	6400	
7	4550	7810	8660	5490	10300	20600	19700	20000	9900	17100	20100	6040	
8	4330	8120	8730	5990	9020	22600	21400	21300	7780	16900	20000	5590	
9	4430	8060	7280	7260	9240	23900	21000	22700	7030	15200	20400	6160	
10	5410	7910	5780	7480	8570	24500	17800	24600	6260	11800	20800	6820	
11	7750	8150	6680	6800	8180	24900	15800	26800	6260	10600	20700	8140	
12	10100	9580	8410	6230	8470	25600	15800	28100	6610	9600	19800	9740	
13	14600	9610	7060	6820	9720	26600	16400	27900	7050	8800	18000	10400	
14	17200	8010	5530	9610	10900	26500	16800	25700	7520	8200	16800	10800	
15	20000	7350	5460	10300	12400	24400	16000	22700	8070	7440	17300	9120	
16	27600	7580	5540	7870	12700	21400	13000	20700	8760	6810	18400	7550	
17	32300	6730	5260	7000	11700	17800	13900	19700	9920	9490	19400	7120	
18	29000	5480	5720	8600	10000	13000	15200	19300	8240	11600	20600	7950	
19	23700	5410	7220	9080	7450	9170	16000	19200	8760	12900	21900	8280	
20	17900	5710	6850	8100	7790	7410	16600	19100	9150	13900	22500	8390	
21	11200	6880	6820	9030	8820	7160	16800	18800	9150	13900	20900	8080	
22	7540	6030	7690	10800	9370	7020	15500	18600	9490	11900	18700	6590	
23	10200	5470	6770	10400	8990	6500	10900	18600	7710	10400	17800	5550	
24	14800	5950	6480	8500	8370	5920	9800	18800	7270	10500	17800	7040	
25	16800	5550	7280	8470	8160	5700	9690	19000	7020	9780	18300	8990	
26	17900	5240	8070	9770	8560	6080	9530	19100	6660	10600	18900	8900	
27	18400	5440	7810	11200	9840	8150	9090	18900	7650	10800	19100	9070	
28	16700	6850	7190	9970	10500	9220	8470	18000	11800	8740	18400	8060	
29	12000	6050	7480	9210	---	9580	7860	17400	13900	8300	16600	6760	
30	9190	5390	6810	9930	---	11100	8460	17600	14900	10600	15500	6580	
31	10200	---	6040	13200	---	13000	---	18000	---	13900	16100	---	
TOTAL	393470	214070	212660	254730	301150	462910	436700	614700	306160	365960	595700	249670	
MEAN	12690	7136	6860	8217	10760	14930	14560	19830	10210	11810	19220	8322	
MAX	32300	10300	8730	13200	17500	26600	21400	28100	18600	17100	22500	16700	
MIN	4330	5240	5260	5490	7450	5700	7860	11800	6260	6810	15500	5550	
CAL YR 1990	TOTAL 4327600		MEAN 11860		MAX 35600		MIN 4330		MEAN† 11320		CFSM† 1.31		IN† 17.77
WTR YR 1991	TOTAL 4407880		MEAN 12080		MAX 32300		MIN 4330		MEAN† 13060		CFSM† 1.51		IN† 20.50

†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 1990 TO SEPTEMBER 1991

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										
23...	1045	10300	90	88	6.6	6.8	20.5	24.5	6.5	73
NOV										
19...	1115	5420	105	104	7.1	6.8	15.0	18.0	8.3	82
DEC										
19...	1200	7290	77	76	7.0	6.8	15.0	20.0	9.4	93
JAN										
23...	1200	10400	76	76	7.1	6.7	9.0	13.0	10.6	91
FEB										
20...	1115	7740	88	85	7.1	6.8	11.5	26.0	10.0	91
MAR										
13...	1245	26700	62	60	7.0	6.6	12.5	15.5	8.8	83
APR										
16...	1115	12600	92	88	6.9	6.8	18.5	27.0	7.2	77
MAY										
22...	1110	18600	68	64	6.9	6.9	19.0	29.5	7.6	82
JUN										
18...	1200	8000	79	73	7.0	7.0	24.5	30.0	7.3	88
JUL										
23...	1130	10300	85	85	6.8	6.7	25.0	32.5	6.4	78
AUG										
14...	1210	16600	81	75	--	6.7	24.0	29.0	6.3	75
SEP										
18...	1215	7950	87	82	6.9	6.8	25.5	31.5	6.6	81

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									
23...	90	42	1.3	460	20	0.260	0.060	0.160	8.4
NOV									
19...	--	11	1.1	1300	23	0.390	0.090	0.220	5.6
DEC									
19...	20	10	--	70	18	0.410	0.040	0.140	3.9
JAN									
23...	75	21	1.6	750	14	0.290	0.110	0.120	6.6
FEB									
20...	30	8.0	0.7	330	18	0.420	0.130	0.120	6.9
MAR									
13...	30	10	0.4	35	13	0.180	<0.030	0.040	3.8
APR									
16...	50	11	1.5	50	20	0.260	0.050	0.110	8.3
MAY									
22...	50	18	1.5	790	17	0.260	0.070	0.100	4.2
JUN									
18...	30	12	0.6	80	18	0.300	<0.030	0.160	3.0
JUL									
23...	60	13	0.1	170	18	0.250	0.070	0.120	6.8
AUG									
14...	--	10	1.2	790	18	0.270	0.050	0.090	6.0
SEP									
18...	15	7.0	2.3	70	21	0.240	<0.030	0.210	4.0

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.--Estimated daily discharges: May 16-June 18. Records good, except those for the period of estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--24 years, 46.1 ft³/s, 11.38 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. 12	1500	2,210	13.53	Mar. 3	2000	*2,220	*13.56
Jan. 31	0100	1,520	11.72				

Minimum daily discharge, 1.8 ft³/s, Oct. 1.

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	1.8	14	12	39	246	48	87	56	45	13	44	19
2	2.1	13	12	62	153	504	66	54	40	9.8	67	34
3	1.9	12	13	49	121	1150	54	32	35	7.7	48	21
4	2.2	12	21	41	103	961	47	26	31	7.1	26	16
5	3.1	12	16	35	89	241	81	75	28	48	17	14
6	2.9	11	14	32	84	158	137	178	24	31	13	12
7	3.1	11	14	33	88	131	80	70	22	66	13	10
8	2.4	10	30	34	76	104	60	38	20	23	11	9.2
9	2.5	29	24	29	66	89	71	32	18	14	18	8.3
10	3.5	195	17	27	60	80	118	80	17	10	23	7.5
11	8.5	63	15	161	54	70	78	45	16	12	16	6.9
12	1170	37	14	273	50	68	50	124	15	12	162	6.5
13	202	29	14	136	49	92	44	444	25	7.6	70	6.1
14	52	23	14	80	79	92	42	161	50	6.7	189	5.6
15	29	19	14	68	56	66	39	93	70	6.5	282	5.2
16	19	18	15	242	42	58	36	120	45	115	87	4.8
17	15	17	14	119	41	63	30	150	35	196	52	4.9
18	18	17	14	77	42	73	26	96	26	150	36	4.7
19	21	15	23	118	42	61	44	62	29	67	28	4.4
20	14	15	137	342	41	51	181	50	46	52	22	4.0
21	11	15	202	153	45	47	80	45	36	29	18	3.7
22	26	14	82	94	47	45	45	42	20	21	15	3.7
23	464	14	60	74	184	47	38	40	15	15	13	3.6
24	139	14	74	207	110	43	30	38	13	12	13	3.6
25	63	13	52	378	75	37	23	35	14	9.4	18	4.1
26	44	12	39	154	62	34	21	33	13	7.9	110	4.6
27	31	12	35	109	51	33	33	40	16	17	167	4.1
28	24	12	33	99	46	35	92	52	39	21	58	3.6
29	19	16	33	96	---	133	54	48	22	21	36	3.4
30	16	14	34	601	---	425	115	42	19	44	28	3.3
31	15	---	41	967	---	131	---	56	---	76	24	---
TOTAL	2426.0	708	1132	4929	2202	5170	1902	2457	844	1127.7	1724	241.8
MEAN	78.3	23.6	36.5	159	78.6	167	63.4	79.3	28.1	36.4	55.6	8.06
MAX	1170	195	202	967	246	1150	181	444	70	196	282	34
MIN	1.8	10	12	27	41	33	21	26	13	6.5	11	3.3
CFSM	1.42	.43	.66	2.89	1.43	3.04	1.15	1.44	.51	.66	1.01	.15
IN.	1.64	.48	.77	3.33	1.49	3.50	1.29	1.66	.57	.76	1.17	.16
CAL YR 1990	TOTAL	15044.35	MEAN	41.2	MAX	1170	MIN	.63	CFSM	.75	IN	10.18
WTR YR 1991	TOTAL	24863.50	MEAN	68.1	MAX	1170	MIN	1.8	CFSM	1.24	IN	16.82

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.--Estimated daily discharges: Oct. 12-17. Records good, except those greater than 75 ft³/s, and those for the period of estimated daily discharges, which are fair. Discharge during growing season affected by undetermined amount of irrigation withdrawal. Moderate diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--33 years, 25.6 ft³/s, 12.42 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft³/s, Oct. 12, 1990; gage height, 14.02 ft, from rating curve extended above 4,300 ft³/s, on basis of contracted-opening measurement of peak flow; 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)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 12	unknown	*11,400	*14.02	May 13	0200	630	6.52
Jan. 30	2100	520	6.26	Aug. 14	2300	451	6.07
Mar. 3	1700	874	6.96	Aug. 26	2100	350	5.70
Mar. 30	0400	547	6.33				

Minimum daily discharge, 9.0 ft³/s, Oct. 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	17	18	20	116	29	51	38	28	16	36	26
2	9.0	16	18	31	71	204	41	29	25	15	55	29
3	9.4	17	18	24	55	440	35	24	22	14	31	27
4	10	16	19	22	48	354	32	23	20	17	22	23
5	10	17	17	20	43	121	63	38	20	18	18	20
6	9.7	18	17	19	41	77	93	64	19	18	17	24
7	9.9	17	18	19	159	62	51	36	17	19	16	22
8	9.6	17	22	19	79	52	42	25	17	18	15	17
9	10	31	16	19	51	46	40	25	17	16	24	17
10	20	81	15	19	42	40	38	36	15	15	64	16
11	42	31	14	48	37	37	30	26	14	15	33	15
12	3800	22	14	68	34	35	28	94	14	13	80	15
13	600	19	14	37	32	58	28	322	15	12	42	15
14	140	19	17	27	33	65	26	63	26	12	154	14
15	58	18	16	26	31	41	27	39	60	12	205	14
16	37	17	15	48	29	35	26	126	70	33	60	17
17	29	17	14	31	29	36	24	107	26	45	41	23
18	29	17	14	26	30	41	22	59	74	31	32	18
19	25	16	19	39	30	36	26	41	39	20	28	17
20	22	17	31	78	30	31	33	35	32	18	27	18
21	19	17	32	40	30	29	33	33	25	17	25	16
22	31	16	21	30	32	28	26	32	21	16	22	15
23	163	16	18	26	60	27	24	32	19	15	18	14
24	53	15	20	60	40	26	22	29	18	13	19	14
25	31	16	18	96	34	24	21	28	17	13	29	16
26	24	15	17	46	31	24	21	25	17	13	150	16
27	21	17	17	37	29	24	57	37	18	16	193	14
28	20	21	17	34	27	24	106	42	19	23	59	14
29	18	22	17	35	---	90	52	28	18	24	39	13
30	17	19	18	254	---	324	39	29	16	105	33	13
31	17	---	20	320	---	78	---	48	---	42	28	---
TOTAL	5303.0	614	561	1618	1303	2538	1157	1613	758	674	1615	532
MEAN	171	20.5	18.1	52.2	46.5	81.9	38.6	52.0	25.3	21.7	52.1	17.7
MAX	3800	81	32	320	159	440	106	322	74	105	205	29
MIN	9.0	15	14	19	27	24	21	23	14	12	15	13
CFSM	6.11	.73	.65	1.86	1.66	2.92	1.38	1.86	.90	.78	1.86	.63
IN.	7.05	.82	.75	2.15	1.73	3.37	1.54	2.14	1.01	.90	2.15	.71

CAL YR 1990 TOTAL 10220.6 MEAN 28.0 MAX 3800 MIN 3.6 CFSM 1.00 IN. 13.58
WTR YR 1991 TOTAL 18286.0 MEAN 50.1 MAX 3800 MIN 9.0 CFSM 1.79 IN. 24.29

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.--Estimated daily discharges: Oct. 14-16. Records good.

AVERAGE DISCHARGE.--22 years, 453 ft³/s, 13.01 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,500 ft³/s, Oct. 13, 1990, gage height, 14.24 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. 13	1700	*14,500	*14.24	Mar. 6	1000	4,080	9.56
Feb. 2	2100	2,960	8.81				

Minimum daily discharge, 65 ft³/s, Oct. 1, 9.

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	65	371	350	371	1750	661	1500	823	600	289	563	737
2	69	329	354	400	2500	799	1780	795	589	288	1280	555
3	72	309	333	419	2530	1260	1290	786	532	268	995	449
4	69	298	332	468	1690	3030	930	757	512	238	856	411
5	68	287	323	514	1200	3360	799	797	439	249	695	414
6	66	276	316	521	997	3850	811	662	397	288	588	385
7	67	268	315	500	970	2610	793	607	353	304	496	383
8	66	267	352	449	1050	1670	893	688	309	445	393	430
9	65	288	361	417	1110	1220	940	793	293	437	400	342
10	117	450	359	386	1030	1020	899	861	291	388	522	302
11	305	519	360	427	873	901	768	746	264	308	569	281
12	2400	585	356	562	774	816	674	653	243	260	666	263
13	12100	703	358	561	698	791	659	610	239	225	901	255
14	11300	902	343	634	647	795	655	686	246	197	863	247
15	5000	822	323	878	604	777	644	1320	314	196	1280	238
16	2500	602	311	1220	568	886	644	1390	383	316	1370	231
17	1500	455	303	973	569	910	583	1230	534	653	1300	235
18	1020	372	302	773	592	843	537	940	652	813	1240	346
19	765	334	311	743	599	752	568	817	663	1000	1120	299
20	605	317	328	970	563	707	815	1190	534	1140	824	290
21	505	310	355	929	534	734	749	1350	505	1090	609	268
22	444	305	394	835	528	677	808	1010	576	918	488	247
23	680	304	490	919	549	644	862	906	626	741	411	233
24	872	302	583	1170	586	599	955	759	544	575	393	226
25	858	295	830	1090	661	559	811	670	480	428	411	248
26	1050	290	746	927	695	539	671	612	382	327	441	296
27	1370	288	574	929	785	523	592	575	327	284	595	284
28	1030	289	485	1250	776	507	652	555	298	306	784	266
29	734	295	454	1230	---	564	728	538	290	289	968	240
30	554	307	411	1200	---	1010	916	567	302	349	951	217
31	443	---	383	1640	---	1150	---	628	---	575	934	---
TOTAL	46759	11739	12395	24305	26428	35164	24926	25321	12717	14184	23906	9618
MEAN	1508	391	400	784	944	1134	831	817	424	458	771	321
MAX	12100	902	830	1640	2530	3850	1780	1390	663	1140	1370	737
MIN	65	267	302	371	528	507	537	538	239	196	393	217
CFSM	3.19	.83	.85	1.66	2.00	2.40	1.76	1.73	.90	.97	1.63	.68
IN.	3.68	.92	.97	1.91	2.08	2.77	1.96	1.99	1.00	1.12	1.88	.76
CAL YR 1990	TOTAL	151832		MEAN 416		MAX 12100	MIN 45	CFSM .88		IN 11.94		
WTR YR 1991	TOTAL	267462		MEAN 733		MAX 12100	MIN 65	CFSM 1.55		IN 21.04		

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.--Estimated daily discharges: Oct. 14-18, Nov. 23-Dec. 12, and Sept. 18-30. Records good, except those for the periods of estimated daily discharges, which are fair. Records of chemical analyses for the 1970-79 water years are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--55 years, 637 ft³/s, 13.39 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 provided by the 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)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 15	1300	*12,800	*15.49	Apr. 4	1000	2,000	8.22
Feb. 4	2100	3,010	9.87	Aug. 2	1700	3,190	10.13
Mar. 8	0200	4,290	11.28	Aug. 26	1400	2,260	8.69

Minimum daily discharge, 87 ft³/s, Oct. 1.

SAVANNAH RIVER BASIN

02198000 BRIER CREEK AT MILLHAVEN, 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	87	825	450	577	2480	744	1590	1240	798	349	997	1160
2	88	669	490	585	2330	1210	1460	1340	807	329	2950	1090
3	88	580	540	565	2150	1730	1660	1140	772	325	2720	987
4	92	526	540	554	2760	2340	1960	960	675	322	2350	785
5	92	477	520	546	2710	2970	1630	968	619	390	1660	619
6	88	446	500	545	2040	3760	1430	1160	563	408	1210	530
7	88	418	490	569	1610	4030	1250	1210	512	454	1000	492
8	88	407	480	631	1490	3980	1160	1030	449	378	830	478
9	88	418	500	635	1350	2900	1030	822	404	351	814	460
10	127	560	540	599	1290	2080	1020	743	362	396	682	485
11	479	603	540	594	1280	1580	1060	830	332	434	626	477
12	1020	627	500	647	1230	1310	1050	954	324	426	677	418
13	1710	713	474	644	1090	1170	955	1000	313	374	758	382
14	6300	657	470	670	957	1100	839	931	321	314	925	355
15	12000	667	467	690	857	1060	771	849	390	288	1590	341
16	7900	766	466	714	770	1010	773	753	469	304	1450	330
17	4500	908	462	851	711	957	780	1160	507	305	1480	344
18	2800	849	450	1220	678	986	758	1550	489	402	1620	350
19	2370	693	440	1330	658	1070	741	1460	642	756	1520	370
20	1800	585	439	1300	660	1040	746	1180	729	1020	1480	350
21	1070	512	451	1150	676	944	786	976	733	1110	1510	320
22	932	469	469	1130	678	856	1040	1060	651	1180	1170	300
23	1640	460	485	1170	659	836	969	1500	540	1220	872	300
24	2030	460	489	1120	642	820	880	1250	524	1100	695	330
25	1680	450	500	1310	639	762	899	1060	581	1030	688	350
26	1280	450	551	1500	640	714	982	918	586	965	1780	360
27	1110	440	630	1480	655	664	1010	787	581	705	1520	370
28	1080	440	790	1280	701	634	1050	716	557	479	1040	340
29	1290	430	769	1170	---	660	945	685	473	471	983	300
30	1280	440	651	1880	---	1290	995	707	407	854	992	280
31	1050	---	590	2690	---	1380	---	851	---	724	1110	---
TOTAL	56247	16945	16133	30346	34391	46587	32219	31790	16110	18163	39699	14053
MEAN	1814	565	520	979	1228	1503	1074	1025	537	586	1281	468
MAX	12000	908	790	2690	2760	4030	1960	1550	807	1220	2950	1160
MIN	87	407	439	545	639	634	741	685	313	288	626	280
CFSM	2.81	.88	.81	1.52	1.90	2.33	1.66	1.59	.83	.91	1.98	.72
IN.	3.24	.98	.93	1.75	1.98	2.68	1.86	1.83	.93	1.05	2.29	.81
CAL YR 1990	TOTAL	187680		MEAN 514	MAX 12000	MIN 63	CFSM .80	IN 10.81				
WTR YR 1991	TOTAL	352683		MEAN 966	MAX 12000	MIN 87	CFSM 1.50	IN 20.31				

SAVANNAH RIVER BASIN

02198000 BRIER CREEK AT MILLHAVEN, GA.--Continued

WATER-QUALITY RECORDS

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

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 1990 TO SEPTEMBER 1991

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...	1115	440	110	110	7.1	6.6	14.5	19.5	7.9	77
MAR 13...	1200	1170	62	59	6.8	6.6	13.0	15.5	8.7	83
JUN 18...	1100	474	100	97	7.0	7.0	25.0	30.0	6.2	76
AUG 14...	1120	896	83	79	6.9	6.8	24.0	27.0	6.1	73

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...	50	5.0	--	50	17	0.050	<0.030	0.130	8.0
MAR 13...	90	12	0.5	70	11	0.150	<0.030	0.080	8.3
JUN 18...	80	8.0	0.8	60	21	0.350	0.030	0.170	10
AUG 14...	--	7.0	1.3	130	22	0.140	0.030	0.090	12

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: June 18 to July 22. Records good, except those for periods of estimated daily discharges, which are fair to poor.

AVERAGE DISCHARGE.--5 years, 30.1 ft³/s, 13.29 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, unknown, Aug. 2, 1991, gage height, 8.38 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)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 13	0100	1,300	7.25	Mar. 30	0830	465	6.25
Oct. 23	1600	1,850	7.60	Aug. 2	0200	unknown	*8.38
Jan. 30	1830	1,160	7.14	Aug. 15	0730	484	6.29
Mar. 3	1730	1,310	7.26				

Minimum daily discharge, 3.0 ft³/s, Oct. 1-3.

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	3.0	28	18	21	261	28	93	287	163	12	494	33
2	3.0	26	17	29	139	284	53	155	69	9.0	2160	26
3	3.0	25	17	25	96	785	42	64	44	8.0	362	23
4	3.2	25	19	26	81	815	36	50	32	8.0	146	20
5	3.2	24	18	25	71	250	50	281	24	16	76	17
6	3.1	23	17	20	64	132	171	335	20	14	50	15
7	3.1	21	16	18	148	93	137	198	17	13	39	14
8	3.1	20	34	23	221	76	67	95	15	11	33	13
9	3.1	30	35	23	149	67	49	62	13	9.0	36	12
10	14	153	30	20	86	60	44	65	12	8.0	35	10
11	48	122	24	35	67	53	36	52	11	7.0	34	9.4
12	727	70	21	64	57	50	29	48	10	7.0	51	8.9
13	703	42	19	56	53	56	28	92	9.7	7.5	65	8.5
14	176	33	18	38	53	68	28	142	17	8.0	129	7.5
15	57	29	17	29	48	57	25	75	100	20	345	7.0
16	30	27	17	60	40	46	32	54	145	45	169	7.5
17	23	26	16	65	38	43	31	50	62	35	71	9.3
18	23	25	16	49	39	48	32	46	100	30	46	9.0
19	24	24	18	47	40	46	57	97	70	25	36	7.5
20	19	23	22	141	40	40	220	89	45	20	34	6.8
21	17	22	24	124	39	36	141	54	30	45	29	6.4
22	53	21	23	75	38	34	60	47	20	28	24	6.0
23	1330	21	22	46	42	32	39	45	16	20	21	5.8
24	463	22	20	75	40	32	34	38	14	11	24	5.6
25	164	21	18	190	39	28	27	33	13	151	115	14
26	82	19	16	153	36	26	24	27	12	31	286	34
27	56	19	14	85	31	24	38	26	13	19	261	26
28	44	19	17	73	29	24	140	43	15	36	176	15
29	38	22	14	79	---	53	118	27	17	83	94	10
30	33	19	14	565	---	356	145	38	14	127	58	8.6
31	30	---	18	822	---	244	---	163	---	201	42	---
TOTAL	4181.8	1001	609	3101	2085	3986	2026	2878	1142.7	1064.5	5541	395.8
MEAN	135	33.4	19.6	100	74.5	129	67.5	92.8	38.1	34.3	179	13.2
MAX	1330	153	35	822	261	815	220	335	163	201	2160	34
MIN	3.0	19	14	18	29	24	24	26	9.7	7.0	21	5.6
CFSM	4.38	1.08	.64	3.25	2.42	4.19	2.19	3.01	1.24	1.11	5.81	.43
IN.	5.05	1.21	.74	3.75	2.52	4.81	2.45	3.48	1.38	1.29	6.69	.48
CAL YR 1990	TOTAL	10511.1	MEAN	28.8	MAX	1330	MIN	2.6	CFSM	.94	IN	12.69
WTR YR 1991	TOTAL	28011.8	MEAN	76.7	MAX	2160	MIN	3.0	CFSM	2.49	IN	33.83

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: Apr. 17-22, July 24-30. Records good, except those for the period of estimated daily discharge, which are fair. 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.--58 years, 11,770 ft³/s, 16.24 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, 34,900 ft³/s, Oct. 20, gage height, 16.09 ft; minimum daily discharge, 5,360 ft³/s, Oct. 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6480	16400	6940	8090	15700	11600	12600	12000	21500	12800	14100	22600
2	5930	14900	7130	7750	16600	12100	13400	12800	21400	13500	15900	21200
3	5670	13600	7410	7690	18000	13000	14200	13700	21600	13700	17800	19900
4	5570	12400	6980	7660	19400	14400	15000	14600	21600	13700	20000	18900
5	5710	10900	7170	7970	20500	15700	15600	15500	21200	13700	23600	16900
6	5970	9130	8370	8330	21100	17100	16200	16300	20400	14000	26900	13600
7	5930	8710	9270	8140	20800	18900	16600	17000	19400	14600	27500	10700
8	5590	9130	9700	7450	19800	20700	17300	17700	17800	15200	26600	9180
9	5360	9490	9860	7470	18300	22500	18200	18500	15300	15700	25100	8240
10	5510	10100	9180	8450	16500	24200	19100	19400	12000	16100	23700	8070
11	6540	10100	7790	9070	15000	26100	20000	20600	9570	16100	22700	8510
12	8570	10100	7780	9040	13600	27500	20700	22200	8550	15500	22300	9270
13	10200	10700	9070	8560	12700	28000	20400	24200	8470	14200	22100	10300
14	11800	11200	8850	8710	12500	28300	19500	26700	8620	12700	22200	11000
15	13200	10700	7520	10200	12700	28600	18600	28700	9320	11200	21900	11300
16	14400	9890	7000	11200	13000	28900	18100	29500	9700	9880	21300	11100
17	15900	9570	6970	10900	13500	28800	17500	28800	10200	9230	20500	9900
18	19900	9010	6750	9830	13800	27800	17000	27100	10900	10300	20000	8890
19	29000	7890	6940	10200	13600	25800	16600	25000	10800	11700	20100	9050
20	34300	7450	8110	11300	12300	22700	16200	23300	10600	12600	20700	9400
21	33800	7570	8370	11700	11000	18700	16700	22400	10800	13200	21600	9520
22	30500	8260	8300	12100	10900	14800	17200	21900	10900	13800	22600	9390
23	26300	7990	8820	12700	11200	11900	17600	21500	11000	14100	23400	8470
24	21100	7290	8550	13200	11200	10200	17500	21000	10400	14000	23900	7340
25	17800	7320	8060	13400	10900	8990	16700	20700	9490	13400	24800	7880
26	16800	7130	8420	13100	10600	8330	15400	20400	8950	14000	25900	9420
27	16900	6770	9060	13100	10500	8300	13900	20400	8590	15100	25000	9900
28	17700	6820	9240	13600	11000	9390	13000	20400	9020	12800	24200	10000
29	18500	7680	8850	14000	---	10400	12400	20300	10700	12200	24000	9690
30	18800	7590	8870	14500	---	11200	12000	20700	12000	12100	24300	8700
31	18200	---	8640	15000	---	11800	---	21500	---	12700	23900	---
TOTAL	457930	285790	253970	324410	406700	566710	495200	644800	390780	413810	698600	338320
MEAN	14770	9526	8193	10460	14520	18280	16510	20800	13030	13350	22540	11280
MAX	34300	16400	9860	15000	21100	28900	20700	29500	21600	16100	27500	22600
MIN	5360	6770	6750	7450	10500	8300	12000	12000	8470	9230	14100	7340

CAL YR 1990	TOTAL 4797660	MEAN 13140	MAX 39200	MIN 5360	MEAN† 12600	CFSM† 1.28	IN† 17.37
WTR YR 1991	TOTAL 5277020	MEAN 14460	MAX 34300	MIN 5360	MEAN† 15440	CFSM† 1.57	IN† 21.29

†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. Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Present data above the $\mu\text{g/L}$ level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey will begin using new trace-element protocols in the near future.

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 1990 TO SEPTEMBER 1991

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							
16...	0640	81341	14100	66	65	6.6	6.5
NOV							
07...	1030	80020	8660	94	99	7.3	7.6
13...	0710	81341	10500	106	109	6.9	7.0
DEC							
11...	0715	81341	7960	85	--	6.8	7.2
19...	1220	80020	6900	90	99	7.4	7.7
JAN							
22...	0750	81341	12000	87	94	6.6	6.8
FEB							
12...	0730	81341	13900	89	86	6.8	6.7
MAR							
12...	0700	81341	27300	56	55	--	6.6
26...	1200	80020	8310	80	74	7.0	7.4
APR							
03...	0715	81341	14100	76	73	6.8	7.2
MAY							
14...	0645	81341	26100	59	61	6.6	6.7
JUN							
11...	0615	81341	9950	99	100	6.8	7.0
21...	1300	80020	10900	82	83	7.1	7.1
JUL							
30...	0730	81341	12000	78	82	7.0	6.9
AUG							
27...	0600	81341	25200	67	65	6.9	6.7
SEP							
04...	0800	80020	19100	84	89	6.8	6.8
17...	0550	81341	10300	80	76	7.2	7.0

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 16...	81341	21.5	14.0	5.2	59	--	12	--
NOV 07...	80020	18.5	--	7.2	77	22	--	23
13...	81341	15.0	10.5	6.9	68	--	19	--
DEC 11...	81341	10.0	5.5	7.4	65	--	22	--
19...	80020	15.5	--	--	--	--	--	24
JAN 22...	81341	8.5	3.0	8.2	70	--	17	--
FEB 12...	81341	9.5	2.5	8.4	73	--	16	--
MAR 12...	81341	10.0	7.0	7.9	70	--	13	--
26...	80020	16.0	--	--	--	--	--	18
APR 03...	81341	15.0	13.5	6.7	65	--	18	--
MAY 14...	81341	21.0	24.5	4.4	49	--	17	--
JUN 11...	81341	23.5	19.5	5.8	68	--	22	--
21...	80020	27.0	--	8.2	103	--	--	19
JUL 30...	81341	26.0	24.0	6.1	75	--	20	--
AUG 27...	81341	24.0	23.0	5.4	64	--	13	--
SEP 04...	80020	24.5	--	7.0	84	22	--	22
17...	81341	26.0	23.5	6.1	75	--	15	--

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)	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT 16...	81341	110	74	1.0	490	--	--	--	--
NOV 07...	80020	--	10	--	--	--	--	20	5.5
13...	81341	40	11	0.9	50	--	--	--	--
DEC 11...	81341	40	9.0	0.5	50	--	--	--	--
19...	80020	--	5.9	--	--	220	210	21	6.0
JAN 22...	81341	50	17	0.4	490	--	--	--	--
FEB 12...	81341	50	15	1.0	130	--	--	--	--
MAR 12...	81341	110	23	0.8	80	--	--	--	--
26...	80020	--	8.0	--	--	--	--	17	4.6
APR 03...	81341	80	23	1.0	330	--	--	--	--
MAY 14...	81341	50	9.0	1.1	330	--	--	--	--
JUN 11...	81341	40	19	0.8	<20	--	--	--	--
21...	80020	--	4.0	--	--	--	--	17	5.0
JUL 30...	81341	40	12	0.9	550	--	--	--	--
AUG 27...	81341	45	8.0	0.7	<20	--	--	--	--
SEP 04...	80020	--	4.3	--	--	--	--	20	5.5
17...	81341	15	9.0	1.1	<20	--	--	--	--

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)
NOV										
07...	80020	1.4	11	53	1	1.6	8.0	9.2	<0.10	9.6
DEC										
19...	80020	1.4	10	49	1	1.7	7.2	9.2	0.10	9.3
MAR										
26...	80020	1.3	7.1	45	0.8	1.7	6.6	6.3	0.10	7.6
JUN										
21...	80020	1.2	8.7	49	0.9	1.7	6.5	7.6	<0.10	8.3
SEP										
04...	80020	1.4	7.4	40	0.7	3.5	4.6	7.9	<0.10	9.4

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	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)	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										
16...	81341	--	--	--	--	43	0.120	--	--	11
NOV										
07...	80020	59	60	1380	0.08	--	0.060	0.040	0.030	--
13...	81341	--	--	--	--	16	0.150	--	--	11
DEC										
11...	81341	--	--	--	--	8	0.110	--	--	5.2
19...	80020	58	62	1080	0.08	--	0.040	0.030	0.030	--
JAN										
22...	81341	--	--	--	--	13	0.110	--	--	6.7
FEB										
12...	81341	--	--	--	--	9	0.270	--	--	6.9
MAR										
12...	81341	--	--	--	--	6	0.050	--	--	5.5
26...	80020	44	47	987	0.06	--	0.050	<0.010	0.010	--
APR										
03...	81341	--	--	--	--	19	0.100	--	--	6.9
MAY										
14...	81341	--	--	--	--	6	0.150	--	--	5.6
JUN										
11...	81341	--	--	--	--	24	0.120	--	--	4.3
21...	80020	28	53	824	0.04	--	0.110	0.100	0.080	--
JUL										
30...	81341	--	--	--	--	14	0.120	--	--	5.1
AUG										
27...	81341	--	--	--	--	3	0.090	--	--	9.9
SEP										
04...	80020	49	53	2530	0.07	--	0.090	0.050	0.020	--
17...	81341	--	--	--	--	12	0.090	--	--	4.8

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (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, NITRITE 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)
OCT 16...	81341	--	0.120	--	<0.030	--	--	--	--
NOV 07...	80020	<0.010	0.300	0.400	0.080	<0.010	0.050	0.62	0.70
13...	81341	--	0.330	--	0.050	--	--	--	--
DEC 11...	81341	--	0.200	--	0.040	--	--	--	--
19...	80020	<0.010	0.400	0.400	0.040	<0.010	0.060	0.46	0.50
JAN 22...	81341	--	0.280	--	0.050	--	--	--	--
FEB 12...	81341	--	0.270	--	0.060	--	--	--	--
MAR 12...	81341	--	0.110	--	<0.030	--	--	--	--
26...	80020	<0.010	0.140	0.120	0.050	0.020	0.030	0.35	0.40
APR 03...	81341	--	0.280	--	0.240	--	--	--	--
MAY 14...	81341	--	0.190	--	<0.030	--	--	--	--
JUN 11...	81341	--	0.350	--	0.040	--	--	--	--
21...	80020	<0.010	0.380	0.360	0.050	0.020	0.060	0.65	0.70
JUL 30...	81341	--	0.220	--	0.040	--	--	--	--
AUG 27...	81341	--	0.120	--	<0.030	--	--	--	--
SEP 04...	80020	<0.010	0.170	0.180	0.030	<0.010	<0.010	0.47	0.50
17...	81341	--	0.220	--	<0.030	--	--	--	--

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)
NOV 07...	80020	100	<1	49	<0.5	<1.0	4	<3	1	400	1
DEC 19...	80020	30	<1	15	<0.5	1.0	<1	<3	2	310	7
MAR 26...	80020	50	<1	19	<0.5	<1.0	<1	<3	1	300	<1
JUN 21...	80020	30	<1	15	0.5	<1.0	<1	<3	<1	230	1
SEP 04...	80020	60	<1	24	<0.5	<1.0	<1	<3	6	800	7

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)
NOV 07...	80020	<4	23	<0.1	<10	1	<1	<1.0	33	<6	23
DEC 19...	80020	<4	18	0.2	<10	<1	<2	<1.0	34	<6	22
MAR 26...	80020	<4	10	0.3	<10	1	<1	<1.0	30	<6	<3
JUN 21...	80020	<4	10	0.4	<10	1	<1	<1.0	31	<6	20
SEP 04...	80020	<4	35	0.3	<10	2	<1	2.0	36	<6	370

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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
NOV 07...	1030	80020	8660	18.5	24	561	85
DEC 19...	1220	80020	6900	15.5	10	186	99
MAR 26...	1200	80020	8310	16.0	7	157	100
JUN 21...	1300	80020	10900	27.0	39	1150	78
SEP 04...	0800	80020	19100	24.5	8	413	94

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 16...	0641	85113	14100	382	8.0
NOV 13...	0711	85113	10500	619	10.0
DEC 11...	0716	85113	7960	933	10.0
JAN 22...	0751	85113	12000	702	9.0
FEB 12...	0731	85113	13900	707	8.0
MAR 12...	0701	85113	27300	359	5.0
APR 03...	0716	85113	14100	253	6.0
MAY 14...	0646	85113	26100	358	7.0
JUN 11...	0616	85113	9950	2190	20.0
JUL 30...	0731	85113	12000	582	12.0
AUG 27...	0601	85113	25200	240	9.0
SEP 17...	0551	85113	10300	689	11.0

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 current year.

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

REMARKS.--No estimated daily discharges. Records good, except those less than 10 ft³/s, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,690 ft³/s, Aug. 26, 1991; gage height, 16.57 ft: minimum daily discharge, 0.01 ft³/s, July 6-15, 28-31, 1990.

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. 13	0530	2,170	13.37	Apr. 21	1530	1,340	12.23
Nov. 12	0830	869	11.20	May 1	1630	822	11.06
Jan. 21	0100	1,730	12.82	June 2	0530	2,040	13.21
Jan. 26	1630	1,190	11.93	Aug. 3	0100	3,600	14.65
Jan. 31	1530	2,560	13.75	Aug. 15	0900	1,230	12.02
Mar. 4	2030	2,500	13.69	Aug. 26	2230	*6,690	*16.57

Minimum daily discharge, 0.07 ft³/s, Oct. 1-3.

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	.07	66	77	100	2210	72	412	776	1810	43	1190	708
2	.07	49	81	173	1480	199	426	722	1840	31	3100	547
3	.07	42	69	245	1020	705	292	522	1290	22	3240	418
4	.15	42	61	271	766	2110	207	390	920	19	1950	325
5	.56	45	55	269	587	2170	169	278	638	29	1120	245
6	.20	38	53	232	487	1470	280	211	430	41	730	181
7	.11	31	52	191	428	1000	325	168	297	57	488	133
8	.08	27	59	151	408	734	347	132	211	59	341	102
9	.21	49	69	122	392	554	377	112	146	87	235	90
10	76	356	66	116	392	438	360	94	93	116	148	124
11	364	734	64	167	360	362	401	74	67	92	128	152
12	1210	842	68	395	292	292	398	90	50	66	161	112
13	2060	659	61	551	270	236	350	165	38	45	229	75
14	1440	472	56	535	216	245	251	219	60	28	424	56
15	886	356	52	455	186	232	196	239	132	22	1130	44
16	562	261	49	380	157	243	162	186	109	51	840	35
17	378	193	47	340	138	213	192	169	86	289	577	31
18	243	151	45	309	121	188	419	276	92	315	400	24
19	148	123	59	308	103	182	671	277	120	409	275	19
20	127	97	217	1100	101	171	932	192	165	608	222	16
21	104	81	397	1600	101	150	1290	158	272	542	196	15
22	104	77	357	1240	98	129	1180	230	255	393	148	14
23	193	63	324	864	93	110	870	300	153	275	103	13
24	282	57	310	688	94	96	630	293	104	203	105	12
25	343	53	251	929	104	84	498	246	68	413	264	12
26	381	52	181	1160	104	68	394	183	49	450	3450	17
27	313	56	155	1030	98	57	309	158	43	383	5000	20
28	234	76	127	882	85	51	330	140	50	252	2380	20
29	168	95	107	906	---	61	429	104	68	155	1490	21
30	121	86	95	1430	---	156	539	137	60	229	1100	19
31	91	---	93	2440	---	249	---	1290	---	647	854	---
TOTAL	9829.52	5329	3757	19579	10891	13027	13636	8531	9716	6371	32018	3600
MEAN	317	178	121	632	389	420	455	275	324	206	1033	120
MAX	2060	842	397	2440	2210	2170	1290	1290	1840	647	5000	708
MIN	.07	27	45	100	85	51	162	74	38	19	103	12
CFSM	1.75	.98	.67	3.49	2.15	2.32	2.51	1.52	1.79	1.14	5.71	.66
IN.	2.02	1.10	.77	4.02	2.24	2.68	2.80	1.75	2.00	1.31	6.58	.74

WTR YR 1991 TOTAL 136284.52 MEAN 373 MAX 5000 MIN .07 CFSM 2.06 IN 28.01

SAVANNAH RIVER BASIN

02198715 EBENEZER CREEK NEAR STILLWELL, GA.

LOCATION.--Lat 32°22'30", long 81°13'19", Effingham County, Hydrologic Unit 03060109, at Halfmoon Landing 2.7 mi downstream of Seaboard Coast Line Railroad, 2.5 mi upstream of mouth, and 1.5 mi southeast of Stillwell.

PERIOD OF RECORD.--July 1991 to September 1991.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 30...	0600	5.94	46	44	4.6	4.6	26.0	23.0	2.8	34
AUG 27...	0730	10.98	35	33	4.5	4.5	24.5	23.0	3.4	40
SEP 17...	0725	4.83	40	40	4.8	4.7	25.5	24.0	3.1	38

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
JUL 30...	250	1.0	83	1.0	--	1
AUG 27...	200	11	75	1.1	700	<1
SEP 17...	240	2.0	77	1.2	<20	2

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
JUL 30...	0.020	0.070	0.90	0.180	31	--
AUG 27...	<0.020	<0.030	0.50	0.090	31	4.0
SEP 17...	0.020	0.120	0.80	0.180	32	6.1

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, 6.44 ft, Aug. 9; minimum elevation recorded, -4.15 ft, Feb. 15.

GAGE HEIGHT (FEET ABOVE DATUM), 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	5.01	-2.23	5.73	-1.14	5.70	-2.98	5.78	-3.15	5.68	-1.03	5.61	-2.27
2	5.12	-2.60	6.04	-0.92	5.69	-3.37	5.70	-2.56	5.62	-0.52	5.33	-2.11
3	5.25	-2.60	6.07	-0.80	5.81	-3.17	5.44	-3.27	5.03	-1.72	5.20	-1.66
4	5.37	-2.60	6.05	-1.25	5.13	-3.50	5.49	-2.79	4.60	-1.71	4.70	-2.60
5	5.42	-3.39	5.97	-1.71	5.17	-3.89	5.32	-1.68	4.18	-1.56	4.57	-2.06
6	5.66	-2.72	5.77	-2.06	5.32	-3.09	4.89	-2.26	4.08	-1.24	4.59	-1.36
7	5.49	-2.79	5.61	-2.21	5.23	-2.42	4.58	-2.14	4.15	-0.71	3.64	-1.64
8	5.39	-2.93	5.68	-1.87	5.01	-1.83	4.67	-1.45	4.28	-0.53	4.35	-1.06
9	5.58	-2.52	5.88	-0.60	4.82	-1.73	4.71	-1.76	4.82	-0.27	4.53	-0.06
10	5.74	-1.20	4.83	-2.64	4.77	-2.43	4.80	-1.59	4.90	-0.55	4.50	-0.89
11	5.56	-1.77	4.89	-2.30	4.76	-1.92	5.30	-1.28	4.90	-1.06	4.62	-0.29
12	5.45	-0.91	4.68	-2.43	4.95	-2.21	4.84	-1.84	4.90	-1.62	4.87	-0.54
13	5.24	-1.35	5.07	-2.64	4.64	-2.68	4.40	-2.88	5.13	-1.59	5.24	-0.07
14	5.31	-1.23	5.27	-2.11	4.44	-3.04	4.91	-2.34	4.63	-2.73	5.30	-0.25
15	5.20	-1.52	5.22	-1.82	5.02	-2.11	5.15	-2.01	4.28	-4.15	5.82	.06
16	5.20	-1.51	5.19	-2.12	4.77	-2.89	5.11	-2.01	4.84	-3.91	5.96	.79
17	5.43	-1.07	4.99	-2.16	4.70	-3.25	4.77	-2.94	5.00	-3.02	6.05	.65
18	5.32	-1.60	5.32	-1.71	4.86	-2.43	4.80	-2.62	4.85	-2.93	5.96	.31
19	5.33	-2.14	5.10	-1.85	4.47	-3.13	5.17	-2.38	4.74	-2.84	5.91	.02
20	5.26	-1.14	4.76	-2.12	4.86	-2.46	5.06	-2.54	4.71	-3.03	5.93	-0.13
21	5.34	-0.44	4.87	-1.98	4.68	-2.40	4.63	-2.80	4.44	-3.15	5.64	-0.68
22	4.90	.22	4.75	-1.65	4.47	-2.57	4.67	-1.84	4.48	-2.95	5.25	-1.30
23	4.51	.46	4.44	-2.30	4.39	-2.48	4.64	-1.58	4.68	-2.23	5.11	-1.92
24	4.62	.48	4.50	-2.27	4.22	-3.22	4.90	-1.14	5.08	-2.43	4.68	-2.65
25	4.29	-0.84	4.33	-2.46	4.23	-2.44	5.34	-1.10	5.31	-2.72	4.89	-2.69
26	4.83	-0.39	4.14	-2.65	4.85	-2.19	5.55	-1.21	5.39	-2.85	5.07	-2.77
27	4.91	-0.02	4.57	-2.83	5.20	-2.34	5.65	-1.82	5.39	-3.07	5.06	-3.21
28	5.01	-0.67	4.94	-3.21	5.28	-2.29	5.77	-2.02	5.51	-2.41	5.06	-3.50
29	4.96	-0.52	5.10	-3.49	5.50	-2.96	5.80	-2.02	---	---	5.25	-3.40
30	5.24	-0.78	5.46	-4.00	5.49	-3.41	6.10	-1.10	---	---	5.27	-3.64
31	5.49	-0.92	---	---	5.42	-3.41	5.63	-1.41	---	---	5.44	-2.49
MONTH	5.74	-3.39	6.07	-4.00	5.81	-3.89	6.10	-3.27	5.68	-4.15	6.05	-3.64

SAVANNAH RIVER BASIN

02198840 SAVANNAH RIVER NEAR PORT WENTWORTH, GA.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[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, 740 microsiemens July 1, 2, 5, 1991; minimum recorded, 40 microsiemens on many days in January, February, March, 1987, and March, April 1990.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 740 microsiemens July 1, 2, 5; minimum, 50 microsiemens, on many days in February and March.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, 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	90	80	80	70	100	80	90	80	70	50	90	80
2	100	80	90	70	100	80	90	80	70	50	90	70
3	130	80	90	70	110	100	100	80	60	50	80	70
4	140	100	90	80	110	90	100	90	60	50	70	60
5	160	100	90	80	100	80	100	90	60	50	70	60
6	190	110	90	80	110	90	100	90	60	50	70	60
7	150	110	100	80	100	80	100	90	70	50	70	60
8	140	100	110	90	90	70	90	80	70	60	60	50
9	130	100	100	90	90	70	100	80	70	60	60	50
10	120	90	100	80	90	70	100	90	70	60	60	50
11	110	80	90	80	90	70	100	80	80	60	60	50
12	100	80	90	80	140	80	90	80	80	60	60	50
13	90	80	90	80	110	80	90	80	80	70	60	50
14	90	80	100	80	100	80	90	80	80	70	60	50
15	90	70	90	80	90	70	100	80	80	70	60	50
16	80	60	90	80	110	80	100	80	80	60	60	50
17	90	70	100	80	110	90	90	80	80	60	60	50
18	90	70	100	80	110	100	90	80	80	60	60	50
19	80	70	100	80	110	90	100	80	80	60	70	50
20	80	60	100	80	---	---	100	70	80	70	70	60
21	70	60	110	90	110	90	80	70	90	70	80	60
22	80	60	110	100	100	80	90	70	90	80	80	70
23	70	60	110	90	100	90	90	70	90	70	90	70
24	80	60	100	90	100	80	80	60	90	70	90	80
25	80	70	110	90	90	80	80	60	90	70	90	80
26	80	70	110	100	100	80	80	70	90	70	100	80
27	80	70	110	90	100	90	80	70	90	80	110	90
28	80	60	110	90	100	90	80	70	90	80	110	100
29	80	60	110	90	90	80	70	60	---	---	110	80
30	80	60	100	90	90	80	70	60	---	---	90	80
31	80	60	---	---	100	80	70	60	---	---	90	80
MONTH	190	60	110	70	140	70	100	60	90	50	110	50

SAVANNAH RIVER BASIN

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

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

[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, 10.27 ft July 12, 1991; 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, 10.27 ft, July 12; minimum gage height recorded, -2.92 ft, Feb. 15.

GAGE HEIGHT (FEET ABOVE DATUM), 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	8.63	1.00	9.38	.22	9.52	-0.50	9.60	-0.80	9.33	.54	9.25	-0.19
2	8.75	.40	9.78	.35	9.51	-1.03	9.50	-0.36	9.25	.55	8.94	-0.22
3	8.94	.21	9.82	.43	9.63	-0.82	9.13	-0.98	8.46	-0.49	8.77	.01
4	9.10	.06	9.82	.23	8.75	-1.24	9.21	-0.24	8.01	-0.15	8.10	-0.96
5	9.17	-0.95	9.74	.04	8.80	-1.36	8.97	.88	7.61	.29	8.06	.04
6	9.50	-0.09	9.49	-0.12	8.98	-0.35	8.42	.52	7.48	.75	8.06	.89
7	9.24	-0.15	9.31	.40	8.86	.50	8.06	.93	7.54	1.66	7.07	.48
8	9.11	-0.20	9.41	1.05	8.59	1.11	8.23	2.01	7.65	1.80	7.77	1.34
9	9.36	.62	9.62	2.43	8.34	1.35	8.27	1.54	8.32	1.88	8.00	2.63
10	9.54	2.10	8.41	.10	8.30	.56	8.34	1.58	8.41	1.45	7.91	1.13
11	9.25	1.21	8.41	.35	8.27	1.22	8.94	1.15	8.41	1.15	8.05	1.36
12	9.07	1.53	8.18	-0.03	8.56	.40	8.40	.46	8.41	.53	8.33	1.45
13	8.85	1.31	8.67	.11	8.12	.30	7.91	-0.09	8.69	.56	8.75	1.55
14	8.92	1.31	8.90	.56	7.97	-0.15	8.49	.54	8.06	-0.64	8.80	.68
15	8.78	.89	8.83	.92	8.64	1.00	8.75	.86	7.62	-2.92	9.39	.47
16	8.79	.69	8.80	.49	8.29	.07	8.68	.56	8.29	-2.04	9.54	1.07
17	9.07	1.26	8.55	.55	8.24	-0.29	8.22	-0.58	8.50	-1.08	9.63	.41
18	8.92	.30	8.97	1.25	8.44	.63	8.28	-0.11	8.37	-1.07	9.53	-0.19
19	8.95	-0.33	8.71	1.05	8.03	-0.26	8.73	.34	8.18	-0.94	9.50	-0.23
20	8.87	1.12	8.33	1.02	8.49	.64	8.34	-0.31	8.16	-0.95	9.34	.18
21	8.93	1.32	8.51	1.18	8.25	.46	7.97	-0.69	7.91	-0.79	9.21	.00
22	8.21	1.32	8.35	1.47	8.01	.25	8.16	.65	7.95	-0.26	8.78	-0.07
23	7.70	1.41	7.99	.76	7.88	.40	8.19	.92	8.17	.58	8.63	.09
24	7.88	1.88	8.00	1.01	7.70	-0.29	8.42	1.49	8.69	-0.04	8.16	-0.23
25	7.60	.69	7.84	.73	7.74	.74	8.97	1.48	8.95	.16	8.38	-0.21
26	8.33	1.81	7.65	.60	8.44	.98	9.20	.42	9.03	-0.52	8.63	-0.43
27	8.44	2.64	8.07	.29	8.83	.67	9.30	.38	9.02	-1.08	8.64	-0.73
28	8.56	1.69	8.49	-0.52	8.93	-0.14	9.43	-0.26	9.18	-0.47	8.61	-1.42
29	8.52	1.60	8.69	-1.40	9.20	-0.20	9.49	-0.55	---	---	8.83	-1.38
30	8.83	1.37	9.17	-1.51	9.17	-1.05	9.88	.17	---	---	8.86	-1.77
31	9.11	.92	---	---	9.09	-1.38	9.27	-0.45	---	---	9.07	-0.40
MONTH	9.54	-0.95	9.82	-1.51	9.63	-1.38	9.88	-0.98	9.33	-2.92	9.63	-1.77

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[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, 14,800 microsiemens Sept. 18; minimum, 50 microsiemens on many days in May and August.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, 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	11800	150	2760	80	8130	130	6550	100	1380	80	4140	100
2	11800	200	2680	80	8570	120	6320	120	1120	70	3340	100
3	12000	230	2580	80	8520	130	5960	110	880	70	2750	90
4	12200	290	2350	80	7020	130	5730	110	530	70	1760	80
5	11200	170	2360	80	6790	120	5260	120	90	70	1570	80
6	11400	290	2480	80	6700	120	4930	110	100	70	1340	80
7	11000	260	2870	90	6070	120	4230	100	100	80	100	70
8	9980	180	3220	110	5540	110	4300	100	110	80	160	70
9	10300	220	3950	120	5010	100	5370	110	200	80	100	70
10	9830	280	3430	100	4940	90	6850	110	1740	80	110	70
11	7410	130	3720	90	4780	100	9870	110	2070	80	100	70
12	5250	100	3980	90	5570	100	6350	100	2570	90	190	70
13	3630	90	4310	100	5800	100	5880	100	2620	90	1450	70
14	2980	90	4180	100	5620	110	5850	100	2380	90	610	70
15	3060	80	4110	100	5640	100	6360	110	2450	90	890	70
16	2860	70	3740	100	6110	100	5740	110	2930	90	100	70
17	2550	70	3540	100	6370	100	4340	100	2650	90	110	70
18	2390	70	3830	100	6600	120	3770	100	2450	80	170	70
19	390	70	4600	110	6580	110	3810	100	2200	80	170	80
20	190	60	4870	100	6280	110	3630	100	1940	90	140	80
21	100	60	5100	110	5800	110	2940	90	1840	80	120	80
22	90	60	5470	120	5120	100	2680	90	1760	100	130	90
23	70	60	6030	120	4620	100	2620	90	2400	100	140	90
24	80	70	5470	110	4380	100	2710	90	3030	90	150	100
25	90	70	7040	110	5410	100	2630	80	3910	90	2850	100
26	1420	80	6830	110	6680	100	2060	90	4210	100	4330	100
27	1590	70	7230	110	6740	110	2370	90	4540	100	2350	110
28	2260	70	7500	120	6550	110	2480	90	4320	100	2300	120
29	2890	70	7730	110	6470	100	2350	90	---	---	1190	120
30	3170	70	7910	120	6450	100	2210	80	---	---	730	100
31	3120	70	---	---	6250	100	1700	80	---	---	790	100
MONTH	12200	60	7910	80	8570	90	9870	80	4540	70	4330	70

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

[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, 10.11 ft July 12, 1991; minimum gage height recorded, -2.74 ft, Apr. 7, 1989, Feb. 24, 1990, and Feb. 15, 1991, 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, 10.11 ft, July 12; minimum gage height recorded, -2.74 ft, Feb. 15, 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 1990 TO SEPTEMBER 1991

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.28	.57	9.15	-0.34	9.34	-0.81	9.44	-1.11	9.13	-0.06	9.02	-0.59
2	8.44	.10	9.63	-0.30	9.34	-1.42	9.34	-0.88	9.07	-0.16	8.69	-0.61
3	8.65	-0.15	9.68	-0.24	9.48	-1.16	8.89	-1.30	7.97	-1.16	8.46	-0.59
4	8.88	-0.34	9.67	-0.37	8.51	-1.55	8.99	-0.52	7.50	-0.54	7.40	-1.29
5	8.98	-1.30	9.57	-0.42	8.50	-1.56	8.71	.37	7.18	-0.01	7.58	-0.24
6	9.35	-0.47	9.33	-0.51	8.70	-0.56	8.09	.29	7.06	.52	7.59	.63
7	9.02	-0.51	9.07	.16	8.57	.29	7.63	.52	7.11	1.34	6.65	.15
8	8.86	-0.44	9.17	.90	8.28	.90	7.83	1.71	7.11	1.52	7.14	1.21
9	9.10	.39	9.41	2.16	7.99	1.15	7.88	1.19	7.84	1.70	7.56	2.48
10	9.28	1.82	8.07	-0.03	7.90	.41	7.95	1.42	7.99	1.05	7.39	.90
11	9.03	.93	7.98	.22	7.85	1.06	8.60	.98	7.97	.75	7.53	1.14
12	8.81	1.08	7.72	-0.12	8.18	.28	7.99	-0.09	7.95	.32	7.86	1.27
13	8.56	1.03	8.31	.31	7.69	-0.12	7.41	-0.27	8.34	.25	8.42	1.04
14	8.61	.72	8.59	.36	7.46	-0.35	8.09	.33	7.61	-0.87	8.49	.24
15	8.45	.59	8.53	.70	8.30	.83	8.44	.65	7.18	---	9.10	-0.17
16	8.48	.28	8.50	.24	7.91	-0.13	8.35	.31	7.86	-2.21	9.28	.52
17	8.80	.78	8.21	.35	7.84	-0.51	7.81	-0.82	8.14	-1.36	9.37	-0.22
18	8.59	.00	8.67	1.09	8.08	.42	7.88	-0.33	7.95	-1.37	9.28	-0.82
19	8.66	-0.55	8.39	.81	7.60	-0.42	8.43	.13	7.76	-1.27	9.22	-0.73
20	8.57	.88	7.95	.85	8.13	.47	7.64	-0.57	7.66	-1.25	8.91	-0.32
21	8.61	1.03	8.14	1.11	7.85	.25	7.23	-0.97	7.42	-0.97	8.89	-0.35
22	7.89	.97	7.95	1.31	7.57	.00	7.70	.32	7.47	-0.43	8.48	-0.33
23	7.36	1.03	7.55	.63	7.37	.21	7.89	.66	7.72	.43	8.26	-0.11
24	7.49	1.53	7.56	.90	7.16	-0.42	8.06	1.22	8.33	-0.22	7.73	-0.38
25	7.17	.48	7.35	.58	7.22	.62	8.70	1.23	8.65	-0.54	7.95	-0.35
26	7.86	1.66	7.11	.45	8.07	.85	8.93	.07	8.76	-0.77	8.23	-0.85
27	8.02	2.42	7.64	.18	8.56	.52	9.05	-0.17	8.74	-1.44	8.28	-1.09
28	8.17	1.44	8.13	-0.68	8.63	-0.39	9.19	-0.72	8.95	-0.92	8.21	-1.53
29	8.10	1.35	8.42	-1.73	8.95	-0.59	9.32	-1.08	---	---	8.48	-1.58
30	8.49	.50	8.92	-1.58	8.95	-1.32	9.78	-0.83	---	---	8.53	-1.81
31	8.81	.48	---	---	8.84	-1.71	9.12	-1.16	---	---	8.76	-0.56
MONTH	9.35	-1.30	9.68	-1.73	9.48	-1.71	9.78	-1.30	9.13	---	9.37	-1.81

SAVANNAH RIVER BASIN

02198977 SAVANNAH RIVER AT BROAD STREET AT SAVANNAH, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[illegible]

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 current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 12,200 microsiemens Oct. 6, 1990; minimum recorded, 50 microsiemens on many days in August 1991.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 12,200 microsiemens Oct. 6; minimum recorded, 50 microsiemens on many days in August.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, 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	700	300	500	200	10200	300	7300	200	810	100	1080	150
2	2000	300	1800	200	9000	400	6800	400	800	90	860	130
3	5900	400	2000	200	9000	500	3800	300	940	80	220	110
4	8300	500	2600	200	1900	300	2100	300	890	80	170	90
5	11200	600	2700	200	3800	200	900	300	1040	70	150	80
6	12200	700	1500	200	2000	200	900	200	1090	80	200	80
7	10700	900	700	200	700	200	600	200	370	70	240	70
8	8500	800	800	100	500	100	600	100	440	70	140	60
9	10300	700	900	100	300	100	500	100	250	70	110	60
10	5400	500	600	100	200	100	700	100	590	80	220	60
11	1000	300	700	100	200	100	300	100	600	80	130	60
12	500	300	600	100	200	100	800	200	160	80	250	60
13	400	200	700	100	200	100	1100	200	130	90	230	60
14	400	200	700	100	200	100	800	200	230	90	340	60
15	400	200	800	100	300	100	1000	200	130	90	140	60
16	400	200	800	100	200	100	800	200	130	90	80	60
17	300	200	600	100	300	100	1200	200	130	90	80	60
18	400	200	400	100	400	100	1100	100	130	90	120	60
19	300	200	500	100	300	100	1000	200	600	80	150	70
20	300	200	700	100	300	100	1100	100	230	90	150	60
21	300	200	400	100	300	100	1200	100	290	90	200	70
22	300	200	300	100	300	100	700	100	250	90	230	70
23	300	200	500	100	300	100	700	100	160	100	350	80
24	300	200	300	100	300	100	600	100	190	100	400	90
25	300	200	200	100	200	100	500	100	170	100	370	100
26	300	200	300	100	300	100	800	100	540	110	710	100
27	300	200	500	100	400	100	800	100	880	120	990	110
28	300	200	500	100	400	200	1100	200	1130	140	640	120
29	400	200	800	100	1800	200	1700	200	---	---	620	120
30	400	200	8600	100	6700	200	2090	110	---	---	770	110
31	300	200	---	---	5000	200	660	100	---	---	310	100
MONTH	12200	200	8600	100	10200	100	7300	100	1130	70	1080	60

[illegible]

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, 10.13 ft, July 12, 1991; 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, 10.13 ft, July 12; minimum gage height recorded, -1.57 ft, Feb. 15, 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 1990 TO SEPTEMBER 1991

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.74	1.07	9.42	1.00	9.48	-0.18	9.56	-0.29	9.36	1.28	9.29	.41
2	8.85	.59	9.75	1.22	9.47	-0.65	9.47	.29	9.30	1.62	9.03	.50
3	9.01	.53	9.78	1.40	9.59	-0.46	9.18	-0.39	8.70	.28	8.95	.94
4	9.14	.47	9.77	1.05	8.86	-0.83	9.24	.19	8.24	.43	8.40	-0.37
5	9.19	-0.39	9.70	.72	8.90	-1.08	9.06	1.35	7.84	.72	8.19	.40
6	9.47	.36	9.51	.53	9.04	-0.20	8.59	.82	7.72	1.12	8.25	1.28
7	9.26	.28	9.36	.73	8.96	.60	8.28	1.08	7.78	1.90	7.26	.84
8	9.15	.18	9.43	1.28	8.74	1.31	8.40	2.01	7.93	2.03	7.96	1.60
9	9.35	.77	9.62	2.65	8.51	1.47	8.44	1.66	8.46	2.37	8.16	2.81
10	9.54	2.20	8.58	.31	8.48	.68	8.50	1.69	8.55	2.11	8.11	1.50
11	9.33	1.47	8.56	.61	8.46	1.36	9.04	1.92	8.57	1.48	8.22	2.02
12	9.17	2.04	8.38	.44	8.69	.98	8.56	1.33	8.56	.80	8.49	1.74
13	8.96	1.67	8.79	.22	8.33	.53	8.13	.14	8.81	.90	8.86	1.98
14	9.03	1.67	9.00	.80	8.16	.04	8.63	.74	8.27	-0.24	8.90	1.34
15	8.89	1.29	8.96	1.15	8.76	1.11	8.88	1.07	7.90	---	9.44	1.44
16	8.91	1.18	8.93	.77	8.46	.22	8.82	.93	8.45	-1.55	9.56	2.18
17	9.15	1.72	8.70	.81	8.42	-0.15	8.41	-0.19	8.63	-0.59	9.64	1.84
18	9.04	.89	9.07	1.41	8.61	.77	8.45	.24	8.51	-0.56	9.55	1.37
19	9.06	.21	8.85	1.29	8.24	-0.03	8.88	.60	8.49	-0.44	9.52	1.06
20	8.98	1.48	8.50	1.14	8.63	.76	8.85	.16	8.37	-0.55	9.53	1.14
21	9.04	1.80	8.65	1.33	8.42	.65	8.32	-0.22	8.13	-0.48	9.28	.82
22	8.39	1.85	8.51	1.58	8.21	.44	8.34	1.01	8.17	-0.07	8.91	.56
23	7.95	1.90	8.20	.89	8.10	.58	8.36	1.24	8.36	.78	8.77	.46
24	8.09	2.27	8.21	1.06	7.92	-0.15	8.59	1.78	8.80	.45	8.33	.04
25	7.84	1.04	8.04	.80	7.96	.80	9.06	1.76	9.02	.17	8.52	.12
26	8.47	2.04	7.86	.64	8.57	1.08	9.26	1.48	9.09	-0.14	8.75	.12
27	8.58	2.81	8.27	.43	8.92	.88	9.34	.78	9.09	-0.48	8.77	-0.38
28	8.68	1.95	8.65	-0.01	9.02	.89	9.46	.44	9.21	.22	8.75	-0.79
29	8.66	2.12	8.82	-0.38	9.24	.05	9.50	.29	---	---	8.98	-0.78
30	8.94	1.87	9.22	-1.08	9.23	-0.53	9.81	1.17	---	---	8.97	-1.11
31	9.18	1.42	---	---	9.15	-0.64	9.33	.73	---	---	9.16	.18
MONTH	9.54	-0.39	9.78	-1.08	9.59	-1.08	9.81	-0.39	9.36	---	9.64	-1.11

[illegible]

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 current year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 13,700 microsiemens Oct. 2, 1990; minimum recorded, 50 microsiemens Mar. 30, 31, Apr. 1, 1990.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 13,700 microsiemens Oct. 2; minimum recorded, 60 microsiemens on many days in March, May, June, and August.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, 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	12400	170	4770	90	11600	420	9590	330	2110	110	5820	170
2	13700	230	4040	100	11400	620	7800	430	1670	100	5340	130
3	13600	350	3590	120	11100	700	7550	370	170	80	4510	110
4	13300	510	3300	120	8890	640	8010	350	180	70	230	80
5	12900	560	3260	120	8730	430	8530	340	180	70	200	80
6	13200	780	3470	130	9480	360	5040	220	190	70	120	70
7	13000	1010	4270	140	9140	300	790	190	170	70	100	70
8	12000	160	4810	140	4450	180	760	140	170	70	100	60
9	11400	240	6540	160	1080	120	500	130	110	70	80	60
10	11000	240	290	130	620	110	1140	140	140	70	90	60
11	8590	390	3070	120	5740	120	8250	130	200	80	80	60
12	6340	270	550	110	7330	120	4520	120	380	90	90	60
13	4420	260	7320	110	7230	130	1960	120	4170	90	100	60
14	8670	240	7400	100	6920	120	7970	130	820	100	200	60
15	3980	240	7250	110	8720	120	9200	170	870	100	750	60
16	4010	230	6260	100	8960	140	8110	140	4800	90	120	60
17	4370	220	4720	110	9240	140	4010	130	4390	100	100	60
18	2950	220	6330	120	9410	190	4960	130	4170	100	90	60
19	390	200	7380	120	6790	160	6500	140	3810	100	100	70
20	270	180	5150	130	9010	160	4050	110	3240	100	130	80
21	240	170	7680	140	1970	130	1120	110	1160	100	140	80
22	220	150	1550	130	580	120	320	100	1170	90	160	90
23	210	130	440	130	710	110	210	90	2290	90	130	90
24	200	80	690	140	360	110	220	90	4220	100	110	90
25	110	80	490	120	1190	110	2670	80	6390	100	140	100
26	110	90	630	140	7300	110	4400	90	6350	110	310	100
27	100	80	6560	150	8830	140	4360	100	6790	130	350	110
28	120	80	10400	170	9250	140	4200	100	6270	170	280	120
29	200	80	10000	190	9040	150	3730	100	---	---	270	120
30	3710	80	10100	220	8640	210	3020	120	---	---	190	120
31	6410	80	---	---	8380	290	2840	110	---	---	210	110
MONTH	13700	80	10400	90	11600	110	9590	80	6790	70	5820	60

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

[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, 9.33 ft, July 12, 1991; minimum gage height recorded, -3.73 ft, Apr. 7, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum gage height recorded, 9.33 ft, July 12; minimum gage height recorded, -3.01 ft, Feb. 15.

GAGE HEIGHT (FEET ABOVE DATUM), 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	7.35	-0.05	8.27	-0.62	8.58	-0.98	8.69	-1.27	8.22	-0.47	8.14	-1.77
2	7.64	.02	---	---	8.53	-1.61	8.59	-1.15	8.07	-0.79	7.78	-1.11
3	7.80	-0.39	---	---	8.72	-1.36	8.10	-1.45	6.76	-1.28	7.39	-1.09
4	8.02	-0.59	---	---	7.68	-1.70	8.19	-0.67	6.24	-0.68	6.08	-1.39
5	8.18	-1.41	---	---	7.65	-1.56	7.81	-0.10	6.01	-0.20	6.53	-0.45
6	8.56	-0.65	---	---	7.86	-0.65	7.09	.05	5.94	.32	6.32	.40
7	8.42	-0.71	8.21	-0.01	7.62	.12	6.58	.52	6.02	.72	5.74	.10
8	8.05	-0.55	8.32	.65	7.40	.53	6.78	1.41	6.04	1.34	5.97	.90
9	8.22	.25	---	1.89	6.97	.89	6.94	1.21	6.90	1.35	6.64	2.12
10	8.43	1.53	---	---	6.91	.25	6.90	1.31	6.95	.72	6.38	.85
11	8.05	.69	---	---	6.81	.91	7.74	.81	6.92	.14	6.55	.85
12	7.84	.73	---	---	7.27	.12	7.02	-0.41	6.94	.07	6.80	.91
13	7.61	.61	---	---	6.60	-0.42	6.41	-0.25	7.32	-0.02	7.41	.06
14	7.59	---	7.67	.48	6.42	-0.20	7.20	.23	6.34	-0.93	7.42	-0.16
15	---	---	7.62	.41	7.40	.47	7.50	.42	5.99	-3.01	8.13	-0.57
16	---	---	7.57	.06	6.86	-0.55	7.36	-0.05	6.66	-2.19	8.29	.30
17	---	---	7.21	.14	6.87	-0.61	6.57	-0.93	6.97	-1.50	8.41	-0.37
18	---	---	7.85	.91	7.15	.14	6.80	-0.54	6.80	-1.48	8.29	-0.88
19	---	---	7.51	.58	6.61	-0.56	7.40	-0.07	6.60	-1.40	8.29	-0.78
20	7.62	.86	7.03	.69	7.23	.25	6.33	-0.70	6.28	-1.36	7.92	-0.39
21	7.68	.92	7.26	.95	6.89	.00	6.12	-1.22	6.23	-1.08	7.50	-0.38
22	6.96	.72	7.08	.79	6.53	-0.24	6.57	.14	6.32	-0.58	7.41	-0.36
23	6.26	.72	6.59	.58	6.35	-0.02	7.04	.40	6.58	.15	7.22	-0.19
24	6.50	1.19	6.50	.62	5.96	-0.62	7.05	.90	7.42	-0.36	6.55	-0.38
25	6.20	.36	6.31	.05	6.16	.43	7.91	.93	7.68	-0.85	6.87	-0.25
26	6.91	1.46	6.03	.29	7.13	.56	8.05	-0.15	7.87	-1.23	7.18	-0.74
27	7.08	2.12	6.53	.01	7.58	.31	8.13	-1.07	7.92	-1.52	7.31	-1.03
28	7.22	1.21	7.13	-0.81	7.73	-0.58	8.33	-0.96	8.13	-1.25	7.16	-1.46
29	7.14	1.10	7.43	-1.73	8.10	-1.40	8.48	-1.42	---	---	7.45	-1.55
30	7.54	.23	8.14	-1.07	8.09	-1.40	9.01	-1.24	---	---	7.57	-1.74
31	7.84	-0.60	---	---	7.98	-1.91	8.24	-1.76	---	---	7.83	-0.55
MONTH	---	---	---	---	8.72	-1.91	9.01	-1.76	8.22	-3.01	8.41	-1.77

SAVANNAH RIVER BASIN

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

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[illegible]

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 1990 TO SEPTEMBER 1991

Date	Elevation (feet)*	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1864.4	102000	-	-
Oct. 31.....	1864.0	101000	-1000	-16
Nov. 30.....	1863.7	99800	-1200	-20
Dec. 31.....	1858.5	86200	-13600	-221
CAL YR 1990	-	-	-1000	-1
Jan. 31.....	1857.8	84500	-1700	-28
Feb. 28.....	1857.6	84000	-500	-9
Mar. 31.....	1864.4	102000	+ 18000	+293
Apr. 30.....	1864.7	103000	+ 1000	+ 17
May 31.....	1864.5	102000	-1000	-16
June 30.....	1865.0	103000	+ 1000	+ 17
July 31.....	1865.1	104000	+ 1000	+ 16
Aug. 31.....	1865.4	105000	+ 1000	+ 16
Sept. 30.....	1864.6	102000	-3000	-50
WTR YR 1991	-	-	0	0

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 1990 TO SEPTEMBER 1991

Date	Elevation (feet)*	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1687.0	29200	-	-
Oct. 31.....	1687.9	29800	+ 600	+ 10
Nov. 30.....	1676.2	21800	-8000	-134
Dec. 31.....	1688.0	29900	+ 8100	+ 132
CAL YR 1990	-	-	-600	-1
Jan. 31.....	1687.1	29300	-600	-10
Feb. 28.....	1687.6	29600	+ 300	+ 5
Mar. 31.....	1687.9	29800	+ 200	+ 3
Apr. 30.....	1687.3	29400	-400	-7
May 31.....	1687.6	29600	+ 200	+ 3
June 30.....	1687.5	29500	-100	-2
July 31.....	1688.1	30000	+ 500	+ 8
Aug. 31.....	1688.0	29900	-100	-2
Sept. 30.....	1687.8	29800	-100	-2
WTR YR 1991	-	-	+ 600	+ 1

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

LAKES AND RESERVOIRS IN SAVANNAH RIVER BASIN--Continued

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).

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, 2,747,300 acre-ft, Mar. 6, elevation, 663.42 ft; minimum, 2,223,900 acre-ft, Dec. 20, 21, elevation, 653.84 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	655.03	2283900	-	-
Oct. 31.....	655.60	2313200	+29300	+477
Nov. 30.....	654.24	2243900	-69300	-1165
Dec. 31.....	654.97	2280900	+37000	+602
CAL YR 1990	-	-	-136400	-188
Jan. 31.....	656.92	2382100	+101200	+1646
Feb. 28.....	658.28	2455000	+72900	+1313
Mar. 31.....	661.43	2630800	+175800	+2859
Apr. 30.....	662.52	2694100	+63300	+1064
May 31.....	661.81	2652700	-41400	-673
June 30.....	662.70	2704600	+51900	+872
July 31.....	661.27	2621600	-83000	-1350
Aug. 31.....	660.58	2582400	-39200	-638
Sept. 30.....	659.13	2501400	-81000	-1361
WTR YR 1991	-	-	+217500	+300

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, 1,105,800 acre-ft, Dec. 21, 1985, elevation, 477.90 ft; minimum, 799,000 acre-ft, May 7, 1984, elevation, 465.65 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,118,500 acre-ft, May 6, elevation, 478.35 ft; minimum, 911,500 acre-ft, Oct. 9, elevation, 470.50 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	471.24	929700	-	-
Oct. 31.....	471.12	926700	-3000	-49
Nov. 30.....	474.20	1005100	+ 78400	+ 1318
Dec. 31.....	474.72	1018800	+ 13700	+ 223
CAL YR 1990	-	-	-11700	-16
Jan. 31.....	475.73	1045800	+ 27000	+ 439
Feb. 28.....	475.27	1033500	-12300	-221
Mar. 31.....	476.95	1079200	+ 45700	+ 743
Apr. 30.....	477.80	1102900	+ 23700	+ 398
May 31.....	476.05	1054500	-48400	-787
June 30.....	474.90	1023600	-30900	-519
July 31.....	476.15	1057200	+ 33600	+ 546
Aug. 31.....	475.88	1049900	-7300	-119
Sept. 30.....	476.45	1065400	+ 15500	+ 260
WTR YR 1991	-	-	+ 135700	+ 187

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 at 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, 2,715,900 acre-ft, Apr. 1, elevation, 332.64 ft; minimum, 2,097,000 acre-ft, Oct. 1, elevation, 323.95 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	323.96	2097600	-	-
Oct. 31.....	326.72	2280400	+182800	+2973
Nov. 30.....	325.34	2183800	-96600	-1623
Dec. 31.....	324.32	2119200	-64600	-1051
CAL YR 1990	-	-	-242400	-335
Jan. 31.....	328.84	2428800	+309600	+5035
Feb. 28.....	329.48	2473600	+44800	+807
Mar. 31.....	332.44	2700300	+226700	+3687
Apr. 30.....	331.70	2642600	-57700	-970
May 31.....	331.03	2590300	-52300	-851
June 30.....	331.85	2654300	+64000	+1076
July 31.....	331.59	2634000	-20300	-330
Aug. 31.....	329.95	2506500	-127500	-2074
Sept. 30.....	329.17	2451900	-54600	-918
WTR YR 1991	-	-	+354300	+489

OGEECHEE RIVER BASIN

02200950 OGEECHEE RIVER NEAR WADLEY, GA.

LOCATION.--Lat 32°52'11", long 82°19'11", Jefferson County, Hydrologic Unit 03060201, at bridge on State Highway 78, 4.5 miles east of Wadley.

DRAINAGE AREA.--990 mi², approximately.

PERIOD OF RECORD.--July 1991 to September 1991.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 31...	1045	2.24	70	69	6.9	6.8	26.0	32.0	5.5	68
AUG 27...	1050	8.08	44	43	6.4	6.4	24.5	28.0	5.5	66
SEP 17...	1040	1.59	71	61	6.9	6.8	26.0	32.0	6.1	75

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)
JUL 31...	70	10	0.5	20	22	0.250	0.030	0.220	6.2
AUG 27...	110	21	1.0	790	12	0.090	<0.030	<0.020	13
SEP 17...	70	8.0	0.7	50	20	0.250	0.040	0.090	7.4

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.--11 years, 89.9 ft³/s, 11.20 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. 12	1330	2,110	9.74	Mar. 4	0530	*2,370	*10.02
Jan. 31	1100	2,030	9.65	Mar. 30	1430	1,800	9.37

Minimum discharge, 17 ft³/s, Oct. 4, 9, and 10.

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	19	50	58	88	896	100	347	255	72	43	66	62
2	18	49	55	116	417	400	214	209	66	48	92	54
3	18	49	57	108	276	1160	172	147	65	64	77	50
4	18	49	69	95	221	1820	155	118	63	51	58	46
5	20	48	63	77	194	691	179	145	67	109	47	42
6	20	47	57	69	177	374	357	291	60	128	42	41
7	19	46	59	67	251	283	329	247	54	115	39	39
8	18	45	93	66	330	211	231	152	49	67	38	38
9	18	59	88	62	215	197	200	132	46	51	37	37
10	23	219	68	60	175	179	257	179	45	45	51	35
11	57	200	60	116	151	163	211	164	44	41	77	34
12	1380	97	57	288	136	155	163	131	43	38	172	33
13	1050	72	56	232	127	174	152	135	44	35	107	33
14	337	61	54	133	133	203	141	149	47	34	133	32
15	109	56	55	103	127	170	138	130	58	34	368	32
16	66	55	56	179	112	152	196	126	66	73	212	32
17	52	54	56	214	107	142	152	284	61	228	112	34
18	52	52	56	132	109	149	126	263	59	209	79	34
19	54	53	73	120	110	146	132	177	54	116	63	32
20	46	52	100	200	109	132	199	137	55	82	60	32
21	40	52	179	192	110	124	223	121	58	64	51	32
22	54	52	132	134	110	121	170	124	53	55	44	31
23	302	53	95	107	178	118	134	119	54	48	41	31
24	366	54	93	146	203	116	123	115	48	42	40	31
25	162	53	81	335	151	108	110	105	44	38	41	32
26	107	51	67	280	127	103	102	94	43	35	164	35
27	79	52	60	175	109	101	121	127	46	36	294	32
28	66	55	59	149	100	102	293	115	48	42	203	31
29	59	73	62	149	---	204	307	100	46	65	126	30
30	55	71	65	448	---	1400	241	94	47	75	94	28
31	52	---	77	1760	---	745	---	85	---	61	75	---
TOTAL	4736	1979	2260	6400	5461	10243	5875	4770	1605	2172	3103	1085
MEAN	153	66.0	72.9	206	195	330	196	154	53.5	70.1	100	36.2
MAX	1380	219	179	1760	896	1820	357	291	72	228	368	62
MIN	18	45	54	60	100	100	102	85	43	34	37	28
CFSM	1.40	.61	.67	1.89	1.79	3.03	1.80	1.41	.49	.64	.92	.33
IN.	1.62	.68	.77	2.18	1.86	3.50	2.01	1.63	.55	.74	1.06	.37
CAL YR 1990	TOTAL 28187		MEAN 77.2	MAX 1380	MIN 12	CFSM .71		IN 9.62				
WTR YR 1991	TOTAL 49689		MEAN 136	MAX 1820	MIN 18	CFSM 1.25		IN 16.96				

OGEECHEE RIVER BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1990 to current year.

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 1990 TO SEPTEMBER 1991

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 11...	1115	58	61	63	6.8	6.8	7.5	17.5	7.2	60
MAR 12...	1050	155	46	46	6.6	6.7	10.0	18.0	7.7	69
JUN 11...	1000	45	61	62	6.9	6.9	21.0	30.0	5.9	66
JUL 30...	1210	73	64	65	6.9	6.9	25.5	32.0	6.3	78
SEP 17...	1200	35	67	64	7.0	7.0	25.0	35.5	6.9	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- 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 11...	60	4.0	0.5	130	19	0.140	0.060	0.060	<1.0
MAR 12...	70	9.0	0.6	50	12	0.230	<0.030	0.060	6.2
JUN 11...	70	9.0	1.3	330	21	0.240	<0.030	0.100	4.6
JUL 30...	50	9.0	0.6	80	22	0.130	0.040	0.140	4.6
SEP 17...	30	6.0	0.7	170	23	0.210	<0.030	0.090	5.9

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 1990 TO SEPTEMBER 1991

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 16...	0850	4000	85	84	6.3	6.1	21.0	22.0	4.5	50
NOV 13...	0920	2250	75	76	6.5	6.7	13.0	17.5	7.5	71
DEC 11...	0900	1350	91	91	7.2	6.8	7.5	8.5	8.6	71
JAN 22...	0925	4100	58	60	6.7	6.6	7.5	8.0	8.9	74
FEB 12...	0910	7800	48	49	6.6	6.6	10.0	12.0	6.3	55
MAR 12...	0825	11500	42	40	6.7	6.6	11.0	12.5	7.8	71
APR 03...	0830	3500	68	65	6.8	7.0	15.0	19.0	6.3	62
MAY 14...	0815	4100	66	66	6.9	6.8	22.5	27.0	4.1	47
JUN 11...	0745	1550	85	85	7.0	7.1	22.0	26.5	4.9	56
JUL 30...	0845	3300	67	65	6.9	6.8	25.5	28.0	5.4	66
AUG 27...	0850	7000	55	53	6.8	6.6	25.0	27.0	5.3	64
SEP 17...	0845	1300	92	90	6.9	6.8	26.5	32.0	5.1	63

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 16...	120	4.0	--	1.6	490	8	3
NOV 13...	90	4.0	--	1.4	140	17	3
DEC 11...	75	5.0	--	0.7	230	26	1
JAN 22...	90	10	--	0.4	1300	13	3
FEB 12...	110	14	--	1.3	80	10	3
MAR 12...	120	23	--	0.7	50	10	5
APR 03...	100	10	--	1.3	490	20	5
MAY 14...	120	10	--	0.8	40	22	4
JUN 11...	120	13	--	1.5	30	29	--
JUL 30...	65	8.0	35	1.0	490	20	2
AUG 27...	100	9.0	37	0.8	65	15	3
SEP 17...	90	10	25	1.0	80	30	13

OGEECHEE RIVER BASIN

02202190 OGEECHEE RIVER NEAR OLIVER, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 16...	0.060	<0.030	--	0.110	19
NOV 13...	0.060	<0.030	--	0.110	16
DEC 11...	0.030	<0.030	--	0.120	11
JAN 22...	0.030	<0.030	--	0.080	12
FEB 12...	0.030	<0.030	--	0.140	9.2
MAR 12...	0.080	<0.030	--	0.080	8.8
APR 03...	0.200	0.050	--	0.110	12
MAY 14...	0.160	<0.030	--	0.210	11
JUN 11...	0.200	<0.030	--	0.160	9.7
JUL 30...	0.090	0.040	0.50	0.150	7.0
AUG 27...	0.040	<0.030	0.40	0.070	16
SEP 17...	0.170	0.040	0.40	0.130	11

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.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--54 years, 2,325 ft³/s, 11.91 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,800 ft³/s, Mar. 19, 1980, gage height, 14.77 ft; minimum daily, 96 ft³/s, Oct. 6, 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. 20	0600	*26,800	*14.41	Apr. 23	0700	6,450	9.74
Feb. 5	2300	21,400	13.32	June 4	0100	5,440	9.29
Mar. 10	0100	23,100	13.68	Aug. 8	1000	11,700	11.24
Apr. 8	1500	8,760	10.49	Aug. 31	1900	15,900	12.19

Minimum daily discharge, 96 ft³/s, Oct. 6.

OGEECHEE RIVER BASIN

02202500 OGEECHEE RIVER NEAR EDEN, 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	122	4850	1520	1740	11300	2740	3300	4920	4000	1430	4620	15000
2	116	4390	1460	1840	12700	2920	3270	4780	4820	1360	5850	12900
3	111	3990	1400	1930	14900	3430	3230	4790	5320	1280	7580	11200
4	106	3580	1350	2030	18200	4150	3290	5240	5360	1230	9130	9700
5	101	3250	1310	2110	20800	5560	3820	5610	4900	1190	8940	7980
6	96	3000	1280	2150	21100	7870	5520	5880	4230	1130	9160	6380
7	106	2840	1270	2150	19200	10400	7710	5840	3590	1080	10700	5130
8	106	2740	1280	2110	16300	16400	8410	5540	3130	1080	11600	4270
9	116	2680	1310	2050	13900	22100	7700	5110	2750	1060	10900	3880
10	146	2810	1360	2000	12600	22500	7040	4820	2410	1040	9200	3630
11	254	2700	1400	2090	11800	19900	6520	5000	2120	1050	7390	3320
12	353	2550	1420	2260	10900	16900	6110	5570	1850	1030	5840	3000
13	626	2380	1420	2400	9870	15000	5800	5890	1600	1040	4780	2650
14	873	2270	1420	2550	9060	13500	5440	5690	1490	1070	4120	2270
15	1210	2280	1440	2690	8330	11800	4980	5260	1510	1090	3740	1970
16	1620	2390	1460	2820	7550	10200	4590	4760	1520	1170	3510	1750
17	2560	2510	1490	2880	6770	8820	4250	4440	1460	1540	3400	1610
18	6180	2570	1520	2870	6070	7740	3980	4400	1350	1740	3300	1490
19	23200	2610	1580	2920	5420	6910	3980	4690	1250	2050	3290	1370
20	26300	2630	1690	3420	4830	6280	4660	4890	1210	2200	3710	1260
21	23000	2610	1800	3830	4370	5690	5330	5330	1240	2120	4590	1210
22	17600	2530	1820	4330	3960	5170	6090	5480	1320	1910	5330	1140
23	12800	2400	1870	4750	3620	4750	6380	4750	1480	1790	5670	1040
24	9330	2260	1900	5210	3370	4410	6200	4110	1680	1850	5780	975
25	7050	2160	1910	5910	3170	4070	6130	3640	1920	2350	5910	937
26	5790	2060	1870	6400	3000	3780	5990	3370	2010	2750	7610	909
27	5160	1960	1830	6930	2870	3560	5600	3290	1880	3100	11300	895
28	5300	1840	1790	7570	2790	3410	5380	3310	1670	3560	14900	900
29	6040	1710	1760	7960	---	3270	4770	3320	1540	3870	13800	895
30	6060	1590	1730	9020	---	3270	4650	3290	1470	3960	13700	907
31	5480	---	1710	10100	---	3250	---	3490	---	4000	15600	---
TOTAL	167912	80140	48370	119020	268750	259750	160120	146500	72080	57120	234950	110568
MEAN	5417	2671	1560	3839	9598	8379	5337	4726	2403	1843	7579	3686
MAX	26300	4850	1910	10100	21100	22500	8410	5890	5360	4000	15600	15000
MIN	96	1590	1270	1740	2790	2740	3230	3290	1210	1030	3290	895
CFSM	2.04	1.01	.59	1.45	3.62	3.16	2.01	1.78	.91	.70	2.86	1.39
IN.	2.36	1.12	.68	1.67	3.77	3.65	2.25	2.06	1.01	.80	3.30	1.55
CAL YR 1990	TOTAL	775686	MEAN	2125	MAX	26300	MIN	96	CFSM	.80	IN	10.89
WTR YR 1991	TOTAL	1725280	MEAN	4727	MAX	26300	MIN	96	CFSM	1.78	IN	24.22

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.--

REMARKS.--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Present data above the $\mu\text{g/L}$ level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey will begin using new trace-element protocols in the near future.

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 1990 TO SEPTEMBER 1991

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
OCT 22...	1200	17500	47	50	6.2	6.3	20.0	6.0	66	8	7
JAN 28...	1400	7580	51	51	6.7	6.9	8.0	10.4	88	9	7
APR 23...	1200	6430	42	58	6.9	7.1	18.0	7.7	81	17	14
MAY 21...	1300	5460	58	60	7.0	7.0	22.5	6.3	72	25	18
JUL 09...	1300	1060	87	85	7.3	7.4	28.0	5.5	71	32	27
SEP 03...	1300	11100	52	49	6.8	6.8	25.0	6.0	73	17	14

DATE	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L)	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)	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 22...	7.6	14	230	390	16	5.0	0.90	2.2	20	0.2	2.3
JAN 28...	9.7	6.0	200	210	15	4.3	0.96	3.5	32	0.4	1.4
APR 23...	16	6.0	61	36	20	6.0	1.2	3.2	24	0.3	1.6
MAY 21...	20	4.1	140	280	22	6.7	1.3	3.2	23	0.3	1.3
JUL 09...	29	6.5	26	330	21	6.0	1.5	4.9	31	0.5	1.6
SEP 03...	14	6.0	--	--	18	5.5	1.1	2.3	19	0.2	1.9

OGEECHEE RIVER BASIN

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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)
OCT 22...	6.8	3.3	<0.10	6.9	24	32	1130	0.03
JAN 28...	3.2	7.1	<0.10	8.1	42	34	860	0.06
APR 23...	1.3	4.9	<0.10	6.9	58	34	1010	0.08
MAY 21...	1.2	5.4	0.20	8.0	64	42	943	0.09
JUL 09...	1.8	6.5	0.20	11	61	51	175	0.08
SEP 03...	--	--	<0.10	8.0	41	34	1230	0.06

DATE	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, NITRITE 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 22...	<0.010	<0.100	<0.100	0.040	0.020	0.040	0.86	0.90	0.060	0.060	0.050
JAN 28...	<0.010	<0.100	<0.100	0.040	<0.010	0.040	0.46	0.50	0.040	0.030	0.020
APR 23...	0.010	0.130	<0.050	0.040	0.010	0.040	0.76	0.80	0.080	0.050	0.030
MAY 21...	<0.010	0.150	0.180	0.030	0.010	0.110	0.67	0.70	0.100	0.060	0.020
JUL 09...	<0.010	0.280	0.280	0.060	0.010	0.060	0.64	0.70	0.080	0.060	0.060
SEP 03...	<0.010	0.061	0.074	0.060	<0.010	0.060	0.64	0.70	0.090	0.060	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 22...	--	<1	30	<0.5	1.0	3	<3	--	610	8
JAN 28...	10	<1	17	<0.5	<1.0	3	<3	1	670	<1
MAY 21...	--	<1	22	<0.5	<1.0	<1	<3	<1	1300	<1
SEP 03...	100	<1	24	<0.5	<1.0	<1	<3	<1	980	<1

OGEECHEE RIVER BASIN

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 22...	<4	72	<0.1	<10	3	<1	<1.0	18	<6	18
JAN 28...	<4	23	<0.1	<10	1	<1	<1.0	16	<6	<3
MAY 21...	<4	38	<0.1	<10	1	<1	<1.0	28	<6	12
SEP 03...	<4	51	0.3	<10	<1	<1	<1.0	22	<6	8

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 22...	1205	17600	20.0	16	760	82
JAN 28...	1405	7680	8.0	11	228	79
APR 23...	1205	6430	18.0	10	174	87
MAY 21...	1305	5460	22.5	9	133	85
JUL 09...	1305	1060	28.0	7	20	100
SEP 03...	1305	11100	25.0	7	210	95

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.--11 years, 185 ft³/s, 10.83 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,620 ft³/s, Jan. 9, 1990, gage height, 12.91 ft; zero flow was observed Aug. 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)
Jan. 21	2400	1,440	9.59	May 23	2200	1,780	10.08
Feb. 1	1100	3,100	11.34	June 2	1000	*5,400	*12.79
Mar. 5	1100	4,250	12.14	July 28	0600	1,080	8.80
May 1	0300	1,670	9.93	Aug. 3	0700	3,710	11.60
May 17	0200	1,480	9.65	Aug. 27	2300	4,980	12.38

Minimum daily discharge, 0.46 ft³/s, Oct. 3.

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	.47	5.5	14	73	3070	117	296	1590	1660	17	2470	975
2	.48	4.7	16	110	2650	206	442	1580	5110	21	3560	755
3	.46	4.2	26	158	1890	712	480	1430	3960	19	3630	554
4	.50	4.2	29	191	1370	2110	378	1040	2750	16	2950	381
5	.50	3.9	24	187	1060	4020	263	744	1810	17	1990	260
6	.48	3.7	26	160	847	3100	338	643	1220	24	1350	181
7	.49	3.3	28	135	678	1960	459	521	827	23	920	128
8	.48	3.2	41	120	594	1380	502	474	522	24	542	108
9	.48	6.3	49	110	561	1050	522	407	334	20	302	111
10	6.6	64	40	101	560	806	477	310	241	19	202	110
11	37	104	33	128	492	619	465	261	181	22	179	118
12	84	128	31	223	408	465	450	245	136	61	217	105
13	60	116	29	464	336	358	403	274	106	39	221	81
14	59	91	27	634	280	292	333	291	90	22	292	62
15	49	72	25	465	244	263	279	478	174	17	300	47
16	23	57	22	334	211	253	246	1130	230	61	298	35
17	12	43	21	270	184	241	250	1400	154	256	550	27
18	7.6	33	20	243	167	239	245	1250	123	323	474	22
19	5.9	25	41	242	155	237	229	999	127	598	291	17
20	4.7	20	107	620	147	237	226	805	223	625	186	14
21	3.9	16	204	1150	143	227	290	711	308	639	126	12
22	14	14	292	1350	138	208	506	1180	183	501	97	17
23	27	13	285	1060	135	186	527	1670	114	339	82	47
24	33	12	216	907	132	165	492	1730	79	245	99	79
25	37	11	164	947	131	146	424	1460	58	223	93	61
26	28	10	127	1160	139	130	339	1110	46	230	430	52
27	18	9.5	104	1250	139	109	266	813	37	591	2720	48
28	13	13	91	1220	127	96	449	552	30	1020	4130	38
29	9.7	17	79	1220	---	91	1050	444	23	710	2540	32
30	7.6	16	74	1650	---	132	1490	541	19	751	1730	28
31	6.4	---	72	2640	---	183	---	797	---	1050	1270	---
TOTAL	550.74	923.5	2357	19522	16988	20338	13116	26880	20875	8523	34241	4505
MEAN	17.8	30.8	76.0	630	607	656	437	867	696	275	1105	150
MAX	84	128	292	2640	3070	4020	1490	1730	5110	1050	4130	975
MIN	.46	3.2	14	73	127	91	226	245	19	16	82	12
CFSM	.08	.13	.33	2.72	2.62	2.83	1.88	3.74	3.00	1.19	4.76	.65
IN.	.09	.15	.38	3.13	2.72	3.26	2.10	4.31	3.35	1.37	5.49	.72
CAL YR 1990	TOTAL	53565.71	MEAN	147	MAX	4910	MIN	.23	CFSM	.63	IN	8.59
WTR YR 1991	TOTAL	168819.24	MEAN	463	MAX	5110	MIN	.46	CFSM	2.00	IN	27.07

OGEECHEE RIVER BASIN

02203000 CANOOCHEE RIVER NEAR CLAXTON, GA.

LOCATION.--Lat 32°11'05", long 81°53'20", Evans County, Hydrologic Unit 03060203, 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.--54 years, 470 ft³/s, 11.50 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 and 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)
Feb. 3	1700	5,310	13.12	Aug. 4	0500	4,820	12.85
Mar. 7	0800	6,100	13.52	Aug. 27	2300	6,990	13.96
May 2	0100	1,890	9.95	Aug. 30	1800	*7,580	*14.28
June 2	2100	3,060	11.51				

Minimum daily discharge, 2.0 ft³/s, Oct. 1, 2, and 7.

OGEECHEE RIVER BASIN

02203000 CANOOCHEE RIVER NEAR CLAXTON, 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	2.0	473	124	308	4750	552	1220	1620	2130	116	1940	3830
2	2.0	364	122	396	4800	714	1300	1730	2830	83	2750	2540
3	2.1	288	128	436	5200	1480	1040	1630	2660	165	3840	1810
4	2.2	224	135	463	4510	3790	884	1780	1920	265	4630	1410
5	2.4	183	129	470	3210	5740	986	1610	1430	173	4130	1120
6	2.2	158	132	460	2410	5640	1040	1450	961	113	3600	906
7	2.0	140	153	446	1960	5940	934	1310	656	198	2710	767
8	2.4	129	165	429	1680	4700	835	1220	475	308	1970	672
9	3.7	129	203	427	1550	3250	735	1100	352	403	1460	538
10	23	281	203	438	1550	2350	623	937	263	328	1110	480
11	61	449	198	534	1490	1800	679	816	194	230	833	447
12	118	589	206	732	1380	1460	771	798	151	226	656	395
13	164	674	212	871	1240	1260	757	746	124	217	564	326
14	193	670	235	1000	1150	1130	692	874	106	226	502	270
15	371	665	226	1080	1070	1000	576	895	137	182	670	229
16	383	582	199	1080	975	988	509	809	243	334	978	196
17	322	539	183	1040	874	1190	447	737	364	600	1510	174
18	559	523	177	1040	785	1400	410	733	448	917	1580	154
19	711	449	205	1130	726	1420	413	793	436	1270	1400	137
20	613	371	317	1400	706	1330	520	730	596	1460	1150	157
21	415	312	524	1690	699	1200	639	615	844	1360	952	151
22	284	261	660	2120	670	1090	673	699	935	1030	768	128
23	236	218	750	2070	644	939	773	827	617	735	774	115
24	248	206	703	1990	630	829	838	903	407	550	1800	107
25	334	192	626	2170	629	799	814	879	312	934	2380	101
26	423	177	579	2540	619	728	849	722	255	1080	3770	113
27	526	165	508	2710	584	618	845	639	226	922	6110	127
28	650	150	426	2490	565	556	870	865	175	1110	6190	142
29	673	136	374	2390	---	539	941	1430	220	1310	4570	177
30	645	129	356	3020	---	863	1050	1930	178	1590	6990	167
31	585	---	326	4100	---	1060	---	1820	---	1750	6340	---
TOTAL	8558.0	9826	9484	41470	47056	56355	23663	33647	20645	20185	78627	17886
MEAN	276	328	306	1338	1681	1818	789	1085	688	651	2536	596
MAX	711	674	750	4100	5200	5940	1300	1930	2830	1750	6990	3830
MIN	2.0	129	122	308	565	539	410	615	106	83	502	101
CFSM	.50	.59	.55	2.41	3.03	3.28	1.42	1.96	1.24	1.17	4.57	1.07
IN.	.57	.66	.64	2.78	3.15	3.78	1.59	2.26	1.38	1.35	5.27	1.20
CAL YR 1990	TOTAL	139172.81	MEAN	381	MAX	7470	MIN	.75	CFSM	.69	IN	9.33
WTR YR 1991	TOTAL	367402.00	MEAN	1007	MAX	6990	MIN	2.0	CFSM	1.81	IN	24.63

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 1990 TO SEPTEMBER 1991

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 16...	1025	394	112	112	--	6.5	20.0	26.0	6.3	69
NOV 13...	1105	672	62	62	5.2	5.2	13.0	21.0	5.4	51
DEC 13...	1105	208	52	54	5.4	5.4	7.5	20.5	7.3	60
JAN 22...	1125	2140	45	46	4.9	5.1	7.5	8.5	6.2	51
FEB 12...	1125	1390	42	42	5.3	5.4	9.5	19.0	6.6	57
MAR 14...	0910	1140	49	52	5.4	5.2	12.0	16.0	6.0	56
APR 02...	1445	1310	84	129	6.1	6.1	14.0	28.5	5.1	49
MAY 14...	1010	880	54	51	5.8	5.8	22.0	29.0	4.1	47
JUN 13...	0520	130	47	47	5.6	5.8	23.0	24.0	3.9	45
AUG 01...	0535	1840	54	53	6.0	5.9	25.0	25.0	4.5	55
29...	0605	4550	32	31	5.3	5.2	25.0	24.5	5.0	60
SEP 19...	1445	134	39	42	5.6	5.6	27.5	32.0	5.1	65

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 16...	130	4.0	1.6	2600	11	8	0.070	<0.030	0.100	26
NOV 13...	140	4.0	1.6	410	2	5	0.050	0.040	0.100	28
DEC 13...	100	2.0	1.2	700	2	1	<0.020	<0.030	0.120	18
JAN 22...	120	7.0	0.6	1400	2	3	0.030	<0.030	0.060	19
FEB 12...	140	5.0	1.6	60	5	2	0.040	0.030	0.040	17
MAR 14...	130	5.0	0.7	170	3	4	0.050	<0.030	0.040	15
APR 02...	120	8.0	1.6	230	9	3	0.120	0.110	0.120	21
MAY 14...	210	15	2.0	2300	8	13	0.220	0.260	0.360	25
JUN 13...	130	7.0	0.6	40	7	5	0.240	0.060	0.150	19
AUG 01...	240	7.0	1.1	700	7	5	0.100	0.230	0.180	21
29...	120	9.0	1.2	490	2	7	0.080	<0.030	0.130	23
SEP 19...	360	6.0	1.1	50	5	6	0.130	0.060	0.210	23

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 Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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									
18...	0610	97	97	5.5	5.6	22.0	19.5	5.6	64
NOV									
15...	0835	105	96	5.5	5.6	12.5	13.0	7.9	73
DEC									
13...	0830	86	87	6.3	6.3	8.5	10.0	8.0	68
JAN									
24...	0815	53	55	5.0	5.2	7.0	7.5	9.7	79
FEB									
14...	0710	43	43	5.0	4.9	11.0	16.5	7.1	64
MAR									
14...	0610	37	37	5.0	5.2	12.0	13.0	6.3	59
APR									
02...	0725	47	48	5.6	5.6	15.0	10.0	6.3	62
MAY									
16...	0835	40	39	5.1	5.2	25.0	29.5	5.2	63
JUN									
13...	0910	43	43	5.2	5.3	23.5	33.0	4.4	52
AUG									
01...	0735	34	33	4.9	4.8	25.0	24.0	5.3	64
29...	1450	40	39	5.2	5.2	26.0	30.5	5.2	64
SEP									
19...	0650	56	53	5.8	5.7	27.0	28.0	4.4	55

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...	120	2.0	1.2	230	4	1	0.090	<0.030	0.150	21
NOV										
15...	150	4.0	1.6	100	6	4	0.050	0.040	0.060	25
DEC										
13...	150	2.0	1.4	80	7	1	0.140	0.030	0.150	22
JAN										
24...	140	7.0	1.2	310	3	6	<0.020	<0.030	0.080	26
FEB										
14...	160	5.0	1.3	50	2	4	<0.020	<0.030	0.060	19
MAR										
14...	140	5.0	1.2	130	3	4	<0.020	<0.030	0.050	18
APR										
02...	150	6.0	1.1	110	4	3	0.080	0.070	0.190	25
MAY										
16...	280	5.0	1.0	20	3	4	0.060	0.040	0.150	28
JUN										
13...	240	6.0	0.8	20	4	5	0.100	0.040	0.190	27
AUG										
01...	200	10	1.0	790	2	12	<0.020	<0.030	0.140	30
29...	160	7.0	1.0	330	2	7	0.070	0.040	0.060	23
SEP										
19...	160	7.0	0.9	80	5	7	0.190	<0.030	0.240	21

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 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 1990 TO SEPTEMBER 1991

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 18...	0955	38100	47900	7.5	7.5	25.5	26.5	5.1	71
NOV 15...	0725	36400	43000	7.6	7.6	16.0	12.5	6.1	70
DEC 13...	0640	35000	42500	7.6	7.5	11.5	9.5	8.3	87
JAN 24...	1515	30400	39800	7.8	7.7	9.5	8.0	7.1	70
FEB 14...	0850	25300	29700	7.4	7.5	12.0	18.0	7.2	74
MAR 14...	0740	26100	30300	7.2	7.5	13.0	14.0	6.3	66
APR 02...	1035	26300	27900	7.4	7.4	15.5	24.0	5.6	61
MAY 16...	1045	25800	29700	7.3	7.3	28.0	32.0	5.1	71
JUN 13...	1055	23800	26600	7.3	7.3	27.5	31.0	4.6	63
AUG 01...	1330	16700	25100	7.3	7.3	29.0	32.0	4.8	66
29...	1300	19500	23800	7.2	7.3	28.5	31.5	4.6	63
SEP 19...	0540	25700	30100	7.3	7.3	31.0	25.0	5.5	80

NORTH NEWPORT RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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- 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 18...	55	20	1.1	<20	123	20000	32	<0.020	0.090	0.160	6.9
NOV 15...	25	19	0.8	<20	110	17000	40	<0.020	0.080	0.110	9.8
DEC 13...	10	9.0	0.8	20	109	18000	15	<0.020	0.050	0.130	7.3
JAN 24...	10	10	0.4	<20	103	17000	23	<0.020	0.040	0.110	6.2
FEB 14...	40	12	1.1	20	80	12000	25	<0.020	<0.030	0.070	26
MAR 14...	45	12	0.7	<20	80	12000	44	<0.020	<0.030	0.050	7.9
APR 02...	40	20	1.1	<20	78	9900	41	<0.020	0.040	0.140	12
MAY 16...	50	15	1.3	<20	81	11000	43	<0.020	0.070	0.100	10
JUN 13...	110	18	1.2	<20	77	10000	30	<0.020	<0.030	0.100	10
AUG 01...	70	10	0.6	<20	80	9600	20	--	0.100	0.100	11
29...	70	7.0	1.3	<20	73	8400	12	<0.020	0.030	0.060	15
SEP 19...	40	3.0	0.9	<20	86	11000	12	<0.020	<0.030	0.210	11

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 analyses with the analyzing code 80020 are by the U.S. Geological Survey. Laboratory chemical analyses with the analyzing 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. Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Present data above the $\mu\text{g/L}$ level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey will begin using new trace-element protocols in the near future.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 04...	0930	81341	9.0	195	185	7.4	7.1	21.0	25.0	4.4	51
NOV 06...	1330	81341	17	199	193	7.0	7.0	3.0	21.0	7.5	73
DEC 06...	1045	81341	29	182	186	7.4	7.0	6.0	10.0	10.0	82
JAN 10...	1045	81341	20	190	187	6.8	7.0	10.0	8.0	10.0	90
FEB 07...	1030	81341	29	185	196	7.1	6.9	12.0	16.0	8.2	78
MAR 07...	1030	81341	46	190	184	7.1	6.8	14.0	3.0	9.3	93
APR 04...	0945	81341	40	200	198	7.1	7.0	13.5	18.0	9.6	93
MAY 09...	0900	81341	72	179	168	7.1	7.1	18.0	18.0	6.6	71
JUN 06...	0830	81341	32	200	201	7.4	7.6	20.0	22.0	7.8	88
JUL 11...	0750	81341	90	110	104	6.8	6.8	23.0	25.0	6.0	72
AUG 08...	0745	81341	42	131	128	7.0	6.8	26.0	27.0	5.0	63
SEP 05...	0745	81341	45	205	201	7.2	7.0	21.0	21.0	5.2	60
24...	1000	81341	14	198	--	7.1	--	19.5	24.0	7.4	83

ALTAMAHA RIVER BASIN

02203800 SOUTH RIVER AT ATLANTA, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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	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...	81341	7.0	3.3	4900	47	5	0.330	0.410	0.100	4.1
NOV 06...	81341	9.0	4.3	4100	39	6	0.550	0.350	0.090	5.9
DEC 06...	81341	15	3.2	13000	40	10	0.590	0.510	0.130	9.7
JAN 10...	81341	10	1.6	4900	43	5	0.890	0.540	0.130	4.5
FEB 07...	81341	10	1.8	350	36	5	0.920	0.530	0.100	3.7
MAR 07...	81341	15	1.5	3500	40	15	0.950	0.330	0.060	3.6
APR 04...	81341	11	1.5	35000	41	8	0.920	0.480	0.100	2.8
MAY 09...	81341	11	>7.6	1700	36	13	0.660	0.550	0.100	9.7
JUN 06...	81341	13	1.4	13000	49	10	1.18	0.500	0.170	7.3
JUL 11...	81341	74	6.6	160000	24	68	0.520	0.080	0.110	9.0
AUG 08...	81341	39	3.8	24000	29	42	0.760	0.190	0.100	8.5
SEP 05...	81341	9.0	12	13000	39	8	0.420	1.06	0.070	9.4
24...		--	--	--	--	--	--	--	--	--

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	ANTI- MONY, TOTAL (UG/L AS SB)	ANTI- MONY, DIS- SOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
SEP 24...	1000	80020	<1	<1	<1	<1	<10	<10	<1	<1.0	<1

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
SEP 24...	1000	80020	<1	<1	1	4	2	<1	<0.10	<0.1	3

ALTAMAHA RIVER BASIN

02203800 SOUTH RIVER AT ATLANTA, GA.—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	THAL- LIUM, DIS- SOLVED (UG/L AS TL)
SEP 24...	1000	80020	3	<1	<1	<1	<1.0	100	70	<0.010	<1

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DI- CHLORO- BROMO- METHANE TOTAL (UG/L)	CARBON- TETRA- CHLO- RIDE TOTAL (UG/L)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L)	BROMO- FORM TOTAL (UG/L)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L)	CHLORO- FORM TOTAL (UG/L)	TOLUENE TOTAL (UG/L)	BENZENE TOTAL (UG/L)	CHLORO- BENZENE TOTAL (UG/L)
SEP 24...	1000	80020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	CHLORO- ETHANE TOTAL (UG/L)	ETHYL- BENZENE TOTAL (UG/L)	METHYL- BROMIDE TOTAL (UG/L)	METHYL- CHLO- RIDE TOTAL (UG/L)	METHYL- ENE CHLO- RIDE TOTAL (UG/L)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L)
SEP 24...	1000	80020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L)	1,1,2,2 TETRA- CHLORO- ETHANE TOTAL (UG/L)	1,2-DI- CHLORO- BENZENE TOTAL (UG/L)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L)	1,2- TRANS DI CHLORO- ETHENE TOTAL (UG/L)	1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	1,3-DI- CHLORO- BENZENE TOTAL (UG/L)	1,4-DI- CHLORO- BENZENE TOTAL (UG/L)
SEP 24...	1000	80020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	2- CHLORO- ETHYL- VINYL- ETHER TOTAL (UG/L)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	VINYL CHLO- RIDE TOTAL (UG/L)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L)	STYRENE TOTAL (UG/L)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L)	XYLENE TOTAL WATER WHOLE TOT REC TOTAL (UG/L)
SEP 24...	1000	80020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2

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 Gage Height, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 04...	0900	1.00	288	282	7.7	7.6	21.5	25.0	7.3	84
NOV 08...	0930	1.50	286	282	7.5	7.5	13.5	14.5	8.9	87
DEC 06...	1015	1.60	210	210	--	7.3	8.0	6.0	10.8	93
JAN 10...	1015	1.50	242	246	7.1	7.4	11.0	9.0	10.4	95
FEB 07...	1000	1.90	205	224	7.5	7.3	13.0	13.0	9.8	95
MAR 07...	1000	1.80	205	204	6.9	7.3	14.0	15.0	11.0	110
APR 04...	0915	1.73	210	205	7.4	7.3	14.0	18.5	10.2	100
MAY 09...	0830	1.82	188	184	7.4	7.5	18.0	18.5	8.4	90
JUN 06...	0800	1.70	235	227	7.8	7.4	21.0	22.0	7.9	90
JUL 11...	0705	2.64	130	124	6.8	6.7	23.5	23.0	5.8	70
AUG 08...	0715	1.95	151	150	7.2	7.0	26.0	24.5	5.9	74
SEP 05...	0705	1.63	235	230	7.3	7.3	22.0	19.0	7.6	89

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...	6.0	0.7	940	59	5	4.41	0.050	0.270	5.5
NOV 08...	4.0	1.3	1700	55	2	4.52	0.150	0.310	3.9
DEC 06...	14	1.6	1300	46	7	2.72	0.140	0.320	7.0
JAN 10...	7.0	0.7	340	51	3	4.00	<0.030	0.460	3.8
FEB 07...	8.0	0.8	120	48	4	3.80	0.050	0.410	5.7
MAR 07...	11	0.3	490	45	7	3.15	<0.030	0.220	3.6
APR 04...	9.0	0.4	210	45	4	2.45	0.090	0.190	2.0
MAY 09...	16	0.7	1700	45	9	1.99	0.160	0.160	26
JUN 06...	14	0.6	2300	50	11	3.22	0.030	0.140	6.1
JUL 11...	350	12	>240000	25	569	1.35	0.110	0.380	20
AUG 08...	75	3.4	35000	31	82	2.30	0.060	0.140	5.8
SEP 05...	12	0.5	330	44	9	3.70	0.170	0.180	2.8

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.--Estimated daily discharges: Oct. 14 to Nov. 13 and May 27 to June 10. Records good, except those for the periods of estimated daily discharges, which are fair. Streamflow includes some water diverted from the Chattahoochee River by DeKalb County and City of Atlanta for municipal supply.

AVERAGE DISCHARGE.--8 years, 290 ft³/s, 21.64 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)
Jan. 30	2130	4,000	8.85	May 6	0315	4,110	8.92
Mar. 2	0830	4,070	8.89	Sept. 2	0730	4,350	9.07
Mar. 30	0400	*5,850	*9.94				

Minimum daily discharge, 110 ft³/s, Oct. 3, 9, 21, and Nov. 8.

ALTAMAHA RIVER BASIN

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	140	125	205	386	232	344	229	501	204	197	176
2	111	130	126	174	284	2430	303	177	555	218	209	2040
3	110	150	577	173	245	804	272	148	257	374	170	322
4	137	160	1010	166	227	554	240	919	211	338	161	222
5	208	180	224	155	212	351	262	1740	250	659	153	208
6	121	150	179	155	211	298	263	1890	190	248	155	179
7	113	130	162	158	212	269	216	364	175	200	157	183
8	111	110	184	194	191	241	352	235	169	219	263	168
9	110	180	153	182	184	232	312	320	165	239	170	159
10	155	380	145	158	180	213	757	274	159	197	288	150
11	227	260	139	1170	176	205	272	236	155	576	359	147
12	569	150	141	431	176	201	272	539	152	215	532	142
13	192	130	136	248	174	518	350	221	168	179	394	139
14	160	132	135	209	318	299	245	181	235	162	445	137
15	150	138	136	212	199	229	215	149	298	166	455	144
16	160	129	143	393	166	203	211	145	203	311	216	135
17	150	127	139	221	171	200	200	217	217	1150	186	141
18	240	129	134	190	207	247	192	461	348	1620	314	153
19	160	127	217	412	173	207	805	1340	681	586	278	155
20	130	123	284	576	670	192	301	260	485	958	179	204
21	110	123	379	260	429	188	220	187	335	276	160	134
22	180	124	186	214	1170	187	203	165	657	299	154	128
23	730	123	194	205	1160	190	209	153	397	206	149	128
24	360	123	707	447	414	198	201	136	543	230	145	128
25	220	121	221	462	304	181	183	127	637	312	168	867
26	180	121	181	250	341	184	175	122	1790	377	545	297
27	160	127	177	220	246	175	421	641	776	490	223	180
28	160	132	184	205	221	608	677	1090	402	294	172	164
29	150	152	163	206	---	2560	486	401	338	210	172	148
30	140	123	163	1760	---	2790	784	318	233	204	814	136
31	150	---	405	1100	---	491	---	225	---	260	217	---
TOTAL	5969	4424	7449	11111	9047	15877	9943	13610	11682	11977	8200	7614
MEAN	193	147	240	358	323	512	331	439	389	386	265	254
MAX	730	380	1010	1760	1170	2790	805	1890	1790	1620	814	2040
MIN	110	110	125	155	166	175	175	122	152	162	145	128
CFSM	1.06	.81	1.32	1.97	1.78	2.81	1.82	2.41	2.14	2.12	1.45	1.39
IN.	1.22	.90	1.52	2.27	1.85	3.25	2.03	2.78	2.39	2.45	1.68	1.56
CAL YR 1990	TOTAL 143070		MEAN 392		MAX 9870		MIN 91		CFSM 2.15 IN. 29.24			
WTR YR 1991	TOTAL 116903		MEAN 320		MAX 2790		MIN 110		CFSM 1.76 IN. 23.89			

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, 28.5°C July 13, 14, August 5, 6, 7; minimum, 4.0°C Feb. 16.

DISSOLVED OXYGEN: Maximum recorded, 11.6 mg/L Feb. 16; minimum recorded, 3.3 mg/L Mar. 30.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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	105	255	250	7.9	7.5	21.0	25.0	7.0	80
NOV										
08...	1010	128	250	250	7.5	7.4	12.5	15.0	9.2	82
DEC										
06...	0945	187	185	188	7.6	7.3	8.0	2.0	10.4	89
JAN										
10...	0945	153	210	211	7.1	7.3	11.0	9.0	10.2	90
FEB										
07...	0915	220	175	190	7.3	7.2	13.0	13.0	9.3	90
MAR										
07...	0930	274	175	176	7.3	7.1	14.0	13.5	9.9	99
APR										
04...	0845	249	180	175	7.3	7.3	14.0	17.0	9.0	96
MAY										
09...	0800	216	160	153	7.3	7.4	18.0	18.5	7.9	85
JUN										
06...	0730	195	190	185	7.6	7.5	21.0	20.5	7.2	82
JUL										
11...	0640	954	113	105	7.0	6.9	24.0	21.5	6.7	90
AUG										
08...	0700	342	211	212	7.4	7.3	25.5	24.0	6.7	77
SEP										
05...	0640	225	181	180	7.2	7.2	22.0	18.0	7.2	84

ALTAMAHA RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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)
OCT 04...	9.0	0.4	1300	54	10	3.61	0.030	0.190	1.1
NOV 08...	7.0	0.9	1300	50	4	3.49	0.090	0.230	4.8
DEC 06...	19	1.7	1300	40	10	1.97	0.030	0.230	10
JAN 10...	9.0	1.1	230	46	5	2.88	0.050	0.320	4.6
FEB 07...	13	0.8	210	40	9	2.30	0.050	0.360	3.1
MAR 07...	17	0.5	490	39	14	2.15	0.030	0.170	2.9
APR 04...	17	0.5	1300	40	13	2.34	0.030	0.140	2.0
MAY 09...	24	0.7	1100	36	20	1.46	0.070	0.130	2.7
JUN 06...	25	0.8	1300	48	22	1.85	0.050	0.150	--
JUL 11...	440	3.6	>240000	21	678	1.62	0.070	0.200	15
AUG 08...	46	1.4	7000	45	75	2.85	<0.030	0.160	4.6
SEP 05...	22	0.5	1300	39	23	2.40	0.090	0.120	2.8

ALTAMAHA RIVER BASIN

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

TEMPERATURE, WATER (DEG. 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	23.0	20.0	15.5	12.5	11.0	8.0	11.5	10.0	9.5	8.0	---	---
2	23.0	20.0	15.5	12.5	14.0	10.0	11.0	9.5	9.5	7.0	---	---
3	23.0	20.5	16.0	13.0	15.5	13.0	11.0	9.5	10.5	8.5	---	---
4	22.5	21.5	17.0	14.0	15.5	11.5	12.0	10.5	12.0	9.0	---	---
5	22.0	20.0	17.5	16.0	11.0	9.0	12.0	11.5	12.5	10.5	---	---
6	21.5	18.5	16.5	14.5	9.5	7.5	12.5	11.5	13.5	12.0	---	---
7	22.0	19.0	15.5	13.0	9.5	8.0	14.0	12.0	13.5	12.5	---	---
8	23.0	20.5	14.5	12.5	11.0	9.5	13.5	11.0	13.0	11.0	---	---
9	23.0	20.5	14.0	11.5	10.5	8.5	11.0	10.0	12.5	10.0	---	---
10	22.5	21.0	11.5	10.5	11.0	8.0	11.0	10.5	12.0	9.5	---	---
11	21.0	20.5	13.0	10.5	11.0	8.5	10.5	9.0	12.0	10.0	---	---
12	20.5	20.0	14.0	10.5	11.5	9.0	10.0	9.0	11.5	9.0	---	---
13	22.0	20.0	14.0	11.5	12.0	9.0	9.5	8.0	11.0	9.5	---	---
14	21.5	19.5	14.0	11.5	12.0	11.5	8.5	6.5	12.5	11.0	---	---
15	20.5	18.0	14.0	11.5	12.0	11.0	8.5	6.5	11.0	6.0	14.5	11.0
16	20.5	17.5	14.5	11.5	13.5	11.5	10.5	8.5	6.5	4.0	14.0	12.0
17	21.0	18.5	14.0	12.5	14.0	12.5	11.0	10.0	6.0	4.5	13.0	12.0
18	21.5	19.5	13.0	11.0	16.0	13.5	10.0	8.5	8.5	5.5	15.0	11.5
19	19.5	17.5	12.5	10.0	15.5	14.0	9.0	8.5	12.0	8.5	16.0	12.5
20	17.5	15.0	13.5	10.5	13.5	12.0	9.5	9.0	13.5	11.5	16.5	12.5
21	18.5	15.5	14.0	11.5	12.0	11.5	9.5	8.0	14.5	13.0	16.5	13.5
22	19.5	18.0	15.0	12.0	13.5	12.0	7.5	6.0	14.0	13.0	19.0	15.5
23	19.5	18.0	15.5	13.5	16.5	13.5	6.5	4.5	13.0	12.5	19.0	17.0
24	18.5	17.0	14.5	12.5	16.0	10.5	6.5	5.5	12.5	11.5	19.0	16.0
25	17.0	14.5	14.0	11.0	10.0	7.5	7.0	5.5	12.5	11.5	19.0	15.0
26	14.5	13.0	14.5	11.0	8.5	7.0	8.0	5.5	---	---	19.5	15.0
27	14.5	12.0	15.5	13.0	8.0	7.5	8.5	6.5	---	---	18.0	16.0
28	15.0	12.0	17.5	14.5	8.5	7.5	10.5	7.5	---	---	17.5	16.5
29	15.0	12.0	16.5	13.5	10.5	8.5	11.5	10.0	---	---	16.5	15.5
30	14.5	12.0	13.0	10.5	13.5	10.5	12.5	11.0	---	---	15.5	14.0
31	15.0	12.0	---	---	13.5	12.0	12.0	10.0	---	---	14.5	12.5
MONTH	23.0	12.0	17.5	10.0	16.5	7.0	14.0	4.5	14.5	4.0	19.5	11.0

ALTAMAHA RIVER BASIN

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

OXYGEN, DISSOLVED (MG/L), 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	8.4	7.5	9.5	8.9	11.2	9.8	10.2	9.4	10.8	10.1	---	---
2	8.4	7.3	9.5	8.8	10.6	9.4	10.4	10.1	10.9	10.6	---	---
3	8.4	7.3	9.4	8.7	9.3	6.9	10.4	10.2	10.6	10.3	---	---
4	7.5	7.1	9.1	8.4	9.4	7.3	10.3	9.7	10.3	9.9	---	---
5	7.3	6.8	8.5	8.0	10.4	9.5	9.8	9.6	9.9	9.5	---	---
6	8.1	6.8	8.8	8.0	10.7	10.3	9.9	9.6	9.5	9.2	---	---
7	8.1	7.4	9.3	8.6	10.4	10.2	9.7	9.1	9.2	9.1	---	---
8	7.8	7.2	9.5	8.9	10.4	10.1	10.1	9.2	9.6	9.1	---	---
9	7.7	7.1	9.6	9.0	10.5	10.0	10.4	10.2	9.9	9.5	---	---
10	7.5	7.1	9.5	8.8	10.6	10.1	10.3	10.1	9.9	9.5	---	---
11	7.1	4.7	9.6	9.3	10.6	10.1	10.6	10.3	10.0	9.6	---	---
12	7.6	6.5	9.7	9.2	10.5	9.8	10.4	10.2	10.5	9.9	---	---
13	7.4	7.2	9.5	9.1	10.3	9.6	10.8	10.5	10.2	9.8	---	---
14	7.7	7.3	9.7	8.6	9.7	9.6	11.4	10.9	9.9	9.4	---	---
15	8.1	7.5	9.8	9.2	10.0	9.6	11.2	10.9	10.6	9.4	9.5	8.8
16	8.3	7.7	9.8	8.5	9.9	9.3	10.8	10.0	11.6	10.6	9.5	9.2
17	8.1	7.6	9.5	9.0	9.5	9.1	10.3	9.9	11.5	11.0	9.3	9.0
18	7.8	6.8	9.8	9.0	9.2	8.6	10.7	10.1	11.2	10.5	9.4	8.7
19	8.1	7.3	10.0	9.3	9.0	8.6	10.5	10.1	10.5	9.7	9.4	8.8
20	8.8	8.1	10.0	9.3	9.6	8.9	10.2	10.0	9.7	5.6	9.5	9.0
21	8.8	8.2	9.9	9.2	9.5	9.1	10.3	10.0	9.2	8.8	9.4	8.5
22	8.1	6.8	9.7	8.8	9.5	9.0	10.9	10.3	9.6	8.7	9.0	8.5
23	7.8	6.8	9.1	8.5	9.1	8.4	11.3	10.9	9.5	6.5	8.8	8.3
24	8.4	7.8	9.7	8.5	9.7	7.6	11.3	10.9	9.9	9.1	9.2	8.5
25	8.8	8.3	10.0	9.0	10.8	9.8	11.2	10.9	9.7	9.6	9.4	8.0
26	9.2	8.8	10.3	9.1	10.9	10.6	11.2	10.7	---	---	9.5	8.6
27	9.6	8.9	9.8	8.7	10.9	10.6	10.7	10.4	---	---	9.2	8.5
28	9.6	8.9	9.2	8.0	10.9	10.7	10.6	9.6	---	---	8.7	7.2
29	9.5	8.9	9.2	8.2	10.7	10.0	9.7	9.3	---	---	8.8	8.0
30	9.6	9.0	10.5	8.8	10.2	9.4	9.6	8.9	---	---	9.2	3.3
31	9.6	9.0	---	---	9.4	8.6	10.1	9.0	---	---	9.6	9.0
MONTH	9.6	4.7	10.5	8.0	11.2	6.9	11.4	8.9	11.6	5.6	9.6	3.3

ALTAMAHA RIVER BASIN

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

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[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 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, INST. CUBIC 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	190	205	202	7.7	7.5	21.0	24.0	7.8	89
NOV 08...	1100	220	199	199	--	7.5	13.0	16.5	8.3	80
DEC 06...	0815	500	100	97	7.2	7.0	8.0	-2.0	10.2	87
JAN 10...	0830	--	155	154	7.1	7.2	10.0	9.0	10.2	91
FEB 07...	0800	450	125	122	7.2	7.1	12.0	13.0	9.6	91
MAR 07...	0750	660	109	107	7.2	6.9	13.0	15.0	10.5	103
APR 04...	0730	660	113	108	7.1	7.1	15.0	13.0	9.6	96
MAY 09...	0630	680	93	84	7.1	7.2	19.0	19.5	7.8	85
JUN 06...	0615	450	120	115	7.4	7.2	23.0	16.5	6.9	82
JUL 11...	0600	450	125	114	7.1	7.1	26.0	21.5	6.4	81
AUG 08...	0615	220	160	154	7.0	7.1	29.0	23.0	5.5	73
SEP 05...	0600	220	108	103	7.1	7.1	23.0	17.0	6.9	82

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...	20	<5	0.5	300	45	14
NOV 08...	13	8	0.9	330	43	8
DEC 06...	50	20	2.4	1300	20	21
JAN 10...	12	8	1.1	330	35	6
FEB 07...	20	8	0.7	140	26	12
MAR 07...	25	--	0.6	790	23	14
APR 04...	21	<5	0.7	220	22	13
MAY 09...	38	8	0.8	330	20	25
JUN 06...	26	12	0.6	1700	26	21
JUL 11...	24	8	0.3	270	27	21
AUG 08...	20	16	0.4	130	32	20
SEP 05...	33	5	0.3	700	23	24

ALTAMAHA RIVER BASIN

02204520 SOUTH RIVER AT SNAPPING SHOALS, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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...	1.86	0.070	0.23	0.30	2.2	0.100	2.3
NOV 08...	1.91	0.040	0.46	0.50	2.4	0.220	4.4
DEC 06...	0.670	<0.030	--	0.20	0.87	0.130	9.0
JAN 10...	1.69	0.040	0.26	0.30	2.0	0.210	3.2
FEB 07...	1.41	0.040	0.36	0.40	1.8	0.200	2.6
MAR 07...	<0.020	<0.030	--	--	--	0.100	3.1
APR 04...	1.11	<0.030	--	0.10	1.2	0.100	4.0
MAY 09...	0.670	0.090	0.11	0.20	0.87	0.110	6.0
JUN 06...	1.01	0.030	0.27	0.30	1.3	0.120	<1.0
JUL 11...	1.26	<0.030	--	0.30	1.6	0.120	5.1
AUG 08...	1.87	0.050	0.25	0.30	2.2	0.090	2.8
SEP 05...	1.16	0.050	0.25	0.30	1.5	0.080	3.2

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, 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: Nov. 6-26, May 30, 31, and Sept. 20-25. Records good, except those for the periods of estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--33 years (1942-1971, 1988-91), 177 ft³/s, 17.94 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)
Mar. 30	0615	*2,980	*10.91	May 5	2015	2,120	8.34

Minimum daily discharge, 71 ft³/s, Oct. 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	113	91	200	376	251	342	282	235	163	146	191
2	75	116	88	148	257	1050	289	219	342	216	145	937
3	74	128	304	139	236	681	259	198	193	181	117	581
4	92	155	591	137	211	495	236	304	194	308	105	196
5	104	190	223	126	195	307	277	823	223	399	103	158
6	81	226	150	122	192	258	246	1670	148	217	97	140
7	75	215	142	135	188	237	226	605	126	174	130	144
8	72	202	155	173	173	214	248	308	113	166	118	126
9	71	317	132	163	162	201	290	332	108	145	126	111
10	91	570	120	153	155	190	271	309	106	129	379	104
11	143	200	114	845	150	180	209	385	104	129	188	100
12	508	150	111	558	146	174	197	891	119	111	313	99
13	280	110	114	265	161	520	246	329	126	101	392	93
14	186	100	110	204	320	338	213	262	129	94	348	93
15	188	100	102	190	200	218	187	226	150	91	373	93
16	182	100	101	300	157	193	170	239	132	150	190	91
17	191	95	101	193	160	189	169	490	116	430	151	91
18	231	95	104	161	199	223	162	276	140	632	403	92
19	189	90	190	241	173	190	834	597	221	607	239	97
20	103	90	262	350	659	172	556	389	350	380	167	90
21	90	85	327	211	587	166	274	274	474	435	139	85
22	233	85	184	174	479	165	209	244	628	204	123	80
23	661	90	200	157	677	169	183	226	266	158	119	75
24	288	90	455	235	367	161	182	212	194	329	111	75
25	175	85	217	279	277	147	158	219	235	909	148	500
26	146	85	163	188	266	141	146	202	672	284	444	292
27	132	87	151	167	240	139	284	312	530	177	369	137
28	124	93	162	159	224	412	651	348	430	221	184	108
29	119	125	142	153	---	1410	497	241	350	165	159	99
30	116	104	135	818	---	2200	538	180	194	143	580	95
31	118	---	283	1250	---	581	---	150	---	174	330	---
TOTAL	5214	4291	5724	8594	7587	11972	8749	11742	7348	8022	6936	5173
MEAN	168	143	185	277	271	386	292	379	245	259	224	172
MAX	661	570	591	1250	677	2200	834	1670	672	909	580	937
MIN	71	85	88	122	146	139	146	150	104	91	97	75
CFSM	1.26	1.07	1.38	2.07	2.02	2.88	2.18	2.83	1.83	1.93	1.67	1.29
IN.	1.45	1.19	1.59	2.39	2.11	3.32	2.43	3.26	2.04	2.23	1.93	1.44

CAL YR 1990	TOTAL 111156	MEAN 305	MAX 8000	MIN 55	CFSM 2.27	IN. 30.86
WTR YR 1991	TOTAL 91352	MEAN 250	MAX 2200	MIN 71	CFSM 1.87	IN. 25.36

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 1990 TO SEPTEMBER 1991

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...	0500	76	205	201	7.2	7.4	20.0	16.5	7.5	85
NOV										
08...	1440	201	171	171	--	7.3	13.0	19.5	9.1	89
DEC										
05...	0600	255	100	98	6.9	6.9	9.0	1.0	10.4	92
JAN										
09...	0600	172	140	140	7.0	7.0	9.0	5.0	10.8	95
FEB										
06...	0600	175	125	124	7.1	7.1	12.0	14.0	10.2	95
MAR										
06...	0600	263	110	108	7.2	6.9	11.5	12.0	10.0	96
APR										
03...	0600	271	115	111	7.1	7.1	14.0	8.0	9.4	93
MAY										
08...	0500	332	95	102	7.1	6.9	18.0	13.5	7.7	83
JUN										
05...	0500	237	108	105	6.9	7.0	23.0	20.5	6.6	80
JUL										
17...	0820	201	120	122	7.1	7.0	23.0	22.0	8.4	101
AUG										
13...	1300	316	86	80	7.2	6.8	23.0	23.0	7.6	91
SEP										
11...	1130	94	138	137	7.3	7.3	22.0	32.0	8.0	94

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...	5.0	0.5	230	53	1.91	<0.030	0.140	2.7
NOV								
08...	6.0	0.8	170	38	1.95	<0.030	0.090	3.2
DEC								
05...	48	2.2	1300	25	0.660	<0.030	0.070	6.4
JAN								
09...	11	1.7	490	34	1.34	0.050	0.090	8.7
FEB								
06...	17	0.8	<20	30	1.29	<0.090	0.090	1.5
MAR								
06...	22	0.9	140	26	1.13	<0.030	0.100	2.9
APR								
03...	28	1.0	330	27	0.560	<0.030	0.110	2.6
MAY								
08...	44	1.1	1300	23	0.780	0.030	0.110	5.9
JUN								
05...	130	2.9	13000	27	1.17	0.090	0.110	6.6
JUL								
17...	31	1.6	4900	30	1.24	0.080	0.080	4.7
AUG								
13...	46	1.1	7900	21	0.680	<0.030	0.090	5.4
SEP								
11...	7.0	0.5	330	35	1.65	<0.030	0.040	2.3

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 1990 TO SEPTEMBER 1991

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...	0745	155	160	152	7.7	7.3	21.0	24.0	7.0	80
NOV 08...	1340	180	127	125	--	7.4	13.5	17.0	9.6	94
DEC 06...	0900	330	93	90	--	7.0	8.0	2.0	10.4	90
JAN 10...	0915	290	120	118	7.0	7.1	10.0	8.0	10.8	97
FEB 07...	0845	400	105	101	7.1	7.0	12.0	11.0	10.2	97
MAR 07...	0830	590	92	89	7.1	6.8	13.0	14.0	10.8	106
APR 04...	0815	420	90	86	7.0	7.0	15.0	15.0	9.7	97
MAY 09...	0715	550	85	78	7.0	7.0	19.0	18.5	8.0	88
JUN 06...	0700	330	98	94	7.4	7.2	22.0	19.0	6.9	81
JUL 17...	0920	370	120	121	7.2	7.1	24.0	24.5	5.8	71
AUG 13...	1415	800	64	59	7.1	6.8	24.0	25.0	6.8	83
SEP 11...	1030	155	125	127	7.2	7.2	23.0	31.0	6.8	81

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...	9.0	0.4	490	42	1.21	0.050	0.080	3.2
NOV 08...	7.0	0.9	140	33	1.05	0.040	0.070	3.6
DEC 06...	28	1.8	310	24	0.610	0.030	0.080	5.3
JAN 10...	10	1.1	20	30	1.11	0.060	0.080	2.2
FEB 07...	15	0.8	130	24	1.04	0.050	0.070	2.8
MAR 07...	22	0.1	50	20	0.860	<0.030	0.070	2.6
APR 04...	24	0.8	490	21	0.890	0.030	0.080	7.8
MAY 09...	39	0.9	220	23	0.640	0.060	0.080	5.7
JUN 06...	44	1.0	7900	23	0.930	0.060	0.060	3.5
JUL 17...	12	1.3	2200	30	1.04	0.060	0.060	3.5
AUG 13...	240	1.9	54000	14	0.760	<0.030	0.090	11
SEP 11...	10	0.4	130	35	0.950	0.070	0.040	2.0

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 1990 TO SEPTEMBER 1991

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...	0630	280	109	111	7.5	7.5	21.0	24.0	7.7	88
NOV 08...	1130	300	118	115	--	7.2	12.0	21.5	9.1	86
DEC 06...	0800	810	75	73	7.4	7.2	8.5	-1.0	10.7	93
JAN 10...	0745	450	100	100	7.1	7.2	10.0	7.0	10.8	96
FEB 07...	0730	630	80	74	7.1	6.8	12.0	13.0	10.2	96
MAR 07...	0730	840	70	68	7.1	6.8	14.0	15.5	10.9	109
APR 04...	0700	780	80	72	6.1	6.4	15.0	12.0	9.9	99
MAY 09...	0600	1400	64	58	6.9	7.0	19.0	19.5	8.3	91
JUN 06...	0550	660	90	83	7.4	7.1	23.0	16.5	7.3	87
JUL 18...	0850	1150	79	76	7.1	7.1	23.0	23.0	8.1	96
AUG 13...	1500	430	87	82	7.4	7.2	24.0	24.5	7.2	87
SEP 11...	0945	300	105	97	7.2	7.2	23.0	30.0	7.0	82

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 04...	13	--	0.4	330	30	12
NOV 08...	8.0	--	0.9	330	29	5
DEC 06...	56	--	1.7	1700	19	34
JAN 10...	14	--	1.9	130	26	11
FEB 07...	20	--	0.8	130	18	18
MAR 07...	27	--	0.1	50	17	25
APR 04...	29	--	0.6	330	11	25
MAY 09...	44	--	1.0	940	18	41
JUN 06...	37	--	0.6	790	23	34
JUL 18...	54	16	1.4	3300	20	80
AUG 13...	20	8	0.6	230	22	18
SEP 11...	16	8	0.3	460	27	18

ALTAMAHA RIVER BASIN

02208005 YELLOW RIVER NEAR STEWART, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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...	0.990	<0.030	--	--	--	0.060	1.2
NOV							
08...	0.920	0.030	--	--	--	0.090	2.9
DEC							
06...	0.340	<0.030	--	--	--	0.070	9.1
JAN							
10...	0.860	0.030	--	--	--	0.090	3.1
FEB							
07...	0.690	<0.030	--	--	--	0.050	1.6
MAR							
07...	0.640	<0.030	--	--	--	0.040	3.5
APR							
04...	0.660	<0.030	--	--	--	0.070	2.0
MAY							
09...	0.450	0.060	--	--	--	0.080	3.8
JUN							
06...	0.750	0.040	--	--	--	0.100	6.4
JUL							
18...	0.690	0.070	0.03	0.10	0.79	0.080	5.7
AUG							
13...	0.640	<0.030	--	<0.10	--	0.070	3.5
SEP							
11...	0.840	<0.030	--	0.20	1.0	0.040	1.5

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. Datum of gage is 646.10 ft above National Geodetic Vertical Datum of 1929 (leveling by global positioning system equipment). Prior to Oct. 1986, at site 400 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Oct. 22 to Nov. 14 and Dec. 10 to Jan. 10. Records good, except those for the periods of estimated daily discharges, which are fair to poor. Discharge affected by diversions due to irrigation and by the city of Covington.

AVERAGE DISCHARGE.--19 years, 243 ft³/s, 17.84 in./yr. The figure published in the 1990 report was in error; the correct figure is 18 years, 244 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)
Mar. 30	1600	*1,440	*9.07				

Minimum daily discharge, 62 ft³/s, Oct. 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	80	91	165	852	251	972	467	216	237	149	196
2	67	78	91	145	769	522	573	389	253	206	161	176
3	65	78	104	150	455	735	411	286	306	218	152	138
4	65	76	196	125	323	744	326	273	237	197	135	120
5	70	76	262	135	267	652	302	526	195	228	120	111
6	76	78	232	132	246	505	296	1200	168	221	110	103
7	69	82	152	136	242	409	285	929	146	206	104	99
8	65	78	138	142	219	355	261	791	138	183	110	97
9	62	80	135	138	200	298	255	544	131	165	114	94
10	63	165	130	138	187	271	379	434	129	150	118	87
11	66	160	115	210	177	248	347	461	125	138	154	82
12	104	140	110	342	165	232	276	407	123	130	150	78
13	149	130	105	433	162	258	248	438	140	125	156	76
14	108	110	100	312	188	296	248	597	162	127	192	74
15	85	107	105	221	212	365	245	428	192	127	207	70
16	77	103	100	269	198	297	228	339	180	144	216	69
17	76	102	100	357	167	249	211	312	178	178	196	69
18	78	101	95	305	164	251	193	364	184	301	156	67
19	81	99	110	244	167	250	261	461	196	358	146	68
20	74	97	130	314	169	235	361	492	304	336	168	70
21	88	98	150	342	202	213	421	640	296	228	139	73
22	95	98	160	285	365	203	314	541	339	204	118	70
23	130	99	150	223	661	199	245	363	382	204	109	66
24	150	100	180	226	678	196	220	304	368	166	104	65
25	120	103	205	288	554	188	208	275	304	158	103	99
26	100	98	170	285	402	176	194	251	295	164	135	139
27	94	94	155	236	315	170	199	235	375	190	203	136
28	88	94	150	207	267	193	285	256	410	175	312	98
29	84	95	140	193	---	451	363	362	345	171	326	84
30	82	94	135	305	---	1270	438	317	291	165	228	76
31	80	---	150	702	---	1340	---	237	---	151	200	---
TOTAL	2679	2993	4346	7705	8973	12022	9565	13919	7108	5951	4991	2850
MEAN	86.4	99.8	140	249	320	388	319	449	237	192	161	95.0
MAX	150	165	262	702	852	1340	972	1200	410	358	326	196
MIN	62	76	91	125	162	170	193	235	123	125	103	65
CFSM	.47	.54	.76	1.34	1.73	2.10	1.72	2.43	1.28	1.04	.87	.51
IN.	.54	.60	.87	1.55	1.80	2.42	1.92	2.80	1.43	1.20	1.00	.57

CAL YR 1990	TOTAL 111904	MEAN 307	MAX 6470	MIN 32	CFSM 1.66	IN. 22.50
WTR YR 1991	TOTAL 83102	MEAN 228	MAX 1340	MIN 62	CFSM 1.23	IN. 16.71

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 Gage Height, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 04...	0600	3.32	60	55	7.3	7.2	20.5	24.0	7.5	85
NOV 08...	1150	5.34	60	58	--	7.1	13.0	15.0	9.0	87
DEC 06...	0730	5.67	60	58	7.4	7.1	8.0	-2.0	10.7	92
JAN 10...	0730	5.52	55	54	7.1	6.9	10.0	8.0	11.0	98
FEB 07...	0700	5.92	50	44	6.8	6.7	11.0	13.0	10.2	94
MAR 07...	0715	6.07	45	43	7.1	6.6	13.0	16.0	10.8	106
APR 04...	0640	5.94	46	42	7.0	6.9	15.0	14.0	9.9	99
MAY 09...	0535	6.35	45	40	6.9	7.0	18.0	20.5	8.4	90
JUN 06...	0530	5.57	57	52	7.2	7.0	22.5	16.0	7.4	87
JUL 18...	0920	5.85	56	52	7.2	7.1	23.0	23.0	7.7	91
AUG 13...	1530	5.52	61	57	7.4	7.1	24.0	24.5	7.8	95
SEP 11...	0920	5.27	60	55	7.1	7.1	23.0	29.5	7.2	85
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)	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...	16	--	0.5	210	20	5	0.220	<0.030	0.080	3.0
NOV 08...	11	--	1.6	50	20	3	0.130	0.050	0.090	3.3
DEC 06...	23	--	1.8	790	16	12	0.210	<0.030	0.100	6.0
JAN 10...	12	--	1.9	170	17	5	0.320	0.050	0.090	2.3
FEB 07...	24	--	0.8	80	12	10	0.330	<0.030	0.060	2.0
MAR 07...	25	--	0.1	50	9	12	0.250	<0.030	0.040	1.5
APR 04...	23	--	0.8	130	13	12	0.240	0.060	0.080	1.9
MAY 09...	42	--	0.9	95	12	21	0.180	0.090	0.100	7.3
JUN 06...	20	--	0.7	85	19	11	0.290	0.050	0.140	8.0
JUL 18...	25	15	1.2	790	20	29	0.280	0.050	0.080	4.3
AUG 13...	19	7	0.7	240	19	10	0.320	<0.030	0.070	4.2
SEP 11...	16	12	0.3	170	18	8	0.310	<0.030	0.050	2.4

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 to fair. Flow regulated by Lloyd Shoals Reservoir (see "Lakes and Reservoirs in the Altamaha River Basin," station 02210000).

AVERAGE DISCHARGE.--41 years (1906-15, 1939-60, 1975-82, 1988-91), 1,725 ft³/s, 16.50 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, 12,800 ft³/s, May 6; gage height, 9.73 ft; minimum daily discharge, 292 ft³/s, Dec. 5.

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	876	1190	703	1710	3390	2820	7750	3260	1500	2470	1560	1220
2	706	1120	644	957	3620	3130	6070	2600	2420	1540	1490	2040
3	701	759	615	1300	3490	3950	4290	1680	2430	1230	1210	2430
4	631	756	530	855	2990	5200	3850	2310	2430	2160	1270	2430
5	821	920	292	553	2540	4670	3630	4580	1870	2960	1090	1320
6	610	1140	1230	938	2540	3850	3130	11200	1020	3630	708	1140
7	609	1180	1110	973	2530	3520	2800	10300	808	2470	732	918
8	791	747	614	993	2510	3370	2380	7510	586	1380	749	1100
9	794	1160	609	1410	2490	3240	2130	5190	586	1480	1390	973
10	970	730	983	1590	2480	3120	2800	4120	829	1660	1470	630
11	885	1080	887	1990	2340	2820	2800	3980	773	1110	1220	619
12	1370	1680	1020	2870	1370	2720	2800	3790	1110	1590	1200	615
13	899	735	857	2710	1590	2730	2790	3650	815	1410	1220	990
14	810	598	1240	1440	1060	2200	2780	3280	887	1240	2100	629
15	896	732	698	1860	1680	2760	2160	2450	1290	1260	2110	629
16	1370	912	568	2000	789	2770	1620	2450	1340	1250	2090	628
17	987	578	515	2430	951	2130	1530	2090	1600	2030	1170	628
18	832	564	552	2020	1790	1260	2220	2410	1920	3470	1270	829
19	1100	572	949	1830	1220	2020	3060	1790	2450	3930	1600	802
20	804	1070	1300	2220	1190	1630	3370	2490	2010	3920	1620	607
21	919	721	1400	2300	2110	2080	3410	2490	2470	3630	674	605
22	1250	644	1630	2110	2400	1850	2950	2490	2470	2430	668	603
23	1370	598	1270	1890	2670	1220	1850	2490	2470	1590	1340	599
24	2540	598	1100	1930	3110	1050	1090	659	2470	1570	666	1080
25	1100	598	1870	1810	3250	1290	1070	636	2750	1520	666	1460
26	971	629	1320	2030	3200	1400	1620	1460	3160	2460	1760	1200
27	576	613	1320	1890	3090	1300	2270	1580	3880	2450	1940	976
28	1260	789	936	1800	2950	1770	3050	2520	3940	2450	2090	613
29	1080	923	1080	1600	---	2760	3150	3500	3580	2260	1450	601
30	1150	654	1240	2310	---	4080	3810	3280	2470	969	1450	1000
31	1220	---	585	3010	---	7890	---	2020	---	1200	2020	---
TOTAL	30898	24990	29667	55329	65340	86600	88230	104255	58334	64719	41993	29914
MEAN	997	833	957	1785	2334	2794	2941	3363	1944	2088	1355	997
MAX	2540	1680	1870	3010	3620	7890	7750	11200	3940	3930	2110	2430
MIN	576	564	292	553	789	1050	1070	636	586	969	666	599
CAL YR 1990	TOTAL 835303	MEAN 2289	MAX 44300	MIN 292	MEAN† 2284				CFSM† 1.61	IN† 21.84		
WTR YR 1991	TOTAL 680269	MEAN 1864	MAX 11200	MIN 292	MEAN† 1886				CFSM† 1.33	IN† 18.04		

†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 1990 TO SEPTEMBER 1991

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...	0500	620	105	101	6.5	6.9	22.5	24.5	3.4	40
NOV										
08...	1230	575	102	99	--	7.0	16.0	15.0	6.9	71
DEC										
06...	0630	531	115	113	7.0	7.1	11.0	-2.0	7.0	64
JAN										
10...	0645	553	100	96	7.3	7.0	10.0	8.0	5.4	48
FEB										
07...	0630	2520	70	66	7.2	6.6	9.0	13.0	9.8	86
MAR										
07...	0630	3550	70	65	7.2	6.9	12.0	17.5	10.6	101
APR										
04...	0600	3910	65	59	7.1	6.8	15.0	10.0	8.8	88
MAY										
09...	0500	6020	63	53	7.0	6.9	20.0	20.0	8.0	89
JUN										
06...	0500	655	84	78	6.6	6.8	23.0	15.0	4.5	53
JUL										
18...	0950	3910	85	80	7.1	7.1	26.5	23.5	6.7	85
AUG										
13...	1600	2010	90	82	6.8	6.8	27.0	25.0	4.7	60
SEP										
11...	0900	609	85	81	7.3	6.9	25.0	27.5	3.9	48

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...	4.0	0.4	<20	26	3	0.400	0.080	0.080	2.3
NOV									
08...	4.0	1.1	<20	24	3	0.560	0.110	0.080	2.6
DEC									
06...	7.0	1.4	70	28	6	0.730	0.140	0.100	16
JAN									
10...	9.0	1.2	90	23	4	0.730	0.100	0.090	3.8
FEB									
07...	54	0.8	170	15	16	0.570	0.080	0.090	3.0
MAR									
07...	60	0.2	1700	15	23	0.570	0.100	0.050	3.7
APR									
04...	9.0	1.0	130	13	11	0.480	0.030	0.080	3.7
MAY									
09...	75	1.5	790	15	37	0.330	0.190	0.100	7.8
JUN									
06...	18	0.7	20	21	5	0.560	0.170	0.070	5.8
JUL									
18...	9.0	1.1	790	24	4	0.440	0.120	0.060	3.7
AUG									
13...	5.0	0.8	<20	22	4	0.590	0.080	0.060	3.6
SEP									
11...	16	0.6	20	21	4	0.530	0.070	0.040	2.0

ALTAMAHA RIVER BASIN

02211800 TOWALIGA RIVER NEAR JULIETTE, GA.

LOCATION.--Lat 33°06'53", long 83°52'14", Monroe County, Hydrologic Unit 03070103, at State Highway 83, 4.5 miles downstream from Eightmile Creek, 5.4 miles above mouth, and 4.2 miles northeast of Juliette.

DRAINAGE AREA.--339 mi².

PERIOD OF RECORD.--July 1991 to September 1991.

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 1990 TO SEPTEMBER 1991

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...	1030	--	54	51	7.0	6.9	23.5	25.0	7.0	83
SEP 11...	0730	96	104	97	7.4	7.2	22.0	18.0	6.8	79

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...	74	1.2	1300	16	0.170	0.080	0.090	7.2
SEP 11...	4.0	0.3	170	31	0.340	<0.030	0.050	1.8

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 equipment).

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

AVERAGE DISCHARGE.--27 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)
Jan. 30	2300	1,400	11.48	Apr. 19	1800	1,880	13.25
Mar. 2	1300	*2,030	*13.71				

Minimum daily discharge, 0.27 ft³/s, Oct. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	4.0	4.7	21	198	84	81	137	12	72	18	18
2	.37	4.0	4.7	61	114	1620	60	88	19	47	16	13
3	.41	3.8	5.6	49	85	678	49	63	25	35	15	11
4	.75	3.7	17	34	71	560	42	58	18	33	13	9.1
5	2.2	3.7	13	26	62	180	190	286	22	98	11	7.9
6	3.1	4.0	8.1	22	64	113	266	220	16	101	11	7.0
7	1.9	5.2	7.4	21	89	87	110	119	12	52	11	6.4
8	1.2	4.4	10	25	75	70	80	75	10	36	11	6.1
9	.90	5.8	12	23	60	60	67	63	8.9	31	11	5.8
10	.84	33	8.8	20	52	52	90	60	8.4	24	11	5.4
11	2.4	19	7.4	53	46	45	67	72	8.1	20	12	5.2
12	12	12	7.1	149	41	41	53	89	7.8	17	14	5.2
13	11	9.4	6.9	105	40	43	47	60	23	15	15	5.1
14	5.4	7.7	6.4	60	44	43	43	48	34	13	26	5.1
15	5.2	6.6	6.2	46	41	38	69	39	21	17	40	4.4
16	3.7	6.0	6.2	78	36	34	41	34	17	23	26	4.0
17	2.5	5.7	6.7	70	35	33	30	31	12	176	16	3.9
18	3.2	5.7	6.8	47	35	35	26	35	12	299	12	6.3
19	7.9	5.4	19	74	34	33	1230	32	12	104	12	4.4
20	5.1	5.6	30	222	38	28	500	33	26	57	12	3.7
21	3.5	5.3	89	115	41	26	133	28	24	39	10	3.7
22	7.6	5.4	50	68	36	25	88	29	18	32	8.7	3.2
23	71	5.6	34	51	112	24	68	28	27	27	6.9	3.0
24	27	5.5	49	137	86	24	57	26	230	20	6.4	2.9
25	11	5.9	43	316	62	21	48	23	116	29	7.6	6.2
26	7.2	5.8	30	126	50	19	42	21	140	24	60	8.2
27	5.7	5.7	23	77	43	18	56	22	100	21	40	6.3
28	4.9	6.0	20	60	39	18	231	32	336	20	24	4.9
29	4.5	5.8	14	53	---	280	369	22	512	18	16	4.1
30	4.3	5.3	13	705	---	569	314	17	131	16	30	4.0
31	4.1	---	16	788	---	137	---	14	---	17	27	---
TOTAL	221.14	211.0	575.0	3702	1729	5038	4547	1904	1958.2	1533	549.6	183.5
MEAN	7.13	7.03	18.5	119	61.7	163	152	61.4	65.3	49.5	17.7	6.12
MAX	71	33	89	788	198	1620	1230	286	512	299	60	18
MIN	.27	3.7	4.7	20	34	18	26	14	7.8	13	6.4	2.9
CFSM	.10	.10	.26	1.65	.86	2.25	2.10	.85	.90	.68	.25	.08
IN.	.11	.11	.30	1.91	.89	2.60	2.34	.98	1.01	.79	.28	.09
CAL YR 1990	TOTAL 19737.70		MEAN 54.1		MAX 4900		MIN .27		CFSM .75		IN. 10.17	
WTR YR 1991	TOTAL 22151.44		MEAN 60.7		MAX 1620		MIN .27		CFSM .84		IN. 11.41	

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. Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Present data above the $\mu\text{g/L}$ level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey will begin using new trace-element protocols in the near future.

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 1990 TO SEPTEMBER 1991

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 23...	1030	80020	85	107	110	7.5	7.4
NOV 14...	1200	81341	7.8	149	152	7.6	7.3
JAN 28...	0830	80020	62	83	83	7.4	7.4
28...	0840	81341	62	83	86	7.4	7.1
MAR 12...	1200	81341	42	90	85	7.3	7.1
MAY 15...	1320	81341	40	110	104	7.5	7.2
21...	0730	80020	28	108	130	7.8	7.7
JUL 18...	1100	81341	306	88	81	7.3	7.1
SEP 03...	0745	80020	11	137	132	7.8	7.5
11...	0800	81341	5.2	147	140	7.4	7.6

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 HCO ₃	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CAO ₃	ALKA- LITY WAT WH TOT FET LAB MG/L AS CAO ₃	ALKA- LITY WAT.DIS FET LAB CAO ₃ (MG/L)
OCT 23...	80020	18.0	--	7.6	81	34	28	--	32
NOV 14...	81341	10.0	22.5	9.8	88	--	--	41	--
JAN 28...	80020	7.5	10.5	11.3	95	29	24	--	25
28...	81341	7.5	10.5	11.3	95	--	--	24	--
MAR 12...	81341	12.0	20.0	9.7	91	--	--	31	--
MAY 15...	81341	22.0	36.0	8.1	94	--	--	44	--
21...	80020	18.0	--	8.3	88	68	56	--	58
JUL 18...	81341	23.0	28.5	7.6	90	--	--	32	--
SEP 03...	80020	21.5	--	7.2	82	70	57	--	60
11...	81341	20.0	19.0	8.2	91	--	--	63	--

ALTAMAHA RIVER BASIN

02212600 FALLING CREEK NEAR JILLETTE, GA.—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 23...	80020	76	--	--	2200	5100
NOV 14...	81341	6.0	1.9	170	--	--
JAN 28...	80020	25	--	--	K17	K17
28...	81341	30	0.7	230	--	--
MAR 12...	81341	27	0.2	490	--	--
MAY 15...	81341	13	0.9	220	--	--
21...	80020	7.0	--	--	770	760
JUL 18...	81341	72	1.2	1200	--	--
SEP 03...	80020	4.8	--	--	2300	K2300
11...	81341	7.0	0.2	490	--	--

DATE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	HARD- NESS TOTAL (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 23...	80020	31	6.9	3.3	9.0	37	0.7	2.0
JAN 28...	80020	27	6.1	2.9	5.5	30	0.5	0.90
MAY 21...	80020	49	11	5.2	7.8	25	0.5	1.2
SEP 03...	80020	49	11	5.3	7.7	25	0.5	1.8

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 23...	80020	12	4.2	1.3	17	82	74	18.8	0.11
JAN 28...	80020	9.1	4.1	0.40	16	56	60	9.37	0.08
MAY 21...	80020	3.9	3.9	1.2	21	70	90	5.29	0.09
SEP 03...	80020	2.2	2.8	0.80	21	85	88	2.52	0.12

ALTAMAHA RIVER BASIN

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (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, NITRITE 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 23...	<0.010	0.300	0.100	0.030	0.050	<0.010	0.57	0.60	0.130	0.010	<0.010	--
NOV 14...	--	0.040	--	<0.030	--	--	--	--	0.070	--	--	7.5
JAN 28...	<0.010	<0.100	<0.100	0.040	<0.010	0.020	0.26	0.30	0.020	0.020	0.020	--
28...	--	0.030	--	0.170	--	--	--	--	0.060	--	--	8.1
MAR 12...	--	0.040	--	<0.030	--	--	--	--	0.090	--	--	3.3
MAY 15...	--	0.050	--	0.040	--	--	--	--	0.070	--	--	3.2
21...	<0.010	0.098	0.065	0.020	0.010	0.030	--	<0.20	0.020	<0.010	<0.010	--
JUL 18...	--	0.070	--	0.040	--	--	--	--	0.140	--	--	9.7
SEP 03...	<0.010	0.071	0.093	0.020	<0.010	0.020	0.28	0.30	0.030	0.010	<0.010	--
11...	--	0.070	--	<0.030	--	--	--	--	0.070	--	--	2.3

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 23...	80020	280	<1	24	<0.5	<1.0	2	<3	2	370	<1
JAN 28...	80020	20	<1	24	<0.5	<1.0	2	<3	1	430	<1
MAY 21...	80020	30	<1	32	<0.5	<1.0	1	<3	1	530	<1
SEP 03...	80020	20	<1	25	<0.5	<1.0	<1	<3	<1	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 23...	80020	<4	130	<0.1	<10	2	<1	<1.0	62	<6	6
JAN 28...	80020	<4	79	1.1	<10	2	<1	<1.0	50	<6	5
MAY 21...	80020	<4	100	<0.1	<10	<1	<1	<1.0	100	<6	5
SEP 03...	80020	<4	110	<0.1	<10	<1	<1	<1.0	100	<6	<3

ALTAMAHA RIVER BASIN

02212600 FALLING CREEK NEAR JULIETTE, GA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 23...	1035	84213	85	18.0	107	25	99
JAN 28...	0835	84213	62	7.5	18	3.0	84
MAY 21...	0735	84213	28	18.0	9	0.68	92
SEP 03...	0750	84213	11	21.5	8	0.24	93

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 23...	1030	80020	85	<0.6	2.9	2.4	1.1	2.1	1.0	0.11	0.02
MAY 21...	0730	80020	28	<0.6	<0.6	1.8	<0.6	1.5	<0.6	0.02	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 1990 TO SEPTEMBER 1991

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 23...	1430	2650	115	112	7.5	7.4	20.5	21.0	8.0	90
NOV 26...	1850	533	126	123	7.7	7.3	14.0	15.0	10.0	97
DEC 27...	1030	1450	111	100	7.4	7.1	9.5	7.0	10.9	94
JAN 29...	1630	2610	81	86	7.3	7.2	9.0	15.0	11.1	97
FEB 18...	1700	1860	85	86	7.3	7.2	9.0	21.5	11.5	100
MAR 14...	1515	3310	72	69	7.3	7.0	14.5	17.5	9.6	96
APR 29...	1445	6170	66	67	7.0	7.2	20.5	32.0	8.3	93
MAY 23...	1515	3220	63	68	7.3	7.1	22.5	23.0	8.2	95
JUN 24...	1615	--	80	77	7.2	7.2	25.0	25.0	7.2	87
JUL 18...	1200	6830	59	61	6.9	7.0	24.5	26.0	7.2	87
AUG 13...	1800	1520	88	87	7.6	7.4	27.5	26.5	7.6	97
SEP 11...	0700	760	96	88	7.2	7.3	25.0	18.0	6.6	81

ALTAMAHA RIVER BASIN

02212950 OCMULGEE RIVER ABOVE MACON, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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- PENDED (MG/L)
OCT 23...	20	13	1.1	490	28	21
NOV 26...	3.0	9	0.8	20	31	<1
DEC 27...	7.0	10	1.6	80	36	5
JAN 29...	20	10	1.2	50	20	12
FEB 18...	17	<5	0.1	40	19	7
MAR 14...	28	<5	0.2	35	17	17
APR 29...	60	22	0.9	490	19	50
MAY 23...	21	7	1.1	170	18	16
JUN 24...	130	30	0.8	11000	19	159
JUL 18...	62	--	0.7	3300	20	55
AUG 13...	7.0	--	0.3	50	25	5
SEP 11...	11	--	0.3	170	26	4

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA 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 23...	0.450	<0.030	0.30	0.75	0.060	5.2
NOV 26...	0.540	<0.030	0.20	0.74	0.070	6.6
DEC 27...	0.440	<0.030	0.20	0.64	0.110	3.5
JAN 29...	0.600	0.080	0.30	0.90	0.080	7.4
FEB 18...	0.530	<0.030	0.30	0.83	0.100	4.0
MAR 14...	0.520	<0.030	0.20	0.72	0.070	<1.0
APR 29...	0.360	<0.030	0.20	0.56	0.140	6.8
MAY 23...	0.440	<0.030	0.10	0.54	0.080	3.3
JUN 24...	0.520	<0.030	0.60	1.1	0.130	9.2
JUL 18...	0.400	0.080	--	--	0.080	6.1
AUG 13...	0.490	<0.030	--	--	0.060	3.5
SEP 11...	0.590	<0.030	--	--	0.050	1.7

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.--81 years (water years 1894-1911, 1929-91), 2,686 ft³/s, 16.28 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)
Mar. 2	1400	*15,200	*18.76

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
No other peak greater than base discharge.			

Minimum daily discharge, 399 ft³/s, Dec. 6.

ALTAMAHA RIVER BASIN

02213000 OCMULGEE RIVER AT MACON, GA.—Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	555	1330	554	725	7060	4100	10000	5890	2190	3360	1250	1880
2	776	1220	607	1850	5990	14000	8660	4410	2810	2990	1640	1360
3	670	1210	600	1240	5550	12300	6510	3160	3760	1790	1570	2430
4	692	853	613	1370	5100	11600	5200	2340	3240	1670	1240	2620
5	615	834	583	915	4110	8860	8640	5260	3150	3820	1230	2540
6	799	964	399	652	3800	6920	8280	9440	1970	5920	1020	1270
7	613	1220	1020	914	3870	5870	5490	13500	1300	4530	650	1230
8	570	1250	1030	1100	3720	5280	4220	11000	1080	2810	597	1030
9	748	1050	595	1120	3540	4870	3620	8630	816	1910	618	1140
10	781	1510	540	1770	3420	4490	4040	6420	724	2010	1260	1040
11	1000	1080	829	2300	3340	4130	4330	5840	934	1960	1580	740
12	1080	1430	795	3990	2780	3590	3920	6250	880	1440	1440	665
13	1320	1600	966	4210	2050	3540	3730	5760	1190	1960	1340	657
14	903	881	706	3330	2250	3250	6320	5310	1030	1490	2080	977
15	786	660	1140	2120	1700	3180	3530	4310	1060	1440	3040	706
16	926	847	626	2910	2260	3340	2530	3460	1490	1760	2720	661
17	1370	918	538	3850	1380	3310	2140	3220	1620	2690	2220	652
18	1030	757	446	3140	1450	2330	2020	2980	1820	6440	1390	662
19	853	708	537	3030	2360	2160	6320	3020	2680	6140	1470	901
20	1120	726	1130	3920	1860	2100	6710	2690	2750	5490	1840	890
21	831	1180	1590	4330	1940	2060	5090	3230	2610	5090	1780	691
22	1250	950	1480	3520	3100	2440	4370	3230	2920	4070	838	667
23	2070	772	1590	2900	4160	2250	3690	3220	2980	2540	769	661
24	2220	666	1300	3230	5110	1740	2050	2810	3470	1850	1390	660
25	2550	573	1320	4620	5120	1300	1630	1170	3340	1760	1080	1360
26	1300	559	1770	3860	4740	1590	1570	1020	3620	2080	1350	1500
27	1140	558	1340	3340	4410	1620	2070	2040	4740	2840	2410	1490
28	712	536	1240	2860	4140	1540	4250	2350	5650	2750	2560	1140
29	1310	701	939	2750	---	4540	6090	3570	6470	2770	2020	767
30	1220	838	943	8570	---	11100	5730	4760	4420	2350	1700	687
31	1230	---	1200	10100	---	9210	---	3740	---	1220	2000	---
TOTAL	33040	28381	28966	94536	100310	148610	142750	144030	76714	90940	48092	33674
MEAN	1066	946	934	3050	3582	4794	4758	4646	2557	2934	1551	1122
MAX	2550	1600	1770	10100	7060	14000	10000	13500	6470	6440	3040	2620
MIN	555	536	399	652	1380	1300	1570	1020	724	1220	597	652
CAL YR 1990	TOTAL 1152412	MEAN 3157	MAX 58700	MIN 399	MEAN† 3152	CFSM† 1.41 IN† 19.11						
WTR YR 1991	TOTAL 970043	MEAN 2658	MAX 14000	MIN 399	MEAN† 2680	CFSM† 1.20 IN† 16.25						

†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, 600 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. Datum of gage is 380.36 ft above National Geodetic Vertical Datum of 1929 (leveling by global positioning system equipment).

REMARKS.--Estimated daily discharges: Oct. 20 to Nov. 16. Records good to fair, except those for the period of estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--30 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)
Jan. 30	1600	2,160	7.19	Mar. 29	2030	1,610	5.40
Mar. 2	0530	2,100	7.00	Apr. 5	1545	*4,680	*11.69
Mar. 3	0845	1,080	4.36				

Minimum daily discharge, 0.26 ft³/s, Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	2.8	7.9	7.4	85	76	49	49	6.0	7.0	18	13
2	.35	2.7	8.5	9.4	53	914	37	44	6.7	6.0	13	12
3	.26	2.6	9.8	8.2	41	624	30	29	6.6	6.9	12	11
4	.90	2.5	11	7.6	33	188	27	24	6.7	6.5	9.5	9.6
5	1.8	2.6	8.8	6.8	28	77	1550	24	7.6	90	8.2	9.0
6	1.1	3.0	8.1	6.6	27	54	243	29	6.1	33	11	8.1
7	1.1	3.5	9.1	7.6	27	45	93	22	5.4	13	15	7.9
8	1.3	3.0	12	8.1	23	36	62	17	5.2	10	8.5	7.6
9	1.3	4.0	9.0	7.1	21	31	49	24	5.1	8.9	7.3	7.2
10	2.0	20	7.8	7.5	19	27	60	27	5.0	7.2	7.5	6.6
11	4.6	10	7.5	22	18	25	40	19	5.0	6.5	12	6.2
12	8.6	8.0	7.0	28	17	23	32	19	5.0	6.1	16	5.6
13	3.1	6.0	7.0	18	17	27	29	17	5.0	5.6	10	5.4
14	1.6	5.0	6.9	13	17	25	26	15	10	5.2	48	4.9
15	1.3	4.0	6.9	12	16	22	24	14	9.6	18	28	4.7
16	1.3	3.6	6.8	21	15	20	23	12	6.1	13	15	4.2
17	1.3	4.0	6.6	15	15	20	20	12	7.4	149	12	4.3
18	4.7	4.0	6.9	12	15	20	19	11	5.7	61	10	4.0
19	3.2	4.2	8.3	59	15	18	65	10	6.6	43	9.0	5.5
20	2.1	4.1	13	58	16	16	35	9.2	6.9	24	8.0	6.7
21	2.0	4.2	13	27	17	16	24	10	5.3	16	7.0	4.6
22	4.0	4.4	8.3	18	16	15	20	11	13	13	6.6	4.2
23	30	4.9	7.5	15	52	15	20	10	15	11	6.2	3.9
24	10	5.7	13	94	34	15	18	9.8	10	10	9.2	3.8
25	7.0	5.3	8.4	88	26	14	16	9.2	8.3	31	27	6.3
26	5.0	5.1	6.9	37	24	13	16	8.6	12	30	225	5.0
27	4.0	5.7	6.4	25	19	13	25	8.4	8.9	18	64	3.8
28	3.5	6.9	6.2	21	18	13	100	9.4	10	12	27	3.4
29	3.1	7.7	6.1	20	---	460	134	8.0	8.2	13	23	3.0
30	3.0	7.6	6.2	917	---	221	65	7.0	8.2	62	36	2.8
31	2.9	---	8.0	246	---	70	---	6.3	---	17	18	---
TOTAL	116.83	157.1	258.9	1842.3	724	3153	2951	524.9	226.6	752.9	727.0	184.3
MEAN	3.77	5.24	8.35	59.4	25.9	102	98.4	16.9	7.55	24.3	23.5	6.14
MAX	30	20	13	917	85	914	1550	49	15	149	225	13
MIN	.26	2.5	6.1	6.6	15	13	16	6.3	5.0	5.2	6.2	2.8
CFSM	.13	.18	.29	2.05	.89	3.51	3.39	.58	.26	.84	.81	.21
IN.	.15	.20	.33	2.36	.93	4.04	3.79	.67	.29	.97	.93	.24
CAL YR 1990	TOTAL	7105.28	MEAN	19.5	MAX	1430	MIN	.20	CFSM	.67	IN.	9.11
WTR YR 1991	TOTAL	11618.83	MEAN	31.8	MAX	1550	MIN	.26	CFSM	1.10	IN.	14.90

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.--No estimated daily discharges. Records good. 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.--54 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)
Jan. 30	1400	*5,380	*17.52	Mar. 29	1930	4,800	16.52
Mar. 2	0415	4,820	16.57	Apr. 6	0945	4,390	15.68

Minimum daily discharge, 16 ft³/s Oct. 1, 18, 19, 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	18	31	88	1150	249	64	305	78	83	66	54
2	17	18	30	99	72	3260	179	235	77	68	66	55
3	17	19	32	103	130	2200	224	178	75	60	66	53
4	18	19	33	110	290	1460	190	137	74	57	66	50
5	18	20	33	101	221	382	1670	137	77	58	63	48
6	19	19	35	92	222	280	3670	151	75	58	60	46
7	18	19	34	92	353	320	744	151	70	58	58	44
8	18	19	34	99	271	340	993	150	66	61	54	44
9	19	21	36	97	197	323	802	149	60	59	53	44
10	19	17	37	101	143	293	494	152	54	60	51	43
11	19	17	37	174	131	158	477	159	50	62	49	41
12	18	17	39	321	128	42	293	179	47	59	62	40
13	17	19	39	189	121	45	112	174	46	58	163	39
14	17	22	39	102	119	85	121	151	45	56	580	38
15	17	25	38	118	127	131	173	137	45	56	280	37
16	17	27	38	313	121	126	199	130	44	57	113	37
17	17	28	39	258	111	136	185	124	45	199	99	37
18	16	29	40	156	98	175	162	121	46	1010	79	36
19	16	30	43	205	89	158	296	112	46	362	73	39
20	17	29	77	529	89	120	329	110	46	209	71	39
21	16	30	163	293	91	106	207	106	46	154	68	37
22	18	30	183	184	100	105	172	99	47	108	64	33
23	18	30	136	116	503	115	154	94	50	90	61	32
24	17	31	201	468	376	119	141	92	55	77	57	30
25	17	32	125	645	242	106	132	89	53	68	54	30
26	18	33	98	341	200	98	128	88	54	64	54	30
27	18	33	94	253	173	95	125	84	55	61	54	30
28	19	35	90	215	119	95	213	81	271	61	54	30
29	19	35	83	211	---	1450	506	79	201	61	55	29
30	19	33	76	3110	---	1950	358	78	103	63	54	29
31	18	---	81	2330	---	460	---	76	---	65	55	---
TOTAL	547	754	2094	11513	5987	14982	13513	4108	2101	3622	2802	1174
MEAN	17.6	25.1	67.5	371	214	483	450	133	70.0	117	90.4	39.1
MAX	19	35	201	3110	1150	3260	3670	305	271	1010	580	55
MIN	16	17	30	88	72	42	64	76	44	56	49	29
CFSM	.10	.14	.37	2.04	1.17	2.66	2.47	.73	.38	.64	.50	.22
IN.	.11	.15	.43	2.35	1.22	3.06	2.76	.84	.43	.74	.57	.24

CAL YR 1990	TOTAL 54619	MEAN 150	MAX 5900	MIN 16	CFSM .82	IN. 11.16
WTR YR 1991	TOTAL 63197	MEAN 173	MAX 3670	MIN 16	CFSM .95	IN. 12.92

ALTAMAHA RIVER BASIN

02213560 TOBESOFKEE CREEK AT MACON, GA.

LOCATION.--Lat 32°46'04", long 83°39'36", Bibb County, Hydrologic Unit 03070103, at second most northern bridge of U.S. Highways 41 and 129, 10.2 miles downstream from Tobesofkee Dam, 6.2 miles above mouth, at Macon.

DRAINAGE AREA.--208 mi².

PERIOD OF RECORD.--March 1991 to September 1991.

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Gage Height, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen by the U.S. Geological Survey. Flow regulated to some extent since November 1967 by Lake Tobesofkee upstream.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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)
MAR 14...	1615	4.85	52	53	6.7	6.5	15.5	18.0	8.4	85
APR 29...	1540	5.54	51	49	6.4	6.6	20.5	27.0	7.0	78
MAY 23...	1600	4.86	62	63	6.8	6.8	21.5	25.0	7.2	82
JUN 24...	1715	4.52	61	62	6.9	6.9	24.0	24.0	7.2	86
JUL 22...	1405	5.21	67	64	6.8	6.7	26.0	33.0	6.5	81
SEP 23...	1420	3.80	68	65	7.1	6.8	22.0	29.0	7.3	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)	TANNIN AND LIGNIN (MG/L)
MAR 14...	100	29	0.4	130	12	0.240	<0.030	0.050	8.8	--
APR 29...	60	24	1.1	220	13	0.150	0.080	0.090	5.9	--
MAY 23...	60	13	1.6	50	19	0.230	0.060	0.040	8.5	--
JUN 24...	120	14	0.2	90	20	0.280	0.050	0.100	4.0	--
JUL 22...	80	23	0.1	230	18	0.250	0.100	0.120	6.5	--
SEP 23...	40	9.0	0.4	800	18	0.410	<0.030	0.090	4.3	99

ALTAMAHA RIVER BASIN

02213561 TOBESOFKEE CREEK TRIBUTARY AT U.S. HIGHWAY 41 AT MACON, GA.

LOCATION.--Lat 32°46'04", long 83°39'39", Bibb County, Hydrologic Unit 03070103, at most southern bridge on U.S. Highways 41 and 129, 10.2 miles downstream from Tobesofkee Dam, 6.2 miles above Ocmulgee River at Macon.

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

REMARKS.--Laboratory analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determinations of Gage Height, 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 1991

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 17...	1400	3.79	71	72	7.1	7.1	25.5	32.0	6.5	79
AUG 21...	1215	3.76	86	83	7.2	7.2	26.0	34.5	6.5	80
SEP 19...	1655	4.01	88	86	7.1	7.2	21.5	29.5	6.7	76

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)
JUL 17...	80	14	0.8	--	23	0.410	<0.030	0.070	4.2
AUG 21...	100	19	0.5	330	27	0.760	0.030	0.110	3.7
SEP 19...	90	17	1.1	2300	26	0.650	<0.030	0.080	2.2

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 23...	1530	5.41	66	65	6.2	6.3	19.0	21.5	5.3	58
NOV 26...	1815	4.03	116	102	6.5	6.4	12.5	17.0	2.0	19
DEC 27...	1130	4.59	77	75	6.1	5.8	8.0	8.0	3.7	31

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 23...	160	17	2.2	330	10	0.830	<0.030	0.080	10
NOV 26...	40	5.0	1.4	<20	21	0.020	0.060	0.150	7.0
DEC 27...	65	13	2.8	80	11	0.040	0.050	0.110	17

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.

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. 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, 14.67 ft, Feb. 1; minimum daily discharge, 651 ft³/s, Oct. 9.

[illegible]

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, 8.3 units Jan. 5, 1991; 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, 225 microsiemens Nov. 28; minimum recorded, 55 microsiemens Mar. 3, 4.

pH: Maximum recorded, 8.3 units Jan. 5; minimum recorded, 6.5 units Jan. 31.

WATER TEMPERATURE: Maximum recorded, 30.5°C July 13; minimum recorded, 7.0°C Jan. 27.

DISSOLVED OXYGEN: Maximum recorded, 11.1 mg/L Feb. 17; minimum recorded, 5.5 mg/L July 26.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 23...	1730	1920	127	125	7.1	7.0	21.0	20.5	7.1	80
NOV 26...	1630	760	170	166	7.5	7.0	14.0	20.0	9.2	89
DEC 27...	1215	1650	132	--	7.3	6.9	9.0	8.0	10.4	89
JAN 29...	1745	3200	92	89	7.1	7.1	9.5	14.0	10.4	91
FEB 18...	1920	1610	123	118	7.1	7.0	9.5	15.0	10.4	91
MAR 14...	1700	3560	84	72	7.2	7.0	15.5	18.5	9.0	91
APR 29...	1615	--	77	74	6.9	7.0	21.0	27.5	7.6	86
MAY 23...	1820	3220	84	81	7.1	7.0	22.5	24.5	7.5	87
JUN 24...	1830	3140	110	107	7.2	7.3	26.5	24.0	6.8	85
JUL 22...	1330	--	86	81	6.8	6.8	27.0	33.0	7.2	92
AUG 20...	1455	1710	110	110	7.0	6.9	29.0	28.0	6.4	85
SEP 23...	1340	825	140	134	7.3	7.1	23.5	29.0	7.3	96

ALTAMAHA RIVER BASIN

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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)
OCT 23...	80	56	11	1.5	14000	25	67
NOV 26...	15	4.0	10	1.0	40	39	2
DEC 27...	35	11	13	1.9	1300	30	13
JAN 29...	--	27	22	1.3	300	19	20
FEB 18...	65	20	6	0.4	330	25	11
MAR 14...	80	30	6	0.3	230	20	24
APR 29...	62	66	15	1.1	4000	20	76
MAY 23...	60	25	13	0.8	4900	21	25
JUN 24...	60	23	15	0.1	1500	28	32
JUL 22...	70	22	16	0.1	270	13	36
AUG 20...	40	29	22	1.0	80	30	112
SEP 23...	20	8.0	9	1.0	170	36	5

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 23...	0.980	0.030	0.27	0.30	1.3	0.180	4.1
NOV 26...	0.880	0.040	0.16	0.20	1.1	0.170	4.0
DEC 27...	0.890	0.080	0.22	0.30	1.2	0.150	--
JAN 29...	0.740	0.120	0.28	0.40	1.1	0.090	7.0
FEB 18...	0.870	0.040	0.26	0.30	1.2	0.130	5.5
MAR 14...	0.580	<0.030	--	0.10	0.68	0.080	3.9
APR 29...	0.600	0.030	0.27	0.30	0.90	0.160	5.6
MAY 23...	0.530	0.040	0.16	0.20	0.73	0.110	3.7
JUN 24...	0.740	<0.030	--	0.30	1.0	0.100	4.2
JUL 22...	0.620	0.040	0.26	0.30	0.92	0.160	6.3
AUG 20...	0.710	0.060	0.24	0.30	1.0	0.160	5.4
SEP 23...	1.02	0.030	0.17	0.20	1.2	0.150	4.5

ALTAMAHA RIVER BASIN

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, 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	170	153	155	139	190	164	147	136	69	63	90	87
2	178	166	149	140	198	177	151	125	77	69	90	66
3	169	152	155	137	196	178	145	127	82	77	65	55
4	166	156	159	135	196	179	139	129	83	82	59	55
5	172	154	162	147	193	167	142	134	84	82	65	59
6	182	166	163	148	198	179	142	134	85	83	70	65
7	179	159	153	139	223	189	151	138	86	83	75	71
8	191	176	144	136	181	162	145	131	---	---	77	74
9	203	176	146	132	179	158	146	120	---	---	78	77
10	191	174	146	127	185	168	148	121	---	---	78	76
11	183	164	145	130	186	166	137	123	91	88	80	77
12	174	161	145	134	179	161	131	114	92	88	85	80
13	159	140	138	133	173	140	116	111	101	92	88	84
14	163	135	150	133	170	145	113	110	105	95	89	84
15	158	142	167	149	160	131	121	114	111	96	92	87
16	157	148	173	161	157	133	127	118	110	97	90	83
17	152	138	165	157	168	154	123	112	109	98	84	81
18	159	141	170	154	182	165	113	105	129	111	90	83
19	168	149	177	168	185	167	115	107	132	102	106	90
20	168	151	179	168	177	163	115	102	116	104	103	92
21	168	147	186	171	158	135	106	95	130	115	103	96
22	161	141	167	157	133	123	101	95	123	103	106	93
23	146	115	169	162	131	122	106	101	106	98	102	94
24	141	121	172	158	129	123	111	105	99	88	112	96
25	132	125	172	165	129	122	110	93	94	89	112	99
26	156	133	172	166	128	113	93	87	93	91	117	109
27	156	146	177	167	128	117	92	87	93	89	115	106
28	178	152	225	174	139	123	95	92	91	86	119	105
29	180	152	189	176	139	134	99	92	---	---	117	102
30	152	144	183	160	158	139	99	81	---	---	103	65
31	160	143	---	---	150	142	76	59	---	---	66	62
MONTH	203	115	225	127	223	113	151	59	132	63	119	55

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

[illegible]

ALTAMAHA RIVER BASIN

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

PH (STANDARD UNITS), 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	7.5	7.5	7.5	7.5	7.5	7.4	7.5	7.4	6.8	6.5	7.3	7.2
2	7.5	7.5	7.5	7.4	7.4	7.4	7.4	7.4	6.9	6.8	7.2	6.8
3	7.6	7.5	7.5	7.4	7.4	7.4	7.4	7.4	7.1	6.9	6.8	6.6
4	7.5	7.5	7.4	7.4	7.4	7.3	7.4	7.4	7.9	7.1	6.8	6.7
5	7.5	7.4	7.4	7.4	7.4	7.4	8.3	7.3	7.1	7.1	6.9	6.8
6	7.5	7.4	7.5	7.4	7.4	7.4	7.4	7.3	7.1	7.1	7.0	6.9
7	7.5	7.5	7.5	7.5	7.5	7.4	7.3	7.2	7.1	7.1	7.0	7.0
8	7.5	7.5	7.5	7.5	7.5	7.4	7.3	7.3	---	---	7.1	7.0
9	7.5	7.5	7.5	7.4	7.4	7.4	7.4	7.3	---	---	7.1	7.1
10	7.5	7.5	7.5	7.3	7.4	7.4	7.4	7.3	---	---	7.2	7.1
11	7.5	7.5	7.4	7.3	7.4	7.4	7.4	7.3	7.2	7.2	7.2	7.2
12	7.5	7.4	7.3	7.3	7.5	7.4	7.3	7.3	7.2	7.2	7.2	7.1
13	7.4	7.4	7.5	7.4	7.5	7.5	7.3	7.2	7.1	7.1	7.2	7.1
14	7.4	7.4	7.5	7.4	7.5	7.4	7.2	7.2	7.2	7.1	7.2	7.1
15	7.4	7.4	7.5	7.4	7.4	7.4	7.2	7.2	7.2	7.1	7.3	7.2
16	7.5	7.4	7.5	7.4	7.4	7.4	7.3	7.2	7.3	7.2	7.3	7.2
17	7.5	7.5	7.5	7.5	7.4	7.3	7.4	7.3	7.3	7.2	7.3	7.2
18	7.5	7.5	7.6	7.5	7.4	7.3	7.3	7.2	7.2	7.1	7.2	7.1
19	7.5	7.5	7.6	7.5	7.4	7.3	7.3	7.2	7.3	7.2	7.2	7.1
20	7.6	7.5	7.5	7.5	7.4	7.3	7.3	7.2	7.3	7.2	7.3	7.2
21	7.6	7.5	7.6	7.5	7.3	7.2	7.2	7.2	7.2	7.2	7.2	7.2
22	7.5	7.4	7.6	7.6	7.3	7.2	7.2	7.1	7.3	7.2	7.2	7.2
23	7.4	7.0	7.6	7.5	7.3	7.2	7.2	7.2	7.3	7.2	7.2	7.1
24	7.1	7.1	7.5	7.5	7.3	7.2	7.3	7.2	7.2	7.1	7.2	7.1
25	7.3	7.1	7.5	7.5	7.3	7.3	7.3	7.2	7.2	7.1	7.2	7.2
26	7.3	7.2	7.5	7.5	7.4	7.3	7.1	7.1	7.2	7.1	7.2	7.1
27	7.4	7.3	7.5	7.5	7.4	7.4	7.1	7.1	7.2	7.2	7.3	7.2
28	7.4	7.4	7.5	7.4	7.6	7.4	7.2	7.1	7.2	7.2	7.3	7.2
29	7.5	7.4	7.4	7.4	7.5	7.4	7.2	7.1	---	---	7.9	7.2
30	7.5	7.5	7.5	7.5	7.5	7.3	7.2	7.0	---	---	7.3	6.7
31	7.5	7.5	---	---	7.4	7.4	7.0	6.5	---	---	6.8	6.6
MONTH	7.6	7.0	7.6	7.3	7.6	7.2	8.3	6.5	7.9	6.5	7.9	6.6

ALTAMAHA RIVER BASIN

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

TEMPERATURE, WATER (DEG. 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	25.5	23.5	16.0	15.0	12.5	12.0	12.0	11.0	11.0	9.0	12.5	11.5
2	26.0	24.0	17.0	15.5	13.5	12.5	11.0	10.0	9.0	8.5	14.0	12.5
3	26.0	25.5	17.5	16.0	14.5	13.5	10.5	10.0	9.5	9.0	14.5	13.5
4	26.5	25.5	18.0	16.5	14.5	13.0	11.0	10.5	10.5	9.5	13.5	12.0
5	26.0	25.0	18.5	17.5	13.0	11.0	11.5	11.0	11.0	10.0	12.0	11.5
6	25.5	24.0	18.0	17.0	11.0	10.5	12.0	11.5	11.5	10.5	13.5	12.5
7	25.0	24.0	17.5	16.5	10.5	10.0	12.5	12.0	12.0	11.5	15.0	13.5
8	26.0	24.0	17.5	16.5	10.0	9.5	12.5	11.5	---	---	15.0	13.5
9	27.0	25.0	16.5	15.5	10.0	9.0	11.0	11.0	---	---	13.5	13.0
10	26.0	24.5	15.5	14.0	10.0	9.0	11.0	10.5	---	---	13.0	12.5
11	24.5	24.0	14.0	13.5	10.5	9.5	10.5	10.5	11.0	10.5	12.5	12.0
12	24.0	23.5	14.5	13.5	10.0	9.5	10.5	10.0	10.5	10.0	13.5	12.0
13	24.0	23.0	14.5	13.5	10.5	9.5	10.0	9.5	11.0	10.5	15.0	13.0
14	24.0	23.0	15.0	14.0	12.0	10.5	9.0	8.5	12.0	11.0	15.5	14.0
15	23.5	22.5	15.0	14.0	12.0	11.5	9.5	8.5	11.5	9.0	14.5	13.5
16	23.5	22.5	15.0	14.0	12.5	11.5	10.5	9.5	9.0	7.5	13.5	13.5
17	23.0	22.5	15.0	14.0	13.5	12.5	10.5	10.5	7.5	7.0	13.5	13.0
18	23.5	22.5	14.0	13.0	14.5	13.5	10.5	9.5	9.5	7.5	14.5	12.5
19	22.5	21.0	13.0	12.5	14.5	14.0	9.5	9.0	10.5	9.5	15.5	14.0
20	20.5	20.0	13.5	12.5	14.5	14.0	9.0	9.0	13.0	10.5	15.5	14.5
21	20.0	19.5	14.0	13.0	14.0	13.0	9.0	9.0	13.5	13.0	16.0	15.0
22	20.5	20.0	14.0	13.0	13.5	13.0	8.5	7.5	13.5	12.5	17.5	15.5
23	21.0	20.0	14.5	13.5	14.0	13.5	7.5	7.0	12.5	12.0	18.0	17.0
24	20.0	19.5	14.5	13.5	14.0	12.5	7.0	7.0	11.5	11.5	18.5	17.5
25	19.5	17.5	14.0	13.5	12.0	10.0	7.5	7.0	12.0	11.5	18.5	17.5
26	17.5	16.0	14.0	13.0	10.0	9.0	7.5	7.0	12.0	11.5	18.5	17.0
27	16.0	15.5	15.0	13.5	9.0	9.0	7.5	7.0	11.5	11.0	18.5	17.5
28	16.0	15.0	16.5	15.0	9.5	9.0	8.5	7.5	12.0	11.0	19.5	18.0
29	16.5	15.0	16.5	15.0	10.0	9.0	9.5	8.5	---	---	19.0	18.0
30	16.0	15.0	15.0	12.5	12.0	10.0	11.0	9.5	---	---	18.0	16.0
31	16.5	15.0	---	---	12.5	12.0	12.0	11.0	---	---	16.0	15.5
MONTH	27.0	15.0	18.5	12.5	14.5	9.0	12.5	7.0	13.5	7.0	19.5	11.5

ALTAMAHA RIVER BASIN

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

OXYGEN, DISSOLVED (MG/L), 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	6.9	6.8	9.2	9.0	10.0	9.8	10.0	9.8	9.6	8.5	9.8	9.6
2	6.9	6.7	9.1	8.8	9.8	9.4	10.5	9.9	10.1	9.6	9.6	8.3
3	7.1	6.7	9.0	8.8	9.4	9.0	10.5	10.2	10.4	10.1	8.2	7.6
4	6.8	6.6	8.9	8.2	9.0	8.6	10.3	10.2	10.2	10.1	8.5	7.9
5	6.7	6.3	8.3	8.1	9.7	8.9	10.2	9.8	10.1	9.8	8.9	8.5
6	7.0	6.7	8.3	8.1	9.9	9.7	9.9	9.6	9.8	9.6	8.9	8.7
7	7.3	7.0	8.6	8.3	10.1	9.6	9.5	9.4	9.7	9.5	8.7	8.5
8	7.0	6.9	8.7	8.4	10.4	10.2	9.9	9.5	---	---	8.7	8.5
9	6.9	6.7	8.9	8.6	10.5	10.2	10.3	9.9	---	---	9.2	8.7
10	7.0	6.7	8.7	8.6	10.2	10.1	10.5	10.1	---	---	9.5	9.2
11	7.0	6.7	9.0	8.8	10.2	10.1	10.5	10.2	10.1	10.0	9.7	9.5
12	7.1	6.8	9.1	8.9	10.5	10.2	10.3	10.1	10.2	10.1	9.7	9.4
13	7.0	6.8	9.5	9.2	10.5	10.3	10.2	10.1	10.1	9.7	9.4	9.1
14	7.1	6.9	9.3	9.0	10.4	9.8	10.4	10.2	9.8	9.5	9.0	8.9
15	7.2	7.0	9.0	8.7	9.9	9.6	10.4	10.2	9.8	9.4	9.4	8.9
16	7.4	7.1	9.0	8.7	9.9	9.1	10.3	10.1	11.0	9.8	9.6	9.4
17	7.6	7.3	9.1	8.9	9.5	9.3	10.2	10.0	11.1	10.9	9.6	9.5
18	7.5	7.2	9.3	9.1	9.3	8.6	10.3	10.2	10.9	10.4	9.5	9.1
19	7.5	7.2	9.4	9.2	8.9	8.7	10.4	10.1	10.7	10.4	9.1	8.6
20	7.9	7.5	9.5	9.3	9.2	8.7	10.5	10.2	10.6	9.6	9.2	8.9
21	8.1	7.7	9.4	9.3	9.3	9.0	10.4	10.2	9.6	9.2	9.0	8.7
22	7.9	7.7	9.6	9.3	9.5	9.3	10.7	10.3	9.8	9.2	9.0	8.6
23	7.6	7.0	9.3	9.0	9.3	9.2	10.9	10.6	9.8	9.5	8.8	8.1
24	7.5	7.1	9.1	9.0	9.3	8.8	10.9	10.7	9.6	9.5	8.6	8.0
25	8.0	7.6	9.1	9.0	10.0	9.3	11.0	10.8	9.6	9.5	8.4	8.2
26	8.2	8.0	9.8	9.1	10.8	10.1	10.8	10.6	9.6	9.4	8.4	8.0
27	8.7	8.3	9.9	9.7	10.7	10.4	10.8	10.6	9.8	9.6	8.5	8.4
28	8.7	8.4	9.7	9.2	10.6	10.3	10.7	10.4	9.9	9.8	8.4	7.9
29	8.9	8.4	9.2	9.0	10.7	10.4	10.4	10.1	---	---	8.2	8.0
30	9.1	8.9	10.0	9.2	10.4	9.8	10.2	9.7	---	---	8.2	7.3
31	9.0	8.8	---	---	10.2	9.8	9.6	8.3	---	---	7.9	7.3
MONTH	9.1	6.3	10.0	8.1	10.8	8.6	11.0	8.3	11.1	8.5	9.8	7.3

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[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 1990 TO SEPTEMBER 1991

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...	1330	1650	140	142	7.3	7.3	22.5	26.5	7.6	90
NOV 13...	1040	1180	143	145	7.2	7.0	14.0	13.5	8.8	87
DEC 20...	1040	1450	150	150	6.9	7.0	13.0	13.0	9.2	88
JAN 31...	0910	12700	64	67	6.4	6.5	11.0	7.0	--	--
FEB 21...	1435	2500	108	105	7.3	6.9	14.5	23.0	10.4	103
MAR 21...	0840	3100	86	83	6.8	6.8	15.0	12.0	8.8	88
APR 18...	1245	4000	92	90	7.0	6.9	22.0	28.5	6.9	81
MAY 23...	0740	3700	83	81	7.0	7.0	23.0	24.0	7.3	86
JUN 20...	1045	2500	104	99	7.2	7.2	27.0	28.0	6.8	87
JUL 22...	1240	7800	81	72	6.8	6.8	26.5	33.0	6.2	78
AUG 20...	1400	2400	112	111	7.0	6.9	28.0	28.0	7.0	91
SEP 23...	1300	1160	135	130	7.2	6.9	22.5	30.0	7.2	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- 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 18...	40	13	0.8	170	32	0.770	0.040	0.160	7.4
NOV 13...	20	6.0	1.1	50	32	0.780	0.070	0.140	4.1
DEC 20...	40	9.0	0.2	230	30	1.54	0.240	0.280	4.5
JAN 31...	90	35	1.1	700	12	0.350	0.060	0.170	8.2
FEB 21...	30	26	0.8	460	23	0.630	0.080	0.110	4.4
MAR 21...	50	24	0.5	130	20	0.560	<0.030	0.100	4.2
APR 18...	90	22	0.9	490	24	0.540	0.080	0.160	5.2
MAY 23...	50	27	0.5	110	20	0.540	0.040	0.090	5.2
JUN 20...	--	29	0.9	3300	25	0.720	0.040	0.110	3.2
JUL 22...	60	18	0.1	330	20	0.380	<0.030	0.130	7.4
AUG 20...	40	23	0.6	260	30	0.700	0.040	0.120	4.6
SEP 23...	20	10	0.6	110	35	0.930	0.040	0.160	4.6

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.

AVERAGE DISCHARGE.--5 years (water years 1987-1991), 140 ft³/s, 11.66 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,740 ft³/s, Mar. 3, 1991; gage height, 14.13 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)
Feb. 1	0700	2,320	11.25	July 20	2100	1,070	8.54
Mar. 3	2200	*4,740	*14.13	Aug. 15	1800	2,010	10.70
May 14	0800	1,130	8.73				

Minimum discharge, 6.7 ft³/s, Oct. 4, 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	18	30	38	2140	125	505	363	111	52	498	117
2	7.9	17	29	64	1350	976	269	289	140	44	654	94
3	7.3	17	29	72	799	3820	183	204	147	37	467	83
4	6.9	16	36	67	518	3890	147	143	152	32	272	75
5	7.5	16	39	57	405	2260	134	194	214	30	183	70
6	8.1	15	37	51	347	1310	174	364	135	47	136	67
7	7.5	15	36	48	422	874	172	571	93	53	116	61
8	7.1	15	43	45	548	657	177	548	74	66	98	57
9	7.2	17	44	46	546	511	157	337	62	68	81	55
10	7.8	47	41	46	407	420	188	307	54	65	71	51
11	10	52	38	75	320	363	201	562	48	75	77	48
12	103	42	34	126	273	324	186	554	43	82	127	46
13	108	32	32	129	242	313	139	506	39	65	123	43
14	40	27	32	108	225	326	113	1040	35	43	307	39
15	21	25	31	83	212	371	101	791	36	33	1480	36
16	15	24	32	139	192	335	95	497	43	214	1460	34
17	13	23	34	192	171	278	105	422	43	532	828	33
18	12	23	32	192	161	274	115	287	36	554	443	38
19	13	22	34	144	160	288	120	204	33	602	282	44
20	13	22	41	204	161	281	152	163	31	1000	220	38
21	12	23	50	227	164	244	227	149	31	790	189	36
22	15	23	54	187	159	218	263	146	27	383	143	35
23	45	23	54	127	167	203	227	148	24	225	114	33
24	81	24	48	148	186	192	170	142	26	159	100	31
25	85	24	41	266	203	178	160	130	68	109	99	32
26	57	23	39	315	167	164	133	118	92	87	106	37
27	33	24	37	319	141	150	114	104	105	77	108	37
28	26	25	34	240	126	137	112	98	102	70	175	34
29	23	32	34	232	---	136	142	91	83	77	310	29
30	21	35	34	529	---	161	255	83	65	102	249	26
31	20	---	35	1550	---	296	---	77	---	246	153	---
TOTAL	841.8	741	1164	6066	10912	20075	5236	9632	2192	6019	9669	1459
MEAN	27.2	24.7	37.5	196	390	648	175	311	73.1	194	312	48.6
MAX	108	52	54	1550	2140	3890	505	1040	214	1000	1480	117
MIN	6.9	15	29	38	126	125	95	77	24	30	71	26
CFSM	.17	.15	.23	1.20	2.39	3.97	1.07	1.91	.45	1.19	1.91	.30
IN.	.19	.17	.27	1.38	2.49	4.58	1.19	2.20	.50	1.37	2.21	.33

CAL YR 1990 TOTAL 43555.3 MEAN 119 MAX 1680 MIN 4.4 CFSM .73 IN. 9.94
WTR YR 1991 TOTAL 74006.8 MEAN 203 MAX 3890 MIN 6.9 CFSM 1.24 IN. 16.89

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 current year.

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 1990 TO SEPTEMBER 1991

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 19...	1505	1650	150	151	7.3	7.3	13.0	18.0	9.2	88
JAN 31...	1410	8000	70	66	6.4	6.6	11.5	12.5	--	--
MAR 21...	1335	5150	84	83	7.1	6.9	16.0	26.0	8.8	90
MAY 23...	1230	4600	98	95	7.0	7.1	23.0	26.0	6.8	80
JUL 22...	1000	5700	74	72	6.8	6.8	25.0	29.0	6.3	77
SEP 23...	1005	1550	137	135	7.4	7.2	23.5	23.0	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- 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)
NOV 19...	25	6.0	1.0	20	38	0.660	<0.030	0.120	4.0
JAN 31...	90	33	0.9	1300	12	0.390	0.060	0.200	13
MAR 21...	60	18	0.2	30	21	0.540	<0.030	0.070	6.8
MAY 23...	55	20	0.6	170	29	0.510	0.040	0.100	1.2
JUL 22...	80	33	0.1	70	22	0.290	0.040	0.150	9.9
SEP 23...	20	9.0	0.7	20	39	1.03	<0.030	0.110	3.9

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.--55 years, 5,470 ft³/s, 14.34 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)
Feb. 8	2200	19,600	13.91	Mar. 11	0900	*25,000	15.17
Mar. 9	1300	(A)	*15.41				

Minimum discharge, 1,220 ft³/s, Oct. 6-10, gage height, 0.93 ft.

(A) Backwater from Oconee River.

ALTAMAHA RIVER BASIN

02215500 OCMULGEE RIVER AT LUMBER CITY, GA.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1400	2280	1800	2680	15600	5710	6520	6750	4390	4250	5600	5470
2	1360	2080	1800	2810	15800	6740	6620	6270	4420	4270	6450	5580
3	1330	2080	1800	2850	15600	11000	6590	5700	4690	4370	7520	5400
4	1320	2070	1850	2880	15900	16900	6770	5510	5210	4550	7900	4900
5	1280	2070	1870	2950	16800	20600	7210	5550	5660	4720	7640	4380
6	1230	2060	1830	3020	17800	21800	7890	5740	6050	4920	7190	3990
7	1230	2030	1840	3090	18800	21500	8800	6100	6210	5130	6570	3680
8	1220	1970	1920	3100	19400	22200	9880	6580	5870	5320	5770	3630
9	1220	1920	2010	3040	19500	23100	10900	6990	5470	5270	4890	3660
10	1320	2240	2020	2860	19200	24200	11600	7160	5210	5080	4190	3600
11	1400	2430	2020	3380	18300	24700	11600	7310	4890	5040	3850	3250
12	1760	2500	2130	4890	16800	23800	11100	7360	4210	5030	4030	2910
13	2730	2540	2170	5720	15000	22200	10300	7300	3450	5060	4010	2670
14	2660	2570	2070	6080	13100	20200	9740	7530	3000	5160	3900	2540
15	2700	2570	1980	6110	11400	18100	9750	7990	2910	5310	4400	2410
16	2700	2470	1980	5930	9970	15900	9980	8880	2830	5730	4610	2230
17	2470	2460	2030	6040	8880	13600	9880	10100	2760	6060	4750	2080
18	2170	2370	2020	6290	8090	11900	9240	11100	2790	6600	5070	2010
19	1940	2180	2070	6520	7490	10700	8460	11600	2820	6760	5530	2030
20	1800	2030	2320	7730	6910	9890	7620	11500	2830	6340	6000	1960
21	1810	1970	2500	9050	6380	9240	6970	10800	2920	6200	6450	1890
22	1880	1950	2440	10100	5930	8590	6440	9730	3000	6400	6620	1840
23	1890	1910	2400	10200	5590	7990	6060	8480	3080	6590	6300	1820
24	1920	1870	2510	9610	5450	7480	5980	7380	3250	6710	5610	1870
25	2030	1880	2720	10400	5390	7020	6060	6490	3530	6800	4790	1910
26	2260	1970	2870	11200	5350	6530	6120	5780	3800	6880	4420	1880
27	2600	1970	2900	11500	5410	6070	6280	5530	3930	6900	4280	1810
28	2850	1920	2860	11400	5550	5720	6920	5420	4000	6810	4390	1750
29	2970	1860	2770	11400	---	5430	7240	5260	4050	6670	4620	1770
30	2900	1810	2790	12600	---	5580	7110	4910	4170	6510	5000	2000
31	2610	---	2770	14300	---	6130	---	4360	---	5940	5240	---
TOTAL	60960	64030	69060	209730	335390	420520	245630	227160	121400	177380	167590	86920
MEAN	1966	2134	2228	6765	11980	13570	8188	7328	4047	5722	5406	2897
MAX	2970	2570	2900	14300	19500	24700	11600	11600	6210	6900	7900	5580
MIN	1220	1810	1800	2680	5350	5430	5980	4360	2760	4250	3850	1750
CFSM	.38	.41	.43	1.31	2.31	2.62	1.58	1.41	.78	1.10	1.04	.56
IN.	.44	.46	.50	1.51	2.41	3.02	1.76	1.63	.87	1.27	1.20	.62
CAL YR 1990	TOTAL	1859340	MEAN	5094	MAX	41100	MIN	1200	CFSM	.98	IN.	13.35
WTR YR 1991	TOTAL	2185770	MEAN	5988	MAX	24700	MIN	1220	CFSM	1.16	IN.	15.70

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 1990 TO SEPTEMBER 1991

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...	0540	2550	134	120	7.3	7.3	22.5	20.0	6.7	77
NOV 14...	0645	2550	138	139	7.1	7.4	13.0	8.0	6.6	62
DEC 12...	0740	2110	158	155	7.4	7.4	9.0	9.0	8.1	70
JAN 23...	0650	10400	73	73	6.8	6.5	7.0	4.0	9.8	80
FEB 13...	0650	15400	73	75	6.7	6.5	10.0	12.0	7.6	67
MAR 13...	0620	22600	56	53	6.6	6.6	12.0	14.0	7.1	66
APR 03...	1410	6570	81	81	6.9	7.2	16.5	21.5	5.9	60
MAY 15...	0545	7810	74	76	6.8	6.8	23.5	22.5	5.2	62
JUN 12...	0540	4440	106	110	7.2	7.3	24.5	20.0	5.0	60
JUL 31...	0525	6130	106	104	7.0	7.0	26.5	25.0	5.9	74
AUG 28...	0710	4350	113	111	7.2	7.1	25.0	23.5	5.4	65
SEP 18...	0530	2010	147	141	7.6	7.3	27.5	23.5	6.9	87

ALTAMAHA RIVER BASIN

02215500 OCMULGEE RIVER AT LUMBER CITY, GA.—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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- 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 17...	50	18	0.9	50	33	15	0.530	0.030	0.140	6.8
NOV 14...	30	12	0.6	--	37	12	0.650	<0.030	0.060	10
DEC 12...	35	6.0	0.6	--	44	5	0.530	<0.030	0.110	5.2
JAN 23...	100	23	1.4	700	15	12	0.300	<0.030	0.120	12
FEB 13...	90	22	0.7	80	15	3	0.190	<0.030	0.090	8.2
MAR 13...	150	40	0.5	<20	14	6	0.080	<0.030	0.080	6.8
APR 03...	80	20	1.0	60	25	10	0.290	<0.030	0.090	8.6
MAY 15...	110	25	0.9	50	22	10	0.230	<0.030	--	15
JUN 12...	75	23	0.6	20	35	14	0.470	<0.030	0.130	5.3
JUL 31...	50	12	0.6	70	35	8	0.360	0.130	0.070	5.4
AUG 28...	55	24	0.3	--	37	43	0.430	<0.030	0.070	9.1
SEP 18...	15	13	0.6	--	48	13	0.780	<0.030	0.090	2.6

ALTAMAHA RIVER BASIN

02215735 GUM SWAMP CREEK NEAR EASTMAN, GA.

LOCATION.--Lat 32°12'16", long 83°08'13", Dodge County, Hydrologic Unit 03070105, at State Highway 46, 0.8 miles downstream of Sheffield Branch, and 2.5 miles east of Eastman.

PERIOD OF RECORD.--July 1991 to September 1991.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 22...	1055	7.66	47	46	6.4	6.1	25.0	33.0	5.8	71
SEP 23...	1055	4.97	80	75	6.6	6.5	21.0	25.0	2.0	23

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 22...	120	9.0	0.3	110	9	0.030	<0.030	0.100	17
SEP 23...	90	5.0	1.2	110	23	0.040	0.230	0.080	15

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.--8 years, 45.9 ft³/s, 12.67 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. 20	0800	612	8.17	Mar. 3	2400	*2,020	*10.24
Jan. 31	0445	797	8.60				

Minimum discharge, no flow, Oct. 1-10 and Sept. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	8.5	12	28	469	49	118	37	8.0	3.3	53	24
2	.00	7.8	9.1	108	287	480	73	77	6.4	2.2	159	14
3	.00	7.3	7.8	166	211	1430	52	34	5.3	3.6	199	10
4	.00	7.2	8.2	168	168	1770	41	15	3.9	5.2	142	6.9
5	.00	7.7	7.9	116	141	679	40	118	27	3.4	59	4.6
6	.00	7.5	6.5	69	127	313	66	503	34	47	26	3.1
7	.00	6.7	8.6	54	133	227	72	309	12	76	16	2.3
8	.00	5.9	41	65	149	174	67	159	5.5	57	10	2.2
9	.00	11	48	63	142	143	54	82	2.9	35	6.0	2.0
10	.00	70	38	53	127	118	46	76	1.8	22	6.5	1.5
11	.07	94	27	198	103	100	38	133	1.2	13	31	1.1
12	170	68	18	466	90	90	32	103	.78	20	18	.87
13	210	45	13	436	83	90	29	55	.28	15	10	.58
14	109	23	11	250	81	96	24	40	1.8	6.9	7.7	.35
15	33	13	10	161	79	97	20	31	46	5.7	5.7	.22
16	24	11	9.4	214	72	89	18	35	70	15	4.9	.15
17	16	14	8.5	248	66	82	20	24	29	116	3.9	.14
18	13	7.8	8.3	205	65	116	50	19	11	194	3.0	.64
19	15	6.8	14	197	67	134	28	14	14	112	2.5	.47
20	12	5.8	51	547	67	116	18	15	7.1	101	2.0	.32
21	9.3	5.1	96	436	67	92	13	15	4.9	105	2.1	.22
22	14	4.4	96	295	68	72	9.7	34	4.2	65	1.3	.16
23	31	4.1	77	196	68	64	26	42	2.2	35	.86	.12
24	47	4.5	65	211	68	60	41	36	4.7	21	1.8	.08
25	55	4.5	61	474	66	57	28	30	83	11	22	.08
26	41	4.1	49	408	63	49	20	23	42	6.8	54	.13
27	24	3.7	35	273	58	43	94	33	21	5.6	75	.09
28	16	7.6	25	246	52	40	86	69	11	3.6	58	.02
29	13	38	23	282	---	62	67	53	7.6	6.4	52	.01
30	11	23	21	698	---	315	42	23	5.0	22	100	.00
31	9.3	---	22	721	---	192	---	12	---	25	46	---
TOTAL	872.67	527.0	927.3	8052	3237	7439	1332.7	2249	473.56	1159.7	1178.26	76.35
MEAN	28.2	17.6	29.9	260	116	240	44.4	72.5	15.8	37.4	38.0	2.54
MAX	210	94	96	721	469	1770	118	503	83	194	199	24
MIN	.00	3.7	6.5	28	52	40	9.7	12	.28	2.2	.86	.00
CFSM	.57	.36	.61	5.28	2.35	4.87	.90	1.47	.32	.76	.77	.05
IN.	.66	.40	.70	6.08	2.45	5.62	1.01	1.70	.36	.88	.89	.06
CAL YR 1990	TOTAL 14943.38	MEAN 40.9	MAX 1270	MIN .00	CFSM .83	IN. 11.29						
WTR YR 1991	TOTAL 27524.54	MEAN 75.4	MAX 1770	MIN .00	CFSM 1.53	IN. 20.80						

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. Datum of gage is 656.52 ft above National Geodetic Vertical Datum of 1929 (leveling by global positioning system equipment).

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)
Mar. 30	1230	*3,700	*13.69	No other peak greater than base discharge.			

Minimum daily discharge, 152 ft³/s, Oct. 3, 7-10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	208	201	362	824	419	824	731	351	436	353	246
2	161	206	201	310	624	1320	671	589	352	380	495	237
3	152	200	238	297	524	1070	580	504	463	407	362	221
4	157	200	692	288	468	1030	534	490	350	442	294	209
5	183	203	398	272	432	759	536	998	339	869	260	204
6	165	221	286	264	406	640	560	2860	290	512	255	197
7	152	213	251	275	396	606	525	1500	264	404	279	193
8	152	200	251	309	390	551	469	850	249	362	245	189
9	152	222	233	323	340	532	835	946	244	338	247	186
10	152	574	218	286	316	475	766	1320	236	315	262	179
11	175	388	209	944	304	433	619	878	234	293	233	174
12	368	292	208	1180	294	416	520	749	237	287	230	171
13	389	258	206	676	300	716	550	693	257	265	259	167
14	225	239	206	515	534	759	546	614	330	240	289	162
15	189	228	202	445	403	568	509	554	341	224	447	159
16	178	228	206	670	307	497	462	545	313	284	310	159
17	175	224	201	547	298	460	425	752	265	417	251	161
18	201	219	205	452	336	497	392	644	546	1100	244	160
19	280	214	245	424	326	462	978	606	1540	1180	274	163
20	193	217	252	587	788	419	1030	597	769	648	229	178
21	178	213	484	519	1210	400	694	542	543	491	215	171
22	200	211	403	434	754	390	571	519	636	416	200	164
23	618	212	369	393	887	388	517	500	468	360	195	155
24	462	220	813	406	738	379	479	480	397	338	194	156
25	322	221	538	495	607	344	425	443	381	457	202	202
26	271	206	407	422	539	327	401	419	429	356	353	317
27	239	216	339	392	469	323	442	411	841	740	490	205
28	222	225	346	380	433	466	868	461	984	444	327	178
29	218	231	323	363	---	1420	892	450	886	377	263	172
30	211	227	310	958	---	3180	977	384	560	385	311	162
31	206	---	367	1690	---	1220	---	350	---	354	291	---
TOTAL	7103	7136	9808	15878	14247	21466	18597	22379	14095	14121	8859	5597
MEAN	229	238	316	512	509	692	620	722	470	456	286	187
MAX	618	574	813	1690	1210	3180	1030	2860	1540	1180	495	317
MIN	152	200	201	264	294	323	392	350	234	224	194	155
CFSM	.67	.70	.93	1.51	1.50	2.04	1.82	2.12	1.38	1.34	.84	.55
IN.	.78	.78	1.07	1.74	1.56	2.35	2.03	2.45	1.54	1.55	.97	.61
CAL YR 1990	TOTAL 207450	MEAN 568	MAX 10600	MIN 87	CFSM 1.67	IN. 22.70						
WTR YR 1991	TOTAL 159286	MEAN 436	MAX 3180	MIN 152	CFSM 1.28	IN. 17.43						

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.--57 years (water years 1902, 1930-31, 1938-91), 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)
Mar. 30	1900	*4,150	*9.59	No other peak greater than base discharge.			

Minimum daily discharge, 140 ft³/s, Sept. 19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	200	239	254	395	1080	518	1050	900	451	533	375	306
2	191	237	252	348	721	1350	811	689	492	446	471	288
3	194	226	288	334	595	1460	693	592	452	457	409	280
4	202	218	588	321	531	1290	635	555	405	449	336	277
5	219	238	479	312	509	945	624	994	371	1000	298	264
6	214	253	337	305	475	753	627	3160	330	633	292	255
7	205	266	295	316	451	685	603	2400	300	473	320	242
8	187	251	287	327	441	645	543	1060	283	424	292	240
9	204	278	280	349	400	607	821	885	272	390	336	231
10	192	467	271	332	373	561	879	1700	264	356	368	223
11	208	446	265	678	358	526	734	1080	259	340	381	213
12	380	336	265	1580	349	496	604	856	285	308	310	211
13	458	297	254	801	379	725	593	763	283	298	302	205
14	316	282	251	577	538	961	615	684	369	282	327	199
15	259	268	257	490	391	677	575	614	385	268	447	193
16	217	269	257	627	349	590	528	587	367	288	392	188
17	218	287	257	623	369	547	500	834	299	413	315	184
18	211	256	261	505	362	553	467	764	296	1020	291	162
19	299	256	286	473	368	546	795	637	2120	1490	317	140
20	264	255	317	572	490	493	1360	649	1110	792	288	210
21	222	246	466	596	1550	477	817	586	634	548	273	191
22	258	257	415	494	915	456	653	562	920	459	263	181
23	470	252	404	449	978	449	584	523	570	403	244	181
24	489	270	801	453	893	445	548	512	443	400	241	171
25	341	265	549	519	700	413	496	476	396	472	276	240
26	286	258	433	478	615	391	468	452	411	413	310	296
27	263	249	377	442	553	386	503	453	932	709	482	279
28	253	278	372	421	503	468	874	489	1490	520	402	221
29	241	274	358	414	---	1670	1070	511	1090	416	327	206
30	241	276	350	953	---	3800	1160	430	701	406	399	202
31	239	---	375	2250	---	2010	---	388	---	391	345	---
TOTAL	8141	8250	10901	17734	16236	25893	21230	25785	16980	15797	10429	6679
MEAN	263	275	352	572	580	835	708	832	566	510	336	223
MAX	489	467	801	2250	1550	3800	1360	3160	2120	1490	482	306
MIN	187	218	251	305	349	386	467	388	259	268	241	140
CFSM	.66	.69	.88	1.44	1.46	2.10	1.78	2.09	1.42	1.28	.85	.56
IN.	.76	.77	1.02	1.66	1.52	2.42	1.98	2.41	1.59	1.48	.97	.62

CAL YR 1990	TOTAL 239979	MEAN 657	MAX 12600	MIN 109	CFSM 1.65	IN. 22.43
WTR YR 1991	TOTAL 184055	MEAN 504	MAX 3800	MIN 140	CFSM 1.27	IN. 17.20

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 1990 TO SEPTEMBER 1991

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...	1045	340	68	67	7.1	6.9	15.5	13.0	7.9	82
NOV 15...	0930	190	68	67	6.9	7.0	10.0	16.5	9.7	86
DEC 11...	1115	240	65	63	7.2	7.1	7.0	19.0	10.4	87
JAN 16...	1320	460	62	58	7.1	6.8	8.0	16.0	10.5	91
FEB 12...	1045	310	63	63	7.3	6.9	8.5	13.0	10.8	94
MAR 13...	0900	620	57	53	7.1	6.8	12.0	9.0	10.8	104
APR 09...	1330	440	63	59	7.1	6.9	19.0	24.0	7.7	85
MAY 14...	0920	720	63	59	6.9	6.9	20.0	23.5	7.7	87
JUN 11...	0915	190	66	62	7.2	7.1	20.5	29.0	7.2	81
JUL 17...	1220	390	62	59	7.0	6.9	23.0	27.5	7.0	83
AUG 15...	0800	290	71	64	7.2	7.1	21.5	23.0	7.7	89
SEP 19...	1245	150	71	65	7.2	7.1	24.5	31.5	6.4	78

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 25...	34	1.0	1100	21	22	0.270	0.040	0.120	3.3
NOV 15...	10	1.0	170	25	5	0.340	0.050	0.040	5.9
DEC 11...	9.0	0.6	490	23	5	0.320	0.070	0.080	2.3
JAN 16...	22	0.9	1700	19	14	0.520	0.070	0.050	4.6
FEB 12...	15	0.5	110	20	13	0.510	0.030	0.120	1.6
MAR 13...	39	0.5	170	18	32	0.420	<0.030	0.120	3.2
APR 09...	20	0.7	220	20	20	0.380	0.070	0.110	1.4
MAY 14...	33	0.9	490	21	23	0.450	0.050	0.140	3.1
JUN 11...	25	0.9	490	27	22	0.410	<0.030	0.120	3.1
JUL 17...	72	2.2	24000	20	37	0.410	0.130	0.250	8.8
AUG 15...	27	0.9	7900	25	32	0.360	0.040	0.110	3.6
SEP 19...	17	0.8	140	25	--	0.340	<0.030	0.040	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 Se@ices 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 1990 TO SEPTEMBER 1991

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...	0930	1150	-	73	7.0	7.1	15.5	10.5	8.2	--
NOV 15...	0850	560	86	82	7.3	7.1	10.5	17.0	9.7	87
DEC 11...	1030	600	80	79	7.1	7.0	7.0	17.0	9.8	82
JAN 16...	1030	1350	74	68	7.1	7.0	7.5	18.0	11.0	94
FEB 12...	1000	780	76	72	7.3	6.9	8.5	14.0	10.8	94
MAR 13...	0830	1350	74	68	7.2	7.0	12.0	10.5	11.0	105
APR 09...	1230	1250	70	65	7.4	7.1	19.0	26.0	8.9	98
MAY 14...	1230	1650	66	62	7.2	6.9	21.0	28.0	6.9	79
JUN 11...	0815	760	82	78	7.2	7.1	21.0	24.5	7.3	83
JUL 17...	1100	920	79	73	7.3	7.0	23.0	25.0	7.5	89
AUG 14...	1300	660	81	78	7.2	7.0	23.0	24.0	7.9	94
SEP 19...	1200	350	102	93	7.1	7.1	33.0	25.0	6.4	91

ALTAMAHA RIVER BASIN

02218000 OCONEE RIVER NEAR WATKINSVILLE, GA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 25...	56	14	1.5	4900	21	34
NOV 15...	15	12	1.5	330	22	9
DEC 11...	11	10	1.2	1300	21	6
JAN 16...	29	9	1.6	2800	18	19
FEB 12...	16	9	1.7	7900	17	12
MAR 13...	21	6	0.7	490	17	21
APR 09...	23	13	0.9	700	20	23
MAY 14...	33	<5	0.8	700	20	34
JUN 11...	19	8	0.6	170	19	27
JUL 17...	22	--	1.2	790	20	92
AUG 14...	25	--	1.2	700	22	30
SEP 19...	14	--	1.2	160000	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 25...	0.740	0.080	0.32	0.40	1.1	0.140	3.5
NOV 15...	0.940	0.180	0.32	0.50	1.4	0.160	8.6
DEC 11...	1.05	0.230	0.07	0.30	1.3	0.150	8.2
JAN 16...	0.880	0.300	--	--	--	0.090	4.7
FEB 12...	1.03	0.270	0.33	0.60	1.6	0.180	2.1
MAR 13...	0.910	0.140	0.36	0.50	1.4	0.200	6.7
APR 09...	0.750	0.100	0.10	0.20	0.95	0.290	5.6
MAY 14...	0.710	0.050	0.15	0.20	0.91	0.170	3.0
JUN 11...	1.14	0.090	0.21	0.30	1.4	0.160	3.8
JUL 17...	0.840	0.070	--	--	--	0.170	5.8
AUG 14...	0.930	0.140	--	--	--	0.160	3.3
SEP 19...	1.24	0.050	--	--	--	0.160	3.6

ALTAMAHA RIVER BASIN

02218300 OCONEE RIVER NEAR PENFIELD, GA

LOCATION.-Lat 33°43'14", long 83°17'45", 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.

DRAINAGE 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.-14 years, 1,173 ft³/s, 16.95 in/yr.

EXTREMES FOR PERIOD OF RECORD.-Maximum discharge, 31,700 ft³/s (revised), Oct. 1, 1989, gage height, 25.92 ft, from rating curve extended above 22,000 ft³/s on basis of slope conveyance study; minimum daily discharge, 33 ft³/s, Aug. 26, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.-Flood of Dec. 19, 1919, reached a stage of 26.9 ft, information supplied by Georgia Department of Transportation, discharge, 37,000 ft³/s, from rating curve extended above 22,000 ft³/s on basis of slope-conveyance study. Flood of Apr. 6, 1936 reached a stage of 26.7 ft, discharge, 36,000 ft³/s (revised) from rating curve extended above 22,000 ft³/s on basis of slope-conveyance study.

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)
Jan. 31	0900	5,250	12.64	May 7	1700	5,730	13.09
Feb. 23	1000	4,780	12.19	June 22	1800	5,150	12.55
Mar. 30	1700	*7,870	*14.86				

Minimum daily discharge, 400 ft³/s, Oct. 9.

REVISIONS.--The maximum discharge for the water year 1990 has been revised to 31,700 ft³/s, Oct. 1, 1989, gage height, 25.92 ft.

ALTAMAHA RIVER BASIN

02218300 OCONEE RIVER NEAR PENFIELD, GA

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	431	548	546	962	3690	1220	4020	2510	1070	1500	977	884
2	417	542	528	930	2250	3060	2140	1980	2110	1290	990	877
3	414	535	560	860	1650	3560	1740	1520	1390	1480	1060	855
4	409	527	974	832	1420	3410	1540	1340	1280	1310	926	806
5	445	507	1280	814	1290	2560	1500	1680	1170	2050	837	761
6	454	539	1000	787	1230	1970	1500	3930	1050	1840	792	724
7	430	543	819	813	1230	1690	1450	5440	956	1390	911	711
8	407	545	780	877	1140	1550	1360	4100	903	1180	805	684
9	400	543	755	868	1090	1480	1370	2330	876	1130	828	671
10	403	902	718	871	1020	1370	1940	2840	854	1090	1260	645
11	418	1060	687	1250	981	1290	1760	2860	832	1000	937	633
12	1170	880	671	2610	948	1220	1520	2410	816	940	1530	614
13	1160	717	665	2370	937	1450	1370	1920	923	907	968	602
14	944	655	651	1850	1140	1910	1390	1690	886	847	965	592
15	681	613	651	1340	1280	1690	1360	1510	1510	862	1100	578
16	553	595	650	1320	1100	1440	1300	1390	1240	1020	1150	567
17	500	610	649	1450	977	1310	1210	1630	1020	1230	973	558
18	477	580	644	1260	963	1300	1150	2220	1290	1680	864	561
19	496	568	705	1180	991	1290	1190	2420	2670	2260	825	542
20	604	557	759	1590	991	1210	1990	1940	3930	2430	826	582
21	514	558	910	1530	1750	1150	1880	1600	2710	1850	754	585
22	680	557	1040	1310	2680	1120	1620	1470	4110	1280	730	575
23	1300	557	973	1130	4360	1100	1320	1400	2720	1100	712	553
24	1310	551	1140	1160	2590	1100	1220	1340	1940	1010	683	543
25	1050	546	1510	1390	1960	1060	1140	1280	1380	1090	722	704
26	828	545	1290	1280	1630	1010	1080	1210	1230	1230	922	863
27	715	538	1050	1140	1430	982	1110	1190	1970	1110	1110	810
28	652	543	925	1080	1290	1080	1610	1290	3290	1400	1240	685
29	606	566	905	1030	---	2740	1980	1380	2610	1120	988	618
30	587	555	886	2160	---	7410	2970	1210	2110	1010	1020	585
31	569	---	944	5060	---	6970	---	1080	---	1030	1020	---
TOTAL	20024	18082	26265	43104	44008	61702	48730	62110	50846	40666	29425	19968
MEAN	646	603	847	1390	1572	1990	1624	2004	1695	1312	949	666
MAX	1310	1060	1510	5060	4360	7410	4020	5440	4110	2430	1530	884
MIN	400	507	528	787	937	982	1080	1080	816	847	683	542
CFSM	.69	.64	.90	1.48	1.67	2.12	1.73	2.13	1.80	1.40	1.01	.71
IN.	.79	.72	1.04	1.71	1.74	2.44	1.93	2.46	2.01	1.61	1.16	.79
CAL YR 1990	TOTAL 540771		MEAN 1482		MAX 20600		MIN 289		CFSM 1.58 IN. 21.40			
WTR YR 1991	TOTAL 464930		MEAN 1274		MAX 7410		MIN 400		CFSM 1.36 IN. 18.40			

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. Datum of gage is 544.14 ft above National Geodetic Vertical Datum of 1929 (leveling by global positioning system equipment).

REMARKS.--Estimated daily discharges: Mar. 31 to Apr. 3, Aug. 3-6. Records good, except those for periods of estimated daily discharges, which are fair. Some regulation at low flow from High Shoals powerplant.

AVERAGE DISCHARGE.--19 years (water years 1945-49, 1978-91), 233 ft³/s, 17.98 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,200 ft³/s, Jan. 6, 1946 (revised), 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)
Mar. 29	1800	*2,010	*4.33

Minimum daily discharge, 48 ft³/s, Oct. 17.

REVISIONS.--The maximum discharges reported for water years 1946 and 1949 have been revised to 11,200 ft³/s, Jan. 6, 1946, gage height, 8.90 ft, and 9,430 ft³/s, Nov. 28, 1948, gage height, 8.26 ft, superceding figures published in the report WSP 1304.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	93	97	170	667	213	600	380	151	178	147	146
2	90	100	99	150	384	807	370	272	291	146	144	168
3	85	95	112	169	293	738	280	219	260	171	142	117
4	86	73	219	130	254	648	251	201	204	123	138	72
5	93	79	229	137	231	469	253	412	174	208	135	109
6	94	132	177	130	265	360	254	1080	147	245	155	107
7	86	102	144	137	277	304	242	679	138	193	135	104
8	83	65	138	140	219	274	191	408	105	169	165	102
9	82	110	139	140	202	256	216	296	128	147	186	99
10	81	192	126	137	175	234	296	358	121	142	218	95
11	85	184	118	243	170	218	258	356	119	131	205	92
12	171	158	116	410	171	207	219	290	182	125	307	90
13	191	146	110	324	165	238	206	273	193	120	138	88
14	149	117	105	252	204	354	212	241	317	114	155	86
15	123	116	115	174	227	311	211	212	228	207	195	84
16	102	109	113	247	166	247	199	189	171	217	182	84
17	48	115	112	276	177	220	185	235	160	167	156	83
18	125	103	106	230	174	216	175	238	200	318	169	122
19	90	104	127	201	174	214	209	284	188	351	127	174
20	109	104	138	315	176	197	326	331	315	269	157	183
21	92	100	159	277	253	188	271	347	202	213	226	177
22	106	111	165	228	748	185	221	269	421	162	229	166
23	151	103	156	202	803	183	176	236	360	169	218	151
24	189	110	209	204	505	182	176	215	227	128	217	122
25	161	101	231	270	356	172	174	198	193	166	218	128
26	134	109	184	239	286	165	170	190	178	141	239	152
27	124	99	162	214	252	161	152	175	289	139	261	123
28	117	107	154	206	227	199	328	208	348	133	240	101
29	92	102	149	176	---	933	382	212	280	132	171	92
30	108	105	143	596	---	1530	469	181	222	131	221	87
31	94	---	154	905	---	980	---	163	---	135	146	---
TOTAL	3436	3344	4506	7629	8201	11603	7672	9348	6512	5390	5742	3504
MEAN	111	111	145	246	293	374	256	302	217	174	185	117
MAX	191	192	231	905	803	1530	600	1080	421	351	307	183
MIN	48	65	97	130	165	161	152	163	105	114	127	72
CFSM	.63	.63	.83	1.40	1.66	2.13	1.45	1.71	1.23	.99	1.05	.66
IN.	.73	.71	.95	1.61	1.73	2.45	1.62	1.98	1.38	1.14	1.21	.74

CAL YR 1990	TOTAL 103310	MEAN 283	MAX 6170	MIN 39	CFSM 1.61	IN. 21.84
WTR YR 1991	TOTAL 76887	MEAN 211	MAX 1530	MIN 48	CFSM 1.20	IN. 16.25

ALTAMAHA RIVER BASIN

02219000 APALACHEE RIVER NEAR BOSTWICK, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1990 to current year.

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 1990 TO SEPTEMBER 1991

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...	0810	32	58	59	6.8	7.0	10.0	6.5	9.9	88
JAN 16...	0950	305	54	51	7.1	6.9	9.0	15.5	11.4	101
MAR 13...	0730	221	53	49	7.1	7.1	12.0	16.0	11.8	113
MAY 14...	1300	241	53	49	7.1	6.9	21.5	30.0	7.0	82
JUL 17...	1030	206	53	51	7.0	6.8	23.0	25.0	7.9	94
SEP 19...	1130	186	66	59	6.7	6.9	24.5	33.0	6.4	78

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 14...	8.0	1.3	190	16	0.290	<0.030	0.040	3.9
JAN 16...	14	0.8	50	12	0.650	0.070	0.050	3.3
MAR 13...	19	0.4	75	19	0.620	<0.030	0.130	7.3
MAY 14...	22	0.6	210	14	0.480	<0.030	0.130	3.1
JUL 17...	24	1.1	790	15	0.460	0.050	0.090	3.4
SEP 19...	20	1.0	330	18	0.410	<0.030	0.070	3.7

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. Datum of gage is 356.03 ft above National Geodetic Vertical Datum of 1929 (leveling by global positioning system equipment). 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: Oct. 21-Nov. 14. Records good, except those for the period of estimated daily discharge, which are fair.

AVERAGE DISCHARGE.--14 years, 218 ft³/s, 11.30 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)
Jan. 30	1700	2,330	12.94	Apr. 19	2100	2,480	13.35
Mar. 2	0600	2,880	14.34	May 6	1600	*3,230	*15.19
Mar. 30	1600	2,270	12.78				

Minimum daily discharge, 16 ft³/s, Oct. 1, 4.

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	16	41	55	113	1140	256	643	1100	172	180	145	124
2	17	41	54	122	546	2180	430	572	721	146	132	112
3	17	40	58	109	389	2210	337	391	1210	274	133	104
4	16	39	88	101	305	1780	287	581	439	408	116	94
5	18	38	126	97	253	960	438	1240	262	471	105	87
6	20	40	97	95	240	595	509	2650	204	559	96	83
7	21	44	80	97	272	482	361	2690	171	314	92	80
8	20	50	80	107	227	410	284	1160	147	220	96	78
9	19	44	79	107	197	338	266	620	133	198	100	75
10	18	64	73	100	180	272	351	520	120	165	102	71
11	20	120	69	147	166	234	322	433	111	145	112	70
12	51	105	67	355	153	217	241	372	104	132	140	65
13	86	84	65	390	149	237	214	338	102	121	143	63
14	75	62	65	257	177	290	203	311	115	111	145	60
15	52	61	66	191	172	239	197	267	228	117	194	59
16	41	58	68	250	144	204	186	225	248	200	167	56
17	36	56	69	249	134	188	170	197	155	221	133	56
18	38	55	69	190	136	192	155	240	134	380	114	56
19	45	55	113	225	137	196	1010	666	147	311	106	58
20	42	54	156	562	137	180	1340	933	301	256	100	56
21	40	54	206	435	165	176	686	401	357	226	91	54
22	40	54	179	282	177	168	410	303	267	173	85	52
23	90	55	146	214	580	162	302	258	279	150	81	50
24	240	56	141	356	897	154	254	228	353	142	77	49
25	120	55	141	682	548	145	215	198	272	122	85	61
26	84	55	119	452	361	141	192	183	278	278	321	120
27	64	55	104	307	271	137	194	232	340	569	594	121
28	56	55	97	252	220	139	698	625	316	249	257	85
29	48	56	95	224	---	478	1020	351	290	184	169	69
30	43	56	95	1200	---	2050	1260	251	224	156	144	63
31	42	---	101	1730	---	1500	---	188	---	140	146	---
TOTAL	1535	1702	3021	9998	8473	16910	13175	18724	8200	7318	4521	2231
MEAN	49.5	56.7	97.5	323	303	545	439	604	273	236	146	74.4
MAX	240	120	206	1730	1140	2210	1340	2690	1210	569	594	124
MIN	16	38	54	95	134	137	155	183	102	111	77	49
CFSM	.19	.22	.37	1.23	1.16	2.08	1.68	2.31	1.04	.90	.56	.28
IN.	.22	.24	.43	1.42	1.20	2.40	1.87	2.66	1.16	1.04	.64	.32
CAL YR 1990	TOTAL 93502		MEAN 256		MAX 10800	MIN 14		CFSM .98		IN 13.28		
WTR YR 1991	TOTAL 95808		MEAN 262		MAX 2690	MIN 16		CFSM 1.00		IN 13.60		

ALTAMAHA RIVER BASIN

02220900 LITTLE RIVER NEAR EATONTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1990 to current year.

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 1990 TO SEPTEMBER 1991

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...	0945	68	91	93	7.5	7.3	10.5	14.5	10.4	93
JAN 15...	1010	190	79	77	7.2	7.1	6.0	12.0	11.9	97
MAR 12...	1035	218	74	71	7.4	7.2	11.5	18.5	9.4	87
MAY 15...	0910	274	77	74	7.3	7.2	25.0	24.5	8.6	106
AUG 14...	1045	138	86	81	7.5	7.3	23.0	22.5	8.3	98
SEP 12...	0845	66	93	88	7.4	7.5	22.5	26.0	7.6	89

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)
NOV 14...	10	1.5	70	28	0.150	<0.030	0.060	6.8
JAN 15...	22	1.5	1000	21	0.450	0.060	0.120	5.6
MAR 12...	18	0.3	110	22	0.360	<0.030	0.130	2.9
MAY 15...	23	1.2	330	25	0.380	<0.030	0.120	3.1
AUG 14...	26	1.2	410	29	0.430	0.060	0.110	5.0
SEP 12...	21	0.2	460	34	0.330	<0.030	0.100	2.0

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 300 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.

AGE.—Water-stage recorder. Datum of gage is 375.09 ft above National Geodetic Vertical Datum of 1929 (leveling by global positioning system equipment).

REMARKS.—Estimated daily discharges: Oct. 30–Nov. 6. Records good, except those for the period of Oct. 30–Nov. 6, which are fair. Some diurnal fluctuation at low flow.

AVERAGE DISCHARGE.—14 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)
Mar. 3	1500	1,810	4.71	May 7	0830	*2,000	*4.95

Minimum daily discharge, 7.8 ft³/s, Oct. 1.

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	7.8	25	36	63	717	151	376	440	169	81	84	54
2	8.4	25	35	85	302	1520	258	279	222	70	82	50
3	8.4	24	38	75	229	1490	220	227	137	65	71	50
4	9.1	24	53	65	196	1160	201	386	107	78	64	47
5	12	25	62	61	168	734	303	1220	93	224	58	45
6	18	28	46	59	162	372	435	1370	87	300	54	42
7	15	31	43	60	200	276	268	1760	80	142	51	42
8	12	31	46	67	162	237	230	711	74	104	51	42
9	11	34	47	66	140	211	214	358	71	97	52	40
10	10	74	43	62	140	189	251	287	68	84	51	39
11	12	73	42	84	137	168	219	228	65	74	71	36
12	28	46	41	181	121	154	189	202	65	69	77	35
13	41	40	41	184	107	158	182	181	68	63	66	34
14	31	37	41	125	128	178	170	162	74	57	78	33
15	23	35	42	101	116	149	165	147	129	55	131	34
16	20	35	42	134	96	138	155	133	119	86	90	32
17	19	35	43	148	93	134	140	122	83	139	71	32
18	22	35	43	109	95	140	130	132	76	299	61	32
19	27	34	60	124	95	138	1140	304	84	185	62	37
20	28	34	93	310	94	126	1080	362	111	170	57	33
21	23	35	138	232	112	121	520	194	119	150	50	31
22	37	35	91	162	111	120	274	162	90	105	47	30
23	126	36	74	125	245	120	229	145	88	88	46	30
24	92	36	81	183	298	116	210	133	80	77	43	30
25	48	36	75	394	214	112	184	124	109	68	43	36
26	36	36	62	243	182	109	168	117	122	73	95	72
27	31	36	58	186	153	108	173	141	132	116	172	51
28	29	36	55	154	136	110	498	196	110	85	87	40
29	28	37	54	135	—	273	754	141	116	126	68	37
30	26	36	54	656	—	1180	831	120	94	97	60	35
31	26	—	57	1090	—	1080	—	102	—	81	58	—
TOTAL	864.7	1084	1736	5723	4949	11272	10167	10586	3042	3508	2151	1181
MEAN	27.9	36.1	56.0	185	177	364	339	341	101	113	69.4	39.4
MAX	126	74	138	1090	717	1520	1140	1760	222	300	172	72
MIN	7.8	24	35	59	93	108	130	102	65	55	43	30
CFSM	.15	.19	.30	.97	.93	1.92	1.78	1.80	.53	.60	.37	.21
IN.	.17	.21	.34	1.12	.97	2.21	1.99	2.07	.60	.69	.42	.23
CAL YR 1990	TOTAL 60145.5	MEAN 165	MAX 6640	MIN 7.6	CFSM .87	IN 11.78						
WTR YR 1991	TOTAL 56263.7	MEAN 154	MAX 1760	MIN 7.8	CFSM .81	IN 11.02						

ALTAMAHA RIVER BASIN

02221525 MURDER CREEK BELOW EATONTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1990 to current year.

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 1990 TO SEPTEMBER 1991

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...	1020	37	85	84	7.5	7.2	10.5	15.0	9.2	83
JAN 15...	1050	99	75	73	7.3	7.1	6.0	12.0	11.8	96
MAR 12...	0945	156	70	61	7.1	6.6	11.0	17.0	9.5	87
MAY 15...	0940	147	74	69	7.2	7.2	20.5	27.5	8.3	94
JUL 18...	1530	289	73	71	--	7.0	23.0	31.0	8.0	94
SEP 12...	0745	35	90	83	7.2	7.2	22.0	23.5	7.1	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)
NOV 14...	11	1.4	50	30	0.080	<0.030	0.130	4.9
JAN 15...	21	1.2	1100	23	0.310	0.050	0.090	5.1
MAR 12...	21	0.3	230	23	0.270	<0.030	0.080	2.0
MAY 15...	32	1.3	230	26	0.250	<0.030	0.120	2.8
JUL 18...	88	0.8	4900	25	0.320	0.060	0.280	7.1
SEP 12...	27	0.6	120	34	0.160	<0.030	0.100	1.3

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.--No estimated daily discharges. Records good. 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.--88 years, 3,274 ft³/s, 15.07 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, 38,200 ft³/s, Mar. 3, gage height, 26.02; minimum daily discharge, 400 ft³/s, Sept. 14, 28, 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	454	2660	509	499	11700	4630	11900	7070	3010	3880	2960	405	
2	977	3050	711	871	7990	8340	7860	7850	3120	3610	2380	1960	
3	497	498	2200	937	7940	26200	7820	6750	4640	3410	1760	1750	
4	492	482	2680	1710	7910	19400	7830	2800	3480	2820	1350	1860	
5	460	4010	2480	531	7880	9790	8370	6660	1860	3250	1250	2500	
6	460	4610	2490	503	7590	7940	7370	7540	2270	3050	645	2070	
7	465	5200	1800	501	4000	7910	3370	7900	1690	2500	417	1240	
8	465	6220	508	878	2520	7870	4570	7910	989	3550	944	904	
9	525	6290	723	480	2760	7840	4870	7930	442	2760	2740	401	
10	773	4760	1280	1920	1250	5400	5550	7920	1240	2280	1980	408	
11	2370	3760	1610	3100	2150	3350	5040	7890	1510	2550	2200	406	
12	3930	1990	2050	3490	3310	2940	4900	7940	1180	2850	2880	1040	
13	2700	1390	1260	3020	4270	2910	4610	8250	1640	714	2480	403	
14	478	1140	984	4090	2400	4840	4080	7930	2320	675	1750	400	
15	827	1230	486	2950	2240	5570	3240	3290	2790	708	2870	405	
16	479	2160	487	4570	1800	3910	3340	2600	2350	2750	1750	1270	
17	722	504	482	4870	480	2030	2170	2910	2620	4150	428	1070	
18	1250	497	481	4530	2440	2240	3270	3980	3360	4630	426	960	
19	971	495	487	3400	2020	4370	3820	4960	4940	4470	2210	1010	
20	470	471	531	4200	2590	1850	5380	5260	4540	3460	1720	891	
21	477	1080	511	5490	2410	1750	5120	5200	4140	3070	1350	414	
22	573	1160	501	5310	4270	2180	6710	6180	4800	3330	981	425	
23	5260	511	1890	3040	5320	1240	5250	2920	4100	3180	1180	415	
24	6320	507	575	4470	7830	1240	2760	3530	2390	2740	421	1160	
25	2430	510	491	4530	5950	2540	4000	2250	2600	2250	427	409	
26	3800	514	489	4220	5720	3670	2900	2200	3230	426	5120	409	
27	478	991	488	4010	4250	2840	2550	2740	3820	1540	5270	404	
28	2030	1450	490	4850	5170	3370	3930	4430	4510	1090	5630	400	
29	2250	2050	492	4750	---	5260	5380	3290	3850	3300	4810	400	
30	804	500	489	7640	---	9260	6750	4400	4140	3030	2540	401	
31	971	---	497	19200	---	17200	---	3640	---	2760	408	---	
TOTAL	45158	60690	31152	114560	126160	189880	154710	166120	87571	84783	63277	26190	
MEAN	1457	2023	1005	3695	4506	6125	5157	5359	2919	2735	2041	873	
MAX	6320	6290	2680	19200	11700	26200	11900	8250	4940	4630	5630	2500	
MIN	454	471	481	480	480	1240	2170	2200	442	426	408	400	
MEAN†	1490	990	1660	4621	3802	6706	4870	5164	3094	2627	1992	873	
CFSM†	.50	.34	.56	1.57	1.29	2.27	1.65	1.75	1.05	.89	.68	.30	
IN†	.58	.38	.65	1.81	1.34	2.62	1.84	2.02	1.17	1.03	.78	.33	
CAL YR 1990	TOTAL 1225484		MEAN 3357		MAX 67800		MIN 351		MEAN† 3307		CFSM† 1.12		IN† 15.22
WTR YR 1991	TOTAL 1150251		MEAN 3151		MAX 26200		MIN 400		MEAN† 3152		CFSM† 1.07		IN† 14.51

†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 1990 TO SEPTEMBER 1991

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...	1100	7550	70	68	7.3	7.2	23.0	20.5	6.6	78
NOV 14...	1320	393	72	69	7.3	7.2	18.0	22.0	8.1	85
DEC 11...	0830	4420	74	70	7.1	7.1	13.5	1.0	8.5	82
JAN 15...	1220	5750	75	71	7.3	7.1	12.0	17.0	9.4	88
FEB 12...	0750	2960	75	70	7.4	7.0	11.0	0.0	10.0	91
MAR 12...	0735	968	87	74	6.8	6.6	12.0	6.0	7.3	68
APR 09...	1050	6620	65	61	7.0	6.9	17.5	23.0	8.0	85
MAY 15...	1200	495	64	62	6.8	6.5	23.5	34.0	7.0	83
JUN 11...	0630	449	64	59	7.0	6.9	24.0	16.5	5.2	62
JUL 18...	1450	6840	69	65	6.8	6.9	29.0	28.0	4.5	59
AUG 14...	0920	449	66	62	6.9	6.9	28.0	22.5	6.2	80
SEP 12...	0640	403	70	65	7.2	7.0	27.0	21.0	5.9	75

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 24...	6.0	0.9	70	21	0.070	<0.030	0.080	9.5	280	23
NOV 14...	5.0	0.8	20	21	0.110	<0.030	0.060	4.7	190	<10
DEC 11...	8.0	0.1	40	22	0.100	<0.030	0.040	3.4	250	25
JAN 15...	12	0.5	50	21	0.160	<0.030	0.030	4.9	520	30
FEB 12...	18	0.5	310	19	0.260	<0.030	0.090	4.0	--	--
MAR 12...	23	0.5	50	23	0.340	<0.030	0.120	2.8	990	54
APR 09...	23	0.6	50	16	0.400	0.070	0.200	2.4	860	17
MAY 15...	17	2.2	40	18	0.300	0.050	0.090	2.6	740	29
JUN 11...	7.0	0.2	330	20	0.230	0.040	0.090	4.9	--	--
JUL 18...	5.0	0.4	220	21	0.180	0.060	0.080	4.3	320	140
AUG 14...	3.0	1.1	330	20	0.120	0.100	0.080	3.7	290	110
SEP 12...	3.0	0.2	50	21	0.120	<0.030	0.060	2.0	280	58

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 station 02223000, Oconee River at Milledgeville, Ga.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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...	1130	4300	72	69	7.2	7.3	23.0	21.0	6.8	80
NOV 14...	1345	397	78	76	7.1	7.1	17.0	23.5	6.9	71
DEC 11...	0745	656	80	73	7.1	7.2	13.5	1.0	8.5	82
JAN 15...	1150	486	79	73	—	7.1	11.5	16.5	10.0	93
FEB 12...	0715	536	80	74	7.1	6.9	11.0	4.0	10.3	94
MAR 12...	0700	675	80	69	7.1	6.8	12.0	5.0	10.0	93
APR 09...	1030	553	66	64	6.8	6.8	18.5	23.0	8.3	89
MAY 15...	1135	575	73	71	6.8	6.6	22.5	34.0	6.2	72
JUN 11...	0530	472	75	67	7.0	6.8	24.0	16.0	4.8	57
JUL 18...	1420	6680	69	66	7.0	6.8	28.5	29.0	4.9	63
AUG 14...	0845	432	76	69	7.0	6.9	28.5	22.5	6.1	79
SEP 12...	0600	410	86	79	7.1	7.1	27.0	21.0	5.6	71

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 24...	8.0	0.8	40	22	0.080	<0.030	0.080	5.2
NOV 14...	9.0	1.0	130	21	E0.170	<0.030	0.050	9.8
DEC 11...	7.0	0.3	50	22	0.110	0.090	0.040	3.9
JAN 15...	15	0.9	190	22	0.170	<0.030	0.040	5.1
FEB 12...	16	0.9	20	20	0.320	<0.030	0.110	3.2
MAR 12...	23	0.5	130	18	0.410	0.040	0.080	3.4
APR 09...	25	0.6	310	17	0.370	0.060	0.120	3.3
MAY 15...	20	1.4	490	20	0.320	0.060	0.030	3.2
JUN 11...	9.0	0.5	50	20	0.290	0.040	0.130	3.1
JUL 18...	9.0	0.5	790	22	0.200	0.050	0.080	4.0
AUG 14...	6.0	0.9	1600	21	0.180	0.080	0.090	4.1
SEP 12...	2.0	0.5	110	23	0.290	<0.030	0.100	2.3

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 1990 TO SEPTEMBER 1991

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 11...	1315	980	139	144	7.0	7.0	8.5	22.0	6.5	55
MAR 12...	1225	5800	69	69	7.2	7.0	10.0	23.5	6.8	60
JUN 11...	1135	1200	102	104	6.8	7.0	22.0	30.5	4.8	55
AUG 27...	1230	7200	57	57	7.2	7.0	25.0	33.5	5.6	68

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 11...	20	6.0	0.4	110	17	0.310	0.170	0.160	4.4
MAR 12...	70	40	0.8	120	16	0.340	<0.030	0.130	4.6
JUN 11...	80	54	0.5	80	23	0.390	<0.030	0.110	3.5
AUG 27...	80	160	1.1	3300	18	0.150	<0.030	0.080	12

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.--No estimated daily discharges. Records good. 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.--94 years (water years 1898-1991), 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)
Feb. 3	2400	21,100	20.05	Mar. 7	0700	*28,700	*22.87

Minimum daily discharge, 524 ft³/s, Oct. 1.

ALTAMAHA RIVER BASIN

02223500 OCONEE RIVER AT DUBLIN, 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	524	1410	1710	1240	18500	6150	13900	10200	4550	4170	3860	3720
2	571	1810	1120	1420	19200	10300	15200	10900	3980	4170	3960	2050
3	578	2800	1030	1480	20700	14700	16200	11000	4290	4180	3880	1830
4	876	2370	1260	1670	20700	17700	16200	10900	4290	3830	3260	2400
5	676	1200	2800	1890	18800	20500	15100	9230	5080	3540	2520	2420
6	612	1660	2620	2130	16400	26400	13700	8080	3890	3980	2010	2520
7	572	3860	2670	1480	14700	28300	12900	8760	3070	3880	1780	2680
8	547	4220	2830	1330	13400	25100	12700	9330	2980	3620	1330	2330
9	538	5330	1970	1280	10300	20500	12200	9710	2270	3490	1160	1790
10	564	6380	1390	1480	6780	16800	10800	10200	1670	3540	1780	1460
11	669	6370	1350	1620	5090	14300	9600	10600	1280	2990	2710	1060
12	4060	4820	1830	3650	3940	11100	8870	10900	1680	2820	2650	938
13	6630	3840	2220	4810	4390	7090	8220	10800	1810	3110	3250	902
14	5120	2890	2130	4890	5090	6240	7400	10900	1830	2420	3740	1220
15	3370	2010	1650	4840	4840	6460	6870	11200	2130	1380	5140	912
16	1720	1890	1370	5070	3890	7430	5940	10900	2800	1840	5550	819
17	1450	2020	1120	5840	3620	7210	5540	7490	2990	4050	5040	813
18	1140	2110	1080	6330	2960	5610	4640	4920	2860	6670	3930	1380
19	1180	1230	1110	6150	2660	4310	4720	4710	3010	7070	2380	1390
20	1420	1060	1220	6110	3400	4900	6860	5010	4630	6950	1980	1270
21	1280	1010	1450	6030	3450	4940	7950	6020	4530	6240	2600	1250
22	989	1110	1670	6910	3650	3610	8100	6020	4300	4720	2280	1170
23	1740	1360	1650	6930	4200	3530	8470	6690	4690	4050	1900	855
24	4160	1360	1740	6060	5890	3250	8380	5180	4540	3790	1650	760
25	6580	1030	2440	6640	7850	2790	6270	4240	3690	3570	1680	818
26	5590	947	1620	7510	8630	2850	5140	3840	3360	3120	2340	1270
27	4580	923	1380	7310	8100	3980	4850	3530	3570	2440	5670	872
28	3350	926	1280	6780	6790	3950	4390	3520	4190	1410	8730	759
29	1760	1330	1230	6760	---	4250	6930	4460	4480	1960	8800	717
30	2550	2100	1190	10400	---	9300	8820	4480	4840	2420	8550	690
31	2350	---	1190	18000	---	12400	---	4530	---	3800	6270	---
TOTAL	67746	71376	51320	154040	247920	315950	276860	238250	103280	115220	112380	43065
MEAN	2185	2379	1655	4969	8854	10190	9229	7685	3443	3717	3625	1436
MAX	6630	6380	2830	18000	20700	28300	16200	11200	5080	7070	8800	3720
MIN	524	923	1030	1240	2660	2790	4390	3520	1280	1380	1160	690
CAL YR 1990	TOTAL 1477165		MEAN 4047		MAX 44600		MIN 508		MEAN† 3997		CFSM† .91	
WTR YR 1991	TOTAL 1797407		MEAN 4924		MAX 28300		MIN 524		MEAN† 4926		CFSM† 1.12	
											IN† 12.34	
											IN† 15.20	

†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 1990 TO SEPTEMBER 1991

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 16...	1310	1620	174	174	6.7	6.9	22.5	30.5	7.1	82
NOV 13...	1320	3550	95	93	7.2	7.0	15.0	25.0	5.9	58
DEC 11...	1440	1310	141	143	7.2	7.1	9.0	22.5	5.8	50
JAN 22...	1335	6930	84	84	6.8	6.9	9.0	16.0	6.2	54
FEB 12...	1325	3760	86	84	6.8	6.7	10.0	21.0	7.1	63
MAR 12...	1340	10900	70	70	6.7	6.9	11.0	24.0	6.3	57
APR 03...	1145	16300	59	59	6.9	7.1	14.0	24.5	5.4	52
MAY 14...	1230	10800	66	65	6.8	6.9	22.0	32.0	4.0	46
JUN 11...	1255	1190	120	122	6.9	7.1	25.0	33.0	5.9	71
JUL 30...	1445	2160	87	94	7.3	7.1	26.5	35.0	6.3	79
AUG 27...	1420	6380	77	75	7.1	7.0	25.0	30.5	5.6	68
SEP 17...	1325	792	147	146	7.5	7.2	28.5	35.0	6.8	88

ALTAMAHA RIVER BASIN

02223600 OCONEE RIVER AT I-16, NEAR DUBLIN, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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- PENDE (MG/L)
OCT 16...	40	18	--	0.6	330	13	24
NOV 13...	20	18	--	0.8	80	18	10
DEC 11...	10	7.0	--	0.7	20	22	6
JAN 22...	40	38	--	0.2	330	16	43
FEB 12...	45	25	--	1.0	110	14	23
MAR 12...	80	32	--	0.8	330	15	21
APR 03...	80	31	--	1.1	110	18	16
MAY 14...	85	56	--	1.0	1400	21	54
JUN 11...	100	40	--	0.9	170	26	15
JUL 30...	65	17	12	0.4	4900	23	19
AUG 27...	100	74	32	1.1	2200	16	111
SEP 17...	15	6.0	25	1.2	110	29	3

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 16...	0.330	0.160	--	--	--	0.120	7.1
NOV 13...	0.140	0.100	--	--	--	0.100	6.4
DEC 11...	0.320	0.330	--	--	--	0.120	5.1
JAN 22...	0.190	0.050	--	--	--	0.080	5.4
FEB 12...	0.230	0.030	--	--	--	0.060	5.0
MAR 12...	0.250	<0.030	--	--	--	0.090	5.1
APR 03...	0.250	0.090	--	--	--	0.090	6.2
MAY 14...	0.300	0.060	--	--	--	0.220	6.6
JUN 11...	0.390	0.060	--	--	--	0.140	3.8
JUL 30...	0.290	0.050	0.35	0.40	0.69	0.120	3.5
AUG 27...	0.120	<0.030	--	0.20	0.32	0.090	13
SEP 17...	0.280	0.080	0.22	0.30	0.58	0.150	5.3

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 to current year.

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-discharge records for water years 1938-1956 are published in reports of the U.S. Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 12...	0605	1750	133	133	7.1	7.0	9.0	9.5	7.8	67
MAR 12...	1620	20800	64	64	6.9	6.7	12.0	22.5	7.1	66
JUN 11...	1515	2120	106	108	6.9	7.0	26.0	34.5	5.5	68
JUL 30...	1555	2350	115	113	7.2	6.9	28.5	32.0	6.3	82
SEP 17...	1545	1230	138	136	7.2	7.2	30.0	34.0	5.8	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)
DEC 12...	40	56	2.7	--	23	0.370	0.270	0.240	7.2
MAR 12...	95	25	0.9	20	14	0.190	<0.030	0.080	4.6
JUN 11...	60	32	0.7	50	29	0.370	<0.030	0.110	4.1
JUL 30...	40	24	0.6	130	29	0.310	0.030	0.160	5.0
SEP 17...	20	11	0.9	50	35	0.340	0.040	0.130	5.1

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.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--22 years (water years 1950, 1971-91), 11,190 ft³/s, 13.10 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)
Feb. 7	2100	50,500	17.75	Apr. 10	2000	28,100	14.78
Mar. 10	1100	*62,500	*19.04				

Minimum daily discharge, 2,330 ft³/s, Oct. 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2450	6030	3590	5230	31000	14400	14900	16200	10600	9300	13300	17100
2	2420	5580	4070	5430	33900	16000	16200	16200	10800	9600	17900	17200
3	2380	4850	4250	5800	37000	21800	17300	16100	10900	9830	20600	16000
4	2350	4650	3890	5960	42000	30800	18500	16100	10700	9640	21100	12800
5	2350	5180	3690	6050	47400	41900	20400	16400	11200	9750	19900	10000
6	2380	5190	3710	6200	49600	51100	23100	17100	11900	9840	17700	8860
7	2420	4470	4430	6470	50100	57300	25100	17900	12700	9860	15500	8140
8	2370	4260	4980	6650	50200	60200	26600	18800	12700	10300	13300	7880
9	2330	5510	5260	6330	49400	61300	27600	19200	11400	10800	11100	7690
10	2480	6870	5520	5940	47800	62000	28000	19000	10200	10700	9070	7320
11	2700	8190	5190	6110	45400	61400	27900	18800	9100	10500	7940	6660
12	3140	9110	4700	8260	42200	59200	27500	19300	7900	10500	8440	5910
13	4050	9590	4590	10500	37300	55900	26600	19600	6540	9740	10200	5190
14	6860	9340	4710	12300	30800	51800	25300	19700	5700	9200	9940	4670
15	8680	8450	4880	13700	25900	46900	23700	20100	5480	9360	10000	4340
16	9620	7300	4860	14500	22400	40700	22400	20700	5470	10200	11000	4180
17	8940	6280	4600	14700	20100	33400	21700	21700	5630	11900	12000	3930
18	6820	5720	4360	15100	18100	28300	21200	22900	5980	13300	12700	3640
19	5380	5450	4220	15600	16100	25600	19800	24000	6330	14700	13300	3490
20	4550	5210	4570	17300	14500	23600	18300	24300	6400	15900	13500	3630
21	4110	4560	5310	19400	13100	21800	16300	22700	6490	16400	12600	3740
22	4170	4130	5550	20800	12300	19900	15500	20600	7280	16700	12000	3650
23	4220	3910	5470	21600	11800	18600	15400	19200	7720	16800	11900	3530
24	4160	3800	5560	22100	11400	17000	15600	18000	7960	16300	11200	3450
25	4630	3870	5740	23100	11500	15400	15800	16700	8430	15000	9980	3360
26	6280	3950	5980	24200	12100	14200	16100	15300	8870	14000	10600	3260
27	8120	3880	6350	24700	12900	12900	16400	13900	8600	13400	12500	3220
28	9150	3730	6060	25300	13700	12000	16300	12800	8380	13000	13400	3320
29	9110	3580	5640	25800	---	11900	16500	11900	8500	12500	13800	3210
30	8240	3490	5380	27500	---	12600	16400	11200	8890	12000	15000	3110
31	6650	---	5270	29300	---	13400	---	10900	---	12000	16300	---
TOTAL	153510	166130	152380	451930	810000	1013300	612400	557300	258750	373020	407770	192480
MEAN	4952	5538	4915	14580	28930	32690	20410	17980	8625	12030	13150	6416
MAX	9620	9590	6350	29300	50200	62000	28000	24300	12700	16800	21100	17200
MIN	2330	3490	3590	5230	11400	11900	14900	10900	5470	9200	7940	3110
CFSM	.43	.48	.42	1.26	2.49	2.82	1.76	1.55	.74	1.04	1.13	.55
IN.	.49	.53	.49	1.45	2.60	3.25	1.96	1.79	.83	1.20	1.31	.62

CAL YR 1990 TOTAL 3905730 MEAN 10700 MAX 65000 MIN 1840 CFSM .92 IN. 12.53
WTR YR 1991 TOTAL 5148970 MEAN 14110 MAX 62000 MIN 2330 CFSM 1.22 IN. 16.51

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 1990 TO SEPTEMBER 1991

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...	0730	9320	108	108	6.9	6.8	22.5	21.0	6.1	70
NOV										
14...	0810	9450	99	100	7.0	7.1	13.5	10.0	6.8	64
DEC										
12...	0920	4700	124	126	--	7.1	9.5	11.0	8.3	72
JAN										
23...	0820	21500	67	68	6.8	6.4	7.0	4.0	8.9	73
FEB										
12...	0805	42600	93	90	6.9	6.8	9.0	13.0	6.9	60
MAR										
13...	0920	5620	98	99	7.2	7.1	13.0	16.0	6.4	61
APR										
04...	0640	18200	69	66	7.1	7.0	14.5	17.0	5.6	54
MAY										
15...	0715	20000	72	73	7.0	6.7	24.5	24.0	5.4	65
JUN										
12...	0705	8170	99	101	7.2	7.0	25.0	23.5	4.9	59
JUL										
31...	0640	12000	90	91	7.1	7.0	27.0	25.0	6.4	81
AUG										
28...	0820	13400	73	71	6.8	6.7	26.0	26.0	5.2	64
SEP										
18...	0650	3690	136	134	7.4	7.3	27.5	24.0	5.3	67

ALTAMAHA RIVER BASIN

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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...	70	29	1.2	50	17	0.320	0.040	0.130	8.5
NOV 14...	30	26	0.8	--	23	0.320	0.040	0.140	10
DEC 12...	30	8.0	1.4	--	29	0.410	0.050	0.090	5.8
JAN 23...	95	24	1.5	490	12	0.180	<0.030	0.100	12
FEB 12...	90	23	1.1	50	26	0.080	<0.030	0.100	12
MAR 13...	100	27	0.7	20	36	0.040	0.160	0.040	7.7
APR 04...	130	27	1.2	130	17	0.220	0.050	0.100	7.7
MAY 15...	100	23	0.9	40	22	0.240	<0.030	0.110	6.2
JUN 12...	90	27	0.5	<20	30	0.410	<0.030	0.110	5.8
JUL 31...	70	12	0.5	220	29	0.300	0.050	0.090	7.4
AUG 28...	90	21	0.6	--	19	0.220	<0.030	0.030	12
SEP 18...	20	16	0.5	--	40	0.570	<0.030	0.110	4.4

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.--58 years (water years, 1904-07, 1938-91), 999 ft³/s, 12.22 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)
Oct. 16	2300	16,400	20.34	July 19	0400	4,060	12.67
Feb. 3	1900	18,300	21.01	Aug. 4	0800	7,710	16.16
Mar. 7	0100	*18,500	*21.08	Aug. 18	0100	4,220	12.87
Apr. 5	2200	4,250	12.91	Aug. 28	0500	10,100	17.70

Minimum daily discharge, 20 ft³/s, Oct. 4-6, and 9.

ALTAMAHA RIVER BASIN

02225500 OHOOPEE RIVER NEAR REIDSVILLE, 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	22	1640	439	668	8180	1360	2140	2470	2010	346	2190	5610
2	21	1300	435	745	11400	1700	1980	2910	2760	305	4030	4340
3	21	1050	440	805	17500	3380	2160	2830	2450	344	6930	3400
4	20	891	452	844	15800	6110	3030	2420	1720	381	7620	2700
5	20	789	465	854	10700	9060	4080	2310	1320	349	7010	2160
6	20	716	474	890	7290	15800	3850	2350	1050	394	5700	1750
7	21	658	474	936	5440	17700	2930	2330	853	484	4340	1470
8	21	609	504	970	4630	13400	2280	2210	769	511	3170	1310
9	20	596	542	978	4250	9100	2010	2330	744	453	2240	1130
10	32	797	556	922	3940	6450	1970	2710	676	389	1610	966
11	68	982	580	965	3750	4790	2000	2750	613	416	1290	853
12	221	1060	639	1320	4170	3890	2050	2430	519	423	1300	758
13	651	1080	691	1700	4290	3360	2010	2040	427	344	1300	679
14	1020	1160	709	1910	3730	3000	1900	2070	388	278	1360	604
15	3870	1280	693	1950	3180	2780	1670	2200	529	237	1740	538
16	14300	1380	647	2100	2750	2800	1410	1840	994	439	2790	484
17	14200	1390	594	2360	2450	3000	1250	1550	928	1620	4020	435
18	9090	1260	545	2600	2230	3140	1250	1490	734	3420	4160	394
19	5540	1050	540	2600	2070	3080	1200	1470	925	3870	4120	367
20	3550	871	675	2960	1940	2930	1290	1640	1230	2950	3870	344
21	2430	744	994	3510	1820	2770	1450	1680	1270	2300	3170	321
22	1750	657	1160	3740	1720	2580	1520	1680	1080	1900	2630	298
23	1420	602	1140	3780	1660	2340	1740	1660	879	1920	2320	279
24	1320	565	1080	3910	1600	2110	2110	1760	787	2140	1990	260
25	1340	534	1010	4320	1540	1900	2090	1670	787	2030	2090	250
26	1350	506	927	4670	1490	1720	1810	1400	781	1570	2900	253
27	1390	485	868	4610	1450	1580	1620	1230	782	1210	8100	301
28	1670	472	836	4670	1400	1470	1530	1950	692	961	9940	337
29	2240	458	792	4940	---	1390	1630	2710	504	847	8510	342
30	2390	446	740	5880	---	1710	1990	2170	404	1120	7030	333
31	2050	---	689	7090	---	2090	---	1790	---	1510	6680	---
TOTAL	72078	26028	21330	80197	132370	138490	59950	64050	29605	35461	126150	33266
MEAN	2325	868	688	2587	4728	4467	1998	2066	987	1144	4069	1109
MAX	14300	1640	1160	7090	17500	17700	4080	2910	2760	3870	9940	5610
MIN	20	446	435	668	1400	1360	1200	1230	388	237	1290	250
CFSM	2.10	.78	.62	2.33	4.26	4.02	1.80	1.86	.89	1.03	3.67	1.00
IN.	2.42	.87	.71	2.69	4.44	4.64	2.01	2.15	.99	1.19	4.23	1.11
CAL YR 1990	TOTAL	344191	MEAN	943	MAX	14300	MIN	20	CFSM	.85	IN	11.54
WTR YR 1991	TOTAL	818975	MEAN	2244	MAX	17700	MIN	20	CFSM	2.02	IN	27.45

ALTAMAHA RIVER BASIN

02225500 OHOOPEE RIVER NEAR REIDSVILLE, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to June 1979, September 1990 to current year.

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 1990 TO SEPTEMBER 1991

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...	1210	693	52	59	--	6.4	9.5	22.5	6.0	52
MAR 13...	0800	3420	32	31	6.0	5.9	11.5	15.0	7.9	73
JUN 13...	0630	444	44	44	6.3	6.4	23.0	22.5	5.7	66
AUG 28...	0535	10100	24	24	5.5	5.5	24.5	22.5	5.9	70

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 13...	95	5.0	1.6	230	8	0.040	0.030	0.120	11
MAR 13...	120	9.0	0.5	50	5	0.030	0.110	0.030	10
JUN 13...	120	13	0.6	20	13	0.150	0.050	0.090	13
AUG 28...	130	14	0.8	--	3	<0.020	<0.030	<0.020	19

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 1990 TO SEPTEMBER 1991

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										
07...	1145	6040	125	122	7.4	7.3	18.0	23.5	8.6	90
29...	1045	4390	130	132	7.4	7.3	16.0	20.0	5.9	59
DEC										
26...	1040	7120	105	105	7.0	7.0	12.0	13.0	7.8	71
JAN										
29...	1430	38700	58	55	6.6	6.4	9.5	16.0	9.8	85
FEB										
18...	1245	30900	65	67	6.8	6.6	8.5	20.5	7.1	60
MAR										
11...	1130	78700	43	47	7.0	6.5	12.5	15.5	6.6	61
APR										
24...	1500	19400	68	55	6.8	6.7	21.0	24.0	6.7	75
MAY										
02...	0950	20500	70	70	6.7	6.9	21.5	28.5	4.0	45
JUL										
01...	1110	9760	90	87	7.2	7.1	29.0	32.5	6.1	79
10...	1030	10900	89	80	7.3	7.0	29.0	29.5	6.4	84
AUG										
26...	1230	14800	80	77	6.9	6.7	26.5	30.5	5.4	67
SEP										
04...	1545	24100	67	63	6.7	6.6	26.0	28.0	5.5	68

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)	TANNIN AND LIGNIN (MG/L)
NOV											
07...	40	17	0.7	20	25	18	0.450	0.050	0.140	6.1	0.50
29...	40	10	0.4	40	31	13	0.520	0.040	0.080	4.8	<0.50
DEC											
26...	75	13	1.5	40	22	7	0.420	<0.030	0.130	9.1	1.2
JAN											
29...	100	16	1.1	490	7	7	0.140	0.050	0.050	16	1.6
FEB											
18...	90	18	0.4	130	13	7	0.150	<0.030	0.080	9.5	1.1
MAR											
11...	120	32	0.8	20	9	8	0.090	<0.030	0.080	11	1.4
APR											
24...	95	18	--	--	17	13	0.290	0.030	0.150	9.0	0.60
MAY											
02...	95	18	1.3	700	18	9	0.240	0.040	0.130	10	0.60
JUL											
01...	60	28	0.8	80	23	24	0.400	<0.030	0.070	6.5	0.60
10...	60	29	0.3	--	22	24	0.340	<0.030	0.100	5.8	0.60
AUG											
26...	90	15	0.4	130	21	11	0.200	<0.030	0.060	12	1.0
SEP											
04...	80	15	0.6	90	16	7	0.130	<0.030	0.070	12	1.2

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.--60 years, 13,570 ft³/s, 13.55 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)
Feb. 7	0500	63,400	13.02	Apr. 12	2100	32,100	11.16
Mar. 10	0600	*80,700	*13.79	Aug. 6	1200	32,100	11.16

Minimum discharge, 2,090 ft³/s, Oct. 6, 7, 9, 10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2370	9890	4050	6290	47100	14400	15300	19800	16000	9730	16200	24600
2	2280	8780	4050	6270	49700	15700	16000	20400	15400	9750	17100	24800
3	2220	7860	4290	6480	50700	18300	16900	20800	14700	9870	18500	24900
4	2160	6880	4610	6870	54300	22700	17800	21100	14600	10300	22600	24300
5	2120	6160	4480	7090	59800	32400	18900	21300	14800	10700	28700	22500
6	2090	5970	4260	7200	62700	46500	20500	21300	14300	10700	31900	19400
7	2100	6000	4190	7250	63200	58300	23200	21100	13900	10600	31200	15800
8	2130	5590	4570	7390	62200	71100	26700	21200	13700	10500	28400	13100
9	2110	5160	5160	7590	60700	78800	29200	21600	13700	10600	24700	11600
10	2380	5770	5590	7560	59400	80200	30500	22100	13500	10900	20900	10600
11	2830	6920	5940	7640	58000	78500	31300	22500	12700	11200	17300	9780
12	3050	8200	5960	8030	55900	76000	31900	22700	11700	11300	14400	8890
13	3620	9250	5630	9360	53000	73200	32100	22500	10200	11300	12900	7990
14	4400	10100	5410	11300	50100	69200	31700	22500	8690	11300	12600	7030
15	6230	10600	5400	12900	46300	64200	30800	22500	7520	11200	12700	6340
16	8120	10400	5510	14700	41300	58500	29400	22400	7070	13000	12800	5800
17	10200	9600	5560	16100	35900	53000	27900	22600	7110	14900	13100	5430
18	13300	8590	5390	17200	31100	47500	26500	23000	7340	15500	13800	5120
19	16500	7730	5240	18400	27400	42100	25400	23700	7660	16400	14900	4770
20	17300	7090	5210	20300	24400	37300	24700	24700	7740	17900	16100	4490
21	14500	6670	5600	21900	21800	33400	23900	26300	7950	19500	16900	4410
22	10700	6070	6490	24000	19500	30300	22600	27600	8100	20600	17300	4460
23	8180	5420	7080	26500	17600	27900	21100	27300	8390	20600	16900	4390
24	6940	4980	7310	29300	16100	25600	19600	26000	8880	20200	16000	4250
25	6380	4690	7220	32200	15000	23500	18600	24100	9060	20100	15500	4150
26	6250	4560	7120	34300	14300	21500	18300	22400	9320	19700	14800	4060
27	6880	4560	7110	36000	13900	19600	18400	20900	9730	18800	14000	3930
28	8130	4520	7230	38100	14000	17900	18700	19200	9900	17900	14800	3860
29	9240	4380	7150	38900	---	16400	18800	18000	9930	16700	17800	3920
30	10100	4200	6850	40800	---	15800	19000	17300	9820	16100	22300	3920
31	10400	---	6520	43500	---	15100	---	16600	---	16300	24500	---
TOTAL	205210	206590	176180	571420	1125400	1284900	705700	685500	323410	444150	571600	298590
MEAN	6620	6886	5683	18430	40190	41450	23520	22110	10780	14330	18440	9953
MAX	17300	10600	7310	43500	63200	80200	32100	27600	16000	20600	31900	24900
MIN	2090	4200	4050	6270	13900	14400	15300	16600	7070	9730	12600	3860
CFSM	.49	.51	.42	1.36	2.96	3.05	1.73	1.63	.79	1.05	1.36	.73
IN.	.56	.57	.48	1.56	3.08	3.51	1.93	1.88	.88	1.21	1.56	.82

CAL YR 1990 TOTAL 4578010 MEAN 12540 MAX 70000 MIN 2050 CFSM .92 IN. 12.52
WTR YR 1991 TOTAL 6598650 MEAN 18080 MAX 80200 MIN 2090 CFSM 1.33 IN. 18.05

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 1990 TO SEPTEMBER 1991

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										
07...	1130	6050	132	128	7.3	7.1	18.0	23.5	8.3	87
29...	1005	4440	199	200	7.4	7.3	16.0	20.5	5.8	58
DEC										
26...	1000	7140	142	142	7.1	7.1	12.5	12.0	6.9	64
JAN										
29...	1400	38700	67	64	6.7	6.5	9.5	16.0	9.7	84
FEB										
18...	1215	32100	72	73	6.8	6.6	9.0	20.0	7.1	61
MAR										
11...	1045	79000	43	42	6.5	6.4	12.5	13.0	6.2	57
APR										
24...	1430	19800	65	56	6.8	6.8	21.0	24.0	6.8	76
MAY										
02...	0920	20200	86	88	6.7	6.8	21.5	27.0	4.1	46
JUL										
01...	0945	9720	120	116	7.2	7.0	28.0	32.0	5.2	67
10...	1000	10800	118	104	7.3	7.1	29.0	29.5	6.0	78
AUG										
26...	1130	15100	97	95	7.0	6.8	26.5	29.5	5.1	63
SEP										
04...	1515	24500	76	67	6.7	6.6	26.0	28.0	5.4	66

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							
07...	50	17	13	0.6	70	25	19
29...	60	10	23	1.4	40	39	10
DEC							
26...	80	12	45	1.7	20	26	12
JAN							
29...	100	16	47	1.3	330	9	10
FEB							
18...	100	19	26	0.4	50	13	7
MAR							
11...	110	31	27	0.9	110	10	10
APR							
24...	100	16	29	--	--	18	12
MAY							
02...	110	18	20	0.9	80	21	10
JUL							
01...	80	26	--	0.6	<20	28	19
10...	90	27	--	0.6	--	24	19
AUG							
26...	90	15	--	0.6	50	23	9
SEP							
04...	110	15	--	1.3	35	16	7

ALTAMAHA RIVER BASIN

02226010 ALTAMAHA RIVER NEAR GARDI, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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)
NOV								
07...	0.420	0.060	0.34	0.40	0.82	0.130	6.3	0.60
29...	0.510	0.060	0.24	0.30	0.81	0.120	8.7	1.1
DEC								
26...	0.400	<0.030	--	0.40	0.80	0.140	14	1.8
JAN								
29...	0.130	0.030	0.47	0.50	0.63	0.070	18	1.7
FEB								
18...	0.140	0.200	0.40	0.60	0.74	0.080	11	1.2
MAR								
11...	0.300	<0.030	--	0.30	0.60	0.080	12	--
APR								
24...	0.280	0.070	0.43	0.50	0.78	0.170	9.7	0.50
MAY								
02...	0.250	0.070	0.53	0.60	0.85	0.120	11	0.70
JUL								
01...	0.390	0.030	--	--	--	0.070	6.8	1.0
10...	0.330	0.030	--	--	--	0.120	7.5	1.0
AUG								
26...	0.190	<0.030	--	--	--	0.080	13	1.0
SEP								
04...	0.120	<0.030	--	--	--	0.060	12	1.5

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: Jan. 18 to Feb. 28. Records good, except those nonzero discharges less than 20 ft³/s, which are fair, and those for the period of estimated daily discharges, which are fair to poor.

AVERAGE DISCHARGE.—33 years, 189 ft³/s, 12.22 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)
Mar. 5	2000	*2,140	*12.55	Apr. 11	1800	1,020	11.24

Minimum daily discharge, no flow Oct. 1-9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	3.2	.05	6.0	1800	58	230	686	261	13	410	210
2	.00	1.5	.04	20	1400	133	233	796	214	6.9	479	178
3	.00	.63	.03	23	1200	725	227	821	189	4.2	648	152
4	.00	.34	.06	23	940	1670	196	822	166	2.7	666	126
5	.00	.12	.07	27	800	2070	162	752	139	2.4	688	106
6	.00	.04	.07	30	640	2010	220	666	115	3.3	636	90
7	.00	.08	.07	28	520	1670	278	581	95	9.3	513	77
8	.00	.13	.23	27	430	1330	315	518	80	5.5	402	64
9	.00	.37	.49	24	350	1060	431	474	67	6.6	324	51
10	.44	3.5	.47	22	300	847	704	413	56	27	247	42
11	9.0	5.7	.24	83	260	673	975	347	46	45	193	35
12	25	2.2	.14	187	230	536	999	286	39	92	160	27
13	20	1.0	.17	193	200	443	884	212	32	67	141	20
14	13	.51	.18	182	180	395	731	177	32	73	126	15
15	6.7	.17	.11	195	160	357	589	175	42	138	129	9.8
16	22	.26	.08	196	140	340	479	142	29	163	120	6.6
17	33	.70	.06	163	130	326	404	142	30	258	104	4.6
18	25	.53	.09	220	110	323	355	199	36	346	87	3.3
19	16	.30	.52	300	96	322	310	129	48	498	69	3.6
20	8.0	.20	7.9	390	90	323	279	113	49	621	64	4.8
21	30	.13	16	490	84	318	264	142	47	632	57	5.2
22	69	.10	15	600	80	297	259	195	52	561	49	4.3
23	57	.14	16	760	74	259	306	266	58	512	45	2.9
24	54	.14	22	920	70	217	420	396	50	462	48	1.4
25	60	.10	22	1000	66	183	481	492	41	406	43	1.2
26	52	.05	20	1200	64	153	534	507	38	365	70	2.5
27	41	.04	16	1300	62	129	546	535	30	345	156	1.3
28	28	.04	12	1400	60	111	529	492	29	344	228	.87
29	18	.05	9.2	1500	---	100	580	419	21	360	256	.68
30	10	.05	7.3	1600	---	195	582	360	17	370	271	.35
31	5.7	---	6.0	1800	---	230	---	313	---	401	249	---
TOTAL	602.84	22.32	172.57	14909.0	10536	17803	13502	12568	2148	7139.9	7678	1246.40
MEAN	19.4	.74	5.57	481	376	574	450	405	71.6	230	248	41.5
MAX	69	5.7	22	1800	1800	2070	999	822	261	632	688	210
MIN	.00	.04	.03	6.0	60	58	162	113	17	2.4	43	.35
CFSM	.09	.00	.03	2.29	1.79	2.73	2.14	1.93	.34	1.10	1.18	.20
IN.	.11	.00	.03	2.64	1.87	3.15	2.39	2.23	.38	1.26	1.36	.22

CAL YR 1990 TOTAL 27493.87 MEAN 75.3 MAX 900 MIN .00 CFMS .36 IN. 4.87
WTR YR 1991 TOTAL 88328.03 MEAN 242 MAX 2070 MIN .00 CFMS 1.15 IN. 15.65

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

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 1990 TO SEPTEMBER 1991

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)
NOV							
07...	0915	80020	5940	127	129	7.2	7.6
07...	0925	81341	5940	127	125	7.2	7.0
29...	0800	81341	4530	196	201	7.2	7.1
DEC							
26...	0800	81341	7240	141	143	7.1	6.9
JAN							
29...	1015	80020	38300	68	67	6.7	6.8
29...	1025	81341	38300	68	66	6.7	6.3
FEB							
18...	0900	81341	36600	73	77	6.8	6.4
MAR							
11...	0900	81341	80700	58	55	6.4	6.3
APR							
24...	1030	80020	21300	67	79	6.9	7.2
24...	1040	81341	21300	67	56	6.9	6.8
MAY							
02...	0630	81341	19700	79	80	6.7	6.7
22...	0800	80020	25900	82	83	7.0	7.1
JUL							
01	0725	81341	9870	121	120	7.1	--
10...	0730	80020	10600	117	113	7.3	7.4
10...	0740	81341	10600	117	102	7.3	6.9
AUG							
26...	0725	81341	15600	95	94	6.9	6.6
SEP							
04...	0830	80020	25000	72	71	6.8	6.8
04...	0840	81341	25000	72	69	6.8	6.5

ALTAMAHA RIVER BASIN

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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- LITY WAT DIS TOT IT FIELD MG/L AS CACO3	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	ALKA- LITY WAT.DIS FET LAB CACO3 (MG/L)
NOV									
07...	80020	18.0	17.5	7.5	79	31	26	--	27
07...	81341	18.0	17.5	7.5	79	--	--	24	--
29...	81341	16.0	19.5	5.3	53	--	--	38	--
DEC									
26...	81341	12.5	8.0	6.7	63	--	--	25	--
JAN									
29...	80020	10.0	7.5	9.4	82	11	9	--	9.8
29...	81341	10.0	7.5	9.4	82	--	--	9	--
FEB									
18...	81341	8.5	15.5	7.4	62	--	--	11	--
MAR									
11...	81341	11.5	12.5	5.4	49	--	--	9	--
APR									
24...	80020	20.0	25.5	6.7	73	25	21	--	22
24...	81341	20.0	25.5	6.7	73	--	--	20	--
MAY									
02...	81341	22.5	20.0	4.1	47	--	--	21	--
22...	80020	24.0	27.0	5.4	64	29	24	--	24
JUL									
01	81341	27.5	29.0	5.1	--	--	--	--	27
10...	80020	28.0	28.0	5.9	76	33	27	--	26
10...	81341	28.0	28.0	5.9	76	--	--	27	--
AUG									
26...	81341	26.0	24.0	5.0	61	--	--	22	--
SEP									
04...	80020	25.0	25.5	5.7	69	23	19	--	18
04...	81341	25.0	25.5	5.7	69	--	--	16	--
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)	
NOV									
07...	80020	--	13	--	--	--	150	33	
07...	81341	40	14	0.6	80	--	--	--	
29...	81341	70	8.0	0.7	80	--	--	--	
DEC									
26...	81341	120	9.0	1.1	460	--	--	--	
JAN									
29...	80020	--	12	--	--	160	210	14	
29...	81341	120	14	1.2	230	--	--	--	
FEB									
18...	81341	110	18	0.4	70	--	--	--	
MAR									
11...	81341	140	19	1.1	60	--	--	--	
APR									
24...	80020	--	12	--	--	49	E85	22	
24...	81341	120	15	--	--	--	--	--	
MAY									
02...	81341	120	18	0.8	150	--	--	--	
22...	80020	--	14	--	--	46	560	22	
JUL									
01	81341	110	23	--	50	--	--	--	
10...	80020	--	17	--	--	120	400	28	
10...	81341	110	23	0.8	--	--	--	--	
AUG									
26...	81341	120	14	0.4	50	--	--	--	
SEP									
04...	80020	--	12	--	--	90	230	18	
04...	81341	120	16	0.9	80	--	--	--	

ALTAMAHA RIVER BASIN

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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)
NOV 07...	80020	9.9	1.9	11	40	0.8	2.1
JAN 29...	80020	3.9	1.1	6.4	46	0.7	1.7
APR 24...	80020	6.5	1.4	5.9	35	0.5	1.8
MAY 22...	80020	6.5	1.5	7.6	40	0.7	1.9
JUL 10...	80020	7.6	2.1	11	44	0.9	2.1
SEP 04...	80020	5.3	1.2	6.2	40	0.6	1.7

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 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)
NOV 07...	80020	92	84	1480	0.13	20	9.4	<0.10	13
JAN 29...	80020	53	43	5480	0.07	8.3	7.2	<0.10	8.6
APR 24...	80020	79	49	4540	0.11	5.2	5.4	<0.10	9.5
MAY 22...	80020	47	60	3290	0.06	7.2	7.8	0.20	10
JUL 10...	80020	90	71	2580	0.12	8.6	9.8	0.20	12
SEP 04...	80020	63	47	4250	0.09	4.8	5.7	<0.10	9.8

ALTAMAHA RIVER BASIN

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	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, NITRITE 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)
NOV												
07...	<0.010	0.300	0.300	0.020	<0.010	0.030	0.58	0.60	0.050	0.020	0.020	--
07...	--	0.310	--	0.040	--	--	--	--	0.110	--	--	8.0
29...	--	0.470	--	0.060	--	--	--	--	0.110	--	--	6.8
DEC												
26...	--	0.350	--	<0.030	--	--	--	--	0.140	--	--	14
JAN												
29...	<0.010	<0.100	<0.100	0.030	<0.010	0.020	0.57	0.60	0.040	0.020	0.010	--
29...	--	0.090	--	<0.030	--	--	--	--	0.100	--	--	16
FEB												
18...	--	0.030	--	<0.030	--	--	--	--	0.060	--	--	14
MAR												
11...	--	0.060	--	<0.030	--	--	--	--	0.050	--	--	17
APR												
24...	0.010	0.230	0.200	0.040	0.020	0.050	0.46	0.50	0.090	0.020	<0.010	--
24...	--	0.230	--	<0.030	--	--	--	--	0.120	--	--	12
MAY												
02...	--	0.210	--	0.070	--	--	--	--	0.020	--	--	13
22...	<0.010	0.200	0.220	0.050	0.020	0.070	0.75	0.80	0.080	0.040	0.020	--
JUL												
01	--	0.310	--	0.030	--	--	--	--	0.140	--	--	7.1
10...	0.010	0.280	0.250	0.040	0.030	0.020	0.56	0.60	0.080	0.020	0.020	--
10...	--	0.260	--	<0.020	--	--	--	--	0.110	--	--	7.7
AUG												
26...	--	0.140	--	<0.030	--	--	--	--	0.100	--	--	13
SEP												
04...	<0.010	0.110	0.078	0.070	0.010	0.060	0.53	0.60	0.080	0.010	<0.010	--
04...	--	0.090	--	<0.030	--	--	--	--	0.070	--	--	12

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)
NOV											
07...	80020	60	<1	39	<0.5	<1.0	1	<3	<1	290	<1
JAN											
29...	80020	20	<1	24	<0.5	<1.0	2	<3	2	330	<1
MAY											
22...	80020	250	<1	29	<0.5	<1.0	2	<3	3	1100	1
SEP											
04...	80020	70	<1	28	<0.5	<1.0	1	<3	2	660	<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)
NOV											
07...	80020	<4	39	--	<10	3	<1	<1.0	45	<6	4
JAN											
29...	80020	<4	29	<0.1	<10	1	<1	<1.0	19	<6	8
MAY											
22...	80020	<4	39	<0.1	<10	1	<1	<1.0	35	<6	5
SEP											
04...	80020	<4	48	<0.1	<10	<1	<1	<1.0	27	<6	4

ALTAMAHA RIVER BASIN

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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
NOV 07...	0920	84213	5940	18.0	23	369	90
JAN 29...	1020	84213	38300	10.0	24	2480	71
APR 24...	1035	84213	21300	20.0	14	805	91
MAY 22...	0805	84213	25900	24.0	12	839	95
JUL 10...	0735	84213	10600	28.0	19	544	83
SEP 04...	0835	84213	25000	25.0	12	810	90

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)
JAN 29...	1015	80020	38300	<0.6	0.7	2.2	0.7	2.0	0.7	0.04	0.08
APR 24...	1030	80020	21300	0.6	<0.6	2.3	<0.6	2.0	<0.6	0.06	0.07

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 1990 TO SEPTEMBER 1991

Date	Elevation (feet)*	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	524.8	84200	-	-
Oct. 31.....	520.1	67400	-16800	-273
Nov. 30.....	517.2	58600	-8800	-148
Dec. 31.....	520.6	69100	+10500	+171
CAL YR 1990	-	-	-3900	-5
Jan. 31.....	523.7	80000	+10900	+177
Feb. 28.....	521.9	73600	-6400	-115
Mar. 31.....	527.0	93000	+19400	+316
Apr. 30.....	524.5	83000	-10000	-168
May 31.....	526.6	91400	+8400	+137
June 30.....	528.7	101000	+9600	+161
July 31.....	528.9	102000	+1000	+16
Aug. 31.....	528.8	101000	-1000	-16
Sept. 30.....	528.6	100000	-1000	-17
WTR YR 1991	-	-	+15800	+22

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 1990 TO SEPTEMBER 1991

Date	Elevation (feet)*	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	434.7	354600	-	-
Oct. 31.....	434.0	342000	-12600	+205
Nov. 30.....	430.9	289500	-52500	-882
Dec. 31.....	432.9	322300	+32800	+533
CAL YR 1990	-	-	-35900	-50
Jan. 31.....	434.9	358200	+35900	+584
Feb. 28.....	433.4	331200	-27000	-486
Mar. 31.....	434.8	356400	+25200	+410
Apr. 30.....	434.6	352800	-3600	-60
May 31.....	434.1	343800	-9000	-146
June 30.....	434.7	354600	+10800	+181
July 31.....	434.5	351000	-3600	-59
Aug. 31.....	434.5	351000	0	0
Sept. 30.....	434.5	351000	0	0
WTR YR 1991	-	-	-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 1990 TO SEPTEMBER 1991

Date	Elevation (feet)*	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	337.9	302600	-	-
Oct. 31.....	338.6	313000	+ 10400	+ 169
Nov. 30.....	338.0	304000	-9000	-151
Dec. 31.....	338.5	311500	+7500	+122
CAL YR 1990	-	-	0	0
Jan. 31.....	339.9	332500	+21000	+342
Feb. 28.....	339.0	319000	-13500	-243
Mar. 31.....	339.7	329500	+ 10500	+ 171
Apr. 30.....	338.8	316000	-13500	-227
May 31.....	338.6	313000	-3000	-49
June 30.....	338.6	313000	0	0
July 31.....	338.4	310000	-3000	-49
Aug. 31.....	338.2	307000	-3000	-49
Sept. 30.....	338.2	307000	0	0
WTR YR 1991	-	-	+4400	+6

*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, 6.61 ft, July 12, 1991; minimum elevation recorded, -7.20 ft, Apr. 7, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 6.61 ft, July 12; minimum elevation recorded, -6.89 ft, Feb. 15.

GAGE HEIGHT (FEET ABOVE DATUM), 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	4.60	-3.19	5.44	-3.98	5.86	-4.27	5.83	-5.33	5.70	-3.63	5.48	-4.42
2	4.79	-3.46	5.99	-4.05	5.84	-5.06	5.84	-4.80	5.33	-4.30	5.24	-4.32
3	5.12	-3.78	6.13	-4.24	5.88	-4.97	5.35	-5.03	4.55	-4.53	4.71	-4.78
4	5.23	-4.22	6.10	-4.37	4.90	-5.48	5.41	-4.01	3.95	-3.95	3.49	-4.89
5	5.33	-5.21	5.88	-4.21	5.05	-4.85	5.16	-3.23	3.56	-3.49	3.80	-3.66
6	5.81	-4.16	5.60	-4.08	5.03	-4.04	4.54	-3.46	3.40	-3.04	3.91	-3.46
7	5.47	-4.31	5.33	-3.36	4.98	-3.18	4.01	-2.91	3.36	-2.08	2.93	-3.18
8	5.34	-4.00	5.48	-2.78	4.48	-2.84	3.95	-1.63	3.37	-2.08	3.20	-2.00
9	5.56	-2.95	5.54	-2.10	4.14	-2.53	4.25	-2.06	4.18	-2.07	4.21	-1.02
10	5.47	-1.89	4.19	-3.49	4.06	-3.10	4.13	-1.79	4.21	-2.68	3.57	-2.50
11	5.30	-2.66	4.00	-3.42	4.00	-2.70	5.02	-2.48	4.27	-3.13	3.76	-2.37
12	4.70	-2.94	3.88	-3.75	4.44	-3.31	4.34	-3.50	4.26	-3.21	3.98	-2.64
13	4.66	-2.88	4.51	-3.05	3.94	-3.84	3.81	-3.59	4.56	-3.29	4.52	-3.05
14	4.54	-3.17	4.79	-2.97	3.75	-3.84	4.39	-3.22	3.76	-4.45	4.61	-3.74
15	4.50	-3.16	4.91	-2.82	4.62	-2.92	4.68	-3.21	2.93	-6.89	5.50	-4.16
16	4.50	-3.53	4.78	-3.33	4.30	-3.74	4.53	-3.47	4.09	-6.07	5.79	-3.03
17	4.89	-3.27	4.37	-3.37	4.09	-4.10	3.93	-4.59	4.32	-4.77	5.86	-3.65
18	4.55	-3.56	4.99	-2.40	4.43	-3.34	4.14	-3.90	4.12	-4.87	5.67	-4.26
19	4.81	-3.78	4.75	-2.87	3.83	-3.80	4.48	-3.67	4.03	-4.70	5.53	-4.22
20	4.79	-2.66	4.31	-2.82	4.20	-3.51	3.72	-4.18	4.06	-4.67	5.29	-3.84
21	4.78	-2.37	4.45	-2.64	4.24	-3.34	3.67	-4.46	3.74	-4.33	5.38	-3.72
22	4.10	-2.80	4.34	-2.14	3.79	-3.42	3.67	-3.38	3.73	-3.80	4.72	-3.25
23	3.29	-2.92	3.92	-2.67	3.61	-3.50	4.11	-3.04	3.89	-3.30	4.46	-3.39
24	3.69	-2.15	3.64	-2.57	3.24	-3.81	4.23	-2.50	4.86	-3.70	3.88	-3.72
25	2.89	-2.82	3.55	-2.87	3.60	-2.80	5.03	-2.11	4.94	-4.11	4.16	-3.61
26	4.15	-1.59	3.44	-3.04	4.33	-2.40	5.37	-3.55	5.19	-4.22	4.56	-4.06
27	4.16	-1.22	3.64	-3.51	4.95	-2.94	5.56	-3.95	5.25	-4.79	4.57	-4.03
28	4.29	-2.15	4.32	-4.12	5.04	-3.80	5.76	-4.27	5.51	-4.93	4.59	-4.97
29	4.39	-2.17	4.59	-5.26	5.31	-4.26	5.77	-4.78	---	---	4.52	-5.07
30	4.69	-3.10	5.55	-5.27	5.27	-4.81	6.18	-4.68	---	---	4.83	-5.22
31	5.06	-3.15	---	---	5.21	-5.46	5.51	-5.32	---	---	5.14	-4.46
MONTH	5.81	-5.21	6.13	-5.27	5.88	-5.48	6.18	-5.33	5.70	-6.89	5.86	-5.22

BRUNSWICK RIVER BASIN

02226177 TURTLE RIVER AT GEORGIA HIGHWAY 303 AT BRUNSWICK, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[illegible]

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, 6.18 ft, July 12, 1991; minimum elevation recorded, -7.08 ft, Apr. 7, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 6.18 ft, July 12; minimum elevation recorded, -6.81 ft, Feb. 15.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.19	-3.17	5.03	-3.79	5.47	-4.07	5.44	-5.18	5.26	-3.42	5.02	-4.27
2	4.39	-3.37	5.58	-3.86	5.43	-4.95	5.43	-4.62	4.88	-4.12	4.78	-4.16
3	4.69	-3.65	5.75	-4.05	5.46	-4.81	4.90	-4.90	3.90	-4.37	4.22	-4.64
4	4.80	-3.99	5.69	-4.22	4.51	-5.43	4.99	-3.90	3.45	-3.80	3.03	-4.89
5	4.93	-5.04	5.47	-4.03	4.60	-4.75	4.74	-3.02	3.20	-3.42	3.40	-3.60
6	5.36	-4.00	5.20	-3.91	4.61	-4.02	4.12	-3.29	3.01	-2.96	3.46	-3.49
7	5.03	-4.12	4.90	-3.23	4.56	-3.18	3.63	-2.86	2.95	-2.25	2.51	-3.20
8	4.92	-3.79	5.11	-2.73	4.12	-2.74	3.58	-1.64	2.97	-2.09	2.74	-2.21
9	5.17	-2.93	5.11	-1.92	3.72	-2.52	3.87	-2.07	3.79	-2.09	3.71	-1.13
10	5.16	-1.83	3.82	-3.56	3.67	-3.15	3.77	-1.68	3.75	-2.63	3.13	-2.48
11	4.90	-2.66	3.62	-3.36	3.61	-2.60	4.67	-2.42	3.84	-3.05	3.42	-2.43
12	4.29	-2.90	3.51	-3.69	4.05	-3.30	3.99	-3.57	3.82	-3.22	3.53	-2.66
13	4.23	-2.72	4.13	-2.93	3.57	-3.76	3.46	-3.50	4.12	-3.30	4.06	-3.12
14	4.15	-3.03	4.38	-2.85	3.36	-3.73	4.03	-3.15	3.28	-4.49	4.16	-3.67
15	4.08	-3.12	4.49	-2.70	4.21	-2.86	4.27	-3.10	2.50	-6.81	5.02	-4.03
16	4.09	-3.42	4.37	-3.17	3.91	-3.69	4.11	-3.31	3.61	-5.92	5.35	-2.84
17	4.48	-3.14	3.98	-3.28	3.68	-4.04	3.54	-4.51	3.85	-4.72	5.36	-3.49
18	4.12	-3.45	4.62	-2.31	4.01	-3.21	3.74	-3.82	3.68	-4.78	5.21	-4.02
19	4.45	-3.68	4.36	-2.71	3.41	-3.81	4.09	-3.55	3.66	-4.63	5.09	-3.98
20	4.40	-2.47	3.93	-2.72	3.81	-3.42	3.38	-4.09	3.58	-4.68	4.90	-3.69
21	4.48	-2.26	4.07	-2.50	3.88	-3.23	3.08	-4.35	3.31	-4.35	4.92	-3.65
22	3.71	-2.68	3.96	-2.03	3.38	-3.40	3.28	-3.22	3.31	-3.89	4.30	-3.34
23	2.94	-2.86	3.58	-2.62	3.20	-3.44	3.69	-2.92	3.45	-3.35	4.02	-3.50
24	3.33	-2.10	3.26	-2.60	2.83	-3.77	3.91	-2.38	4.43	-3.75	3.45	-3.73
25	2.52	-2.93	3.18	-2.88	3.21	-2.77	4.63	-2.11	4.48	-4.04	3.73	-3.54
26	3.77	-1.73	3.01	-3.05	3.97	-2.46	4.95	-3.44	4.74	-4.09	4.12	-4.00
27	3.79	-1.26	3.22	-3.51	4.55	-2.99	5.13	-3.98	4.80	-4.68	4.13	-4.05
28	3.89	-2.13	3.95	-4.08	4.61	-3.74	5.37	-4.22	5.07	-4.76	4.13	-4.86
29	3.97	-2.10	4.20	-5.21	4.90	-4.44	5.34	-4.66	---	---	4.07	-4.97
30	4.30	-2.95	5.19	-5.00	4.83	-4.74	5.72	-4.55	---	---	4.38	-5.12
31	4.64	-3.40	---	---	4.77	-5.34	5.04	-5.16	---	---	4.68	-4.31
MONTH	5.36	-5.04	5.75	-5.21	5.47	-5.43	5.72	-5.18	5.26	-6.81	5.36	-5.12

[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, 6.27 ft, July 12, 1991; minimum elevation recorded, -7.21 ft, Apr. 7, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 6.27 ft, July 12; minimum elevation recorded, -6.83 ft, Feb. 15.

GAGE HEIGHT (FEET ABOVE DATUM), 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	4.33	-3.22	5.17	-3.83	5.57	-4.17	5.56	-5.23	5.41	-3.45	5.15	-4.28
2	4.50	-3.41	5.69	-3.92	5.53	-4.99	5.53	-4.66	5.04	-4.17	4.80	-4.18
3	4.81	-3.70	5.84	-4.12	5.59	-4.88	5.04	-4.93	4.15	-4.43	4.33	-4.74
4	4.92	-4.07	5.79	-4.28	4.59	-5.44	5.12	-3.93	3.62	-3.84	3.17	-4.84
5	5.05	-5.12	5.57	-4.12	4.75	-4.79	4.88	-3.10	3.28	-3.47	3.54	-3.60
6	5.52	-4.05	5.32	-3.97	4.73	-4.03	4.26	-3.36	3.13	-3.00	3.60	-3.49
7	5.16	-4.21	5.04	-3.26	4.70	-3.17	3.74	-2.88	3.09	-2.15	2.64	-3.18
8	5.04	-3.88	5.24	-2.73	4.20	-2.75	3.75	-1.60	3.08	-2.07	2.89	-2.11
9	5.27	-2.92	5.24	-2.02	3.87	-2.50	4.01	-2.03	3.92	-2.07	3.90	-1.03
10	5.18	-1.83	3.92	-3.61	3.79	-3.11	3.89	-1.72	3.91	-2.61	3.30	-2.47
11	5.03	-2.64	3.72	-3.38	3.73	-2.63	4.74	-2.37	3.96	-3.07	3.54	-2.39
12	4.41	-2.90	3.62	-3.74	4.17	-3.30	4.07	-3.58	3.97	-3.18	3.69	-2.64
13	4.37	-2.78	4.26	-2.96	3.67	-3.82	3.54	-3.58	4.26	-3.25	4.20	-3.13
14	4.27	-3.07	4.52	-2.89	3.48	-3.79	4.12	-3.16	3.43	-4.49	4.29	-3.70
15	4.20	-3.18	4.63	-2.72	4.36	-2.89	4.40	-3.12	2.63	-6.83	5.17	-4.07
16	4.23	-3.46	4.49	-3.25	4.01	-3.73	4.22	-3.36	3.77	-5.95	5.48	-2.85
17	4.60	-3.20	4.10	-3.32	3.82	-4.06	3.67	-4.57	4.01	-4.70	5.54	-3.49
18	4.25	-3.52	4.75	-2.32	4.14	-3.28	3.87	-3.86	3.81	-4.80	5.33	-4.09
19	4.54	-3.72	4.48	-2.75	3.54	-3.77	4.21	-3.59	3.79	-4.68	5.22	-4.09
20	4.54	-2.53	4.05	-2.76	3.93	-3.44	3.43	-4.13	3.77	-4.69	4.99	-3.73
21	4.55	-2.29	4.20	-2.57	3.98	-3.25	3.30	-4.37	3.46	-4.35	5.08	-3.69
22	3.84	-2.72	4.08	-2.05	3.52	-3.38	3.40	-3.25	3.46	-3.82	4.42	-3.34
23	3.03	-2.88	3.67	-2.65	3.34	-3.45	3.84	-2.92	3.60	-3.33	4.15	-3.48
24	3.43	-2.12	3.38	-2.58	2.96	-3.76	3.99	-2.38	4.60	-3.68	3.59	-3.74
25	2.64	-2.90	3.28	-2.87	3.32	-2.74	4.77	-2.04	4.62	-4.08	3.87	-3.56
26	3.89	-1.66	3.16	-3.05	4.07	-2.43	5.12	-3.46	4.88	-4.10	4.27	-4.01
27	3.91	-1.23	3.36	-3.51	4.70	-2.94	5.25	-3.98	4.94	-4.70	4.27	-3.96
28	4.01	-2.15	4.04	-4.09	4.76	-3.76	5.44	-4.20	5.19	-4.79	4.27	-4.89
29	4.12	-2.14	4.30	-5.23	5.02	-4.36	5.46	-4.70	---	---	4.16	-5.00
30	4.44	-3.00	5.31	-5.12	4.96	-4.78	5.85	-4.58	---	---	4.52	-5.13
31	4.77	-3.26	---	---	4.91	-5.41	5.18	-5.24	---	---	4.84	-4.33
MONTH	5.52	-5.12	5.84	-5.23	5.59	-5.44	5.85	-5.24	5.41	-6.83	5.54	-5.13

BRUNSWICK RIVER BASIN

022261792 SOUTH BRUNSWICK RIVER AT COLONELS ISLAND NEAR BRUNSWICK, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[illegible]

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, July 12; minimum elevation recorded, -6.27 ft, Feb. 15.

GAGE HEIGHT (FEET ABOVE DATUM), 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	3.91	-3.08	4.75	-3.61	5.16	-3.85	5.11	-5.03	4.91	-3.26	4.74	-4.01
2	4.12	-3.24	5.31	-3.68	5.03	-4.80	5.13	-4.39	4.54	-3.92	4.49	-3.90
3	4.33	-3.46	5.49	-3.87	5.10	-4.63	4.61	-4.70	3.43	-4.17	3.96	-4.17
4	4.50	-3.79	5.42	-4.00	4.27	-5.25	4.64	-3.75	3.02	-3.62	2.70	-4.72
5	4.61	-4.84	5.16	-3.83	4.32	-4.63	4.44	-2.82	2.82	-3.32	3.16	-3.49
6	5.18	-3.81	4.85	-3.73	4.33	-3.89	3.87	-3.12	2.64	-2.87	3.06	-3.24
7	4.73	-4.01	4.65	-3.14	4.29	-3.09	3.32	-2.78	2.59	-2.31	2.25	-3.05
8	4.51	-3.65	4.77	-2.64	3.92	-2.58	3.28	-1.58	2.62	-2.04	2.35	-2.32
9	4.87	-2.87	4.70	-1.78	3.48	-2.46	3.60	-2.07	3.48	-1.99	3.39	-1.14
10	5.04	-1.87	3.62	-3.52	3.39	-3.10	3.47	-1.63	3.48	-2.47	2.93	-2.30
11	4.72	-2.60	3.33	-3.26	3.32	-2.49	4.30	-2.41	3.53	-2.99	3.16	-2.35
12	4.09	-2.78	3.24	-3.54	3.79	-3.21	3.66	-3.43	3.51	-3.12	3.28	-2.57
13	3.95	-2.57	3.85	-2.81	3.29	-3.65	3.16	-3.39	3.81	-3.16	3.75	-3.24
14	3.84	-2.89	4.09	-2.73	3.08	-3.62	3.70	-3.05	2.95	-4.38	3.83	-3.51
15	3.81	-3.12	4.25	-2.56	3.93	-2.79	3.93	-2.96	2.29	-6.27	4.65	-3.83
16	3.81	-3.29	4.14	-3.05	3.62	-3.59	3.86	-3.10	3.28	-5.68	5.06	-2.65
17	4.10	-2.98	3.73	-3.14	3.41	-3.92	3.27	-4.33	3.54	-4.57	5.00	-3.27
18	3.85	-3.28	4.38	-2.22	3.73	-3.08	3.46	-3.65	3.37	-4.64	4.86	-3.72
19	4.17	-3.50	4.06	-2.57	3.13	-3.67	3.77	-3.39	3.32	-4.45	4.73	-3.76
20	4.11	-2.35	3.68	-2.60	3.52	-3.26	3.03	-3.89	3.10	-4.48	4.62	-3.51
21	4.18	-2.21	3.81	-2.36	3.59	-3.09	2.84	-4.18	3.03	-4.35	4.47	-3.48
22	3.43	-2.56	3.69	-1.99	3.08	-3.29	3.21	-3.05	2.93	-3.81	3.99	-3.26
23	2.68	-2.81	3.29	-2.51	2.93	-3.31	3.43	-2.80	3.05	-3.26	3.72	-3.45
24	3.09	-1.98	2.98	-2.63	2.57	-3.68	3.60	-2.30	4.09	-3.63	3.16	-3.65
25	2.34	-2.99	2.84	-2.85	2.92	-2.71	4.32	-2.03	4.17	-3.86	3.38	-3.48
26	3.47	-1.77	2.70	-3.00	3.67	-2.43	4.71	-3.31	4.38	-4.11	3.79	-3.84
27	3.53	-1.31	2.92	-3.40	4.26	-2.89	4.83	-3.99	4.50	-4.46	3.83	-4.20
28	3.62	-2.05	3.79	-3.99	4.32	-3.67	5.01	-4.03	4.78	-4.48	3.73	-4.70
29	3.73	-2.02	3.91	-5.16	4.59	-4.49	5.06	-4.54	---	---	3.86	-4.77
30	4.07	-2.87	4.91	-4.78	4.53	-4.59	5.45	-4.34	---	---	3.99	-4.85
31	4.35	-3.49	---	---	4.50	-5.17	4.72	-4.95	---	---	4.31	-4.07
MONTH	5.18	-4.84	5.49	-5.16	5.16	-5.25	5.45	-5.03	4.91	-6.27	5.06	-4.85

BRUNSWICK RIVER BASIN

022261796 BRUNSWICK RIVER AT JEKYLL ISLAND NEAR BRUNSWICK, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[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, 5.97 ft, July 12, 1991; minimum elevation recorded, -6.74 ft, Apr. 7, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 5.97 ft, July 12; minimum elevation recorded, -6.38 ft, Feb. 15.

GAGE HEIGHT (FEET ABOVE DATUM), 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	4.12	-2.99	4.97	-3.55	5.35	-3.85	5.29	-4.95	5.23	-3.21	4.94	-3.97
2	4.30	-3.15	5.48	-3.61	5.31	-4.72	5.33	-4.35	4.88	-3.83	4.69	-3.85
3	4.59	-3.40	5.62	-3.83	5.38	-4.55	4.83	-4.65	3.73	-4.12	4.17	-4.13
4	4.70	-3.72	5.60	-3.93	4.43	-5.15	4.89	-3.70	3.37	-3.55	2.96	-4.65
5	4.81	-4.78	5.39	-3.77	4.52	-4.59	4.67	-2.77	3.13	-3.24	3.40	-3.45
6	5.27	-3.73	5.11	-3.65	4.51	-3.81	4.09	-3.08	2.98	-2.79	3.36	-3.16
7	4.92	-3.88	4.84	-3.03	4.48	-3.00	3.60	-2.69	2.88	-2.22	2.44	-2.99
8	4.79	-3.54	4.98	-2.56	4.06	-2.50	3.53	-1.52	2.89	-1.92	2.64	-2.24
9	5.02	-2.73	5.03	-1.75	3.68	-2.37	3.81	-1.99	3.72	-1.89	3.61	-1.08
10	5.02	-1.73	3.80	-3.46	3.66	-3.02	3.68	-1.54	3.71	-2.39	3.11	-2.28
11	4.79	-2.49	3.56	-3.21	3.55	-2.44	4.58	-2.23	3.83	-2.87	3.36	-2.28
12	4.25	-2.68	3.49	-3.50	4.00	-3.13	3.90	-3.37	3.80	-3.01	3.50	-2.48
13	4.17	-2.51	4.05	-2.73	3.51	-3.58	3.39	-3.37	4.11	-3.05	4.03	-3.11
14	4.07	-2.80	4.32	-2.68	3.30	-3.52	3.93	-3.00	3.29	-4.22	4.12	-3.46
15	4.03	-3.01	4.45	-2.49	4.15	-2.70	4.18	-2.92	2.46	-6.38	5.00	-3.75
16	4.01	-3.19	4.32	-2.94	3.85	-3.48	4.03	-3.03	3.62	-5.68	5.31	-2.61
17	4.39	-2.90	3.95	-3.07	3.61	-3.88	3.47	-4.32	3.86	-4.53	5.37	-3.15
18	4.06	-3.18	4.56	-2.14	3.94	-3.03	3.69	-3.61	3.67	-4.58	5.20	-3.72
19	4.34	-3.48	4.32	-2.47	3.36	-3.58	3.99	-3.37	3.63	-4.38	5.08	-3.67
20	4.33	-2.25	3.89	-2.52	3.75	-3.25	3.29	-3.83	3.47	-4.42	4.89	-3.45
21	4.37	-2.07	4.04	-2.32	3.80	-3.02	3.05	-4.18	3.28	-4.21	4.90	-3.41
22	3.68	-2.46	3.91	-1.83	3.34	-3.21	3.34	-2.99	3.27	-3.73	4.28	-3.16
23	2.88	-2.67	3.54	-2.41	3.14	-3.25	3.66	-2.71	3.37	-3.18	4.00	-3.37
24	3.28	-1.93	3.23	-2.55	2.78	-3.61	3.85	-2.26	4.36	-3.57	3.40	-3.59
25	2.50	-2.80	3.09	-2.76	3.13	-2.65	4.59	-1.97	4.41	-3.82	3.67	-3.38
26	3.71	-1.63	2.95	-2.91	3.87	-2.37	4.91	-3.25	4.66	-3.97	4.07	-3.77
27	3.74	-1.17	3.17	-3.37	4.47	-2.82	5.08	-3.86	4.71	-4.42	4.06	-3.98
28	3.87	-1.95	3.88	-3.91	4.57	-3.60	5.28	-3.95	4.95	-4.44	4.05	-4.62
29	3.92	-1.94	4.13	-5.05	4.82	-4.38	5.30	-4.41	---	---	4.05	-4.73
30	4.24	-2.73	5.03	-4.82	4.75	-4.55	5.68	-4.26	---	---	4.26	-4.89
31	4.58	-3.35	---	---	4.68	-5.10	5.03	-4.84	---	---	4.62	-4.04
MONTH	5.27	-4.78	5.62	-5.05	5.38	-5.15	5.68	-4.95	5.23	-6.38	5.37	-4.89

BRUNSWICK RIVER BASIN

022261798 MAKAY RIVER AT TORRAS CAUSEWAY NEAR BRUNSWICK, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[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, 5.76 ft, July 12, 1991; minimum elevation recorded, -6.74 ft, Apr. 7, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 5.76 ft, July 12; minimum elevation recorded, -6.29 ft, Feb. 15.

GAGE HEIGHT (FEET ABOVE DATUM), 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	3.96	-3.00	4.76	-3.51	5.21	-3.80	5.17	-4.91	5.01	-3.19	4.78	-3.91
2	4.11	-3.15	5.25	-3.57	5.20	-4.69	5.14	-4.30	4.60	-3.82	4.48	-3.79
3	4.36	-3.38	5.40	-3.78	5.18	-4.52	4.75	-4.61	3.37	-4.06	3.90	-4.09
4	4.52	-3.71	5.46	-3.89	4.22	-5.14	4.74	-3.66	2.93	-3.52	2.70	-4.61
5	4.62	-4.75	5.27	-3.72	4.33	-4.55	4.47	-2.74	2.80	-3.23	3.09	-3.42
6	5.10	-3.68	4.93	-3.62	4.33	-3.79	3.93	-3.04	2.68	-2.78	2.99	-3.20
7	4.82	-3.84	4.61	-3.09	4.23	-3.00	3.26	-2.72	2.55	-2.28	2.19	-2.98
8	4.66	-3.50	4.72	-2.55	3.98	-2.50	3.25	-1.56	2.58	-2.00	2.38	-2.31
9	4.81	-2.78	4.74	-1.71	3.44	-2.40	3.60	-2.05	3.51	-1.90	3.39	-1.13
10	4.77	-1.77	3.51	-3.49	3.45	-3.04	3.44	-1.52	3.45	-2.39	2.92	-2.21
11	4.52	-2.46	3.26	-3.16	3.34	-2.41	4.37	-2.31	3.51	-2.95	3.14	-2.27
12	4.04	-2.70	3.24	-3.45	3.81	-3.14	3.63	-3.32	3.50	-3.05	3.23	-2.48
13	4.03	-2.49	3.80	-2.69	3.24	-3.56	3.19	-3.29	3.80	-3.05	3.72	-3.21
14	3.89	-2.80	4.10	-2.69	2.96	-3.45	3.74	-2.95	2.94	-4.25	3.84	-3.38
15	3.79	-3.08	4.26	-2.54	3.94	-2.72	3.91	-2.86	2.19	-6.29	4.68	-3.71
16	3.75	-3.19	4.08	-2.95	3.67	-3.50	3.77	-3.00	3.25	-5.57	5.07	-2.59
17	4.14	-2.89	3.76	-3.07	3.39	-3.85	3.24	-4.24	3.53	-4.51	5.07	-3.17
18	3.79	-3.25	4.30	-2.14	3.72	-2.99	3.43	-3.53	3.35	-4.54	5.06	-3.64
19	4.21	-3.43	4.13	-2.50	3.13	-3.57	3.80	-3.30	3.38	-4.38	4.73	-3.63
20	4.19	-2.27	3.68	-2.51	3.55	-3.21	3.02	-3.73	2.95	-4.37	4.55	-3.41
21	4.10	-2.13	3.81	-2.29	3.57	-3.01	2.86	-4.10	2.91	-4.22	4.38	-3.39
22	3.38	-2.48	3.69	-1.85	3.04	-3.20	3.22	-2.92	2.88	-3.77	3.97	-3.22
23	2.59	-2.72	3.28	-2.48	2.83	-3.23	3.37	-2.71	3.09	-3.18	3.65	-3.41
24	3.03	-1.93	2.93	-2.59	2.49	-3.60	3.58	-2.24	4.03	-3.53	3.05	-3.59
25	2.35	-2.80	2.87	-2.80	2.82	-2.65	4.34	-1.95	4.15	-3.79	3.38	-3.40
26	3.49	-1.70	2.68	-2.94	3.64	-2.40	4.69	-3.21	4.44	-4.08	3.76	-3.76
27	3.48	-1.20	2.86	-3.33	4.27	-2.81	4.80	-3.91	4.48	-4.38	3.86	-4.13
28	3.67	-1.97	3.76	-3.92	4.24	-3.60	5.07	-3.90	4.76	-4.36	3.81	-4.61
29	3.68	-1.95	3.94	-4.98	4.61	-4.45	5.06	-4.38	---	---	3.80	-4.67
30	4.03	-2.72	4.92	-4.58	4.58	-4.51	5.39	-4.25	---	---	3.96	-4.80
31	4.36	-3.42	---	---	4.48	-5.06	4.76	-4.86	---	---	4.33	-3.97
MONTH	5.10	-4.75	5.46	-4.98	5.21	-5.14	5.39	-4.91	5.01	-6.29	5.07	-4.80

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[illegible]

SATILLA RIVER BASIN

02226356 SEVENTEENMILE RIVER NEAR STOKESVILLE, GA.

LOCATION.--Lat 31°22'23", long 82°40'43", Coffee County, Hydrologic Unit 03070201, at State Highway 64, 0.8 miles upstream from Cat Creek, and 2 miles northeast of Stokesville.

PERIOD OF RECORD.--July 1991 to September 1991.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 31...	0855	10.35	86	85	6.2	6.2	24.5	26.0	6.3	76
SEP 18...	0845	8.95	104	103	6.3	6.2	24.0	28.0	2.9	34

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 31...	200	6.0	--	630	14	0.070	0.040	0.320	21
SEP 18...	180	8.0	1.6	--	18	0.040	0.080	0.360	27

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 1990 TO SEPTEMBER 1991

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...	1000	395	160	159	5.4	5.4	21.5	28.5	6.5	73
NOV 14...	1030	28	101	103	6.3	6.2	13.0	22.0	6.1	57
DEC 12...	1120	80	106	108	6.6	6.3	8.5	15.0	8.7	74
JAN 23...	1030	9000	54	53	5.0	4.7	8.0	13.0	6.6	55
FEB 13...	1020	2450	47	47	4.8	4.7	10.0	16.0	5.7	50
MAR 13...	1120	4400	34	33	4.7	4.8	14.0	21.0	5.0	49
APR 04...	0840	2600	40	39	4.9	5.0	15.5	19.5	5.4	53
MAY 15...	0930	900	46	45	5.3	5.4	24.5	26.0	6.1	73
JUN 12...	0855	860	47	49	5.1	5.3	23.0	26.0	5.0	58
JUL 31...	1000	1320	38	37	4.8	4.8	25.5	26.5	5.3	65
AUG 28...	1055	1370	40	38	5.0	4.8	25.5	34.0	5.1	62
SEP 18...	1030	130	56	55	5.6	5.5	27.0	31.0	4.4	55

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...	120	4.0	1.9	50	3	0.190	<0.030	0.170	23
NOV 14...	110	3.0	1.0	--	6	0.100	0.050	0.060	25
DEC 12...	120	3.0	1.6	--	8	0.020	0.050	0.150	24
JAN 23...	140	8.0	1.6	460	1	0.110	<0.030	0.060	27
FEB 13...	200	4.0	0.9	20	1	<0.020	<0.030	0.060	25
MAR 13...	210	6.0	1.3	170	1	0.030	0.100	0.060	22
APR 04...	280	8.0	1.6	110	3	0.050	0.040	0.110	28
MAY 15...	240	9.0	1.8	60	--	0.080	0.030	0.140	29
JUN 12...	220	8.0	1.2	20	4	0.070	0.030	0.150	35
JUL 31...	240	6.0	1.1	210	3	0.030	0.050	0.090	31
AUG 28...	200	15	1.0	--	1	0.060	<0.030	0.060	31
SEP 18...	200	7.0	0.8	--	--	0.180	0.090	0.250	24

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.--54 years, 1,048 ft³/s, 11.86 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 5.5 ft³/s, Oct. 9-10, 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)
Feb. 1	1700	20,500	19.77	July 23	2300	3,510	14.19
Mar. 6	2200	*31,800	*21.52	Aug. 7	1000	7,180	16.25
Apr. 5	1200	3,310	14.01	Aug. 21	0800	3,240	13.94
June 8	0400	2,920	13.58				

Minimum discharge, 5.5 ft³/s, Oct. 9, 10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	62	73	425	20200	907	1540	2290	2270	1480	2570	1880
2	6.1	56	69	401	20000	1230	1980	2030	2270	1360	3390	1850
3	5.8	51	66	376	17900	3620	2520	1640	2520	1210	3940	1870
4	5.6	47	64	372	14800	6230	3050	1420	2630	987	4350	1950
5	5.6	44	61	367	11900	17300	3280	1350	2790	769	5460	1980
6	5.6	41	60	373	9510	30000	3070	1300	2860	578	6730	1830
7	5.6	38	63	432	7760	29800	2510	1260	2900	443	7160	1550
8	5.6	35	67	562	6420	23500	2000	1230	2920	386	7010	1220
9	5.5	37	68	697	5370	16900	1690	1240	2860	397	6480	902
10	133	50	73	788	4620	12300	1550	1200	2550	919	5660	653
11	263	41	81	919	4150	9220	1480	1070	2010	1530	4760	489
12	581	42	90	1100	3790	7130	1400	952	1440	1470	3980	384
13	388	46	105	1280	3460	5690	1300	808	936	1210	3270	316
14	344	42	124	1540	3250	4770	1210	831	609	984	2560	263
15	386	37	148	1900	2990	4130	1130	938	486	917	2180	222
16	431	35	172	2400	2710	3660	1030	1030	398	1270	2250	188
17	451	43	185	2900	2470	3350	953	1180	351	1840	2440	162
18	428	147	184	3690	2270	3180	837	1300	318	2460	2600	139
19	343	211	200	4650	2070	3010	726	1240	461	2940	2770	122
20	268	196	228	5480	1890	2860	735	1120	566	3150	3070	111
21	244	171	224	5250	1710	2770	694	944	591	3310	3230	98
22	226	158	299	5630	1540	2760	617	827	730	3370	3070	88
23	201	144	383	7740	1420	2770	635	737	838	3460	2510	80
24	176	127	434	9940	1320	2760	660	672	786	3450	1860	74
25	151	112	469	11600	1210	2700	670	631	611	3220	1500	82
26	130	102	508	11800	1110	2570	811	620	547	2920	1380	89
27	114	95	552	12500	1020	2330	1020	881	498	2530	1430	73
28	101	92	590	14500	955	1990	1300	1200	449	2010	1580	66
29	90	90	596	15500	---	1660	1650	1670	941	1760	1760	61
30	80	79	554	17000	---	1520	1980	2040	1430	1730	1860	57
31	70	---	481	18600	---	1410	---	2250	---	1900	1920	---
TOTAL	5650.9	2471	7271	160712	157815	214027	44028	37901	41566	55960	104730	18849
MEAN	182	82.4	235	5184	5636	6904	1468	1223	1386	1805	3378	628
MAX	581	211	596	18600	20200	30000	3280	2290	2920	3460	7160	1980
MIN	5.5	35	60	367	955	907	617	620	318	386	1380	57
CFSM	.15	.07	.20	4.32	4.70	5.75	1.22	1.02	1.15	1.50	2.82	.52
IN.	.18	.08	.23	4.98	4.89	6.63	1.36	1.17	1.29	1.73	3.25	.58

CAL YR 1990 TOTAL 212109.8 MEAN 581 MAX 4480 MIN 5.5 CFSM .48 IN. 6.58
WTR YR 1991 TOTAL 850980.9 MEAN 2331 MAX 30000 MIN 5.5 CFSM 1.94 IN. 26.38

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 1990 TO SEPTEMBER 1991

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...	1205	E450	162	161	5.6	5.7	24.0	31.0	4.7	55
NOV 14...	1235	E66	129	133	6.6	6.7	14.0	24.0	8.1	77
DEC 12...	1310	E83	126	126	6.5	6.7	10.0	17.5	8.3	73
JAN 23...	1200	5600	62	60	4.8	4.7	10.5	15.0	6.4	57
FEB 13...	1205	3900	45	46	4.7	4.7	11.5	21.0	5.1	47
MAR 13...	1410	7300	34	33	4.8	4.9	13.5	22.0	5.2	50
APR 04...	1145	1980	44	43	5.2	5.3	16.0	24.0	4.4	44
MAY 15...	1120	650	51	51	5.4	5.5	26.0	30.0	4.9	60
JUN 12...	1100	2250	44	45	4.9	5.1	24.0	36.0	4.3	51
JUL 31...	1205	2000	42	40	5.0	5.0	26.0	28.0	3.9	48
AUG 28...	1315	2050	44	42	5.1	5.1	25.5	35.0	3.7	45
SEP 18...	1235	250	68	64	5.9	5.8	27.5	34.0	3.8	48

DATE	COLOR (PLAT- NUM- 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 17...	110	5.0	56	2.0	490	4	6
NOV 14...	110	3.0	38	0.7	--	16	1
DEC 12...	100	3.0	31	1.1	--	12	1
JAN 23...	140	6.0	59	1.8	490	1	2
FEB 13...	200	5.0	66	0.6	<20	1	2
MAR 13...	150	6.0	63	0.9	20	1	3
APR 04...	210	8.0	72	1.6	790	3	4
MAY 15...	240	8.0	77	1.5	50	5	9
JUN 12...	320	7.0	89	0.9	20	3	4
JUL 31...	280	6.0	--	1.5	50	4	5
AUG 28...	220	9.0	--	1.1	--	3	8
SEP 18...	240	6.0	--	0.9	--	--	5

SATILLA RIVER BASIN

02226582 SATILLA RIVER NEAR HOBOKEN, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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...	0.280	0.030	0.87	0.90	1.2	0.210	1.1
NOV 14...	0.570	E0.110	--	0.80	1.4	0.230	17
DEC 12...	0.610	0.030	0.37	0.40	1.0	0.370	17
JAN 23...	<0.020	<0.030	--	0.60	--	0.070	30
FEB 13...	<0.020	<0.030	--	0.80	--	0.050	26
MAR 13...	<0.020	0.060	0.54	0.60	--	0.120	22
APR 04...	0.070	0.130	0.77	0.90	0.97	0.130	29
MAY 15...	0.110	0.060	0.64	0.70	0.81	0.180	28
JUN 12...	0.040	<0.030	--	1.0	1.0	0.130	38
JUL 31...	0.040	0.050	--	--	--	0.180	32
AUG 28...	0.040	0.030	--	--	--	0.080	32
SEP 18...	0.210	0.220	--	--	--	0.330	24

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. Record good.

AVERAGE DISCHARGE.--40 years, 530 ft³/s, 11.14 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 to Oct. 6, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 1,500 ft³/s and amximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 31	1700	11,700	13.03	July 18	2100	6,300	11.28
Mar. 6	0900	*14,200	*13.76	Aug. 6	0200	3,200	10.06
Apr. 25	1400	1,870	9.23	Aug. 19	0300	2,020	9.35
June 2	1200	1,650	9.03				

No flow, Oct. 1-6.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	52	30	279	10500	250	1110	1160	1210	75	814	865
2	.00	43	30	290	8840	458	1160	1210	1610	93	1230	882
3	.00	37	29	292	6930	2160	1120	1160	1390	101	2130	822
4	.00	32	28	303	5160	7600	998	844	1280	283	2600	734
5	.00	26	24	309	3860	10900	829	615	1460	648	3060	650
6	.00	21	22	303	3020	13800	853	632	1610	402	3140	533
7	.02	17	23	310	2540	11000	1040	642	1460	396	2810	397
8	.02	15	33	362	2160	7210	1080	586	1140	434	2220	280
9	.01	14	41	395	1840	4770	1200	497	824	281	1670	205
10	3.7	29	51	437	1570	3370	1180	470	580	163	1220	177
11	10	38	55	642	1310	2590	1100	471	416	161	887	141
12	241	69	55	992	1130	2060	982	495	380	165	616	105
13	761	71	64	1150	975	1700	879	440	387	240	422	80
14	663	61	72	1240	873	1440	729	396	304	327	376	62
15	328	69	74	1330	785	1200	585	339	242	641	516	49
16	173	77	73	1640	692	1000	468	305	308	1210	1010	51
17	143	77	70	2030	622	853	374	252	358	3950	1600	55
18	162	72	67	2020	540	834	322	198	440	5770	1830	42
19	166	69	85	1850	478	864	319	195	645	5630	1960	35
20	140	67	190	2270	439	872	351	323	772	4250	1670	48
21	155	61	267	2860	404	847	596	508	873	3220	1210	96
22	208	53	309	3440	376	815	825	702	735	2510	867	71
23	183	47	333	4380	352	788	953	684	548	2030	590	41
24	147	42	378	4680	332	735	1470	706	356	1570	467	28
25	116	37	410	5350	316	648	1820	708	254	1150	594	28
26	87	33	422	6610	300	543	1750	639	185	933	808	56
27	71	31	410	7100	280	447	1460	552	157	752	684	57
28	65	29	384	7420	265	376	1310	653	197	812	487	40
29	69	29	361	7840	---	328	1220	926	133	848	467	26
30	69	28	343	8640	---	545	1070	953	103	765	661	19
31	61	---	317	11300	---	791	---	813	---	731	837	---
TOTAL	4021.75	1346	5050	88064	56889	81794	29153	19074	20357	40541	39453	6675
MEAN	130	44.9	163	2841	2032	2639	972	615	679	1308	1273	222
MAX	761	77	422	11300	10500	13800	1820	1210	1610	5770	3140	882
MIN	.00	14	22	279	265	250	319	195	103	75	376	19
CFSM	.20	.07	.25	4.40	3.15	4.08	1.50	.95	1.05	2.02	1.97	.34
IN.	.23	.08	.29	5.07	3.28	4.71	1.68	1.10	1.17	2.33	2.27	.38

CAL YR 1990 TOTAL 117856.62 MEAN 323 MAX 3800 MIN .00 CFSM .50 IN. 6.79
WTR YR 1991 TOTAL 392417.75 MEAN 1075 MAX 13800 MIN .00 CFSM 1.66 IN. 22.60

SATILLA RIVER BASIN

02227500 LITTLE SATILLA RIVER NEAR OFFERMAN, GA.--Continued

PERIOD OF RECORD.--August 1991 to September 1991.

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 1990 TO SEPTEMBER 1991

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)
AUG 28...	1210	483	47	46	4.9	4.7	25.5	31.0	4.5	55

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)
AUG 28...	240	5.0	0.9	--	1	0.050	0.040	0.060	37

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 82, 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.--61 years, 2,280 ft³/s, 11.10 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)
Feb. 3	1100	40,200	20.61	July 23	1000	10,200	15.16
Mar. 9	2100	*45,000	*21.26	Aug. 11	1400	10,900	15.37

Minimum daily discharge, 16 ft³/s, Oct. 1-3, 9.

SATILLA RIVER BASIN

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	304	180	930	36100	2320	3510	3970	2760	2330	5590	3910
2	16	277	177	980	38900	2320	3430	4160	3200	2150	5260	3590
3	16	253	175	1000	39900	2940	3380	4330	3520	1970	4900	3430
4	17	232	172	1000	38800	4030	3360	4600	3810	1880	4760	3390
5	18	213	165	996	36000	5060	3360	4900	4150	1890	4990	3390
6	20	197	162	989	31800	7480	3550	5300	4390	1980	5730	3360
7	19	182	160	969	27200	16800	3750	5190	4520	2130	6880	3310
8	17	169	159	943	22600	34200	4030	4810	4640	2190	8130	3220
9	16	165	156	931	18500	44000	4890	4300	4820	2080	9320	3080
10	31	176	156	971	15200	43300	5570	3840	5020	1900	10300	2870
11	42	160	164	1090	12800	37200	5620	3480	5100	1660	10800	2610
12	44	152	176	1270	11100	29700	5320	3170	4950	1470	10600	2350
13	105	159	184	1500	9870	23400	4950	2870	4520	1370	9980	2070
14	416	175	190	1760	9020	18300	4570	2620	4050	1370	9100	1790
15	745	186	197	2000	8150	14400	4160	2430	3700	1530	8050	1480
16	1060	182	209	2240	7360	11900	3750	2270	3370	1840	6930	1200
17	1260	178	221	2490	6670	10300	3390	2100	3020	2210	5940	944
18	1230	177	233	2760	6080	9230	3110	1960	2600	2570	5170	763
19	1040	174	251	3080	5580	8340	2730	1810	2300	3160	4620	655
20	878	169	270	3600	5130	7540	2490	1790	2040	4370	4390	588
21	794	167	291	4360	4660	6870	2370	1930	1880	6610	4390	518
22	749	184	359	5450	4210	6340	2270	2090	1840	9050	4610	473
23	713	207	454	6840	3820	5920	2280	2220	1890	10100	4920	460
24	698	218	527	8700	3480	5550	2440	2330	1980	9900	5180	441
25	668	219	583	10900	3190	5200	2570	2400	2030	9300	5250	418
26	615	219	649	13100	2940	4860	2660	2390	1990	8780	5090	398
27	548	215	714	17000	2690	4550	2780	2350	1960	8160	4860	362
28	479	209	775	22500	2490	4280	3000	2260	2080	7500	4730	354
29	419	199	827	26000	---	4030	3420	2180	2270	6850	4750	358
30	369	186	864	29100	---	3810	3730	2160	2380	6230	4680	342
31	332	---	896	32700	---	3620	---	2340	---	5840	4340	---
TOTAL	13390	5903	10696	208149	414240	387790	106440	94550	96780	130370	194240	52124
MEAN	432	197	345	6714	14790	12510	3548	3050	3226	4205	6266	1737
MAX	1260	304	896	32700	39900	44000	5620	5300	5100	10100	10800	3910
MIN	16	152	156	930	2490	2320	2270	1790	1840	1370	4340	342
CFSM	.15	.07	.12	2.41	5.30	4.48	1.27	1.09	1.16	1.51	2.25	.62
IN.	.18	.08	.14	2.78	5.52	5.17	1.42	1.26	1.29	1.74	2.59	.69
CAL YR 1990	TOTAL 456843	MEAN 1252	MAX 8780	MIN 15	CFSM .45	IN. 6.09						
WTR YR 1991	TOTAL 1714672	MEAN 4698	MAX 44000	MIN 16	CFSM 1.68	IN. 22.86						

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. Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Present data above the $\mu\text{g/L}$ level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey will begin using new trace-element protocols in the near future.

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 1990 TO SEPTEMBER 1991

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)
NOV							
06...	1130	80020	197	103	102	6.2	6.2
06...	1140	81341	197	103	98	6.2	6.0
JAN							
30...	0930	80020	28800	52	48	4.7	5.1
30...	0940	81341	28800	52	49	4.7	4.5
MAY							
22...	1100	80020	2100	48	49	4.9	5.5
22...	1110	81341	2100	48	47	4.9	5.0
SEP							
04...	1130	80020	3390	46	44	4.9	5.6
04...	1140	81341	3390	46	44	4.9	4.8

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)
NOV									
06...	80020	20.0	18.0	7.2	79	5	4	--	6.1
06...	81341	20.0	18.0	7.2	79	--	--	5	--
JAN									
30...	80020	11.5	19.5	8.6	78	4	3	--	<1.0
30...	81341	11.5	19.5	8.6	78	--	--	1	--
MAY									
22...	80020	24.0	27.0	4.9	58	3	3	--	3.1
22...	81341	24.0	27.0	4.9	58	--	--	2	--
SEP									
04...	80020	25.0	28.0	4.2	51	1	1	--	--
04...	81341	25.0	28.0	4.2	51	--	--	1	--

SATILLA RIVER BASIN

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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)
NOV								
06...	80020	--	3.8	--	--	K9	340	22
06...	81341	140	4.0	1.8	20	--	--	--
JAN								
30...	80020	--	4.0	--	--	K300	210	8
30...	81341	160	7.0	1.4	330	--	--	--
MAY								
22...	80020	--	4.1	--	--	K40	36	10
22...	81341	240	9.0	2.3	80	--	--	--
SEP								
04...	80020	--	3.4	--	--	K20	110	9
04...	81341	280	6.0	0.8	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)
NOV							
06...	80020	4.3	2.7	9.9	46	0.9	3.0
JAN							
30...	80020	1.5	1.1	3.5	41	0.5	2.2
MAY							
22...	80020	2.0	1.2	4.2	43	0.6	1.7
SEP							
04...	80020	1.8	1.1	3.2	37	0.5	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)
NOV								
06...	80020	15	0.10	11	78	68	41.5	0.11
JAN								
30...	80020	6.3	<0.10	4.8	69	27	5370	0.09
MAY								
22...	80020	7.7	0.20	7.0	75	30	425	0.10
SEP								
04...	80020	--	<0.10	8.3	84	26	769	0.11

SATILLA RIVER BASIN

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	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, NITRITE 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)
NOV 06...	<0.010	0.200	0.200	0.050	<0.010	0.040	0.95	1.0	0.090	0.050	0.050	--
06...	--	0.180	--	0.070	--	--	--	--	0.160	--	--	22
JAN 30...	<0.010	<0.100	<0.100	0.020	<0.010	0.020	0.88	0.90	0.020	0.010	<0.010	--
30...	--	0.050	--	0.040	--	--	--	--	0.150	--	--	--
MAY 22...	0.010	0.051	0.069	0.110	0.020	0.130	1.1	1.2	0.090	0.060	0.040	--
22...	--	0.050	--	0.050	--	--	--	--	0.120	--	--	34
SEP 04...	<0.010	<0.050	0.056	0.080	0.010	0.100	1.1	1.2	0.090	0.050	0.020	--
04...	--	0.020	--	0.040	--	--	--	--	0.070	--	--	31

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)
NOV 06...	80020	390	<1	34	<0.5	<1.0	2	<3	4	780	1
JAN 30...	80020	540	<1	14	<0.5	<1.0	2	<3	1	400	<1
MAY 22...	80020	600	<1	20	<0.5	<1.0	2	<3	1	1300	2
SEP 04...	80020	620	<1	22	<0.5	<1.0	<1	<3	<1	1300	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)
NOV 06...	80020	<4	42	<0.1	<10	2	<1	<1.0	30	<6	16
JAN 30...	80020	<4	39	<0.1	<10	1	<1	<1.0	10	<6	11
MAY 22...	80020	<4	28	<0.1	<10	<1	<2	<1.0	14	<6	12
SEP 04...	80020	<4	33	<0.1	<10	<1	<1	<1.0	13	<6	6

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
NOV 06...	1135	84213	197	20.0	12	6.4	83
JAN 30...	0935	84213	28800	11.5	17	1320	58
MAY 22...	1105	84213	2100	24.0	15	85	90
SEP 04...	1135	84213	3390	25.0	13	119	91

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 current year.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 6.54 ft, Nov. 13, 1982; minimum elevation recorded, -5.08 ft, Jan. 11, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 5.85 ft, July 12; minimum elevation recorded, -4.27 ft, Dec. 4.

GAGE HEIGHT, FEET, 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	4.02	-2.35	4.84	-2.78	5.18	-3.21	5.15	-4.26	5.09	-2.69	---	---
2	4.16	-2.59	5.34	-2.99	5.10	-4.11	5.17	-3.70	4.64	-3.19	---	---
3	4.36	-2.84	5.59	-3.17	5.08	-3.97	4.64	-3.89	3.90	-3.41	---	---
4	4.52	-3.28	5.42	-3.22	4.39	-4.27	4.74	-3.03	3.41	-2.92	---	---
5	4.64	-4.12	5.23	-3.17	4.52	-3.82	4.59	-2.19	3.07	-2.69	---	---
6	5.17	-3.22	4.98	-3.02	4.37	-3.28	4.00	-2.55	2.91	-2.27	---	---
7	4.82	-3.29	4.73	-2.59	4.42	-2.54	3.46	-2.28	2.81	-1.95	---	---
8	4.67	-2.96	4.88	-2.16	4.03	-2.04	3.32	-1.26	2.84	-1.56	---	---
9	4.88	-2.35	4.80	-1.34	3.62	-1.94	3.80	-1.74	3.72	-1.39	---	---
10	4.78	-1.31	3.55	-2.97	3.52	-2.60	3.72	-1.13	3.60	-1.87	---	---
11	4.63	-1.98	3.43	-2.60	3.52	-1.98	4.40	-1.96	3.68	-2.31	---	---
12	4.03	-2.13	3.41	-2.84	3.91	-2.62	3.84	-2.68	3.73	-2.40	---	---
13	4.08	-2.06	3.94	-2.35	3.42	-2.98	3.43	-2.70	3.93	-2.60	---	---
14	3.94	-2.35	4.25	-2.13	3.16	-2.92	3.77	-2.45	3.12	-3.59	---	---
15	3.86	-2.37	4.37	-1.96	4.05	-2.31	4.09	-2.48	2.63	-3.94	---	---
16	3.87	-2.70	4.13	-2.44	3.72	-2.91	3.84	-2.55	---	---	---	---
17	4.23	-2.39	3.90	-2.51	3.54	-3.29	3.47	-3.56	---	---	---	---
18	3.94	-2.70	4.62	-1.66	3.82	-2.57	3.56	-3.04	---	---	---	---
19	4.28	-2.77	4.23	-1.96	3.20	-3.05	3.90	-2.68	---	---	---	---
20	4.26	-1.88	3.85	-2.01	3.58	-2.77	3.18	-2.96	---	---	4.64	-2.79
21	4.25	-1.63	3.96	-1.82	3.70	-2.52	3.10	-3.41	---	---	4.67	-2.80
22	3.58	-2.00	3.86	-1.40	3.24	-2.65	3.14	-2.54	---	---	4.08	-2.65
23	2.88	-2.28	3.47	-1.94	3.03	-2.75	3.56	-2.42	---	---	3.77	-2.83
24	3.26	-1.53	3.09	-2.17	2.74	-2.96	3.64	-1.86	---	---	3.27	-3.06
25	2.59	-2.09	2.96	-2.34	3.10	-2.19	4.53	-1.41	---	---	3.48	-2.86
26	3.66	-1.18	2.80	-2.58	3.81	-2.01	4.90	-2.70	---	---	3.88	-3.21
27	3.66	-.87	3.03	-2.89	4.39	-2.39	4.93	-3.22	---	---	3.83	-3.44
28	3.76	-1.53	3.65	-3.41	4.46	-3.06	5.10	-3.24	---	---	3.72	-4.04
29	3.85	-1.47	3.85	-4.21	4.63	-3.80	5.00	-3.79	---	---	3.66	-4.05
30	4.16	-2.09	5.05	-3.85	4.59	-3.89	5.40	-3.68	---	---	4.01	-4.07
31	4.51	-2.53	---	---	4.51	-4.26	4.72	-4.15	---	---	4.43	-3.48
MONTH	5.17	-4.12	5.59	-4.21	5.18	-4.27	5.40	-4.26	---	---	---	---

CROOKED RIVER BASIN

02228300 CUMBERLAND SOUND AT DUNGENESS DOCK NEAR ST MARYS, GA.--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.04	-3.02	3.87	-2.15	3.95	-1.39	3.90	-2.01	3.54	-2.40	4.20	-2.23
2	4.07	-2.89	3.82	-2.46	3.76	-1.59	3.81	-2.03	3.48	-2.86	5.24	-1.09
3	4.09	-2.27	3.68	-1.67	3.73	-1.56	3.53	-2.20	3.57	-2.89	5.15	-.91
4	4.08	-2.14	3.67	-1.76	3.54	-1.88	3.30	-2.47	3.67	-3.07	5.24	-1.57
5	---	---	3.30	-1.89	4.40	-1.43	3.70	-2.55	4.05	-2.95	5.27	-2.25
6	---	---	2.99	-2.28	4.87	-.24	3.97	-2.47	4.45	-3.12	5.36	-2.80
7	---	---	2.55	-2.48	4.98	-.73	4.41	-2.70	4.75	-3.48	5.41	-3.09
8	---	---	3.22	-1.97	4.78	-1.52	4.83	-2.59	5.06	-3.85	5.78	-2.51
9	---	---	3.56	-2.24	4.86	-2.60	5.18	-3.10	5.15	-3.89	5.62	-2.07
10	---	---	3.82	-2.55	5.18	-3.13	5.43	-3.51	4.67	-4.06	5.27	-2.18
11	---	---	4.50	-3.09	5.40	-3.52	5.23	-4.15	5.01	-3.98	4.92	-2.24
12	---	---	4.95	-3.17	5.32	-3.91	5.85	-3.62	4.65	-3.35	4.30	-2.32
13	---	---	5.12	-3.74	5.18	-4.19	5.33	-3.40	4.52	-3.19	4.25	-2.14
14	---	---	5.37	-3.64	5.23	-3.71	4.71	-3.61	4.21	-2.87	3.87	-1.58
15	---	---	5.35	-3.83	4.93	-3.15	4.35	-3.54	3.85	-2.61	3.40	-1.74
16	4.81	---	5.38	-3.43	4.76	-3.32	4.41	-3.04	3.72	-2.42	3.57	-1.45
17	4.98	-4.03	5.01	-3.17	4.58	-3.27	4.20	-2.77	3.90	-1.91	3.58	-1.23
18	4.86	-3.56	4.91	-3.13	4.03	-2.85	3.87	-2.34	3.99	-1.43	3.58	-1.26
19	4.82	-2.67	4.63	-2.85	3.85	-2.54	3.60	-2.47	3.39	-1.86	3.62	-1.61
20	4.79	-2.16	5.05	-1.61	3.68	-2.61	3.61	-2.49	3.06	-2.72	4.42	-1.74
21	4.49	-2.57	4.64	-1.74	3.62	-2.80	3.50	-2.26	3.20	-2.08	5.32	-.66
22	3.96	-2.65	4.63	-1.89	3.74	-2.74	3.50	-2.39	3.71	-2.11	---	---
23	3.71	-2.60	4.49	-1.92	3.76	-2.75	3.58	-2.48	3.91	-2.19	---	---
24	4.01	-2.74	4.48	-2.11	4.81	-2.81	3.75	-2.65	3.98	-2.56	---	---
25	4.53	-2.66	4.56	-2.38	5.06	-1.14	3.78	-2.96	4.00	-2.71	---	---
26	4.45	-2.67	4.36	-2.42	4.87	-1.37	3.66	-2.81	3.99	-2.56	---	---
27	4.57	-2.78	4.17	-2.70	4.66	-1.65	4.06	-2.65	4.16	-2.48	---	---
28	4.34	-2.98	3.89	-2.71	4.53	-1.68	3.74	-2.51	4.17	-2.51	---	---
29	4.27	-2.93	4.00	-2.79	4.20	-1.77	3.63	-2.63	4.30	-2.39	---	---
30	4.29	-2.73	4.27	-2.24	4.04	-1.79	3.46	-2.78	4.24	-2.21	---	---
31	---	---	4.08	-1.82	---	---	3.62	-2.74	4.32	-2.28	---	---
MONTH	---	---	5.38	-3.83	5.40	-4.19	5.85	-4.15	5.15	-4.06	---	---

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: Oct. 3, 4, Jan. 21-29, Mar. 14, July 5-8, 22-31. Records fair.

AVERAGE DISCHARGE.--65 years, 668 ft³/s, 12.96 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)
Feb. 1	1000	2,300	11.55	June 7	1600	4,520	14.03
Mar. 5	2100	*4,890	*14.30	July 1	0400	2,040	10.97
Mar. 20	1500	2,930	12.43	July 14	0700	2,530	11.93
Apr. 25	1600	3,970	13.56	Aug. 7	2400	3,420	13.00

Minimum discharge, 16 ft³/s, Oct. 9, 10, minimum gage height, 0.67 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	25	22	23	2290	325	874	2080	775	2000	1700	793
2	20	25	22	23	2220	380	796	1960	1010	1750	2190	735
3	20	24	21	23	2040	1600	713	1790	910	1440	2520	677
4	18	24	22	23	1810	3290	641	1590	769	1190	2560	751
5	18	23	21	23	1600	4650	592	1380	1380	800	2700	867
6	18	23	21	25	1440	4730	616	1180	2880	750	3080	928
7	17	22	22	29	1310	4140	661	1000	4320	1100	3370	856
8	17	22	27	39	1250	3530	637	903	4160	1020	3350	761
9	17	23	30	33	1200	2970	951	808	3780	890	3010	683
10	25	23	32	30	1080	2530	1530	713	3330	822	2530	613
11	62	23	29	37	952	2270	1770	642	2760	1260	2170	554
12	114	24	27	98	842	2040	1720	656	2270	1830	1930	505
13	125	24	26	167	751	1780	1530	656	1910	2310	1760	466
14	88	24	25	107	717	1600	1320	625	1590	2460	1570	430
15	66	23	25	78	843	1490	1130	715	1390	2160	1400	399
16	55	23	24	70	848	1380	988	808	1330	1850	1240	369
17	47	22	24	64	758	1280	885	868	1200	1620	1120	343
18	42	22	24	60	681	1570	1210	1010	996	1610	1010	325
19	39	22	24	62	621	2330	1820	1060	967	1840	853	304
20	36	21	24	422	571	2870	2040	1010	1090	1860	756	290
21	34	22	24	488	526	2740	2120	955	1070	1710	690	280
22	34	22	24	470	485	2420	2270	876	909	1900	613	273
23	34	22	23	450	460	2180	2350	744	798	1800	555	268
24	33	21	23	600	466	1930	3120	630	706	1700	665	259
25	32	21	22	800	441	1680	3910	611	796	1625	1020	247
26	31	21	22	800	411	1490	3830	613	1090	1700	1000	260
27	29	22	23	750	380	1310	3560	634	1320	1700	1070	301
28	28	22	22	812	350	1130	3170	891	1610	1650	1180	290
29	27	22	23	1280	---	978	2740	970	1850	1625	1030	271
30	27	22	23	1830	---	895	2350	860	1980	1750	881	356
31	26	---	23	2200	---	905	---	749	---	1850	810	---
TOTAL	1199	679	744	11916	27343	64413	51844	29987	50946	49572	50333	14454
MEAN	38.7	22.6	24.0	384	977	2078	1728	967	1698	1599	1624	482
MAX	125	25	32	2200	2290	4730	3910	2080	4320	2460	3370	928
MIN	17	21	21	23	350	325	592	611	706	750	555	247
CFSM	.06	.03	.03	.55	1.40	2.97	2.47	1.38	2.43	2.28	2.32	.69
IN.	.06	.04	.04	.63	1.45	3.42	2.76	1.59	2.71	2.63	2.67	.77

CAL YR 1990 TOTAL 60045 MEAN 165 MAX 1870 MIN 16 CFSM .24 IN. 3.19
WTR YR 1991 TOTAL 353430 MEAN 968 MAX 4730 MIN 17 CFSM 1.38 IN. 18.78

ST MARYS RIVER BASIN

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

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	.85	.79	.81	11.54	3.58	6.79	11.07	6.26	10.89	—	6.37
2	—	.85	.78	.81	11.38	3.93	6.38	10.78	7.46	10.26	11.30	6.05
3	—	.83	.78	.81	10.96	9.48	5.93	10.38	6.96	9.22	11.92	5.73
4	—	.83	.79	.81	10.43	12.82	5.53	9.76	6.24	—	11.97	6.14
5	—	.81	.78	.82	9.82	14.13	5.25	8.99	8.84	—	12.15	6.75
6	.71	.80	.78	.84	9.20	14.19	5.39	8.16	12.31	—	12.61	7.06
7	.69	.79	.80	.92	8.70	13.72	5.64	7.41	13.87	—	12.94	6.70
8	.69	.79	.88	1.09	8.46	13.11	5.51	6.94	13.74	—	12.92	6.19
9	.68	.80	.93	1.00	8.24	12.48	7.11	6.44	13.38	—	12.53	5.76
10	.86	.80	.98	.95	7.76	11.93	9.55	5.93	12.90	6.52	11.92	5.37
11	1.43	.81	.93	1.06	7.17	11.49	10.32	5.54	12.22	8.45	11.27	5.04
12	2.05	.84	.89	1.84	6.62	10.97	10.19	5.61	11.48	10.46	10.72	4.74
13	2.17	.84	.86	2.58	6.13	10.35	9.55	5.62	10.67	11.57	10.29	4.50
14	1.75	.83	.85	1.97	5.95	9.44	8.75	5.44	9.76	11.83	9.69	4.27
15	1.48	.81	.85	1.64	6.63	9.40	7.96	5.94	9.01	11.24	9.07	4.07
16	1.33	.81	.84	1.53	6.65	8.99	7.34	6.45	8.77	10.53	8.42	3.88
17	1.22	.80	.83	1.46	6.17	8.59	6.84	6.76	8.26	9.86	7.94	3.71
18	1.14	.79	.83	1.40	5.75	9.63	8.29	7.44	7.38	9.85	7.44	3.58
19	1.08	.78	.83	1.43	5.42	11.55	10.42	7.66	7.25	10.51	6.68	3.44
20	1.05	.78	.83	—	5.13	12.37	10.98	7.45	7.77	10.56	6.16	3.34
21	1.02	.78	.83	—	4.86	12.20	11.16	7.19	7.69	—	5.80	3.26
22	1.01	.79	.83	—	4.62	11.77	11.49	6.80	6.96	—	5.37	3.21
23	1.01	.78	.82	—	4.46	11.29	11.66	6.10	6.39	—	5.04	3.18
24	1.00	.78	.81	—	4.50	10.72	12.64	5.47	5.89	—	5.66	3.11
25	.98	.78	.80	—	4.33	10.07	13.50	5.36	6.36	—	7.47	3.01
26	.95	.78	.80	—	4.14	9.39	13.43	5.38	7.81	—	7.41	—
27	.93	.79	.80	—	3.95	8.70	13.15	5.49	8.74	—	7.69	3.42
28	.91	.80	.80	—	3.76	7.97	12.72	6.86	9.83	—	8.18	3.34
29	.89	.79	.81	—	—	7.29	12.20	7.26	10.51	—	7.51	3.20
30	.88	.79	.81	10.44	—	6.90	11.64	6.71	10.83	—	6.82	3.78
31	.87	—	.81	—	—	6.95	—	6.13	—	—	6.45	—
MEAN	—	.80	.83	—	6.88	10.17	9.24	7.05	9.18	—	—	—
MAX	—	.85	.98	—	11.54	14.19	13.50	11.07	13.87	—	—	—
MIN	—	.78	.78	—	3.76	3.58	5.25	5.36	5.89	—	—	—

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 Gage Height, Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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...	1400	2.89	78	76	5.5	5.6	24.0	33.0	4.3	51
NOV										
14...	1425	2.53	106	108	6.7	6.8	16.5	25.5	4.4	44
DEC										
12...	1435	1.69	127	130	6.9	7.1	11.5	20.0	5.6	51
JAN										
23...	1345	1.98	69	70	5.2	5.2	9.0	18.0	6.8	58
FEB										
13...	1330	3.04	80	81	4.1	4.2	12.0	23.0	5.8	54
MAR										
13...	1545	5.80	62	58	5.0	4.4	13.5	18.0	5.2	50
APR										
04...	1325	1.98	62	61	4.5	4.4	17.0	26.0	5.1	52
MAY										
15...	1300	2.49	53	53	4.7	4.7	28.0	33.0	4.8	61
JUN										
12...	1245	6.37	47	48	4.4	4.4	23.0	34.0	5.3	61
JUL										
31...	1330	3.29	44	44	4.6	4.5	26.0	30.5	3.9	48
AUG										
28...	1525	1.95	47	45	4.0	4.7	27.0	27.0	4.1	51
SEP										
18...	1400	1.00	50	49	5.4	5.3	28.5	33.0	4.3	55

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										
17...	240	2.0	1.6	20	5	<0.020	0.070	0.100	36	5.0
NOV										
14...	160	2.0	0.5	--	19	0.070	0.030	0.050	23	2.8
DEC										
12...	85	1.0	0.7	--	32	0.040	<0.030	0.170	13	1.6
JAN										
23...	160	13	2.0	790	3	0.060	0.140	0.080	35	--
FEB										
13...	300	3.0	1.0	20	<1	<0.020	<0.030	0.070	39	6.2
MAR										
13...	360	2.0	0.7	<20	<1	<0.020	0.030	0.080	39	6.5
APR										
04...	350	3.0	1.3	20	<1	0.060	0.040	0.080	51	1.4
MAY										
15...	400	3.0	1.0	20	2	0.030	0.060	0.100	51	7.1
JUN										
12...	360	3.0	0.9	20	<1	<0.020	<0.030	0.060	47	7.7
JUL										
31...	360	3.0	1.1	80	<1	<0.020	<0.030	0.150	38	8.6
AUG										
28...	240	7.0	1.9	--	1	0.030	0.070	0.040	37	6.4
SEP										
18...	400	2.0	1.0	--	5	0.060	0.090	0.220	39	8.6

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 Suwannoochee 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: Aug. 1-6. Records good, except those for the period of estimated daily discharges, which are fair.
Low flow at times affected by manipulation of water level at Mixons Ferry Dam.

AVERAGE DISCHARGE.--58 years (water years 1928-31, 1938-91), 1,052 ft³/s, 11.34 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)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 9	1800	6,410	14.88	Aug. 14	1400	4,510	13.24
Mar. 11	1500	*7,180	*15.35				

Minimum discharge, 1.0 ft³/s, Oct. 8-10.

SUWANNEE RIVER BASIN

02314500 SUWANNEE RIVER AT FARGO, 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	2.3	21	12	14	3080	2830	3410	734	1600	1410	2700	3180
2	2.1	21	12	14	3660	2870	3210	662	1520	1460	2900	3110
3	1.7	21	12	14	4150	3360	3000	598	1430	1490	3000	2970
4	1.4	21	12	14	4690	4010	2800	537	1340	1530	3100	2820
5	1.3	20	11	14	5340	4450	2620	482	1330	1530	3400	2670
6	1.2	20	10	14	5810	4710	2460	443	1380	1520	3800	2510
7	1.3	19	11	17	6150	5110	2300	431	1450	1500	4160	2370
8	1.1	19	13	17	6310	5850	2180	421	1570	1450	4390	2230
9	1.0	19	12	15	6370	6550	2090	424	1690	1410	4440	2100
10	8.6	22	11	15	6370	7010	2020	405	1760	1410	4430	1980
11	20	19	11	19	6340	7160	1970	383	1780	1520	4440	1860
12	29	18	11	26	6240	7150	1920	379	1750	1610	4470	1750
13	23	18	11	27	6080	7070	1850	372	1680	1630	4480	1640
14	31	17	11	24	5980	7020	1780	360	1630	1600	4500	1530
15	28	17	11	22	5800	6900	1690	361	1600	1570	4510	1380
16	25	17	11	24	5580	6740	1620	350	1510	1600	4450	1230
17	23	17	11	24	5320	6640	1550	333	1430	1610	4330	1100
18	21	16	11	23	5040	6650	1470	358	1370	1700	4150	991
19	19	15	12	39	4790	6620	1370	393	1340	1850	3930	898
20	18	15	15	161	4530	6490	1280	385	1320	2000	3720	812
21	19	15	13	180	4290	6290	1190	384	1240	2130	3510	734
22	25	15	13	236	4060	6070	1100	361	1160	2210	3300	666
23	24	14	12	382	3850	5800	1050	333	1100	2240	3110	606
24	22	14	12	507	3640	5530	1100	405	1060	2200	2970	552
25	21	14	12	700	3450	5180	1040	599	1050	2140	2840	515
26	21	13	11	858	3280	4840	997	680	1040	2060	2840	513
27	21	14	11	914	3120	4500	952	954	1090	2020	2960	508
28	22	14	12	1240	2960	4180	913	1230	1140	1950	3090	479
29	21	13	13	1690	---	3900	871	1430	1220	1870	3180	449
30	21	12	13	2090	---	3790	810	1590	1330	1830	3200	435
31	21	---	14	2550	---	3600	---	1640	---	1950	3200	---
TOTAL	497.0	510	367	11884	136280	168870	52613	18417	41910	54000	113500	44588
MEAN	16.0	17.0	11.8	383	4867	5447	1754	594	1397	1742	3661	1486
MAX	31	22	15	2550	6370	7160	3410	1640	1780	2240	4510	3180
MIN	1.0	12	10	14	2960	2830	810	333	1040	1410	2700	435
CFSM	.01	.01	.009	.30	3.86	4.32	1.39	.47	1.11	1.38	2.91	1.18
IN.	.01	.02	.01	.35	4.02	4.99	1.55	.54	1.24	1.59	3.35	1.32
CAL YR 1990	TOTAL	122145.6	MEAN	335	MAX	2390	MIN	1.0	CFSM	.27	IN	3.61
WTR YR 1991	TOTAL	643436.0	MEAN	1763	MAX	7160	MIN	1.0	CFSM	1.40	IN	19.00

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 1990 TO SEPTEMBER 1991

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 16...	0910	25	85	80	4.2	4.1	22.0	21.0	6.0	69
NOV 13...	1025	18	97	93	3.9	3.8	14.5	17.5	8.6	85
DEC 18...	1050	11	85	84	3.9	3.9	16.0	22.0	8.2	84
JAN 28...	1135	1270	95	84	4.1	3.8	10.0	18.0	9.5	85
FEB 19...	1055	4780	77	71	4.0	3.8	13.5	23.0	7.0	68
MAR 19...	1050	6620	52	--	4.2	4.2	15.5	16.0	7.0	71
APR 16...	0950	1630	84	--	3.9	3.8	23.0	23.0	6.3	74
MAY 21...	0945	387	86	81	3.9	3.7	25.0	22.0	5.4	66
JUN 18...	0945	M1380	70	--	3.9	3.8	26.0	26.0	7.8	98
JUL 24...	0855	2210	82	79	3.8	3.7	28.0	30.0	6.0	78
AUG 21...	0850	3530	75	75	3.9	3.8	25.0	23.0	5.8	71
SEP 18...	0910	1000	83	81	3.9	3.7	26.0	30.0	4.9	61

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH 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 16...	240	9.0	100	--	0.9	<20	<1	2
NOV 13...	280	4.0	120	--	1.3	20	<1	3
DEC 18...	180	2.0	--	180	--	<20	<1	<1
JAN 28...	280	2.0	130	--	1.3	230	<1	2
FEB 19...	350	2.0	--	170	1.2	20	<1	<1
MAR 19...	400	3.0	--	150	1.6	20	<1	<1
APR 16...	400	1.0	--	180	1.3	<20	--	<1
MAY 21...	400	3.0	--	170	1.2	<20	<1	1
JUN 18...	320	1.0	--	150	0.9	--	<1	<1
JUL 24...	500	<1.0	--	--	0.7	<20	<1	<1
AUG 21...	500	<1.0	--	--	0.8	<20	<1	2
SEP 18...	400	3.0	--	--	1.3	<20	<1	1

SUWANNEE RIVER BASIN

02314500 SUWANNEE RIVER AT FARGO, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 16...	0.070	<0.030	--	1.1	1.2	0.090	38	4.5
NOV 13...	0.030	<0.030	--	1.3	1.3	0.050	50	6.3
DEC 18...	<0.020	<0.030	--	0.70	--	0.080	36	6.1
JAN 28...	<0.020	<0.030	--	0.90	--	0.050	46	6.7
FEB 19...	0.020	0.130	1.1	1.2	1.2	0.060	59	8.4
MAR 19...	<0.020	<0.030	--	1.0	--	0.060	52	7.7
APR 16...	0.030	0.040	1.7	1.7	1.7	0.080	74	2.0
MAY 21...	<0.020	<0.030	--	1.3	--	0.080	70	9.2
JUN 18...	0.020	0.030	1.3	1.3	1.3	0.120	61	13
JUL 24...	<0.020	0.030	--	--	--	<0.030	67	12
AUG 21...	0.020	0.040	--	--	--	0.090	75	10
SEP 18...	<0.020	0.090	--	--	--	0.140	61	14

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, 10.4 mi upstream from Alapahoochee River (Grand Bay Creek), 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.--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.

AVERAGE DISCHARGE.--60 years (1932-91), 1,063 ft³/s, 10.31 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)
Feb. 1	1300	*16,700	*28.92	Aug. 10	2300	5,280	20.39
Mar. 10	2200	14,800	28.28				

Minimum discharge, 19 ft³/s, Oct. 8-10.

SUWANNEE RIVER BASIN

02317500 ALAPAHA RIVER AT STATENVILLE, GA.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	37	112	241	16600	1440	2120	1130	1470	1220	2440	1540
2	22	36	110	238	15900	2140	2260	1190	1190	1170	2950	1550
3	21	35	109	241	14500	4850	2470	1210	1070	1110	3340	1460
4	21	35	110	242	13300	6650	2490	1180	1070	1020	3620	1230
5	20	34	107	261	12300	8280	2300	1200	1230	902	4200	1020
6	20	34	104	316	11700	10500	2120	1240	1480	766	4350	876
7	20	34	105	401	11200	12400	2050	1290	1720	747	4490	764
8	19	33	111	476	10600	12600	2100	1350	1980	661	4760	679
9	19	33	111	516	10100	13300	2210	1370	2210	669	5050	604
10	26	37	110	517	9690	14500	2270	1270	2310	668	5240	534
11	43	39	107	722	9310	14400	2160	1140	2320	728	5260	476
12	183	43	107	1270	8860	13500	1890	1020	2330	794	5080	421
13	179	40	110	1350	8240	12700	1640	950	2330	742	4750	373
14	137	37	119	1310	7660	11900	1480	945	2330	636	4380	336
15	111	34	126	1300	6880	10900	1370	1000	2320	596	4250	305
16	89	34	135	1530	6250	9970	1250	1030	2250	650	4370	279
17	75	61	140	1760	5460	9110	1140	1040	2050	844	4370	255
18	69	143	141	2000	4510	8240	1070	1070	1680	1250	4150	236
19	63	172	146	2460	3670	7340	977	1130	1270	1420	3790	223
20	59	159	162	3530	3150	6500	908	1220	1100	1530	3420	206
21	57	143	169	4140	2840	5770	882	1240	1090	1600	3000	192
22	58	135	172	4590	2610	4850	825	1190	1050	1730	2450	180
23	55	131	170	4960	2400	3970	752	1080	944	1840	1930	169
24	54	133	176	5360	2190	3270	771	1030	787	1940	1730	160
25	51	131	202	6150	2000	2900	844	1030	666	2040	1720	165
26	47	128	255	7070	1820	2690	891	1030	744	2110	1650	165
27	44	124	295	8750	1660	2530	914	1090	1080	2100	1570	149
28	43	123	307	11600	1540	2400	942	1160	1020	2020	1610	140
29	42	120	296	13000	---	2290	998	1340	1100	1890	1590	132
30	39	116	276	14200	---	2240	1070	1460	1330	1900	1520	126
31	38	---	257	15800	---	2120	---	1360	---	2090	1540	---
TOTAL	1746	2394	4957	116301	206940	226250	45164	35985	45521	39383	104570	14945
MEAN	56.3	79.8	160	3752	7391	7298	1505	1161	1517	1270	3373	498
MAX	183	172	307	15800	16600	14500	2490	1460	2330	2110	5260	1550
MIN	19	33	104	238	1540	1440	752	945	666	596	1520	126
CFSM	.04	.06	.11	2.68	5.28	5.21	1.08	.83	1.08	.91	2.41	.36
IN.	.05	.06	.13	3.09	5.50	6.01	1.20	.96	1.21	1.05	2.78	.40
CAL YR 1990	TOTAL 251037		MEAN 688	MAX 6820	MIN 19	CFSM .49 IN. 6.67						
WTR YR 1991	TOTAL 844156		MEAN 2313	MAX 16600	MIN 19	CFSM 1.65 IN. 22.43						

SUWANNEE RIVER BASIN

02317500 ALAPAHA RIVER AT STATENVILLE, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to July 1974, September 1990 to current year.

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 1990 TO SEPTEMBER 1991

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 18...	1150	142	75	75	6.4	6.3	15.0	22.0	9.0	91
MAR 19...	1120	7350	36	38	5.6	4.8	16.0	18.0	8.4	86
JUN 18...	1020	1700	42	42	6.2	5.5	26.0	29.0	6.0	75
AUG 21...	0940	3060	40	40	5.4	5.0	26.0	25.0	5.7	71

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 18...	63	1.0	--	170	6	0.020	<0.030	0.140	18
MAR 19...	200	14	1.1	20	2	0.030	0.050	0.090	21
JUN 18...	140	19	1.1	--	3	0.070	<0.030	0.170	23
AUG 21...	240	5.0	1.3	20	3	0.050	0.030	0.120	30

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 1990 TO SEPTEMBER 1991

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...	0740	4.2	790	772	7.7	7.7	25.0	21.0	6.1	76
NOV 15...	0830	3.2	580	595	7.3	7.6	18.5	12.0	7.8	84
DEC 20...	1605	12	370	351	7.2	7.5	20.5	22.0	9.0	101
JAN 30...	0920	360	72	72	6.6	6.4	14.5	18.0	--	--
FEB 21...	0910	10	318	318	7.3	7.2	18.0	17.0	7.7	83
MAR 20...	0910	19	223	224	7.0	7.0	15.5	16.0	8.0	81
APR 18...	0820	13	300	301	7.2	7.3	21.5	17.0	6.0	70
MAY 22...	0720	11	265	259	7.2	7.2	23.0	22.0	6.2	74
JUN 20...	0550	10	360	352	7.1	7.1	26.0	22.0	4.8	60
JUL 22...	0810	33	212	210	7.0	7.0	26.0	28.0	5.8	73
AUG 22...	0800	9.0	400	402	7.3	7.4	27.0	25.0	5.7	73
SEP 23...	0810	4.0	805	792	6.5	7.7	25.0	20.0	7.4	91

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 18...	30	3.0	1.0	1700	143	3	4.08	0.120	1.31	4.5
NOV 15...	15	6.0	1.4	330	109	3	5.12	0.080	2.32	9.6
DEC 20...	55	19	1.5	220	73	6	0.170	<0.030	1.08	9.0
JAN 30...	120	36	1.6	1300	11	128	0.610	0.080	0.130	17
FEB 21...	45	8.0	2.1	130	59	6	2.04	0.040	0.880	12
MAR 20...	85	13	0.4	80	39	6	1.75	0.310	0.430	10
APR 18...	120	14	1.1	170	60	4	0.420	0.330	0.610	15
MAY 22...	80	7.0	1.4	310	55	3	1.86	0.300	0.440	12
JUN 20...	--	14	4.4	790	60	7	2.07	0.290	0.640	11
JUL 22...	70	9.0	1.1	1100	38	4	2.75	0.090	0.400	11
AUG 22...	30	6.0	0.4	170	83	11	2.05	0.100	0.540	7.1
SEP 23...	5	1.0	0.8	170	154	2	4.65	0.080	0.810	8.7

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, 19,500 ft³/s, Mar. 5, 1991, gage height, 22.44 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. 30	2200	11,500	19.65	July 19	1200	6,180	17.41
Mar. 5	1300	*19,500	*22.44	Aug. 2	1900	7,160	17.86
Mar. 20	1200	1,810	12.64	Aug. 16	1400	2,430	14.34
Apr. 1	1600	2,300	14.01				

Minimum discharge, 0.67 ft³/s, Oct. 8, 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	5.4	6.5	33	9860	340	2180	412	784	706	2160	801
2	1.4	4.5	6.6	38	8260	1110	2050	415	738	734	6310	721
3	1.2	5.4	7.0	40	5910	9260	1530	368	618	743	6450	588
4	1.1	6.1	7.9	41	4050	17200	1100	558	464	566	5990	467
5	.96	6.4	9.4	41	3030	19100	854	984	535	376	6120	361
6	.89	5.9	8.8	42	2350	15400	687	1100	863	368	5350	286
7	.89	5.2	8.7	52	1980	9160	571	927	729	442	3950	223
8	.72	4.7	12	77	1740	4980	487	664	497	543	3040	182
9	.81	5.8	13	82	1610	3490	475	450	353	773	2360	150
10	3.3	10	14	82	1520	2580	551	374	274	964	1850	118
11	23	7.3	19	332	1410	2000	650	453	214	859	1460	96
12	88	5.8	21	704	1280	1580	676	545	167	775	1310	80
13	17	5.3	21	655	1160	1310	607	763	132	939	1620	68
14	11	4.6	20	759	1240	1440	525	1010	107	1170	1830	59
15	7.7	4.6	23	863	1280	1430	452	1180	92	1340	2210	54
16	5.8	4.5	24	1200	1060	1140	384	1040	81	1620	2420	49
17	6.7	17	22	1700	862	959	327	751	70	3450	2320	42
18	9.8	25	19	1690	743	1140	288	582	120	5220	1980	37
19	14	23	21	1510	667	1600	260	466	233	6030	1540	33
20	15	18	49	2500	603	1800	279	453	257	5140	1180	30
21	15	14	52	4360	539	1750	314	502	233	4170	949	26
22	14	12	65	5330	491	1670	272	489	226	3240	794	23
23	12	9.4	66	4950	459	1620	237	403	262	2410	660	21
24	10	8.0	52	4840	432	1480	326	375	292	1780	517	18
25	8.8	7.2	42	7150	410	1200	344	459	361	1300	418	19
26	7.5	7.0	43	7580	393	910	398	423	374	954	362	21
27	6.7	6.4	48	7660	371	715	519	637	754	718	337	19
28	6.1	7.0	45	7860	352	587	583	760	805	729	312	15
29	6.0	6.8	40	7310	---	501	588	807	812	846	304	14
30	5.7	6.4	36	10600	---	624	520	782	753	943	443	14
31	5.5	---	34	10900	---	1210	---	779	---	1460	707	---
TOTAL	308.17	258.7	855.9	90981	54062	109286	19034	19911	12200	51308	67253	4635
MEAN	9.94	8.62	27.6	2935	1931	3525	634	642	407	1655	2169	154
MAX	88	25	66	10900	9860	19100	2180	1180	863	6030	6450	801
MIN	.72	4.5	6.5	33	352	340	237	368	70	368	304	14
CFSM	.02	.02	.05	5.85	3.85	7.02	1.26	1.28	.81	3.30	4.32	.31
IN.	.02	.02	.06	6.74	4.01	8.10	1.41	1.48	.90	3.80	4.98	.34
CAL YR 1990	TOTAL		84782.47	MEAN 232	MAX 2590	MIN .51	CFSM .46	IN. 6.28				
WTR YR 1991	TOTAL		430092.77	MEAN 1178	MAX 19100	MIN .72	CFSM 2.35	IN. 31.87				

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 1990 TO SEPTEMBER 1991

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 16...	1405	7.6	132	130	6.9	6.7	22.0	28.5	6.2	72
NOV 13...	1530	7.4	320	327	7.0	7.1	15.5	22.0	8.0	81
DEC 18...	1625	8.2	395	405	7.0	7.1	15.0	21.0	9.0	91
JAN 28...	1625	E8000	43	43	6.3	--	11.0	22.0	9.7	89
FEB 19...	1625	880	65	67	6.4	5.7	12.0	27.0	9.0	84
MAR 19...	1550	E1700	43	42	6.2	5.5	16.5	23.5	7.2	75
APR 16...	1500	500	66	80	6.6	6.2	23.0	30.0	6.3	74
MAY 20...	1505	680	68	63	6.4	6.1	24.0	22.5	5.8	70
JUN 09...	1330	340	70	--	6.0	--	21.0	24.0	6.3	--
18...	1500	87	103	103	6.7	6.4	26.0	24.0	5.2	65
JUL 24...	1430	E2000	51	48	5.8	5.6	27.0	31.0	5.4	69
AUG 21...	1520	900	51	50	6.0	5.7	26.0	31.0	5.6	70
SEP 18...	1440	35	94	89	6.5	6.2	27.0	32.0	5.0	64

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 16...	70	5.0	0.6	20	16	0.470	0.040	0.270	11
NOV 13...	40	2.0	1.4	140	41	0.040	0.030	0.180	13
DEC 18...	65	2.0	--	120	43	0.020	<0.030	0.260	15
JAN 28...	120	11	0.7	330	2	0.170	<0.030	0.060	22
FEB 19...	140	5.0	1.7	80	4	0.140	<0.030	0.190	24
MAR 19...	160	10	1.2	2300	4	0.080	<0.030	0.110	21
APR 16...	240	5.0	1.3	<20	11	0.210	0.080	0.240	29
MAY 20...	220	9.0	--	130	9	0.160	0.060	0.230	25
JUN 09...	200	--	--	--	--	--	--	--	22
18...	140	6.0	0.9	130	14	0.190	0.050	0.220	20
JUL 24...	240	5.0	1.3	20	5	0.070	0.070	0.130	35
AUG 21...	200	5.0	1.2	<20	6	0.080	0.040	0.170	30
SEP 18...	180	5.0	0.9	20	12	0.280	0.080	0.300	20

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 1990 TO SEPTEMBER 1991

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 16...	1315	7.2	103	101	7.1	6.9	22.0	28.0	6.9	80
NOV 13...	1430	5.2	100	101	7.0	6.7	16.0	23.0	8.2	83
DEC 18...	1545	4.8	95	94	6.8	6.9	16.5	22.0	9.0	94
JAN 28...	1550	E3400	42	41	6.4	--	11.0	23.0	9.6	88
FEB 19...	1550	540	67	67	6.5	5.8	12.0	27.0	9.0	84
MAR 19...	1505	1400	46	44	6.4	5.7	16.0	22.5	7.4	76
APR 16...	1410	195	70	82	6.3	6.2	23.0	29.5	6.4	75
MAY 20...	1410	700	67	65	6.4	6.1	24.5	22.5	5.4	66
JUN 18...	1410	135	94	95	6.7	6.5	26.0	27.0	5.9	74
JUL 24...	1325	1650	46	45	6.0	5.8	27.0	30.0	5.4	69
AUG 21...	1445	380	52	51	6.0	5.9	26.0	30.0	5.5	69
SEP 18...	1340	11	110	104	6.7	6.6	26.0	31.0	5.0	63

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 16...	40	5.0	0.6	110	23	0.560	0.250	0.140	6.2
NOV 13...	20	5.0	1.6	330	20	0.600	0.260	0.070	7.8
DEC 18...	25	2.0	--	<20	20	0.500	0.150	0.150	4.8
JAN 28...	120	14	0.6	490	1	0.150	<0.030	0.060	22
FEB 19...	150	5.0	1.3	50	5	0.140	<0.030	0.130	25
MAR 19...	160	8.0	1.2	110	3	0.080	<0.030	0.120	21
APR 16...	160	5.0	1.2	20	11	0.180	0.060	0.220	25
MAY 20...	220	9.0	--	230	9	0.150	0.060	0.240	25
JUN 18...	130	9.0	1.0	--	13	0.530	0.030	0.220	14
JUL 24...	240	6.0	0.8	330	6	0.070	0.030	0.100	31
AUG 21...	200	7.0	1.2	20	7	0.130	0.040	0.140	24
SEP 18...	80	5.0	1.1	490	20	0.890	0.330	0.180	11

SUWANNEE RIVER BASIN

02318014 INDIAN CREEK NEAR BERLIN, GA.

LOCATION.--Lat 31°05'43", long 83°35'04", Colquitt County, Hydrologic Unit 03110204, at county road 1753, 1.0 mile upstream from mouth, 1,000 ft downstream from Bear Creek, and 3.0 miles northeast of Berlin.

PERIOD OF RECORD.--July 1991 to September 1991.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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...	1520	7.53	60	58	6.3	6.2	27.0	32.0	5.7	73
SEP 18...	1530	3.65	120	164	6.7	6.6	26.0	31.0	5.0	63

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 24...	220	12	1.0	810	9	0.260	0.030	0.130	23
SEP 18...	80	5.0	1.6	360	26	0.330	0.030	0.130	14

SUWANNEE RIVER BASIN

02318500 WITHLACOOCHIE 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: July 30-Sept. 10. Records good, except those for the period of estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--17 years (water years 1929-31, 1938-48, 1990-91), 1,263 ft³/s, 11.59 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. 31	1800	23,900	26.97	July 3	1100	5,270	16.03
Mar. 7	0200	*35,900	*29.12	July 21	0600	9,230	20.70
Apr. 3	1200	3,450	12.13	Aug. 7	---	unknown	unknown
May 1	0500	2,690	10.12	Aug. 18	---	unknown	unknown
May 18	0200	5,810	16.86				

Minimum discharge, 11 ft³/s, Dec. 1, 2, 3, 18, and 19.

SUWANNEE RIVER BASIN

02318500 WITHLACOOCHIE RIVER NEAR QUITMAN, GA.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	15	12	16	22900	1020	2530	2670	2050	4030	4400	2000
2	18	15	12	17	21200	2430	3140	2540	1970	4870	5200	1800
3	15	15	12	18	19400	8260	3430	2330	1990	5240	6100	1600
4	14	16	17	17	17300	17800	3250	1940	1830	5030	7100	1200
5	15	16	22	15	14700	26100	2970	1740	1490	4410	7900	900
6	16	17	16	15	12200	33300	2880	1810	1380	3710	8900	700
7	17	17	15	16	10100	34900	2780	1940	1460	3390	9400	500
8	18	17	18	27	8500	28700	2470	1920	1490	2780	9200	400
9	17	18	22	29	7240	21200	1980	1920	1400	2430	8900	300
10	36	51	17	59	6160	15700	1790	2080	1240	2460	8300	250
11	79	36	14	607	5210	11600	1890	2200	972	3020	6600	226
12	139	22	13	1270	4510	8910	2010	2670	722	3130	5200	187
13	62	19	13	1740	4020	7110	2110	3000	555	2880	4600	154
14	37	17	13	1910	3750	5710	2080	3520	443	2950	4100	129
15	25	15	13	2020	3640	4630	1850	4130	364	3730	4200	110
16	19	14	12	2620	3580	3980	1510	4980	313	4550	5000	94
17	16	14	13	2880	3360	3450	1220	5640	270	5600	5800	86
18	17	15	13	3140	2950	3170	1050	5740	261	6770	6600	82
19	25	13	16	3710	2490	3130	914	5240	354	8030	6400	78
20	21	13	101	5630	2110	3330	852	4380	467	8930	4800	69
21	17	13	59	7060	1820	3610	1100	3310	960	9200	3200	61
22	17	13	33	9050	1620	3810	1360	2320	1510	9060	2300	55
23	20	13	24	11000	1480	3920	1620	1800	2010	8720	1600	51
24	18	13	22	12900	1370	3950	1850	1620	2180	8060	1300	49
25	16	14	24	16200	1270	3870	1880	1620	2220	7050	1000	54
26	15	13	18	18300	1200	3610	1790	1670	2420	5910	920	62
27	15	13	16	18100	1130	3130	2020	2000	3270	4660	900	47
28	15	13	16	18400	1070	2530	2270	2360	3040	3450	850	42
29	15	14	16	19100	---	1950	2500	2330	3100	2760	1200	44
30	14	14	15	21800	---	1600	2640	2240	3390	3200	1800	40
31	14	---	15	23600	---	1770	---	2130	---	3800	2200	---
TOTAL	803	508	642	201266	186280	278180	61736	85790	45121	153810	145970	11370
MEAN	25.9	16.9	20.7	6492	6653	8974	2058	2767	1504	4962	4709	379
MAX	139	51	101	23600	22900	34900	3430	5740	3390	9200	9400	2000
MIN	14	13	12	15	1070	1020	852	1620	261	2430	850	40
CFSM	.02	.01	.01	4.39	4.50	6.06	1.39	1.87	1.02	3.35	3.18	.26
IN.	.02	.01	.02	5.06	4.68	6.99	1.55	2.16	1.13	3.87	3.67	.29
CAL YR 1990	TOTAL 271005		MEAN 742		MAX 8130		MIN 11		CFSM .50 IN. 6.81			
WTR YR 1991	TOTAL 1171476		MEAN 3210		MAX 34900		MIN 12		CFSM 2.17 IN. 29.45			

SUWANNEE RIVER BASIN

02318500 WITHLACOOCHIEE 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 1990 TO SEPTEMBER 1991

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										
16...	1210	18	115	115	7.0	6.9	24.0	28.0	5.1	61
NOV										
13...	1330	18	312	323	7.1	7.3	16.0	21.0	8.2	84
DEC										
18...	1450	12	258	270	7.0	7.4	15.0	21.0	9.6	97
JAN										
28...	1450	18600	45	43	6.4	--	10.5	21.0	9.9	90
FEB										
19...	1450	2440	66	66	6.7	5.9	13.0	27.0	7.9	76
MAR										
19...	1415	3130	52	50	6.4	6.0	16.0	21.0	7.5	77
APR										
16...	1315	1490	65	64	6.6	6.4	24.0	28.5	6.9	83
MAY										
20...	1310	4330	54	52	6.2	6.1	25.0	23.0	5.1	62
JUN										
18...	1305	242	82	80	6.7	6.5	27.0	29.0	6.0	76
JUL										
24...	1220	8050	46	44	6.0	5.7	27.0	29.0	5.4	69
AUG										
21...	1330	2950	53	52	6.2	6.0	26.0	30.0	5.4	67
SEP										
18...	1230	82	98	98	6.7	6.6	27.0	31.0	6.4	81

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									
16...	40	3.0	0.7	20	22	0.880	<0.030	0.680	8.1
NOV									
13...	20	<1.0	1.3	80	40	4.74	0.040	1.90	6.9
DEC									
18...	25	1.0	--	130	34	3.89	0.050	1.59	7.4
JAN									
28...	140	15	0.5	490	2	0.190	<0.030	0.050	36
FEB									
19...	120	7.0	1.0	50	6	0.190	<0.030	0.120	20
MAR									
19...	160	12	1.0	170	6	0.150	<0.030	0.120	18
APR									
16...	200	10	1.3	20	12	0.190	0.050	0.180	21
MAY									
20...	220	24	--	60	9	0.110	0.060	0.180	2.2
JUN									
18...	120	14	0.9	--	13	0.620	0.030	0.210	13
JUL									
24...	280	7.0	1.5	270	7	0.070	0.030	0.090	26
AUG									
21...	160	10	1.2	80	8	0.140	0.040	0.140	24
SEP									
18...	95	6.0	0.9	<20	14	0.980	<0.030	0.280	13

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: Feb. 16 to Mar. 10. Records good, except those less than 20 ft³/s, which are fair, and those for the period of estimated daily discharges, which are fair to poor.

AVERAGE DISCHARGE.--11 years (water years 1981-91), 256 ft³/s, 12.92 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)
Jan. 22	0100	4,170	13.49	May 13	0600	1,750	11.87
Jan. 26	0700	6,320	14.61	July 1	0300	1,990	12.10
Jan. 31	0500	7,530	15.09	July 9	1000	1,210	11.22
Mar. 4	unknown	*13,300	*17.15	Aug. 4	0300	2,750	12.69
Apr. 1	1700	1,270	11.31	Aug. 15	1300	1,420	11.51

No flow on many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	5520	200	1170	400	335	1940	1930	101
2	.00	.00	.00	.00	3990	9000	1080	326	279	1530	2040	107
3	.00	.00	.00	.00	2940	11000	795	291	223	1010	2290	85
4	.00	.00	.00	.00	2210	12600	617	305	176	626	2420	66
5	.00	.00	.00	.00	1600	9400	502	313	143	388	1630	52
6	.00	.00	.00	.00	1180	5300	387	295	117	357	1160	41
7	.00	.00	.00	.00	981	3550	296	322	96	494	810	33
8	.00	.00	.00	.00	814	2600	260	316	80	895	730	26
9	.00	.00	.00	.00	692	1600	315	331	68	1200	605	22
10	.00	.00	.00	.00	648	1200	460	456	57	1170	543	18
11	.00	.00	.00	42	629	843	638	792	46	1070	679	15
12	.00	.00	.00	282	631	622	856	1230	37	783	753	11
13	.00	.00	.00	143	572	485	831	1650	31	589	780	8.9
14	.00	.00	.00	122	586	469	706	1250	26	696	1170	7.1
15	.00	.00	.00	265	707	530	525	918	30	846	1380	5.5
16	.00	.00	.00	611	770	529	370	928	51	820	1160	4.1
17	.00	.00	.00	624	770	515	305	913	48	850	767	2.9
18	.00	.00	.00	524	680	573	443	727	32	887	516	2.2
19	.00	.00	.00	876	550	665	653	514	27	844	393	2.4
20	.00	.00	.00	2210	460	840	758	391	27	909	438	5.0
21	.00	.00	.00	3420	380	1030	775	291	29	928	335	1.6
22	.00	.00	.00	3780	320	1100	931	218	34	972	362	.84
23	.00	.00	.00	2860	280	936	1070	176	78	939	349	.57
24	.00	.00	.00	2720	240	738	1090	182	161	734	281	.40
25	.00	.00	.00	4330	220	568	821	238	205	483	242	.33
26	.00	.00	.00	6070	200	424	655	233	225	328	188	.26
27	.00	.00	.00	4750	190	320	553	283	471	245	149	.19
28	.00	.00	.00	3850	180	256	505	380	475	193	125	.13
29	.00	.00	.00	3280	---	216	545	375	684	261	112	.09
30	.00	.00	.00	5910	---	250	509	334	1570	456	99	.07
31	.00	---	.00	7110	---	548	---	331	---	1000	90	---
TOTAL	0.00	0.00	0.00	53779.00	28940	68907	19421	15709	5861	24443	24526	619.58
MEAN	.000	.000	.000	1735	1034	2223	647	507	195	788	791	20.7
MAX	.00	.00	.00	7110	5520	12600	1170	1650	1570	1940	2420	107
MIN	.00	.00	.00	.00	180	200	260	176	26	193	90	.07
CFSM	.00	.00	.00	6.45	3.84	8.26	2.41	1.88	.73	2.93	2.94	.08
IN.	.00	.00	.00	7.44	4.00	9.53	2.69	2.17	.81	3.38	3.39	.09

CAL YR 1990 TOTAL 47934.41 MEAN 131 MAX 1470 MIN .00 CFSM .49 IN. 6.63
WTR YR 1991 TOTAL 242205.58 MEAN 664 MAX 12600 MIN .00 CFSM 2.47 IN. 33.49

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 1990 TO SEPTEMBER 1991

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)
JAN 28...	1525	3300	38	37	6.4	--	11.0	24.0	9.2	85
FEB 19...	1520	--	55	55	6.9	5.9	14.0	27.0	8.0	78
MAR 19...	1435	570	52	51	6.7	6.2	16.0	21.0	7.5	77
APR 16...	1340	450	60	56	6.3	6.2	23.5	28.0	6.2	74
MAY 20...	1340	3400	58	55	6.3	6.1	25.0	23.0	5.0	61
JUN 18...	1335	E60	76	74	6.7	6.3	26.0	27.0	4.8	60
JUL 24...	1245	590	52	50	6.3	6.1	27.0	29.0	5.5	70
AUG 21...	1400	290	55	55	6.5	6.2	26.0	30.0	6.5	81
SEP 18...	1300	E4.0	110	106	6.5	6.4	28.0	31.0	3.4	44

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)
JAN 28...	140	26	1.0	330	2	0.290	<0.030	0.060	16
FEB 19...	100	11	1.4	20	5	0.200	<0.030	0.110	16
MAR 19...	140	17	0.9	490	7	0.190	0.070	0.130	15
APR 16...	240	17	1.9	330	10	0.160	0.090	0.180	23
MAY 20...	200	21	--	790	10	0.160	0.060	0.230	21
JUN 18...	150	15	1.5	--	13	0.250	0.090	0.190	14
JUL 24...	260	11	0.9	1700	6	0.110	0.040	0.140	23
AUG 21...	120	11	1.2	640	9	0.150	0.080	0.170	16
SEP 18...	60	4.0	3.3	160000	20	0.620	0.340	0.270	14

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 1990 TO SEPTEMBER 1991

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 16...	1130	135	240	243	7.6	7.6	23.0	28.0	5.1	60
NOV 13...	1245	124	218	--	7.4	7.9	19.5	21.0	7.8	85
DEC 18...	1355	118	258	258	7.2	8.0	18.5	23.0	8.2	89
JAN 28...	1340	21600	45	47	6.0	6.1	10.0	19.5	9.8	88
FEB 19...	1320	4270	67	96	7.1	6.7	12.0	24.5	8.2	77
MAR 19...	1300	5710	60	56	6.9	6.5	16.0	21.0	7.6	78
APR 16...	1200	2920	72	68	6.7	6.6	22.5	27.0	6.1	71
MAY 20...	1150	6540	63	48	6.3	6.1	24.5	22.0	5.4	66
JUN 18...	1140	510	145	140	7.2	7.1	26.0	31.0	6.0	75
JUL 24...	1055	10300	45	42	5.9	5.8	27.0	28.0	5.6	71
AUG 21...	1150	4570	62	61	6.5	6.3	26.0	29.0	5.4	67
SEP 18...	1105	310	192	187	7.1	7.4	26.0	30.0	4.7	59

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 16...	20	1.0	--	0.2	20	76	<1
NOV 13...	10	<1.0	--	0.8	20	88	<1
DEC 18...	15	1.0	--	--	<20	98	<1
JAN 28...	140	19	--	1.6	330	5	3
FEB 19...	110	8.0	--	1.4	50	33	3
MAR 19...	130	11	--	1.1	70	13	3
APR 16...	150	12	--	1.3	20	16	4
MAY 20...	150	24	--	--	110	9	6
JUN 18...	120	6.0	--	0.7	--	50	1
JUL 24...	240	5.0	65	0.8	330	6	4
AUG 21...	160	7.0	28	0.9	90	15	7
SEP 18...	50	14	13	0.7	<20	74	<1

SUWANNEE RIVER BASIN

02318960 WITHLACOOCHEE RIVER NEAR CLYATTVILLE, GA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 16...	0.200	<0.030	--	--	--	0.420	5.5
NOV 13...	0.180	<0.030	--	--	--	0.230	5.1
DEC 18...	0.310	0.060	--	--	--	0.360	3.4
JAN 28...	0.150	0.040	--	--	--	0.070	1.8
FEB 19...	0.170	<0.030	--	--	--	0.130	17
MAR 19...	0.140	0.030	--	--	--	0.110	23
APR 16...	0.190	0.050	--	--	--	0.260	21
MAY 20...	0.080	<0.030	--	--	--	0.170	23
JUN 18...	0.340	0.050	--	--	--	0.250	11
JUL 24...	0.060	0.050	0.75	0.80	0.86	0.110	28
AUG 21...	0.140	0.040	0.66	0.70	0.84	0.160	21
SEP 18...	0.430	<0.030	--	0.20	0.63	0.180	7.2

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 1990 TO SEPTEMBER 1991

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...	0850	3.8	835	829	7.2	7.2	20.5	20.5	3.7	42
NOV 14...	0925	6.5	465	465	6.7	6.9	13.5	12.5	4.0	39
DEC 19...	0935	26	650	638	6.6	6.9	16.5	16.0	4.1	43
JAN 29...	0925	770	54	52	6.5	5.9	11.0	16.0	8.1	75
FEB 20...	0920	125	101	101	6.7	6.4	14.0	18.5	6.9	68
MAR 25...	0850	140	87	84	6.7	6.3	18.0	20.0	5.7	61
APR 17...	0815	125	115	111	6.5	6.5	22.0	22.5	5.6	64
MAY 21...	0815	265	68	63	6.5	6.3	21.5	23.0	5.3	61
JUN 19...	0815	120	152	143	6.7	6.6	24.0	25.0	5.0	60
JUL 25...	0825	120	93	91	6.4	6.4	26.0	27.0	5.0	63
AUG 22...	0845	170	75	75	6.6	6.4	24.0	26.0	5.5	66
SEP 19...	0840	--	950	820	7.1	7.2	26.0	26.5	3.5	44

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 17...	20	<1.0	0.6	270	92	<1	6.67	0.030	2.36	5.1
NOV 14...	35	5.0	1.3	140	40	0	4.99	0.530	0.830	11
DEC 19...	50	4.0	--	6300	61	2	6.11	0.100	1.15	13
JAN 29...	120	20	1.1	110	5	2	0.500	0.100	0.190	19
FEB 20...	80	7.0	1.0	80	12	2	0.740	0.040	0.190	12
MAR 25...	150	19	0.9	70	11	4	0.530	0.080	0.320	16
APR 17...	200	18	1.9	1300	13	6	1.12	0.440	0.450	22
MAY 21...	200	56	--	460	10	8	0.540	0.130	0.330	17
JUN 19...	90	23	4.0	15500	23	13	0.990	2.82	0.390	12
JUL 25...	120	20	0.9	490	13	6	0.520	0.140	0.310	17
AUG 22...	110	14	0.3	790	10	6	<0.020	0.040	0.210	13
SEP 19...	10	1.0	2.8	790	79	<1	8.80	0.160	1.22	8.7

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 1990 TO SEPTEMBER 1991

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...	0955	--	540	533	7.7	7.7	21.0	25.5	8.0	91
NOV 14...	1040	13	240	249	7.3	7.3	13.0	19.0	8.5	81
DEC 19...	1045	17	410	411	7.2	7.3	15.5	18.0	9.0	92
JAN 29...	1040	5180	46	44	6.7	--	11.0	16.0	8.9	82
FEB 20...	1030	570	82	94	6.7	6.4	12.5	22.5	9.6	91
MAR 25...	1000	1130	63	61	6.6	6.3	19.0	22.0	6.3	69
APR 17...	0910	410	90	87	6.5	6.5	22.0	22.0	5.7	66
MAY 21...	0905	770	71	67	6.5	6.3	23.0	24.0	5.3	63
JUN 19...	0905	90	134	136	6.8	6.6	25.0	26.0	4.7	58
JUL 25...	0920	1030	60	59	6.4	6.3	26.5	27.0	5.1	64
AUG 22...	0945	880	62	62	6.5	6.4	24.0	28.0	5.8	70
SEP 19...	0940	42	245	241	6.9	6.8	26.0	27.0	4.6	58

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...	20	2.0	0.9	50	92	3.33	0.040	2.31	4.5
NOV 14...	50	11	1.4	140	38	1.30	0.040	0.740	12
DEC 19...	40	4.0	--	310	55	1.80	0.080	1.03	10
JAN 29...	120	21	1.1	790	4	0.320	0.080	0.090	17
FEB 20...	90	8.0	0.8	70	10	0.410	0.030	0.160	15
MAR 25...	100	15	0.6	<20	10	E0.210	0.060	0.220	15
APR 17...	200	11	1.2	50	14	0.380	0.180	0.280	21
MAY 21...	200	22	--	110	13	0.330	0.070	0.250	7.5
JUN 19...	100	12	1.5	490	15	0.640	0.120	0.340	12
JUL 25...	160	17	0.7	50	11	0.220	0.060	0.210	19
AUG 22...	110	15	0.3	80	10	0.390	0.050	0.160	14
SEP 19...	40	6.0	1.0	50	41	1.33	0.130	0.440	10

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 1990 TO SEPTEMBER 1991

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...	1050	20	735	731	7.4	7.5	21.0	26.5	7.5	85
NOV 14...	1115	42	950	954	7.4	7.4	13.0	20.0	8.8	84
DEC 19...	1125	63	405	401	6.9	7.2	15.0	19.5	9.0	91
JAN 28...	1120	8600	41	39	6.5	--	11.0	16.0	10.0	92
FEB 20...	1110	1570	105	104	6.7	6.3	12.5	25.0	9.0	85
MAR 25...	1040	2450	75	72	6.5	6.2	19.0	25.5	6.4	70
APR 17...	0950	1310	120	117	6.6	6.4	22.0	23.5	5.6	65
MAY 21...	0945	2150	98	91	6.5	6.3	23.0	24.0	5.0	59
JUN 19...	0945	400	98	100	6.7	6.6	25.5	29.0	5.5	68
JUL 25...	1000	2820	67	65	6.3	6.2	26.0	28.0	5.0	63
AUG 22...	1030	1200	77	76	6.4	6.4	24.5	29.0	5.0	61
SEP 19...	1020	110	245	177	7.0	6.9	26.0	27.5	5.2	65

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- PENDE (MG/L)
OCT 17...	25	4.0	18	0.6	330	66	3
NOV 14...	50	8.0	23	2.1	1700	49	4
DEC 19...	50	8.0	24	--	2200	61	8
JAN 28...	100	22	32	0.9	330	4	4
FEB 20...	90	9.0	32	0.9	20	10	4
MAR 25...	110	15	33	0.8	35	9	3
APR 17...	200	12	51	1.3	110	13	5
MAY 21...	200	29	53	--	440	12	7
JUN 19...	110	20	33	1.6	80	15	12
JUL 25...	140	17	--	0.7	20	10	7
AUG 22...	120	11	--	0.2	20	14	12
SEP 19...	60	11	--	0.6	20	32	4

OCHLOCKONEE RIVER BASIN

02328200 OCHLOCKONEE RIVER NEAR CALVARY, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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...	1.99	0.030	0.57	0.60	2.6	0.450	5.8
NOV 14...	1.75	0.070	1.0	1.1	2.9	0.760	12
DEC 19...	1.41	0.040	0.46	0.50	1.9	0.470	9.2
JAN 28...	0.240	0.060	0.44	0.50	0.74	0.110	17
FEB 20...	0.330	0.140	0.46	0.60	0.93	0.130	11
MAR 25...	0.190	0.080	0.42	0.50	0.69	0.210	24
APR 17...	0.390	0.140	0.46	0.60	0.99	0.220	16
MAY 21...	0.270	0.060	0.54	0.60	0.87	0.200	18
JUN 19...	0.620	0.080	0.62	0.70	1.3	0.270	3.0
JUL 25...	0.170	0.070	--	--	--	0.140	18
AUG 22...	0.210	0.070	--	--	--	0.170	12
SEP 19...	1.24	0.070	--	--	--	0.200	15

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.--10 years, 128 ft³/s, 38.89 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)
Dec. 23	1815	1,590	3.99	Aug. 26	1100	2,350	4.86
Mar. 29	1100	*2,950	*5.33				

Minimum discharge, 50 ft³/s, Oct. 2, 3, 6, 7.

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	54	96	74	193	163	203	280	263	165	144	110	150
2	52	93	75	176	155	313	253	238	239	137	108	139
3	52	91	269	186	150	451	235	223	215	128	105	131
4	75	90	206	172	146	357	225	252	190	130	97	126
5	58	97	134	164	142	273	313	374	170	125	97	120
6	52	92	116	157	157	245	262	417	160	119	97	118
7	53	86	108	163	147	234	241	303	154	119	103	114
8	58	84	101	165	140	232	261	268	150	121	96	111
9	54	128	95	155	135	216	266	299	146	115	106	107
10	141	129	92	170	132	201	251	285	141	109	95	103
11	106	104	89	496	128	193	230	269	138	107	90	102
12	243	98	88	335	125	188	225	259	166	103	121	99
13	125	93	87	257	160	259	259	244	162	100	108	97
14	96	91	89	224	183	212	256	231	152	96	120	95
15	82	88	86	230	154	195	244	231	143	95	108	93
16	75	88	85	258	138	184	228	247	138	94	96	91
17	72	86	86	221	147	185	218	238	133	153	90	89
18	433	84	98	202	169	228	211	233	140	256	90	165
19	184	83	107	198	185	196	572	215	165	202	87	131
20	133	82	108	192	330	185	370	207	154	151	106	99
21	116	81	115	179	249	178	302	209	164	129	85	93
22	261	80	127	169	212	174	271	200	154	117	82	89
23	278	82	658	164	199	174	252	203	137	110	81	87
24	188	78	464	163	178	164	236	192	134	108	79	97
25	157	76	248	157	171	160	224	188	129	108	99	119
26	135	76	196	152	163	156	219	181	183	125	1020	95
27	123	75	190	150	156	156	256	202	242	127	339	87
28	115	84	183	149	151	183	258	199	217	117	217	83
29	108	81	181	144	---	1060	300	183	174	125	217	81
30	103	75	192	205	---	493	307	174	156	116	187	79
31	99	---	224	189	---	333	---	167	---	120	163	---
TOTAL	3881	2671	4971	6135	4665	7981	8025	7394	4911	3906	4599	3190
MEAN	125	89.0	160	198	167	257	268	239	164	126	148	106
MAX	433	129	658	496	330	1060	572	417	242	256	1020	165
MIN	52	75	74	144	125	156	211	167	129	94	79	79
CFSM	2.80	1.99	3.58	4.43	3.74	5.75	6.00	5.35	3.67	2.82	3.31	2.37
IN.	3.23	2.22	4.14	5.11	3.88	6.64	6.68	6.15	4.09	3.25	3.83	2.65
CAL YR 1990	TOTAL 60935		MEAN 167		MAX 2000	MIN 32	CFSM 3.74		IN 50.71			
WTR YR 1991	TOTAL 62329		MEAN 171		MAX 1060	MIN 52	CFSM 3.83		IN 51.87			

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 current year.

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 1990 TO SEPTEMBER 1991

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 13...	0840	100	18	17	6.7	6.3	9.0	10.0	9.8	88
JAN 17...	1010	245	15	14	6.8	6.3	7.0	9.5	11.2	97
MAR 14...	1130	240	15	16	6.8	6.7	9.0	11.0	11.2	103
MAY 16...	1330	270	16	13	7.1	6.4	17.0	29.0	11.4	124
JUL 16...	1510	105	--	16	7.0	6.8	21.5	31.0	8.3	--
SEP 10...	0915	110	17	15	7.1	6.7	18.0	23.0	9.0	99

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)
NOV 13...	1.0	0.6	220	5	0.050	<0.030	0.060	6.8
JAN 17...	2.0	0.8	20	3	0.030	<0.030	0.040	1.4
MAR 14...	1.0	0.1	130	6	0.030	<0.030	<0.020	3.3
MAY 16...	5.0	1.5	640	7	<0.020	<0.030	0.050	1.4
JUL 16...	2.0	0.9	700	6	0.030	<0.030	0.050	1.2
SEP 10...	1.0	0.6	2300	7	0.030	<0.030	<0.020	1.3

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.--34 years, 822 ft³/s, 35.44 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 17,000 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)
Mar. 29	1730	7,180	7.21	Aug. 26	1230	*10,000	*9.17

Minimum daily discharge, 338 ft³/s, Oct. 7.

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	368	490	386	902	908	805	1280	1370	963	903	935	868
2	351	476	392	822	832	1680	1170	1200	1040	872	933	821
3	343	460	675	820	797	1900	1080	1110	1080	818	891	795
4	381	461	1050	853	764	1580	1040	1290	1030	802	729	756
5	417	474	638	774	743	1220	1300	1840	948	825	681	723
6	342	492	547	742	795	1100	1210	2640	901	770	671	703
7	338	454	510	762	794	1130	1100	1600	868	740	661	689
8	362	440	488	861	739	1110	1100	1350	857	751	746	669
9	355	509	464	812	713	1080	1370	1460	853	743	729	662
10	430	888	457	766	702	996	1270	1670	835	707	691	623
11	572	585	441	3100	681	947	1110	1510	811	688	652	614
12	1100	526	433	1900	665	920	1070	1540	982	669	964	605
13	697	493	458	1300	709	1450	1210	1360	1230	642	841	589
14	526	475	427	1100	1170	1190	1240	1300	1030	628	996	585
15	463	461	415	1010	864	1030	1170	1270	990	624	986	581
16	421	451	420	1340	766	956	1090	1310	1040	598	761	565
17	403	447	423	1080	771	930	1040	1330	1080	847	687	551
18	1230	434	436	974	979	1170	1000	1230	908	1400	699	601
19	880	431	563	934	906	1030	2310	1340	1040	1170	699	1080
20	615	426	503	965	1550	957	1780	1170	1090	906	913	664
21	543	419	652	888	1310	923	1380	1200	1010	812	683	577
22	856	417	594	835	1070	901	1240	1140	973	750	640	540
23	1500	421	1390	812	1070	891	1150	1130	894	696	615	554
24	938	408	2350	814	956	863	1100	1100	872	722	581	547
25	776	399	1150	805	901	835	1050	1050	836	1080	618	763
26	680	403	907	784	866	817	1020	1030	1100	812	5980	656
27	605	398	878	767	822	812	1130	1100	1400	855	2310	560
28	572	426	956	753	795	896	1480	1330	1370	840	1410	507
29	545	471	869	733	---	3170	1840	1090	1080	791	1220	506
30	518	398	873	1010	---	2350	1880	1020	1010	966	1150	509
31	506	---	1030	1200	---	1470	---	979	---	877	977	---
TOTAL	18633	14033	21775	31218	24638	37109	38210	41059	30121	25304	32049	19463
MEAN	601	468	702	1007	880	1197	1274	1324	1004	816	1034	649
MAX	1500	888	2350	3100	1550	3170	2310	2640	1400	1400	5980	1080
MIN	338	398	386	733	665	805	1000	979	811	598	581	506
CFSM	1.91	1.49	2.23	3.20	2.79	3.80	4.04	4.20	3.19	2.59	3.28	2.06
IN.	2.20	1.66	2.57	3.69	2.91	4.38	4.51	4.85	3.56	2.99	3.78	2.30
CAL YR 1990	TOTAL	336756	MEAN	923	MAX	14100	MIN	270	CFSM	2.93	IN	39.77
WTR YR 1991	TOTAL	333612	MEAN	914	MAX	5980	MIN	338	CFSM	2.90	IN	39.40

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 the analyzing code 80113 are by the U.S. Geological Survey. Laboratory chemical analyses with the analyzing 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 1990 TO SEPTEMBER 1991

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 13...	0745	81341	494	29	28	7.0	6.8	10.0	4.5	10.1	93
JAN 17...	0930	81341	1080	30	27	6.7	6.7	8.0	8.5	10.6	93
MAR 14...	1020	81341	1180	28	25	6.8	6.7	11.0	12.0	10.6	101
MAY 16...	0830	81341	1300	27	24	7.0	6.5	18.0	28.0	8.2	90
AUG 15...	1515	81341	927	32	30	7.2	6.9	21.5	26.0	8.5	100

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	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 13...	81341	4.0	0.6	170	8	0.280	<0.030	0.070	4.6
JAN 17...	81341	13	1.4	410	6	0.470	0.030	0.060	2.2
MAR 14...	81341	15	0.1	490	7	0.490	0.080	0.040	1.4
MAY 16...	81341	17	1.6	700	7	0.310	<0.030	0.070	1.2
AUG 15...	81341	22	0.9	1700	8	0.400	0.030	0.090	4.2

APALACHICOLA RIVER BASIN

02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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						
22...	1351	80113	639	15.0	14	24
22...	1356	80113	639	15.0	20	35
DEC						
06...	1234	80113	516	6.0	5	7.0
06...	1239	80113	516	6.0	5	7.0
JAN						
17...	1209	80113	1070	8.5	5	14
17...	1214	80113	1070	8.5	3	8.7
FEB						
28...	1204	80113	811	7.5	6	13
28...	1209	80113	811	7.5	6	13
APR						
11...	1124	80113	1130	15.0	20	61
11...	1129	80113	1130	15.0	19	58
MAY						
23...	1235	80113	1140	18.0	12	37
23...	1240	80113	1140	18.0	15	46
JUN						
28...	1011	80113	1420	17.5	44	169
28...	1016	80113	1420	17.5	46	176
AUG						
15...	0949	80113	966	19.5	35	91
15...	0954	80113	966	19.5	34	89

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
AUG											
27...	0840	80113	2450	<1	<1	2	8	27	64	90	98
27...	0841	80113	2450	<1	<1	3	14	62	94	100	100
27...	0842	80113	2450	<1	<1	1	16	77	96	98	100
27...	0843	80113	2450	<1	<1	4	17	67	97	99	100

APALACHICOLA RIVER BASIN

02333105 DICKS CREEK NEAR NEELS GAP, GA.

LOCATION.--Lat 34°40'48", long 83°56'15", Lumpkin County, Hydrologic Unit 03130001, at Forest Service Road 216, 0.1 mile above Waters Creek, 1.6 miles below Blood Mountain Creek, and 4.0 miles southwest of Neels Gap.

DRAINAGE AREA.--9.01 mi², revised.

PERIOD OF RECORD.--July 1991 to September 1991.

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 1990 TO SEPTEMBER 1991

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 16...	1410	12	16	15	6.9	6.7	19.0	26.5	9.0	102
SEP 10...	0830	26	17	14	7.3	6.4	16.0	19.5	8.7	93

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)
JUL 16...	1.0	<5	0.6	<20	7	1
SEP 10...	2.0	<5	0.3	150	8	3

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA 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 16...	0.030	<0.030	0.20	0.23	0.050	1.2
SEP 10...	<0.020	<0.030	<0.10	--	<0.020	<1.0

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.

WATER-DISCHARGE RECORDS

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.--53 years (water years 1930-31, 1941-91), 364 ft³/s, 32.31 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)
Dec. 23	2215	3,510	7.57	Aug. 26	1645	*8,470	*13.65
Mar. 29	1445	4,840	9.41	Aug. 29	0830	4,250	8.63

Minimum daily discharge, 125 ft³/s, Oct. 7.

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	133	184	144	450	417	418	675	707	483	370	329	659
2	130	179	142	395	374	1150	589	592	790	565	315	730
3	126	174	394	411	352	1160	532	538	757	403	309	531
4	139	171	561	423	335	1020	496	726	512	363	276	474
5	153	176	307	369	322	730	632	1170	446	367	265	436
6	127	189	250	346	357	625	589	1570	411	331	256	420
7	125	168	225	355	357	674	521	942	391	309	261	415
8	136	163	213	419	327	610	603	755	378	321	296	391
9	135	193	195	382	311	562	923	893	369	337	324	372
10	162	347	184	368	301	505	821	829	357	296	282	357
11	193	218	179	1620	290	476	599	759	345	296	257	346
12	432	195	174	1000	282	458	543	827	364	274	485	336
13	251	182	171	662	314	935	582	712	406	261	368	322
14	188	177	171	535	598	663	560	639	415	250	477	323
15	166	172	165	480	406	557	523	610	394	242	414	316
16	148	172	166	579	351	506	485	598	388	242	317	316
17	143	167	165	465	354	481	459	587	358	376	283	305
18	675	177	181	421	497	638	443	544	371	1380	308	352
19	381	172	245	406	465	534	1130	531	487	773	334	630
20	257	166	215	417	1200	491	837	507	559	529	596	357
21	215	156	277	374	862	468	654	503	422	453	321	322
22	565	149	256	349	628	454	581	487	365	380	290	305
23	893	154	1040	335	597	447	536	481	337	361	269	296
24	452	150	1500	338	501	424	503	464	323	321	251	305
25	340	145	648	330	460	407	472	449	330	321	264	442
26	283	143	463	317	439	396	456	435	473	376	4820	369
27	247	144	457	310	408	391	573	531	660	339	1630	313
28	227	152	484	305	387	433	869	649	648	422	829	296
29	209	168	425	296	---	2280	1140	476	482	363	1740	284
30	199	148	432	480	---	1450	1000	493	428	472	1270	277
31	191	---	554	568	---	857	---	424	---	369	711	---
TOTAL	8021	5251	10983	14505	12492	21200	19326	20428	13449	12462	19147	11597
MEAN	259	175	354	468	446	684	644	659	448	402	618	387
MAX	893	347	1500	1620	1200	2280	1140	1570	790	1380	4820	730
MIN	125	143	142	296	282	391	443	424	323	242	251	277
CFSM	1.69	1.14	2.31	3.06	2.92	4.47	4.21	4.31	2.93	2.63	4.04	2.53
IN.	1.95	1.28	2.67	3.53	3.04	5.15	4.70	4.97	3.27	3.03	4.66	2.82
CAL YR 1990	TOTAL	171397	MEAN	470	MAX	7640	MIN	102	CFSM	3.07	IN	41.67
WTR YR 1991	TOTAL	168861	MEAN	463	MAX	4820	MIN	125	CFSM	3.03	IN	41.06

APALACHICOLA RIVER BASIN

02333500 CHESTATEE RIVER NEAR DAHLONEGA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1957 to April 1959, 1963, Jan. 1972 to May 1976, Oct. 1989 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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						
22...	0945	80113	215	15.0	6	3.5
22...	0950	80113	215	15.0	6	3.5
DEC						
06...	1517	80113	248	6.0	6	4.0
06...	1522	80113	248	6.0	8	5.4
JAN						
17...	1526	80113	446	9.0	4	4.8
17...	1531	80113	446	9.0	5	6.0
FEB						
20...	1445	80113	1650	--	269	1200
20...	1450	80113	1650	--	264	1180
20...	1640	80113	1530	--	275	1140
20...	1645	80113	1530	--	243	1000
21...	1029	80113	870	--	43	101
21...	1034	80113	870	--	41	96
28...	1458	80113	373	8.5	4	4.0
28...	1503	84213	373	8.5	4	4.0
MAR						
29...	1418	80113	4750	--	1920	24600
29...	1528	80113	4740	--	1730	22100
29...	1533	80113	4740	--	1540	19700
29...	1803	80113	3800	--	955	9800
29...	1808	80113	3800	--	892	9150
29...	2033	80113	3280	--	629	5570
29...	2038	80113	3280	--	580	5140
APR						
08...	0915	80113	495	16.0	28	37
08...	0920	80113	495	16.0	28	37
MAY						
20...	0940	80113	504	17.0	45	61
20...	0945	80113	504	17.0	41	56
JUN						
28...	1414	80113	592	20.0	52	83
28...	1419	80113	592	20.0	58	93
AUG						
15...	1245	80113	396	20.0	30	32
15...	1250	80113	396	20.0	31	33

APALACHICOLA RIVER BASIN

02333500 CHESTATEE RIVER NEAR DAHLONEGA, GA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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
FEB 20...	1640	80113	1530	80	--	--	--	--
MAR 29...	1413	84213	4750	79	93	98	100	100
29...	1418	80113	4750	71	--	--	--	--
29...	1803	80113	3800	68	--	--	--	--

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 20...	1321	1670	<1	<1	1	26	63	87	95	98	100
20...	1322	1670	<1	1	9	80	99	100	100	100	100
AUG 27...	1118	1520	<1	<1	19	50	81	94	100	100	100
27...	1119	1520	<1	1	12	47	70	81	89	100	100
27...	1120	1520	<1	1	6	34	60	77	86	95	100
27...	1121	1520	<1	1	5	14	28	48	59	68	76

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.--WDR GA-79-1: 1972-78 (maximum gage heights only). WDR GA-90-1: 1986-89 (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.--50 years, 2,078 ft³/s, 27.13 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, 10,800 ft³/s, Dec. 13, 5.79 ft; minimum daily discharge, 355 ft³/s, Mar. 16.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4340	3490	628	1150	1170	1150	1190	3330	586	1610	2620	2370
2	3150	1390	813	1170	377	619	1200	3340	595	1660	2650	1980
3	3130	636	1580	1170	368	451	1200	3350	1960	1500	592	4090
4	3170	809	1190	1320	1130	1120	1190	612	1860	1510	602	4100
5	3200	2370	1610	613	1130	1110	1210	685	1880	1550	2330	4520
6	618	2310	1200	614	1130	1110	621	6240	1860	594	2310	4520
7	801	3020	1330	1250	1130	1100	624	7310	1910	599	2200	3310
8	3300	3030	631	1770	1280	1110	1310	7250	590	2330	2250	609
9	3220	3070	635	2620	603	366	1190	7030	594	2240	2300	2710
10	3230	635	1240	1170	609	356	1200	6980	2690	2210	602	2630
11	3200	817	2730	1230	1210	707	1190	4160	2600	2230	605	3390
12	3290	3240	3720	383	1140	723	1210	4150	2610	2290	2350	3420
13	634	3160	3750	385	1130	732	614	5220	2610	1520	2250	3400
14	811	3160	3770	1150	1130	733	619	5150	2640	594	2260	612
15	3300	1700	459	1150	1220	731	1280	5170	589	3540	2260	1640
16	3230	1940	798	1150	1900	355	1190	5210	593	2240	2300	4950
17	2750	632	2050	1150	369	359	1190	5540	2840	2250	601	4890
18	2750	814	1570	1160	1600	734	1190	598	428	2260	1260	4890
19	2770	1590	1190	377	1130	733	1230	598	4080	3010	2720	4900
20	630	1500	1180	375	1160	733	613	3420	4070	583	2630	4910
21	809	1510	372	1160	1130	755	623	3350	4100	593	2640	611
22	3350	1490	389	1160	1140	781	1300	3340	589	3060	2640	614
23	2060	1550	772	1160	373	411	1170	3350	595	3360	2670	5730
24	1540	635	1570	1160	369	415	1190	3370	3770	3360	613	3290
25	1540	817	1560	1300	1100	1150	1180	594	3720	3350	616	5680
26	1580	1590	1170	467	1100	1140	1200	596	1850	3370	1270	5720
27	645	1520	1170	377	1260	1150	613	2720	1140	1990	5980	5710
28	819	1510	1310	1150	1100	1180	622	2540	1190	2220	4830	611
29	1580	1520	466	1140	---	1170	2010	2610	593	2700	4840	614
30	1500	1570	381	1160	---	482	3360	2610	598	2610	5910	5730
31	1510	---	1180	1150	---	472	---	2630	---	2620	4220	---
TOTAL	68457	53025	42414	32741	28488	24138	34529	113053	55730	65553	73921	102151
MEAN	2208	1767	1368	1056	1017	779	1151	3647	1858	2115	2385	3405
MAX	4340	3490	3770	2620	1900	1180	3360	7310	4100	3540	5980	5730
MIN	618	632	372	375	368	355	613	594	428	583	592	609
MEAN†	1335	957	1666	2438	2177	3082	3173	3356	2055	1899	2531	1454
CFSM†	1.28	.92	1.60	2.34	2.09	2.96	3.05	3.23	1.98	1.83	2.43	1.40
IN†	1.48	1.03	1.84	2.70	2.18	3.41	3.40	3.72	2.21	2.11	2.80	1.56

CAL YR 1990 TOTAL 1047232 MEAN 2869 MAX 9570 MIN 330 MEAN† 2368 CFSM† 2.28 IN† 30.92
WTR YR 1991 TOTAL 694200 MEAN 1902 MAX 7310 MIN 355 MEAN† 2180 CFSM† 2.10 IN† 28.47

†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.--7 years, 56.7 ft³/s, 16.45 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)
Mar. 30	0100	*1,320	*9.12	May 6	0900	1,310	9.10

Minimum discharge, 18.0 ft³/s, Sept. 24.

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	22	26	30	50	91	72	102	89	62	37	35	44
2	22	25	29	45	73	331	86	72	54	36	35	54
3	22	25	79	43	64	171	77	63	51	34	32	39
4	23	25	113	43	59	159	71	92	49	35	30	33
5	24	26	46	40	56	97	72	246	46	49	29	31
6	23	30	40	39	54	83	71	867	43	38	29	30
7	22	26	37	46	53	86	65	171	42	34	28	30
8	22	25	39	50	50	74	66	104	41	34	28	29
9	21	46	35	46	48	70	82	106	40	33	29	28
10	26	86	33	47	46	64	131	99	39	32	33	26
11	44	40	32	301	44	60	73	92	38	30	29	25
12	81	35	32	143	43	59	68	106	39	31	37	25
13	36	33	32	80	48	146	79	84	42	29	34	23
14	30	32	31	64	79	94	71	74	48	27	54	23
15	28	31	31	59	51	73	68	70	67	26	51	22
16	26	31	31	81	44	66	63	130	43	30	35	22
17	25	31	31	59	47	63	62	248	40	65	32	21
18	105	30	34	52	54	72	61	96	39	118	35	20
19	42	30	46	57	48	63	406	161	42	273	32	21
20	31	30	63	77	256	59	164	102	53	69	30	24
21	29	30	71	58	151	57	97	88	83	53	28	21
22	69	30	48	51	106	56	80	80	54	44	26	20
23	151	30	73	48	156	55	72	76	41	38	25	19
24	51	30	174	59	92	53	66	70	38	85	25	22
25	37	29	65	70	76	51	60	66	44	86	29	60
26	32	29	51	55	70	50	58	62	73	42	96	36
27	30	29	48	51	62	49	122	74	68	49	60	25
28	29	33	50	49	58	119	164	82	59	49	38	23
29	28	42	45	47	---	491	119	64	48	40	71	22
30	27	31	44	227	---	650	150	56	41	37	346	22
31	26	---	73	230	---	137	---	53	---	35	77	---
TOTAL	1184	976	1586	2367	2079	3730	2926	3843	1467	1618	1498	840
MEAN	38.2	32.5	51.2	76.4	74.3	120	97.5	124	48.9	52.2	48.3	28.0
MAX	151	86	174	301	256	650	406	867	83	273	346	60
MIN	21	25	29	39	43	49	58	53	38	26	25	19
CFSM	.82	.69	1.09	1.63	1.59	2.56	2.08	2.65	1.05	1.12	1.03	.60
IN.	.94	.78	1.26	1.88	1.65	2.96	2.33	3.05	1.17	1.29	1.19	.67

CAL YR 1990	TOTAL	30062	MEAN	82.4	MAX	2540	MIN	13	CFSM	1.76	IN	23.89
WTR YR 1991	TOTAL	24114	MEAN	66.1	MAX	867	MIN	19	CFSM	1.41	IN	19.17

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.—79 years (water years 1903-46, 1957-91), 2,278 ft³/s, 26.44 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, 10,400 ft³/s, May 6, gage height, 11.49 ft; minimum daily, 551 ft³/s, Mar. 17.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	2920	2720	995	1380	1500	1340	1410	3770	1950	1420	2920	3320	
2	3620	2520	874	1370	691	1990	1420	3720	824	1860	2900	3150	
3	3330	858	1530	1370	609	1030	762	3720	1780	1740	1480	3490	
4	3390	768	1800	1400	1310	1510	1370	2410	2150	1730	754	4420	
5	3400	2020	1870	803	1350	1440	1370	1790	2120	1770	1900	4820	
6	2010	2410	1370	763	1340	1410	1420	6470	2120	1180	2500	4860	
7	764	2520	1390	1480	1340	1430	776	8290	2130	757	2490	4410	
8	2930	3150	812	1840	1380	1390	864	7870	1270	2050	2470	1520	
9	3350	3240	761	2480	811	661	1440	8020	746	2480	2580	2250	
10	3390	2100	1080	2030	768	593	1590	7610	2190	2460	1470	2890	
11	3420	819	2300	2130	1430	867	1400	6030	2890	2430	787	3140	
12	3660	2330	3520	1010	1320	892	1400	4870	2890	2530	2120	3680	
13	1400	3370	3990	686	1330	1100	1440	5120	2890	1940	2510	3610	
14	813	3370	4070	1350	1410	1010	805	5650	2970	1030	2570	1970	
15	2600	3010	1940	1380	1400	924	1210	5660	1600	2560	2580	1340	
16	3350	1420	742	1430	2090	582	1370	5920	766	2600	2510	4040	
17	2990	1400	1700	1380	683	551	1360	6070	2000	2610	1290	5180	
18	3210	767	2090	1360	1770	889	1350	3320	1910	3210	1260	5160	
19	2980	1520	1050	638	1390	887	2060	1060	3110	3680	2180	5220	
20	1650	1600	1440	638	2080	870	1320	2690	4490	2200	2850	5190	
21	757	1580	1370	1320	1770	863	831	3820	4480	851	2850	2350	
22	3250	1580	581	1360	1540	891	847	3800	2100	2210	2830	725	
23	2750	1570	723	1340	918	589	1390	3770	806	3600	2850	4020	
24	1460	1060	2060	1380	693	557	1350	3770	3110	3970	1620	5150	
25	1750	739	1820	1450	981	1210	1320	2040	4080	3890	770	4300	
26	1720	1600	1720	795	1320	1280	1330	809	3100	3660	1360	6370	
27	1600	1610	1380	562	1450	1280	1530	1970	1430	2530	4100	6000	
28	784	1640	1420	1280	1300	1510	1060	3300	1500	2440	5790	2720	
29	1600	1670	790	1330	---	1700	1490	2680	1070	3220	5220	727	
30	1610	1630	563	1900	---	2480	3470	2940	799	2890	6270	4690	
31	1610	---	1410	1910	---	865	---	2910	---	2880	6160	---	
TOTAL	74068	56591	49161	41545	35974	34591	40755	131869	65271	74378	81941	110712	
MEAN	2389	1886	1586	1340	1285	1116	1358	4254	2176	2399	2643	3690	
MAX	3660	3370	4070	2480	2090	2480	3470	8290	4490	3970	6270	6370	
MIN	757	739	563	562	609	551	762	809	746	757	754	725	
CAL YR 1990	TOTAL 1174489		MEAN 3218		MAX 9960		MIN 563		MEAN† 2717		CFSTM† 2.32		IN† 31.54
WTR YR 1991	TOTAL 796856		MEAN 2183		MAX 8290		MIN 551		MEAN† 2461		CFSTM† 2.10		IN† 28.56

†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.--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 and DeKalb Counties; return flows above station by Gwinnett County.

AVERAGE DISCHARGE.--33 years (water years 1942-59, 1977-91), 2,073 ft³/s, 23.07 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, 12,700 ft³/s, Sept. 2, gage height, 9.28 ft; minimum daily discharge, 493 ft³/s, Dec. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1810	1900	1110	1330	1540	1430	1320	3700	2700	902	2860	3710
2	3710	3070	777	1310	808	2420	1430	3620	804	1790	2880	4910
3	3150	952	1570	1310	556	1300	849	3610	1190	1740	2200	3100
4	3200	608	1980	1330	1130	1490	1380	3720	2110	1730	628	4400
5	3250	1640	1800	856	1310	1450	1340	2110	2110	1760	1100	4770
6	2650	2350	1360	687	1310	1410	1450	5800	2090	1590	2450	4910
7	610	2310	1320	1340	1320	1420	774	8380	2090	662	2590	4690
8	2170	3040	880	1590	1330	1390	784	7830	1770	1310	2400	2300
9	3160	3200	694	2300	890	763	1480	7970	677	2430	2620	1420
10	3280	2510	970	2340	723	529	1760	7560	1410	2400	2150	2860
11	3340	713	1910	2360	1300	793	1410	6290	2810	2370	681	2910
12	3710	1800	3250	1320	1280	885	1430	5030	2840	2490	1440	3600
13	2090	3260	3880	686	1310	1190	1530	5230	2860	2140	2480	3580
14	672	3260	3930	1200	1400	1070	823	5600	2970	1360	2650	2860
15	1690	3240	2530	1380	1370	939	821	5650	2460	1470	2600	813
16	3180	1340	615	1420	1890	648	1390	5850	695	2810	2470	3390
17	2930	1500	1480	1360	889	525	1340	6050	1120	2700	1890	5150
18	3440	658	2140	1340	1470	818	1350	4370	2690	3460	994	5120
19	2890	1360	1180	749	1430	897	2220	1330	2140	3610	1610	5280
20	2380	1590	1460	614	2440	879	1880	1820	4600	3190	2810	5180
21	648	1570	1500	1160	1950	868	886	3740	4590	815	2800	3410
22	2680	1560	520	1330	1690	899	838	3720	3180	1240	2790	641
23	3030	1550	660	1320	1170	645	1440	3670	779	3480	2800	2810
24	1730	1170	2070	1380	755	526	1360	3660	2130	4230	2380	5790
25	1670	660	1850	1430	901	1030	1330	2860	4140	4050	679	4050
26	1610	1430	1780	917	1380	1250	1300	792	3880	3620	1260	6430
27	1730	1600	1340	530	1470	1260	1630	1200	1570	2910	3410	6040
28	655	1660	1370	1090	1390	1680	1300	3400	1540	2300	5880	3900
29	1400	1690	876	1270	---	2320	1210	2640	1390	3110	5290	666
30	1620	1650	493	2250	---	2870	2880	2930	752	2870	6430	3580
31	1610	---	1310	2170	---	1020	---	2820	---	2850	6390	---
TOTAL	71695	54841	48605	41669	36402	36614	40935	132952	66087	73389	81612	112270
MEAN	2313	1828	1568	1344	1300	1181	1364	4289	2203	2367	2633	3742
MAX	3710	3260	3930	2360	2440	2870	2880	8380	4600	4230	6430	6430
MIN	610	608	493	530	556	525	774	792	677	662	628	641

CAL YR 1990	TOTAL 1152025	MEAN 3156	MAX 10900	MIN 493	MEAN† 2655	CFSM† 2.18	IN† 29.55
WTR YR 1991	TOTAL 797071	MEAN 2184	MAX 8380	MIN 493	MEAN† 2462	CFSM† 2.02	IN† 27.40

†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.

AVERAGE DISCHARGE.--31 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)
July 19	1900	871	7.78	Sept. 2	0500	*1,010	*8.30

Minimum daily discharge, 32 ft³/s, Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	54	55	114	164	156	145	140	88	75	65	89
2	34	52	53	97	122	655	126	110	126	67	62	706
3	32	51	142	94	109	528	114	95	95	62	55	243
4	40	51	270	95	100	228	104	202	83	86	50	112
5	49	54	112	84	95	159	101	472	80	123	46	89
6	37	64	87	80	93	137	100	728	71	77	45	83
7	35	55	76	96	94	161	96	393	67	65	206	74
8	50	52	75	131	89	136	117	168	63	63	85	67
9	41	83	66	121	84	131	192	152	63	62	71	61
10	68	152	61	104	82	114	524	139	62	56	106	55
11	149	85	58	478	80	113	341	149	58	53	128	52
12	268	68	56	420	79	108	159	213	57	59	184	52
13	115	61	56	184	92	284	153	197	58	50	467	50
14	79	57	57	134	197	211	133	140	76	47	212	50
15	60	54	56	119	110	139	122	122	108	43	200	48
16	52	53	56	139	88	122	109	226	69	42	104	47
17	48	54	56	108	94	116	100	158	67	79	82	43
18	180	52	70	97	114	130	96	157	70	362	73	43
19	148	51	125	102	100	115	263	261	81	779	68	73
20	74	51	132	152	531	104	182	145	162	329	82	90
21	60	50	158	109	620	101	123	127	125	124	65	53
22	184	50	105	94	264	102	106	116	116	103	60	47
23	529	52	135	89	325	99	99	112	80	83	56	44
24	254	52	320	101	192	94	94	104	71	81	53	65
25	116	50	146	119	149	91	87	97	94	78	55	197
26	88	49	109	106	137	87	84	91	239	69	350	126
27	73	49	107	97	118	85	132	126	181	75	415	71
28	66	63	116	94	111	206	217	166	146	65	124	57
29	60	106	96	143	---	443	184	105	125	66	135	52
30	57	62	91	363	---	528	227	91	89	61	178	49
31	55	---	172	410	---	202	---	83	---	100	103	---
TOTAL	3135	1837	3274	4674	4433	5885	4630	5585	2870	3484	3985	2888
MEAN	101	61.2	106	151	158	190	154	180	95.7	112	129	96.3
MAX	529	152	320	478	620	655	524	728	239	779	467	706
MIN	32	49	53	80	79	85	84	83	57	42	45	43
CFSM	1.40	.85	1.47	2.09	2.20	2.64	2.14	2.50	1.33	1.56	1.79	1.34
IN.	1.62	.95	1.69	2.41	2.29	3.04	2.39	2.89	1.48	1.80	2.06	1.49

CAL YR 1990	TOTAL 52141	MEAN 143	MAX 3870	MIN 20	CFSM 1.98 IN. 26.94
WTR YR 1991	TOTAL 46680	MEAN 128	MAX 779	MIN 32	CFSM 1.78 IN. 24.12

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.

REVISED RECORDS.--WDR GA-90-1: 1988-89.

GAGE.--Water-stage recorder. Datum of gage is 843.48 ft above National Geodetic Vertical Datum of 1929 (leveling by global positioning system equipment); 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, 854.02 ft, Sept. 2, 1991; minimum elevation, 846.53 ft, Sept. 11, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 854.02 ft, Sept. 2, 1991; minimum elevation, 846.91 ft, May 29.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	850.78	852.65	853.36	853.32	853.42	853.03	853.38	851.51	852.76	852.11	851.64	851.80
2	851.71	852.86	853.18	853.28	853.44	852.97	853.36	851.35	853.35	852.22	852.08	852.81
3	851.68	853.41	853.07	853.22	853.17	853.25	853.10	851.24	852.07	852.16	853.12	851.75
4	851.34	852.84	853.11	853.17	852.77	853.21	852.45	852.37	852.08	852.06	852.92	851.80
5	851.84	852.17	853.37	853.46	853.20	853.40	852.57	853.20	851.90	852.15	851.39	851.52
6	852.98	852.69	853.23	853.32	853.23	853.29	852.98	852.31	851.91	853.05	852.13	851.68
7	852.92	852.75	853.19	853.23	853.31	853.22	853.37	851.92	852.04	853.05	852.16	851.66
8	851.56	852.67	853.39	853.14	853.29	853.27	852.90	851.93	853.07	851.31	852.06	852.97
9	852.04	852.65	853.22	853.19	853.47	853.38	852.50	852.09	853.05	852.11	852.53	851.88
10	852.39	853.25	852.93	853.30	853.38	852.93	852.18	851.76	851.33	852.16	853.18	851.75
11	851.57	853.25	852.66	853.02	853.24	852.56	852.29	852.73	851.85	851.93	853.20	851.87
12	852.25	852.34	852.87	853.49	853.28	853.04	852.51	852.81	851.98	852.22	852.08	851.58
13	853.33	852.37	852.68	853.48	853.22	853.42	853.08	851.36	852.07	852.73	851.89	851.76
14	853.27	852.18	852.79	853.29	853.34	853.32	853.49	851.00	852.04	853.39	851.84	852.99
15	851.94	853.02	853.02	853.30	853.23	853.31	853.03	851.37	853.30	851.64	852.03	852.87
16	851.76	853.24	852.93	853.32	852.75	853.38	852.66	851.83	853.19	851.72	851.89	852.28
17	851.98	853.25	852.82	853.29	853.42	852.88	852.47	852.33	851.37	851.51	853.07	851.65
18	851.66	853.11	853.31	853.28	852.97	852.52	852.56	852.98	852.86	851.65	852.66	851.97
19	851.64	852.82	852.99	853.37	853.22	853.12	852.86	853.22	851.81	851.44	851.47	852.53
20	853.07	853.04	852.31	853.16	853.17	853.27	853.27	851.72	852.02	853.10	850.79	851.48
21	853.13	852.93	852.79	852.89	853.20	853.33	853.47	851.67	851.54	853.45	850.42	853.10
22	852.18	852.92	852.98	853.11	853.32	853.38	853.08	851.83	853.32	851.76	851.48	852.97
23	852.71	853.11	851.98	853.19	853.45	853.38	852.55	851.69	853.25	851.62	851.82	851.27
24	852.54	853.41	853.13	853.27	853.46	852.73	852.23	851.49	851.27	852.21	852.99	852.48
25	851.96	853.14	853.28	853.34	853.24	852.09	852.25	853.09	852.19	851.96	852.82	851.54
26	851.88	852.90	853.39	853.51	852.90	853.22	852.19	853.37	852.02	850.57	852.65	852.16
27	852.66	853.21	853.21	853.21	853.05	853.15	852.78	852.10	853.31	852.72	851.23	851.68
28	852.94	853.17	853.37	852.57	852.90	852.93	853.36	851.61	853.05	852.58	852.17	853.27
29	852.41	853.10	853.47	853.18	---	852.93	852.47	851.35	853.30	851.89	851.16	853.06
30	852.73	853.13	853.07	853.37	---	852.96	851.18	851.44	853.21	851.79	852.35	851.38
31	852.79	---	852.89	853.36	---	853.44	---	851.45	---	851.96	852.14	---
MEAN	852.25	852.92	853.03	853.25	853.22	853.11	852.75	852.00	852.42	852.14	852.11	852.12
MAX	853.33	853.41	853.47	853.51	853.47	853.44	853.49	853.37	853.35	853.45	853.20	853.27
MIN	850.78	852.17	851.98	852.57	852.75	852.09	851.18	851.00	851.27	850.57	850.42	851.27
WTR YR 1991	MEAN 852.60		MAX 853.51	MIN 850.42								

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. 1-4, 13-17, 19-22, 25-31, Mar. 10-12, Apr. 3-5, 16-17, May 8-11, 13-18, 20-31, July 20-31, Aug. 1-27, Sept. 21-24, 27-30. Records good, except those for the periods of estimated daily discharges, which are fair to poor.

AVERAGE DISCHARGE.--7 years, 46.7 ft³/s, 21.72 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.--Peak discharges greater than a 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)
Jan. 30	1315	1,080	8.44	May 5	2230	*2,650	*10.91
Feb. 20	0430	1,080	8.43	May 19	0930	2,060	10.06
Mar. 1	2345	1,180	8.66	July 4	1800	1,120	8.53
Mar. 29	1500	1,870	9.78	Aug. 9	1945	946	7.98
Apr. 9	2215	1,340	8.97	Sept. 19	1545	1,340	8.98
May 4	1715	1,050	8.31				

Minimum daily discharge, 8.5 ft³/s, Oct. 3.

APALACHICOLA RIVER BASIN

02335870 SOPE CREEK NEAR MARIETTA, GA.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	16	15	33	52	219	50	48	31	27	30	33
2	8.7	15	15	28	42	270	45	39	30	25	24	237
3	8.5	15	154	34	37	157	43	35	27	23	21	35
4	26	15	55	29	34	75	38	267	26	217	19	26
5	14	20	28	25	32	55	36	564	25	113	18	23
6	11	20	23	24	33	49	35	215	23	42	47	24
7	108	15	21	39	29	52	49	75	22	33	45	21
8	43	14	22	62	27	45	73	50	22	52	23	19
9	14	99	19	34	26	43	233	59	21	39	106	19
10	170	49	18	48	27	38	213	38	21	31	64	18
11	156	24	18	236	25	36	60	106	20	37	69	18
12	237	20	17	63	24	35	60	79	20	26	93	17
13	28	18	18	41	42	125	78	50	20	25	35	17
14	20	17	17	34	44	46	48	39	37	24	74	52
15	17	16	17	35	26	39	45	32	58	23	41	30
16	14	15	17	38	24	35	36	42	22	23	28	17
17	14	16	17	28	39	46	35	34	24	153	27	16
18	149	15	46	26	35	43	44	67	30	327	25	74
19	22	15	49	41	38	32	116	641	86	167	24	331
20	18	15	142	38	550	31	42	73	71	50	24	63
21	17	15	50	27	91	29	35	50	44	32	22	28
22	145	15	32	24	212	29	33	42	52	24	22	18
23	156	15	134	24	132	30	32	35	24	22	21	17
24	41	14	78	60	61	27	30	34	22	54	21	82
25	24	14	38	42	53	26	28	31	109	45	20	211
26	18	14	31	31	57	25	29	28	250	32	28	51
27	18	14	40	28	40	25	99	109	65	35	25	24
28	18	26	31	35	37	184	133	56	58	32	21	18
29	17	34	27	28	---	587	183	42	38	28	26	18
30	17	17	30	404	---	109	77	36	30	25	46	17
31	17	---	91	92	---	60	---	30	---	45	26	---
TOTAL	1575.3	627	1310	1731	1869	2602	2058	3046	1328	1831	1115	1574
MEAN	50.8	20.9	42.3	55.8	66.7	83.9	68.6	98.3	44.3	59.1	36.0	52.5
MAX	237	99	154	404	550	587	233	641	250	327	106	331
MIN	8.5	14	15	24	24	25	28	28	20	22	18	16
CFSM	1.74	.72	1.45	1.91	2.29	2.87	2.35	3.37	1.52	2.02	1.23	1.80
IN.	2.01	.80	1.67	2.21	2.38	3.31	2.62	3.88	1.69	2.33	1.42	2.01
CAL YR 1990	TOTAL 23080.0		MEAN 63.2		MAX 2330		MIN 7.1		CFSM 2.17 IN. 29.40			
WTR YR 1991	TOTAL 20666.3		MEAN 56.6		MAX 641		MIN 8.5		CFSM 1.94 IN. 26.33			

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.--Estimated daily discharges: Sept. 19-26. 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.--58 years (water years 1929-31, 1937-91), 2,546 ft³/s, 23.84 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, 15,000 ft³/s, Sept. 2, gage height, 12.15 ft; minimum daily discharge, 919 ft³/s, Dec. 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1420	1890	1340	1550	1960	1970	1440	3780	2370	1460	2960	4520
2	3720	2950	932	1540	1480	4570	1730	3680	1170	1810	2830	7080
3	3060	1340	2020	1500	975	2430	1620	3640	1690	2010	2280	3350
4	3300	956	2500	1550	1070	1930	1520	4350	2150	2140	1100	4200
5	3070	1460	1870	1200	1490	1820	1560	4210	2300	2380	1250	4390
6	2540	2320	1720	942	1480	1780	1390	7320	2190	1440	2440	4710
7	1130	2250	1450	1280	1480	1770	1140	8910	2130	1130	3070	4720
8	1650	2970	1230	1990	1500	1670	1480	7980	1640	1560	2520	2690
9	3100	3380	918	2320	1270	1320	1910	7900	1110	2350	2700	1620
10	3660	3070	992	2700	941	968	3190	7560	1490	2580	2810	2740
11	3960	1120	1840	3720	1210	942	2190	6750	2770	2680	1490	2780
12	4790	1790	2760	2430	1490	971	1630	5610	2840	2400	1830	3390
13	2880	3010	3720	1170	1530	1760	1720	5360	3000	2360	2970	3450
14	994	3280	3790	1230	1780	1650	1180	5530	3270	1470	3220	2840
15	1590	2940	3150	1660	1620	1210	1440	5380	3300	1610	2900	1210
16	3120	1660	933	1710	2010	1090	1680	5740	1180	3300	2670	2230
17	3050	1650	1130	1600	1390	1020	1530	5910	1640	3320	1940	4990
18	4090	958	2200	1520	1360	1020	1530	5290	2430	4580	1400	4790
19	3170	1180	2060	1310	1810	995	2770	3710	2050	4460	1810	6000
20	2240	1660	2110	1040	4790	1070	1990	2180	4790	3860	2850	5800
21	990	1680	1600	1090	3180	1090	1210	3690	5210	1310	2830	4600
22	2550	1610	1060	1510	2700	1090	1400	3740	4250	1750	2680	1100
23	5030	1540	1250	1490	2330	1120	1640	3710	1270	3090	2710	1300
24	2730	1400	2100	1630	1370	986	1560	3670	1840	3900	2190	5800
25	1900	938	2090	1730	1210	967	1490	2990	4250	4770	1160	6600
26	1700	1170	1970	1370	1820	1240	1450	1090	6000	3830	1610	6200
27	1370	1660	1740	999	1610	1430	1660	2090	2290	3030	3060	5900
28	1040	1900	1490	1040	1740	2630	2080	3440	2110	2510	5820	4580
29	1330	1950	1340	1430	---	5120	2520	3200	1690	2900	5330	1110
30	1630	1790	946	4270	---	4220	3210	3000	1180	2980	6200	2090
31	1580	---	1440	3170	---	1660	---	2960	---	3200	6660	---
TOTAL	78384	57472	55691	53691	48596	53509	52860	144370	75600	82170	87290	116780
MEAN	2529	1916	1796	1732	1736	1726	1762	4657	2520	2651	2816	3893
MAX	5030	3380	3790	4270	4790	5120	3210	8910	6000	4770	6660	7080
MIN	990	938	918	942	941	942	1140	1090	1110	1130	1100	1100

CAL YR 1990	TOTAL 1309377	MEAN 3587	MAX 20500	MIN 918	MEAN† 3086	CFSM† 2.13	IN† 28.90
WTR YR 1991	TOTAL 906413	MEAN 2483	MAX 8910	MIN 918	MEAN† 2761	CFSM† 1.90	IN† 25.86

†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.--33 years, 137 ft³/s, 21.43 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)
Jan. 30	1300	3,610	12.73	June 18	1945	6,710	17.42
Mar. 2	0030	2,990	11.60	June 26	1100	2,620	10.87
Mar. 29	1445	5,040	15.06	July 18	2200	4,360	13.99
May 5	1930	5,630	15.93	Aug. 11	1500	2,970	11.56
May 11	1845	3,320	12.21	Sept. 2	1030	6,370	16.97
May 19	1100	*7,520	*18.48				

Minimum daily discharge, 16 ft³/s, Oct. 9.

APALACHICOLA RIVER BASIN

02336300 PEACHTREE CREEK AT ATLANTA, GA--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	30	27	50	103	420	135	93	92	60	148	87
2	21	30	26	39	78	981	122	76	112	61	95	2470
3	24	28	748	37	68	324	114	68	145	55	68	177
4	72	28	240	38	62	149	108	746	68	273	61	92
5	49	60	62	33	58	91	160	1630	65	171	57	75
6	22	67	49	33	59	80	109	828	62	60	61	71
7	18	31	48	53	55	77	100	174	61	50	101	65
8	17	28	59	88	51	80	148	124	60	49	67	60
9	16	387	41	47	47	72	439	158	59	47	307	57
10	218	182	37	83	45	60	244	114	58	127	302	55
11	260	51	36	748	44	57	81	1040	56	242	811	53
12	634	45	34	110	43	57	109	595	58	55	432	51
13	74	35	35	62	80	562	153	164	104	48	163	49
14	48	31	34	52	201	100	79	126	280	45	570	48
15	49	29	35	76	54	70	70	120	451	43	164	46
16	44	27	33	106	43	60	67	122	62	130	93	46
17	50	26	32	47	63	63	63	467	233	861	78	45
18	424	25	66	41	70	91	122	276	1180	1590	227	45
19	61	24	115	250	68	57	565	2950	429	1080	111	102
20	37	25	385	136	770	52	86	243	607	266	70	53
21	32	24	111	55	115	50	69	157	198	123	61	42
22	784	24	48	44	504	49	62	128	663	99	58	40
23	411	24	199	41	310	56	60	115	155	87	55	38
24	76	24	205	199	83	51	58	104	130	257	55	315
25	53	24	47	93	77	45	55	96	372	215	116	680
26	45	24	39	49	99	45	54	89	1140	166	208	70
27	38	25	43	43	54	44	610	413	199	116	79	45
28	35	61	50	40	49	547	244	266	122	128	61	40
29	35	78	35	40	---	2310	366	93	81	73	208	37
30	32	31	43	1490	---	368	231	93	66	251	480	36
31	31	---	227	241	---	166	---	68	---	345	96	---
TOTAL	3731	1528	3189	4464	3353	7234	4883	11736	7368	7173	5463	5090
MEAN	120	50.9	103	144	120	233	163	379	246	231	176	170
MAX	784	387	748	1490	770	2310	610	2950	1180	1590	811	2470
MIN	16	24	26	33	43	44	54	68	56	43	55	36
CFSM	1.39	.59	1.19	1.66	1.38	2.69	1.88	4.36	2.83	2.67	2.03	1.95
IN.	1.60	.65	1.37	1.91	1.44	3.10	2.09	5.03	3.16	3.07	2.34	2.18
CAL YR 1990	TOTAL 63945		MEAN 175		MAX 6060		MIN 16		CFSM 2.02		IN. 27.40	
WTR YR 1991	TOTAL 65212		MEAN 179		MAX 2950		MIN 16		CFSM 2.06		IN. 27.95	

APALACHICOLA RIVER BASIN

02336300 PEACHTREE CREEK AT ATLANTA, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.13	3.13	3.08	3.39	3.86	4.59	3.99	3.70	3.74	3.50	3.96	3.58
2	3.12	3.12	3.06	3.27	3.67	6.65	3.91	3.55	3.89	3.51	3.64	9.62
3	3.16	3.11	5.53	3.24	3.58	4.94	3.86	3.48	4.06	3.45	3.44	4.38
4	3.54	3.11	4.44	3.25	3.52	4.06	3.81	5.75	3.58	4.40	3.38	3.95
5	3.42	3.40	3.52	3.18	3.48	3.68	4.13	7.75	3.55	4.20	3.35	3.81
6	3.13	3.54	3.38	3.17	3.49	3.59	3.82	6.31	3.51	3.50	3.38	3.76
7	3.08	3.15	3.37	3.41	3.45	3.56	3.75	4.22	3.52	3.39	3.68	3.71
8	3.06	3.10	3.48	3.74	3.40	3.59	4.06	3.91	3.50	3.38	3.43	3.66
9	3.04	4.55	3.28	3.36	3.36	3.52	5.02	4.12	3.49	3.35	4.29	3.63
10	4.09	4.20	3.24	3.53	3.34	3.41	4.43	3.85	3.48	3.65	4.55	3.60
11	4.39	3.41	3.22	6.23	3.32	3.38	3.60	6.35	3.47	4.35	5.88	3.58
12	5.78	3.33	3.19	3.90	3.30	3.38	3.80	5.65	3.48	3.44	5.17	3.57
13	3.62	3.20	3.20	3.52	3.60	5.47	4.09	4.16	3.74	3.37	4.07	3.55
14	3.37	3.15	3.19	3.42	4.37	3.74	3.58	3.93	4.50	3.34	5.53	3.53
15	3.37	3.11	3.21	3.57	3.44	3.50	3.51	3.89	5.09	3.31	4.08	3.51
16	3.32	3.09	3.18	3.84	3.31	3.41	3.47	3.90	3.51	3.99	3.63	3.51
17	3.29	3.07	3.17	3.36	3.50	3.43	3.44	5.13	4.13	6.42	3.51	3.50
18	5.24	3.05	3.42	3.29	3.58	3.68	3.72	4.53	6.51	8.20	4.35	3.50
19	3.49	3.04	3.88	4.39	3.48	3.38	5.50	10.38	5.29	7.10	3.75	3.93
20	3.23	3.05	4.83	4.03	6.30	3.32	3.64	4.64	5.69	4.54	3.46	3.58
21	3.16	3.04	3.87	3.45	3.93	3.30	3.49	4.21	4.37	3.84	3.38	3.46
22	5.87	3.03	3.37	3.33	5.33	3.29	3.43	4.03	5.88	3.67	3.36	3.43
23	5.09	3.02	4.02	3.28	4.77	3.36	3.41	3.95	4.12	3.58	3.34	3.40
24	3.65	3.02	4.27	4.28	3.71	3.32	3.39	3.87	3.99	4.24	3.33	4.45
25	3.42	3.02	3.36	3.76	3.63	3.25	3.35	3.81	4.96	4.24	3.78	6.01
26	3.34	3.02	3.25	3.39	3.81	3.24	3.35	3.76	7.17	4.03	4.33	3.74
27	3.24	3.05	3.30	3.31	3.44	3.23	5.44	4.99	4.42	3.78	3.53	3.49
28	3.21	3.40	3.39	3.28	3.38	5.47	4.49	4.69	3.99	3.85	3.38	3.42
29	3.20	3.63	3.21	3.27	---	9.64	4.87	3.79	3.69	3.48	3.92	3.39
30	3.17	3.15	3.26	7.80	---	5.04	4.42	3.78	3.56	4.07	5.31	3.37
31	3.16	---	4.45	4.58	---	4.17	---	3.58	---	4.72	3.65	---
MEAN	3.63	3.24	3.57	3.77	3.76	4.05	3.96	4.63	4.26	4.13	3.93	3.92
MAX	5.87	4.55	5.53	7.80	6.30	9.64	5.50	10.38	7.17	8.20	5.88	9.62
MIN	3.04	3.02	3.06	3.17	3.30	3.23	3.35	3.48	3.47	3.31	3.33	3.37
CAL YR 1990	MEAN 3.86		MAX 15.73		MIN 2.98							
WTR YR 1991	MEAN 3.91		MAX 10.38		MIN 3.02							

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 1990 TO SEPTEMBER 1991

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...	0540	25	160	153	7.4	7.3	20.0	18.0	6.9	78
NOV										
06...	0910	70	--	124	7.0	7.0	12.5	13.0	7.1	--
DEC										
05...	1030	62	109	105	7.4	7.1	7.5	6.5	9.9	83
JAN										
09...	0700	49	120	119	7.3	7.0	9.0	6.0	10.8	95
FEB										
06...	0700	63	150	148	7.2	7.2	12.0	15.0	9.5	90
MAR										
06...	0630	82	140	142	7.3	7.1	11.0	13.0	9.7	91
APR										
03...	0630	115	158	155	7.1	7.1	14.0	10.0	8.8	87
MAY										
08...	0530	128	148	141	7.1	7.1	17.0	15.0	7.3	77
JUN										
05...	0530	68	147	146	7.2	7.1	23.0	21.5	6.2	75
JUL										
10...	0500	44	153	149	7.2	7.1	24.0	22.0	7.0	86
AUG										
07...	0600	188	160	158	7.1	7.1	26.0	23.0	5.8	73
SEP										
04...	0545	98	137	124	6.9	6.9	21.0	18.0	6.8	78

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...	4.0	0.6	7000	47	0.500	0.040	0.140	2.4
NOV								
06...	18	5.5	22000	32	0.570	0.030	0.140	6.7
DEC								
05...	18	2.1	7900	30	0.320	0.040	0.120	7.4
JAN								
09...	12	2.4	17000	33	0.780	0.080	0.100	4.2
FEB								
06...	7.0	0.6	4900	42	0.910	0.100	0.090	1.3
MAR								
06...	8.0	0.7	1700	40	0.910	0.070	0.120	5.4
APR								
03...	9.0	1.2	17000	43	0.820	0.130	0.110	2.0
MAY								
08...	16	1.4	39000	40	0.830	0.160	0.130	4.6
JUN								
05...	16	1.2	11000	43	0.680	0.130	0.120	2.8
JUL								
10...	11	0.8	6000	43	0.760	0.060	0.100	3.8
AUG								
07...	20	1.6	160000	49	0.720	0.100	0.100	3.6
SEP								
04...	21	0.5	13000	33	0.810	0.070	0.060	2.7

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.--10 years, 2,536 ft³/s, 21.52 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, 16,000 ft³/s, Sept. 2, gage height, 20.01 ft; minimum daily discharge, 997 ft³/s, Nov. 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1390	1830	1570	1760	2410	2730	1640	4130	2760	1460	3380	5120
2	3840	3370	1020	1730	1880	7070	2030	4080	1430	1900	3140	10200
3	3260	1480	3230	1700	1170	3390	1840	3980	1770	2120	2660	3980
4	3600	1020	3440	1730	1200	2440	1730	5960	2340	2480	1200	4530
5	3300	1420	2060	1490	1650	2140	1850	6920	2420	3020	1250	4780
6	2900	2530	1960	1080	1680	2090	1700	10100	2300	1730	2450	5120
7	1120	2440	1610	1360	1690	2100	1310	9710	2240	1210	3460	5140
8	1560	3260	1500	2320	1700	1940	1710	8820	1890	1490	2710	3160
9	3280	4110	1030	2550	1560	1650	2560	8660	1110	2480	3040	1640
10	4550	3800	1050	3050	1090	1140	4040	8310	1370	2850	3580	2910
11	4610	1260	1880	5470	1250	1120	2490	8480	2810	3460	2950	3000
12	6430	1740	2960	3020	1650	1140	1910	6930	2950	2550	2450	3680
13	3480	3290	4030	1440	1750	2700	2260	6140	3140	2550	3430	3700
14	1130	3550	4110	1330	2330	1960	1390	6230	3610	1650	4330	3190
15	1550	3180	3680	1870	1830	1460	1520	6110	4400	1500	3500	1230
16	3390	1870	1050	2090	2140	1320	1860	6400	1310	3590	2970	2150
17	3330	1870	1140	1790	1790	1200	1700	6940	1860	4910	2320	5300
18	5380	1050	2340	1710	1450	1280	1700	6540	3760	7320	1670	5060
19	3600	1140	2540	1900	2060	1160	3950	8140	2920	6530	2050	6330
20	2610	1740	2820	1460	6710	1220	2430	2720	5860	4630	3070	6180
21	1090	1790	2170	1220	3930	1240	1380	4280	6230	1580	3040	4530
22	3850	1690	1250	1680	3870	1220	1450	4290	5570	1770	2750	1210
23	6570	1640	1600	1660	3340	1300	1740	4250	1710	3300	2910	1470
24	3220	1590	2660	2110	1740	1120	1730	4170	2120	4290	2530	6140
25	2100	997	2390	2130	1430	1110	1620	3560	5080	5660	1340	7100
26	1870	1120	2200	1670	2160	1230	1580	1290	8480	4440	1830	6540
27	1610	1760	1950	1170	1830	1560	2420	2470	2920	3410	3240	6390
28	1140	2010	1700	1150	2040	3640	2810	4340	2540	2830	6070	5230
29	1280	2360	1630	1550	---	8930	2960	3570	2050	3070	5970	1240
30	1710	1910	1100	6470	---	5570	3990	3470	1320	3320	7270	2040
31	1720	---	1880	4480	---	2180	---	3310	---	4060	7260	---
TOTAL	90470	62817	65550	66140	59330	70350	63300	174300	90270	97160	99820	128290
MEAN	2918	2094	2115	2134	2119	2269	2110	5623	3009	3134	3220	4276
MAX	6570	4110	4110	6470	6710	8930	4040	10100	8480	7320	7270	10200
MIN	1090	997	1020	1080	1090	1110	1310	1290	1110	1210	1200	1210
CAL YR 1990	TOTAL 1441867		MEAN 3950		MAX 29800		MIN 997		MEAN† 3449		CFSM† 2.16	
WTR YR 1991	TOTAL 1067797		MEAN 2925		MAX 10200		MIN 997		MEAN† 3203		CFSM† 2.00	
											IN† 29.27	
											IN† 27.19	

†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 1990 TO SEPTEMBER 1991

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...	0630	3110	63	57	--	6.9	18.0	19.0	8.1	87
NOV										
06...	1000	1320	--	92	7.1	7.0	18.5	13.5	8.2	--
DEC										
05...	0715	1480	91	88	7.0	6.8	12.5	0.0	10.6	101
JAN										
09...	0730	2450	85	81	7.2	6.9	11.0	6.0	10.8	99
FEB										
06...	0730	1370	103	98	6.9	7.0	13.0	15.0	10.4	101
MAR										
06...	0700	1840	97	92	7.1	7.0	13.0	13.0	10.0	99
APR										
03...	0700	1620	100	95	6.9	7.1	15.5	10.5	9.4	96
MAY										
08...	0600	9450	50	48	6.9	6.7	18.0	15.5	9.9	107
JUN										
05...	0600	1910	86	79	7.1	7.1	20.0	22.0	8.3	94
JUL										
10...	0530	2710	79	73	7.2	6.9	19.0	22.5	8.3	92
AUG										
07...	0615	3680	80	71	7.4	6.7	22.0	24.0	7.5	88
SEP										
04...	0600	5010	65	60	7.1	6.8	19.0	19.0	8.0	88

APALACHICOLA RIVER BASIN

02336502 CHATTAHOOCHEE RIVER AT I-285, AT ATLANTA, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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)
OCT									
03...	7.0	0.6	300	15	18	0.600	0.140	0.210	1.4
NOV									
06...	13	3.3	1300	22	16	1.03	0.300	0.210	3.5
DEC									
05...	39	2.4	230	--	26	0.850	0.320	0.260	6.7
JAN									
09...	20	4.1	200	19	25	0.700	0.370	0.230	5.4
FEB									
06...	15	2.0	20	21	16	0.880	0.670	0.200	3.2
MAR									
06...	21	2.2	1300	21	17	0.750	0.700	0.170	6.4
APR									
03...	20	1.8	110	20	19	0.900	0.440	0.260	2.2
MAY									
08...	60	1.5	2300	14	136	0.450	0.080	0.110	7.2
JUN									
05...	14	1.6	490	19	18	0.990	0.270	0.150	2.1
JUL									
10...	15	0.5	790	16	31	0.990	0.100	0.170	2.4
AUG									
07...	39	1.6	35000	16	87	0.970	0.130	0.140	4.6
SEP									
04...	64	0.6	2300	12	116	0.820	0.040	0.110	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.--55 years (water years 1905, 1938-91), 335 ft³/s, 18.49 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)
Jan. 31	0500	1,820	6.19	May 6	2400	*3,550	*10.21
Feb. 21	0500	2,460	7.78	May 20	1100	3,310	9.69
Mar. 2	1600	1,860	6.29	July 18	1900	2,100	6.90
Mar. 30	1000	2,670	8.27				

Minimum discharge, 1.1 ft³/s, Oct. 29; gage height, -0.21 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 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	115	129	307	972	461	860	967	321	361	367	167
2	39	107	123	254	620	1670	527	724	339	303	267	214
3	38	105	273	230	429	1520	440	442	269	253	234	154
4	42	102	466	242	352	1470	385	614	241	326	206	134
5	64	105	329	224	299	1140	360	1590	233	775	186	126
6	50	114	233	214	272	668	344	2970	246	504	171	130
7	47	112	186	231	258	534	329	3260	216	347	157	138
8	146	109	173	271	240	460	407	1780	194	297	149	129
9	112	215	160	264	223	415	471	673	183	339	194	127
10	189	379	152	237	210	362	627	747	175	348	217	122
11	216	292	165	827	200	318	474	1490	168	372	284	114
12	397	215	149	775	189	295	428	1250	165	279	551	108
13	191	167	136	555	193	526	536	644	199	233	246	103
14	139	148	133	392	312	516	494	522	541	202	327	100
15	109	139	133	315	274	415	424	438	899	182	441	94
16	92	130	130	310	227	339	389	389	574	180	313	91
17	84	124	130	264	209	307	338	418	346	547	237	87
18	314	125	134	235	241	331	314	462	340	1790	201	101
19	192	118	218	259	244	308	666	1730	599	1670	178	133
20	145	114	340	334	1590	278	655	3100	1280	688	161	195
21	113	112	375	299	2310	255	459	1910	716	422	146	168
22	266	110	264	256	2070	251	373	635	629	332	137	140
23	1150	110	268	220	1950	258	330	490	491	258	130	121
24	754	110	626	272	1250	255	294	426	374	228	126	146
25	373	109	420	387	845	236	266	381	480	337	160	494
26	218	107	304	329	620	219	248	346	754	513	205	485
27	173	106	249	274	493	210	323	513	824	855	209	315
28	150	122	247	251	403	468	591	941	783	379	188	214
29	128	161	228	237	---	1460	797	521	675	321	239	171
30	125	138	220	887	---	2520	1120	490	457	306	266	138
31	119	---	365	1570	---	1830	---	358	---	427	194	---
TOTAL	6216	4220	7458	11722	17495	20295	14269	31221	13711	14374	7087	4959
MEAN	201	141	241	378	625	655	476	1007	457	464	229	165
MAX	1150	379	626	1570	2310	2520	1120	3260	1280	1790	551	494
MIN	38	102	123	214	189	210	248	346	165	180	126	87
CFSM	.82	.57	.98	1.54	2.54	2.66	1.94	4.09	1.86	1.89	.93	.67
IN.	.94	.64	1.13	1.77	2.65	3.07	2.16	4.72	2.07	2.17	1.07	.75
CAL YR 1990	TOTAL	163084	MEAN	447	MAX	9100	MIN	32	CFSM	1.82	IN	24.66
WTR YR 1991	TOTAL	153027	MEAN	419	MAX	3260	MIN	38	CFSM	1.70	IN	23.14

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 1990 TO SEPTEMBER 1991

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 02...	0500	39	100	94	7.3	7.1	20.0	14.0	6.5	74
NOV 07...	0910	112	88	86	6.8	7.0	12.0	14.5	8.3	79
JAN 08...	0600	261	82	76	—	6.9	11.5	6.0	9.5	89
MAR 05...	0550	1270	53	50	7.0	6.6	9.0	2.0	10.0	90
MAY 07...	0530	3530	45	40	6.9	6.3	18.0	9.5	6.0	65
JUL 09...	0500	327	78	71	7.0	7.0	24.0	21.0	6.6	81
SEP 03...	0500	161	80	73	7.0	7.0	23.0	19.5	6.5	78

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 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)
OCT 02...	24	0.2	220	31	0.260	0.090	0.120	2.7
NOV 07...	15	1.8	130	27	0.160	0.040	0.100	2.9
JAN 08...	17	1.3	2300	21	0.290	0.590	0.070	4.2
MAR 05...	46	1.1	24000	11	0.210	<0.030	0.120	8.6
MAY 07...	150	2.7	35000	10	0.140	0.160	0.160	9.5
JUL 09...	25	0.6	3300	23	0.290	<0.030	0.060	4.2
SEP 03...	34	1.2	3100	22	0.370	0.050	0.110	4.2

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: Oct. 1, 7, 8, 14, 15, 21, 22, 29, Nov. 4, 5, 25, 26, Dec. 2, 3, 9, 10, 16, 17, Sept. 9, 22, 23. 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.--26 years, 3,577 ft³/s, 23.58 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, 15,500 ft³/s, May 6, gage height 15.35 ft; minimum daily discharge, 1,300 ft³/s, Oct. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	1300	1970	2180	2450	4320	2770	3180	5560	3740	1980	4280	5840	
2	3560	3700	1550	2270	3230	9900	3030	5330	2600	2370	3760	9040	
3	3530	2250	2500	2230	2060	6390	2760	4840	1940	2540	3470	5340	
4	3630	1550	5580	2250	1910	5020	2510	5600	2770	2620	1760	4890	
5	3760	1550	2810	2160	2150	4060	2580	9280	2870	5350	1500	5140	
6	3570	2690	2690	1630	2330	3360	2570	14200	2820	3110	2300	5510	
7	1600	2860	2090	1690	2290	3060	2090	12100	2710	2010	3860	5540	
8	1500	3430	2130	2810	2230	2880	2260	10900	2680	1930	3060	4250	
9	3230	4120	1550	3110	2230	2710	3310	9460	1680	3040	2930	1750	
10	5010	5830	1500	3610	1630	1940	5540	9560	1550	3300	5070	3110	
11	5900	2320	1760	6480	1530	1790	3450	10500	2780	4600	2670	3320	
12	7840	1750	3180	5450	2090	1790	2950	10100	3280	3210	3820	4020	
13	4840	3590	4320	2780	2130	3570	3370	7270	3380	3090	3950	3930	
14	1900	3950	4410	2000	3080	3260	2590	7050	4190	2380	4810	3840	
15	1650	3530	4380	2400	2540	2450	2160	6880	6510	1650	5170	1900	
16	3420	2740	1850	2820	2250	2090	2540	6930	2760	3650	3540	2000	
17	3690	2250	1550	2460	2790	1860	2490	7390	1900	5520	3140	5210	
18	5720	1700	2330	2240	1890	2070	2310	7680	3940	9990	1880	5370	
19	4620	1580	3250	2620	2550	1850	5040	10200	4600	8580	2380	6310	
20	3480	1940	3040	2680	7570	1880	4080	7000	6670	6910	3210	6930	
21	1800	2120	3940	1890	7440	1850	2490	6770	7590	2870	3310	5410	
22	2550	2090	2000	2140	6410	1820	2010	5480	7010	1900	2750	1900	
23	8900	2040	1870	2200	7600	1890	2330	5120	3440	3540	3070	1550	
24	4930	2050	3640	2650	3970	1800	2460	4910	2390	4280	3100	5460	
25	2920	1600	3460	3250	2890	1740	2230	4560	5350	6350	1740	8510	
26	2530	1550	2790	2620	3200	1720	2190	2340	9100	5110	1920	7310	
27	2260	1950	2450	1840	2750	2110	2840	2990	6430	4930	3160	6970	
28	1680	2160	2370	1760	2790	3710	4670	6420	4050	3520	5990	6270	
29	1500	3010	2260	1930	---	9630	3810	4750	3700	3360	6430	2110	
30	2040	2300	1650	6270	---	11900	6070	4300	2300	3830	8330	1660	
31	2140	---	2540	8440	---	5530	---	3990	---	4830	7860	---	
TOTAL	107000	76170	83620	91130	89850	108400	91910	219460	116730	122350	114220	140390	
MEAN	3452	2539	2697	2940	3209	3497	3064	7079	3891	3947	3685	4680	
MAX	8900	5830	5580	8440	7600	11900	6070	14200	9100	9990	8330	9040	
MIN	1300	1550	1500	1630	1530	1720	2010	2340	1550	1650	1500	1550	
CAL YR 1990	TOTAL 1774400		MEAN 4861		MAX 34700		MIN 1270		MEAN† 4360		CFSTM† 2.12		IN† 28.74
WTR YR 1991	TOTAL 1361230		MEAN 3729		MAX 14200		MIN 1300		MEAN† 4007		CFSTM† 1.95		IN† 26.42

†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, 155 microsiemens, Mar. 27; minimum recorded, 43 microsiemens, Sept. 2.

pH: Maximum recorded, 7.4 units, Dec. 20; minimum recorded, 6.3 units May 5.

WATER TEMPERATURE: Maximum recorded, 29.0°C, July 3; minimum, 3.5°C, Feb. 17.

DISSOLVED OXYGEN: Maximum, 11.3 mg/L, Feb. 17; minimum recorded, 5.1 mg/L, Apr. 10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 01...	1450	1330	136	130	7.0	6.9	24.0	28.0	7.1	86
NOV 08...	1145	3510	76	76	7.1	6.9	15.5	12.5	8.3	85
DEC 05...	0900	3310	98	96	7.2	6.9	12.0	0.0	9.1	86
JAN 09...	0900	3620	95	88	7.1	6.9	11.5	6.5	9.6	89
FEB 06...	0900	2880	131	131	7.3	6.9	13.5	15.5	9.1	89
MAR 06...	0900	3950	108	101	7.0	6.8	13.5	14.0	9.4	93
MAY 08...	1250	11200	53	52	6.8	7.2	14.5	22.5	9.2	91
16...	0800	6740	82	81	6.9	6.8	18.5	22.5	8.4	92
JUN 05...	0700	3390	93	89	7.0	6.9	23.5	23.0	7.4	90
JUL 10...	0615	3790	100	94	7.1	7.0	23.0	21.5	8.0	96
AUG 07...	0645	4410	94	90	7.0	6.8	24.0	24.0	7.7	87
SEP 04...	0645	4350	80	76	7.0	6.8	20.0	17.5	8.0	86

APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 01...	8.0	--	0.7	790	22	--
NOV 08...	13	9	7.5	490	16	22
DEC 05...	50	14	3.4	490	20	43
JAN 09...	18	15	2.5	1300	19	37
FEB 06...	17	16	3.9	50	26	29
MAR 06...	28	16	--	4900	23	29
MAY 08...	60	12	1.4	3300	14	98
16...	50	26	1.4	92000	18	80
JUN 05...	20	15	1.9	940	18	28
JUL 10...	26	15	0.9	790	20	46
AUG 07...	25	18	1.6	35000	18	78
SEP 04...	50	13	0.8	700	15	66

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 01...	2.26	0.190	--	--	--	0.470	2.8
NOV 08...	0.810	0.290	0.21	0.50	1.3	0.170	3.4
DEC 05...	1.00	0.300	--	--	--	0.260	7.0
JAN 09...	0.770	0.350	0.25	0.60	1.4	0.240	5.8
FEB 06...	1.57	<0.520	--	0.90	2.5	0.260	2.9
MAR 06...	0.970	E0.770	--	1.0	2.0	0.260	7.0
MAY 08...	0.470	0.080	0.22	0.30	0.77	0.130	6.0
16...	0.960	0.230	0.37	0.60	1.6	0.230	4.5
JUN 05...	1.24	0.170	0.43	0.60	1.8	0.180	3.7
JUL 10...	1.38	0.140	0.36	0.50	1.9	0.260	5.3
AUG 07...	1.24	0.110	0.19	0.30	1.5	0.220	4.3
SEP 04...	1.19	0.070	0.33	0.40	1.6	0.170	3.1

APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, 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	139	127	146	101	124	101	114	101	100	84	130	98
2	139	69	145	79	143	126	120	92	112	92	104	66
3	89	78	114	89	145	97	123	98	123	108	88	73
4	91	78	150	112	104	76	132	102	128	119	90	81
5	85	79	143	135	114	94	136	100	138	117	97	90
6	87	74	146	104	123	92	134	121	142	107	118	96
7	125	83	115	84	132	104	133	122	144	105	125	100
8	135	108	121	82	146	110	131	108	141	107	120	101
9	133	78	102	81	148	129	126	92	141	103	131	101
10	90	63	97	70	149	135	119	81	132	123	135	120
11	81	66	114	80	153	132	112	74	138	128	135	123
12	81	59	122	112	147	98	92	75	146	113	144	132
13	82	69	124	82	101	69	109	93	147	106	144	93
14	122	85	86	76	91	73	123	109	146	107	106	94
15	132	123	89	76	88	69	137	115	121	100	130	108
16	135	83	108	78	132	85	140	108	136	103	144	122
17	89	74	137	92	138	130	129	109	125	84	145	128
18	91	65	136	117	144	103	141	107	127	113	138	125
19	82	66	142	133	116	95	145	105	134	94	146	125
20	87	81	146	107	132	97	125	105	121	69	147	133
21	122	88	143	105	113	85	124	108	79	69	150	129
22	133	98	135	102	129	107	140	115	92	73	148	129
23	82	58	132	93	132	112	142	110	85	74	152	127
24	90	72	129	95	129	92	139	103	96	83	143	133
25	115	82	130	114	100	86	129	95	112	95	140	129
26	124	87	---	---	100	81	122	103	131	108	153	128
27	136	88	---	---	111	93	135	117	125	108	155	109
28	130	112	---	---	126	99	131	125	137	103	144	84
29	132	120	133	100	131	101	141	129	---	---	86	54
30	136	98	125	104	127	113	147	66	---	---	68	55
31	141	93	---	---	124	100	85	66	---	---	78	68
MONTH	141	58	150	70	153	69	147	66	147	69	155	54

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

[illegible]

APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

PH (STANDARD UNITS), 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	7.1	7.0	7.0	7.0	7.3	7.2	7.2	7.1	7.2	7.1	7.0	6.8
2	7.1	6.9	7.1	7.0	7.3	7.2	7.2	7.1	7.2	7.2	7.0	6.8
3	7.0	6.9	7.1	7.0	7.3	7.0	7.1	7.0	7.2	7.2	6.9	6.8
4	7.0	6.9	7.1	7.1	7.2	7.0	7.0	7.0	7.3	7.2	6.9	6.9
5	7.0	6.9	7.1	7.1	7.3	7.2	7.0	7.0	7.2	7.2	7.0	6.9
6	7.0	6.9	7.1	7.1	7.3	7.2	7.0	7.0	7.3	7.2	7.0	6.9
7	7.0	7.0	7.2	7.0	7.3	7.2	7.0	7.0	7.3	7.2	7.0	6.9
8	7.0	7.0	7.1	7.1	7.3	7.2	7.1	7.0	7.3	7.2	7.0	7.0
9	7.0	6.9	7.1	7.1	7.3	7.2	7.1	7.1	7.3	7.2	7.0	6.9
10	7.1	6.7	7.1	7.0	7.3	7.2	7.1	7.0	7.3	7.2	7.0	7.0
11	6.9	6.8	7.1	7.1	7.2	7.2	7.1	7.0	7.3	7.2	7.0	6.9
12	6.9	6.8	7.1	7.0	7.3	7.2	7.1	7.0	7.2	7.1	7.0	6.9
13	7.0	6.8	7.1	7.1	7.2	7.1	7.1	7.1	7.2	7.1	7.0	6.8
14	7.0	7.0	7.1	7.0	7.1	7.1	7.2	7.1	7.2	7.1	7.0	6.9
15	7.1	7.0	7.1	7.0	7.1	7.1	7.1	7.1	7.2	7.1	7.0	6.9
16	7.0	7.0	7.1	7.0	7.1	7.1	7.1	7.1	7.3	7.2	7.0	6.9
17	7.0	6.9	7.1	7.0	7.1	7.0	7.2	7.1	7.3	7.1	7.0	7.0
18	7.0	6.8	7.2	7.1	7.2	7.0	7.2	7.1	7.2	7.1	7.0	6.8
19	7.0	6.9	7.2	7.1	7.2	7.1	7.2	7.1	7.2	7.1	7.0	6.8
20	7.1	7.0	7.1	7.1	7.4	7.1	7.1	7.1	7.2	6.9	6.9	6.8
21	7.1	7.0	7.1	7.1	7.2	7.1	7.2	7.1	7.0	7.0	6.8	6.7
22	7.0	6.9	7.1	7.1	7.1	7.0	7.3	7.2	7.1	7.0	6.7	6.7
23	6.9	6.9	7.2	7.1	7.1	7.0	7.3	7.2	7.0	7.0	6.8	6.6
24	7.0	6.9	7.1	7.1	7.2	7.0	7.3	7.2	7.0	7.0	6.8	6.7
25	7.1	7.0	7.1	7.1	7.2	7.2	7.2	7.1	7.0	7.0	6.8	6.6
26	7.1	7.1	---	---	7.2	7.2	7.3	7.2	7.0	7.0	6.7	6.5
27	7.1	7.1	---	---	7.3	7.1	7.3	7.2	7.0	7.0	6.7	6.5
28	7.2	7.1	---	---	7.2	7.2	7.3	7.2	7.0	7.0	6.6	6.5
29	7.2	7.1	7.3	7.1	7.2	7.1	7.3	7.2	---	---	6.8	6.5
30	7.1	7.0	7.3	7.2	7.2	7.1	7.2	6.9	---	---	6.8	6.5
31	7.1	7.0	---	---	7.2	7.1	7.1	6.9	---	---	6.9	6.8
MONTH	7.2	6.7	7.3	7.0	7.4	7.0	7.3	6.9	7.3	6.9	7.0	6.5

APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

TEMPERATURE, WATER (DEG. 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	24.5	22.5	19.0	17.0	13.5	12.5	12.0	11.0	10.5	9.0	14.0	12.5
2	24.5	17.0	20.0	15.5	15.5	13.5	12.0	11.0	9.5	9.0	14.5	13.5
3	20.0	17.5	18.0	16.5	16.5	15.5	13.0	11.0	11.5	9.5	14.0	13.5
4	20.0	19.0	19.5	17.0	15.5	12.5	12.5	11.5	12.0	10.0	13.5	12.0
5	20.0	18.5	19.0	18.5	13.0	11.5	13.5	12.0	13.0	12.0	12.0	11.0
6	19.0	18.0	20.0	16.5	12.0	10.5	13.5	12.5	13.5	12.5	14.0	12.0
7	23.0	19.0	17.5	15.0	12.0	11.0	15.0	13.5	14.5	12.0	15.5	14.0
8	24.5	22.5	18.0	15.5	12.5	11.5	14.5	12.5	13.5	11.0	15.0	13.5
9	25.0	19.5	16.0	13.5	12.5	11.0	12.5	11.5	11.5	10.5	14.0	13.0
10	20.5	19.5	14.0	12.5	13.0	11.0	12.5	11.0	14.0	10.0	14.5	13.0
11	20.5	18.0	15.5	13.0	13.0	12.0	11.5	9.5	14.5	12.5	15.5	12.5
12	19.5	18.5	17.0	15.0	12.5	11.0	9.5	9.5	14.0	11.5	16.0	14.0
13	20.0	18.5	17.5	14.0	13.0	12.0	9.0	8.5	14.0	11.5	16.5	15.0
14	21.0	19.0	16.5	14.5	14.0	13.0	9.0	7.5	14.5	11.5	15.0	14.0
15	23.0	20.0	16.5	15.0	13.5	12.5	9.5	9.0	12.0	7.5	15.0	13.5
16	23.0	18.5	17.0	15.5	15.5	13.0	10.5	9.5	8.0	5.5	15.5	15.0
17	20.0	18.5	19.0	15.5	17.0	15.0	11.0	10.0	8.0	3.5	15.5	14.5
18	20.5	19.0	16.5	15.0	18.0	15.5	11.0	10.5	10.0	7.0	16.5	14.5
19	19.0	18.0	16.5	14.5	16.0	15.0	12.0	10.0	12.0	8.0	17.5	15.0
20	18.0	17.0	17.0	15.0	16.5	13.5	10.5	10.5	14.0	11.5	17.5	15.0
21	20.0	17.0	17.0	14.5	14.5	12.5	11.0	10.0	14.0	12.0	18.0	16.5
22	22.0	20.0	17.0	15.0	15.5	14.5	9.5	8.5	14.0	12.5	20.0	17.5
23	19.5	17.0	16.5	15.0	18.0	16.0	8.5	8.0	13.5	12.0	21.0	19.0
24	18.5	17.5	16.0	15.0	17.5	13.0	9.0	7.5	13.0	12.0	20.0	18.0
25	18.5	16.5	16.5	14.5	13.0	11.0	8.0	6.5	14.0	12.5	20.5	18.0
26	18.0	15.0	---	---	11.5	9.5	8.5	8.0	14.0	12.0	21.0	18.5
27	17.0	15.0	---	---	12.0	9.5	9.5	8.0	13.0	11.5	20.5	18.5
28	18.0	16.5	---	---	12.0	10.0	11.5	9.5	14.0	12.0	20.0	17.0
29	18.5	16.0	17.5	14.5	13.5	11.5	12.0	11.0	---	---	17.0	15.5
30	18.5	16.0	14.5	13.0	14.0	12.0	12.5	11.5	---	---	15.5	14.0
31	18.5	15.0	---	---	14.0	11.5	12.0	10.5	---	---	14.0	13.0
MONTH	25.0	15.0	20.0	12.5	18.0	9.5	15.0	6.5	14.5	3.5	21.0	11.0

APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[illegible]

APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

OXYGEN, DISSOLVED (MG/L), 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	7.4	6.9	8.6	7.9	9.4	8.9	9.8	9.2	10.5	10.1	9.9	8.9
2	8.3	6.9	8.9	7.8	9.0	8.4	10.1	9.7	10.5	10.3	9.7	8.6
3	8.2	7.8	8.6	8.1	8.4	7.0	9.8	9.3	10.2	9.9	9.6	9.0
4	8.2	7.7	8.3	7.8	8.9	6.6	9.7	9.2	10.1	9.6	9.7	9.1
5	8.1	7.2	7.9	7.5	9.3	8.7	9.5	9.0	9.6	9.2	10.0	9.5
6	8.3	7.9	8.1	6.6	9.8	9.4	9.1	8.8	9.3	8.8	10.0	9.1
7	8.3	7.1	8.6	7.9	9.7	9.2	9.1	8.5	9.2	8.7	9.0	8.0
8	7.2	6.9	8.6	7.9	9.4	8.6	9.2	8.4	9.5	8.9	8.9	8.6
9	8.1	6.4	8.6	8.2	9.3	9.0	9.7	9.1	9.7	9.3	9.2	7.8
10	8.1	5.7	8.7	7.7	9.5	8.9	10.0	9.0	9.8	9.2	8.6	8.3
11	8.0	5.8	8.6	8.4	9.4	9.0	10.1	9.4	9.4	9.0	8.8	8.2
12	7.8	7.0	8.5	8.1	10.0	9.3	10.2	9.9	9.7	9.0	8.3	7.6
13	7.8	7.3	9.0	8.2	9.7	9.4	10.2	10.1	9.6	9.2	8.4	7.2
14	7.7	7.1	9.0	8.4	9.5	9.1	10.4	10.1	9.4	8.5	8.9	8.4
15	7.3	6.8	8.9	8.5	9.6	9.0	10.3	10.1	9.9	9.0	9.2	8.5
16	8.3	6.9	8.7	8.1	9.4	7.8	10.1	9.2	10.7	9.7	9.0	8.3
17	8.3	7.8	8.6	7.6	8.0	7.4	9.6	9.1	11.3	10.1	8.8	8.6
18	8.1	6.9	8.6	8.2	8.4	7.3	9.7	8.8	10.6	9.6	9.0	8.3
19	8.1	7.4	8.4	8.0	8.4	7.7	9.8	8.6	10.5	9.6	8.9	8.3
20	8.3	7.9	8.9	7.9	8.7	7.7	9.7	8.6	9.8	9.2	8.7	8.3
21	8.3	7.4	8.9	8.3	9.2	7.8	9.8	9.6	9.8	9.7	8.3	7.6
22	7.4	5.8	8.7	8.3	8.7	8.1	10.5	9.8	9.8	8.8	8.0	7.6
23	8.2	6.4	8.8	8.3	8.0	7.6	10.8	10.3	9.9	8.7	7.7	7.1
24	8.1	7.8	8.6	8.1	9.0	7.0	11.0	10.4	9.9	9.5	7.7	7.4
25	8.2	7.9	8.7	8.4	9.9	9.1	11.2	10.2	9.9	9.3	7.8	6.1
26	8.7	7.9	---	---	10.4	9.8	11.0	10.8	9.7	8.7	7.6	6.9
27	8.9	8.2	---	---	10.2	9.5	10.8	10.4	9.8	9.4	7.4	6.9
28	8.9	8.4	---	---	10.1	9.4	10.5	9.8	9.9	9.4	7.6	6.0
29	8.7	8.2	8.4	7.5	9.8	9.2	9.8	9.5	---	---	8.0	7.3
30	8.9	8.2	8.9	8.2	9.4	8.8	9.8	9.0	---	---	8.7	7.9
31	9.2	8.3	---	---	9.1	8.5	10.2	9.3	---	---	9.2	8.6
MONTH	9.2	5.7	9.0	6.6	10.4	6.6	11.2	8.4	11.3	8.5	10.0	6.0

APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[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 current year.

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 1990 TO SEPTEMBER 1991

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										
02...	0600	2250	130	123	7.2	6.9	23.0	16.0	6.4	76
NOV										
07...	1010	3550	101	99	7.0	7.1	16.0	18.0	7.9	82
DEC										
04...	0700	8400	93	90	6.9	6.6	15.0	7.0	6.7	68
JAN										
08...	0800	2400	125	117	6.0	6.8	14.0	7.0	8.3	82
FEB										
05...	0700	2500	120	111	6.9	6.8	11.0	10.0	9.6	89
MAR										
05...	0700	5000	70	79	6.8	6.8	11.0	0.0	9.4	88
APR										
02...	0615	2900	96	91	7.2	6.9	15.0	5.0	8.6	87
MAY										
07...	0600	E15000	60	57	6.8	6.7	18.0	11.0	7.5	81
JUN										
04...	0500	2300	115	112	6.8	6.9	25.0	22.0	6.2	78
JUL										
09...	0545	3000	105	99	7.1	6.9	25.0	21.5	7.5	93
AUG										
06...	0530	1900	120	115	7.1	7.0	26.0	22.5	6.3	80
SEP										
03...	0530	E12000	57	54	6.9	6.5	21.0	18.0	7.1	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- 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									
02...	12	0.4	1300	20	22	2.24	0.120	0.430	2.6
NOV									
07...	17	2.6	2800	20	33	1.35	0.150	0.210	3.4
DEC									
04...	170	>7.6	>240000	21	303	0.740	0.240	0.400	16
JAN									
08...	18	3.7	13000	22	27	1.35	0.380	0.330	6.3
FEB									
05...	18	1.5	170	22	19	1.43	0.240	0.180	4.2
MAR									
05...	54	2.0	1700	17	37	0.970	0.200	0.160	6.8
APR									
02...	36	1.7	1400	18	45	1.07	0.110	0.200	4.1
MAY									
07...	190	3.0	24000	13	220	0.510	0.120	0.450	13
JUN									
04...	27	1.8	2300	24	44	1.74	0.190	0.270	3.4
JUL									
09...	60	1.4	7000	20	60	1.71	0.070	0.260	4.4
AUG									
06...	11	0.7	790	22	12	2.14	0.100	0.430	3.2
SEP									
03...	200	1.9	35000	12	301	0.710	0.070	0.200	5.4

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.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1954 to current year.

REVISED RECORDS.--WDR GA-90-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 832.75 ft above National Geodetic Vertical Datum of 1929 (leveling by global positioning system equipment).

REMARKS.--Estimated daily discharges: Mar. 5-22. Records good, except those for the period of estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--37 years, 56.3 ft³/s, 21.54 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)
Mar. 29	1630	*676	*4.41				

Minimum discharge, 9.7 ft³/s, Oct. 3, 4, gage height, 1.93 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	15	17	25	56	58	65	71	44	38	39	31
2	10	15	18	24	45	140	56	59	48	36	40	29
3	9.8	15	38	24	41	118	51	51	42	35	37	29
4	13	15	34	23	38	85	48	72	40	36	40	28
5	14	15	25	23	36	66	47	150	43	98	35	27
6	12	16	23	22	35	60	46	135	39	85	33	27
7	11	16	21	25	34	56	54	84	38	54	32	27
8	11	15	21	26	32	50	59	69	36	78	31	32
9	11	30	19	25	30	46	55	69	36	67	31	29
10	11	35	19	26	30	42	49	134	35	51	44	27
11	17	23	18	62	29	39	45	179	34	44	52	26
12	23	21	17	52	28	45	59	93	34	40	47	25
13	15	19	17	39	29	56	63	78	34	37	45	24
14	14	18	17	34	32	50	56	69	34	36	132	24
15	13	18	18	32	29	45	51	62	34	34	83	23
16	13	21	17	32	28	39	47	57	35	33	56	23
17	13	20	18	28	29	42	44	60	34	68	46	22
18	18	19	19	27	30	42	45	56	37	295	42	22
19	15	18	21	37	29	40	72	54	37	108	39	22
20	14	18	31	41	134	39	52	50	42	69	36	22
21	13	18	30	34	89	38	47	50	41	54	34	22
22	27	17	25	31	78	38	44	50	53	47	33	21
23	41	17	26	30	120	41	44	49	47	42	32	21
24	22	17	34	40	73	39	41	47	39	39	32	27
25	18	16	27	43	66	37	39	46	39	41	33	64
26	16	18	25	36	55	36	40	46	75	39	38	37
27	16	17	24	33	48	35	78	71	65	38	34	30
28	15	18	24	33	44	59	78	80	58	38	32	27
29	15	20	23	31	---	247	89	57	49	49	33	25
30	15	17	23	109	---	147	95	49	42	55	34	24
31	15	---	30	92	---	81	---	46	---	44	33	---
TOTAL	480.8	557	719	1139	1347	1956	1659	2243	1264	1828	1308	817
MEAN	15.5	18.6	23.2	36.7	48.1	63.1	55.3	72.4	42.1	59.0	42.2	27.2
MAX	41	35	38	109	134	247	95	179	75	295	132	64
MIN	9.8	15	17	22	28	35	39	46	34	33	31	21
CFSM	.44	.52	.65	1.03	1.36	1.78	1.56	2.04	1.19	1.66	1.19	.77
IN.	.50	.58	.75	1.19	1.41	2.05	1.74	2.35	1.32	1.92	1.37	.86
CAL YR 1990	TOTAL 25288.8	MEAN 69.3	MAX 1930	MIN 9.8	CFSM 1.95	IN. 26.50						
WTR YR 1991	TOTAL 15317.8	MEAN 42.0	MAX 295	MIN 9.8	CFSM 1.18	IN. 16.05						

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.--41 years (water years 1939-53, 1966-91), 3,965 ft³/s, 22.16 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, 20,300 ft³/s, Mar. 30, gage height, 15.29 ft; minimum daily discharge, 1,390 ft³/s, Oct. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1390	2080	2370	2900	5580	3190	4390	6200	4130	2490	4940	6750
2	2620	2990	1740	2590	3950	10300	3670	5890	3650	2730	4330	7530
3	3940	2930	1790	2500	2790	8500	3440	5290	2460	2860	3970	7750
4	3580	1740	6240	2480	2390	6560	3120	5300	2980	2900	2770	4760
5	4000	1450	3450	2440	2490	4970	3000	10500	3400	5890	1970	5140
6	3740	2330	2950	1920	2750	4190	3130	17200	3300	4600	2330	5410
7	2520	3030	2430	1830	2660	3720	2780	14100	3140	2880	3850	5690
8	1580	3060	2300	2760	2600	3520	2850	12400	3040	2410	3680	5100
9	2730	3740	1800	3330	2540	3270	3580	10400	2290	3450	3210	2670
10	3940	6110	1580	3570	2120	2590	5530	10300	1920	3770	5000	2770
11	6420	3440	1730	6080	1890	2290	4310	12000	2580	4910	3240	3460
12	8130	1970	2810	7040	2290	2240	3610	11800	3510	3920	4680	3770
13	5690	2980	4050	3820	2420	3230	3720	8030	3600	3470	4080	4040
14	2880	3880	4390	2570	3060	4340	3510	7500	4250	2950	5370	4030
15	1710	3840	4530	2660	3010	3140	2720	7330	6320	2240	7020	2810
16	2870	3330	2830	3110	2570	2580	2940	7210	4140	3140	4470	1970
17	3820	2300	1550	2900	3020	2310	2930	7460	2410	5130	3850	4040
18	4970	1990	2010	2620	2330	2480	2700	8320	3540	12500	2660	5380
19	5510	1490	3370	2720	2680	2370	4990	9330	5290	10100	2740	5760
20	3900	1880	3030	3430	6520	2280	5020	9080	5750	7910	3160	7250
21	2600	2190	4740	2470	9460	2230	3470	6910	8010	4560	3650	5820
22	1730	2250	2650	2430	6640	2220	2570	6050	7570	2660	3450	3280
23	8830	2160	2120	2550	9340	2240	2780	5440	5080	3430	3430	1740
24	5900	2080	3520	2750	5330	2220	2890	5230	2670	4390	3470	3900
25	3680	1770	3860	3830	3820	2040	2650	4990	4640	6300	2670	8570
26	2820	1420	3160	3150	3630	1990	2610	3590	8460	5410	2370	7810
27	2450	1850	2860	2410	3490	2360	3060	2690	9030	5530	3110	7270
28	1910	2220	2700	2150	3160	3010	6000	7060	4450	4330	5160	6660
29	1600	2960	2490	2190	---	10000	4620	5750	4800	3970	6340	3750
30	2030	2550	2070	4700	---	17700	6760	4710	3150	4620	8420	1870
31	2230	---	2480	11200	---	7760	---	4460	---	5160	8390	---
TOTAL	111720	78010	89600	103100	104530	131840	109350	242520	129560	140610	127780	146750
MEAN	3604	2600	2890	3326	3733	4253	3645	7823	4319	4536	4122	4892
MAX	8830	6110	6240	11200	9460	17700	6760	17200	9030	12500	8420	8570
MIN	1390	1420	1550	1830	1890	1990	2570	2690	1920	2240	1970	1740

CAL YR 1990	TOTAL 1986320	MEAN 5442	MAX 47600	MIN 1390	MEAN† 4941	CFSM† 2.03	IN† 27.61
WTR YR 1991	TOTAL 1515370	MEAN 4152	MAX 17700	MIN 1390	MEAN† 4430	CFSM† 1.82	IN† 24.76

†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 80113 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 1990 TO SEPTEMBER 1991

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 02...	0750	81341	1630	120	115	7.2	7.1	21.0	15.0	6.6	76
NOV 07...	1050	81341	3460	102	98	7.0	7.0	15.0	20.5	7.8	79
DEC 04...	0745	81341	7810	95	94	6.7	6.7	14.0	3.0	7.8	77
JAN 08...	0830	81341	2350	115	108	6.1	7.0	13.0	8.0	8.6	83
FEB 05...	0745	81341	2300	110	102	7.0	6.8	11.0	9.0	10.0	92
MAR 05...	0745	81341	4990	65	69	7.0	6.6	10.5	2.0	8.9	82
APR 02...	0645	81341	3400	80	76	7.0	6.9	14.0	4.5	8.2	81
MAY 07...	0630	81341	13900	58	55	6.7	6.6	19.0	10.0	7.0	77
JUN 04...	0530	81341	2370	107	103	7.1	7.0	25.0	22.5	6.0	75
JUL 09...	0615	81341	2910	108	101	7.1	6.9	25.0	22.5	6.4	79
AUG 06...	0600	81341	1920	112	104	7.2	6.9	26.0	22.5	6.1	77
SEP 03...	0600	81341	10400	53	49	6.9	6.5	20.5	17.0	6.6	75

APALACHICOLA RIVER BASIN

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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	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										
02...	81341	9.0	0.3	3300	21	13	1.83	0.090	0.300	2.8
NOV										
07...	81341	24	2.5	7000	22	38	1.24	0.150	0.250	3.6
DEC										
04...	81341	150	3.0	17000	19	257	1.17	0.200	0.390	13
JAN										
08...	81341	15	2.0	790	20	19	1.34	0.150	0.250	3.7
FEB										
05...	81341	19	1.3	230	19	50	1.29	0.160	0.170	7.4
MAR										
05...	81341	56	1.3	1000	17	39	0.730	0.080	0.140	6.3
APR										
02...	81341	44	1.3	1300	16	42	0.900	0.060	0.160	4.3
MAY										
07...	81341	150	4.0	12450	13	156	0.440	0.110	0.300	10
JUN										
04...	81341	22	1.3	330	21	38	1.51	0.110	0.200	25
JUL										
09...	81341	20	0.7	330	21	35	1.69	0.030	0.220	4.1
AUG										
06...	81341	11	0.4	700	22	14	1.76	0.060	0.300	3.1
SEP										
03...	81341	260	2.0	13000	11	359	0.740	0.050	0.210	5.1

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						
10...	1243	80113	3670	21.0	32	317
10...	1248	80113	3670	21.0	34	337
JAN						
07...	1344	80113	180	--	7	3.4
07...	1349	80113	180	--	8	3.9
30...	1540	80113	3880	--	101	1060
30...	1545	80113	3880	--	113	1180
31...	1318	80113	11300	--	405	12400
FEB						
11...	1445	80113	1950	12.0	8	42
11...	1450	80113	1950	12.0	8	42
25...	1245	80113	2050	14.0	39	216
25...	1250	80113	2050	14.0	40	221
JUN						
10...	1414	80113	1990	24.0	34	183
10...	1419	80113	1990	24.0	30	161
JUL						
29...	1344	80113	3820	--	45	464
29...	1349	80113	3820	--	44	454
SEP						
09...	1500	80113	2440	21.5	33	217
09...	1505	80113	2440	21.5	38	250

APALACHICOLA RIVER BASIN

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN 31...	1313	80113	11300	71

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
JAN 31...	1152	12000	<1	<1	4	28	58	85	94	99	100
31...	1153	12000	<1	1	6	28	42	61	83	92	100
31...	1154	12000	<1	<1	<1	40	40	60	60	100	100
31...	1156	12000	<1	<1	2	18	78	98	100	100	100

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 Gage Height, 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 1990 TO SEPTEMBER 1991

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										
02...	0830	6.44	95	92	7.1	7.2	22.0	19.0	7.2	84
NOV										
07...	1220	7.66	130	126	7.3	7.2	18.0	22.0	8.4	91
DEC										
04...	0930	8.89	110	109	7.2	6.9	15.0	5.0	9.3	94
JAN										
08...	1015	7.19	114	109	6.1	6.9	13.0	7.0	8.9	86
FEB										
05...	0915	7.64	105	100	7.1	7.0	10.0	9.5	10.5	94
MAR										
05...	0915	10.94	76	73	6.9	6.7	11.0	7.5	9.2	86
APR										
02...	0830	11.02	75	70	7.0	6.9	14.0	11.0	8.8	87
MAY										
07...	0805	17.25	57	54	6.5	6.4	19.0	14.0	7.2	79
JUN										
04...	0715	13.29	93	90	6.9	7.1	25.0	23.5	6.7	84
JUL										
09...	0800	13.26	103	96	7.2	7.0	26.0	24.5	6.5	82
AUG										
06...	0840	12.94	100	96	7.1	7.0	27.0	28.0	6.3	81
SEP										
03...	0740	15.69	60	57	7.0	6.6	21.0	19.5	7.0	80

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									
02...	12	<0.1	170	16	15	0.940	0.030	0.180	2.4
NOV									
07...	16	1.5	220	23	22	1.88	0.040	0.270	3.4
DEC									
04...	40	3.8	35000	18	63	1.37	0.080	0.290	8.1
JAN									
08...	13	1.4	230	16	18	1.36	0.160	0.230	3.8
FEB									
05...	21	0.9	130	19	26	1.17	0.120	0.120	8.2
MAR									
05...	58	1.7	1300	14	54	0.760	0.060	0.140	7.8
APR									
02...	46	1.0	1100	13	40	0.660	<0.030	0.140	4.6
MAY									
07...	120	2.4	9400	11	60	0.490	0.080	0.200	7.7
JUN									
04...	24	1.0	460	19	36	1.06	0.050	0.130	5.5
JUL									
09...	18	0.9	490	19	17	1.26	<0.030	0.120	3.4
AUG									
06...	10	0.2	1300	19	10	1.18	<0.030	0.210	2.6
SEP									
03...	180	1.8	17000	13	272	0.830	0.030	0.270	3.9

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.

REVISED RECORDS.--WDR GA-90-1: 1979(M).

GAGE.--Water-stage recorder. Datum of gage is 634.68 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 4-8, Dec. 19 to Jan. 1, Jan. 12 to Feb. 5, Feb. 12 to Mar. 25, Apr. 8 to May 5, May 27 to June 30, July 6-9, 18-20. Records good, except those for the periods of estimated daily discharges, which are fair to poor. Daily water temperature record available for water years 1979-84.

AVERAGE DISCHARGE.--13 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)
May 6	1400	*2,000	*9.34	No other peak greater than base discharge.			

Minimum daily discharge, 8.9 ft³/s, Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	31	41	95	350	140	335	300	150	115	165	78
2	9.4	30	41	90	240	160	237	220	160	99	134	62
3	8.9	30	50	84	190	460	188	180	220	87	113	57
4	9.3	31	100	81	160	400	160	160	170	78	102	51
5	13	31	200	79	140	290	146	240	160	76	91	47
6	14	36	130	77	127	240	142	1760	160	150	83	43
7	12	40	100	77	117	220	133	946	145	300	90	42
8	10	38	90	85	104	200	150	444	130	140	80	41
9	10	44	76	82	97	180	170	379	120	100	70	39
10	10	98	68	78	92	170	200	470	105	86	66	35
11	11	113	63	115	90	150	150	941	90	75	83	31
12	22	86	61	165	92	140	170	1070	80	63	145	27
13	43	65	59	170	92	160	170	646	70	53	172	24
14	29	57	57	125	92	200	140	483	65	52	130	23
15	22	51	57	120	100	180	130	382	75	55	136	23
16	18	47	57	130	98	160	120	298	75	49	116	24
17	15	45	57	110	92	140	110	242	85	56	95	23
18	25	46	56	95	96	150	105	233	100	80	83	20
19	42	49	72	100	98	150	130	219	150	200	82	20
20	32	45	85	170	94	130	170	188	190	120	73	22
21	24	43	100	180	450	120	260	176	150	83	63	24
22	25	42	90	140	330	110	230	165	120	69	57	25
23	102	43	85	115	250	110	200	157	115	64	53	23
24	139	46	120	140	400	100	170	148	130	59	51	26
25	85	46	130	190	240	96	150	137	150	220	52	152
26	58	43	105	180	210	91	130	135	180	161	73	195
27	45	42	95	150	180	89	120	160	250	131	76	97
28	40	42	95	130	150	94	230	210	350	285	65	64
29	36	43	105	120	---	123	420	300	300	304	59	50
30	33	42	120	150	---	897	450	290	200	666	60	42
31	32	---	110	500	---	695	---	180	---	357	89	---
TOTAL	984.0	1445	2675	4123	4771	6545	5616	11859	4445	4433	2807	1430
MEAN	31.7	48.2	86.3	133	170	211	187	383	148	143	90.5	47.7
MAX	139	113	200	500	450	897	450	1760	350	666	172	195
MIN	8.9	30	41	77	90	89	105	135	65	49	51	20
CFSM	.25	.38	.68	1.05	1.34	1.66	1.47	3.01	1.17	1.13	.71	.38
IN.	.29	.42	.78	1.21	1.40	1.92	1.65	3.47	1.30	1.30	.82	.42

CAL YR 1990	TOTAL 74835.0	MEAN 205	MAX 7740	MIN 7.9	CFSM 1.61	IN. 21.92
WTR YR 1991	TOTAL 51133.0	MEAN 140	MAX 1760	MIN 8.9	CFSM 1.10	IN. 14.98

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 Specific Conductance, pH, Water Temperature, Air Temperature, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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									
02...	0915	95	94	8.4	8.4	24.0	21.0	8.6	104
NOV									
07...	1300	115	112	7.0	7.0	19.0	23.0	8.5	94
DEC									
04...	1000	114	112	7.2	6.9	13.0	5.0	9.4	91
JAN									
08...	1100	99	96	6.1	6.8	11.0	9.0	8.8	81
FEB									
05...	1000	70	66	6.9	6.7	11.5	12.0	9.0	84
MAR									
05...	1000	68	62	6.9	6.5	12.0	9.5	8.0	76
APR									
02...	0905	73	69	6.9	6.7	16.0	13.5	7.2	74
MAY									
07...	0840	73	68	6.7	6.8	20.0	17.0	6.3	70
JUN									
04...	0800	77	74	8.8	8.6	28.0	25.0	9.8	129
JUL									
09...	0845	88	84	8.3	8.4	28.0	26.0	7.5	98
AUG									
06...	0930	85	77	8.8	9.2	29.0	30.0	9.8	130
SEP									
03...	0830	95	92	7.1	7.3	26.0	22.5	7.6	95

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						
02...	4.0	--	2.2	<20	22	5
NOV						
07...	12	--	1.9	<20	21	9
DEC						
04...	13	--	1.9	490	19	12
JAN						
08...	16	--	1.3	35	19	11
FEB						
05...	60	--	1.1	330	14	25
MAR						
05...	66	--	1.2	1300	15	32
APR						
02...	52	--	1.9	330	14	23
MAY						
07...	32	--	1.5	7900	15	25
JUN						
04...	5.0	--	2.7	<20	18	5
JUL						
09...	3.0	13	2.3	<20	20	4
AUG						
06...	4.0	9	2.0	<20	23	4
SEP						
03...	3.0	7	2.4	20	22	4

APALACHICOLA RIVER BASIN

02338720 CHATTAHOOCHEE RIVER NEAR LAGRANGE, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 02...	0.450	0.030	--	--	--	0.130	3.2
NOV 07...	1.30	0.050	--	--	--	0.200	3.4
DEC 04...	1.55	0.120	--	--	--	0.200	12
JAN 08...	1.12	0.130	--	--	--	0.150	3.8
FEB 05...	0.600	0.150	--	--	--	0.080	3.6
MAR 05...	0.620	0.110	--	--	--	0.120	4.9
APR 02...	0.610	0.100	--	--	--	0.140	5.0
MAY 07...	0.660	0.070	--	--	--	0.140	6.0
JUN 04...	0.400	0.030	--	--	--	0.080	3.7
JUL 09...	0.340	0.050	0.45	0.50	0.84	0.070	3.6
AUG 06...	0.150	<0.030	--	0.60	0.75	0.080	5.3
SEP 03...	0.740	0.090	0.51	0.60	1.3	0.140	5.0

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.--Estimated daily discharges: Dec. 25-Jan. 7. 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.--95 years, 5,572 ft³/s, 21.31 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, 21,400 ft³/s, May 12, gage height, 10.58 ft; minimum daily discharge, 609 ft³/s, Sept. 22.

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	6830	6790	731	5740	2420	10300	2170	9710	5650	5350	6560	3220
2	5440	3430	729	5760	883	1310	2170	9550	6150	5370	7130	8820
3	6120	701	3040	5800	843	1560	2130	9490	7450	5380	3110	5460
4	6330	699	6490	5840	8670	7910	6230	5040	7350	5380	3410	9060
5	6470	5530	5650	765	8750	10900	2140	6260	6030	5650	6580	9720
6	686	5580	6220	758	8720	10800	860	17300	5980	856	6670	9700
7	676	5620	6270	2900	8750	10800	848	17100	5970	791	6620	4960
8	4850	5640	765	2960	8790	10800	4780	16800	763	6000	6630	643
9	4860	5760	760	4810	802	8180	6450	16800	751	6160	6650	5770
10	4960	803	4150	2860	780	4590	7910	17400	4610	6030	732	5800
11	4980	764	5910	2950	5390	8880	7860	17600	5980	5990	733	8250
12	4940	6200	3630	842	5400	8940	7880	19400	6000	5970	4600	8450
13	680	4270	3600	799	3540	7630	849	18300	5960	2390	4590	8470
14	680	4200	3610	8780	3430	7710	837	16900	5980	762	5900	631
15	6900	4180	752	9100	3420	7630	5450	9880	769	7040	7860	610
16	7040	4160	753	9270	782	898	5450	8860	751	5290	11000	8450
17	7280	730	3400	6440	780	820	5430	8820	7230	5300	5350	8510
18	7160	725	4150	6470	4430	3530	5480	4880	7280	6590	4570	8510
19	7230	9280	5520	830	3510	3580	5530	4860	8820	10800	4600	8510
20	689	9570	5770	924	3530	3570	923	10900	8740	13900	4570	8560
21	678	9860	12200	4270	3620	3600	842	16500	8670	5880	4570	629
22	4630	9890	1100	4270	3580	3590	4780	14700	785	7240	4550	609
23	3560	9980	762	4270	1080	815	4790	8720	757	7250	1200	10400
24	2810	731	2920	4310	967	811	4800	8730	7170	7260	683	10600
25	2720	722	2880	4410	10000	2820	4780	4860	7210	7310	686	8310
26	2750	4540	2880	819	10100	2810	4780	4840	8760	7470	2650	8190
27	695	3770	2890	797	10100	2830	875	6990	18000	834	8290	8090
28	687	2300	7140	2160	10200	2840	962	6930	17100	778	6580	622
29	3390	2130	777	2130	---	2290	7660	6830	4220	6620	6540	613
30	3390	2190	761	2710	---	1440	8950	6770	804	6570	6520	10400
31	3410	---	5610	3220	---	1030	---	6560	---	6570	4550	---
TOTAL	123521	130745	111820	117964	133267	155214	124596	338280	181690	174781	154684	190567
MEAN	3985	4358	3607	3805	4760	5007	4153	10910	6056	5638	4990	6352
MAX	7280	9980	12200	9270	10200	10900	8950	19400	18000	13900	11000	10600
MIN	676	699	729	758	780	811	837	4840	751	762	683	609
CAL YR 1990	TOTAL 2732306		MEAN 7486		MAX 54600		MIN 605		MEAN† 6933		CFM† 1.95	
WTR YR 1991	TOTAL 1937129		MEAN 5307		MAX 19400		MIN 609		MEAN† 5733		CFM† 1.61	
	IN† 26.52											
	IN† 21.93											

†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 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.68	4.85	1.99	4.43	3.04	6.35	2.86	6.17	4.37	4.22	4.71	3.22
2	4.06	3.35	1.98	4.42	2.21	2.61	2.84	6.09	4.72	4.21	4.96	5.64
3	4.38	1.94	3.22	4.43	2.17	2.76	2.82	6.06	5.20	4.22	3.18	4.26
4	4.51	1.94	4.78	4.45	5.72	5.49	4.61	4.19	5.11	4.21	3.31	5.81
5	4.57	4.29	4.45	2.04	5.76	6.65	2.81	4.70	4.55	4.42	4.71	6.09
6	1.92	4.32	4.64	2.03	5.74	6.59	2.19	9.23	4.51	2.22	4.74	6.09
7	1.91	4.33	4.65	3.15	5.75	6.57	2.17	9.19	4.50	2.13	4.73	4.00
8	3.87	4.34	2.05	3.19	5.77	6.59	4.05	9.08	2.12	4.49	4.73	1.94
9	3.88	4.39	2.03	4.05	2.10	5.53	4.78	9.08	2.11	4.63	4.73	4.31
10	3.92	2.11	3.71	3.14	2.07	3.96	5.40	9.26	3.89	4.53	2.01	4.34
11	3.92	2.04	4.48	3.20	4.28	5.82	5.39	9.35	4.48	4.49	2.02	5.43
12	3.91	4.57	3.41	2.16	4.30	5.85	5.38	9.93	4.49	4.48	3.84	5.51
13	1.91	3.78	3.37	2.10	3.40	5.28	2.17	9.59	4.47	2.89	3.84	5.52
14	1.91	3.71	3.37	5.72	3.41	5.32	2.16	9.10	4.47	2.07	4.42	1.91
15	4.78	3.71	2.02	5.89	3.41	5.28	4.23	6.29	2.13	4.92	5.27	1.88
16	4.83	3.70	2.02	5.93	2.07	2.19	4.24	5.79	2.11	4.16	6.63	5.49
17	4.92	1.99	3.37	4.73	2.07	2.13	4.23	5.77	5.02	4.16	4.24	5.54
18	4.87	1.98	3.70	4.73	3.86	3.48	4.25	4.09	5.05	4.74	3.82	5.53
19	4.90	5.90	4.32	2.14	3.45	3.50	4.28	4.07	5.75	6.54	3.85	5.53
20	1.93	6.02	4.41	2.27	3.47	3.49	2.26	6.62	5.71	7.92	3.82	5.55
21	1.91	6.12	7.01	3.80	3.57	3.50	2.16	8.99	5.68	4.41	3.81	1.91
22	3.86	6.13	2.25	3.78	3.55	3.50	3.95	8.24	2.14	5.00	3.80	1.88
23	3.34	6.16	2.04	3.77	2.44	2.13	3.97	5.72	2.10	5.02	2.30	6.34
24	3.02	1.99	3.09	3.80	2.32	2.12	3.98	5.73	5.01	5.02	1.98	6.46
25	2.95	1.97	3.08	3.87	6.26	3.08	3.96	4.08	5.03	5.04	1.98	5.50
26	2.96	3.86	3.07	2.13	6.27	3.08	3.95	4.07	5.64	5.17	2.99	5.43
27	1.93	3.51	3.06	2.10	6.27	3.08	2.20	5.00	9.47	2.15	5.47	5.36
28	1.92	2.76	5.00	2.77	6.29	3.09	2.31	4.98	9.16	2.07	4.72	1.91
29	3.33	2.70	2.05	2.76	---	2.90	5.24	4.94	3.82	4.74	4.69	1.89
30	3.33	2.73	2.03	3.20	---	2.69	5.85	4.90	2.16	4.74	4.68	6.37
31	3.35	---	4.35	3.51	---	2.37	---	4.76	---	4.72	3.81	---
MEAN	3.47	3.71	3.39	3.54	3.97	4.10	3.69	6.61	4.50	4.31	3.99	4.55
MAX	4.92	6.16	7.01	5.93	6.29	6.65	5.85	9.93	9.47	7.92	6.63	6.46
MIN	1.91	1.94	1.98	2.03	2.07	2.12	2.16	4.07	2.10	2.07	1.98	1.88
CAL YR 1990	MEAN 4.93		MAX 18.08		MIN 1.77							
WTR YR 1991	MEAN 4.15		MAX 9.93		MIN 1.88							

APALACHICOLA RIVER BASIN

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical 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 1990 TO SEPTEMBER 1991

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 02...	1030	596	93	92	7.3	7.0	24.0	27.0	5.0	60
NOV 07...	1400	1460	87	85	7.0	7.0	17.0	23.0	7.5	79
DEC 04...	1130	2310	63	60	6.8	6.8	12.0	8.0	9.0	84
JAN 08...	1200	1280	73	70	6.0	6.9	12.0	9.0	8.6	81
FEB 05...	1105	15900	90	92	7.1	7.0	10.0	18.0	10.3	92
MAR 05...	1115	16300	80	78	7.1	6.8	11.0	13.5	10.4	96
APR 02...	1030	874	56	52	7.0	7.0	16.0	22.5	7.9	81
MAY 07...	1000	17200	73	70	7.0	6.8	20.0	23.0	6.2	69
JUN 04...	0910	817	64	61	6.7	6.9	25.0	28.5	7.0	87
JUL 09...	1000	980	58	53	7.1	6.8	24.0	29.0	6.5	79
AUG 06...	1100	733	82	74	6.9	6.8	27.0	33.5	4.1	52
SEP 03...	0945	672	84	79	7.2	6.9	26.0	25.5	4.7	59

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 02...	1.0	0.4	50	18	0.350	0.080	0.110	2.2	130	49
NOV 07...	6.0	1.4	80	19	0.520	0.090	0.110	1.8	40	<10
DEC 04...	40	2.0	7000	17	0.130	<0.030	0.130	9.8	4300	720
JAN 08...	13	0.9	790	20	0.280	0.080	0.070	3.9	1400	140
FEB 05...	7.0	0.7	50	17	0.910	0.120	0.090	4.9	660	54
MAR 05...	23	0.7	80	15	0.790	<0.030	0.090	3.5	770	54
APR 02...	13	0.3	220	19	0.160	<0.030	0.170	3.0	1100	59
MAY 07...	14	1.0	330	16	0.430	0.040	0.090	4.7	850	25
JUN 04...	12	0.9	310	20	0.220	0.050	0.080	3.4	1500	--
JUL 09...	31	0.8	4900	22	0.090	<0.030	0.060	5.4	--	--
AUG 06...	5.0	0.6	20	23	0.260	0.140	0.100	2.9	360	21
SEP 03...	3.0	1.5	20	22	0.290	0.070	0.050	3.1	--	--

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 1990 TO SEPTEMBER 1991

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										
02...	1000	13	750	770	7.8	7.6	20.5	25.0	4.9	55
NOV										
07...	1340	40	390	379	7.3	7.3	14.0	23.0	6.2	61
DEC										
04...	1100	165	145	148	6.6	6.6	12.0	7.0	6.5	61
JAN										
08...	1145	98	200	195	5.9	6.8	13.5	9.0	7.4	72
FEB										
05...	1045	100	150	147	6.8	6.7	11.0	17.0	8.4	77
MAR										
05...	1045	390	80	75	6.8	6.6	10.0	12.5	8.6	78
APR										
02...	1000	115	135	130	6.9	6.8	14.0	20.5	7.0	69
MAY										
07...	0930	290	102	96	6.9	6.8	18.0	17.0	5.7	61
JUN										
04...	0850	92	163	157	6.7	7.0	25.0	30.0	5.1	63
JUL										
09...	0930	125	170	163	7.3	7.0	24.0	29.0	6.8	82
AUG										
06...	1015	24	320	318	7.4	7.3	26.5	31.0	5.3	67
SEP										
03...	0915	27	320	326	7.2	7.3	23.0	26.5	5.3	63

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								
02...	7.0	0.5	230	127	3.81	0.060	1.75	11
NOV								
07...	6.0	2.5	400	72	3.54	0.080	0.880	11
DEC								
04...	90	>7.2	4900	25	0.740	<0.030	0.500	14
JAN								
08...	21	1.6	330	36	0.910	0.030	0.440	6.4
FEB								
05...	14	0.8	330	24	0.690	0.200	0.440	4.6
MAR								
05...	23	0.8	330	14	0.260	0.040	0.160	5.5
APR								
02...	18	1.0	220	24	0.580	0.080	0.290	4.9
MAY								
07...	29	1.2	1300	27	0.340	0.160	0.260	6.9
JUN								
04...	23	1.6	4900	39	0.880	0.120	0.330	5.3
JUL								
09...	26	0.7	2300	37	0.630	0.040	0.260	4.9
AUG								
06...	7.0	0.6	330	61	1.94	0.040	0.880	6.2
SEP								
03...	9.0	1.0	340	60	1.98	0.030	0.650	8.0

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, 10.66 ft, May 12.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.17	8.89	8.01	8.88	8.47	9.41	7.99	9.48	8.64	8.78	9.00	8.19
2	8.45	8.43	7.88	8.81	7.82	8.35	8.02	9.45	8.95	8.81	9.08	8.87
3	8.72	7.16	8.38	8.82	7.74	8.38	8.05	9.35	9.09	8.81	8.54	8.82
4	8.54	7.41	8.83	8.82	9.20	9.13	8.82	8.71	9.14	8.82	8.53	9.17
5	8.71	8.73	8.98	8.06	9.27	9.59	7.95	8.75	9.02	9.09	8.91	9.28
6	8.03	8.79	8.90	7.93	9.26	9.53	8.14	10.36	8.93	8.24	9.01	9.33
7	8.05	8.79	8.92	8.30	9.26	9.53	8.01	10.37	8.92	8.09	9.00	8.66
8	8.54	8.79	8.07	8.36	9.27	9.52	8.62	10.32	8.08	8.86	9.00	7.58
9	8.18	8.82	7.95	8.66	7.70	9.23	8.94	10.34	8.00	8.97	9.00	8.33
10	8.28	7.54	8.55	8.34	8.20	8.69	9.13	10.46	8.65	8.93	8.10	8.66
11	8.24	7.35	8.75	8.34	8.79	9.31	9.14	10.46	8.83	8.92	8.04	9.05
12	8.24	8.77	8.51	7.71	8.83	9.33	9.12	10.52	8.88	8.90	8.77	9.08
13	7.90	8.73	7.95	7.43	8.55	9.15	8.32	10.45	8.87	8.41	8.78	9.08
14	7.83	8.57	8.08	9.14	8.05	9.16	8.23	10.30	8.88	7.99	8.95	7.55
15	8.71	8.57	7.93	9.36	8.51	9.16	8.49	9.64	8.07	8.90	9.14	7.25
16	8.75	8.62	7.92	9.30	8.09	7.75	8.51	9.22	7.94	8.81	9.55	8.75
17	8.74	8.08	8.40	8.95	7.95	6.63	8.56	9.24	8.90	8.81	9.04	9.09
18	8.76	8.17	8.48	8.94	8.59	8.12	8.52	8.68	9.07	9.01	8.72	9.10
19	8.75	9.33	8.78	7.67	8.48	8.47	8.65	8.50	9.32	9.50	8.70	9.15
20	8.02	9.31	8.83	8.15	8.49	8.46	8.02	9.43	9.33	10.14	8.71	9.09
21	7.86	9.34	9.52	8.70	8.56	8.46	7.46	10.27	9.29	8.87	8.70	7.30
22	8.56	9.35	7.92	8.58	8.56	8.52	7.81	10.16	8.12	9.06	8.70	6.24
23	8.14	9.37	7.93	8.56	8.16	8.12	8.54	9.16	7.96	9.10	8.26	8.65
24	8.03	8.06	8.29	8.62	8.00	8.00	8.50	9.21	8.92	9.10	7.96	9.48
25	7.99	7.94	7.95	8.65	9.14	8.29	8.39	8.66	9.08	9.11	7.91	9.30
26	7.94	8.66	8.07	7.70	9.40	7.97	8.51	8.87	9.20	9.17	8.40	9.15
27	8.02	8.55	7.89	8.03	9.40	8.14	7.74	9.26	10.42	8.21	9.18	9.06
28	7.87	7.78	8.55	8.18	9.40	7.88	7.98	9.15	10.35	8.03	9.04	7.57
29	8.39	7.77	8.10	7.74	---	7.62	8.97	9.01	8.90	8.91	8.73	7.42
30	8.37	7.87	7.92	8.25	---	8.37	9.31	8.96	8.07	9.03	8.69	9.14
31	8.39	---	8.71	8.67	---	8.16	---	8.82	---	9.01	8.36	---
MEAN	8.30	8.45	8.35	8.44	8.61	8.59	8.41	9.53	8.86	8.85	8.73	8.58
MAX	8.76	9.37	9.52	9.36	9.40	9.59	9.31	10.52	10.42	10.14	9.55	9.48
MIN	7.83	7.16	7.88	7.43	7.70	6.63	7.46	8.50	7.94	7.99	7.91	6.24
CAL YR 1990	MEAN 8.71			MAX 12.03	MIN 5.54							
WTR YR 1991	MEAN 8.64			MAX 10.52	MIN 6.24							

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 Bartlett's 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). WDR GA-90-1: 1967(M), 1969(M), 1971-72(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: Sept. 6-13, 16, 18, 19, 25, and 26. 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.--62 years, 6,748 ft³/s, 19.62 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, 40,400 ft³/s, May 12; maximum gage height, 19.80, May 12; minimum daily discharge, 1,410 ft³/s, Dec. 1.

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	4970	4950	1410	6160	10400	12600	3590	14500	7300	5260	8020	3660
2	5120	5390	1500	6910	5200	19200	2930	11000	13100	7620	7420	8890
3	3920	1430	3440	6910	3810	12900	4030	12200	11300	7000	5090	9880
4	6270	1520	4840	6610	9340	14500	7170	7040	9620	8090	5800	11200
5	6390	3270	6650	2150	11600	14300	5370	8400	8970	8630	7220	9810
6	2150	5070	6520	1990	10100	13300	3780	16000	8900	5780	7880	8800
7	2060	4500	6130	4140	10300	13800	3730	21700	6910	2910	7860	7000
8	3440	6270	1710	4600	10100	14000	4920	21100	2690	7640	7980	1900
9	4300	6000	1880	5570	6330	12500	8110	23000	2310	8070	8220	6000
10	6420	1940	4610	5230	2180	6890	12300	27800	4700	8550	5530	6000
11	5930	2340	5960	4160	4970	9370	8620	29500	6750	8030	2520	10000
12	3940	5420	5300	2170	3780	10400	10400	32000	7200	6230	6340	9800
13	2300	4100	4050	2130	6300	10400	3120	27300	7490	4380	6880	9800
14	2050	4660	2240	9010	4430	10100	3010	21400	7090	2700	7890	4660
15	6450	4520	1580	12500	4820	8530	5520	20200	3010	7490	12300	2220
16	7370	4020	1550	11600	2130	2890	6380	10100	2920	6480	13900	6800
17	7690	1940	3500	6870	2050	1830	6660	11400	8560	6610	8130	7330
18	7400	2140	4680	6110	4580	3860	6670	9080	7420	8270	7030	8600
19	7400	8020	5660	4620	4160	5200	8180	7940	9160	10400	6850	9000
20	1740	7270	5210	3890	5550	4690	4860	11100	10100	14600	5880	8860
21	1810	8260	10500	6000	5100	5140	2200	19300	11200	9220	6160	3370
22	5420	10300	8030	5880	5910	4660	5120	18100	2670	9010	5550	2680
23	4650	10600	3560	5240	5930	1900	6160	10500	2620	8470	4490	8840
24	2560	3140	2080	7120	5810	2290	6420	10800	8680	9050	2560	11200
25	2110	1460	1950	6690	7590	3600	6570	7610	7900	8340	2230	11900
26	2780	4270	3600	2820	11300	3470	5920	7490	9130	8320	3050	9200
27	1510	4500	3080	2520	11400	3950	4260	9740	21600	3270	8210	9380
28	1480	2330	5760	4030	13800	5010	4740	12800	24700	2950	9490	2890
29	2100	2400	2220	4530	---	11800	8160	12200	11100	7210	7340	1940
30	2750	2370	2520	14900	---	15400	13600	10800	2890	7210	6280	8630
31	3990	---	4430	17000	---	6930	---	7560	---	7480	5590	---
TOTAL	128470	134400	126150	190060	188970	265410	182500	469660	247990	225270	209690	220240
MEAN	4144	4480	4069	6131	6749	8562	6083	15150	8266	7267	6764	7341
MAX	7690	10600	10500	17000	13800	19200	13600	32000	24700	14600	13900	11900
MIN	1480	1430	1410	1990	2050	1830	2200	7040	2310	2700	2230	1900

CAL YR 1990 TOTAL 3404570 MEAN 9328 MAX 88900 MIN 1340 MEAN† 8696 CFSM† 1.86 IN† 25.29
WTR YR 1991 TOTAL 2588810 MEAN 7093 MAX 32000 MIN 1410 MEAN† 7522 CFSM† 1.61 IN† 21.87

†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 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.85	4.93	2.82	5.99	9.91	9.64	7.36	11.27	8.49	7.44	8.88	6.36
2	5.11	5.23	2.97	6.42	7.45	13.95	7.00	9.83	10.62	8.20	8.64	8.34
3	4.34	2.89	4.18	6.65	6.26	11.60	7.35	10.21	10.03	8.16	7.87	8.74
4	5.57	3.03	4.82	6.63	8.39	11.77	8.33	8.25	9.54	8.63	8.13	9.03
5	5.88	4.06	6.18	4.93	9.36	11.23	7.88	8.57	9.19	8.85	8.63	8.55
6	3.58	5.01	6.18	4.90	8.75	10.69	7.20	11.40	8.96	8.25	8.84	---
7	3.56	4.68	6.18	5.84	8.84	10.62	7.32	13.55	8.37	7.42	8.72	---
8	4.40	5.73	3.94	6.04	8.69	10.58	7.68	13.44	6.79	8.73	8.68	---
9	4.81	5.88	4.13	6.38	7.28	9.86	8.58	14.23	6.61	9.06	8.87	---
10	5.83	3.82	5.47	6.43	5.42	7.46	10.38	16.14	7.33	9.12	7.98	---
11	5.71	3.98	6.14	6.06	6.35	8.51	9.02	16.90	7.91	9.01	6.97	---
12	4.66	5.40	5.66	5.43	5.74	8.62	9.63	17.74	8.06	8.45	8.30	---
13	3.55	4.83	4.96	5.53	6.74	8.85	7.10	16.19	7.99	7.61	8.38	---
14	3.38	4.94	3.81	8.13	5.83	8.66	6.67	14.09	7.70	7.04	8.72	6.03
15	5.64	4.85	3.26	9.65	5.89	7.82	7.28	13.65	6.09	8.40	10.53	4.84
16	6.34	4.29	3.21	9.39	4.70	5.13	7.43	9.85	6.17	8.51	10.95	---
17	6.52	2.74	4.21	7.61	4.70	4.95	7.48	10.03	8.26	8.54	9.16	6.89
18	6.26	2.90	4.84	6.87	5.85	5.96	7.59	9.13	7.92	9.01	8.59	---
19	6.28	6.48	5.40	6.28	5.61	6.39	7.90	8.82	8.43	9.82	8.41	---
20	2.87	5.95	5.07	6.19	6.25	6.14	6.78	9.90	8.82	11.05	8.15	7.57
21	2.85	6.75	7.85	7.11	6.15	6.33	6.01	12.73	9.28	9.24	8.22	5.03
22	5.08	7.86	6.73	7.06	6.31	6.10	6.93	12.57	5.88	9.23	7.93	4.46
23	4.89	8.03	4.22	6.77	6.67	5.02	7.13	9.78	5.86	9.11	7.41	7.33
24	3.49	4.17	3.34	7.54	6.59	5.28	7.25	9.76	8.03	9.27	6.60	8.59
25	3.28	2.89	3.18	7.50	7.50	5.78	7.46	8.68	7.96	9.15	6.63	---
26	3.63	4.63	4.05	5.92	9.10	5.79	7.22	8.68	8.67	9.23	6.95	---
27	2.96	4.92	3.80	5.84	9.22	5.78	6.75	9.59	13.37	7.32	8.45	7.57
28	2.99	3.48	5.19	6.38	10.21	6.09	7.08	11.01	14.69	7.13	8.88	4.00
29	3.31	3.43	3.67	6.57	---	9.53	8.74	10.72	10.11	8.41	8.01	3.33
30	3.70	3.47	3.78	10.82	---	13.41	10.90	10.15	6.79	8.46	7.58	6.81
31	4.34	---	4.79	12.96	---	9.44	---	8.68	---	8.64	7.13	---
MEAN	4.51	4.71	4.65	6.96	7.13	8.29	7.71	11.47	8.46	8.60	8.30	---
MAX	6.52	8.03	7.85	12.96	10.21	13.95	10.90	17.74	14.69	11.05	10.95	---
MIN	2.85	2.74	2.82	4.90	4.70	4.95	6.01	8.25	5.86	7.04	6.60	---

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.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--23 years, 454 ft³/s, 18.03 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)
Jan. 30	2030	4,610	11.30	Mar. 29	2045	*8,300	*14.96
Mar. 2	0800	5,910	12.70				

Minimum discharge, 112 ft³/s, Oct. 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	137	145	182	1470	428	1280	551	334	214	253	199
2	128	137	147	238	777	4580	958	436	437	197	245	186
3	123	137	154	227	576	3320	796	352	336	200	251	179
4	121	136	179	199	491	2450	697	313	285	185	281	175
5	125	139	178	183	431	1390	715	319	256	171	244	168
6	124	145	163	174	468	974	751	518	240	544	234	174
7	120	145	163	180	550	796	654	416	224	490	242	195
8	117	144	208	212	487	693	729	341	207	341	226	193
9	116	166	198	199	409	644	766	421	195	280	199	205
10	117	254	171	182	358	591	742	729	185	242	595	182
11	131	223	161	227	329	534	623	1450	181	215	614	165
12	145	172	157	271	307	507	540	1060	171	215	433	156
13	147	156	154	255	299	648	494	719	166	193	361	153
14	139	151	154	213	312	730	457	544	161	168	404	148
15	130	148	154	199	290	595	426	468	160	162	672	144
16	124	147	154	355	260	511	409	664	160	231	441	142
17	121	147	154	345	258	499	383	475	162	521	330	146
18	144	145	160	259	279	553	355	379	159	970	286	147
19	163	145	184	237	274	504	339	386	170	617	274	169
20	152	146	210	296	272	450	332	381	243	456	267	274
21	138	147	237	280	332	417	314	350	251	367	241	284
22	140	147	208	235	357	410	301	336	240	312	216	219
23	192	149	184	212	886	397	321	330	244	290	203	188
24	197	153	263	327	704	382	322	316	206	274	198	177
25	163	152	247	673	527	360	295	320	194	264	245	357
26	148	149	196	479	430	342	340	361	255	244	267	401
27	143	149	172	361	367	333	585	489	343	234	265	281
28	140	150	166	322	334	333	553	692	320	224	284	217
29	138	150	165	323	---	2740	747	533	271	381	243	188
30	137	147	165	1930	---	6280	843	379	251	326	223	170
31	137	---	169	2980	---	2360	---	308	---	281	210	---
TOTAL	4290	4613	5520	12755	12834	35751	17067	15336	7007	9809	9447	5982
MEAN	138	154	178	411	458	1153	569	495	234	316	305	199
MAX	197	254	263	2980	1470	6280	1280	1450	437	970	672	401
MIN	116	136	145	174	258	333	295	308	159	162	198	142
CFSM	.40	.45	.52	1.20	1.34	3.37	1.66	1.45	.68	.93	.89	.58
IN.	.47	.50	.60	1.39	1.40	3.89	1.86	1.67	.76	1.07	1.03	.65

CAL YR 1990	TOTAL 233562	MEAN 640	MAX 31600	MIN 106	CFSM 1.87 IN. 25.40
WTR YR 1991	TOTAL 140411	MEAN 385	MAX 6280	MIN 116	CFSM 1.12 IN. 15.27

APALACHICOLA RIVER BASIN

0234296910 CHATTAHOOCHEE RIVER AT COAST GUARD DOCK AT EUFAULA, ALA.

LOCATION.--Lat 31°54'29", long 85°08'42", in SE 1/4 sec. 29, T. 11 W., R. 29 E., Barbour County, Hydrologic Unit 03130003, at Coast Guard Dock near mouth of Chewalla Creek, 1 mi north of Eufaula, and at mile 97.8.

DRAINAGE AREA.--6,730 mi².

PERIOD OF RECORD.--October 1989 to current year (elevation only). Elevation records since April 1967 in files of U.S. Army Corps of Engineers.

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

REMARKS.--Gage is in pool of Walter F. George Lake formed by dam at mile 75.0.

CURRENT PERIOD.--Water year 1990: Maximum elevation, 195.6 ft, Mar. 18; minimum elevation, 185.3 ft, Sept. 22.

Water year 1991: Maximum elevation, 190.7 ft, May 12, 14, 29; minimum elevation, 185.1 ft, Nov. 17.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY OBSERVATION AT 07:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	186.40	---	---	189.80	187.70	187.70	188.20	188.50	189.40	188.80	186.70	186.50
2	187.10	---	---	189.40	187.30	187.70	188.70	188.40	189.40	187.70	186.70	186.60
3	187.70	---	---	189.10	187.10	188.20	188.80	188.40	189.40	188.90	186.50	186.70
4	188.40	---	---	188.70	187.40	188.60	188.80	188.50	189.50	188.70	186.60	186.40
5	189.10	---	---	188.50	187.60	188.90	188.50	188.50	189.50	188.70	187.70	186.20
6	189.10	---	---	189.40	187.60	188.60	188.50	188.70	189.50	188.60	186.90	186.10
7	189.20	---	---	189.70	187.50	188.50	188.40	188.90	189.50	188.50	186.90	186.10
8	189.30	---	---	189.90	187.30	188.30	188.40	189.00	189.40	188.50	186.90	186.00
9	189.50	---	---	190.00	187.10	188.30	188.40	189.00	189.30	188.40	186.90	186.10
10	189.50	---	---	189.80	187.30	188.40	188.40	189.30	189.30	188.30	186.90	186.20
11	189.60	---	---	189.60	187.30	188.20	188.50	189.40	189.60	188.30	186.90	186.00
12	189.70	---	---	189.30	187.10	188.00	188.60	189.60	189.50	188.20	186.90	185.90
13	189.70	---	---	189.40	187.00	187.90	188.60	190.00	189.30	188.10	186.70	---
14	189.90	---	---	189.40	186.70	187.90	188.30	190.00	189.20	187.80	186.80	---
15	190.10	---	---	188.90	186.40	187.90	188.30	190.00	188.70	187.70	186.90	---
16	190.10	---	---	188.50	186.10	188.20	188.30	189.80	187.90	187.90	186.90	---
17	190.10	---	---	188.20	186.60	194.10	188.30	189.80	188.10	187.90	186.90	---
18	189.90	---	---	188.00	186.70	195.60	188.20	189.80	188.20	188.00	186.90	---
19	189.90	---	---	187.70	188.10	195.10	188.30	189.80	187.90	---	186.90	185.70
20	189.90	---	190.40	187.50	189.20	193.90	188.30	189.90	187.50	---	186.80	185.50
21	189.80	---	190.30	187.60	189.60	193.00	188.40	190.10	187.10	---	186.90	185.40
22	189.70	---	190.00	188.70	189.70	192.30	188.40	190.20	187.30	---	186.80	185.30
23	189.60	---	189.50	188.40	189.80	191.20	188.30	190.20	187.40	---	186.90	185.50
24	189.40	---	189.40	188.30	189.50	190.40	188.30	190.20	187.40	---	186.80	185.50
25	189.30	---	189.00	188.10	189.20	189.90	188.30	190.10	187.30	---	186.70	185.40
26	189.10	---	188.50	188.20	189.00	189.80	188.40	189.90	187.40	---	186.80	185.40
27	188.90	---	188.40	188.40	188.50	189.60	188.10	189.70	187.50	186.80	186.90	185.40
28	188.80	---	188.10	188.30	188.00	189.50	187.80	188.10	187.90	186.70	186.80	185.40
29	189.00	---	187.90	188.50	---	189.20	188.20	187.80	188.30	186.80	186.80	185.50
30	189.10	---	187.40	188.20	---	189.00	188.50	188.20	188.90	186.90	186.70	185.70
31	---	---	187.80	187.90	---	188.90	---	188.50	---	186.80	186.70	---
MEAN	---	---	---	188.75	187.80	189.77	188.38	189.30	188.55	---	186.84	---
MAX	---	---	---	190.00	189.80	195.60	188.80	190.20	189.60	---	187.70	---
MIN	---	---	---	187.50	186.10	187.70	187.80	187.80	187.10	---	186.50	---

APALACHICOLA RIVER BASIN

0234296910 CHATTAHOOCHEE RIVER AT COAST GUARD DOCK AT EUFAULA, ALA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY OBSERVATION AT 07:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185.80	186.00	185.80	186.50	189.90	188.20	189.60	190.00	189.80	189.30	190.00	188.90
2	185.80	185.80	185.80	186.90	189.50	188.90	189.60	190.00	189.90	189.30	189.90	188.90
3	185.80	185.80	186.00	187.30	188.70	189.60	189.60	189.80	190.20	189.50	190.00	188.80
4	185.90	185.90	186.00	187.60	188.90	189.60	189.60	189.60	190.30	189.60	190.10	188.70
5	186.00	186.00	186.10	187.90	188.90	189.50	189.60	189.20	190.10	189.80	190.00	188.40
6	186.20	185.90	186.40	188.00	188.80	189.40	189.70	188.90	190.00	190.00	190.00	188.10
7	186.30	186.00	186.60	188.10	188.70	189.00	189.70	189.00	190.00	190.20	189.90	188.10
8	186.40	186.20	186.90	188.20	188.60	188.70	189.80	189.20	189.70	190.10	189.90	188.20
9	186.30	186.40	186.90	188.20	188.50	188.50	189.70	189.40	189.60	190.20	189.90	188.00
10	186.20	186.60	186.80	188.30	188.60	188.60	189.80	189.70	189.60	190.20	189.90	187.90
11	186.30	186.60	186.70	188.40	188.50	188.70	190.10	190.40	189.40	190.10	189.90	187.70
12	186.40	186.60	186.90	188.50	188.20	188.50	190.00	190.70	189.40	190.00	189.90	187.60
13	186.20	186.40	186.80	188.60	187.90	188.30	189.90	190.60	189.20	189.80	189.90	187.40
14	186.10	186.00	186.40	188.80	187.90	188.20	189.50	190.70	189.00	189.80	190.10	187.20
15	186.00	185.70	186.30	188.80	187.90	188.10	189.10	190.60	188.70	189.80	190.20	187.40
16	185.90	185.50	186.20	188.90	187.80	187.80	189.00	190.40	188.80	189.80	190.10	187.50
17	185.70	185.10	186.10	188.90	187.80	188.10	188.90	189.90	188.90	189.80	190.10	187.30
18	185.70	185.20	186.00	188.60	188.00	188.40	188.80	189.90	188.90	190.30	190.10	187.10
19	185.50	185.40	185.90	188.30	188.00	188.10	188.70	190.10	188.80	190.20	190.10	187.00
20	185.40	185.40	185.80	188.70	188.00	188.30	188.70	190.30	188.70	189.80	190.00	187.20
21	185.40	185.40	185.60	188.90	188.10	188.30	188.80	190.10	188.70	189.80	189.90	187.50
22	185.60	185.40	185.60	188.90	187.90	188.00	188.80	190.20	188.50	190.00	189.80	187.40
23	185.60	185.50	185.90	188.90	188.00	188.00	188.70	190.20	188.50	190.00	189.60	187.20
24	185.60	185.50	186.00	188.80	188.30	188.10	188.60	190.10	188.50	190.20	189.50	187.40
25	185.70	185.80	185.90	189.00	188.70	188.30	188.60	190.00	188.80	190.10	189.70	187.50
26	185.70	185.90	185.70	188.90	188.40	188.20	188.60	190.00	189.10	189.90	189.50	187.70
27	185.80	185.90	185.80	188.90	188.30	188.10	188.80	190.10	189.20	189.80	189.40	188.00
28	185.90	185.90	185.80	188.90	188.20	187.70	189.10	190.50	189.70	189.80	189.20	188.30
29	186.00	185.80	186.10	188.90	---	187.50	189.40	190.70	190.00	189.80	189.00	188.20
30	185.90	185.80	186.20	189.00	---	188.80	189.80	190.50	189.70	189.90	188.70	188.10
31	186.00	---	186.30	189.90	---	189.50	---	190.10	---	189.90	188.80	---
MEAN	185.91	185.85	186.17	188.47	188.39	188.48	189.29	190.03	189.32	189.90	189.78	187.82
MAX	186.40	186.60	186.90	189.90	189.90	189.60	190.10	190.70	190.30	190.30	190.20	188.90
MIN	185.40	185.10	185.60	186.50	187.80	187.50	188.60	188.90	188.50	189.30	188.70	187.00
WTR YR 1991	MEAN 188.29		MAX 190.70		MIN 185.10							

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.--No estimated daily discharges. Records good to 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.--16 years, 10,710 ft³/s, 17.72 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, 65,200 ft³/s, Mar. 3, maximum headwater gage height, 104.71 ft, Mar. 3, maximum tailwater gage height, 102.68 ft, Mar. 3; minimum daily discharge, 624 ft³/s, Nov. 4.

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	4840	9150	1070	2780	33600	17400	8240	11800	11600	7490	7900	1200
2	5920	5830	743	3410	27600	26100	6960	18300	11400	7070	9730	9790
3	3550	1310	3030	2860	13900	62400	7240	18400	12500	6500	5330	10300
4	3960	624	4040	2830	15700	53000	11100	18400	14000	6240	5140	14800
5	3660	4670	4430	924	15900	30500	7690	18400	16300	5780	9260	15100
6	1250	4700	2760	898	16400	28300	7930	18700	11900	5960	10000	14700
7	772	3410	2640	5430	17100	27900	5470	18900	11100	7810	10000	8250
8	4430	3300	762	4390	16400	27500	9460	18400	6910	11100	9590	1210
9	5170	3300	876	6850	7360	17200	10900	18700	3990	11900	9370	9910
10	5480	3320	4070	4830	6820	10100	11900	18700	7770	12800	6020	10800
11	5750	3670	9240	5250	12000	17800	12400	29300	9750	12400	7340	12600
12	7510	9840	9960	1800	12300	18400	14300	36100	11200	12000	8870	12800
13	5440	11600	10200	1410	9110	17400	14000	33400	11000	5510	9210	13200
14	4590	11300	10100	11200	7970	17000	13600	25600	14000	4950	9300	1900
15	9410	11500	4440	13300	8460	17000	11400	25200	1750	10300	12200	920
16	9670	11300	4110	13300	4870	2410	11200	25000	1330	8200	14600	10700
17	10400	1800	7870	13200	1160	1840	11100	19800	9270	10400	9770	12200
18	10900	788	8260	13100	5680	11500	11700	8490	10300	15400	8850	10100
19	10600	7630	9510	3160	6260	11000	11100	8030	13100	18300	9280	11900
20	1340	9350	12700	2540	6590	10200	3430	14600	13600	23000	9220	14700
21	764	9310	12500	8440	10900	10100	1830	18300	13000	11000	9100	6710
22	4510	9030	4490	8530	11300	9730	11600	18200	6390	9630	8610	6200
23	5210	9460	2880	8440	5930	1630	12100	18300	5110	9900	8670	13700
24	2290	2040	6060	9130	3410	1690	12000	13900	8450	9930	5380	15600
25	1970	992	6940	14500	14100	7620	6520	15100	8810	13400	2020	16000
26	1940	3730	5730	6000	16700	8840	7460	10600	14500	13400	8050	15300
27	1240	4950	2770	5200	16300	14200	2980	10700	14900	7400	12300	15400
28	750	4850	2700	7280	16500	9010	2520	13000	26400	4880	12500	6800
29	1910	4900	912	9230	---	3540	9830	18500	20800	9090	13000	6230
30	2930	3710	743	25100	---	15200	12900	23000	14600	8400	12700	11000
31	4840	---	2470	34000	---	24100	---	20400	---	8080	4140	---
TOTAL	142996	171364	159006	249312	340320	530610	280860	584220	335730	308220	277450	310020
MEAN	4613	5712	5129	8042	12150	17120	9362	18850	11190	9943	8950	10330
MAX	10900	11600	12700	34000	33600	62400	14300	36100	26400	23000	14600	16000
MIN	750	624	743	898	1160	1630	1830	8030	1330	4880	2020	920

CAL YR 1990 TOTAL 4946379 MEAN 13550 MAX 191000 MIN 537 MEAN† 12750 CFSM† 1.55 IN† 21.09
WTR YR 1991 TOTAL 3690108 MEAN 10110 MAX 62400 MIN 624 MEAN† 10540 CFSM† 1.28 IN† 17.43

†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.

REMARKS.--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Present data above the $\mu\text{g/L}$ level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey will begin using new trace-element protocols in the near future.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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
NOV 05...	1130	3800	100	99	7.8	7.5	19.5	8.6	94	28	23
JAN 31...	0800	32900	87	87	7.3	7.6	12.0	9.8	90	21	17
APR 26...	0830	11400	65	71	7.2	7.3	21.0	6.9	77	20	16
MAY 23...	1230	18200	72	75	7.1	7.2	24.0	6.5	77	22	18
JUL 11...	1130	18700	73	71	7.1	7.2	28.0	4.9	63	22	18
SEP 05...	1530	24300	77	78	7.5	7.2	28.0	6.6	84	26	21

DATE	ALKA-LINITY WAT.DIS FET LAB CaCO3 (MG/L)	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)	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 05...	25	2.7	E7	K6	24	6.8	1.7	9.5	43	0.8	2.4
JAN 31...	19	35	K2900	--	19	5.6	1.2	7.5	43	0.8	2.3
APR 26...	16	6.0	52	K11	19	5.9	1.1	4.8	33	0.5	1.8
MAY 23...	19	6.0	K12	24	20	5.9	1.3	5.8	36	0.6	1.6
JUL 11...	20	5.5	60	51	32	9.7	1.9	4.9	24	0.4	1.3
SEP 05...	22	3.0	22	90	21	6.2	1.4	5.8	35	0.5	1.9

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 05...	8.3	5.5	<0.10	7.6	55	57	564	0.08
JAN 31...	11	6.6	0.10	6.1	48	53	4260	0.06
APR 26...	7.9	4.2	<0.10	5.8	50	43	1540	0.07
MAY 23...	9.1	5.1	0.30	7.7	41	50	2010	0.06
JUL 11...	6.6	3.7	0.20	6.6	45	47	2270	0.06
SEP 05...	7.7	4.2	0.10	3.0	42	44	2760	0.06

APALACHICOLA RIVER BASIN

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	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, NITRITE 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)
NOV 05...	0.020	0.200	0.200	0.050	0.020	0.030	0.35	0.40	0.040	0.010	0.020
JAN 31...	0.030	0.500	0.500	0.050	0.030	0.040	0.45	0.50	0.080	0.020	0.010
APR 26...	<0.010	0.260	0.270	0.050	<0.010	0.040	0.35	0.40	0.030	0.010	<0.010
MAY 23...	<0.010	0.360	0.380	0.070	0.020	0.050	0.23	0.30	0.030	0.030	0.020
JUL 11...	0.020	0.200	0.210	0.040	<0.010	0.040	0.76	0.80	0.030	<0.010	<0.010
SEP 05...	<0.010	0.080	0.089	0.020	<0.010	0.020	0.38	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 05...	<10	<1	18	<0.5	<1.0	2	<3	1	17	<1
JAN 31...	70	<1	15	<0.5	<1.0	1	<3	1	79	<1
MAY 23...	10	<1	15	<0.5	<1.0	1	<3	4	76	<1
SEP 05...	<10	<1	15	<0.5	<1.0	<1	<3	<1	20	<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 05...	<4	6	<0.1	<10	<1	<1	<1.0	37	<6	3
JAN 31...	<4	--	<0.1	<10	1	<1	<1.0	25	<6	<3
MAY 23...	<4	3	<0.1	<10	2	<1	<1.0	31	<6	11
SEP 05...	<4	3	<0.1	<10	<1	<1	<1.0	33	<6	3

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 05...	1135	3800	19.5	11	113	80
JAN 31...	0805	32900	12.0	89	7910	82
APR 26...	0835	11400	21.0	10	308	83
MAY 23...	1235	18200	24.0	11	541	85
JUL 11...	1135	18700	28.0	8	404	86
SEP 05...	1535	24300	28.0	6	394	100

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 Gage Height, 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 (see "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400, 02339400, 02341000, 02343240), and by George W. Andrews Reservoir.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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...	1330	--	110	109	7.4	7.3	24.0	27.0	8.2	99
NOV 14...	1350	49.20	105	103	7.2	7.4	18.0	21.0	9.2	97
DEC 19...	1350	49.24	120	114	6.9	7.1	14.0	18.0	11.0	108
JAN 29...	1425	51.21	62	100	6.6	7.1	11.0	16.0	11.8	109
FEB 20...	1325	52.23	108	104	7.4	7.2	14.0	27.0	12.2	119
MAR 25...	1355	54.18	130	96	7.6	7.1	20.0	28.0	10.1	112
APR 17...	1325	55.21	95	94	6.8	7.2	22.0	26.0	8.9	103
MAY 21...	1240	55.64	85	83	6.9	7.0	23.0	23.5	8.9	105
JUN 19...	1240	57.09	90	90	7.1	7.0	27.0	31.0	8.0	102
JUL 25...	1300	59.15	82	82	6.9	7.1	28.5	29.5	8.4	110
AUG 22...	1315	58.79	96	95	7.0	7.1	29.5	30.0	7.9	105
SEP 19...	1305	48.41	92	89	7.1	7.2	29.0	31.5	7.6	100

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 17...	20	13	16	1.9	230	28	19
NOV 14...	25	6.0	6	1.6	130	26	9
DEC 19...	20	8.0	11	--	30	28	7
JAN 29...	30	15	13	1.2	1200	22	13
FEB 20...	50	10	8	2.1	35	26	12
MAR 25...	30	11	10	0.4	50	30	10
APR 17...	40	33	29	2.4	1300	23	99
MAY 21...	30	18	12	--	210	21	21
JUN 19...	40	8.0	14	2.0	80	27	9
JUL 25...	25	5.0	--	1.1	20	22	7
AUG 22...	30	10	--	1.7	110	25	9
SEP 19...	10	4.0	--	1.2	80	24	4

APALACHICOLA RIVER BASIN

02344040 CHATTAHOOCHEE RIVER NEAR STEAM MILL, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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...	0.120	<0.030	--	0.20	0.32	0.080	4.4
NOV 14...	0.210	<0.030	--	0.30	0.51	0.080	9.4
DEC 19...	0.310	0.050	0.15	0.20	0.51	0.080	5.6
JAN 29...	0.540	0.050	0.35	0.40	0.94	0.070	5.2
FEB 20...	0.680	<0.030	--	0.20	0.88	0.050	5.8
MAR 25...	0.540	<0.030	--	0.10	0.64	0.040	20
APR 17...	0.460	0.110	0.29	0.40	0.86	0.120	6.2
MAY 21...	0.450	0.050	0.15	0.20	0.65	0.090	3.6
JUN 19...	0.400	0.040	0.46	0.50	0.90	0.130	4.5
JUL 25...	0.020	<0.030	--	--	--	<0.030	5.4
AUG 22...	0.860	<0.030	--	--	--	0.040	7.3
SEP 19...	0.160	0.080	--	--	--	<0.020	4.3

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 1990 TO SEPTEMBER 1991

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...	0730	8.0	150	145	7.4	7.3	20.0	19.0	6.1	69
NOV										
06...	1040	26	--	164	7.5	7.2	13.5	19.5	6.4	--
DEC										
05...	0800	23	85	83	6.9	6.5	8.0	4.0	9.2	79
JAN										
09...	0845	20	102	98	7.0	6.6	9.0	6.0	8.0	70
FEB										
06...	0815	20	120	114	6.9	6.9	12.5	15.0	8.6	83
MAR										
06...	0815	23	98	93	7.0	6.9	12.0	14.0	8.6	83
APR										
03...	0810	33	110	105	6.9	7.0	15.0	17.0	7.5	76
MAY										
08...	0700	40	97	93	6.9	6.9	18.0	16.0	6.3	68
JUN										
05...	0645	36	110	99	6.9	7.0	23.0	22.5	5.3	64
JUL										
10...	0710	33	100	93	6.9	6.9	23.0	23.0	5.8	70
AUG										
07...	0730	23	112	110	7.1	6.4	25.5	25.5	5.2	65
SEP										
04...	0745	29	103	92	7.0	7.0	21.0	21.5	6.2	71

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)
OCT									
03...	7.0	0.4	490	42	6	0.120	<0.030	0.130	2.8
NOV									
06...	8.0	2.8	3300	43	5	0.160	0.030	0.050	5.5
DEC									
05...	37	2.1	1700	19	16	0.300	0.100	0.080	8.2
JAN									
09...	19	4.1	3300	27	9	0.460	0.070	0.090	7.7
FEB									
06...	11	0.6	170	31	28	0.510	0.090	0.080	2.3
MAR									
06...	16	0.7	490	27	7	0.430	0.140	0.120	6.1
APR									
03...	15	0.8	230	31	6	0.430	0.080	0.080	3.1
MAY									
08...	23	0.8	490	30	20	0.350	0.110	0.100	6.7
JUN									
05...	21	1.2	3300	32	12	0.440	0.090	0.080	4.0
JUL									
10...	18	0.2	790	30	12	0.340	0.060	0.080	4.4
AUG									
07...	12	0.5	490	23	7	0.370	0.070	0.070	4.4
SEP									
04...	12	0.6	490	30	7	0.240	<0.030	0.060	4.0

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 1990 TO SEPTEMBER 1991

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...	0800	14	143	138	7.5	7.2	20.0	20.0	5.7	64
NOV 06...	1110	25	--	145	--	6.9	13.0	19.0	4.9	--
DEC 05...	0830	120	73	72	6.6	6.3	8.0	3.0	6.9	59
JAN 09...	0900	52	110	106	7.1	6.7	9.0	6.0	7.6	67
FEB 06...	0830	27	107	102	6.8	7.0	12.0	15.0	6.8	65
MAR 06...	0845	52	85	81	7.0	6.8	12.0	15.0	8.8	85
APR 03...	0830	36	97	92	6.9	7.0	14.0	16.5	7.3	72
MAY 08...	0730	40	83	77	6.8	6.8	17.0	16.5	6.0	63
JUN 05...	0700	40	87	78	6.8	6.9	23.0	22.0	5.7	69
JUL 10...	0730	32	95	89	6.8	6.9	23.0	24.5	6.4	77
AUG 07...	0745	26	125	121	7.1	6.9	25.0	25.5	5.3	65
SEP 04...	0810	23	93	88	7.1	6.9	21.0	21.5	5.6	64

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...	13	0.3	340	40	16	0.100	0.060	0.150	1.3
NOV 06...	6.0	3.4	170	40	3	<0.020	<0.030	0.140	5.6
DEC 05...	64	3.1	4900	14	39	0.200	<0.030	0.150	11
JAN 09...	22	2.4	490	28	12	0.480	0.070	0.100	5.7
FEB 06...	15	0.8	70	28	9	0.420	0.050	0.100	2.2
MAR 06...	46	0.9	150	24	65	0.310	0.030	0.130	4.5
APR 03...	20	0.9	3300	27	11	0.330	0.060	0.130	3.4
MAY 08...	35	0.9	790	25	19	0.310	0.120	0.140	6.4
JUN 05...	40	1.1	3300	25	20	0.410	0.070	0.110	4.9
JUL 10...	25	0.6	220	29	14	0.320	0.050	0.090	4.7
AUG 07...	15	0.3	490	35	11	0.380	0.060	0.120	4.4
SEP 04...	24	0.5	230	26	14	0.260	<0.030	0.080	4.0

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.--Estimated daily discharges: June 15 to July 23. Records good, except those for the period of estimated daily discharges, which are fair. Discharge affected by diversion by the Clayton County Water Authority.

AVERAGE DISCHARGE.--6 years, 168 ft³/s, 17.55 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)
Jan. 31	1500	1,450	9.92	Mar. 30	1400	*2,780	*12.34
Mar. 3	0100	1,940	10.95	May 28	2400	1,450	9.92

Minimum daily discharge, 22 ft³/s, Oct. 2-4.

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	23	50	45	191	706	131	300	675	121	170	138	183
2	22	49	43	129	236	866	188	244	732	130	115	96
3	22	47	69	91	163	1440	153	147	687	110	104	115
4	22	46	370	83	138	623	132	163	169	400	87	83
5	37	45	759	80	123	414	128	1010	135	900	81	61
6	70	46	217	76	118	221	144	1010	106	800	85	51
7	35	60	102	79	119	197	135	702	84	400	99	47
8	27	52	96	96	111	200	143	248	73	250	74	46
9	24	53	99	147	99	156	210	205	65	250	69	48
10	23	124	75	120	92	133	153	362	61	210	94	47
11	80	422	62	170	87	117	148	325	57	280	171	37
12	342	194	57	626	82	109	120	280	54	200	123	43
13	479	94	56	358	81	133	164	413	53	150	148	37
14	257	69	53	151	108	326	197	341	69	110	143	34
15	80	53	52	116	153	194	138	166	80	90	283	33
16	54	52	52	130	97	125	107	127	90	120	331	36
17	46	51	59	165	83	111	95	109	150	300	132	37
18	43	49	62	101	101	118	88	228	200	500	99	35
19	103	48	79	119	114	144	206	464	300	800	105	47
20	97	45	120	357	158	115	535	394	600	400	133	41
21	52	45	150	371	478	101	248	167	500	240	91	51
22	46	45	255	157	447	96	129	119	210	200	74	48
23	199	46	127	115	1040	96	108	110	230	280	68	36
24	802	48	213	134	720	95	101	101	300	163	65	32
25	292	49	445	378	273	91	91	93	400	266	63	87
26	104	46	168	360	189	83	83	89	700	414	112	280
27	74	44	105	158	191	81	110	110	900	214	185	356
28	63	45	91	123	143	90	390	641	850	274	96	99
29	56	53	91	110	---	543	861	1020	700	178	76	63
30	52	56	84	258	---	2320	553	335	350	155	72	56
31	50	---	98	1160	---	1060	---	147	---	129	123	---
TOTAL	3676	2126	4354	6709	6450	10529	6158	10545	9026	9083	3639	2265
MEAN	119	70.9	140	216	230	340	205	340	301	293	117	75.5
MAX	802	422	759	1160	1040	2320	861	1020	900	900	331	356
MIN	22	44	43	76	81	81	83	89	53	90	63	32
CFSM	.92	.55	1.08	1.66	1.77	2.62	1.58	2.62	2.32	2.25	.90	.58
IN.	1.05	.61	1.25	1.92	1.85	3.01	1.76	3.02	2.58	2.60	1.04	.65
CAL YR 1990	TOTAL 79728		MEAN 218		MAX 5480		MIN 17		CFSM 1.68		IN 22.81	
WTR YR 1991	TOTAL 74560		MEAN 204		MAX 2320		MIN 22		CFSM 1.57		IN 21.34	

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 1990 TO SEPTEMBER 1991

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...	0830	33	110	98	6.9	7.2	20.0	20.0	6.8	76
NOV										
06...	1200	49	96	94	7.0	7.1	13.0	19.5	7.6	74
DEC										
05...	0900	--	65	64	6.7	6.3	9.0	2.5	6.7	59
05...	1345	760	63	61	--	6.3	9.0	11.0	7.2	63
JAN										
09...	0945	135	87	84	7.3	6.9	10.0	8.0	10.0	90
FEB										
06...	0905	115	77	74	6.7	6.9	11.5	15.0	9.4	88
MAR										
06...	0915	240	63	60	6.9	6.8	11.5	15.5	8.9	85
APR										
03...	0900	190	70	67	6.8	7.0	15.0	18.5	8.5	86
MAY										
08...	0800	410	63	58	6.7	6.8	18.0	18.5	6.5	70
JUN										
05...	0740	150	76	69	6.8	6.7	24.0	22.5	6.1	75
JUL										
10...	0800	210	74	67	6.9	6.9	24.0	25.0	6.2	76
AUG										
07...	0815	100	88	84	7.2	6.9	27.0	25.5	5.7	73
SEP										
04...	0840	74	85	81	7.1	7.1	22.0	23.0	6.5	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	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...	10	0.1	170	32	3	0.120	0.040	0.150	2.6
NOV									
06...	11	2.1	20	30	2	0.100	0.030	0.120	3.9
DEC									
05...	66	4.5	4900	14	26	0.170	<0.030	0.190	12
05...	62	4.2	24000	13	23	0.120	0.050	0.180	11
JAN									
09...	16	1.4	80	27	10	0.250	0.150	0.120	4.4
FEB									
06...	16	0.5	100	21	7	0.280	0.080	0.100	3.5
MAR									
06...	27	0.7	130	15	14	0.170	<0.030	0.090	4.6
APR									
03...	20	0.8	80	21	12	0.200	0.030	0.130	4.1
MAY									
08...	29	0.9	80	19	12	0.170	0.050	0.130	6.0
JUN									
05...	22	0.8	230	23	9	0.280	0.060	0.110	4.7
JUL									
10...	25	0.5	700	22	14	0.230	<0.030	0.120	8.8
AUG									
07...	15	0.3	330	30	7	0.280	0.040	0.170	3.7
SEP									
04...	18	0.3	110	27	11	0.240	<0.030	0.100	3.5

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 1990 TO SEPTEMBER 1991

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...	0900	28	104	98	7.5	7.2	21.0	25.0	6.1	70
NOV 06...	1230	44	94	92	7.0	7.0	13.5	20.0	6.5	64
DEC 05...	0930	250	79	76	--	6.4	9.0	3.0	8.4	74
JAN 09...	1015	140	83	80	7.3	6.9	10.0	9.0	10.0	90
FEB 06...	0945	180	73	68	6.6	6.9	11.5	15.0	9.2	86
MAR 06...	0945	510	58	56	6.9	6.8	11.0	16.0	8.6	81
APR 03...	0935	200	66	62	6.8	7.0	15.0	19.0	8.0	81
MAY 08...	0830	1400	58	52	6.8	6.7	18.0	21.0	6.2	67
JUN 05...	0800	380	74	66	6.8	6.9	24.0	24.0	5.5	67
JUL 10...	0830	480	70	65	6.9	7.0	24.0	27.0	6.6	81
AUG 07...	0845	95	87	83	7.1	6.8	26.5	28.5	5.3	67
SEP 04...	0905	55	78	60	7.1	7.0	22.5	26.0	6.0	71

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...	13	8	0.2	790	38	10
NOV 06...	11	14	1.8	170	30	4
DEC 05...	50	17	3.7	4900	19	28
JAN 09...	13	--	1.4	170	25	5
FEB 06...	15	--	0.5	490	18	5
MAR 06...	27	9	0.9	230	14	10
APR 03...	21	10	0.8	170	18	9
MAY 08...	34	15	0.9	140	16	9
JUN 05...	24	17	0.8	4900	23	10
JUL 10...	25	12	0.3	490	22	12
AUG 07...	15	19	0.5	490	31	12
SEP 04...	23	14	0.5	330	23	17

APALACHICOLA RIVER BASIN

02344400 FLINT RIVER ABOVE GRIFFIN, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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...	0.120	0.040	0.26	0.30	0.42	0.150	2.9
NOV							
06...	0.080	<0.030	--	0.30	0.38	0.110	4.8
DEC							
05...	0.180	<0.030	--	0.20	0.38	0.220	10
JAN							
09...	0.230	<0.030	--	--	--	0.120	4.4
FEB							
06...	0.250	0.050	--	--	--	0.130	2.4
MAR							
06...	0.140	<0.030	--	0.10	0.24	0.130	4.6
APR							
03...	0.180	0.060	0.04	0.10	0.28	0.120	3.9
MAY							
08...	0.140	0.050	0.35	0.40	0.54	0.120	6.5
JUN							
05...	E0.220	0.050	0.35	0.40	--	0.180	6.3
JUL							
10...	0.180	0.030	0.37	0.40	0.58	0.120	8.2
AUG							
07...	0.230	0.050	0.15	0.20	0.43	0.100	4.2
SEP							
04...	0.200	<0.030	--	0.30	0.50	0.120	4.1

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.--54 years, 346 ft³/s, 17.27 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)
Mar. 3	1000	2,110	10.85	Mar. 31	1700	*2,690	*11.52

Minimum daily discharge, 21 ft³/s, Oct. 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	53	66	185	1130	299	1830	1060	252	615	196	143
2	25	53	60	251	1310	1080	779	875	234	269	206	187
3	22	54	73	206	640	1460	338	539	517	195	175	127
4	21	56	190	161	320	1970	264	274	998	167	150	121
5	23	54	314	147	268	1270	271	460	386	776	128	98
6	28	51	568	144	243	802	313	1290	204	1240	116	85
7	65	51	502	146	231	459	281	1750	160	1130	116	80
8	45	59	220	166	222	391	267	1240	131	610	121	74
9	30	66	180	174	206	358	268	791	116	417	100	69
10	26	101	167	211	190	301	330	851	105	348	97	60
11	25	153	141	251	178	258	276	824	95	351	178	61
12	65	302	121	350	164	231	252	1180	87	415	217	55
13	227	268	111	533	156	242	266	861	84	298	179	51
14	347	126	108	589	177	289	291	666	80	211	252	48
15	319	93	106	280	200	400	295	551	98	158	301	45
16	117	67	104	292	227	328	229	329	108	130	336	44
17	71	63	104	284	182	244	185	252	127	201	365	43
18	60	65	107	275	169	234	165	249	228	457	196	51
19	58	69	129	263	179	232	273	302	281	748	150	56
20	90	56	153	429	210	241	414	533	513	1150	134	63
21	114	54	217	499	331	210	622	466	803	656	151	56
22	71	54	237	526	661	191	465	291	686	337	115	60
23	107	66	306	304	1360	186	247	211	317	294	97	57
24	188	65	259	284	1440	183	208	189	325	386	88	50
25	470	62	304	405	1330	174	183	172	384	229	91	127
26	498	63	434	486	704	161	163	159	635	444	116	222
27	157	62	286	531	372	154	204	174	981	607	139	293
28	98	57	188	314	327	155	413	342	1110	382	191	301
29	78	56	164	247	---	356	634	659	1050	420	124	132
30	65	57	157	434	---	1060	1080	1190	939	282	102	91
31	58	---	161	911	---	2320	---	784	---	242	108	---
TOTAL	3597	2456	6237	10278	13127	16239	11806	19514	12034	14165	5035	2950
MEAN	116	81.9	201	332	469	524	394	629	401	457	162	98.3
MAX	498	302	568	911	1440	2320	1830	1750	1110	1240	365	301
MIN	21	51	60	144	156	154	163	159	80	130	88	43
CFSM	.43	.30	.74	1.22	1.72	1.93	1.45	2.31	1.47	1.68	.60	.36
IN.	.49	.34	.85	1.41	1.80	2.22	1.61	2.67	1.65	1.94	.69	.40

CAL YR 1990	TOTAL 139453	MEAN 382	MAX 11000	MIN 10	CFSM 1.40	IN. 19.07
WTR YR 1991	TOTAL 117438	MEAN 322	MAX 2320	MIN 21	CFSM 1.18	IN. 16.06

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. Datum of gage is 729.47 ft above National Geodetic Vertical Datum of 1929 (leveling by global positioning system equipment).

REMARKS.—Estimated daily discharges: Dec. 17 to Jan. 2. Records good, except those for the period of Dec. 17 to Mar. 1, 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.—27 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)
Mar. 3	0500	1,140	8.67	Mar. 30	1800	*1,680	*9.67

Minimum daily discharge, 4.7 ft³/s, Oct. 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	34	34	120	517	113	342	440	102	94	205	35
2	6.0	32	34	80	247	615	201	249	179	73	125	34
3	4.8	32	63	69	155	1020	149	162	281	62	91	31
4	4.7	30	278	65	121	649	123	159	140	54	71	28
5	5.7	30	282	61	96	444	119	307	167	406	58	26
6	7.8	34	125	58	83	269	121	584	134	292	50	24
7	12	36	83	61	79	231	107	655	88	140	51	24
8	13	35	80	71	72	238	100	317	70	102	51	23
9	10	41	69	67	63	181	98	248	60	112	43	22
10	37	133	58	63	56	142	111	367	54	78	59	21
11	269	160	51	119	52	120	97	371	50	70	234	18
12	167	95	47	216	48	109	95	299	47	64	199	15
13	187	66	45	180	46	132	145	216	45	57	150	13
14	99	54	44	117	64	189	147	166	44	67	98	13
15	56	47	43	93	74	155	114	137	46	65	141	12
16	38	44	44	112	62	116	95	115	49	51	147	12
17	30	42	50	107	54	102	80	101	57	141	90	13
18	33	40	60	86	59	110	72	132	60	393	67	13
19	56	38	90	115	63	112	211	114	86	343	63	14
20	50	37	100	264	110	99	343	93	288	188	60	14
21	35	37	120	225	337	89	204	84	114	118	49	16
22	30	37	110	140	331	84	124	82	94	85	41	16
23	138	39	120	105	547	83	103	82	111	68	37	14
24	234	40	150	126	490	79	94	78	135	56	36	15
25	120	39	110	222	293	73	81	72	268	56	34	65
26	70	39	90	194	193	68	76	68	303	121	46	121
27	52	37	80	135	146	67	160	92	520	156	58	81
28	44	37	70	110	117	67	298	313	302	185	50	40
29	40	37	80	98	—	222	398	516	164	116	42	27
30	37	35	100	220	—	1290	425	264	124	253	38	21
31	35	—	140	608	—	890	—	136	—	236	36	—
TOTAL	1928.6	1437	2850	4307	4575	8158	4833	7019	4182	4302	2520	821
MEAN	62.2	47.9	91.9	139	163	263	161	226	139	139	81.3	27.4
MAX	269	160	282	608	547	1290	425	655	520	406	234	121
MIN	4.7	30	34	58	46	67	72	68	44	51	34	12
CFSM	.62	.47	.91	1.38	1.62	2.61	1.60	2.24	1.38	1.37	.80	.27
IN.	.71	.53	1.05	1.59	1.69	3.00	1.78	2.59	1.54	1.58	.93	.30

CAL YR 1990	TOTAL 61716.8	MEAN 169	MAX 4940	MIN 3.8	CFSM 1.67	IN. 22.73
WTR YR 1991	TOTAL 46932.6	MEAN 129	MAX 1290	MIN 4.7	CFSM 1.27	IN. 17.29

APALACHICOLA RIVER BASIN

02344752 LINE CREEK AT DIGBEY, GA.

LOCATION.--Lat 33°15'23", long 84°29'50", Coweta-Fayette County line, Hydrologic Unit 03130005, at State Highway 16, 2.2 miles downstream from Whitewater Creek, 1.6 miles upstream from Dead Oak Creek, at Digbey.

DRAINAGE AREA.--216 mi².

PERIOD OF RECORD.--August 1991 to September 1991.

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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)
AUG 07...	0930	100	81	81	7.2	6.9	26.0	29.0	6.1	77

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)
AUG 07...	13	0.2	140	23	0.310	<0.030	0.140	3.7

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: Oct. 1-18 and June 30 to July 31. Records good, except those for the periods of estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--25 years, 1,554 ft³/s, 17.30 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)
May 11	1300	*9,000	*12.04	No other peak greater than base discharge.			

Minimum daily discharge, 115 ft³/s, Oct. 2-4.

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	120	325	342	786	4420	1500	5770	3670	2140	2000	1300	566
2	115	311	341	900	4010	5430	4990	3490	1440	1450	1070	643
3	115	301	372	909	3310	6600	2460	2670	1430	950	871	608
4	115	297	689	831	2010	6440	1530	1830	1870	800	726	523
5	120	295	1240	758	1460	5960	2810	1580	2100	2000	612	474
6	135	293	1350	708	1310	4480	3650	2650	1530	3500	541	446
7	165	289	1290	713	1210	2820	2680	3820	1190	3850	488	430
8	145	293	1040	814	1150	2000	2410	4550	908	2800	462	429
9	130	340	793	845	1070	1780	1900	3910	776	1800	452	396
10	150	432	687	816	1000	1560	1900	5500	695	1400	458	380
11	150	525	616	931	943	1340	1760	8550	632	1250	858	361
12	275	681	568	1340	899	1210	1520	8100	586	1150	1760	345
13	590	724	534	1570	876	1200	1400	5610	560	1200	1690	329
14	680	598	511	1600	894	1300	1490	3430	545	1000	2510	311
15	730	452	500	1420	931	1370	1480	2470	546	850	2750	299
16	520	391	500	1320	939	1410	1310	1960	576	850	2020	289
17	420	361	498	1280	916	1210	1120	1520	586	1250	1510	276
18	375	343	507	1150	880	1140	988	1350	608	1950	1210	272
19	325	340	597	1190	885	1140	1290	1490	915	2100	911	280
20	317	342	720	1860	939	1090	2140	1600	1480	2350	778	331
21	348	324	810	2110	1220	1030	2350	1570	2160	2350	676	337
22	393	320	883	1940	1870	972	2110	1440	2110	1700	626	305
23	438	323	916	1540	3670	941	1520	1240	1580	1150	557	292
24	664	329	1020	1360	4470	917	1240	1110	1300	1000	525	293
25	926	336	1070	1850	4320	890	1090	1030	1570	1000	535	708
26	1010	341	1160	1970	3480	847	1010	989	2080	900	568	1150
27	829	340	1110	1830	2130	813	1520	1170	2300	1200	613	1050
28	502	345	880	1590	1520	816	2550	2330	2340	1350	635	844
29	399	344	754	1290	---	2550	2970	2980	2700	1700	647	662
30	355	340	701	2970	---	4850	3430	3290	2600	1300	562	461
31	339	---	716	4640	---	5110	---	3160	---	1250	526	---
TOTAL	11895	11275	23715	44831	52732	70716	64388	90059	41853	49400	29447	14090
MEAN	384	376	765	1446	1883	2281	2146	2905	1395	1594	950	470
MAX	1010	724	1350	4640	4470	6600	5770	8550	2700	3850	2750	1150
MIN	115	289	341	708	876	813	988	989	545	800	452	272
CFSM	.32	.31	.63	1.19	1.54	1.87	1.76	2.38	1.14	1.31	.78	.39
IN.	.36	.34	.72	1.37	1.61	2.16	1.96	2.75	1.28	1.51	.90	.43
CAL YR 1990	TOTAL 584209	MEAN 1601		MAX 28200	MIN 115	CFSM 1.31	IN 17.81					
WTR YR 1991	TOTAL 504401	MEAN 1382		MAX 8550	MIN 115	CFSM 1.13	IN 15.38					

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.--68 years (water years 1912-22, 1929-31, 1938-91), 2,336 ft³/s, 17.15 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)
Jan. 30	2300	*17,100	*17.42	Mar. 30	0400	14,000	15.32
Mar. 2	1300	15,300	16.27	Apr. 6	0300	11,500	13.47

Minimum discharge, 169 ft³/s Oct. 4, gage height, 1.17 ft.

APALACHICOLA RIVER BASIN

02347500 FLINT RIVER NEAR CULLODEN, GA.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180	401	477	935	7540	2040	7080	4610	2910	2440	1720	761
2	179	386	478	1110	5640	12600	6430	4320	2790	1920	1530	808
3	175	373	495	1190	4760	12900	4060	3500	2490	1360	1280	829
4	173	364	701	1110	3420	10700	2450	2540	2220	1120	1080	760
5	177	364	1320	983	2420	8330	4190	2460	2430	2700	949	675
6	188	362	1530	911	2130	6450	8820	3020	2170	4370	846	640
7	184	362	1560	890	2030	4460	5130	4200	1680	4850	770	600
8	176	359	1410	991	1840	3240	5830	4890	1310	3710	709	610
9	177	397	1050	1060	1670	2730	4020	4540	1110	2470	671	595
10	217	624	887	1030	1520	2410	3470	5460	997	1890	683	556
11	218	703	796	1120	1400	2090	3130	8730	923	1630	1250	527
12	362	845	735	1550	1300	1870	2650	9040	869	1440	2780	499
13	671	920	681	1980	1230	1800	2330	6990	831	1460	2330	479
14	736	881	646	2030	1230	1900	2260	4570	800	1290	3070	457
15	870	696	632	1890	1250	1890	2210	3240	796	1180	5090	433
16	772	578	621	2300	1240	1900	2030	2590	881	1220	3240	417
17	564	528	619	2170	1210	1780	1770	2060	925	1880	2280	409
18	466	491	621	1820	1190	1670	1560	1720	876	2910	1820	396
19	421	472	739	1710	1160	1640	1590	1760	1050	2830	1420	408
20	350	475	918	2730	1170	1550	2750	1850	1520	2850	1150	527
21	354	471	1190	2970	1520	1480	2980	1890	2090	2760	995	552
22	408	450	1150	2680	2080	1420	2750	1790	2350	2270	905	478
23	621	453	1150	2260	4540	1350	2200	1640	1950	1560	836	434
24	699	459	1330	2050	5610	1300	1790	1470	1610	1250	785	423
25	953	467	1400	3030	5270	1240	1580	1370	1740	1210	859	603
26	1110	472	1400	3010	4540	1180	1440	1290	2260	1130	968	1530
27	1050	480	1400	2650	3220	1140	1740	1480	3330	1310	968	1480
28	745	488	1190	2360	2270	1120	3450	3820	3960	1560	944	1160
29	530	488	969	1990	---	3530	4140	4060	3910	2230	929	959
30	455	478	890	8170	---	11900	4620	3750	3210	1790	862	730
31	417	---	879	13200	---	8170	---	3610	---	1790	780	---
TOTAL	14598	15287	29864	73880	74400	117780	100450	108260	55988	64380	44499	19735
MEAN	471	510	963	2383	2657	3799	3348	3492	1866	2077	1435	658
MAX	1110	920	1560	13200	7540	12900	8820	9040	3960	4850	5090	1530
MIN	173	359	477	890	1160	1120	1440	1290	796	1120	671	396
CFSM	.25	.28	.52	1.29	1.44	2.05	1.81	1.89	1.01	1.12	.78	.36
IN.	.29	.31	.60	1.49	1.50	2.37	2.02	2.18	1.13	1.29	.89	.40
CAL YR 1990	TOTAL 870529		MEAN 2385		MAX 64500		MIN 168		CFSM 1.29 IN. 17.50			
WTR YR 1991	TOTAL 719121		MEAN 1970		MAX 13200		MIN 173		CFSM 1.06 IN. 14.46			

APALACHICOLA RIVER BASIN

02347500 FLINT RIVER NEAR CULLODEN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to June 1979, July 1990 to current year.

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°C May 18, 19, 23, 1962; minimum, 0.0°C Jan. 10, 1962.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 15...	1350	676	88	93	7.0	7.2	12.5	20.0	10.2	96
JAN 30...	1455	13500	43	46	6.9	6.5	10.0	15.0	--	--
MAR 20...	1500	1540	57	60	7.2	7.2	15.5	26.0	9.7	99
MAY 22...	1255	1770	63	67	7.2	6.9	25.0	21.0	9.0	111
JUL 23...	0835	1600	57	56	6.9	7.3	27.0	27.0	7.3	93
SEP 24...	0755	422	95	95	7.3	7.0	22.0	19.0	7.2	84

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 15...	9.0	1.2	50	25	0.090	0.090	0.100	5.4
JAN 30...	280	2.8	3300	9	0.190	0.070	0.260	17
MAR 20...	11	1.1	40	17	0.180	<0.030	0.070	4.0
MAY 22...	13	0.8	790	22	0.240	0.030	0.100	3.8
JUL 23...	18	0.1	130	17	0.200	0.070	0.140	5.7
SEP 24...	5.0	0.5	<20	35	0.170	<0.030	0.080	3.7

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.--69 years (water years 1905-12, 1931-91), 3,507 ft³/s, 16.42 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)
Feb. 3	1200	16,200	15.02	Apr. 2	1700	13,700	13.89
Mar. 6	0800	*18,000	15.84				

Minimum discharge, 608 ft³/s, Oct. 1.

APALACHICOLA RIVER BASIN

02349500 FLINT RIVER AT MONTEZUMA, GA.—Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	617	970	1010	1630	10700	3830	10200	5590	4350	4270	2960	1630
2	629	920	995	1730	13100	5680	13300	5850	4040	3510	2910	1520
3	630	894	1010	1820	15900	9080	12700	5710	3830	2880	2710	1480
4	631	881	1090	1900	13800	12100	10500	5080	3570	2380	2450	1490
5	633	883	1180	1880	9920	16100	7690	4100	3170	2030	2180	1450
6	638	871	1480	1790	5990	17700	5020	3590	3110	2550	1940	1380
7	632	868	1890	1690	4390	15900	6310	3670	3060	4120	1770	1310
8	628	868	2030	1730	4230	12800	7610	4400	2630	4930	1680	1280
9	625	901	2030	1780	3810	9580	8110	5520	2260	4980	1580	1240
10	628	1100	1880	1810	3350	6060	8110	8690	1980	3880	1490	1230
11	646	1180	1670	1930	2970	4430	7370	8050	1830	2980	1470	1200
12	697	1320	1520	2070	2720	3820	6000	7550	1760	2570	1930	1170
13	732	1340	1410	2370	2540	3550	4780	7910	1670	2270	3010	1130
14	802	1400	1340	2670	2440	3610	3990	8520	1580	2180	3540	1100
15	950	1410	1290	2660	2370	3550	3690	9100	1510	2110	4060	1080
16	1060	1330	1250	2720	2310	3350	3730	8330	1490	2360	5280	1050
17	1110	1190	1250	3070	2260	3310	3540	5330	1570	2960	5310	1060
18	1070	1100	1250	3150	2220	3270	3150	3680	1650	3580	3920	1050
19	981	1040	1290	2780	2190	3130	2840	3130	1620	4770	3050	1010
20	930	1000	1450	2550	2160	3000	2740	2880	1620	5290	2620	1020
21	887	986	1750	3100	2160	2830	3290	2890	1990	5060	2250	1080
22	880	987	1930	3500	2350	2690	3740	2910	2470	4320	1990	1130
23	1170	987	1970	3310	2980	2590	3720	2880	2800	3600	1800	1130
24	1290	982	1990	3080	4470	2480	3380	2760	2690	2900	1680	1070
25	1290	991	2040	3320	5820	2390	2920	2570	2410	2420	1720	1050
26	1340	990	2100	4070	6330	2290	2640	2440	2520	2200	1780	1060
27	1480	1010	2040	4220	6220	2200	2550	2560	3020	2100	2330	1500
28	1540	1010	2010	3770	5300	2130	2690	2790	3650	2050	2220	1900
29	1420	1020	1920	3330	---	2260	3780	3780	4230	2290	1930	1790
30	1210	1020	1760	4720	---	5130	4970	4690	4460	3060	1830	1590
31	1050	---	1650	9350	---	7730	---	4570	---	3330	1750	---
TOTAL	28826	31449	49475	89500	145000	178570	165060	151520	78540	99930	77140	38180
MEAN	930	1048	1596	2887	5179	5760	5502	4888	2618	3224	2488	1273
MAX	1540	1410	2100	9350	15900	17700	13300	9100	4460	5290	5310	1900
MIN	617	868	995	1630	2160	2130	2550	2440	1490	2030	1470	1010
CFSM	.32	.36	.55	1.00	1.79	1.99	1.90	1.69	.90	1.11	.86	.44
IN.	.37	.40	.63	1.15	1.86	2.29	2.12	1.94	1.01	1.28	.99	.49
CAL YR 1990	TOTAL 1250310	MEAN 3426	MAX 62300	MIN 611	CFSM 1.18	IN. 16.04						
WTR YR 1991	TOTAL 1133190	MEAN 3105	MAX 17700	MIN 617	CFSM 1.07	IN. 14.54						

APALACHICOLA RIVER BASIN

02349500 FLINT RIVER AT MONTEZUMA, GA.—Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.43	1.28	1.36	2.48	12.40	5.99	12.04	7.99	6.62	6.52	4.69	2.47
2	.46	1.17	1.33	2.65	13.62	8.04	13.71	8.26	6.23	5.50	4.63	2.27
3	.46	1.12	1.36	2.83	14.89	11.23	13.46	8.11	5.95	4.57	4.30	2.20
4	.47	1.09	1.53	3.01	13.96	13.14	12.26	7.44	5.59	3.76	3.88	2.21
5	.47	1.09	1.69	2.97	11.83	14.97	10.01	6.32	5.02	3.18	3.43	2.14
6	.49	1.07	2.23	2.76	8.36	15.74	7.38	5.69	4.92	4.01	3.02	1.99
7	.47	1.06	2.98	2.59	6.67	14.88	8.72	5.80	4.85	6.32	2.74	1.86
8	.46	1.06	3.27	2.64	6.48	13.47	9.96	6.68	4.17	7.29	2.58	1.79
9	.45	1.13	3.29	2.76	5.97	11.60	10.43	7.89	3.55	7.34	2.38	1.71
10	.46	1.54	2.96	2.84	5.38	8.44	10.42	10.93	3.10	6.00	2.21	1.68
11	.51	1.71	2.56	3.11	4.87	6.72	9.74	10.36	2.84	4.73	2.17	1.62
12	.65	1.95	2.30	3.39	4.51	5.98	8.40	9.90	2.72	4.08	3.00	1.55
13	.75	1.99	2.12	3.96	4.24	5.64	7.11	10.24	2.54	3.58	4.75	1.48
14	.93	2.10	1.99	4.44	4.09	5.72	6.19	10.79	2.37	3.43	5.55	1.40
15	1.30	2.12	1.90	4.42	3.97	5.64	5.82	11.29	2.24	3.32	6.24	1.35
16	1.56	1.97	1.83	4.51	3.89	5.38	5.87	10.62	2.21	3.72	7.66	1.29
17	1.68	1.72	1.82	5.01	3.81	5.33	5.63	7.68	2.37	4.70	7.69	1.31
18	1.59	1.53	1.82	5.11	3.74	5.27	5.11	5.74	2.51	5.59	6.06	1.28
19	1.38	1.42	1.90	4.59	3.70	5.09	4.68	4.95	2.46	7.10	4.83	1.19
20	1.26	1.35	2.18	4.26	3.65	4.91	4.53	4.58	2.45	7.68	4.15	1.22
21	1.15	1.31	2.70	5.04	3.64	4.67	5.30	4.58	3.11	7.43	3.55	1.35
22	1.13	1.31	3.07	5.57	3.95	4.46	5.89	4.62	3.91	6.58	3.11	1.46
23	1.77	1.31	3.15	5.33	4.87	4.31	5.86	4.57	4.45	5.63	2.79	1.46
24	2.01	1.30	3.19	5.02	6.74	4.15	5.42	4.39	4.28	4.60	2.57	1.34
25	1.97	1.32	3.31	5.34	8.22	4.01	4.80	4.08	3.81	3.82	2.65	1.30
26	2.04	1.32	3.43	6.29	8.74	3.85	4.39	3.86	4.00	3.45	2.75	1.32
27	2.26	1.35	3.30	6.46	8.63	3.72	4.25	4.06	4.78	3.29	3.68	2.25
28	2.34	1.37	3.24	5.92	7.68	3.60	4.46	4.42	5.70	3.22	3.49	3.04
29	2.13	1.39	3.05	5.36	—	3.80	5.92	5.86	6.48	3.60	3.01	2.84
30	1.74	1.37	2.71	6.96	—	7.43	7.33	7.02	6.75	4.84	2.83	2.49
31	1.45	—	2.51	11.43	—	10.07	—	6.88	—	5.24	2.69	—
MEAN	1.17	1.43	2.45	4.49	6.88	7.33	7.50	6.95	4.07	4.97	3.84	1.76
MAX	2.34	2.12	3.43	11.43	14.89	15.74	13.71	11.29	6.75	7.68	7.69	3.04
MIN	.43	1.06	1.33	2.48	3.64	3.60	4.25	3.86	2.21	3.18	2.17	1.19
CAL YR 1990	MEAN 4.11		MAX 25.67		MIN .41							
WTR YR 1991	MEAN 4.39		MAX 15.74		MIN .43							

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 1990 TO SEPTEMBER 1991

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...	1015	1080	63	59	7.1	7.1	22.0	24.0	8.3	97
NOV 19...	1300	1040	63	61	7.2	7.0	12.0	18.5	10.2	96
DEC 20...	1155	1440	55	43	6.9	6.9	13.0	14.0	9.8	94
JAN 31...	1055	9400	65	37	6.4	6.2	11.0	8.0	--	--
FEB 21...	1150	2150	48	55	7.2	6.7	14.5	21.0	10.1	100
MAR 21...	1005	2850	46	46	7.1	6.7	15.0	16.5	9.2	92
APR 18...	1055	3170	48	48	7.0	6.8	22.0	23.5	7.4	87
MAY 23...	0955	2890	49	48	6.9	6.8	24.0	23.0	7.9	95
JUN 20...	0910	1580	51	47	7.0	6.9	27.0	27.0	7.0	89
JUL 23...	1015	3640	48	47	6.7	6.8	27.0	30.0	7.3	93
AUG 20...	1200	2610	47	47	7.0	6.7	26.0	28.0	6.7	84
SEP 24...	0945	1070	56	55	7.1	6.8	22.0	22.0	8.0	93

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- LINIT- 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...	50	10	0.7	790	17	14	0.190	0.040	0.110	3.1
NOV 19...	30	7.0	0.5	50	15	10	0.170	<0.030	0.100	3.6
DEC 20...	30	9.0	0.1	230	14	10	0.300	0.100	0.090	3.0
JAN 31...	100	70	1.2	700	5	80	0.240	0.040	0.160	12
FEB 21...	45	13	0.5	<20	12	26	0.280	<0.030	0.080	4.0
MAR 21...	40	16	0.1	20	12	18	0.210	<0.030	0.050	3.7
APR 18...	80	20	0.9	80	13	28	0.230	0.050	0.120	5.8
MAY 23...	55	20	0.3	50	15	24	0.250	0.050	0.070	4.1
JUN 20...	--	16	0.8	--	16	20	0.230	<0.030	0.080	2.3
JUL 23...	110	25	0.1	80	14	50	0.210	0.090	0.120	7.6
AUG 20...	60	20	0.6	140	13	37	0.230	<0.030	0.080	4.2
SEP 24...	20	8.0	0.4	1100	18	10	0.270	<0.030	0.070	3.0

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.

REVISED RECORDS.—WDR GA-90-1: 1967-69.

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.—33 years, 44.8 ft³/s, 13.52 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. 31	0700	727	10.26	June 3	2200	435	9.48
Mar. 3	2100	*1,390	*11.31	July 7	1500	429	9.46

Minimum discharge, 2.7 ft³/s, Oct. 2-3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.6	5.1	8.0	303	39	56	121	21	15	124	11
2	2.8	3.5	5.0	14	164	769	43	74	30	12	97	9.5
3	2.8	3.6	6.1	10	121	1110	37	52	258	10	58	8.8
4	3.2	4.1	9.7	8.8	101	759	33	41	221	9.7	58	8.2
5	4.1	3.8	6.4	7.8	88	320	31	74	68	9.2	59	7.8
6	3.5	4.1	5.5	7.3	79	206	31	217	45	15	34	7.3
7	3.5	4.2	6.3	8.5	83	164	30	165	34	286	26	6.9
8	3.4	4.1	9.3	9.4	92	124	44	89	25	146	21	6.7
9	3.5	6.2	6.8	7.9	74	103	43	87	21	121	17	6.5
10	3.9	10	5.6	7.7	63	89	55	191	18	54	15	6.3
11	4.6	6.3	5.0	15	57	77	51	154	16	69	16	6.2
12	5.8	5.0	4.8	16	51	72	35	184	15	37	16	6.0
13	4.8	4.6	4.6	13	48	75	31	166	14	25	15	5.9
14	4.2	4.4	4.7	11	50	86	30	161	13	20	27	5.7
15	3.9	4.2	4.5	12	45	70	41	96	17	20	111	5.6
16	3.8	4.2	4.5	30	39	60	213	77	19	39	97	5.5
17	3.7	4.2	4.5	25	36	62	104	64	16	78	50	5.6
18	4.8	4.3	4.6	16	37	70	54	52	13	117	34	6.4
19	4.7	4.2	8.5	18	37	65	77	45	12	72	28	6.1
20	4.0	4.3	17	29	37	55	244	46	11	59	47	6.0
21	4.0	4.2	12	24	36	50	153	45	10	54	33	6.0
22	12	4.3	9.5	18	36	47	76	43	9.4	35	22	5.7
23	23	4.5	8.5	16	42	46	67	41	9.3	28	18	5.5
24	7.5	4.4	9.1	33	41	43	65	36	8.1	27	16	5.5
25	5.2	4.4	7.4	60	36	39	49	32	11	25	15	8.2
26	4.5	4.6	6.9	45	33	36	45	30	25	20	15	6.9
27	4.2	4.7	6.5	34	30	34	52	30	37	18	15	6.1
28	4.0	5.2	6.2	37	27	33	47	26	28	15	19	5.8
29	3.9	7.4	6.2	44	---	43	112	22	26	14	16	5.5
30	3.7	5.6	6.2	224	---	157	150	19	22	21	14	5.4
31	3.6	---	6.7	606	---	100	---	18	---	223	13	---
TOTAL	153.6	142.2	213.7	1415.4	1886	5003	2099	2498	1072.8	1693.9	1146	198.6
MEAN	4.95	4.74	6.89	45.7	67.4	161	70.0	80.6	35.8	54.6	37.0	6.62
MAX	23	10	17	606	303	1110	244	217	258	286	124	11
MIN	2.8	3.5	4.5	7.3	27	33	30	18	8.1	9.2	13	5.4
CFSM	.11	.11	.15	1.01	1.50	3.59	1.55	1.79	.79	1.21	.82	.15
IN.	.13	.12	.18	1.17	1.56	4.14	1.74	2.07	.89	1.40	.95	.16

CAL YR 1990	TOTAL 11226.6	MEAN 30.8	MAX 496	MIN 2.5	CFSM .68	IN. 9.28
WTR YR 1991	TOTAL 17522.2	MEAN 48.0	MAX 1110	MIN 2.8	CFSM 1.07	IN. 14.49

APALACHICOLA RIVER BASIN

02350001 FLINT RIVER NEAR VIENNA, GA.

LOCATION.--Lat 32°03'38", long 83°58'36", Dooly County, Hydrologic Unit 03130006, 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 Gage Height, 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 1990 TO SEPTEMBER 1991

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...	0930	4.69	102	99	7.1	7.1	22.5	22.0	7.0	82
NOV 19...	1345	4.81	132	129	7.2	7.1	12.0	18.5	9.6	90
DEC 20...	1335	6.31	138	127	6.9	7.0	13.0	14.0	9.8	94
JAN 31...	1245	8.17	73	67	6.3	6.5	11.5	11.0	--	--
FEB 21...	1100	7.35	94	94	7.1	6.8	14.5	21.0	9.8	97
MAR 21...	1055	7.56	68	65	7.0	6.8	15.0	20.0	8.7	87
APR 18...	1000	7.34	65	63	6.8	6.8	22.0	23.0	7.4	87
MAY 23...	1115	6.99	58	56	6.9	6.8	23.0	26.0	7.5	89
JUN 20...	0820	7.79	76	73	7.0	7.0	28.0	28.0	6.7	87
JUL 23...	1140	7.78	63	64	6.8	6.7	27.5	30.0	6.8	88
AUG 20...	1110	7.97	63	63	6.9	6.6	26.0	28.0	6.2	78
SEP 24...	1145	5.23	84	82	7.1	7.1	23.0	26.5	7.7	91

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 18...	60	10	0.5	50	21	0.270	<0.030	0.100	4.0
NOV 19...	40	8.0	0.7	<20	26	0.220	0.170	0.080	6.0
DEC 20...	50	12	0.7	130	22	0.290	0.060	0.110	7.1
JAN 31...	120	100	2.5	7000	10	0.470	0.110	0.190	12
FEB 21...	40	10	0.7	<20	19	0.370	<0.030	0.090	5.6
MAR 21...	50	14	0.1	<20	14	0.280	<0.030	0.060	4.2
APR 18...	120	28	0.9	110	14	0.270	0.060	0.130	6.0
MAY 23...	65	17	0.5	80	16	0.300	0.050	0.070	1.5
JUN 20...	--	14	0.7	40	21	0.300	0.040	0.060	4.2
JUL 23...	80	20	0.1	20	15	0.240	0.160	0.130	8.9
AUG 20...	90	19	0.7	130	14	0.260	<0.030	0.070	5.0
SEP 24...	60	13	0.7	80	23	0.300	0.040	0.040	4.7

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: Apr. 23-25. Records good, except those for the period Apr. 23-25 and Aug. 10 to Sept. 14, which are fair. 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.—33 years (water years 1930-58, 1988-91), 4,321 ft³/s, 15.12 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 30,400 ft³/s, Mar. 4, gage height, 19.86 ft; minimum daily discharge, 693 ft³/s, Oct. 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1430	1150	904	2340	14400	6870	7080	5810	5510	5680	5450	2710
2	926	1000	832	2660	16500	7890	11300	6890	5780	4010	5810	1680
3	1510	1310	881	2580	14500	20400	12400	7500	6190	4550	4280	3250
4	2590	1290	882	2590	15100	29700	13900	6940	6840	3160	4170	4320
5	830	905	876	3180	16500	27000	12300	6650	5420	2640	3120	4350
6	703	1460	885	1740	12600	20800	10500	5880	4100	2830	3140	4250
7	761	935	908	2370	8970	19400	6940	5950	4040	4040	3080	3080
8	707	1270	919	2220	7490	19300	5440	5930	3470	4590	2690	1770
9	693	1020	929	2730	5690	16500	9730	5890	2420	6880	2000	1520
10	705	1650	931	2540	5470	13100	10000	6770	2640	5850	1940	1760
11	718	1600	995	3070	5370	9020	7790	12300	2220	4110	2030	1400
12	1250	1160	1020	2410	4210	5250	8420	12600	2400	4270	1840	1750
13	831	1420	1020	2690	4200	5180	7340	13100	2290	3030	2550	2140
14	839	2470	1020	3620	4220	5860	6720	12400	1590	1910	4560	1260
15	1050	1260	1020	3340	4200	5700	4200	11000	1080	3260	5920	889
16	1390	1440	1030	3830	2840	4370	4240	10500	1670	4070	6260	1700
17	1260	1630	1010	4690	2010	4660	5740	9580	2310	6210	6390	1740
18	1230	1760	1480	4700	3330	4760	5670	8160	1290	8480	7230	1320
19	1200	1730	1920	5710	2720	4980	4490	5040	2240	6690	5660	1570
20	1540	1690	2010	5400	2860	5050	4820	3600	2150	8150	3860	1710
21	1040	1530	2790	5660	4140	4680	4130	4140	1760	7150	3780	1520
22	1010	975	1680	5680	2900	4620	4060	4120	2080	7120	2430	1500
23	2560	1330	1780	5210	3720	4350	4100	4080	3010	5360	3090	1480
24	1150	1100	3310	4800	3460	3420	4100	3550	2520	4810	2850	1490
25	1730	963	3050	5740	5300	2880	4100	2980	3140	3140	2630	1500
26	2110	1570	1770	4960	6330	3560	4130	2960	4050	3530	2350	1420
27	1240	995	2610	4770	7370	2380	4010	4000	4660	3260	3330	1750
28	1740	1270	2870	5050	7400	4100	2460	4530	5360	2660	3400	1690
29	1730	942	2210	5960	---	2840	4030	4980	5270	2250	3440	864
30	1720	1330	3180	7240	---	5000	4510	3510	5390	4100	3960	955
31	1640	---	1890	12500	---	5800	---	4710	---	4810	3360	---
TOTAL	39833	40155	48612	131980	193800	279420	198650	206050	102890	142600	116600	58338
MEAN	1285	1338	1568	4257	6921	9014	6622	6647	3430	4600	3761	1945
MAX	2590	2470	3310	12500	16500	29700	13900	13100	6840	8480	7230	4350
MIN	693	905	832	1740	2010	2380	2460	2960	1080	1910	1840	864
CFSM	.33	.34	.40	1.10	1.78	2.32	1.71	1.71	.88	1.19	.97	.50
IN.	.38	.38	.47	1.27	1.86	2.68	1.90	1.98	.99	1.37	1.12	.56

CAL YR 1990 TOTAL 1530936 MEAN 4194 MAX 48300 MIN 693 CFSM 1.08 IN. 14.68
WTR YR 1991 TOTAL 1558928 MEAN 4271 MAX 29700 MIN 693 CFSM 1.10 IN. 14.95

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 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 1990 TO SEPTEMBER 1991

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 15...	1120	73	33	33	6.7	6.4	19.0	12.0	10.0	108
JAN 30...	1235	599	36	30	6.6	5.9	12.0	15.5	--	--
MAR 20...	1255	270	32	33	7.0	6.5	14.5	24.5	8.4	84
MAY 22...	1055	272	37	35	6.7	6.4	21.0	26.0	7.5	86
JUL 23...	1250	122	35	37	6.6	6.5	26.0	31.5	7.3	92
SEP 24...	1325	68	34	34	6.9	6.7	22.0	30.0	7.9	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- 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 15...	60	7.0	0.8	60	6	0.110	<0.030	0.030	5.4
JAN 30...	50	15	0.9	700	3	0.050	0.050	0.050	9.9
MAR 20...	70	10	0.8	80	7	0.070	<0.030	0.020	6.2
MAY 22...	120	25	1.0	700	12	0.090	0.070	0.060	7.6
JUL 23...	110	17	0.1	50	9	0.160	0.160	0.090	8.0
SEP 24...	60	18	0.6	230	9	0.160	<0.030	0.030	5.0

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.--6 years (water years 1986-91), 457 ft³/s, 11.78 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,300 ft³/s, Mar. 20, 1990, gage height, 20.44 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)
Feb. 3	0900	3,700	14.25	May 14	1400	3,830	14.41
Mar. 5	1700	*5,510	*16.18	June 28	1300	2,000	10.93

Minimum discharge, 73 ft³/s, Oct. 1, 6-7, gage height, 2.68 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	121	173	253	1960	493	764	1000	847	858	841	327
2	80	122	167	363	2170	1320	917	1150	698	684	852	278
3	81	120	167	478	3460	2780	1290	1060	869	540	613	251
4	79	120	189	465	2520	4600	1060	989	830	441	483	234
5	77	120	226	445	1700	5380	657	713	739	419	430	221
6	73	121	232	401	1220	4370	573	1020	572	433	439	206
7	74	125	226	350	1060	2970	586	937	456	413	463	192
8	79	131	227	341	1040	2190	684	724	389	374	442	183
9	79	138	248	365	931	1660	714	738	338	385	433	184
10	78	164	255	376	871	1270	825	1190	301	424	395	194
11	80	222	241	425	798	1030	1020	1910	273	428	623	195
12	87	230	220	524	692	900	972	2110	255	352	551	178
13	95	216	205	569	627	845	863	2240	241	292	495	163
14	101	192	197	559	600	829	815	3460	229	252	573	154
15	102	174	194	541	586	821	629	2620	234	222	1190	150
16	98	165	193	598	557	815	546	1700	274	516	1420	152
17	92	160	193	713	518	862	493	1040	248	1220	961	143
18	88	158	195	689	498	956	475	848	258	1400	815	139
19	94	161	210	634	493	983	484	797	254	1330	610	153
20	102	162	287	707	496	913	488	800	251	1300	568	316
21	104	161	393	706	500	846	479	856	260	1240	528	254
22	114	163	404	608	527	771	438	974	317	799	461	238
23	132	165	364	526	588	697	475	971	273	521	377	224
24	168	166	342	500	674	653	567	784	240	459	326	198
25	169	169	363	716	737	615	548	651	256	421	307	183
26	157	169	376	779	773	578	507	592	893	418	353	198
27	140	169	353	747	703	549	546	630	1700	378	455	200
28	128	168	299	751	552	523	626	816	1970	367	428	213
29	123	173	264	764	---	533	725	938	1810	356	383	188
30	120	186	248	1140	---	652	824	1090	1400	448	400	166
31	121	---	243	1790	---	763	---	1100	---	819	385	---
TOTAL	3191	4811	7894	18823	27851	43167	20590	36448	17675	18509	17600	6075
MEAN	103	160	255	607	995	1392	686	1176	589	597	568	202
MAX	169	230	404	1790	3460	5380	1290	3460	1970	1400	1420	327
MIN	73	120	167	253	493	493	438	592	229	222	307	139
CFSM	.20	.30	.48	1.15	1.89	2.64	1.30	2.23	1.12	1.13	1.08	.38
IN.	.23	.34	.56	1.33	1.97	3.05	1.45	2.57	1.25	1.31	1.24	.43
CAL YR 1990	TOTAL 183131		MEAN 502		MAX 9230		MIN 67		CFSM .95		IN. 12.93	
WTR YR 1991	TOTAL 222634		MEAN 610		MAX 5380		MIN 73		CFSM 1.16		IN. 15.72	

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.--11 years (water years 1981-91), 346 ft³/s, 12.98 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)
Feb. 3	0800	2,060	11.40	June 28	0900	2,460	11.77
Mar. 4	1800	*5,270	*13.48	July 18	1800	1,640	10.91
May 14	1400	3,320	12.41				

Minimum discharge, 46 ft³/s Oct. 1, gage height, 2.69 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	114	154	185	1400	332	472	570	614	812	513	268
2	53	120	149	240	1600	765	532	689	501	536	636	233
3	56	123	139	268	1960	2390	552	715	496	445	604	213
4	55	131	149	304	1480	4820	500	617	564	383	462	195
5	56	136	160	309	1030	4420	352	441	457	421	390	181
6	55	143	174	280	775	3010	303	515	371	349	388	168
7	54	144	178	246	697	2080	299	878	309	313	427	156
8	59	124	181	225	670	1480	481	978	261	284	480	140
9	61	107	177	221	689	1090	530	755	225	272	615	126
10	59	114	185	225	662	874	497	740	192	248	726	117
11	60	133	189	280	617	736	536	1070	162	254	571	114
12	66	178	179	320	567	609	739	2620	148	244	424	112
13	75	194	165	328	470	523	758	2960	142	228	363	109
14	82	170	157	337	412	499	651	3150	143	207	429	106
15	86	143	153	343	376	488	521	2330	139	224	725	102
16	87	127	151	378	355	494	386	1520	178	444	796	108
17	85	123	151	359	342	548	358	1090	178	853	836	102
18	81	118	151	352	325	631	340	849	176	1590	789	100
19	80	114	163	404	311	643	356	727	238	1480	672	99
20	85	113	191	504	306	619	367	728	194	1210	565	141
21	90	113	222	461	306	587	417	653	164	942	513	169
22	93	112	258	408	309	536	386	526	153	680	426	152
23	99	113	284	374	338	463	400	472	153	466	380	142
24	131	115	296	363	353	413	443	443	153	356	301	131
25	163	116	263	389	363	383	420	416	217	316	276	134
26	170	118	242	405	389	360	413	394	557	302	268	138
27	148	119	240	450	415	340	418	456	1690	307	302	146
28	123	121	226	492	386	318	397	550	2340	270	378	147
29	110	126	196	529	---	317	413	573	1840	248	379	138
30	106	136	179	745	---	359	495	589	1300	286	348	125
31	109	---	174	1040	---	376	---	638	---	576	311	---
TOTAL	2686	3858	5876	11764	17903	31503	13732	29652	14255	15546	15293	4312
MEAN	86.6	129	190	379	639	1016	458	957	475	501	493	144
MAX	170	194	296	1040	1960	4820	758	3150	2340	1590	836	268
MIN	49	107	139	185	306	317	299	394	139	207	268	99
CFSM	.24	.36	.52	1.05	1.77	2.81	1.26	2.64	1.31	1.39	1.36	.40
IN.	.28	.40	.60	1.21	1.84	3.24	1.41	3.05	1.46	1.60	1.57	.44

CAL YR 1990	TOTAL 116613	MEAN 319	MAX 2740	MIN 30	CFSM .88	IN. 11.98
WTR YR 1991	TOTAL 166380	MEAN 456	MAX 4820	MIN 49	CFSM 1.26	IN. 17.10

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.—Estimated daily discharges: June 12. 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.—81 years (water years 1902-20, 1930-91), 6,175 ft³/s, 15.79 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)
Feb. 2	1500	21,500	16.24	May 13	1345	21,500	16.23
Mar. 5	1630	*40,900	*25.81				

Minimum daily discharge, 569 ft³/s, Oct. 13.

APALACHICOLA RIVER BASIN

02352500 FLINT RIVER AT ALBANY, GA.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1110	1530	1280	2660	20300	9080	8390	7770	8590	9940	9440	3500
2	1020	1250	1180	3190	20900	10200	12500	9810	8550	6430	9730	2840
3	1020	1370	1370	3130	20400	19800	15200	10800	8300	6810	7850	3470
4	3350	1680	1200	3260	20100	34400	15800	9940	9690	4780	6810	5370
5	1530	1250	1250	3730	21000	40400	14800	9530	8180	4740	4900	3970
6	830	1540	1380	2640	19200	35500	13400	8280	6040	4190	5080	5170
7	1350	1260	1300	2980	13700	29300	8540	8880	5530	6070	4930	3830
8	812	1460	1590	2280	11200	26600	6930	9200	5060	5380	4350	2180
9	771	1410	1340	3450	9410	23500	10900	9060	3030	8200	4290	1820
10	777	1720	1490	3220	8430	18900	12600	9870	4180	7700	3270	2470
11	778	1970	1430	4170	8070	13500	10200	16600	3780	5760	4160	2080
12	1050	1540	1590	3780	6830	8310	11300	18700	2150	5930	4200	2040
13	569	1710	1240	3040	5950	8040	9990	19900	3000	3940	4240	2180
14	960	2890	1650	3940	5970	7620	9220	20200	2700	3350	6040	2120
15	1250	1570	1180	4030	5850	8360	6130	18500	1850	4620	8010	1440
16	1520	1680	1580	4360	4600	6050	5570	17500	2530	6090	9320	1640
17	1410	1770	1340	5690	3550	7150	7070	15800	2790	12500	9510	2050
18	1420	2020	1710	5850	4020	7240	7170	11600	2710	16800	9530	1980
19	1500	2140	2280	7230	4460	7740	5170	7980	2760	13800	8740	1740
20	1600	1820	2300	7220	4020	8410	6850	4840	3010	14600	6060	2400
21	1270	1780	3290	8380	5560	6540	5460	6880	2720	11100	5390	2220
22	1480	1380	2300	8520	4410	6810	5660	6470	2840	12200	4070	2280
23	2590	1450	2120	7580	4750	7300	5920	6200	3810	7980	4150	2280
24	1520	1540	3590	6400	4910	5100	6430	6080	3440	6570	3810	1790
25	2030	1290	3670	7700	6240	4410	6540	4580	4610	5430	3950	2130
26	2280	1720	2410	8030	7920	4360	5960	5160	7830	6180	2910	1970
27	1580	1460	3140	6530	9660	4540	5650	5400	10100	4360	4090	2220
28	1980	1520	3370	6710	8700	4700	4030	6040	11500	4330	5410	2630
29	1940	965	2500	8160	---	4810	5380	7580	11700	4130	3810	1240
30	1960	1940	3560	10200	---	6300	6440	5400	10900	5680	4730	1310
31	1800	---	2250	15700	---	7830	---	7060	---	7070	4990	---
TOTAL	45057	48625	61880	173760	270110	392800	255200	311610	163880	226660	177770	74360
MEAN	1453	1621	1996	5605	9647	12670	8507	10050	5463	7312	5735	2479
MAX	3350	2890	3670	15700	21000	40400	15800	20200	11700	16800	9730	5370
MIN	569	965	1180	2280	3550	4360	4030	4580	1850	3350	2910	1240
CFSM	.27	.31	.38	1.06	1.82	2.39	1.60	1.89	1.03	1.38	1.08	.47
IN.	.32	.34	.43	1.22	1.89	2.75	1.79	2.18	1.15	1.59	1.25	.52
CAL YR 1990	TOTAL 1937226	MEAN 5307	MAX 57700	MIN 569	CFSM 1.00	IN. 13.57						
WTR YR 1991	TOTAL 2201712	MEAN 6032	MAX 40400	MIN 569	CFSM 1.14	IN. 15.42						

APALACHICOLA RIVER BASIN

02352500 FLINT RIVER AT ALBANY, GA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.45	2.96	2.67	3.95	15.30	7.78	7.42	7.08	7.52	8.26	7.99	4.62
2	2.32	2.64	2.54	4.42	15.73	8.39	9.76	8.19	7.50	6.36	8.14	4.14
3	2.32	2.77	2.78	4.38	15.41	14.88	11.51	8.75	7.37	6.53	7.12	4.53
4	4.34	3.13	2.56	4.47	15.18	23.14	11.93	8.25	8.13	5.41	6.56	5.76
5	2.77	2.64	2.63	4.80	15.86	25.60	11.26	8.02	7.29	5.39	5.45	4.95
6	2.02	2.88	2.72	4.01	14.46	23.67	10.30	7.36	6.13	5.08	5.56	5.64
7	2.73	2.65	2.69	4.26	10.45	20.91	7.50	7.69	5.83	6.15	5.48	4.86
8	1.99	2.86	3.04	3.69	8.96	19.53	6.62	7.85	5.56	5.76	5.14	3.59
9	1.92	2.80	2.74	4.60	7.96	17.62	8.85	7.77	4.29	7.32	5.10	3.30
10	1.93	3.17	2.89	4.43	7.44	14.26	9.81	8.24	5.01	7.05	4.44	3.77
11	1.93	3.44	2.80	5.00	7.25	10.43	8.42	12.58	4.73	5.96	5.01	3.40
12	2.21	2.86	2.99	4.83	6.59	7.36	9.02	14.13	3.33	6.06	5.05	3.30
13	1.53	3.07	2.56	4.32	6.08	7.23	8.28	15.01	4.25	4.88	5.06	3.45
14	2.22	4.13	2.96	4.93	6.11	7.01	7.86	15.24	3.98	4.43	6.13	3.45
15	2.54	2.98	2.52	4.99	6.04	7.40	6.19	14.01	3.31	5.32	7.22	2.82
16	2.95	3.13	3.02	5.18	5.31	6.14	5.87	13.21	3.91	6.17	7.92	3.02
17	2.84	3.23	2.73	5.93	4.67	6.76	6.72	11.95	4.09	9.91	8.01	3.43
18	2.86	3.48	3.14	6.02	4.97	6.80	6.77	9.21	3.87	12.68	8.02	3.34
19	2.94	3.51	3.72	6.79	5.23	7.08	5.65	7.21	3.98	10.60	7.60	3.10
20	3.04	3.23	3.68	6.80	4.95	7.43	6.58	5.46	4.27	11.10	6.15	3.73
21	2.66	3.24	4.45	7.41	5.86	6.40	5.80	6.61	4.05	8.90	5.75	3.66
22	2.92	2.80	3.66	7.48	5.20	6.55	5.92	6.38	4.13	9.55	4.97	3.67
23	3.93	2.87	3.47	6.99	5.40	6.83	6.05	6.23	4.81	7.20	5.01	3.61
24	2.90	2.98	4.69	6.35	5.49	5.60	6.35	6.15	4.53	6.43	4.73	3.16
25	3.39	2.69	4.75	7.05	6.25	5.17	6.43	5.28	5.31	5.78	4.86	3.50
26	3.63	3.16	3.80	7.23	7.17	5.06	6.10	5.63	7.12	6.23	4.15	3.25
27	2.97	2.88	4.30	6.41	8.10	5.25	5.91	5.76	8.33	5.17	4.97	3.48
28	3.45	2.96	4.53	6.52	7.57	5.33	4.96	6.15	9.13	5.12	5.63	3.95
29	3.39	2.15	3.86	7.30	---	5.43	5.75	6.98	9.25	5.01	4.82	2.59
30	3.43	3.17	4.69	8.37	---	6.25	6.34	5.76	8.81	5.93	5.30	2.59
31	3.26	---	3.64	11.92	---	7.11	---	6.71	---	6.70	5.51	---
MEAN	2.77	3.02	3.33	5.83	8.39	10.14	7.53	8.54	5.66	6.85	5.90	3.72
MAX	4.34	4.13	4.75	11.92	15.86	25.60	11.93	15.24	9.25	12.68	8.14	5.76
MIN	1.53	2.15	2.52	3.69	4.67	5.06	4.96	5.28	3.31	4.43	4.15	2.59
CAL YR 1990	MEAN 5.36		MAX 30.69		MIN 1.53							
WTR YR 1991	MEAN 5.97		MAX 25.60		MIN 1.53							

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 1990 TO SEPTEMBER 1991

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...	1450	2720	126	130	7.4	7.3	14.0	20.0	10.0	98
MAR 20...	1135	11400	86	85	7.2	6.4	16.0	22.5	9.9	101
JUN 20...	0810	3280	95	92	7.1	7.1	27.0	26.0	6.7	86
AUG 20...	0920	6720	90	89	7.1	7.0	28.0	24.0	7.0	91

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 20...	40	8.0	0.2	270	31	0.290	0.040	0.080	4.2
MAR 20...	75	12	0.6	130	7	0.530	<0.030	0.080	7.3
JUN 20...	--	15	1.0	<20	31	0.510	0.050	0.050	3.8
AUG 20...	50	11	0.9	170	24	0.290	0.040	0.060	4.5

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 1990 TO SEPTEMBER 1991

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...	1505	1620	132	131	7.6	7.7	25.0	28.0	8.0	98
NOV										
15...	0950	1530	132	132	7.0	7.3	16.5	16.5	8.3	85
DEC										
19...	1515	2380	135	135	6.9	7.2	15.5	17.0	9.8	100
JAN										
30...	1110	9660	91	85	6.7	6.9	12.5	22.5	--	--
FEB										
20...	1510	4090	118	116	7.4	7.3	14.0	27.0	9.8	96
MAR										
20...	1055	7840	86	84	7.3	7.1	16.0	21.5	9.2	94
APR										
17...	1500	7100	87	83	7.2	7.2	22.0	19.5	7.8	91
MAY										
22...	0900	7000	94	88	7.2	7.1	24.0	25.0	7.3	88
JUN										
19...	1425	2970	155	155	7.4	7.3	26.0	30.0	6.4	80
JUL										
25...	1445	5440	120	119	6.9	7.2	28.0	25.0	7.0	91
AUG										
22...	1455	4410	120	115	7.1	7.3	27.5	30.0	6.7	86
SEP										
19...	1440	1890	140	144	7.3	7.5	28.0	32.0	6.8	88

APALACHICOLA RIVER BASIN

02352790 FLINT RIVER NEAR PUTNEY, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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- PENDE (MG/L)
OCT 17...	30	5.0	12	1.0	50	35	7
NOV 15...	40	8.0	8	0.7	130	32	3
DEC 19...	40	8.0	--	--	54000	32	--
JAN 30...	90	40	18	1.0	14000	20	27
FEB 20...	60	15	15	0.6	270	32	4
MAR 20...	75	16	18	0.9	210	35	5
APR 17...	100	18	20	0.8	70	24	3
MAY 22...	110	21	--	1.3	130	31	5
JUN 19...	40	11	--	0.9	2200	55	--
JUL 25...	60	13	--	0.6	2300	39	7
AUG 22...	60	8.0	--	0.4	460	38	3
SEP 19...	15	3.0	--	1.9	900	46	<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)
OCT 17...	0.310	0.060	0.34	0.40	0.71	0.110	3.2
NOV 15...	0.500	0.040	0.26	0.30	0.80	0.100	5.8
DEC 19...	0.400	0.060	--	--	--	0.150	5.2
JAN 30...	0.400	0.100	0.70	0.80	1.2	0.120	15
FEB 20...	0.770	0.070	0.23	0.30	1.1	0.070	7.2
MAR 20...	0.480	<0.030	--	0.20	0.68	0.060	7.3
APR 17...	0.440	0.050	0.15	0.20	0.64	0.090	7.8
MAY 22...	0.450	0.040	--	--	--	0.100	2.6
JUN 19...	0.920	0.060	--	--	--	0.160	4.5
JUL 25...	0.530	0.050	--	--	--	0.060	6.8
AUG 22...	0.310	0.060	--	--	--	0.080	4.2
SEP 19...	0.680	0.130	--	--	--	0.070	5.1

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: May 12-13, 19. 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.--47 years (water years 1939-50, 1957-91), 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)
Feb. 6	0700	20,600	16.90	May 14	1900	20,000	16.59
Mar. 7	0100	*36,000	*24.30				

Minimum discharge, 886 ft³/s, Oct. 14, gage height, 3.06 ft.

APALACHICOLA RIVER BASIN

02353000 FLINT RIVER AT NEWTON, GA.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1950	2120	2010	2400	17700	9410	8720	8150	8350	10600	9940	4980
2	1430	1680	1550	3620	19100	9770	10400	9160	8940	8970	10000	4330
3	1330	1530	1460	3470	20000	14900	13200	10300	9000	8240	9580	3660
4	1860	1820	1600	3510	19600	23800	14400	10700	9490	7030	8530	5650
5	3260	1730	1440	3610	20000	29400	14700	10000	9470	6040	7710	5320
6	1480	1500	1470	3770	20300	34500	14000	9780	7870	5470	6680	5380
7	1370	1830	1590	3130	16800	35400	11100	10000	6760	6150	6330	5400
8	1460	1490	1720	2980	13000	32500	8940	10000	6520	6540	6280	3920
9	1120	1770	1660	3210	11300	29300	9200	9840	5230	8000	5830	3280
10	1080	1790	1620	3390	9900	25100	12400	9890	5110	8530	4640	3040
11	1070	2080	1700	4390	9450	18900	11500	12700	4420	7850	5290	3180
12	1080	2030	1650	4200	8830	12900	11000	16000	4090	6860	5530	2780
13	1260	1890	1770	3660	7520	10200	10600	19000	4240	6480	5680	3350
14	922	2340	1570	3910	7590	9590	10200	19800	4110	5410	5560	3130
15	1200	2610	1780	4300	7170	9920	8450	19100	3130	4540	8040	2480
16	1490	1950	1500	4450	6750	8900	7320	18300	3150	6730	9130	2220
17	1730	1990	1790	5310	5270	8380	7560	16800	3560	11600	9540	2740
18	1690	2130	1560	5720	4810	9020	8250	14100	4070	17700	9770	2960
19	1670	2450	2120	6320	5770	9200	7570	9800	3010	17700	10200	2570
20	1660	2030	2410	7720	5040	9680	7370	8180	4260	15600	8170	2850
21	1850	2260	2840	7700	5680	8980	7090	7350	3800	13900	6670	2820
22	1610	1980	3180	8430	6240	8360	6640	8160	3510	13000	6540	3030
23	1960	1600	2580	8200	5240	8140	7060	7860	3900	11100	5520	3020
24	2740	1850	2960	7380	5900	7600	7390	7650	4280	8950	5290	2810
25	1800	1640	3780	7500	5980	6590	7680	6290	5000	8130	5140	2590
26	2270	1570	3590	8690	7620	5600	7390	6890	6300	7350	4360	2840
27	2590	2020	3040	7710	8690	6460	7110	5970	10500	6720	4420	2550
28	1930	1650	3350	7140	9050	5500	6350	7250	11800	6620	6330	3050
29	2200	1770	3230	7890	---	6500	5820	7720	11800	5840	4860	3150
30	2270	1320	3410	9760	---	6970	6720	7850	11500	6170	5790	1860
31	2170	---	3600	13400	---	7730	---	7180	---	7580	5770	---
TOTAL	53502	56420	69530	176870	290300	429200	276130	331770	187170	271400	213120	100940
MEAN	1726	1881	2243	5705	10370	13850	9204	10700	6239	8755	6875	3365
MAX	3260	2610	3780	13400	20300	35400	14700	19800	11800	17700	10200	5650
MIN	922	1320	1440	2400	4810	5500	5820	5970	3010	4540	4360	1860
CFSM	.30	.33	.39	.99	1.81	2.41	1.60	1.86	1.09	1.53	1.20	.59
IN.	.35	.37	.45	1.15	1.88	2.78	1.79	2.15	1.21	1.76	1.38	.65
CAL YR 1990	TOTAL 2104222	MEAN 5765	MAX 47000	MIN 922	CFSM 1.00	IN. 13.64						
WTR YR 1991	TOTAL 2456352	MEAN 6730	MAX 35400	MIN 922	CFSM 1.17	IN. 15.92						

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.

REMARKS.—Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Present data above the $\mu\text{g/L}$ level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey will begin using new trace-element protocols in the near future.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 HCO_3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CaCO_3
NOV 05...	1400	1630	128	127	7.6	7.7	20.0	8.1	90	46	38
JAN 30...	1500	9960	104	104	7.4	7.9	12.0	10.0	93	28	23
APR 25...	1330	7820	—	103	7.5	7.6	21.5	7.5	—	46	38
MAY 23...	0800	8160	110	115	7.6	7.5	23.5	6.7	79	54	45
JUL 11...	0630	8640	112	108	7.7	7.6	28.0	7.1	91	46	38
SEP 05...	1330	5070	120	119	7.6	7.5	27.0	6.5	82	52	43

DATE	ALKA-LINITY WAT. DIS FET LAB CaCO_3 (MG/L)	TUR-BID-ITY (NTU)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CaCO_3)	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 05...	43	6.5	77	K17	37	13	1.2	11	38	0.8	1.3
JAN 30...	25	22	K3000	K2900	25	8.2	1.0	9.1	43	0.8	1.5
APR 25...	37	17	46	360	37	13	1.1	4.6	20	0.3	1.5
MAY 23...	46	13	93	67	50	18	1.1	3.9	14	0.2	1.4
JUL 11...	39	6.5	140	83	38	13	1.4	6.4	26	0.5	1.4
SEP 05...	45	5.5	210	22	45	16	1.1	5.4	20	0.4	1.6

DATE	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)	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 05...	7.5	6.6	<0.10	9.1	74	75	326	0.10
JAN 30...	11	6.8	<0.10	8.4	68	62	1830	0.09
APR 25...	3.9	4.4	<0.10	8.9	83	63	1750	0.11
MAY 23...	3.5	5.5	0.20	8.4	92	72	2030	0.13
JUL 11...	5.2	5.5	0.20	9.6	85	68	1980	0.12
SEP 05...	4.6	4.4	<0.10	9.3	66	71	903	0.09

APALACHICOLA RIVER BASIN

02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (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, NITRITE 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)
NOV 05...	0.020	0.500	0.400	0.030	0.020	0.030	0.27	0.30	0.050	0.040	0.040
JAN 30...	<0.010	0.400	0.400	0.070	<0.010	0.070	0.93	1.0	0.050	0.030	0.030
APR 25...	0.010	0.520	0.540	0.060	0.020	0.060	0.34	0.40	0.080	0.050	0.020
MAY 23...	<0.010	0.530	0.550	0.050	0.020	0.050	0.45	0.50	0.070	0.030	0.020
JUL 11...	0.020	0.470	0.490	0.030	0.010	0.040	0.47	0.50	0.050	0.030	0.020
SEP 05...	<0.010	0.550	0.560	<0.010	0.010	<0.010	--	0.40	0.050	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 05...	70	<1	15	<0.5	<1.0	2	<3	<1	290	3
JAN 30...	70	<1	17	<0.5	<1.0	4	<3	1	420	<1
APR 25...	--	--	--	--	--	--	--	--	--	--
MAY 23...	290	<1	22	<0.5	<1.0	<1	<3	1	750	1
JUL 11...	--	--	--	--	--	--	--	--	--	--
SEP 05...	40	<1	20	<0.5	<1.0	<1	<3	1	450	<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 05...	<4	12	<0.1	<10	1	<1	<1.0	27	<6	<3
JAN 30...	<4	26	<0.1	<10	1	<1	1.0	21	<6	3
APR 25...	--	--	--	--	--	--	--	--	--	--
MAY 23...	4	16	<0.1	<10	1	<1	<1.0	30	<6	6
JUL 11...	--	--	--	--	--	--	--	--	--	--
SEP 05...	<4	11	<0.1	<10	<1	<1	<1.0	30	<6	<3

APALACHICOLA RIVER BASIN

02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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)
NOV						
02...	1501	80113	1590	20.0	8	34
02...	1506	80113	1590	20.0	9	39
05...	1405	84213	1630	20.0	8	35
DEC						
14...	1456	80113	1400	14.5	10	38
14...	1501	84213	1400	14.5	10	38
JAN						
18...	1016	80113	5300	12.0	24	343
18...	1021	80113	5300	12.0	29	415
30...	1505	84213	9960	12.0	38	1020
FEB						
22...	1315	80113	6270	16.0	17	288
22...	1320	80113	6270	16.0	15	254
APR						
19...	0851	80113	8070	22.0	15	327
19...	0856	80113	8070	22.0	17	370
25...	1335	84213	7820	21.5	30	633
MAY						
23...	0805	84213	8160	23.5	13	286
24...	0921	80113	7480	24.5	17	343
24...	0926	80113	7480	24.5	18	364
JUL						
02...	1419	80113	8470	27.5	17	389
02...	1424	80113	8470	27.5	19	435
11...	0635	84213	8640	28.0	10	233
AUG						
02...	1337	80113	10400	27.0	18	505
02...	1342	80113	10400	27.0	17	477
SEP						
05...	1335	84213	5070	27.0	9	123

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV				
05...	1405	84213	1630	80
JAN				
30...	1505	84213	9960	82
APR				
25...	1335	84213	7820	68
MAY				
23...	0805	84213	8160	91
JUL				
11...	0635	84213	8640	91
SEP				
05...	1335	84213	5070	92

APALACHICOLA RIVER BASIN

02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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											
30...	1828	1620	<1	2	7	11	25	79	91	96	100
30...	1829	1620	<1	<1	4	11	22	55	80	98	100
30...	1830	1620	<1	<1	4	18	33	59	75	92	97
30...	1831	1620	<1	<1	2	30	93	100	100	100	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.—Estimated daily discharges: May 9 to June 25. Records good.

AVERAGE DISCHARGE.—15 years (water years 1959-71, 1989-91), 246 ft³/s, 17.77 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)
Jan. 31	1500	1,810	7.00	July 18	1000	1,340	6.58
Mar. 3	2400	*4,580	*8.27	Aug. 16	0100	1,620	6.84

Minimum discharge, 65 ft³/s, Oct. 17, 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	83	113	161	1460	196	302	259	110	214	313	176
2	86	82	110	280	892	905	219	311	140	205	264	150
3	78	83	116	430	582	3070	201	226	188	148	239	141
4	73	84	170	319	444	3340	190	183	197	142	173	135
5	73	85	234	329	363	1390	182	154	156	150	164	125
6	75	88	179	249	359	862	183	205	182	174	151	117
7	71	93	146	197	549	623	187	271	139	209	149	115
8	68	92	169	200	592	522	197	237	113	239	132	118
9	67	104	200	216	459	475	233	242	101	315	118	121
10	68	148	160	197	346	424	276	550	95	560	149	114
11	77	195	137	233	281	364	371	645	89	411	243	109
12	87	147	129	380	246	318	331	545	83	210	417	109
13	88	120	124	361	230	310	210	339	81	160	437	110
14	83	110	123	245	225	314	183	235	79	136	416	100
15	77	105	123	194	200	303	171	188	76	122	895	97
16	68	108	124	333	186	269	178	166	75	150	1250	95
17	65	114	123	554	201	307	176	171	77	546	665	95
18	67	124	126	409	244	519	173	193	74	1230	368	97
19	92	118	158	308	223	646	162	163	111	881	272	118
20	92	118	244	570	208	518	160	155	120	545	260	171
21	81	111	371	653	202	372	151	163	96	386	225	158
22	83	108	319	434	184	318	139	160	89	255	179	128
23	120	107	195	264	211	293	288	150	96	193	151	116
24	146	109	212	277	263	270	586	141	208	172	157	111
25	114	109	325	475	232	248	539	153	323	208	282	125
26	95	108	268	548	202	226	318	178	615	200	406	182
27	88	109	171	355	187	217	362	205	927	161	355	145
28	85	112	149	279	176	213	375	234	874	136	251	120
29	84	124	141	394	---	223	259	208	648	141	226	109
30	83	122	140	840	---	280	221	162	322	195	200	104
31	83	---	142	1700	---	412	---	129	---	311	191	---
TOTAL	2604	3320	5441	12384	9947	18747	7523	7321	6484	9105	9698	3711
MEAN	84.0	111	176	399	355	605	251	236	216	294	313	124
MAX	146	195	371	1700	1460	3340	586	645	927	1230	1250	182
MIN	65	82	110	161	176	196	139	129	74	122	118	95
CFSM	.45	.59	.93	2.12	1.89	3.22	1.33	1.26	1.15	1.56	1.66	.66
IN.	.52	.66	1.08	2.45	1.97	3.71	1.49	1.45	1.28	1.80	1.92	.73

CAL YR 1990 TOTAL 77908 MEAN 213 MAX 1570 MIN 50 CFSM 1.14 IN. 15.42
WTR YR 1991 TOTAL 96285 MEAN 264 MAX 3340 MIN 65 CFSM 1.40 IN. 19.05

APALACHICOLA RIVER BASIN

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.--54 years (water years 1906-07, 1940-91), 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)
Feb. 2	0500	4,400	7.97	Mar. 5	0900	*9,710	*13.43

Minimum discharge, 152 ft³/s, Oct. 1, gage height, 0.67 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	189	269	345	3740	649	879	911	553	1760	791	439
2	180	191	259	395	4280	1110	905	896	479	1210	818	411
3	188	192	251	503	3570	2500	863	917	505	800	683	375
4	175	197	266	605	2660	6970	769	875	627	578	622	345
5	168	198	337	626	1950	9500	708	780	756	675	533	324
6	169	197	395	611	1470	7360	682	776	824	829	478	300
7	172	200	387	581	1400	4370	677	866	670	785	438	288
8	166	208	348	523	1700	2830	721	884	465	712	424	292
9	157	215	371	487	1750	2100	794	858	375	709	399	305
10	158	227	398	480	1380	1710	847	849	342	772	356	290
11	162	287	370	500	1250	1400	903	1090	313	833	400	270
12	172	346	328	546	1070	1230	918	1380	293	830	539	256
13	188	330	305	612	922	1110	928	1420	269	602	711	254
14	198	282	292	652	873	1050	835	1120	259	464	817	249
15	194	255	286	619	852	1010	734	925	244	399	957	236
16	180	243	285	599	787	977	722	961	244	457	1020	231
17	171	236	282	670	737	969	739	962	266	641	1570	219
18	170	236	280	758	716	1140	686	794	298	1090	1930	218
19	167	245	291	835	729	1480	653	692	301	2050	1390	226
20	196	239	352	902	712	1700	632	606	324	2350	865	311
21	213	239	445	1070	700	1650	606	575	332	1870	649	446
22	208	233	524	1160	694	1390	572	570	302	1270	558	396
23	212	234	561	1080	709	1130	654	542	302	837	494	343
24	252	233	512	924	728	985	1020	523	329	675	429	312
25	292	232	483	944	754	918	1180	531	470	570	456	292
26	268	236	523	1010	759	873	1190	564	657	529	676	294
27	231	237	533	988	736	830	1070	586	943	506	746	351
28	213	235	439	887	693	797	972	610	1840	461	686	332
29	203	246	372	948	---	784	920	645	2740	412	598	294
30	198	260	347	1330	---	830	910	654	2410	448	499	273
31	192	---	340	2140	---	855	---	626	---	564	454	---
TOTAL	5971	7098	11431	24330	38321	62207	24689	24988	18732	26688	21986	9172
MEAN	193	237	369	785	1369	2007	823	806	624	861	709	306
MAX	292	346	561	2140	4280	9500	1190	1420	2740	2350	1930	446
MIN	157	189	251	345	693	649	572	523	244	399	356	218
CFSM	.31	.38	.59	1.27	2.21	3.24	1.33	1.30	1.01	1.39	1.14	.49
IN.	.36	.43	.69	1.46	2.30	3.73	1.48	1.50	1.12	1.60	1.32	.55

CAL YR 1990	TOTAL 219776	MEAN 602	MAX 4510	MIN 100	CFSM .97	IN. 13.19
WTR YR 1991	TOTAL 275613	MEAN 755	MAX 9500	MIN 157	CFSM 1.22	IN. 16.54

APALACHICOLA RIVER BASIN

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—October 1970 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, and Dissolved Oxygen are by the U.S. Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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...	1520	275	58	70	7.0	6.8	15.0	22.0	9.2	92
JAN 29...	1620	948	52	82	6.5	7.0	11.0	16.0	10.1	93
MAR 25...	1440	917	89	88	7.4	7.1	20.0	29.0	7.8	87
MAY 21...	1345	574	103	98	7.1	7.2	23.5	26.5	7.7	92
JUL 23...	1410	798	80	78	6.8	6.9	27.5	32.0	6.9	89
SEP 24...	1445	308	105	103	6.9	6.8	24.0	31.0	6.9	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 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)
NOV 14...	40	6.0	1.5	20	13	0.480	<0.030	0.150	6.9
JAN 29...	50	14	0.7	400	22	0.450	0.050	0.060	15
MAR 25...	70	12	0.4	<20	33	0.430	0.050	0.050	14
MAY 21...	110	15	--	35	40	0.630	0.050	0.070	<1.0
JUL 23...	70	14	0.1	20	28	0.400	0.100	0.080	9.1
SEP 24...	60	10	1.2	80	40	0.050	0.170	0.050	6.0

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, 43,100 ft³/s, Mar. 8, gage height, 26.65 ft.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.49	18.24	18.37	18.40	21.12	20.01	20.22	20.14	19.91	20.68	20.17	19.79
2	18.57	18.58	18.26	18.46	21.97	20.57	19.93	20.29	19.92	20.59	20.41	19.34
3	18.62	18.64	18.17	18.56	22.37	20.59	20.28	20.46	20.03	20.51	20.47	19.31
4	18.59	18.51	18.26	18.61	22.25	22.49	20.81	20.60	20.08	20.33	20.22	19.41
5	18.64	18.50	18.30	18.64	22.12	24.06	21.25	20.51	20.24	19.93	20.14	19.72
6	18.61	18.58	18.31	18.62	22.14	25.41	21.13	20.44	20.06	19.85	20.10	19.84
7	18.40	18.62	18.29	18.63	22.03	26.41	20.82	20.31	19.79	19.81	20.00	19.91
8	18.21	18.61	18.30	18.82	21.29	26.49	20.20	20.24	19.63	19.84	19.99	19.56
9	18.24	18.65	18.14	18.83	20.71	25.84	19.96	20.24	19.50	19.93	19.86	19.00
10	18.31	18.77	18.06	18.94	20.08	24.96	20.27	20.24	19.14	20.19	19.95	18.93
11	18.38	18.65	18.19	19.16	19.66	23.80	20.54	20.45	19.13	20.30	19.84	18.99
12	18.49	18.50	18.53	19.17	19.59	22.24	20.52	21.30	19.18	20.02	19.86	19.23
13	18.66	18.51	18.54	18.62	19.49	21.14	20.54	21.86	19.23	19.88	19.88	19.43
14	18.66	18.63	18.39	18.03	19.37	20.74	20.40	22.07	19.33	19.49	19.95	19.58
15	18.35	18.78	18.45	18.16	19.50	20.52	20.24	22.16	19.43	19.29	20.07	19.15
16	18.32	18.99	18.22	18.47	19.47	20.70	19.81	22.04	18.93	19.45	20.12	18.68
17	18.41	19.02	18.00	18.80	19.28	20.39	19.71	21.91	18.52	20.01	20.13	18.76
18	18.60	18.61	18.01	19.21	18.96	20.51	19.94	21.49	18.56	21.09	20.20	18.95
19	18.66	18.25	18.03	19.58	18.95	20.57	20.12	20.57	18.63	21.78	20.38	18.89
20	18.64	18.30	18.17	19.76	18.97	20.52	19.97	19.66	18.89	21.71	20.39	18.81
21	18.32	18.36	18.39	19.75	18.91	20.50	19.64	19.13	19.23	21.62	20.09	19.08
22	18.23	18.47	18.66	19.95	19.23	20.34	19.15	19.16	19.52	21.12	19.86	18.50
23	18.42	18.52	18.41	20.01	19.45	20.17	19.12	19.24	19.47	21.12	19.58	17.86
24	18.55	18.49	18.16	20.07	19.29	19.66	19.47	19.38	19.41	20.66	19.50	18.00
25	18.53	18.20	18.15	19.91	19.15	19.09	19.86	19.64	19.55	20.32	19.27	18.45
26	18.37	18.13	18.32	19.94	19.37	19.02	20.02	19.70	19.69	20.17	18.96	18.79
27	18.28	18.20	18.42	19.68	19.58	19.23	20.03	19.78	20.13	20.04	18.90	19.09
28	18.16	18.34	18.48	19.60	19.81	19.72	19.87	19.81	20.68	19.64	19.15	19.19
29	18.04	18.44	18.50	19.61	---	20.03	19.63	20.03	20.96	19.45	19.48	18.73
30	18.01	18.41	18.42	20.01	---	20.08	19.93	20.19	20.95	19.58	19.64	18.22
31	18.05	---	18.40	20.54	---	20.21	---	20.05	---	19.79	19.90	---
MEAN	18.41	18.52	18.30	19.18	20.15	21.48	20.11	20.42	19.59	20.26	19.89	19.04
MAX	18.66	19.02	18.66	20.54	22.37	26.49	21.25	22.16	20.96	21.78	20.47	19.91
MIN	18.01	18.13	18.00	18.03	18.91	19.02	19.12	19.13	18.52	19.29	18.90	17.86
CAL YR 1990	MEAN 19.27		MAX 26.66	MIN 17.52								
WTR YR 1991	MEAN 19.61		MAX 26.49	MIN 17.86								

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 1990 TO SEPTEMBER 1991

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...	1230	18.34	175	175	7.6	7.9	25.0	29.0	8.5	104
NOV 14...	1245	18.63	150	152	7.1	7.6	18.0	23.0	8.2	87
DEC 19...	1250	17.92	160	143	--	7.7	17.5	17.5	9.4	100
JAN 29...	1325	19.54	--	113	--	7.3	11.0	16.0	10.6	--
FEB 20...	1155	18.95	163	160	7.5	7.4	14.0	26.5	9.8	96
MAR 25...	1155	19.03	138	137	7.6	7.5	20.0	27.0	7.8	86
APR 17...	1220	19.68	142	142	7.3	7.5	22.0	22.5	7.0	81
MAY 21...	1055	19.10	142	--	7.3	7.6	24.0	24.5	6.3	76
JUN 19...	1045	18.67	182	172	7.4	7.6	26.0	30.5	7.0	88
JUL 25...	1145	20.28	145	143	7.1	7.4	27.5	29.0	7.0	90
AUG 22...	1200	19.87	143	140	7.2	7.5	26.5	32.0	7.0	88
SEP 19...	1150	18.89	185	181	7.4	7.8	27.5	32.0	7.5	96

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...	15	2.0	--	1.0	50	64	3
NOV 14...	25	5.0	--	1.5	250	49	2
DEC 19...	20	6.0	--	--	40	55	5
JAN 29...	60	17	--	1.1	490	30	13
FEB 20...	60	12	--	0.7	50	53	6
MAR 25...	45	10	--	0.6	20	51	5
APR 17...	80	26	--	1.2	6400	49	12
MAY 21...	--	21	--	--	1700	52	11
JUN 19...	40	6.0	--	0.7	80	66	2
JUL 25...	70	9.0	15	0.6	50	50	7
AUG 22...	40	7.0	15	0.4	130	52	5
SEP 19...	10	2.0	<5	0.7	110	73	1

APALACHICOLA RIVER BASIN

02356015 FLINT RIVER BELOW BAINBRIDGE, GA.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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...	0.910	<0.030	--	--	--	0.090	1.6
NOV 14...	0.910	0.080	--	--	--	0.120	6.4
DEC 19...	0.920	0.170	--	--	--	0.130	4.0
JAN 29...	0.830	0.200	--	--	--	0.110	9.1
FEB 20...	1.49	0.410	--	--	--	0.070	5.2
MAR 25...	0.790	0.190	--	--	--	0.090	13
APR 17...	1.37	0.790	--	--	--	0.130	7.0
MAY 21...	0.900	0.290	--	--	--	0.100	3.7
JUN 19...	1.58	0.470	--	--	--	0.160	4.0
JUL 25...	1.27	0.580	0.42	1.0	2.3	0.090	6.3
AUG 22...	0.530	0.170	0.13	0.30	0.83	0.080	4.3
SEP 19...	1.27	0.340	0.06	0.40	1.7	0.020	3.6

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.--43 years (water years 1938-70, 1978, 1983-91), 491 ft³/s, 13.75 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)
Feb. 2	2200	4,600	14.96	Mar. 5	1900	*9,120	*18.04
Feb. 10	2100	2,060	11.67	Mar. 20	1600	2,070	11.69

Minimum discharge, 10 ft³/s, Oct. 18, 19.

REVISIONS.--The maximum discharges for the water years 1983 and 1984 have been revised to 6,690 ft³/s, Feb. 16, 1983, gage height 16.27 and 6,100 ft³/s, Mar. 8, 1984, gage height 16.16 ft; and revised daily discharges, in cubic feet per second, for several days in February 1983 and March 1984 are given below. These figures supercede those published in the annual reports for 1983 and 1984.

		February 16, 1983	6,340			
		February 17, 1983	6,340			
		March 8, 1984	5,910			
	TOTAL	MEAN	MAX	MIN	CFSM	IN.
FEB 1983	70420	2515	6340	1280	5.19	5.40
WTR YR 1983	305798	838	6340	94	1.73	23.46
CAL YR 1983	336727	923	6340	94	1.90	25.83
MAR 1984	59754	1928	5910	921	3.97	4.58
WTR YR 1984	290372	793	5910	87	1.64	22.27
CAL YR 1984	234868	642	5910	55	1.32	18.01

APALACHICOLA RIVER BASIN

02357000 SPRING CREEK NEAR IRON CITY, GA--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	16	27	3490	561	961	864	777	1000	400	362
2	14	14	16	27	4380	994	866	862	675	914	395	331
3	13	14	17	30	4270	2200	806	829	612	717	387	305
4	14	14	20	36	3150	5530	749	826	568	574	403	305
5	13	15	24	40	2200	8760	689	790	535	502	398	295
6	13	15	24	44	1700	8170	661	831	512	477	403	270
7	12	15	24	48	1440	5320	624	845	483	720	451	246
8	11	15	26	51	1430	3620	643	777	435	810	470	227
9	11	18	28	55	1740	2580	790	753	381	953	497	213
10	11	20	29	58	2020	1990	942	757	342	1030	494	201
11	11	22	28	63	1980	1650	1050	890	313	1120	562	191
12	12	22	26	73	1640	1400	1040	1040	284	1020	595	181
13	13	23	24	81	1320	1270	950	1040	260	859	552	172
14	13	22	23	86	1150	1210	867	1010	240	747	547	164
15	12	20	21	90	1030	1080	805	957	225	651	555	157
16	11	19	20	95	924	999	765	856	213	722	569	151
17	11	18	20	103	854	983	784	775	208	1040	668	146
18	10	17	20	113	810	1120	1030	770	260	1470	673	142
19	10	17	21	132	788	1540	1100	714	308	1680	657	145
20	11	16	24	182	756	2020	1020	635	301	1840	636	155
21	11	16	27	236	712	2060	911	584	303	1740	552	144
22	14	16	30	281	682	2000	806	607	283	1310	500	141
23	17	15	30	307	668	1750	723	731	268	971	482	147
24	18	15	30	330	648	1410	685	759	272	791	447	162
25	18	15	28	467	634	1180	746	758	357	679	400	167
26	17	14	29	630	623	1030	843	747	390	622	366	161
27	17	14	28	724	605	943	927	755	510	563	343	154
28	16	13	28	752	583	871	982	832	681	511	325	144
29	16	14	28	802	---	823	933	892	817	473	349	136
30	16	16	28	1250	---	929	882	913	955	446	427	130
31	15	---	27	2400	---	1030	---	890	---	422	434	---
TOTAL	415	499	764	9613	42227	67023	25580	25289	12768	27374	14937	5845
MEAN	13.4	16.6	24.6	310	1508	2162	853	816	426	883	482	195
MAX	18	23	30	2400	4380	8760	1100	1040	955	1840	673	362
MIN	10	13	16	27	583	561	624	584	208	422	325	130
CFSM	.03	.03	.05	.64	3.11	4.46	1.76	1.68	.88	1.82	.99	.40
IN.	.03	.04	.06	.74	3.24	5.14	1.96	1.94	.98	2.10	1.15	.45
CAL YR 1990	TOTAL 143939.4		MEAN 394		MAX 5700		MIN 5.3		CFSM .81		IN. 11.04	
WTR YR 1991	TOTAL 232334		MEAN 637		MAX 8760		MIN 10		CFSM 1.31		IN. 17.82	

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, 2,033,600 acre-ft May 7, elevation, 1,073.00 ft; minimum, 1,556,600 acre-ft Dec. 19, elevation, 1,059.86 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1063.39	1676600	-	-
Oct. 31.....	1061.83	1622900	-53700	-873
Nov. 30.....	1060.41	1574700	-48200	-810
Dec. 31.....	1060.95	1593000	+18300	+298
CAL YR 1990	-	--	+363000	-501
Jan. 31.....	1063.43	1678000	+85000	+1382
Feb. 28.....	1065.26	1742400	+64400	+1160
Mar. 31.....	1069.13	1884000	+141600	+2303
Apr. 30.....	1072.26	2004300	+120300	+2022
May 31.....	1071.80	1986400	-17900	-291
June 30.....	1072.10	1998100	+11700	+197
July 31.....	1071.76	1984800	-13300	-216
Aug. 31.....	1071.99	1993800	+9000	+146
Sept. 30.....	1068.96	1877700	-116100	-1951
WTR YR 1991	-	-	+201100	+278

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, 690,700 acre-ft April 16, 1979, elevation, 638.17 ft; minimum, since first filling, 295,200 acre-ft, Nov. 8, 1985, elevation, 619.80 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 592,100 acre-ft May 12, elevation, 637.51 ft; minimum, 362,000 acre-ft Jan. 5, elevation, 621.93 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	628.57	394300	-	-
Oct. 31.....	627.92	382000	-12300	-200
Nov. 30.....	623.00	298400	-83600	-1405
Dec. 31.....	623.29	303000	+4600	+75
CAL YR 1990	-	-	-37800	-52
Jan. 31.....	626.87	362900	+59900	+974
Feb. 28.....	628.39	390900	+28000	+504
Mar. 31.....	632.91	482900	+92000	+1496
Apr. 30.....	636.06	555900	+73000	+1227
May 31.....	636.36	563300	+7400	+120
June 30.....	636.07	556100	-7200	-121
July 31.....	636.29	561600	+5500	+89
Aug. 31.....	636.07	556100	-5500	+89
Sept. 30.....	633.75	501700	-54400	-914
WTR YR 1991	-	-	+107400	+148

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 1990 TO SEPTEMBER 1991

Date	Elevation (feet)*	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	519.8	174000	-	-
Oct. 31.....	520.2	176000	+2000	+33
Nov. 30.....	520.0	175000	-1000	-17
Dec. 31.....	520.4	177000	+2000	+33
CAL YR 1990	-	-	-57000	-79
Jan. 31.....	520.5	178000	+1000	+16
Feb. 28.....	520.5	178000	0	0
Mar. 31.....	519.8	174000	-4000	-65
Apr. 30.....	520.1	176000	+2000	+34
May 31.....	520.5	178000	+2000	+33
June 30.....	520.2	176000	-2000	-34
July 31.....	520.2	176000	0	0
Aug. 31.....	520.3	177000	+1000	+16
Sept. 30.....	520.2	176000	-1000	-17
WTR YR 1991	-	-	+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, 969,500 acre-ft May 14, elevation, 190.76 ft; minimum, 730,300 acre-ft Nov. 17, elevation, 185.08 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	185.73	755300	-	-
Oct. 31.....	185.87	760700	+ 5400	+ 88
Nov. 30.....	185.66	752600	-8100	-136
Dec. 31.....	186.37	780500	+27900	+ 454
CAL YR 1990	-	-	-120200	-166
Jan. 31.....	189.77	924300	+ 143800	+ 2339
Feb. 28.....	187.77	837500	-86800	-1563
Mar. 31.....	189.55	914500	+ 77000	+ 1252
Apr. 30.....	189.86	928300	+ 13800	+ 232
May 31.....	189.97	933200	+ 4900	+ 80
June 30.....	189.42	908700	-24500	-412
July 31.....	189.84	927400	+ 18700	+ 304
Aug. 31.....	188.79	881000	-46400	-755
Sept. 30.....	185.79	757600	-123400	-2074
WTR YR 1991	-	-	+ 2300	+ 3

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 405,400 acre-ft Mar. 2, elevation, 77.98 ft; minimum, 324,500 acre-ft Sept. 24, elevation 75.80 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	76.68	355700	-	-
Oct. 31.....	76.29	341600	-14100	-229
Nov. 30.....	76.64	354300	+12700	+213
Dec. 31.....	76.51	349600	-4700	-76
CAL YR 1990	-	-	-21200	-29
Jan. 31.....	77.53	387900	+38300	+623
Feb. 28.....	77.42	383600	-4300	-77
Mar. 31.....	77.76	396900	+13300	+216
Apr. 30.....	77.72	395300	-1600	-27
May 31.....	77.53	387900	-7400	-120
June 30.....	77.70	394500	+6600	+111
July 31.....	77.52	387500	-7000	-114
Aug. 31.....	77.75	396500	+9000	+146
Sept. 30.....	76.25	340100	-56400	-948
WTR YR 1991	-	-	-15600	-22

MOBILE RIVER BASIN

02379500 CARTECAY RIVER NEAR ELLIJAY, GA.

LOCATION.--Lat 34°40'53", long 84°27'20", Gilmer County, Hydrologic Unit 03150102, on right bank adjacent to State Highway 52, 0.8 mi downstream from Owl Town Creek, 2 mi upstream from confluence with Ellijay River, and 2 mi southeast of Ellijay.

DRAINAGE AREA.--134 mi² (revised).

PERIOD OF RECORD.--September 1972 to May 1974 and July 1991 to September 1991.

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. Water-discharge records for the water years 1937-77 are published in reports of the U.S. Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 30...	0530	210	26	23	7.3	6.7	19.5	16.0	8.6	91
SEP 25...	0700	275	--	27	--	6.8	18.0	18.0	8.3	--

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)	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 30...	8.0	0.6	220	8	8	0.190	<0.030	0.040	2.1
SEP 25...	25	1.4	7900	8	8	0.220	<0.030	0.040	3.4

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.--39 years (water years 1939-49, 1964-91), 514 ft³/s, 29.58 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)
Dec. 23	1915	*7,330	*9.31	Mar. 29	1300	4,980	6.84
Feb. 20	0730	3,830	5.60				

Minimum discharge, 182 ft³/s, Oct. 3.

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	189	238	236	694	502	695	1140	925	702	577	458	433
2	187	234	231	609	454	1410	950	805	761	577	390	444
3	182	231	503	605	432	1360	865	728	637	549	356	394
4	208	231	651	589	416	1160	811	1250	660	558	335	370
5	223	239	378	518	405	937	980	2320	603	605	326	357
6	194	267	314	495	425	855	930	2280	574	536	318	347
7	186	241	286	542	420	961	825	1410	588	506	316	347
8	236	231	269	533	393	876	898	1120	553	491	321	344
9	225	274	252	488	379	816	1080	1040	541	474	404	328
10	217	387	241	472	370	737	968	961	529	476	435	320
11	346	300	236	850	362	692	834	996	518	490	371	316
12	276	268	230	918	354	663	823	1010	559	483	464	313
13	246	255	228	763	428	1050	813	974	593	431	604	308
14	215	245	243	648	698	841	769	892	651	406	481	303
15	198	241	235	585	522	742	738	845	590	389	467	299
16	190	236	235	576	443	687	706	831	544	381	389	297
17	186	235	248	516	521	663	680	813	543	408	354	289
18	743	229	297	479	956	809	662	766	531	592	335	283
19	414	225	395	470	1300	700	855	816	545	484	335	377
20	297	224	334	481	3320	650	746	730	639	465	445	331
21	264	223	338	449	1850	627	692	705	631	420	354	294
22	395	223	309	422	1220	615	661	686	605	401	325	283
23	660	231	3310	411	1170	730	641	684	582	374	312	277
24	421	225	2810	409	919	642	620	665	531	374	308	318
25	338	219	1570	406	812	595	593	640	522	422	311	577
26	298	216	1030	391	754	574	583	628	1020	459	1270	387
27	278	217	900	385	676	566	746	708	1030	512	929	289
28	266	246	910	385	634	874	1180	809	995	473	563	259
29	254	309	725	371	---	3260	1320	694	750	416	578	245
30	248	249	642	532	---	2450	1130	650	637	393	578	235
31	243	---	837	684	---	1450	---	620	---	499	505	---
TOTAL	8823	7389	19423	16676	21135	29687	25239	29001	19164	14621	13937	9964
MEAN	285	246	627	538	755	958	841	936	639	472	450	332
MAX	743	387	3310	918	3320	3260	1320	2320	1030	605	1270	577
MIN	182	216	228	371	354	566	583	620	518	374	308	235
CFSM	1.21	1.04	2.66	2.28	3.20	4.06	3.56	3.97	2.71	2.00	1.91	1.41
IN.	1.39	1.16	3.06	2.63	3.33	4.68	3.98	4.57	3.02	2.30	2.20	1.57
CAL YR 1990	TOTAL 278742		MEAN 764		MAX 9870		MIN 173		CFSM 3.24		IN 43.94	
WTR YR 1991	TOTAL 215059		MEAN 589		MAX 3320		MIN 182		CFSM 2.50		IN 33.90	

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 1,311.14 ft above National Geodetic Vertical Datum of 1929 (leveling by global positioning system equipment).

REMARKS.--No estimated daily discharges. Records good, except those for the period of April 20 to May 20, which are good to fair.

AVERAGE DISCHARGE.--17 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)
Dec. 23	1600	547	5.09	Apr. 28	1645	439	4.48
Mar. 29	1000	355	3.97	May 5	1915	*638	*5.58

Minimum daily discharge, 5.8 ft³/s, Oct. 3.

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	6.1	7.5	7.6	18	14	41	29	39	18	13	15	10
2	6.0	7.2	7.6	15	13	57	27	33	19	12	12	9.8
3	5.8	7.2	25	18	12	65	24	29	18	12	10	9.3
4	7.3	7.2	18	16	11	44	23	58	19	13	9.7	9.1
5	6.6	8.3	12	15	11	31	23	183	17	13	9.4	9.0
6	6.2	8.3	10	13	12	36	22	105	16	12	11	8.8
7	6.1	7.6	9.6	14	11	40	21	52	16	11	17	8.7
8	6.7	7.3	9.1	13	11	34	30	40	16	11	12	8.5
9	6.2	11	8.6	12	10	29	30	37	15	11	20	8.4
10	11	11	8.4	13	10	25	25	32	15	10	14	8.2
11	9.0	8.8	8.1	23	9.9	23	23	32	15	11	17	8.1
12	8.6	8.3	8.1	20	9.9	23	23	35	15	10	22	8.1
13	7.3	7.9	8.2	17	15	46	25	31	15	9.8	16	7.9
14	6.7	7.6	8.7	14	16	30	24	28	16	9.4	20	7.7
15	6.6	7.6	8.1	13	13	26	23	26	15	9.1	16	7.6
16	6.3	7.6	8.1	13	12	23	23	33	15	9.0	13	7.5
17	6.2	7.5	9.2	12	16	22	22	29	14	11	11	7.4
18	11	7.2	12	12	24	24	23	25	14	12	11	7.3
19	7.2	7.2	13	12	53	21	27	24	14	10	11	10
20	6.8	7.2	11	12	128	20	24	22	19	9.8	12	8.2
21	6.8	7.2	11	11	42	19	23	22	16	9.4	10	7.7
22	17	7.2	9.7	11	29	19	23	21	20	9.0	9.8	7.5
23	15	7.3	134	10	33	23	22	22	15	8.8	9.5	7.4
24	9.6	7.2	43	11	26	20	21	20	14	11	9.4	12
25	8.5	7.2	20	10	23	19	21	20	15	10	9.8	21
26	8.2	7.2	15	10	20	18	20	19	28	28	21	9.3
27	8.1	7.2	26	10	19	18	33	24	20	28	12	7.8
28	7.9	9.6	23	9.9	17	32	87	22	16	16	11	7.3
29	7.6	9.4	17	9.9	---	136	82	20	14	13	12	7.1
30	7.6	7.8	17	18	---	54	55	19	13	11	13	6.9
31	7.6	---	24	18	---	35	---	18	---	16	11	---
TOTAL	247.6	236.8	550.1	423.8	620.8	1053	878	1120	492	379.3	407.6	263.6
MEAN	7.99	7.89	17.7	13.7	22.2	34.0	29.3	36.1	16.4	12.2	13.1	8.79
MAX	17	11	134	23	128	136	87	183	28	28	22	21
MIN	5.8	7.2	7.6	9.9	9.9	18	20	18	13	8.8	9.4	6.9
CFSM	.80	.79	1.77	1.37	2.22	3.40	2.93	3.61	1.64	1.22	1.31	.88
IN.	.92	.88	2.05	1.58	2.31	3.92	3.27	4.17	1.83	1.41	1.52	.98
CAL YR 1990	TOTAL	11084.3	MEAN	30.4	MAX	831	MIN	2.2	CFSM	3.04	IN	41.27
WTR YR 1991	TOTAL	6672.6	MEAN	18.3	MAX	183	MIN	5.8	CFSM	1.83	IN	24.84

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.

PERIOD OF RECORD.--April 1939 to December 1943, May 1959 to September 1974, August 1986 to March 1991 (discontinued).

REVISED RECORDS.--WDR GA-90-1: 1986-89 (maximum only, 1988), drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,051.30 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 13-14. 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 (*) during period October 1990 to March 1991:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 23	1700	776	3.69	Mar. 29	1030	*894	*3.96

Minimum daily discharge, 8.1 ft³/s, Oct. 7.

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	9.0	10	12	49	30	70	47					
2	8.8	9.9	11	42	26	134	39					
3	8.2	9.8	28	39	23	101	---					
4	9.7	9.8	33	39	22	66	---					
5	10	12	21	36	21	49	---					
6	8.7	13	18	34	22	42	---					
7	8.1	11	16	36	21	39	---					
8	9.0	10	15	25	19	39	---					
9	8.8	16	14	23	19	37	---					
10	9.7	23	13	23	18	33	---					
11	12	17	13	54	18	32	---					
12	14	15	13	57	18	31	---					
13	11	14	13	41	21	59	---					
14	9.8	13	13	30	29	44	---					
15	9.0	12	12	26	22	37	---					
16	8.4	12	12	26	19	33	---					
17	8.2	12	13	23	24	32	---					
18	20	11	18	22	33	34	---					
19	12	11	24	22	103	31	---					
20	11	11	19	23	326	30	---					
21	9.3	11	18	21	98	29	---					
22	27	11	17	19	62	29	---					
23	31	11	182	18	66	29	---					
24	20	11	96	19	52	28	---					
25	16	11	44	19	44	27	---					
26	13	12	30	18	40	26	---					
27	12	14	37	18	35	26	---					
28	12	15	38	18	33	39	---					
29	11	16	34	18	---	319	---					
30	11	13	37	30	---	123	---					
31	10	---	82	39	---	66	---					
TOTAL	377.7	377.5	946	907	1264	1714	---					
MEAN	12.2	12.6	30.5	29.3	45.1	55.3	---					
MAX	31	23	182	57	326	319	---					
MIN	8.1	9.8	11	18	18	26	---					
CFSM	.57	.59	1.43	1.38	2.12	2.60	---					
IN.	.66	.66	1.65	1.58	2.21	2.99	---					

CAL YR 1990 TOTAL 17312.5 MEAN 47.4 MAX 1060 MIN 5.6 CFSM 2.23 IN 30.23

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. Datum of gage is 893.69 ft above National Geodetic Vertical Datum of 1929 (leveling by global positioning system equipment).

REMARKS.--Estimated discharges: Feb. 24, 25. Records good.

AVERAGE DISCHARGE.--17 years (water years 1975-91), 192 ft³/s, 21.91 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)
Dec. 23	1815	*4,050	*7.19	Mar. 29	1145	3,580	6.76
Feb. 20	0130	2,520	5.67	May 5	2245	2,560	5.71

Minimum daily discharge, 65 ft³/s, Sept. 23.

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	69	71	76	244	162	279	349	426	191	117	118	117
2	68	70	74	194	140	738	309	334	202	112	102	111
3	66	69	206	207	126	656	283	291	216	106	85	104
4	71	69	252	209	119	487	265	517	190	123	78	100
5	82	72	135	176	114	351	257	1270	183	141	76	99
6	70	84	106	157	119	306	240	1140	167	115	80	97
7	66	74	95	158	118	395	231	536	168	105	123	90
8	69	71	90	152	105	326	300	370	159	104	118	88
9	72	87	85	135	100	297	369	319	152	104	115	86
10	70	138	81	126	100	266	298	280	148	97	113	85
11	99	97	79	262	96	243	265	282	143	106	90	86
12	94	85	77	274	93	229	261	342	144	100	191	85
13	86	80	77	217	114	461	255	329	144	92	131	82
14	77	77	82	179	198	337	243	269	152	86	222	80
15	72	75	78	158	138	286	233	254	144	81	190	78
16	68	74	77	154	113	253	222	516	138	79	133	75
17	66	75	83	134	133	232	208	460	138	88	114	74
18	127	73	106	125	258	256	204	309	130	106	109	72
19	103	74	171	123	435	225	266	353	146	97	118	78
20	84	72	122	131	1810	207	238	269	219	93	161	78
21	78	71	121	118	610	200	221	242	192	85	109	71
22	143	70	106	107	389	197	209	235	158	81	98	68
23	222	71	1410	103	439	237	205	233	177	77	93	65
24	123	70	752	109	353	206	196	221	132	76	91	82
25	97	68	306	110	295	187	186	213	132	84	102	230
26	87	67	212	103	257	179	185	212	296	232	206	125
27	81	71	267	101	219	177	317	230	215	182	162	90
28	78	78	296	101	201	301	656	250	170	124	122	80
29	75	105	219	99	---	1850	915	223	143	105	127	76
30	73	81	188	162	---	809	645	206	124	95	176	72
31	72	---	347	235	---	450	---	195	---	92	140	---
TOTAL	2708	2339	6376	4863	7354	11623	9031	11326	5013	3285	3893	2724
MEAN	87.4	78.0	206	157	263	375	301	365	167	106	126	90.8
MAX	222	138	1410	274	1810	1850	915	1270	296	232	222	230
MIN	66	67	74	99	93	177	185	195	124	76	76	65
CFSM	.73	.66	1.73	1.32	2.21	3.15	2.53	3.07	1.40	.89	1.06	.76
IN.	.85	.73	1.99	1.52	2.30	3.63	2.82	3.54	1.57	1.03	1.22	.85
CAL YR 1990	TOTAL	106256	MEAN	291	MAX	6550	MIN	43	CFSM	2.45	IN	33.22
WTR YR 1991	TOTAL	70535	MEAN	193	MAX	1850	MIN	65	CFSM	1.62	IN	22.05

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 0.2 mi upstream at datum 2.00 ft higher.

REMARKS.--Estimated daily discharges: Apr. 3, 4. 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.--44 years (water years 1897-1908, 1919-23, 1962-71, 1975-91), 1,188 ft³/s, 30.97 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, 4,730 ft³/s, Apr. 4, gage height, 12.09 ft; minimum daily discharge, 320 ft³/s, Oct. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	320	613	493	1580	873	1090	4210	2620	1360	843	669	1460
2	435	685	480	1540	885	1100	4420	2640	1350	856	684	1340
3	712	851	477	1620	889	1080	4300	2420	1280	1060	662	1330
4	998	853	591	2060	885	1580	4400	1960	1410	1280	614	1310
5	1020	853	687	1920	881	2480	3650	2470	1480	1290	668	1350
6	1050	856	934	1820	882	2420	2870	2680	1480	1400	680	1180
7	1070	853	1140	1290	883	2490	2110	2810	1440	1460	692	518
8	1090	872	1060	1130	802	2290	1390	3180	1290	1430	586	472
9	1060	866	1010	1160	721	1580	868	3250	1300	1410	494	491
10	1070	877	1050	1140	734	986	854	3210	1050	1320	544	507
11	1070	846	1110	1070	728	929	1020	2640	700	1050	516	527
12	1070	693	1100	719	720	960	1190	2470	699	935	705	548
13	1080	624	1070	692	641	1190	1340	2580	683	833	882	571
14	1170	656	888	978	577	1290	1280	2640	719	828	716	543
15	1170	659	753	1470	570	1340	1510	2620	718	876	775	498
16	1150	697	713	1590	589	1370	1700	2510	695	945	865	464
17	1070	693	686	1620	603	1500	1730	2580	677	1100	835	627
18	1020	666	701	1400	608	1550	1740	1760	682	1130	736	735
19	1010	706	738	790	800	1680	1940	910	677	1150	582	733
20	1030	747	699	785	1150	1660	2070	672	677	1050	560	724
21	741	755	711	825	1300	1620	2030	711	677	1100	570	721
22	640	743	717	1130	1460	1370	2210	995	666	1090	630	717
23	593	706	1210	1620	1680	1180	1870	1320	647	1080	682	761
24	583	655	2070	1630	1650	1150	1370	1480	662	1100	666	770
25	571	622	1590	1580	1660	1200	882	1600	714	1110	636	786
26	564	583	1600	965	1710	1350	913	1500	829	1110	628	778
27	554	551	1600	781	1400	1420	902	1020	891	1110	937	766
28	554	519	1550	787	1150	1500	907	1150	903	1060	1260	728
29	649	464	1470	887	---	2180	1150	1320	898	1180	1300	707
30	750	489	1510	882	---	2910	1850	1280	865	1100	1340	772
31	701	---	1520	882	---	3190	---	1300	---	658	1440	---
TOTAL	26565	21253	31928	38343	27431	49635	58676	62298	28119	33944	23554	23434
MEAN	857	708	1030	1237	980	1601	1956	2010	937	1095	760	781
MAX	1170	877	2070	2060	1710	3190	4420	3250	1480	1460	1440	1460
MIN	320	464	477	692	570	929	854	672	647	658	494	464
MEAN†	624	499	1502	1193	1711	2098	1746	1975	1063	1113	579	581
CFSM†	1.20	.96	2.88	2.29	3.28	4.03	3.35	3.79	2.04	2.14	1.11	1.12
IN†	1.38	1.07	3.32	2.64	3.42	4.64	3.74	4.37	2.28	2.46	1.28	1.24

CAL YR 1990 TOTAL 645515 MEAN 1769 MAX 6580 MIN 263 MEAN† 1706 CFSM† 3.27 IN† 44.47
WTR YR 1991 TOTAL 425180 MEAN 1165 MAX 4420 MIN 320 MEAN† 1223 CFSM† 2.35 IN† 31.88

†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: Jan. 3, Jan. 7-22, May 19-22, May 27, 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.--53 years, 1,494 ft³/s, 24.41 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, 8,060 ft³/s, Mar. 30, gage height, 21.96 ft; minimum daily discharge, 422 ft³/s, Oct. 1.

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	422	634	563	2530	1380	1770	4950	3540	1590	1090	866	1650
2	432	645	548	2300	1310	3090	4890	3340	1610	1090	880	1530
3	698	861	656	2150	1270	3400	4540	2980	1510	1170	831	1500
4	1080	884	1070	2630	1240	2890	4470	2940	1570	1440	765	1470
5	1160	901	948	2680	1220	3550	4090	4560	1680	1540	763	1490
6	1180	895	940	2400	1220	3230	3440	5710	1660	1580	785	1470
7	1180	882	1350	2000	1210	3360	2770	5030	1650	1610	796	845
8	1240	914	1230	1700	1160	3080	2080	4090	1490	1610	814	650
9	1190	962	1160	1600	1030	2570	1900	3940	1500	1570	597	698
10	1190	1160	1100	1550	1010	1680	1670	3640	1390	1500	671	645
11	1190	1070	1250	2250	1000	1430	1490	3180	968	1390	634	647
12	1190	880	1200	2250	962	1420	1690	2950	922	1140	973	664
13	1190	689	1180	1850	979	1920	1790	2960	946	1030	1360	692
14	1240	686	1100	1450	1120	2150	1720	2960	1560	975	966	693
15	1300	698	839	1800	996	1930	1740	2950	1090	1000	1030	634
16	1260	715	800	1950	880	1950	2060	2750	994	1040	1050	576
17	1240	746	767	2050	921	1890	2020	3050	957	1180	1020	655
18	1500	708	836	1950	1330	2090	2050	2360	947	1230	907	846
19	1210	688	1170	1500	1950	2050	2230	1700	986	1310	783	867
20	1130	780	1010	1100	6630	2070	2450	1200	1130	1300	772	844
21	979	784	1000	1250	5580	1950	2390	1050	1020	1220	782	852
22	816	777	926	1250	3060	1470	2420	1150	955	1220	742	828
23	1380	776	4110	1870	3790	1720	2290	1560	923	1200	776	866
24	833	726	7090	1920	3710	1590	1810	1710	877	1190	805	897
25	686	690	3130	1940	2930	1510	1350	1770	939	1250	750	1010
26	629	660	2370	1490	2650	1650	1180	1850	1310	1250	735	1100
27	605	632	2480	1090	2300	1700	1250	1400	1480	1270	857	984
28	577	609	2970	1050	1840	2160	2530	1350	1290	1210	1380	891
29	625	598	2320	1150	---	5300	3200	1580	1260	1230	1430	854
30	752	578	2150	1260	---	7760	3580	1600	1160	1380	1610	863
31	805	---	2710	1550	---	5410	---	1520	---	902	1620	---
TOTAL	30909	23228	50973	55510	54678	79740	76040	82370	37364	39117	28750	28211
MEAN	997	774	1644	1791	1953	2572	2535	2657	1245	1262	927	940
MAX	1500	1160	7090	2680	6630	7760	4950	5710	1680	1610	1620	1650
MIN	422	578	548	1050	880	1420	1180	1050	877	902	597	576

CAL YR 1990 TOTAL 888164 MEAN 2433 MAX 16000 MIN 422 MEAN† 2370 CFSM† 2.85 IN† 38.73
WTR YR 1991 TOTAL 586890 MEAN 1608 MAX 7760 MIN 422 MEAN† 1666 CFSM† 2.00 IN† 27.23

†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 1990 TO SEPTEMBER 1991

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 30...	1045	740	60	60	7.5	7.3	13.0	15.0	9.6	92
NOV 27...	1150	634	70	68	7.5	7.2	14.0	23.0	10.0	99
DEC 19...	1030	1230	95	94	7.3	7.2	12.0	11.0	9.4	89
JAN 28...	1030	1050	77	77	—	7.2	7.0	10.5	11.6	98
FEB 26...	1130	2660	81	94	7.0	7.0	9.5	13.0	10.6	95
MAR 26...	0940	1680	73	69	7.3	7.2	14.0	18.0	10.2	101
APR 23...	0800	2440	54	51	7.6	7.2	14.0	14.0	10.0	100
MAY 28...	0815	1370	73	71	7.3	7.3	21.0	25.0	8.5	97
JUN 25...	1015	938	80	80	7.4	7.3	23.5	21.5	7.2	86
JUL 30...	0820	1420	57	55	—	7.0	27.0	18.0	8.5	92
AUG 27...	0815	801	77	73	7.5	7.3	24.0	25.0	8.0	97
SEP 25...	0915	988	—	58	—	7.1	21.0	20.5	7.7	—

MOBILE RIVER BASIN

02383540 COOSAWATTEE RIVER NEAR CALHOUN, GA.--Continued

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)	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 30...	7.0	0.9	130	24	21	0.220	<0.030	0.050	<1.0
NOV 27...	4.0	1.2	50	37	24	0.190	<0.030	0.070	1.8
DEC 19...	23	--	800	36	31	0.230	0.040	0.120	5.9
JAN 28...	4.0	0.5	80	34	28	0.390	0.030	0.060	5.2
FEB 26...	28	0.3	790	32	28	0.420	0.160	0.090	4.1
MAR 26...	11	0.1	70	30	24	0.280	<0.030	<0.020	4.0
APR 23...	9.0	0.5	20	26	17	0.230	0.030	0.080	1.7
MAY 28...	8.0	0.7	130	30	29	0.290	0.030	0.060	3.8
JUN 25...	38	0.9	260	32	29	0.240	<0.030	0.020	2.5
JUL 30...	10	0.8	80	26	20	0.150	<0.030	0.030	1.8
AUG 27...	9.0	0.2	110	34	29	0.220	<0.030	0.030	3.3
SEP 25...	7.0	0.7	460	28	22	0.200	<0.030	0.030	2.5

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.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--10 years (water years 1982-91), 481 ft³/s, 25.92 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)
Dec. 24	0900	*13,600	*15.79	Mar. 30	1500	5,290	12.33
Feb. 20	2300	8,810	14.07	May 6	2100	4,290	11.61

Minimum discharge, 52 ft³/s, Oct. 17, minimum gage height, 2.42 ft, Sept. 24.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	139	236	1850	434	563	840	2080	215	370	168	184
2	81	132	204	958	377	1020	669	947	210	309	156	157
3	73	126	315	829	347	2030	569	689	205	267	140	138
4	74	123	829	782	328	2320	504	842	207	241	128	126
5	82	127	555	646	312	1160	727	2770	213	264	150	117
6	86	171	384	578	304	894	825	3960	188	245	144	111
7	66	178	317	556	311	872	627	2480	172	211	133	105
8	74	137	273	595	288	834	587	958	162	192	123	101
9	99	233	236	535	273	808	836	758	155	184	142	96
10	95	850	210	563	263	672	855	642	150	178	235	93
11	76	586	199	1810	253	591	680	570	144	279	179	89
12	82	393	181	1710	240	545	579	545	146	288	151	87
13	77	310	172	1050	286	772	559	497	309	198	182	87
14	70	258	188	805	928	702	508	453	671	166	170	83
15	62	224	197	677	710	577	474	418	356	176	159	81
16	58	201	188	675	494	506	435	561	240	241	148	80
17	55	188	202	586	495	464	389	777	257	248	130	78
18	425	179	365	507	1680	544	363	466	224	222	121	74
19	582	164	1200	535	3360	504	796	416	189	288	128	88
20	261	154	725	501	7250	448	797	508	191	238	145	84
21	178	147	599	454	6660	419	603	380	286	205	158	97
22	433	140	518	401	2120	399	504	342	321	181	119	77
23	1560	140	3430	374	1390	402	448	323	305	159	108	71
24	711	144	10700	360	1060	458	399	313	240	146	102	96
25	415	132	4000	344	835	400	356	287	225	166	100	220
26	312	125	989	322	787	372	329	269	1820	229	158	227
27	251	122	859	313	666	350	362	256	1330	201	478	141
28	210	147	1250	315	592	1050	1010	277	1100	183	241	107
29	183	489	1100	302	---	1930	1500	296	709	369	180	94
30	162	309	959	320	---	4560	2890	258	484	284	183	87
31	150	---	2220	516	---	1870	---	231	---	202	222	---
TOTAL	7129	6768	33800	20769	33043	29036	21020	24569	11424	7130	5081	3276
MEAN	230	226	1090	670	1180	937	701	793	381	230	164	109
MAX	1560	850	10700	1850	7250	4560	2890	3960	1820	370	478	227
MIN	55	122	172	302	240	350	329	231	144	146	100	71
CFM	.91	.90	4.33	2.66	4.68	3.72	2.78	3.15	1.51	.91	.65	.43
IN.	1.05	1.00	4.99	3.07	4.88	4.29	3.10	3.63	1.69	1.05	.75	.48
CAL YR 1990	TOTAL 275841		MEAN 756		MAX 17400		MIN 55		CFM 3.00 IN. 40.72			
WTR YR 1991	TOTAL 203045		MEAN 556		MAX 10700		MIN 55		CFM 2.21 IN. 29.97			

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.--Estimated daily discharges: Oct. 12-17, 30-31, Nov. 1-3, 13-15, 30, Dec. 1, and May 2 to June 5. Records good to fair, except those for the period affected by beaverdams, Oct. 1 to Dec. 21, which are poor.

AVERAGE DISCHARGE.--6 years, 20.1 ft³/s, 33.01 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)
Dec. 23	1045	*1,180	*5.48	Mar. 29	1130	355	3.64
Feb. 19	2345	434	3.88	Apr. 29	1345	311	3.49

Minimum daily discharge, 2.1 ft³/s, Aug. 8, Sept. 18 and 23.

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	2.8	11	8.0	51	18	22	32	65	6.8	15	3.3	11
2	3.0	11	16	37	16	36	25	42	6.4	12	3.2	7.9
3	3.0	11	20	35	14	59	21	32	6.5	10	2.8	6.3
4	6.6	12	18	30	13	78	19	37	7.9	10	2.4	5.4
5	6.4	15	11	28	12	48	29	76	7.2	10	2.7	4.7
6	4.1	12	8.4	25	12	47	30	83	6.2	8.3	2.3	4.3
7	4.3	11	8.2	24	12	47	25	47	5.6	7.5	2.2	4.0
8	6.9	11	6.7	24	11	45	43	34	5.2	7.1	2.1	3.7
9	6.0	16	5.5	22	11	42	81	28	4.9	6.6	7.3	3.3
10	4.8	21	4.7	23	10	38	50	23	4.7	6.8	6.9	3.1
11	7.8	16	4.4	51	10	32	37	21	4.5	8.2	4.8	2.9
12	6.0	12	5.7	52	9.6	22	31	21	6.5	6.9	6.2	3.0
13	5.0	9.0	6.2	41	12	23	26	19	8.3	5.6	6.7	2.9
14	4.3	7.0	7.6	34	28	22	22	17	20	4.8	5.5	3.2
15	4.0	6.0	6.7	28	24	21	22	16	9.5	4.7	4.7	2.8
16	3.8	4.8	6.5	22	19	19	20	20	7.3	6.7	3.7	2.4
17	3.6	4.8	6.2	19	21	18	19	18	7.4	6.0	3.2	2.4
18	22	4.9	8.2	17	67	18	17	16	6.8	8.5	2.9	2.1
19	10	6.5	27	16	159	18	55	16	7.3	6.2	4.0	7.3
20	8.4	5.2	26	16	265	17	47	14	12	5.0	6.2	3.7
21	8.5	4.9	19	15	92	17	33	13	20	4.3	3.4	2.7
22	44	4.7	17	14	51	16	27	12	32	3.8	2.9	2.3
23	49	5.3	527	12	41	21	23	11	17	3.4	2.6	2.1
24	29	5.2	154	12	32	22	21	10	13	3.1	2.5	7.9
25	24	5.6	54	11	29	21	19	9.2	12	3.4	4.7	11
26	19	5.8	34	11	25	20	18	8.3	127	7.2	20	6.8
27	16	6.3	28	10	22	18	25	9.6	64	8.0	12	4.4
28	14	12	40	10	21	32	53	11	43	5.1	8.1	3.4
29	13	15	41	9.7	---	195	175	9.8	28	4.5	10	3.0
30	12	12	41	12	---	90	114	8.6	19	3.8	9.6	2.7
31	12	---	97	20	---	45	---	7.7	---	3.8	10	---
TOTAL	363.3	284.0	1263.0	731.7	1056.6	1169	1159	755.2	526.0	206.3	168.9	132.7
MEAN	11.7	9.47	40.7	23.6	37.7	37.7	38.6	24.4	17.5	6.65	5.45	4.42
MAX	49	21	527	52	265	195	175	83	127	15	20	11
MIN	2.8	4.7	4.4	9.7	9.6	16	17	7.7	4.5	3.1	2.1	2.1
CFSM	1.42	1.15	4.92	2.85	4.56	4.56	4.67	2.95	2.12	.80	.66	.53
IN.	1.63	1.28	5.68	3.29	4.75	5.26	5.21	3.40	2.37	.93	.76	.60

CAL YR 1990	TOTAL	11795.86	MEAN	32.3	MAX	970	MIN	.96	CFSM	3.91	IN	53.05
WTR YR 1991	TOTAL	7815.70	MEAN	21.4	MAX	527	MIN	2.1	CFSM	2.59	IN	35.15

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 1990 TO SEPTEMBER 1991

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 30...	0830	165	120	120	7.7	7.6	10.5	7.0	8.9	81
NOV 27...	1350	105	137	140	7.7	7.8	13.5	25.0	10.1	99
DEC 19...	0830	1350	130	127	7.6	7.4	13.0	14.0	8.8	86
JAN 28...	0830	330	121	129	--	7.5	7.0	7.5	11.4	97
FEB 26...	1340	1000	100	96	7.5	7.3	10.0	19.0	11.3	102
MAR 26...	0800	380	106	104	7.7	7.5	14.0	12.0	9.3	92
APR 23...	0600	500	93	89	7.5	7.4	14.0	12.0	10.4	104
MAY 28...	0615	240	125	122	7.9	7.6	22.5	23.0	7.7	91
JUN 25...	1230	210	113	110	7.6	7.7	22.5	23.5	7.7	90
JUL 30...	0630	300	110	104	7.2	7.3	22.0	19.0	7.4	82
AUG 27...	0630	430	120	114	7.7	7.5	24.0	22.0	7.3	88
SEP 25...	0730	130	--	138	--	7.5	19.0	18.5	7.2	--

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)	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 30...	6.0	0.8	170	56	50	6	0.180	<0.030	0.050	1.3
NOV 27...	6.0	1.3	130	--	60	7	0.050	E0.030	0.060	3.1
DEC 19...	66	--	4900	54	49	97	0.160	0.030	0.120	8.5
JAN 28...	4.0	0.1	80	60	51	3	0.310	<0.030	0.040	3.3
FEB 26...	11	<0.1	130	48	39	15	0.340	<0.030	0.060	3.2
MAR 26...	7.0	0.3	80	24	43	11	0.180	<0.030	0.040	4.5
APR 23...	8.0	0.4	790	42	37	10	0.240	<0.030	0.090	2.0
MAY 28...	12	0.4	330	60	55	17	0.340	0.040	0.090	2.6
JUN 25...	15	0.2	330	50	47	21	0.230	<0.030	0.620	2.5
JUL 30...	36	1.2	2200	50	44	47	0.290	0.030	0.080	3.6
AUG 27...	33	0.7	460	54	51	77	0.150	<0.030	0.040	4.8
SEP 25...	40	1.0	4900	64	58	38	0.220	0.030	0.030	3.2

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 Smyrna-Ramhurst Road, 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.--WDR GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 689.25 ft above National Geodetic Vertical Datum of 1929 (leveling by global positioning system equipment).

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.--31 years, 124 ft³/s, 26.31 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)
Dec. 23	1900	*9,150	*12.05	Mar. 29	2300	2,420	9.05
Feb. 20	1000	3,190	9.47	Apr. 30	0400	1,900	8.74

Minimum daily discharge, 6.7 ft³/s, Oct. 3.

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	8.0	27	43	391	123	146	228	507	45	58	44	35
2	7.1	26	38	220	103	388	177	244	45	51	54	28
3	6.7	26	173	224	94	470	149	177	42	46	31	24
4	9.6	25	280	205	87	435	131	365	50	64	26	21
5	15	28	121	157	83	247	268	1110	43	80	26	20
6	9.6	41	88	136	85	192	234	1170	38	50	22	19
7	7.9	29	74	138	82	200	165	440	39	43	23	17
8	21	26	64	145	77	209	270	232	36	40	22	16
9	17	70	56	130	72	182	983	179	34	39	29	16
10	11	159	51	140	70	151	455	147	32	37	62	14
11	22	73	48	695	67	132	237	210	30	104	33	13
12	15	52	46	642	64	122	193	179	31	53	30	14
13	12	43	45	319	89	202	169	134	35	41	43	14
14	9.6	39	50	212	195	153	146	113	60	35	40	13
15	8.7	35	46	171	115	129	132	98	41	32	36	16
16	7.7	33	45	163	89	113	120	131	35	31	27	13
17	7.2	33	48	132	106	105	109	135	39	31	25	14
18	636	31	91	115	354	132	104	161	52	39	24	13
19	127	29	274	108	856	109	268	99	38	37	25	17
20	45	29	129	109	2490	101	160	84	38	32	33	18
21	32	28	99	99	1050	95	134	77	118	31	24	13
22	282	28	84	91	449	93	117	71	390	26	20	11
23	564	29	3720	86	483	181	107	69	89	23	20	10
24	114	29	2820	84	295	124	100	66	55	23	19	25
25	66	26	566	81	212	102	92	60	48	33	26	69
26	50	25	238	77	186	94	86	56	586	51	94	34
27	42	25	250	75	151	89	164	58	312	56	57	20
28	37	48	330	76	132	226	401	63	151	35	37	17
29	33	124	256	72	---	1310	1170	55	100	40	38	14
30	30	54	217	131	---	1330	1450	59	72	30	43	13
31	28	---	662	193	---	401	---	47	---	27	37	---
TOTAL	2281.1	1270	11052	5617	8259	7963	8519	6596	2724	1318	1070	581
MEAN	73.6	42.3	357	181	295	257	284	213	90.8	42.5	34.5	19.4
MAX	636	159	3720	695	2490	1330	1450	1170	586	104	94	69
MIN	6.7	25	38	72	64	89	86	47	30	23	19	10
CFSM	1.15	.66	5.58	2.83	4.61	4.02	4.44	3.33	1.42	.66	.54	.30
IN.	1.33	.74	6.42	3.26	4.80	4.63	4.95	3.83	1.58	.77	.62	.34
CAL YR 1990	TOTAL	79134.4	MEAN	217	MAX	9890	MIN	5.5	CFSM	3.39	IN	46.00
WTR YR 1991	TOTAL	57250.1	MEAN	157	MAX	3720	MIN	6.7	CFSM	2.45	IN	33.28

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.--No estimated daily discharges. Records good, except those for the periods Dec. 23-28, Jan. 2, 13, Feb. 20-25, Mar. 3-6, 29-31, Apr. 1-2, 28-30, and May 1-9, which are good to fair. Flow affected by withdrawals and return flow by the city of Dalton, Ga.

AVERAGE DISCHARGE.--54 years, 1,213 ft³/s, 23.98 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)
Dec. 25	2400	*15,600	*22.92	Mar. 31	1800	7,290	16.87
Jan. 12	2000	5,010	12.35	May 1	1700	5,800	13.99
Feb. 22	0900	14,200	22.10	May 7	1400	7,340	16.74
Mar. 5	0200	5,410	13.26				

Minimum daily discharge, 144 ft³/s, Sept. 18.

MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, 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	243	332	632	4710	1420	1530	4710	5650	551	865	371	399
2	200	315	518	3620	1120	2890	1940	4040	598	694	338	331
3	182	311	766	2140	980	3820	1590	1920	625	621	336	279
4	188	323	1930	2240	901	5050	1380	2240	562	573	291	227
5	257	315	1840	1880	826	4780	1380	5670	663	715	273	201
6	230	319	1080	1610	786	2620	2340	6980	546	682	252	193
7	240	343	795	1470	794	2210	1790	7260	492	576	269	197
8	234	323	688	1530	751	2090	1570	5280	465	464	293	306
9	230	490	598	1530	727	2240	2740	2190	457	404	273	219
10	272	1810	532	1380	691	1900	3220	1770	434	373	293	183
11	288	2050	461	3100	663	1580	2380	1560	397	487	424	166
12	248	1220	436	4800	606	1420	1710	1760	379	648	335	165
13	241	777	404	4190	656	1730	1590	1540	401	609	320	161
14	239	610	419	2350	1700	2200	1470	1290	886	476	350	160
15	228	513	454	1800	2230	1670	1350	1130	1390	367	359	152
16	172	459	475	1700	1460	1400	1200	1090	863	385	303	153
17	152	440	478	1630	1110	1260	1060	1490	973	470	278	155
18	944	424	579	1410	2520	1410	957	1460	926	520	272	144
19	2130	410	1730	1260	5770	1520	2150	1100	640	487	312	247
20	958	360	2400	1230	9530	1280	2630	1010	525	476	307	321
21	489	340	1580	1260	12100	1110	1780	957	539	402	279	194
22	1440	335	1290	1060	13800	1040	1430	809	1020	361	273	209
23	4030	348	5170	916	10600	1180	1210	745	1090	305	231	188
24	3160	351	10200	861	5580	1350	1060	730	759	354	216	233
25	1250	342	14600	837	2920	1200	935	702	625	597	234	691
26	782	316	14200	786	2220	988	837	661	2130	399	406	600
27	612	283	7530	759	1920	889	1010	640	4500	564	508	414
28	523	309	3230	768	1650	1380	2620	681	2920	469	700	294
29	463	763	3390	738	---	4120	4200	694	1920	390	399	250
30	387	984	2700	988	---	6130	5130	661	1210	635	353	223
31	350	---	3460	1730	---	7150	---	609	---	517	358	---
TOTAL	21362	16515	84565	56283	86031	71137	59369	64319	29486	15885	10206	7655
MEAN	689	551	2728	1816	3073	2295	1979	2075	983	512	329	255
MAX	4030	2050	14600	4800	13800	7150	5130	7260	4500	865	700	691
MIN	152	283	404	738	606	889	837	609	379	305	216	144
CFSM	1.00	.80	3.97	2.64	4.47	3.34	2.88	3.02	1.43	.75	.48	.37
IN.	1.16	.89	4.58	3.05	4.66	3.85	3.21	3.48	1.60	.86	.55	.41
CAL YR 1990	TOTAL	710538	MEAN	1947	MAX	32800	MIN	94	CFSM	2.83	IN	38.47
WTR YR 1991	TOTAL	522813	MEAN	1432	MAX	14600	MIN	144	CFSM	2.08	IN	28.31

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, 318 microsiemens Sept. 19; minimum, 54 microsiemens Dec. 25, 26.

pH: Maximum recorded, 8.3 units Feb. 12; minimum, 6.9 units Dec. 24, 25, 26.

WATER TEMPERATURE: Maximum recorded, 30.0°C July 23; minimum, 3.5°C Jan 26.

DISSOLVED OXYGEN: Maximum recorded, 12.7 mg/L Feb. 12; minimum recorded, 4.1 mg/L Sept. 20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 30...	0900	391	178	181	7.6	7.4	10.5	10.5	9.4	85
NOV 27...	1300	280	208	207	7.7	7.5	13.0	23.0	9.6	93
DEC 19...	0900	1430	190	194	7.3	7.5	12.0	14.0	9.0	85
JAN 28...	0915	769	150	156	7.9	7.6	6.0	8.0	11.8	97
FEB 26...	1240	2210	120	119	7.5	7.3	10.5	14.0	10.7	98
MAR 26...	0830	1000	152	155	7.6	7.4	16.5	14.0	8.6	87
APR 23...	0650	1250	135	133	7.7	7.4	14.0	12.0	9.0	90
MAY 28...	0710	684	175	176	7.5	7.4	23.0	23.5	6.8	81
JUN 25...	1140	600	171	169	7.4	7.6	23.5	23.5	6.3	76
JUL 30...	0720	614	192	--	7.5	7.4	25.5	20.0	5.9	66
AUG 27...	0715	400	190	190	7.4	7.5	24.0	24.0	5.5	76
SEP 25...	0815	786	208	216	7.5	7.2	20.0	21.0	6.0	--

MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CaCO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)
OCT 30...	12	11	0.9	490	68	59	7
NOV 27...	11	11	1.8	700	90	76	11
DEC 19...	60	22	—	4100	80	67	71
JAN 28...	6.0	14	0.5	230	76	62	4
FEB 26...	22	6	0.2	490	50	43	29
MAR 26...	18	15	0.2	1700	66	51	20
APR 23...	15	10	0.9	1100	70	49	20
MAY 28...	18	7	0.7	490	66	63	28
JUN 25...	36	19	0.7	490	69	57	42
JUL 30...	35	16	1.2	790	74	66	63
AUG 27...	100	20	1.0	2300	76	66	74
SEP 25...	240	39	3.6	92000	74	57	142

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 30...	0.520	0.100	0.30	0.40	0.92	0.410	2.5
NOV 27...	0.740	0.140	0.26	0.40	1.1	0.520	3.5
DEC 19...	0.490	0.100	0.20	0.30	0.79	0.390	12
JAN 28...	0.510	0.040	0.16	0.20	0.71	0.120	7.4
FEB 26...	0.420	<0.030	--	0.40	0.82	0.150	4.3
MAR 26...	0.390	0.490	0.41	0.90	1.3	0.270	25
APR 23...	0.120	0.100	0.20	0.30	0.42	0.300	3.2
MAY 28...	0.640	0.060	0.24	0.30	0.94	0.440	8.2
JUN 25...	0.560	0.040	0.56	0.60	1.2	0.480	3.7
JUL 30...	0.580	0.110	0.39	0.50	1.1	0.730	4.7
AUG 27...	0.400	0.040	0.26	0.30	0.70	0.520	7.8
SEP 25...	1.25	0.340	0.36	0.70	2.0	1.04	8.0

MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, 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	269	243	196	184	188	175	115	84	157	148	120	117
2	273	257	204	196	177	171	103	88	147	138	126	115
3	281	271	205	197	199	172	120	102	150	141	115	106
4	282	273	208	198	191	149	126	121	153	145	105	95
5	286	276	212	203	152	129	132	127	160	147	103	96
6	293	272	229	205	138	130	136	132	165	159	108	102
7	276	259	224	206	147	138	141	134	171	162	115	108
8	271	253	214	200	160	148	148	142	169	163	120	115
9	290	260	218	191	168	159	152	148	176	165	122	119
10	288	243	220	164	173	162	153	148	175	168	127	123
11	260	240	164	144	180	173	155	126	176	169	128	125
12	278	255	148	144	191	177	126	99	178	171	134	127
13	274	264	152	145	197	186	104	98	183	173	148	132
14	265	256	161	147	199	186	110	103	192	156	147	135
15	262	246	169	160	201	189	119	110	154	139	143	128
16	260	249	178	167	205	189	133	120	139	118	139	130
17	285	258	190	180	206	197	143	132	125	118	142	136
18	258	162	196	185	207	198	145	142	142	125	153	141
19	154	118	201	192	208	163	146	143	123	94	153	142
20	122	109	203	197	160	136	153	147	93	74	158	150
21	117	108	210	200	139	134	152	146	74	63	151	147
22	129	89	209	199	153	138	150	146	65	60	159	150
23	115	106	210	201	153	97	146	143	91	66	161	150
24	107	92	205	200	97	67	147	142	107	92	161	147
25	117	103	204	199	67	54	151	142	113	107	169	159
26	128	116	206	201	70	54	146	143	115	113	165	155
27	145	127	217	203	107	72	150	147	117	113	160	150
28	156	146	221	212	119	109	166	150	119	117	189	154
29	169	157	232	182	122	119	172	166	---	---	152	106
30	178	170	183	175	120	115	187	169	---	---	103	67
31	184	175	---	---	128	116	176	155	---	---	72	64
MONTH	293	89	232	144	208	54	187	84	192	60	189	64

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

[illegible]

MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

PH (STANDARD UNITS), 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	7.5	7.5	7.7	7.7	7.7	7.7	—	—	7.8	7.7	7.8	7.7
2	7.5	7.5	7.7	7.7	7.7	7.7	—	—	7.8	7.8	7.8	7.6
3	7.6	7.5	7.7	7.6	7.7	7.6	7.6	7.4	7.8	7.7	7.7	7.5
4	7.5	7.4	7.7	7.7	7.6	7.6	7.6	7.6	7.8	7.8	7.5	7.4
5	7.5	7.4	7.7	7.6	7.7	7.6	7.6	7.6	7.8	7.8	7.5	7.4
6	7.5	7.4	7.7	7.6	7.6	7.6	7.6	7.6	7.8	7.7	7.5	7.5
7	7.5	7.5	7.6	7.6	7.6	7.6	7.6	7.6	7.8	7.7	7.6	7.5
8	7.6	7.5	7.6	7.6	7.6	7.6	7.6	7.6	7.9	7.8	7.6	7.6
9	7.5	7.4	7.6	7.4	7.6	7.6	7.7	7.6	7.9	7.9	7.7	7.6
10	7.5	7.4	7.6	7.5	7.6	7.6	7.7	7.6	8.1	7.9	7.7	7.7
11	7.6	7.5	7.5	7.5	7.6	7.6	7.6	7.5	8.1	7.9	7.7	7.7
12	7.6	7.5	7.5	7.5	7.6	7.6	7.5	7.4	8.3	7.9	7.7	7.6
13	7.5	7.5	7.5	7.5	7.6	7.6	7.5	7.4	8.2	7.8	7.7	7.6
14	7.6	7.5	7.6	7.5	7.6	7.6	7.6	7.5	7.8	7.8	7.7	7.6
15	7.6	7.5	7.6	7.6	7.7	7.6	7.7	7.6	7.8	7.8	7.7	7.6
16	7.6	7.6	7.6	7.6	7.7	7.6	7.7	7.7	7.8	7.8	7.7	7.6
17	7.6	7.5	7.6	7.6	7.7	7.7	7.7	7.7	7.9	7.8	7.7	7.7
18	7.6	7.3	7.7	7.6	7.7	7.7	7.7	7.7	7.9	7.7	7.8	7.7
19	7.4	7.3	7.7	7.7	7.7	7.7	7.7	7.7	---	---	7.8	7.7
20	7.4	7.3	7.7	7.7	7.7	7.6	7.7	7.7	---	---	7.8	7.7
21	7.5	7.4	7.8	7.7	7.6	7.6	7.9	7.7	---	---	7.8	7.7
22	7.6	7.2	7.8	7.7	7.7	7.6	7.9	7.9	---	---	7.8	7.7
23	7.3	7.2	7.7	7.6	7.7	7.3	7.9	7.9	---	---	7.7	7.6
24	7.3	7.2	7.8	7.7	7.3	6.9	7.9	7.9	---	---	7.7	7.6
25	7.5	7.3	7.8	7.7	7.1	6.9	8.0	7.9	7.6	7.4	7.8	7.7
26	7.6	7.5	7.9	7.7	7.1	6.9	8.0	7.9	7.7	7.6	7.7	7.7
27	7.6	7.6	7.8	7.7	7.3	7.1	8.0	7.9	7.8	7.7	7.7	7.7
28	7.7	7.6	7.8	7.6	7.5	7.3	7.9	7.9	7.8	7.8	7.7	7.6
29	7.7	7.7	7.6	7.5	7.5	7.5	7.9	7.9	---	---	7.6	7.3
30	7.8	7.7	7.7	7.6	7.5	7.4	7.9	7.7	---	---	7.3	7.2
31	7.8	7.7	---	---	7.6	7.5	7.8	7.7	---	---	7.2	7.1
MONTH	7.8	7.2	7.9	7.4	7.7	6.9	8.0	7.4	8.3	7.4	7.8	7.1

PH (STANDARD UNITS), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[illegible]

MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

TEMPERATURE, WATER (DEG. 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	22.0	21.0	12.5	11.0	10.0	9.0	11.0	8.5	8.5	7.5	10.5	8.5
2	21.5	20.0	13.0	11.5	10.0	9.0	9.0	8.0	7.5	6.5	13.5	10.5
3	21.5	20.0	13.5	12.0	12.5	10.0	9.0	9.0	7.5	6.5	14.5	13.5
4	22.0	21.0	14.0	12.5	12.5	11.0	9.0	8.5	8.5	7.0	13.5	10.5
5	21.5	20.0	14.0	13.5	10.5	8.5	9.0	8.5	9.5	8.0	10.0	9.0
6	21.0	19.5	14.0	13.0	8.5	7.5	10.0	9.0	11.0	9.5	11.0	9.5
7	20.5	19.5	13.0	11.5	7.5	7.0	11.5	10.5	11.0	10.5	12.5	11.0
8	21.0	20.5	13.0	11.5	7.5	6.5	11.5	11.0	11.0	10.0	12.5	11.5
9	22.5	20.5	12.0	11.0	7.0	6.0	11.0	10.5	10.0	9.0	11.0	10.0
10	21.5	20.5	11.0	10.5	7.0	5.5	10.5	10.0	10.0	8.5	10.0	9.0
11	20.5	19.0	10.5	10.0	7.0	5.5	10.5	10.0	10.0	9.0	10.5	8.5
12	19.5	18.5	10.5	9.5	7.5	6.0	10.5	10.0	9.5	8.0	11.5	10.0
13	20.0	19.0	11.0	10.0	8.5	7.0	10.0	8.5	9.5	8.5	12.5	11.0
14	20.0	18.5	11.0	9.5	9.5	8.5	8.5	7.0	10.0	9.0	12.5	11.5
15	19.5	18.0	11.0	9.5	10.0	9.0	7.0	6.5	9.0	6.5	12.5	11.0
16	20.0	18.0	11.5	10.0	10.5	10.0	8.0	7.0	6.5	4.5	12.5	11.0
17	20.0	18.0	11.5	10.5	11.0	10.5	9.0	8.0	4.5	4.0	12.5	11.5
18	20.0	18.5	11.0	10.0	12.5	11.0	9.0	8.5	5.5	4.0	13.0	11.5
19	18.5	16.5	10.5	9.0	12.5	12.0	8.5	8.5	9.5	5.5	13.5	11.5
20	16.5	15.5	11.0	9.5	12.5	12.0	9.0	8.5	11.0	9.5	14.0	12.0
21	16.5	14.5	11.5	10.0	12.0	11.5	8.5	7.5	11.0	11.0	14.0	13.0
22	17.5	16.0	13.0	11.0	13.0	12.0	7.0	5.5	11.0	10.5	16.5	14.0
23	17.5	16.5	13.0	12.0	15.0	13.0	5.5	4.5	10.5	10.5	18.0	16.5
24	16.5	15.5	13.0	11.5	15.0	11.5	4.5	4.5	10.5	10.0	18.5	17.0
25	15.5	13.5	12.5	11.0	11.5	9.0	4.5	4.0	11.5	10.5	18.5	16.5
26	13.5	12.5	12.0	10.5	9.0	6.5	5.0	3.5	11.0	9.5	18.5	16.5
27	12.5	11.5	13.5	12.0	6.5	6.0	5.5	4.0	9.5	8.0	18.0	17.0
28	12.5	11.0	14.0	13.5	7.0	6.5	7.0	5.5	9.5	8.0	19.0	17.5
29	12.5	11.0	14.0	12.0	8.5	7.0	8.0	6.5	---	---	18.5	15.5
30	12.0	10.5	12.0	10.0	11.5	9.0	10.0	8.0	---	---	15.0	12.5
31	12.5	10.5	---	---	12.0	11.0	10.0	8.5	---	---	12.5	11.0
MONTH	22.5	10.5	14.0	9.0	15.0	5.5	11.5	3.5	11.5	4.0	19.0	8.5

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[illegible]

MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

OXYGEN, DISSOLVED (MG/L), 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	6.6	6.2	9.2	9.0	10.0	9.3	10.3	9.3	11.0	9.9	—	—
2	6.6	6.2	9.0	8.6	10.1	9.8	10.7	10.2	11.5	11.0	—	—
3	6.8	6.1	9.0	8.6	10.0	8.3	10.7	10.4	11.5	11.1	—	—
4	6.4	5.6	8.9	8.5	9.0	8.4	10.6	10.5	11.7	11.4	—	—
5	5.8	5.2	8.7	8.3	10.0	9.1	10.5	10.4	11.5	11.0	10.1	9.5
6	5.7	5.2	8.2	7.9	10.7	10.1	10.5	10.1	10.9	10.5	10.2	9.8
7	6.2	5.7	8.5	7.8	10.9	10.7	10.1	9.7	10.4	10.1	9.8	9.4
8	6.4	5.9	8.9	8.2	11.0	10.7	9.7	9.6	11.0	10.1	9.6	9.4
9	6.2	5.5	8.9	8.3	11.3	10.8	10.0	9.6	11.5	10.7	10.2	9.6
10	5.9	5.4	8.8	8.2	11.3	11.1	10.1	10.0	12.1	11.1	10.4	10.2
11	6.3	5.8	9.5	8.8	11.3	11.1	10.1	9.7	12.3	11.4	10.5	10.4
12	6.4	6.0	9.9	9.5	11.2	10.9	9.7	9.6	12.7	11.4	10.6	10.0
13	6.2	5.7	10.0	9.9	11.0	10.4	10.4	9.7	12.5	10.9	10.1	9.4
14	6.3	5.9	10.0	9.8	10.4	10.0	11.1	10.4	10.8	10.2	9.5	9.3
15	6.6	6.2	9.9	9.7	10.0	9.6	11.3	11.1	11.1	10.4	10.1	9.5
16	7.1	6.4	9.7	9.5	9.7	9.4	11.2	10.7	12.2	11.1	10.3	10.0
17	7.3	6.0	9.4	9.2	9.6	9.1	10.7	10.4	12.5	12.2	10.1	9.9
18	7.1	5.9	9.5	9.0	9.4	8.8	10.6	10.4	12.5	11.7	10.2	8.3
19	7.0	5.9	9.9	9.3	8.8	8.5	10.6	10.3	11.6	10.5	10.2	9.0
20	7.9	7.0	9.9	9.4	9.0	8.7	10.5	10.4	10.5	9.3	10.0	9.8
21	8.1	7.9	9.9	9.2	9.2	9.1	10.9	10.5	9.2	9.0	9.9	9.7
22	8.3	7.1	9.8	9.1	9.1	8.9	11.3	10.9	9.2	9.0	9.7	9.2
23	7.3	6.9	9.6	8.4	9.0	8.0	11.7	11.3	9.5	9.2	9.2	8.2
24	7.8	7.3	9.6	8.5	7.9	7.4	11.8	11.7	10.0	9.5	8.5	7.8
25	8.2	7.8	10.0	8.8	9.2	7.3	12.0	11.7	—	—	8.8	8.4
26	8.8	8.3	10.0	9.0	9.9	8.9	12.0	11.9	—	—	8.9	8.6
27	9.1	8.9	10.0	9.0	10.8	9.8	11.9	10.6	—	—	8.7	8.4
28	9.2	9.1	9.9	8.1	11.0	9.9	11.7	11.3	—	—	8.4	7.4
29	9.3	9.2	8.3	7.5	10.6	10.1	11.3	10.9	—	—	7.8	7.5
30	9.4	9.2	9.3	8.4	11.1	9.4	11.1	9.6	—	—	8.4	7.9
31	9.3	9.2	—	—	9.4	9.1	10.1	9.4	—	—	8.8	8.4
MONTH	9.4	5.2	10.0	7.5	11.3	7.3	12.0	9.3	12.7	9.0	10.6	7.4

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[illegible]

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 Coosawatee 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 1990 TO SEPTEMBER 1991

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 30...	0945	300	172	178	7.6	7.4	11.0	12.0	8.8	81
NOV 27...	1240	455	197	198	7.7	7.3	12.0	22.0	9.3	88
DEC 19...	0945	E1100	197	202	7.2	7.4	12.0	11.0	8.4	80
JAN 28...	1000	E790	150	155	--	7.5	6.0	8.5	11.8	97
FEB 26...	1210	2600	120	119	7.5	7.3	10.5	12.5	10.5	96
MAR 26...	0900	1100	150	158	7.5	7.4	15.0	15.0	8.0	81
APR 23...	0730	1550	130	130	7.7	7.4	14.5	13.0	9.6	97
MAY 28...	0730	760	170	174	7.5	7.5	23.5	24.5	6.7	80
JUN 25...	1110	700	167	165	7.4	7.5	23.5	22.0	6.0	72
JUL 30...	0745	600	188	182	7.5	7.4	25.0	20.0	6.0	68
AUG 27...	0745	380	200	200	7.5	7.5	25.0	24.0	6.2	76
SEP 25...	0840	820	--	--	--	7.2	20.0	20.0	5.8	--

DATE	TUR- BID ICAL, ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- EC 5 DAY (MG/L)	COLI- FORM, FECAL, (MG/L BROTH MPN)	HARD- NESS TOTAL LAB AS CACO3	ALKA- LINITY WAT WH TOT FET TOTAL 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 (MG/L AS C)
OCT 30...	15	0.8	170	66	60	0.500	<0.030	0.380	3.9
NOV 27...	11	1.3	70	90	75	0.480	0.060	0.390	2.6
DEC 19...	38	--	1100	76	65	0.630	0.080	0.490	9.4
JAN 28...	5.0	0.2	80	68	62	0.470	<0.030	0.070	6.4
FEB 26...	16	0.2	790	54	42	0.420	<0.030	0.130	4.0
MAR 26...	16	0.2	330	60	57	0.390	0.060	0.240	7.6
APR 23...	15	0.7	490	50	49	0.410	0.040	0.240	3.4
MAY 28...	18	0.5	310	72	62	0.550	0.030	0.400	5.0
JUN 25...	36	0.7	130	60	56	0.550	0.040	0.420	3.7
JUL 30...	27	0.8	1700	80	64	0.550	0.040	0.620	4.1
AUG 27...	28	0.7	790	92	73	0.300	0.030	0.490	6.1
SEP 25...	62	1.9	15000	78	57	1.09	0.070	2.37	10

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 Coosawatee 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.—99 years, 2,814 ft³/s, 23.88 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, 16,900 ft³/s, Feb. 23, gage height, 22.26 ft; minimum daily discharge, 693 ft³/s, Oct. 2.

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	717	1130	1450	6830	2910	3320	12800	9750	2080	2090	1310	2060
2	693	1090	1270	6550	2460	5650	8730	9150	2170	1870	1260	1960
3	829	1240	1420	4540	2250	8020	6700	5620	2100	1800	1250	1780
4	1160	1330	2840	4890	2130	8110	6150	5030	2060	2010	1140	1700
5	1440	1310	3060	4770	2030	8530	5750	10200	2300	2270	1070	1650
6	1460	1310	2300	4060	1980	6600	5770	13200	2190	2310	1070	1670
7	1470	1310	2260	3570	1980	5930	5030	13600	2100	2270	1090	1260
8	1520	1340	2070	3150	1920	5430	3830	12600	1950	2160	1130	1410
9	1480	1410	1920	3110	1760	5110	4460	8370	1880	2030	1040	1010
10	1480	2700	1770	2890	1670	3940	5140	5810	1810	1930	989	843
11	1560	3280	1780	4990	1640	3110	4200	5060	1400	1850	1110	802
12	1510	2510	1730	6790	1560	2850	3530	4710	1220	1870	1260	800
13	1510	1740	1700	6290	1570	3440	3400	4580	1280	1710	1700	819
14	1550	1480	1650	4220	2450	4440	3250	4270	2520	1550	1400	832
15	1590	1390	1470	3690	3310	3810	3040	4080	2420	1410	1450	784
16	1530	1320	1440	3690	2570	3380	3220	3800	1920	1390	1380	730
17	1470	1320	1410	3690	2030	3120	3100	4280	1840	1580	1340	720
18	2710	1280	1530	3400	3220	3430	3010	4050	1790	1760	1260	901
19	3240	1240	2510	2740	7020	3560	3920	3030	1680	1790	1190	1020
20	2630	1240	3560	2270	13900	3380	5150	2240	1580	1810	1110	1210
21	1830	1240	2920	2370	16100	3120	4390	2080	1500	1670	1170	1050
22	1860	1220	2470	2220	16500	2560	3850	1950	1690	1620	1060	1020
23	5270	1240	7540	2630	16700	2830	3580	2230	2000	1520	1060	1020
24	4630	1180	15400	2750	14600	2940	2980	2400	1690	1470	1060	1050
25	2520	1140	16100	2770	8900	2730	2290	2460	1510	1850	1030	1580
26	1700	1080	16600	2450	5440	2630	1940	2540	2470	1620	1120	1780
27	1450	1000	15400	1880	4520	2580	2120	2160	5340	1810	1210	1520
28	1310	989	10300	1800	3630	3230	4860	1990	4910	1770	1990	1250
29	1240	1290	6400	1840	---	8620	7710	2190	3380	1620	1940	1130
30	1260	1750	5230	2040	---	13900	9200	2250	2590	1910	1930	1070
31	1270	---	5830	3180	---	13900	---	2100	---	1690	1960	---
TOTAL	55889	43099	143330	112060	146750	154200	143100	157780	65370	56010	40079	36431
MEAN	1803	1437	4624	3615	5241	4974	4770	5090	2179	1807	1293	1214
MAX	5270	3280	16600	6830	16700	13900	12800	13600	5340	2310	1990	2060
MIN	693	989	1270	1800	1560	2560	1940	1950	1220	1390	989	720
CAL YR 1990	TOTAL 1667126		MEAN 4567		MAX 44400		MIN 685		MEAN† 4504		CFSM† 2.82	
WTR YR 1991	TOTAL 1154098		MEAN 3162		MAX 16700		MIN 693		MEAN† 3220		CFSM† 2.01	
											IN† 38.23	
											IN† 27.33	

†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 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.49	3.57	4.17	11.64	6.56	7.17	17.91	14.22	5.25	5.28	3.91	5.23
2	2.43	3.49	3.84	11.30	5.85	10.19	13.75	13.65	5.40	4.91	3.82	5.06
3	2.75	3.78	4.10	8.81	5.52	13.00	11.48	10.09	5.29	4.80	3.79	4.76
4	3.44	3.94	6.45	9.26	5.34	13.11	10.81	9.35	5.22	5.15	3.57	4.63
5	3.98	3.91	6.79	9.11	5.18	13.55	10.31	14.74	5.61	5.55	3.45	4.54
6	4.01	3.91	5.61	8.19	5.09	11.35	10.34	17.83	5.44	5.63	3.43	4.57
7	4.04	3.91	5.54	7.52	5.09	10.55	9.43	18.29	5.29	5.56	3.48	3.80
8	4.13	3.96	5.25	6.93	4.99	9.92	7.88	17.16	5.04	5.39	3.57	4.06
9	4.06	4.10	5.00	6.87	4.73	9.53	8.71	12.92	4.93	5.17	3.38	3.31
10	4.06	6.22	4.75	6.53	4.58	8.02	9.56	10.34	4.81	5.01	3.27	2.96
11	4.21	7.11	4.76	9.34	4.53	6.87	8.37	9.37	4.08	4.88	3.52	2.86
12	4.11	5.93	4.68	11.59	4.37	6.45	7.47	9.02	3.74	4.91	3.81	2.86
13	4.11	4.70	4.63	10.98	4.39	7.31	7.29	8.86	3.84	4.65	4.63	2.90
14	4.19	4.24	4.54	8.38	5.84	8.68	7.07	8.47	5.94	4.36	4.07	2.93
15	4.27	4.05	4.20	7.69	7.15	7.84	6.76	8.22	5.79	4.09	4.17	2.82
16	4.15	3.93	4.15	7.69	6.02	7.26	7.03	7.84	5.00	4.06	4.05	2.69
17	4.03	3.92	4.10	7.69	5.18	6.88	6.84	8.47	4.87	4.41	3.97	2.67
18	6.18	3.86	4.33	7.28	6.97	7.32	6.72	8.17	4.78	4.73	3.82	3.08
19	7.05	3.77	5.92	6.28	11.81	7.52	7.97	6.74	4.59	4.78	3.68	3.34
20	6.05	3.78	7.51	5.56	19.20	7.25	9.57	5.51	4.41	4.82	3.51	3.71
21	4.70	3.77	6.56	5.72	21.45	6.87	8.62	5.26	4.27	4.58	3.63	3.40
22	4.69	3.74	5.86	5.47	21.82	6.01	7.91	5.05	4.61	4.48	3.41	3.33
23	9.72	3.77	11.91	6.11	22.07	6.43	7.53	5.49	5.13	4.31	3.41	3.34
24	8.91	3.65	20.58	6.31	20.66	6.61	6.66	5.76	4.61	4.21	3.41	3.40
25	5.95	3.58	21.17	6.34	14.64	6.27	5.59	5.86	4.28	4.87	3.35	4.40
26	4.62	3.45	21.56	5.84	9.94	6.10	5.03	5.98	5.82	4.49	3.53	4.76
27	4.17	3.31	20.78	4.94	8.79	6.04	5.32	5.38	9.81	4.81	3.72	4.31
28	3.90	3.27	16.12	4.79	7.60	7.02	9.19	5.10	9.26	4.74	5.10	3.79
29	3.77	3.87	11.12	4.85	—	13.41	12.58	5.44	7.25	4.49	5.04	3.56
30	3.81	4.72	9.68	5.18	—	19.03	13.93	5.52	6.06	4.98	5.02	3.45
31	3.84	—	10.41	6.97	—	19.22	—	5.28	—	4.59	5.06	—
MEAN	4.57	4.11	8.26	7.46	9.12	9.12	8.92	9.01	5.35	4.80	3.86	3.68
MAX	9.72	7.11	21.56	11.64	22.07	19.22	17.91	18.29	9.81	5.63	5.10	5.23
MIN	2.43	3.27	3.84	4.79	4.37	6.01	5.03	5.05	3.74	4.06	3.27	2.67
CAL YR 1990	MEAN 7.93		MAX 32.32		MIN 2.43							
WTR YR 1991	MEAN 6.51		MAX 22.07		MIN 2.43							

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 1990 TO SEPTEMBER 1991

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)
NOV						
08...	0915	80113	1360	13.5	19	70
08...	0920	80113	1360	13.5	17	62
DEC						
12...	0934	80113	1730	7.5	5	23
12...	0939	80113	1730	7.5	8	37
JAN						
31...	1001	80113	3250	9.5	53	465
31...	1006	80113	3250	9.5	51	448
FEB						
20...	1309	80113	14400	--	196	7620
21...	1000	80113	16200	--	61	2670
21...	1005	80113	16200	--	98	4290
24...	1258	80113	14600	--	55	2170
25...	1124	80113	8810	--	45	1070
25...	1129	80113	8810	--	42	999
26...	1355	80113	5320	--	61	876
26...	1400	84213	5320	--	61	876
MAR						
20...	0928	80113	3440	12.0	22	204
20...	0933	80113	3440	12.0	22	204
JUN						
05...	0759	80113	2310	22.0	67	418
05...	0804	80113	2310	22.0	69	430

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
FEB				
20...	1310	80113	14400	82
24...	1258	80113	14600	92

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											
24...	1421	14400	--	--	7	26	53	87	98	100	100
24...	1422	14400	--	--	2	9	45	94	99	100	100
24...	1423	14400	--	--	1	18	25	29	30	33	45
24...	1424	14400	--	2	13	81	99	100	100	100	100
AUG											
28...	1013	2140	--	1	3	19	71	98	100	100	100
28...	1014	2140	1	5	11	39	77	97	100	100	100
28...	1015	2140	--	1	2	7	32	69	91	99	100
28...	1016	2140	--	1	2	3	12	66	98	100	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 1990 TO SEPTEMBER 1991

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										
30...	1015	1270	107	107	7.5	7.4	12.0	14.0	9.2	86
NOV										
27...	1210	1090	116	113	7.6	7.3	13.0	23.0	10.0	97
DEC										
19...	1000	2430	147	150	7.3	7.3	12.0	15.0	8.8	83
JAN										
28...	1010	1790	110	111	7.8	7.4	6.0	8.5	11.6	96
FEB										
26...	1110	5400	95	94	7.3	7.2	10.0	13.0	10.6	96
MAR										
26...	0920	2620	110	112	7.4	7.3	15.0	15.0	8.9	90
APR										
23...	0745	3670	82	79	7.5	7.3	14.0	13.0	10.5	105
MAY										
28...	0800	2010	110	110	7.4	7.4	22.0	24.5	7.6	88
JUN										
25...	1040	1520	120	114	7.5	7.4	23.5	22.5	6.5	78
JUL										
30...	0800	1780	92	85	7.6	7.1	25.5	19.0	7.9	87
AUG										
27...	0800	1160	125	122	7.5	7.3	24.0	24.0	7.3	88
SEP										
25...	0900	1530	--	153	--	7.2	20.0	20.0	6.8	--

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)	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									
30...	9.0	0.8	170	--	36	0.340	<0.030	0.140	2.0
NOV									
27...	7.0	1.1	130	52	40	0.340	<0.030	0.170	1.5
DEC									
19...	23	--	3300	56	50	0.360	0.150	0.250	4.5
JAN									
28...	5.0	0.3	130	48	43	0.450	<0.030	0.040	4.1
FEB									
26...	29	0.7	700	46	37	0.440	0.090	0.100	4.3
MAR									
26...	17	0.6	220	46	43	0.300	<0.030	0.150	12
APR									
23...	12	0.6	330	34	28	0.290	<0.030	0.130	9.1
MAY									
28...	17	0.6	490	40	42	0.390	<0.030	0.190	3.5
JUN									
25...	24	0.8	790	46	44	0.360	<0.030	0.170	2.7
JUL									
30...	14	0.8	<20	36	30	0.250	<0.030	0.210	3.0
AUG									
27...	17	0.4	330	54	43	0.300	<0.030	0.230	5.8
SEP									
25...	28	0.9	1300	50	43	0.430	0.040	0.560	3.9

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. 1-3, Nov. 6, Mar. 7-19, June 28 to Aug. 20. Records good to fair, except those for the periods of estimated daily discharges, which are fair to poor. Peak flow regulated by power company cofferdam since early 1970's.

AVERAGE DISCHARGE.--9 years, 27.6 ft³/s, 22.58 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)
Dec. 23	1515	568	6.32	Feb. 20	0100	*601	*6.51

Minimum daily discharge, 1.8 ft³/s, Oct. 2, 3.

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	2.0	3.4	12	56	29	78	65	78	23	19	5.4	9.7
2	1.8	3.3	13	42	25	108	51	59	21	13	5.3	9.4
3	1.8	3.4	21	57	23	125	40	47	17	11	5.0	8.3
4	3.6	3.4	20	47	21	99	32	54	21	11	4.7	7.2
5	3.0	3.8	10	39	19	77	28	82	26	23	4.4	6.6
6	2.4	9.0	7.1	34	19	64	25	98	15	13	4.2	6.0
7	2.5	3.4	4.4	32	17	83	25	71	14	9.6	3.9	5.3
8	3.5	4.3	3.9	33	14	74	37	56	12	8.3	3.9	7.3
9	3.4	22	3.5	26	12	63	35	54	10	7.1	3.7	6.8
10	3.1	26	4.5	42	11	52	27	46	9.6	6.3	3.5	7.0
11	3.0	16	4.0	143	10	44	21	41	8.8	5.5	3.6	6.9
12	2.9	12	3.3	105	9.3	41	30	35	8.5	5.3	3.4	6.6
13	2.9	11	3.3	71	12	52	37	32	7.9	5.1	3.4	6.5
14	2.8	9.9	3.7	53	18	44	33	29	8.0	4.9	3.9	6.3
15	2.7	7.7	3.5	43	11	38	33	26	7.4	4.7	5.4	6.3
16	2.6	7.4	3.4	41	9.9	33	28	22	7.2	4.3	4.7	5.7
17	3.2	10	5.7	30	16	35	24	21	7.9	5.9	3.9	5.0
18	11	11	9.4	25	41	40	29	34	7.7	6.2	3.5	4.6
19	4.2	11	14	24	167	27	69	56	7.7	4.6	3.6	4.4
20	3.8	11	11	24	500	26	49	35	10	3.9	4.5	4.4
21	3.5	13	12	19	238	24	39	28	8.7	3.3	4.2	4.1
22	12	11	9.6	17	115	23	32	24	9.8	3.7	3.8	3.9
23	9.5	9.1	350	15	171	51	28	22	33	3.2	3.6	3.6
24	8.7	9.4	158	16	111	33	23	20	29	3.4	3.4	4.7
25	6.1	7.8	59	16	88	29	19	19	35	3.8	3.1	5.7
26	4.0	9.3	40	14	71	24	17	18	80	3.7	3.1	5.3
27	6.3	9.9	64	13	56	20	111	22	48	3.7	2.9	5.1
28	5.1	14	63	13	48	30	200	30	67	3.6	2.8	5.0
29	3.5	17	51	11	---	229	155	71	46	3.7	3.6	4.8
30	3.4	14	48	35	---	147	109	41	28	4.1	6.5	4.6
31	3.4	---	86	36	---	88	---	29	---	5.2	8.6	---
TOTAL	131.7	303.5	1101.3	1172	1882.2	1901	1451	1300	634.2	213.1	129.5	177.1
MEAN	4.25	10.1	35.5	37.8	67.2	61.3	48.4	41.9	21.1	6.87	4.18	5.90
MAX	12	26	350	143	500	229	200	98	80	23	8.6	9.7
MIN	1.8	3.3	3.3	11	9.3	20	17	18	7.2	3.2	2.8	3.6
CFSM	.26	.61	2.14	2.28	4.05	3.69	2.92	2.52	1.27	.41	.25	.36
IN.	.30	.68	2.47	2.63	4.22	4.26	3.25	2.91	1.42	.48	.29	.40
CAL YR 1990	TOTAL	14377.0	MEAN	39.4	MAX	762	MIN	1.8	CFSM	2.37	IN	32.22
WTR YR 1991	TOTAL	10396.6	MEAN	28.5	MAX	500	MIN	1.8	CFSM	1.72	IN	23.30

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.—Estimated daily discharges: July 15–Sept. 30. Records good to fair, except those for the period of estimated daily discharges, which are 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.—52 years, 3,627 ft³/s, 23.23 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, 23,300 ft³/s, Feb. 21; gage height, 26.94 ft; minimum daily discharge, 809 ft³/s, Oct. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	809	1310	1820	8100	3950	4570	15800	10700	2520	2770	1600	2000
2	954	1190	1490	8310	3400	7810	13500	10300	2520	2200	1350	1950
3	877	1220	1380	6960	2960	11000	9140	8470	2530	2010	1300	1750
4	1010	1300	2230	6130	2700	12600	7300	5890	2330	2160	1300	1650
5	1280	1310	3160	6100	2560	10500	6680	8570	2740	2700	1150	1550
6	1440	1330	2990	5470	2420	9530	6350	14800	2650	2540	1100	1550
7	1440	1350	2370	4800	2370	7510	6340	15700	2400	2480	1100	1550
8	1490	1330	2360	4190	2270	6790	5570	15100	2390	2470	1100	2700
9	1540	1400	2200	3790	2220	6550	5210	12700	2200	2210	1200	3100
10	1470	2080	1950	3670	2100	5880	5650	8450	2160	2090	1100	1500
11	1500	3260	1800	5900	1990	4400	5460	6390	1930	1960	1050	1100
12	1550	3240	1800	8810	1870	3600	4520	5660	1550	1930	1150	990
13	1500	2360	1750	8590	1810	4240	4280	5410	1430	1880	1400	950
14	1490	1760	1720	6880	2350	4970	4210	4830	2540	1790	1600	910
15	1530	1550	1710	4870	3380	4990	3910	4520	2740	1600	1400	910
16	1560	1450	1550	4680	3550	4360	3580	4280	2640	1450	1400	850
17	1510	1420	1480	4500	2770	4090	3580	4120	2210	1500	1300	850
18	2460	1410	1550	4240	3030	4020	3400	4690	2090	1700	1300	850
19	3220	1330	1960	3840	6950	4170	4090	4140	2020	1750	1350	1050
20	3310	1290	3130	3240	18100	4050	5470	3330	1850	1800	1450	1100
21	2450	1310	3590	2820	23000	3750	5720	2660	1780	1800	1200	1400
22	2100	1300	2980	2660	21200	3380	4800	2460	1710	1700	1150	1150
23	4180	1280	7330	2290	20700	3340	4160	2390	2020	1550	1100	1050
24	5480	1310	18000	3040	20500	3810	3700	2600	2200	1500	1050	1250
25	4120	1250	18400	3110	18700	3410	3050	2630	1830	1550	1100	1600
26	2370	1110	17000	3120	11900	2950	2390	2770	2370	1850	1050	2200
27	1760	1150	16900	2650	6700	2930	2750	2820	4080	1750	1100	1900
28	1550	1120	16900	2180	5290	3340	6650	2400	5540	1900	1300	1800
29	1350	1180	12300	2090	—	8570	10100	2500	4680	1750	1850	1500
30	1310	1500	7490	2400	—	15400	10700	2560	3660	1700	2350	1300
31	1320	—	7300	3410	—	16900	—	2500	—	1950	2050	—
TOTAL	59930	45400	168590	142840	200740	193410	178060	186340	75310	59990	41000	44010
MEAN	1933	1513	5438	4608	7169	6239	5935	6011	2510	1935	1323	1467
MAX	5480	3260	18400	8810	23000	16900	15800	15700	5540	2770	2350	3100
MIN	809	1110	1380	2090	1810	2930	2390	2390	1430	1450	1050	850
CAL YR 1990	TOTAL 2119031		MEAN 5806		MAX 42300		MIN 792		MEAN† 5743		CFM† 2.71	
WTR YR 1991	TOTAL 1395620		MEAN 3824		MAX 23000		MIN 809		MEAN† 3882		CFM† 1.83	
											IN† 36.79	
											IN† 24.87	

†ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

MOBILE RIVER BASIN

02388520 OOSTANAU LA 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, Oostanau la River near Rome, Ga.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 31...	0815	1340	135	135	7.5	7.4	12.0	7.0	8.7	82
NOV 29...	1240	1200	142	143	7.6	7.4	13.0	17.5	8.6	82
DEC 20...	0900	2650	146	148	7.5	7.4	12.0	12.0	8.5	80
JAN 29...	0830	2160	125	119	7.7	7.6	7.0	6.0	10.6	89
FEB 27...	1240	7100	104	101	7.3	7.1	10.5	18.5	9.1	83
MAR 27...	0910	3130	117	120	7.4	7.4	16.0	19.5	9.3	96
APR 24...	0630	3430	95	91	7.4	7.4	15.0	10.5	8.6	87
MAY 29...	0600	2330	119	120	7.4	7.4	23.0	21.0	7.4	88
JUN 26...	1230	2790	126	122	7.3	7.4	22.0	23.5	6.8	79
JUL 31...	0630	1500	122	117	7.3	7.3	22.0	19.0	7.0	77
AUG 28...	0540	508	146	131	7.5	7.4	25.0	21.5	6.7	82
SEP 26...	0650	2180	--	132	7.3	7.2	20.0	10.0	6.1	--

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)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CaCO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 31...	12	10	0.8	340	52	46	6
NOV 29...	11	--	1.7	560	64	52	13
DEC 20...	22	12	0.4	330	60	51	27
JAN 29...	6.0	12	0.8	110	60	48	5
FEB 27...	20	--	4.0	--	42	34	33
MAR 27...	15	5	0.7	110	60	47	19
APR 24...	13	<5	0.5	290	37	34	25
MAY 29...	24	5	1.1	9400	54	43	27
JUN 26...	44	17	1.6	1700	54	46	E58
JUL 31...	12	--	0.5	170	54	42	18
AUG 28...	13	--	1.0	170	50	46	20
SEP 26...	24	--	1.0	3300	52	44	31

MOBILE RIVER BASIN

02388520 OOSTANAULA RIVER AT ROME, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 31...	0.490	<0.030	--	0.30	0.79	0.250	2.2
NOV 29...	0.330	<0.030	--	--	--	0.260	2.7
DEC 20...	0.390	0.030	0.17	0.20	0.59	0.330	4.6
JAN 29...	0.460	<0.030	--	<0.10	--	0.050	4.9
FEB 27...	0.340	0.110	--	--	--	0.120	4.5
MAR 27...	0.420	<0.030	--	<0.10	--	0.090	5.5
APR 24...	0.370	<0.030	--	0.10	0.47	0.210	2.4
MAY 29...	0.420	<0.030	--	0.10	0.52	0.170	3.2
JUN 26...	0.390	0.030	0.37	0.40	0.79	0.260	4.2
JUL 31...	0.380	0.030	--	--	--	0.290	3.2
AUG 28...	0.360	0.110	--	--	--	0.300	6.2
SEP 26...	0.360	0.050	--	--	--	0.350	5.3

MOBILE RIVER BASIN

02388530 OOSTANAULA 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, 22.48 ft, Feb. 21.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.10	5.35	5.53	11.09	8.11	10.75	16.91	16.27	8.40	5.63	5.75	4.74
2	5.40	5.23	4.13	11.16	7.08	13.56	15.41	15.46	5.72	6.15	5.55	5.37
3	4.70	5.00	4.30	10.34	5.96	13.74	12.18	14.08	5.56	5.94	5.39	5.74
4	4.82	3.85	6.43	9.75	5.78	15.03	10.38	11.85	7.31	6.08	4.06	5.66
5	5.18	4.10	7.38	9.52	5.89	15.63	10.35	15.08	7.99	6.84	3.89	6.37
6	5.35	4.91	7.00	8.00	6.15	14.81	9.25	18.59	6.85	7.40	4.43	6.47
7	3.93	4.91	6.43	7.47	6.72	13.39	8.96	19.57	6.34	6.66	4.49	6.44
8	3.97	5.39	6.28	8.07	6.74	12.62	8.57	18.28	5.28	5.32	4.44	8.16
9	6.08	5.59	4.86	8.18	6.39	11.85	10.11	17.12	4.97	6.47	4.49	5.75
10	4.95	6.00	4.86	7.82	4.93	8.74	11.08	14.65	4.88	6.43	4.41	5.45
11	4.96	5.98	6.11	9.44	4.83	7.90	10.35	13.10	5.55	6.33	3.98	5.05
12	5.03	6.05	6.15	11.76	5.68	9.13	9.45	11.85	5.19	6.25	4.90	4.94
13	4.98	5.99	6.09	10.73	5.66	9.93	8.87	9.15	5.05	6.18	6.16	5.00
14	3.96	5.58	6.06	9.60	6.16	10.55	7.39	11.08	6.11	4.60	7.06	4.86
15	3.95	5.34	5.81	9.20	6.92	10.46	7.05	11.18	6.29	4.37	6.89	3.45
16	4.93	5.23	4.21	9.00	7.12	9.35	8.30	10.94	5.38	5.98	6.84	4.18
17	4.90	5.09	4.38	8.84	5.87	7.08	8.31	10.77	5.00	5.55	6.80	5.38
18	5.92	4.01	6.15	8.61	5.73	7.27	8.12	10.71	5.90	5.89	6.65	4.97
19	6.54	3.99	6.60	8.02	9.11	8.94	8.62	10.77	5.88	6.01	6.44	5.58
20	6.63	5.33	7.59	6.09	18.29	8.83	10.11	10.86	5.73	6.93	6.06	6.80
21	5.00	5.38	8.02	5.95	22.27	8.54	8.81	9.36	5.70	4.92	5.76	6.67
22	4.81	5.38	7.23	7.65	20.85	8.26	7.77	7.09	6.77	4.63	5.63	3.79
23	8.31	5.38	9.24	7.58	20.87	7.89	8.74	5.74	5.19	5.58	5.52	3.65
24	8.93	5.28	17.55	7.97	20.23	6.69	8.37	6.93	5.12	5.47	5.49	5.21
25	7.69	3.85	18.23	8.11	19.07	6.56	7.77	7.83	6.75	5.64	3.79	6.26
26	6.06	4.05	17.08	7.79	16.48	8.11	7.14	8.07	7.46	6.22	3.75	7.09
27	5.41	5.21	17.30	5.59	12.90	8.65	7.52	5.96	9.05	6.06	5.11	7.22
28	4.20	5.22	17.46	5.25	11.42	9.10	9.61	8.03	11.36	5.58	5.28	6.73
29	4.17	5.37	14.66	5.84	---	14.16	12.57	9.17	10.54	5.77	5.87	4.13
30	5.34	5.64	9.75	6.25	---	20.39	15.26	9.15	6.60	5.90	6.45	3.89
31	5.36	---	9.62	7.98	---	18.43	---	9.11	---	6.17	6.13	---
MEAN	5.31	5.12	8.47	8.34	10.11	10.85	9.78	11.54	6.46	5.90	5.40	5.50
MAX	8.93	6.05	18.23	11.76	22.27	20.39	16.91	19.57	11.36	7.40	7.06	8.16
MIN	3.10	3.85	4.13	5.25	4.83	6.56	7.05	5.74	4.88	4.37	3.75	3.45
CAL YR 1990	MEAN 9.63		MAX 33.71		MIN 3.10							
WTR YR 1991	MEAN 7.72		MAX 22.27		MIN 3.10							

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.

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 1990 TO SEPTEMBER 1991

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 16...	0900	--	21	20	6.9	6.8	21.5	25.0	8.0	94
SEP 10...	0500	--	--	20	7.1	6.6	20.0	16.0	7.9	--

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 16...	4.0	0.8	330	8	0.100	<0.030	0.060	1.6
SEP 10...	7.0	0.5	80	8	0.090	<0.030	0.070	1.6

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.--64 years (water years 1897-1905, 1937-91), 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)
Mar. 30	0300	*5,940	*11.70				

Minimum discharge, 471 ft³/s, Oct. 3, 4, gage height, 2.02 ft.

MOBILE RIVER BASIN

02392000 ETOWAH RIVER AT CANTON, 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	502	641	582	1420	1620	1460	2010	2360	1400	1290	995	1250
2	492	622	567	1230	1340	3890	1780	1910	1490	1200	935	2360
3	478	610	668	1150	1230	3120	1650	1680	1590	1170	859	1620
4	490	601	1470	1270	1140	2880	1570	1720	1410	1110	805	1280
5	549	603	1150	1160	1080	2210	1510	3580	1320	1320	768	1130
6	519	658	858	1060	1070	1900	1490	5050	1250	1210	790	1030
7	487	650	766	1020	1140	1880	1460	3150	1220	1100	907	1050
8	509	604	736	1070	1050	1810	1470	2350	1180	1050	983	1000
9	523	641	693	1050	995	1760	1810	2180	1160	1060	891	934
10	553	1030	653	991	956	1600	2190	2200	1130	997	952	877
11	1020	953	635	1970	925	1500	1810	2060	1100	1040	899	850
12	1040	756	620	2910	896	1460	1610	2490	1090	1240	2600	829
13	954	690	609	1980	916	2040	1620	2510	1110	1030	2100	803
14	721	651	610	1580	1330	2390	1580	2070	1440	921	1420	786
15	621	628	612	1400	1310	1850	1510	1860	1240	859	1600	768
16	568	617	604	1360	1090	1650	1450	1790	1130	838	1270	756
17	540	613	604	1300	1030	1550	1390	2070	1100	979	1050	738
18	881	601	665	1180	1350	1600	1360	1960	1070	1750	939	725
19	1370	588	850	1120	1450	1640	1550	1920	1180	2200	905	959
20	869	581	812	1220	3980	1490	2120	1720	1220	1510	981	1090
21	703	578	905	1170	4050	1440	1670	1640	1240	1250	987	849
22	1020	574	863	1050	2390	1410	1510	1610	1210	1100	838	769
23	3090	578	939	1000	2310	1390	1440	1570	1170	993	787	728
24	1830	580	2850	1000	1980	1370	1390	1530	1090	926	756	753
25	1240	568	1920	1060	1680	1320	1330	1470	1120	1010	747	1400
26	982	557	1370	1010	1560	1300	1300	1440	1520	982	1250	1480
27	845	556	1220	984	1440	1280	1390	1540	1840	1150	2640	1020
28	771	576	1350	970	1360	1520	2220	2100	2140	1230	1620	869
29	719	692	1290	951	---	3110	2860	1850	1730	1100	1470	798
30	684	640	1200	1240	---	4690	3330	1570	1430	985	1810	757
31	661	---	1440	2160	---	2570	---	1440	---	992	1450	---
TOTAL	26231	19237	30111	40036	42668	61080	51380	64390	39320	35592	37004	30258
MEAN	846	641	971	1291	1524	1970	1713	2077	1311	1148	1194	1009
MAX	3090	1030	2850	2910	4050	4690	3330	5050	2140	2200	2640	2360
MIN	478	556	567	951	896	1280	1300	1440	1070	838	747	725
CFSM	1.38	1.05	1.58	2.11	2.49	3.21	2.79	3.39	2.14	1.87	1.95	1.65
IN.	1.59	1.17	1.83	2.43	2.59	3.71	3.12	3.91	2.39	2.16	2.25	1.84
CAL YR 1990	TOTAL	597937	MEAN	1638	MAX	21900	MIN	339	CFSM	2.67	IN	36.29
WTR YR 1991	TOTAL	477307	MEAN	1308	MAX	5050	MIN	478	CFSM	2.13	IN	28.97

MOBILE RIVER BASIN

02392000 ETOWAH RIVER AT CANTON, GA.—Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.09	2.40	2.28	3.88	4.31	3.95	5.10	5.80	3.88	3.59	3.08	3.51
2	2.07	2.36	2.24	3.47	3.71	8.68	4.65	4.91	4.08	3.42	2.97	5.78
3	2.04	2.34	2.45	3.34	3.46	7.30	4.39	4.45	4.28	3.37	2.83	4.31
4	2.07	2.32	3.99	3.56	3.32	6.83	4.21	4.52	3.93	3.27	2.73	3.58
5	2.20	2.32	3.36	3.36	3.23	5.51	4.08	8.14	3.74	3.66	2.66	3.30
6	2.13	2.44	2.83	3.20	3.21	4.89	4.05	10.46	3.58	3.43	2.70	3.14
7	2.06	2.42	2.66	3.13	3.32	4.84	3.97	7.34	3.51	3.26	2.92	3.17
8	2.11	2.32	2.60	3.21	3.18	4.70	4.00	5.77	3.46	3.17	3.05	3.09
9	2.14	2.40	2.51	3.18	3.08	4.61	4.71	5.44	3.43	3.18	2.89	2.97
10	2.21	3.13	2.43	3.07	3.01	4.27	5.46	5.48	3.38	3.08	3.00	2.87
11	3.12	3.00	2.39	4.99	2.95	4.07	4.71	5.20	3.32	3.16	2.91	2.82
12	3.15	2.64	2.36	6.87	2.90	3.98	4.30	6.04	3.30	3.51	6.20	2.78
13	3.00	2.50	2.33	5.04	2.94	5.16	4.31	6.09	3.34	3.13	5.27	2.73
14	2.57	2.43	2.34	4.23	3.70	5.85	4.23	5.23	4.04	2.95	3.89	2.70
15	2.36	2.38	2.34	3.84	3.65	4.79	4.09	4.80	3.63	2.83	4.27	2.66
16	2.24	2.35	2.32	3.76	3.25	4.38	3.96	4.67	3.41	2.79	3.57	2.64
17	2.18	2.34	2.32	3.62	3.14	4.16	3.83	5.22	3.34	3.05	3.16	2.60
18	2.85	2.32	2.45	3.38	3.75	4.27	3.76	5.01	3.27	4.58	2.98	2.58
19	3.79	2.29	2.82	3.29	3.95	4.35	4.16	4.93	3.54	5.48	2.92	3.01
20	2.85	2.27	2.75	3.46	8.55	4.05	5.32	4.52	3.65	4.08	3.05	3.24
21	2.53	2.27	2.92	3.37	8.86	3.93	4.43	4.37	3.69	3.52	3.06	2.81
22	3.15	2.26	2.84	3.18	5.84	3.87	4.08	4.30	3.62	3.26	2.79	2.66
23	7.23	2.27	2.98	3.09	5.69	3.83	3.93	4.20	3.52	3.07	2.70	2.58
24	4.73	2.27	6.75	3.09	5.06	3.78	3.82	4.13	3.36	2.96	2.64	2.63
25	3.52	2.25	4.92	3.18	4.44	3.67	3.69	4.00	3.40	3.10	2.62	3.87
26	3.05	2.22	3.76	3.11	4.18	3.60	3.61	3.93	4.22	3.05	3.57	4.00
27	2.81	2.22	3.44	3.06	3.93	3.58	3.82	4.14	4.80	3.34	6.34	3.12
28	2.67	2.26	3.74	3.03	3.76	4.09	5.51	5.28	5.36	3.48	4.31	2.85
29	2.56	2.51	3.58	3.00	---	7.08	6.77	4.79	4.55	3.25	3.99	2.72
30	2.49	2.40	3.41	3.54	---	9.87	7.69	4.22	3.91	3.06	4.70	2.64
31	2.45	---	3.92	5.40	---	6.20	---	3.96	---	3.07	3.94	---
MEAN	2.79	2.40	3.03	3.64	4.08	4.97	4.49	5.20	3.75	3.36	3.47	3.11
MAX	7.23	3.13	6.75	6.87	8.86	9.87	7.69	10.46	5.36	5.48	6.34	5.78
MIN	2.04	2.22	2.24	3.00	2.90	3.58	3.61	3.93	3.27	2.79	2.62	2.58
CAL YR 1990	MEAN 4.30		MAX 23.38		MIN 1.68							
WTR YR 1991	MEAN 3.69		MAX 10.46		MIN 2.04							

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 1990 TO SEPTEMBER 1991

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)
MAR 26...	1215	1290	38	38	7.2	7.0	14.0	28.5	9.6	96
JUN 25...	0950	1130	39	39	7.1	7.0	21.0	21.0	7.8	90
JUL 30...	1100	985	40	37	--	6.9	27.5	18.0	9.1	99
AUG 27...	1200	2820	32	31	--	6.5	21.0	28.0	8.7	100
SEP 25...	1200	1440	--	44	--	6.9	18.0	21.0	8.2	--

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)
MAR 26...	8.0	0.1	220	14	0.220	<0.030	0.040	3.5
JUN 25...	28	0.4	490	13	0.260	<0.030	0.020	1.9
JUL 30...	17	0.4	220	13	0.260	<0.030	0.120	2.3
AUG 27...	160	1.6	330	10	0.200	<0.030	0.100	11
SEP 25...	36	0.7	630	15	0.210	<0.030	<0.020	3.5

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.--53 years, 1,904 ft³/s, 23.08 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, 8,640 ft³/s, Dec. 6, gage height, 7.07 ft; minimum daily discharge, 253 ft³/s, May 22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3320	2220	321	2190	1600	5300	877	5040	371	1810	2100	1260
2	2200	2230	324	2190	353	310	877	5050	324	1800	2100	2080
3	2200	319	2330	2330	346	306	888	5060	3300	1810	319	2100
4	2220	322	2330	2250	959	4880	1960	4350	3320	1820	324	3270
5	2210	1590	2320	337	1570	4870	877	310	2110	3010	1190	3450
6	288	1580	2330	337	2540	4880	297	3530	1810	2110	1190	3430
7	288	2250	2350	2240	2550	4890	298	3520	407	328	1190	2270
8	3330	2250	307	2840	2560	4890	2420	3520	318	2360	1190	330
9	1580	2250	306	2550	334	299	2670	5290	330	2410	1190	2090
10	1580	317	2600	2250	333	297	2630	5310	1520	2410	605	2090
11	1580	315	2620	2260	1770	3930	2610	5100	1500	2420	340	2100
12	1580	1580	2620	353	1750	3940	2590	300	1510	2430	2410	2260
13	297	1830	2630	351	1760	3940	290	4700	1780	334	3860	2100
14	297	1850	2640	2890	1750	3950	292	5600	1500	333	3870	324
15	1580	1830	298	2890	1730	3960	2670	5620	315	2970	3860	1360
16	1580	1860	297	2910	828	300	2680	5640	315	2130	3860	3090
17	1600	315	2970	2900	271	300	2670	5660	1800	2130	3850	2420
18	1580	315	3000	2920	744	3010	2660	3870	1800	1910	3860	2430
19	1580	2290	3010	347	550	3020	2670	3860	1800	2930	2680	3950
20	303	2280	3030	352	580	3010	301	4580	1800	335	2660	4230
21	306	2300	3040	3550	566	3010	306	2410	3330	343	2660	338
22	2790	2290	322	3560	2430	3010	2670	253	316	1990	2680	333
23	1590	2300	326	3580	319	294	2670	2250	315	1970	2680	2120
24	1590	315	1110	3600	315	297	2680	3270	3310	2100	334	2130
25	1590	308	1090	3610	3980	3370	2680	3860	3020	2110	332	2140
26	1590	2300	2220	375	5240	4530	2690	307	3010	2110	2080	3630
27	306	2320	2210	373	5260	4470	325	3860	4520	974	2080	3640
28	307	2330	2210	1620	5270	2480	301	5010	5220	1740	2090	336
29	2220	2330	289	1620	---	1220	1240	5850	318	2110	2100	333
30	2220	2330	326	1620	---	307	5060	6080	316	2110	2090	2410
31	2230	---	2200	1610	---	306	---	5740	---	2100	334	---
TOTAL	47932	48916	53976	62805	48258	83576	53849	124800	51605	57447	62108	64044
MEAN	1546	1631	1741	2026	1723	2696	1795	4026	1720	1853	2003	2135
MAX	3330	2330	3040	3610	5270	5300	5060	6080	5220	3010	3870	4230
MIN	288	308	289	337	271	294	290	253	315	328	319	324
MEAN†	1326	907	1541	2085	2694	3399	2726	3779	1944	1786	1896	1567
CFSM†	1.18	.81	1.38	1.86	2.41	3.03	2.43	3.37	1.74	1.59	1.69	1.40
IN†	1.36	.90	1.59	2.15	2.50	3.50	2.72	3.89	1.94	1.84	1.95	1.56
CAL YR 1990	TOTAL 963220	MEAN 2639	MAX 10100	MIN 272	MEAN† 2658	CFSM† 2.37	IN† 32.23					
WTR YR 1991	TOTAL 759316	MEAN 2080	MAX 6080	MIN 253	MEAN† 2136	CFSM† 1.91	IN† 25.90					

†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 1990 TO SEPTEMBER 1991

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 31...	0600	315	64	55	6.7	6.9	17.0	9.0	7.9	83
NOV 27...	1010	8560	56	53	6.9	7.0	14.0	17.0	7.9	78
JAN 28...	1130	384	54	52	--	7.0	8.0	11.5	10.9	94
MAR 26...	1035	7660	50	47	7.2	6.9	11.0	22.0	10.6	98
MAY 28...	0905	324	48	47	6.9	6.8	19.0	25.5	8.0	88
JUL 30...	0920	324	54	50	6.9	6.6	26.0	18.0	5.2	56
AUG 27...	0915	333	57	52	7.1	6.7	24.0	25.0	4.7	57
SEP 25...	1015	353	--	51	--	6.5	22.0	21.5	4.0	--

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- PEND (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)
OCT 31...	8.0	0.4	50	18	7	0.160	<0.030	0.060	1.4	510	59
NOV 27...	8.0	1.2	35	17	7	0.230	0.060	0.070	2.1	680	78
JAN 28...	11	0.6	20	14	7	0.380	0.070	0.050	4.8	430	14
MAR 26...	12	0.6	20	14	6	0.400	0.030	0.020	4.1	--	--
MAY 28...	7.0	0.4	20	15	2	0.330	0.040	0.090	3.4	420	25
JUL 30...	2.0	0.5	230	17	<1	0.230	0.050	0.090	2.5	50	14
AUG 27...	6.0	--	50	13	1	0.130	0.140	0.040	4.8	570	260
SEP 25...	5.0	0.6	230	18	4	0.160	0.050	<0.020	3.2	240	60

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 YEAR.—Maximum gage height, 16.40 ft, May 19; minimum, 4.55 ft, Oct. 1.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.12	7.36	4.79	7.74	7.24	11.19	6.23	11.40	6.13	6.86	7.37	6.07
2	7.38	7.38	4.69	7.65	5.21	8.14	6.08	11.02	5.21	6.83	7.23	6.84
3	7.24	4.85	7.46	7.83	5.04	6.62	6.00	10.92	8.43	6.82	4.94	7.05
4	7.28	4.63	7.76	7.78	5.90	10.98	7.32	10.20	8.68	6.85	4.78	8.46
5	7.26	6.51	7.68	5.33	6.58	10.97	5.90	7.83	7.47	7.93	5.99	8.68
6	4.80	6.57	7.60	4.88	7.66	10.82	5.01	10.63	6.68	7.73	5.99	8.67
7	4.60	7.07	7.68	7.24	7.61	10.84	4.99	9.79	5.29	4.90	5.99	7.49
8	8.33	7.39	4.86	8.34	8.21	10.73	7.26	9.39	4.85	7.40	5.99	4.75
9	6.56	7.52	4.74	8.15	5.29	5.83	8.61	11.05	4.84	7.56	5.99	7.02
10	6.42	5.34	7.45	7.41	4.83	5.08	8.40	11.28	6.42	7.60	5.25	7.04
11	6.43	4.87	7.88	8.17	6.67	9.06	8.30	11.27	6.43	7.55	5.17	7.04
12	6.47	6.48	7.88	6.13	7.01	9.69	8.21	6.38	6.44	7.51	8.30	7.23
13	4.68	6.79	7.87	5.22	7.04	9.91	5.50	10.17	6.74	4.84	9.39	7.03
14	4.63	6.93	7.91	7.99	7.11	9.99	5.12	10.95	6.47	4.76	9.37	4.70
15	6.34	6.94	5.14	8.36	7.08	9.83	7.85	11.50	4.96	7.83	9.39	6.09
16	6.39	6.94	4.71	8.34	6.03	5.75	8.02	11.55	4.86	7.10	9.32	7.94
17	6.42	5.08	7.56	8.33	4.72	5.03	7.99	11.52	6.77	7.17	9.46	7.64
18	6.47	4.67	8.34	8.29	5.56	8.23	7.97	10.17	6.89	7.41	9.24	7.40
19	6.46	6.97	8.40	5.31	5.32	8.62	8.04	11.40	6.84	8.19	7.82	8.97
20	4.71	7.46	8.39	4.89	8.76	8.58	5.47	10.95	6.90	5.48	7.86	9.79
21	4.62	7.43	8.42	8.32	8.49	8.57	5.19	9.49	8.50	4.93	7.80	5.48
22	7.97	7.44	5.52	9.03	8.12	8.58	7.80	5.33	5.33	7.00	7.78	4.72
23	7.18	7.45	4.96	9.05	7.45	5.33	7.97	7.88	5.07	7.18	7.79	7.05
24	6.75	5.13	6.70	9.10	5.97	4.91	7.95	8.48	8.22	7.11	4.95	7.16
25	6.54	4.65	6.22	9.16	9.38	8.63	7.93	9.44	8.57	7.80	4.73	8.17
26	6.49	7.32	7.42	5.65	11.24	10.06	7.93	5.44	8.61	7.41	6.97	9.25
27	4.71	7.43	7.67	4.92	11.12	10.00	5.28	8.97	9.62	6.43	7.13	9.13
28	4.66	7.50	7.76	6.66	11.08	8.16	5.62	9.64	11.11	6.95	7.08	5.27
29	7.16	7.52	5.11	6.72	—	8.53	6.98	11.37	6.12	7.35	7.12	4.79
30	7.36	7.51	4.85	7.24	—	8.03	12.37	11.47	4.97	7.25	7.25	7.25
31	7.37	—	7.48	8.27	—	5.77	—	11.51	—	7.34	4.86	—
MEAN	6.38	6.57	6.80	7.34	7.20	8.47	7.11	9.95	6.78	6.94	7.04	7.14
MAX	8.33	7.52	8.42	9.16	11.24	11.19	12.37	11.55	11.11	8.19	9.46	9.79
MIN	4.60	4.63	4.69	4.88	4.72	4.91	4.99	5.33	4.84	4.76	4.73	4.70
CAL YR 1990	MEAN 8.01		MAX 17.06		MIN 4.54							
WTR YR 1991	MEAN 7.32		MAX 12.37		MIN 4.60							

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. Datum of gage is 638.11 ft above National Geodetic Vertical Datum of 1929 (leveling by global positioning system equipment).

REMARKS.—Stage affected by Allatoona Reservoir Dam since December 1949.

EXTREMES FOR PERIOD OF RECORD.—Maximum gage height, 18.05 ft, Mar. 17, 1990; minimum 2.62 ft, Oct. 21, 22, 1986.

EXTREMES FOR CURRENT YEAR.—Maximum gage height, 10.23 ft, May 19; minimum recorded, 2.94 ft, Oct. 1, 7, 15, 22 and Nov. 4, 5.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.52	4.36	3.34	4.54	4.41	6.44	4.12	6.71	4.34	4.17	—	3.81
2	4.51	4.37	3.16	4.47	3.60	5.51	3.97	6.40	3.67	4.28	—	4.00
3	4.31	3.41	4.24	4.55	3.42	4.41	3.91	6.30	4.87	4.25	—	4.35
4	4.36	3.11	4.62	4.53	3.73	6.32	4.44	6.15	5.27	4.27	—	5.00
5	4.36	3.80	4.55	3.70	3.83	6.46	3.82	6.24	4.92	4.67	—	5.14
6	3.38	4.00	4.50	3.29	4.40	6.32	3.44	7.24	4.09	4.93	—	5.14
7	3.08	4.06	4.48	4.08	4.46	6.33	3.40	6.17	3.82	3.44	—	4.71
8	4.68	4.38	3.41	4.76	4.80	6.22	4.31	5.75	3.40	4.39	—	3.66
9	4.18	4.46	3.18	4.72	3.70	4.17	5.48	6.48	3.38	4.60	—	4.40
10	3.93	3.81	4.12	4.35	3.23	3.47	5.16	6.64	4.00	4.62	—	4.35
11	3.96	3.30	4.62	4.74	3.81	4.94	4.98	6.82	4.07	4.62	—	4.33
12	3.96	3.76	4.62	4.12	4.14	5.51	4.90	4.67	4.06	4.56	—	4.43
13	3.17	4.04	4.63	3.54	4.15	5.66	4.00	5.80	4.19	3.43	—	4.32
14	3.08	4.17	4.62	4.46	4.20	5.70	3.58	6.34	4.11	3.25	—	3.35
15	3.74	4.15	3.62	4.90	4.16	5.61	4.59	6.61	3.48	4.43	—	3.73
16	3.90	4.15	3.16	4.87	3.90	4.06	4.85	6.62	3.36	4.32	—	4.59
17	3.93	3.59	4.15	4.86	3.15	3.39	4.82	6.61	4.15	4.41	—	4.77
18	3.96	3.14	4.83	4.83	3.51	4.56	4.79	5.99	4.28	4.69	—	4.48
19	3.97	3.86	4.88	3.75	3.42	4.97	4.85	7.16	4.27	5.00	—	5.12
20	3.26	4.42	4.87	3.30	5.93	4.94	4.22	6.64	4.30	—	—	5.75
21	3.10	4.40	4.87	4.52	5.51	4.93	3.63	5.75	4.94	—	—	3.95
22	4.70	4.41	3.85	5.17	4.74	4.93	4.55	3.85	4.08	—	—	3.22
23	4.46	4.42	3.29	5.18	5.13	3.76	4.81	4.60	3.56	—	—	4.26
24	4.18	3.67	4.16	5.21	4.13	3.30	4.78	4.99	4.67	—	3.56	4.43
25	4.04	3.12	3.91	5.26	5.27	4.67	4.76	5.60	5.18	—	3.20	5.23
26	4.00	4.23	4.19	3.96	6.53	5.70	4.74	3.98	5.27	—	4.10	5.40
27	3.27	4.41	4.49	3.29	6.45	5.68	3.78	5.07	5.72	—	4.38	5.49
28	3.12	4.47	4.54	3.97	6.38	4.82	3.80	5.75	6.41	—	4.34	3.85
29	4.06	4.51	3.59	4.06	—	5.87	4.46	6.63	4.39	—	4.38	3.29
30	4.37	4.48	3.25	4.35	—	6.07	7.39	6.60	3.44	—	4.46	4.23
31	4.36	—	4.24	4.99	—	4.08	—	6.60	—	—	3.48	—
MEAN	3.93	4.02	4.13	4.40	4.43	5.12	4.48	6.02	4.32	—	—	4.43
MAX	4.70	4.51	4.88	5.26	6.53	6.46	7.39	7.24	6.41	—	—	5.75
MIN	3.08	3.11	3.16	3.29	3.15	3.30	3.40	3.85	3.36	—	—	3.22

CAL YR 1990 MEAN 5.00 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 1990 TO SEPTEMBER 1991

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 31...	0700	990	80	77	7.2	7.2	17.0	3.0	8.0	84
NOV 27...	1100	E6100	99	95	7.5	7.4	15.0	23.0	9.9	100
DEC 20...	0730	1250	73	68	7.2	7.1	12.0	13.5	9.6	90
JAN 29...	0715	1450	100	100	7.3	7.3	9.0	8.0	10.2	90
FEB 27...	1340	8000	80	77	7.4	7.2	8.0	19.5	11.0	95
MAR 26...	1115	E7200	90	95	7.6	7.4	12.0	22.0	9.8	93
APR 23...	0900	E900	103	98	7.6	7.3	14.5	18.5	10.2	103
MAY 28...	0945	1300	105	105	7.2	7.3	19.0	25.5	9.0	99
JUN 26...	1340	1400	128	124	7.3	7.4	20.0	24.0	6.7	75
JUL 30...	1000	900	105	97	7.3	7.1	--	17.5	7.4	79
AUG 27...	1000	620	96	89	7.0	7.2	24.0	25.0	7.0	85
SEP 25...	1045	2050	105	102	--	7.1	21.0	25.5	6.9	80

MOBILE RIVER BASIN

02394980 ETOWAH RIVER NEAR EUHARLEE, GA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)
OCT 31...	8.0	--	0.7	170	28	26	8
NOV 27...	6.0	--	1.1	170	--	32	3
DEC 20...	10	--	0.1	75	32	23	10
JAN 29...	9.0	--	1.2	790	41	32	6
FEB 27...	15	--	5.2	1700	30	22	57
MAR 26...	10	--	0.1	170	41	35	4
APR 23...	9.0	--	0.2	170	42	35	6
MAY 28...	12	--	0.4	2300	42	40	11
JUN 26...	15	--	0.8	1100	--	42	11
JUL 30...	6.0	<5	0.5	220	--	33	5
AUG 27...	6.0	8	0.3	110	40	34	3
SEP 25...	43	14	1.3	7000	40	35	54

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 31...	0.220	0.030	--	--	--	0.070	1.2
NOV 27...	0.330	<0.030	--	--	--	0.080	1.8
DEC 20...	0.300	0.040	--	--	--	0.120	2.6
JAN 29...	0.430	<0.030	--	--	--	0.060	3.7
FEB 27...	0.420	<0.030	--	--	--	0.120	3.7
MAR 26...	0.480	0.350	--	--	--	0.080	14
APR 23...	0.450	<0.030	--	--	--	0.140	2.4
MAY 28...	0.450	<0.030	--	--	--	0.090	3.6
JUN 26...	0.430	<0.030	--	--	--	0.040	2.8
JUL 30...	0.320	0.050	0.15	0.20	0.52	0.040	1.8
AUG 27...	0.240	0.100	0.20	0.30	0.54	0.060	3.4
SEP 25...	0.280	0.050	0.05	0.10	0.38	0.060	4.2

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.--58 years (water years 1929-31, 1937-91), 2,565 ft³/s, 21.37 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, 12,000 ft³/s, May 20, gage height, 12.29 ft; minimum daily discharge, 505 ft³/s, Oct. 14.

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	1990	2450	994	2780	2710	6000	2250	6660	3140	1800	2650	1320
2	3000	2470	587	2660	1440	5250	1960	6060	1250	2370	2550	1370
3	2390	1220	1920	2740	1000	2670	1820	5860	2640	2310	1760	2360
4	2460	532	2850	2810	1560	5240	2620	5540	4140	2340	732	3400
5	2440	1500	2790	1780	1490	6180	1790	6510	3960	2650	1060	3650
6	1430	1860	2670	779	2200	5920	1030	7340	1660	3760	1530	3650
7	514	1810	2630	1700	2880	5950	957	5900	2120	1410	1590	3280
8	2330	2500	1350	3090	3300	5770	1830	4990	937	2060	1530	1730
9	2580	2560	603	3020	2030	3040	4350	6190	828	2870	1520	2020
10	1800	1790	1860	2650	775	1120	4250	6390	1490	2920	1200	2400
11	1830	766	2880	3040	1450	3020	3710	6790	1990	2900	1090	2370
12	1830	1300	2880	2450	2170	4560	3530	3780	1970	2820	2720	2520
13	928	1890	2880	1160	2170	4810	2370	4310	2170	1530	4340	2350
14	505	2130	2880	2230	2270	4940	1190	5940	2100	757	4310	1400
15	1020	2100	1610	3420	2210	4750	2240	6430	1380	1950	4320	1030
16	1730	2110	576	3400	1980	2710	3380	6430	826	2480	4220	2460
17	1780	1470	1880	3370	697	1020	3330	6400	1600	2560	4450	3250
18	1830	571	3240	3330	1200	2480	3340	5300	2340	3200	4130	2580
19	1840	1210	3340	2060	1050	3660	3370	6920	2340	3190	3020	3330
20	1250	2530	3340	804	4810	3630	2920	6690	2360	2600	2990	4620
21	527	2520	3300	2340	5080	3600	1290	5330	3240	940	2950	2560
22	2570	2510	2000	3910	2710	3590	2190	2000	2640	1540	2950	670
23	2600	2540	680	3910	4450	2100	3320	2530	1150	2350	2930	1840
24	2140	1880	2060	3970	2280	846	3280	3240	2270	2130	1910	2470
25	1940	553	1740	4040	3610	2590	3210	4610	3870	2860	646	3630
26	1890	2150	1790	2460	6100	4720	3190	2580	3970	2700	1400	3740
27	1150	2540	2660	836	6140	4840	2200	2940	4690	2540	2430	4190
28	574	2590	2750	1750	5970	3810	1380	4820	5950	2030	2370	2360
29	1790	2700	1670	2070	---	5130	2190	6420	3310	2660	2410	743
30	2450	2630	730	2300	---	6450	7400	6330	1000	2600	2540	1490
31	2470	---	1890	3630	---	2230	---	6340	---	2600	1660	---
TOTAL	55578	57382	65030	80489	75732	122626	81887	167570	73331	73427	75908	74783
MEAN	1793	1913	2098	2596	2705	3956	2730	5405	2444	2369	2449	2493
MAX	3000	2700	3340	4040	6140	6450	7400	7340	5950	3760	4450	4620
MIN	505	532	576	779	697	846	957	2000	826	757	646	670
CAL YR 1990	TOTAL 1305210		MEAN 3576		MAX 24900		MIN 490		MEAN† 3595		CFSTM† 2.21	
WTR YR 1991	TOTAL 1003743		MEAN 2750		MAX 7400		MIN 505		MEAN† 2806		CFSTM† 1.72	
											IN† 29.95	
											IN† 23.38	

†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. Datum of gage is 723.10 ft above National Geodetic Vertical Datum of 1929 (leveling by global positioning equipment system).

REMARKS.—No estimated daily discharges. Records good.

AVERAGE DISCHARGE.—11 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)
Feb. 20	1300	565	4.63	Mar. 29	1730	*1,020	*5.77

Minimum daily discharge, 14 ft³/s, Oct. 3, 5-7, 10, 13, 14, Nov. 1, 3, 4, 7, 8, Sept. 15, 17-22.

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	20	14	15	51	43	84	98	65	38	33	20	19
2	17	15	16	46	40	206	79	56	38	27	21	18
3	14	14	29	53	35	144	68	47	33	25	17	21
4	17	14	30	54	34	118	62	146	31	31	17	17
5	14	15	23	43	34	92	60	225	34	34	16	17
6	14	19	21	40	31	82	59	201	30	31	20	15
7	14	14	18	35	32	74	57	127	26	25	19	16
8	18	14	19	35	28	74	63	90	27	27	18	25
9	15	26	17	32	27	68	85	76	24	23	18	21
10	14	30	17	31	28	59	71	63	24	22	17	17
11	16	22	17	80	27	58	57	58	23	23	18	16
12	17	21	15	65	25	52	60	50	22	22	78	16
13	14	18	16	52	27	106	57	49	26	23	38	15
14	14	19	16	45	34	89	52	47	25	20	32	15
15	17	16	15	40	28	70	51	41	26	19	30	14
16	15	15	15	40	26	61	44	41	23	21	25	15
17	15	16	17	34	27	62	41	37	23	24	23	14
18	24	15	18	32	33	57	40	37	23	22	21	14
19	16	18	25	32	56	51	49	51	22	23	24	14
20	15	16	22	33	438	49	42	41	24	20	75	14
21	16	17	20	30	175	51	41	38	23	22	33	14
22	35	16	19	28	137	44	38	40	46	19	28	14
23	38	15	92	28	211	43	36	36	29	19	25	15
24	29	18	89	28	140	46	36	38	24	18	24	15
25	23	15	48	29	109	41	34	31	45	21	23	44
26	25	17	40	30	96	40	33	29	65	22	24	32
27	19	15	59	27	75	36	53	34	47	19	21	21
28	15	16	65	27	68	68	76	38	50	18	21	18
29	15	21	46	28	—	551	92	35	45	27	25	16
30	17	18	42	42	—	250	87	29	33	21	43	18
31	15	—	81	52	—	128	—	30	—	21	25	—
TOTAL	567	519	982	1222	2064	2954	1721	1926	949	722	839	540
MEAN	18.3	17.3	31.7	39.4	73.7	95.3	57.4	62.1	31.6	23.3	27.1	18.0
MAX	38	30	92	80	438	551	98	225	65	34	78	44
MIN	14	14	15	27	25	36	33	29	22	18	16	14
CFSM	.55	.52	.96	1.19	2.23	2.88	1.73	1.88	.96	.70	.82	.54
IN.	.64	.58	1.10	1.37	2.32	3.32	1.93	2.16	1.07	.81	.94	.61
CAL YR 1990	TOTAL 26084			MEAN 71.5	MAX 1650	MIN 13		CFSM 2.16		IN 29.31		
WTR YR 1991	TOTAL 15005			MEAN 41.1	MAX 551	MIN 14		CFSM 1.24		IN 16.86		

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.--No estimated daily discharges. Records fair. Flow regulated by Allatoona Reservoir since 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.)

AVERAGE DISCHARGE.--69 years (water years 1905-20, 1939-91), 2,944 ft³/s, 21.97 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, 12,600 ft³/s, Mar. 30, gage height, 22.03 ft, maximum gage height, 22.49 ft, Feb. 21 (backwater from Oostanaula River); minimum daily discharge, 684 ft³/s, Oct. 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	692	2510	1850	3000	3060	6240	2910	7570	4970	1140	2620	838
2	3400	2530	794	2870	2090	7030	2660	6740	1600	2540	2720	1700
3	2490	1980	1350	2870	1250	3950	2360	6420	1530	2490	2610	2410
4	2490	730	2880	3080	1450	4660	2360	5930	4130	2470	924	2490
5	2540	1200	3040	2650	1680	6990	2950	7960	4520	2660	884	3560
6	2530	1940	2650	1070	2240	6510	1700	7700	2920	3810	1670	3670
7	730	1910	2600	1290	3120	6560	1360	7690	2680	2790	1760	3550
8	840	2560	2300	2810	3270	6280	1590	5950	1290	1070	1670	4140
9	3330	2620	832	3440	2660	5220	4410	6760	1140	2910	1650	1360
10	1930	2250	1340	2940	997	1630	5310	7030	1100	3010	1680	2620
11	1940	981	2920	3080	1140	2510	4320	7220	2240	3020	1160	2530
12	1960	1140	2940	3280	2300	4980	4060	6000	2200	2960	2200	2490
13	1960	2000	2940	1590	2300	5250	3440	3290	2200	2910	3610	2600
14	723	2230	2940	1950	2390	5510	1700	6340	2400	981	4320	2460
15	684	2220	2390	3630	2340	5280	1560	6760	2250	930	4370	805
16	1860	2190	801	3580	2250	4120	3770	6680	1090	3300	4310	1770
17	1860	1950	1350	3590	1270	1470	3730	6660	1090	2620	4440	3280
18	1940	781	3290	3540	1020	2070	3680	5760	2480	2840	4190	2680
19	1920	989	3380	2860	1220	4040	3680	6580	2490	2890	3700	3040
20	1930	2590	3430	1050	4740	4020	4190	7330	2490	4060	3160	4520
21	753	2580	3430	1700	7460	3950	1730	6280	2660	1230	3070	4140
22	1060	2580	2820	3980	3920	3920	1450	3360	4080	1050	3040	886
23	3290	2620	887	4020	5890	3230	3640	2030	1470	2490	3010	850
24	2480	2350	2010	4090	3660	1170	3590	3160	1220	2460	3010	2520
25	2160	778	2610	4140	3970	1740	3530	4570	3910	2690	866	3450
26	2050	1530	2340	3400	5930	4350	3490	4380	4050	2970	857	3860
27	2030	2600	2790	1070	6600	5030	3570	1730	4690	2910	2490	4320
28	788	2620	3080	1460	6280	5100	1840	4940	5990	2000	2510	3890
29	1260	2720	2810	2180	---	6500	2380	6410	5190	2450	2450	972
30	2500	2680	1090	2270	---	9500	6610	6340	1300	2710	2630	921
31	2520	---	1430	3710	---	3710	---	6350	---	2780	2520	---
TOTAL	58640	60359	71314	86190	86497	142520	93570	181920	81370	77141	80101	78322
MEAN	1892	2012	2300	2780	3089	4597	3119	5868	2712	2488	2584	2611
MAX	3400	2720	3430	4140	7460	9500	6610	7960	5990	4060	4440	4520
MIN	684	730	794	1050	997	1170	1360	1730	1090	930	857	805

CAL YR 1990	TOTAL 1524299	MEAN 4176	MAX 31700	MIN 640	MEAN† 4195	CFSM† 2.30	IN† 31.30
WTR YR 1991	TOTAL 1097944	MEAN 3008	MAX 9500	MIN 684	MEAN† 3064	CFSM† 1.68	IN† 22.86

†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 1990 TO SEPTEMBER 1991

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 31...	0800	2530	93	91	7.5	7.4	15.5	5.0	8.5	86
NOV 29...	1210	1810	75	73	7.4	7.4	13.0	17.5	9.5	91
DEC 20...	0815	4610	80	78	7.5	7.4	12.0	11.5	9.6	90
JAN 29...	0800	1710	147	136	7.8	7.6	9.0	5.0	10.2	90
FEB 27...	1210	4900	76	75	7.4	7.2	8.0	18.5	10.8	93
MAR 27...	0830	6060	65	66	7.4	7.2	12.5	17.0	10.0	96
APR 24...	0600	6700	128	123	7.5	7.5	15.0	10.0	8.8	90
MAY 29...	0515	8050	77	77	7.1	7.1	20.0	20.5	8.1	91
JUN 26...	1200	3530	77	74	7.2	7.3	19.5	23.5	7.7	85
JUL 31...	0600	5530	103	96	7.1	7.4	22.5	18.0	8.1	87
AUG 28...	0500	5450	90	86	7.0	7.3	25.0	21.0	7.2	88
SEP 29...	1530	1400	110	103	7.5	7.5	27.0	38.0	8.0	103
SEP 26...	0615	5360	97	102	6.9	7.2	20.0	14.5	7.6	86

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)	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 31...	14	0.4	90	38	31	>20	0.250	<0.030	0.100	1.5
NOV 29...	10	1.2	80	30	23	10	0.250	<0.030	0.080	1.9
DEC 20...	16	0.2	330	28	25	23	0.330	0.030	0.120	22
JAN 29...	10	0.8	110	56	47	9	0.510	<0.030	0.060	5.0
FEB 27...	17	2.8	170	31	23	66	0.440	<0.030	0.100	3.3
MAR 27...	23	0.5	250	20	22	32	0.390	<0.030	0.040	1.6
APR 24...	27	1.1	460	58	44	55	0.510	0.040	0.130	2.4
MAY 29...	29	0.8	1100	34	25	46	0.360	<0.030	0.150	6.3
JUN 26...	18	0.6	330	—	25	25	0.370	<0.030	0.020	2.4
JUL 31...	19	0.4	340	38	36	58	0.310	<0.030	0.080	3.8
AUG 28...	21	1.9	490	36	33	52	0.300	0.080	0.110	4.6
SEP 29...	11	1.2	170	34	35	20	0.250	<0.030	0.230	<1.0
SEP 26...	120	1.8	7000	34	30	166	0.230	0.080	0.090	4.3

MOBILE RIVER BASIN

02397000 COOSA RIVER NEAR ROME, GA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.32	12.66	12.74	15.19	13.93	15.46	20.48	19.95	14.29	12.82	12.90	12.24
2	12.69	12.59	11.90	15.23	13.46	17.40	19.21	19.30	12.88	13.09	12.78	12.63
3	12.33	12.49	11.95	14.89	12.86	17.42	16.61	18.30	12.78	12.98	12.69	12.84
4	12.38	11.75	13.15	14.62	12.76	18.48	15.08	16.53	13.67	13.03	11.92	12.80
5	12.56	11.85	13.61	14.52	12.85	19.19	15.08	18.66	14.01	13.46	11.83	13.16
6	12.66	12.38	13.44	13.79	13.02	18.50	14.45	21.73	13.44	13.72	12.16	13.21
7	11.84	12.38	13.17	13.53	13.32	17.31	14.26	22.97	13.17	13.35	12.19	13.19
8	11.82	12.65	13.10	13.89	13.32	16.59	14.12	21.91	12.60	12.62	12.15	13.99
9	13.05	12.76	12.28	13.95	13.17	16.08	15.04	20.82	12.42	13.23	12.17	12.86
10	12.43	12.95	12.26	13.79	12.33	14.15	15.71	18.95	12.38	13.22	12.15	12.71
11	12.42	12.83	13.02	14.44	12.26	13.76	15.25	17.49	12.78	13.16	11.88	12.49
12	12.46	12.87	13.05	15.59	12.80	14.42	14.70	16.58	12.61	13.11	12.42	12.41
13	12.43	12.93	13.03	15.03	12.79	14.81	14.41	14.47	12.53	13.08	13.12	12.44
14	11.84	12.74	13.02	14.52	13.02	15.15	13.61	15.76	13.03	12.23	13.57	12.36
15	11.81	12.62	12.90	14.43	13.36	15.13	13.44	15.91	13.14	12.12	13.49	11.51
16	12.40	12.56	11.95	14.32	13.47	14.58	14.10	15.78	12.65	13.00	13.46	11.96
17	12.40	12.50	12.01	14.25	12.84	13.39	14.12	15.65	12.48	12.78	13.43	12.63
18	12.89	11.83	13.06	14.15	12.70	13.45	14.03	15.65	12.98	12.95	13.36	12.39
19	13.20	11.80	13.27	13.91	14.27	14.29	14.25	15.69	12.96	13.02	13.30	12.69
20	13.25	12.62	13.72	12.91	20.89	14.25	15.06	15.91	12.90	13.50	13.04	13.34
21	12.40	12.66	13.94	12.80	24.92	14.14	14.35	14.84	12.86	12.45	12.90	13.30
22	12.25	12.66	13.59	13.75	24.17	14.01	13.83	13.58	13.42	12.30	12.82	11.70
23	14.05	12.65	14.36	13.72	24.00	13.84	14.38	12.81	12.57	12.84	12.75	11.60
24	14.33	12.61	19.90	13.90	23.56	13.18	14.21	13.44	12.54	12.77	12.73	12.53
25	13.80	11.75	21.06	13.96	22.43	13.12	13.91	13.88	13.40	12.84	11.76	13.06
26	13.03	11.82	20.05	13.83	20.64	13.95	13.59	14.09	13.77	13.14	11.74	13.49
27	12.66	12.56	20.15	12.66	17.46	14.26	13.77	12.95	14.48	13.05	12.50	13.57
28	11.97	12.57	20.42	12.46	16.09	14.50	14.80	14.07	15.91	12.82	12.58	13.32
29	11.92	12.65	18.40	12.85	—	17.97	16.67	14.67	15.65	12.93	12.88	11.91
30	12.64	12.77	14.64	13.05	—	23.50	18.73	14.63	13.31	12.99	13.15	11.76
31	12.66	—	14.47	13.88	—	22.08	—	14.59	—	13.10	13.02	—
MEAN	12.58	12.48	14.44	13.99	15.81	15.75	15.04	16.50	13.25	12.96	12.67	12.67
MAX	14.33	12.95	21.06	15.59	24.92	23.50	20.48	22.97	15.91	13.72	13.57	13.99
MIN	11.32	11.75	11.90	12.46	12.26	13.12	13.44	12.81	12.38	12.12	11.74	11.51
WTR YR 1991	MEAN 14.01		MAX 24.92		MIN 11.32							

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 with the analyzing code 80020 are provided by the U.S. Geological Survey. Laboratory analyses with the analyzing 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, and Dissolved Oxygen, are by the U.S. Geological Survey. Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Present data above the $\mu\text{g/L}$ level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey will begin using new trace-element protocols in the near future.

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, 28.0°C, Aug. 6, 7, 8, 9; minimum recorded, 6.0°C, Jan. 24, Feb. 17, 18, 19.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 31...	1000	81341	4080	108	105	7.6	7.4	15.0	12.5	8.5	85
NOV 29...	1130	81341	3390	115	113	7.5	7.4	14.0	17.0	9.0	88
DEC 20...	1030	81341	6920	128	124	8.0	7.5	12.0	12.0	8.7	82
JAN 29...	1150	81341	4680	142	143	7.8	7.5	8.0	11.0	10.0	88
FEB 27...	1050	81341	15500	89	88	7.4	7.1	9.0	17.5	10.1	89
MAR 27...	0945	81341	8960	80	82	7.6	7.4	13.5	21.0	10.2	101
APR 24...	0700	81341	9570	96	92	7.5	7.5	15.0	12.0	8.8	89
MAY 28...	1030	81341	8650	93	92	7.3	7.3	21.0	27.0	8.0	91
JUN 26...	1010	81341	8110	121	117	7.5	7.4	20.5	21.5	8.5	96
JUL 31...	0745	81341	6600	113	108	7.5	7.3	25.0	18.5	7.4	80
AUG 28...	0700	81341	5450	120	119	7.7	7.4	25.0	22.0	8.2	101
SEP 23...	1400	80020	1850	153	--	7.5	--	21.5	28.5	7.0	80
26...	0815	81341	7290	--	117	7.5	7.3	20.0	14.0	6.8	--

MOBILE RIVER BASIN

02397000 COOSA RIVER NEAR ROME, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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)	HARD- NESS TOTAL (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)	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 31...	81341	13	0.5	490	38	35	--	0.310	<0.030	0.130	1.8
NOV 29...	81341	12	1.5	490	46	38	--	0.350	0.060	0.140	2.2
DEC 20...	81341	22	0.2	700	50	44	29	0.380	<0.030	0.260	3.7
JAN 29...	81341	8.0	0.8	210	66	54	7	0.510	<0.030	0.060	6.4
FEB 27...	81341	21	3.0	7000	36	28	58	0.430	<0.030	0.110	4.5
MAR 27...	81341	23	0.8	790	30	27	32	0.380	<0.030	0.210	3.1
APR 24...	81341	18	0.5	110	42	34	29	0.410	<0.030	0.180	2.7
MAY 28...	81341	18	0.5	790	36	35	26	0.400	<0.030	0.170	<1.0
JUN 26...	81341	28	0.9	3100	--	41	30	0.440	<0.030	0.190	3.2
JUL 31...	81341	13	0.6	700	42	38	--	0.350	0.050	0.200	2.5
AUG 28...	81341	10	0.6	490	44	41	--	0.310	<0.030	0.170	3.8
SEP 23...	80020	--	--	--	--	--	--	--	--	--	--
26...	81341	39	1.2	3000	46	39	--	0.310	<0.030	0.160	3.9

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	ANTI- MONY, TOTAL (UG/L AS SB)	ANTI- MONY, DIS- SOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
SEP 23...	1400	80020	<1	<1	1	<1	<10	<10	<1	<1.0	<1

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	CHROMIUM, DIS-SOLVED (UG/L AS CR)	CHROMIUM, HEXA-VALENT, DIS. (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)
SEP 23...	1400	80020	<1	<1	<1	2	2	<1	<0.10	<0.1	1

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	THAL- LIUM, DIS- SOLVED (UG/L AS TL)
SEP 23...	1400	80020	< 1	< 1	< 1	< 1	< 1.0	10	< 10	< 0.010	2

[illegible]

MOBILE RIVER BASIN

02397000 COOSA RIVER NEAR ROME, GA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	CHLORO- ETHANE TOTAL (UG/L)	ETHYL- BENZENE TOTAL (UG/L)	METHYL- BROMIDE TOTAL (UG/L)	METHYL- CHLO- RIDE TOTAL (UG/L)	METHYL- ENE CHLO- RIDE TOTAL (UG/L)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L)
SEP 23...	1400	80020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L)	1,1,2,2 TETRA- CHLORO- ETHANE TOTAL (UG/L)	1,2-DI- CHLORO- BENZENE TOTAL (UG/L)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L)	1,2- TRANSDI CHLORO- ETHENE TOTAL (UG/L)	1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	1,3-DI- CHLORO- BENZENE TOTAL (UG/L)	1,4-DI- CHLORO- BENZENE TOTAL (UG/L)
SEP 23...	1400	80020	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	2- CHLORO- ETHYL- VINYL- ETHER TOTAL (UG/L)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	VINYL CHLO- RIDE TOTAL (UG/L)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L)	STYRENE TOTAL (UG/L)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L)	XYLENE TOTAL WATER WHOLE TOT REC (UG/L)
SEP 23...	1400	80020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2

MOBILE RIVER BASIN

02397000 COOSA RIVER NEAR ROME, GA.--Continued

TEMPERATURE, WATER (DEG. 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	23.0	22.5	16.0	14.5	12.0	11.0	---	---	9.5	8.5	10.0	9.0
2	23.5	22.0	16.5	15.0	11.5	11.0	---	---	8.5	8.0	11.5	9.5
3	23.0	22.0	16.5	15.0	12.5	11.5	---	---	8.5	8.0	12.5	11.5
4	23.5	22.5	15.5	15.0	13.0	11.5	9.5	9.5	9.5	8.5	12.5	11.5
5	23.0	22.0	15.5	15.0	11.5	10.5	9.5	9.5	10.0	9.5	11.5	10.0
6	22.5	21.5	16.0	15.0	11.0	10.0	10.0	9.5	11.0	10.0	10.5	10.0
7	22.0	21.5	15.0	14.5	10.5	9.5	11.0	10.0	11.0	10.5	11.0	10.5
8	22.0	21.5	14.5	14.5	10.5	9.5	11.5	10.5	10.5	9.5	11.5	10.5
9	23.0	22.0	15.0	13.0	9.5	8.5	10.5	10.0	10.0	9.0	10.5	10.0
10	23.0	22.5	13.5	13.0	9.0	8.5	10.5	10.0	10.0	9.5	10.5	10.0
11	22.5	21.5	13.0	12.0	10.0	8.5	10.0	10.0	10.0	10.0	11.5	10.0
12	21.5	21.0	12.0	11.5	10.5	9.5	10.0	10.0	10.5	9.5	11.5	10.5
13	21.5	21.0	12.5	11.5	11.0	9.5	10.0	9.5	9.5	9.5	12.5	11.0
14	21.0	20.5	13.0	12.0	11.5	10.5	9.0	8.5	10.0	9.5	12.0	11.0
15	20.5	20.0	13.5	12.5	11.5	11.0	8.5	7.5	9.5	8.0	11.5	10.5
16	20.5	19.5	14.0	12.5	11.0	11.0	8.5	8.0	8.0	7.0	12.0	11.0
17	21.5	20.0	14.0	13.0	11.5	11.0	9.0	9.0	7.0	6.0	12.0	11.5
18	21.5	20.5	13.5	12.0	12.5	11.5	9.5	8.5	6.0	6.0	13.0	11.5
19	20.5	19.0	12.0	11.5	12.5	12.0	9.0	9.0	8.0	6.0	13.0	12.0
20	19.0	18.0	13.0	12.0	12.0	12.0	9.0	9.0	11.0	8.5	13.5	12.0
21	18.0	17.5	13.5	12.5	12.0	11.5	9.0	8.5	11.5	11.0	13.5	12.0
22	18.5	18.0	14.0	13.0	12.5	12.0	8.5	7.5	11.5	11.0	14.5	13.0
23	19.0	18.0	14.5	13.5	14.5	12.5	7.5	6.5	11.0	10.5	15.5	14.0
24	18.0	17.5	14.0	13.5	14.5	12.5	7.0	6.0	11.0	10.5	15.5	15.0
25	17.5	16.0	13.5	13.0	12.5	10.0	7.0	6.5	11.5	11.0	16.5	15.0
26	15.5	15.0	13.0	12.5	10.0	8.5	7.5	6.5	11.5	10.0	16.5	14.0
27	15.5	14.5	14.0	13.0	8.5	7.5	7.0	6.5	10.0	9.0	15.5	13.5
28	14.5	14.0	15.5	14.5	---	---	8.0	7.0	10.0	9.0	15.5	13.5
29	14.5	13.5	15.0	13.0	---	---	9.0	8.0	---	---	15.5	14.5
30	14.5	13.5	13.0	12.0	---	---	9.0	8.0	---	---	14.5	14.0
31	16.0	14.5	---	---	---	---	9.5	9.0	---	---	14.0	13.0
MONTH	23.5	13.5	16.5	11.5	14.5	7.5	11.5	6.0	11.5	6.0	16.5	9.0

MOBILE RIVER BASIN

02397000 COOSA RIVER NEAR ROME, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[illegible]

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.

REMARKS.--Estimated daily discharges: Feb. 5-8, Aug. 26-28. Records fair to poor, except those for periods of estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--10 years, 85.4 ft³/s, 17.34 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)
Mar. 29	1545	*1,900	*10.86	No other peak greater than base discharge.			

Minimum daily discharge, 16 ft³/s, Oct. 1-3, 15-17, 19-21, 29, Nov. 1-5.

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	16	16	20	35	85	194	171	151	102	66	19	25
2	16	16	19	30	72	308	132	111	137	52	20	23
3	16	16	27	34	66	536	105	89	100	43	19	21
4	18	16	37	42	61	308	91	372	91	38	19	21
5	19	16	25	36	60	191	87	698	93	80	18	20
6	18	18	22	31	50	150	84	461	75	53	18	19
7	18	20	21	30	40	142	93	259	66	38	19	19
8	18	21	20	29	30	118	161	183	60	37	18	25
9	19	33	20	26	27	102	260	159	56	34	18	22
10	19	38	19	26	33	90	231	192	50	31	20	20
11	19	28	18	79	31	85	135	303	46	28	22	19
12	20	25	18	71	30	82	128	196	43	26	28	18
13	19	23	18	56	33	95	122	155	42	24	23	18
14	17	22	18	48	48	87	105	132	46	23	26	18
15	16	21	18	42	41	80	93	115	40	22	29	18
16	16	21	18	44	35	76	84	102	36	21	25	18
17	16	21	17	37	40	74	79	92	42	28	23	18
18	21	23	19	33	49	75	79	88	69	35	22	19
19	16	24	21	34	71	71	107	530	57	33	21	31
20	16	25	20	38	657	68	84	178	41	27	21	27
21	16	23	20	34	323	66	78	138	67	23	21	54
22	35	23	20	30	368	65	74	120	78	22	21	24
23	40	24	43	27	514	65	71	109	57	21	21	23
24	25	26	56	32	255	63	67	98	40	20	20	60
25	22	29	30	41	182	61	62	91	37	20	23	127
26	23	26	24	41	146	61	62	86	76	32	26	58
27	22	19	28	39	117	60	93	212	66	38	25	40
28	21	23	32	39	101	113	223	234	238	22	24	33
29	16	28	29	37	---	1040	255	260	129	24	23	30
30	17	21	27	133	---	564	235	149	84	26	30	30
31	17	---	41	140	---	244	---	117	---	19	28	---
TOTAL	607	685	765	1394	3565	5334	3651	6180	2164	1006	690	898
MEAN	19.6	22.8	24.7	45.0	127	172	122	199	72.1	32.5	22.3	29.9
MAX	40	38	56	140	657	1040	260	698	238	80	30	127
MIN	16	16	17	26	27	60	62	86	36	19	18	18
CFSM	.29	.34	.37	.67	1.90	2.57	1.82	2.98	1.08	.49	.33	.45
IN.	.34	.38	.43	.78	1.98	2.97	2.03	3.44	1.20	.56	.38	.50
CAL YR 1990	TOTAL 47638		MEAN 131		MAX 4580	MIN 16	CFSM 1.96		IN 26.49			
WTR YR 1991	TOTAL 26939		MEAN 73.8		MAX 1040	MIN 16	CFSM 1.10		IN 14.98			

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 1990 TO SEPTEMBER 1991

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										
31...	0915	27	279	295	7.7	--	12.0	10.0	7.3	69
NOV										
29...	1030	62	288	293	7.7	7.7	13.0	13.5	6.7	64
DEC										
20...	0945	58	271	235	7.8	7.4	13.0	11.0	5.2	50
JAN										
29...	1115	175	260	257	7.9	7.7	11.0	13.0	7.8	73
FEB										
27...	1130	260	180	182	7.7	7.5	10.5	18.0	10.0	92
MAR										
27...	0745	70	240	260	7.6	7.7	16.0	19.5	7.1	74
APR										
23...	1000	120	220	224	8.0	7.7	15.0	22.0	9.6	99
MAY										
28...	1100	390	136	138	7.4	7.4	22.0	32.0	7.9	92
JUN										
26...	1120	145	240	238	7.7	7.8	19.0	22.0	9.6	106
JUL										
31...	0715	72	250	252	7.6	7.6	24.0	16.0	6.2	64
AUG										
28...	0630	78	272	270	7.5	7.6	22.0	19.5	5.6	65
SEP										
26...	0730	140	--	175	7.3	7.5	17.0	15.5	6.5	--
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)	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										
31...	3.0	0.3	490	140	--	129	0.660	<0.030	0.220	2.0
NOV										
29...	3.0	1.4	35000	130	128	--	0.370	0.210	0.120	2.7
DEC										
20...	5.0	0.7	1700	--	124	4	0.380	0.160	0.180	5.0
JAN										
29...	4.0	0.8	460	150	118	4	0.520	0.050	0.070	10
FEB										
27...	8.0	1.9	17000	--	75	10	0.490	0.060	0.080	3.6
MAR										
27...	5.0	0.9	13000	130	121	5	0.100	<0.030	0.120	3.2
APR										
23...	4.0	0.9	54000	110	100	3	0.600	<0.030	0.130	3.1
MAY										
28...	31	1.6	14000	60	60	49	0.300	0.040	0.120	6.8
JUN										
26...	7.0	0.9	11000	110	109	8	0.620	0.070	0.190	3.9
JUL										
31...	6.0	0.2	2300	44	118	--	0.670	<0.030	0.180	3.4
AUG										
28...	2.0	0.4	110	130	123	--	0.490	0.070	0.160	4.2
SEP										
26...	21	1.8	12450	80	69	--	0.510	0.050	0.160	8.4

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, 198 microsiemens, Aug. 13; minimum, 70 microsiemens, Feb. 21, 22.

pH: Maximum recorded, 9.0 units, Aug. 5; minimum, 7.1 units, on several days in Dec., Mar., Apr., May, June, and Sept.

WATER TEMPERATURE: Maximum, 32.0°C, Aug. 5, 7, 8; minimum recorded, 6.5 0°C, Jan. 25.

DISSOLVED OXYGEN: Maximum recorded, 11.5 mg/L, Jan. 25, 26, 27, 28; minimum, 4.1 mg/L Sept. 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 30...	1100	140	145	7.5	7.5	18.0	12.0	8.0	85
NOV 27...	1100	147	141	7.6	7.4	17.5	21.0	8.3	88
DEC 26...	1100	83	83	7.2	7.1	10.5	2.5	8.1	73
FEB 01...	1030	137	132	7.8	7.3	9.5	5.0	10.5	92
MAR 05...	1030	103	102	7.6	7.0	11.5	7.0	9.2	86
APR 30...	0930	120	114	7.3	7.2	18.0	18.0	7.1	76
MAY 08...	1015	86	85	7.1	7.1	18.0	21.5	7.4	78
30...	0930	111	112	7.5	7.4	23.0	25.5	7.2	86
JUN 26...	0930	165	162	7.5	7.5	24.0	20.0	6.2	75
JUL 31...	0830	145	140	7.5	7.3	27.5	20.0	6.7	75
AUG 28...	0740	165	164	7.5	7.4	27.0	25.0	6.9	88
SEP 26...	0850	131	135	7.4	7.3	21.0	21.5	6.5	--

MOBILE RIVER BASIN

02397530 COOSA RIVER NEAR COOSA, GA.—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)
OCT 30...	16	29	2.2	50	46	44	15
NOV 27...	12	11	1.5	<20	--	45	13
DEC 26...	110	31	3.3	7900	30	28	66
FEB 01...	22	16	1.0	3300	64	46	22
MAR 05...	64	15	0.9	1100	43	37	74
APR 30...	44	16	1.4	1300	--	40	26
MAY 08...	44	<5	1.5	2300	44	31	50
30...	25	14	0.7	800	44	38	25
JUN 26...	22	11	1.2	790	60	58	17
JUL 31...	14	8	0.8	65	50	46	14
AUG 28...	8.0	19	0.8	20	50	54	8
SEP 26...	11	15	0.8	790	46	44	13

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 30...	0.240	0.060	0.14	0.20	0.44	0.140	4.4
NOV 27...	0.360	<0.030	--	0.20	0.56	0.160	3.2
DEC 26...	0.270	0.040	0.36	0.40	0.67	0.340	11
FEB 01...	0.440	0.070	0.23	0.30	0.74	0.160	6.0
MAR 05...	0.360	0.070	0.13	0.20	0.56	0.120	5.7
APR 30...	0.350	0.040	0.36	0.40	0.75	0.270	7.4
MAY 08...	0.270	0.030	0.27	0.30	0.57	0.130	6.3
30...	0.420	0.040	0.06	0.10	0.52	0.150	3.0
JUN 26...	0.500	0.040	0.16	0.20	0.70	0.290	3.2
JUL 31...	0.370	0.040	0.06	0.10	0.47	0.120	2.5
AUG 28...	0.360	<0.030	--	0.20	0.56	0.160	4.8
SEP 26...	0.370	0.040	0.16	0.20	0.57	0.160	7.1

MOBILE RIVER BASIN

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, 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	148	138	164	121	142	125	124	113	141	129	107	94
2	164	132	126	118	142	133	120	107	143	132	111	95
3	185	152	126	121	153	131	112	96	146	139	109	96
4	178	127	128	119	191	156	109	101	151	144	109	99
5	145	121	128	123	167	131	111	107	160	151	104	91
6	162	133	147	126	140	127	116	109	167	156	100	89
7	157	137	168	146	147	132	117	113	159	144	103	91
8	146	137	163	145	151	129	136	117	155	138	105	93
9	162	138	143	127	138	124	142	122	142	133	108	93
10	157	132	140	129	141	125	133	120	142	128	109	96
11	170	113	136	126	144	136	135	128	156	131	125	109
12	144	114	144	125	156	136	131	118	171	156	151	125
13	142	128	166	142	137	120	125	120	181	164	149	111
14	145	132	165	156	134	121	125	122	183	152	122	112
15	149	135	165	141	131	120	137	121	154	147	121	108
16	167	148	143	134	130	120	135	117	148	139	120	109
17	166	138	143	135	139	123	125	117	153	144	121	109
18	172	137	142	132	154	135	---	---	151	143	132	120
19	148	129	137	131	169	129	---	---	155	136	146	131
20	137	113	163	136	142	126	---	---	136	90	148	112
21	129	114	167	147	151	125	---	---	89	70	124	114
22	153	129	174	133	153	110	---	---	78	70	124	114
23	162	128	139	131	142	124	---	---	83	77	124	114
24	149	103	139	130	128	84	---	---	82	75	124	113
25	122	107	134	126	85	79	127	119	92	83	141	119
26	124	114	137	131	85	77	123	114	101	90	147	135
27	131	117	160	135	78	74	123	112	102	91	158	116
28	129	117	162	143	86	73	136	113	106	92	---	---
29	134	129	176	133	97	84	152	134	---	---	---	---
30	148	128	142	130	108	99	173	148	---	---	94	82
31	148	135	---	---	117	109	158	143	---	---	83	80
MONTH	185	103	176	118	191	73	173	96	183	70	158	80

MOBILE RIVER BASIN

02397530 COOSA RIVER NEAR COOSA, GA--Continued

PH (STANDARD UNITS), 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	8.0	7.4	7.8	7.6	7.7	7.6	7.6	7.4	7.8	7.8	7.7	7.5
2	7.7	7.4	7.6	7.5	7.7	7.6	7.5	7.5	7.8	7.8	7.7	7.5
3	7.6	7.4	7.6	7.5	7.7	7.7	7.5	7.4	7.8	7.7	7.5	7.5
4	7.6	7.3	7.8	7.6	7.8	7.6	7.5	7.4	7.7	7.7	7.6	7.5
5	7.5	7.3	7.6	7.5	7.8	7.7	7.5	7.5	7.7	7.7	7.6	7.5
6	7.6	7.5	7.6	7.5	7.7	7.7	7.6	7.5	7.8	7.7	7.6	7.5
7	7.7	7.5	7.6	7.5	7.7	7.7	7.6	7.5	7.8	7.7	7.6	7.5
8	8.3	7.5	7.7	7.5	7.8	7.7	7.7	7.5	7.8	7.7	7.6	7.5
9	7.6	7.4	7.6	7.5	7.8	7.7	7.7	7.6	7.8	7.7	7.7	7.5
10	7.5	7.4	7.6	7.5	7.8	7.7	7.8	7.6	7.8	7.8	7.6	7.6
11	7.6	7.3	7.6	7.5	7.8	7.7	7.7	7.6	7.9	7.8	7.6	7.6
12	7.5	7.3	7.5	7.5	8.0	7.8	7.6	7.5	7.9	7.9	7.8	7.6
13	7.5	7.4	7.5	7.5	7.9	7.8	7.6	7.5	8.1	7.9	7.8	7.6
14	7.7	7.4	7.7	7.5	7.8	7.7	7.6	7.6	8.1	8.0	7.6	7.5
15	8.4	7.4	7.6	7.6	7.8	7.7	7.7	7.6	8.0	8.0	7.6	7.6
16	7.6	7.4	7.6	7.5	7.7	7.6	7.7	7.6	8.0	8.0	7.6	7.6
17	7.5	7.5	7.6	7.5	7.7	7.7	7.6	7.6	8.0	8.0	7.6	7.6
18	7.7	7.5	7.6	7.5	7.7	7.6	---	---	8.0	8.0	7.6	7.5
19	7.6	7.5	7.6	7.5	7.8	7.7	---	---	8.0	7.9	7.7	7.6
20	7.5	7.3	7.6	7.5	7.9	7.6	---	---	7.9	7.4	7.8	7.6
21	7.4	7.3	7.7	7.5	7.8	7.6	---	---	7.4	7.2	7.7	7.6
22	7.4	7.3	7.7	7.5	7.8	7.6	---	---	7.2	7.2	7.6	7.5
23	7.5	7.4	7.6	7.5	7.6	7.4	---	---	7.3	7.2	7.6	7.5
24	7.6	7.3	7.6	7.5	7.5	7.1	---	---	7.3	7.2	7.6	7.5
25	7.4	7.3	7.6	7.6	7.2	7.1	7.8	7.8	7.3	7.3	7.6	7.5
26	7.5	7.3	7.6	7.6	7.2	7.2	7.8	7.7	7.4	7.3	7.6	7.5
27	7.5	7.4	7.7	7.6	7.3	7.2	7.8	7.8	7.5	7.3	7.8	7.6
28	7.5	7.4	7.8	7.6	7.3	7.2	7.8	7.8	7.6	7.4	---	---
29	7.6	7.5	7.9	7.7	7.3	7.3	7.9	7.8	---	---	---	---
30	7.6	7.5	7.7	7.6	7.3	7.2	8.0	7.8	---	---	7.3	7.2
31	7.7	7.5	---	---	7.4	7.3	7.9	7.8	---	---	7.2	7.1
MONTH	8.4	7.3	7.9	7.5	8.0	7.1	8.0	7.4	8.1	7.2	7.8	7.1

[illegible]

MOBILE RIVER BASIN

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

TEMPERATURE, WATER (DEG. 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	26.0	25.0	17.0	15.5	16.5	14.5	11.0	10.5	10.0	9.5	10.5	10.0
2	26.5	24.5	17.0	16.0	15.0	13.5	10.5	10.0	9.5	9.0	11.0	10.0
3	27.5	24.5	18.0	16.5	15.0	14.0	10.0	10.0	10.0	9.0	12.5	11.0
4	26.0	24.0	20.5	17.5	15.0	13.5	10.0	9.5	10.0	9.0	12.5	12.0
5	27.0	24.5	18.5	17.0	14.0	12.5	10.5	10.0	10.5	9.5	12.0	10.5
6	26.5	24.5	19.0	17.5	12.5	11.5	10.5	10.0	11.5	10.0	11.0	10.5
7	26.0	24.5	19.5	17.0	12.0	11.5	11.0	10.5	12.0	11.0	11.5	10.5
8	26.0	24.5	18.5	17.0	12.5	11.0	11.5	11.0	12.0	11.0	12.0	11.0
9	26.0	24.5	18.0	16.0	12.0	10.5	12.0	11.5	11.5	11.0	11.0	10.5
10	26.0	23.5	16.5	15.5	12.5	11.0	11.5	11.5	12.0	10.5	11.0	10.0
11	25.5	23.5	16.0	14.5	12.5	11.5	11.5	10.5	11.5	11.0	11.0	10.5
12	26.0	24.0	15.0	14.0	12.5	10.5	10.5	10.0	12.5	11.0	12.0	10.5
13	25.5	23.5	15.0	13.0	13.0	11.0	10.0	9.5	12.0	11.5	12.0	11.0
14	25.5	23.5	15.0	13.5	13.0	12.0	9.5	9.0	12.0	11.0	12.0	11.5
15	25.5	23.5	15.5	14.5	13.0	12.0	9.0	8.5	11.0	9.5	12.0	11.0
16	25.5	24.0	16.0	15.0	12.5	12.0	9.0	8.0	9.5	9.0	12.0	11.0
17	25.0	23.0	16.0	15.5	13.0	12.0	9.5	9.0	9.0	8.0	12.0	11.5
18	24.0	22.5	17.0	15.0	14.0	12.5	---	---	8.0	7.5	12.5	11.5
19	23.5	22.5	15.5	15.0	14.0	13.0	---	---	8.0	7.5	13.0	12.0
20	22.5	21.0	16.5	15.5	14.0	11.0	---	---	10.5	8.0	13.0	12.5
21	21.0	20.0	16.5	14.5	13.0	12.5	---	---	11.5	10.5	13.5	13.0
22	20.0	19.5	16.0	15.0	14.0	12.5	---	---	11.5	11.0	14.0	13.5
23	21.0	19.0	16.5	15.5	14.5	13.5	---	---	11.5	11.0	14.5	14.0
24	20.5	19.0	16.0	15.5	13.5	13.0	---	---	11.0	11.0	16.0	14.5
25	19.0	17.5	18.0	16.0	13.0	11.5	7.5	6.5	11.5	10.5	17.0	15.0
26	18.0	17.5	16.0	16.0	11.0	9.5	8.0	7.0	11.5	10.5	17.0	16.0
27	18.0	17.0	18.5	16.0	9.5	8.5	7.5	7.0	10.5	10.0	16.5	15.5
28	18.0	17.0	18.0	15.5	8.0	7.5	7.5	7.0	10.5	10.0	---	---
29	17.5	16.0	17.0	15.5	8.5	7.5	9.0	7.5	---	---	---	---
30	18.5	17.0	17.0	15.0	10.0	8.5	10.5	8.5	---	---	15.0	14.0
31	17.5	16.0	---	---	10.5	9.5	10.0	9.0	---	---	14.5	13.5
MONTH	27.5	16.0	20.5	13.0	16.5	7.5	12.0	6.5	12.5	7.5	17.0	10.0

[illegible]

MOBILE RIVER BASIN

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

OXYGEN, DISSOLVED (MG/L), 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	8.8	6.6	8.9	8.7	9.2	8.4	9.9	9.6	10.7	10.4	10.6	10.4
2	8.2	6.3	8.8	8.6	9.2	8.7	10.1	9.8	10.7	10.4	10.4	10.1
3	7.5	6.2	8.7	8.5	9.5	9.0	10.4	10.1	10.7	10.6	10.1	9.1
4	7.4	6.4	9.3	8.4	9.1	8.8	10.4	10.2	10.8	10.6	9.1	8.9
5	7.2	6.5	9.0	8.3	9.4	9.0	10.5	10.3	10.8	10.7	9.8	9.0
6	7.1	6.7	8.5	8.0	9.6	9.2	10.5	10.3	10.7	10.4	10.0	9.5
7	7.9	6.6	8.4	7.9	9.6	9.0	10.3	10.1	10.4	10.0	10.1	9.8
8	9.5	7.1	8.0	7.8	9.9	9.4	10.2	9.9	10.1	9.9	10.0	9.8
9	7.3	6.3	8.6	8.0	10.0	9.8	9.9	9.8	10.4	10.1	10.3	9.9
10	7.0	6.3	8.6	8.4	10.0	9.6	10.1	9.8	10.5	10.2	10.3	10.1
11	7.1	6.3	8.5	8.2	10.4	10.0	10.2	10.0	10.5	10.3	10.3	10.1
12	6.6	6.3	8.5	8.3	10.7	10.3	10.0	9.9	10.3	10.2	10.4	10.1
13	7.0	6.4	8.4	8.1	10.5	10.1	9.9	9.8	10.4	10.2	10.2	10.0
14	7.9	6.6	8.8	8.1	10.3	7.0	10.0	9.9	10.5	10.3	10.1	9.7
15	9.8	6.7	8.8	8.6	10.1	9.6	10.6	10.1	10.5	10.3	10.0	9.7
16	7.3	6.6	8.9	8.7	10.1	9.9	10.6	10.5	10.5	10.4	10.3	9.8
17	7.4	6.6	8.9	8.7	10.1	9.1	10.6	10.6	10.9	10.5	10.2	10.0
18	7.6	7.3	9.0	8.9	9.9	9.0	---	---	11.2	10.9	10.0	9.8
19	7.4	6.7	9.1	8.8	9.8	9.1	---	---	11.4	11.1	9.8	9.7
20	6.9	6.7	8.8	8.5	9.7	9.0	---	---	11.3	9.8	9.8	9.6
21	7.0	6.4	9.3	8.4	10.0	9.0	---	---	9.8	9.2	9.8	9.6
22	7.1	6.2	9.4	8.9	9.5	8.2	---	---	9.2	8.9	9.8	9.4
23	7.3	6.8	9.0	8.7	9.2	8.6	---	---	9.1	8.9	9.5	9.2
24	7.5	7.1	8.8	8.6	8.6	7.1	---	---	9.3	9.1	9.3	8.9
25	7.1	6.6	9.0	8.6	7.8	7.3	11.5	11.4	9.4	9.2	8.9	8.3
26	7.3	6.7	8.7	8.4	8.3	7.8	11.5	11.4	9.3	9.1	8.4	8.3
27	7.6	7.2	8.5	8.2	9.5	8.3	11.5	11.3	10.1	9.1	8.9	8.5
28	8.1	7.6	8.9	8.2	10.0	9.5	11.5	11.3	10.5	10.0	---	---
29	8.1	7.8	9.0	8.6	9.9	9.5	11.4	11.1	---	---	---	---
30	8.1	7.9	8.7	8.5	9.8	9.5	11.1	10.7	---	---	8.3	8.0
31	8.7	8.0	---	---	9.9	9.7	10.8	10.4	---	---	8.4	8.0
MONTH	9.8	6.2	9.4	7.8	10.7	7.0	11.5	9.6	11.4	8.9	10.6	8.0

MOBILE RIVER BASIN

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

[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 current year.

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 1990 TO SEPTEMBER 1991

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...	0950	4.0	217	228	7.7	7.7	15.0	24.5	7.0	71
JAN 30...	1330	9.0	120	115	7.3	7.3	12.0	16.0	9.4	90
MAR 28...	0640	37	128	123	7.2	7.5	15.0	14.0	9.4	96
MAY 29...	0815	105	65	63	7.5	--	18.0	24.5	8.6	93
JUL 31...	1020	39	95	90	7.7	7.3	--	15.0	8.8	89
AUG 28...	0915	2.0	205	210	7.8	7.6	19.0	29.0	7.4	83
SEP 26...	1030	10	--	205	7.7	7.6	16.0	21.0	7.5	--

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)	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...	2.0	1.4	580	120	103	0.020	0.020	0.060	1.4
JAN 30...	15	0.8	490	56	45	0.330	0.060	0.040	8.0
MAR 28...	4.0	0.3	490	60	56	0.250	<0.030	0.120	2.0
MAY 29...	7.0	0.4	220	26	25	0.110	<0.030	0.050	<1.0
JUL 31...	4.0	<0.1	230	42	39	0.140	<0.030	0.030	<1.0
AUG 28...	4.0	0.2	490	98	96	0.330	<0.030	0.070	1.4
SEP 26...	3.0	0.9	490	94	90	0.250	<0.030	0.040	1.9

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.
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: Dec. 24 to Feb. 6. Records good, except those for periods of estimated daily discharges, which are fair.

AVERAGE DISCHARGE.—54 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)
Dec. 24	0200	4,990	14.40	Feb. 20	1500	*8,330	*16.17

Minimum discharge, 82 ft³/s, Nov. 8.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	85	95	565	305	570	540	744	286	267	170	114
2	87	84	93	450	265	1930	460	572	291	231	157	108
3	88	83	163	420	255	1650	405	479	252	204	150	104
4	91	83	362	445	255	2140	363	505	247	358	143	104
5	94	87	219	380	250	1120	342	1560	243	558	138	102
6	89	83	185	335	245	832	319	1860	222	279	133	100
7	86	84	167	305	235	760	307	1010	208	236	129	102
8	101	82	154	305	219	643	309	708	194	207	125	102
9	92	108	140	280	210	592	368	597	183	188	134	99
10	90	242	134	275	203	508	360	528	177	176	125	97
11	86	164	128	970	199	453	315	568	168	166	124	96
12	89	127	124	880	190	425	309	465	163	158	125	96
13	87	108	121	590	196	548	412	452	157	150	121	96
14	84	102	119	465	305	487	464	400	161	143	131	94
15	87	101	120	395	277	425	776	361	162	137	126	93
16	83	97	118	370	245	385	643	323	153	132	119	92
17	84	93	123	325	244	364	493	300	171	142	115	94
18	135	91	132	290	467	438	427	502	156	152	112	93
19	121	93	168	265	1920	404	1360	373	149	140	112	97
20	92	92	172	260	6590	372	835	316	219	183	115	106
21	88	90	191	260	2750	351	629	287	165	148	109	93
22	148	89	186	255	1330	332	522	269	199	140	107	93
23	217	88	2310	240	1470	322	452	256	181	133	105	94
24	122	87	2960	230	1080	304	395	246	187	134	104	112
25	102	85	740	225	804	282	347	243	169	215	105	187
26	94	87	510	215	649	269	317	252	330	179	108	144
27	94	88	455	210	547	260	392	249	297	207	107	115
28	90	97	575	205	476	363	835	547	416	182	104	107
29	89	117	520	195	—	1070	924	446	454	265	105	103
30	87	102	495	215	—	1190	884	363	323	213	130	101
31	87	—	715	395	—	693	—	309	—	194	144	—
TOTAL	3076	3019	12694	11215	22181	20482	15504	16090	6683	6217	3832	3138
MEAN	99.2	101	409	362	792	661	517	519	223	201	124	105
MAX	217	242	2960	970	6590	2140	1360	1860	454	558	170	187
MIN	83	82	93	195	190	260	307	243	149	132	104	92
CFSM	.52	.52	2.13	1.88	4.13	3.44	2.69	2.70	1.16	1.04	.64	.54
IN.	.60	.58	2.46	2.17	4.30	3.97	3.00	3.12	1.29	1.20	.74	.61
CAL YR 1990	TOTAL 198334		MEAN 543		MAX 19600		MIN 82		CFSM 2.83		IN. 38.43	
WTR YR 1991	TOTAL 124131		MEAN 340		MAX 6590		MIN 82		CFSM 1.77		IN. 24.05	

MOBILE RIVER BASIN

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory analyses with the analyzing agency code 80020 are provided by the U.S. Geological Survey. Laboratory chemical analyses with the analyzing 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, and Dissolved Oxygen are by the U.S. Geological Survey. Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Present data above the $\mu\text{g/L}$ level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey will begin using new trace-element protocols in the near future.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 30...	1200	81341	86	535	591	7.9	8.1	12.0	19.0	9.2	86
NOV 28...	1150	81341	93	625	642	8.2	8.2	16.0	19.0	7.4	77
DEC 20...	1200	81341	166	437	460	8.0	7.9	12.5	12.0	7.7	73
JAN 29...	1345	81341	195	330	344	7.3	7.9	10.0	15.0	9.3	84
FEB 27...	0910	81341	552	203	210	7.7	7.6	9.0	11.5	10.0	88
MAR 27...	1100	81341	259	300	305	7.9	7.7	16.0	21.0	8.5	88
APR 24...	0830	81341	400	230	234	7.7	7.8	15.0	15.5	8.2	83
MAY 29...	0730	81341	458	210	216	7.9	7.7	20.0	22.5	7.9	89
JUN 26...	0810	81341	271	389	388	7.9	8.0	20.0	21.0	8.0	90
JUL 31...	0930	81341	197	310	311	7.9	7.8	24.5	16.0	7.2	74
AUG 28...	0845	81341	104	490	487	7.8	8.0	22.0	26.5	7.2	84
SEP 23...	1230	81341	93	460	--	8.1	--	19.0	28.5	7.6	83
26...	1000	81341	145	--	444	7.7	7.9	16.5	16.5	6.8	--

MOBILE RIVER BASIN

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	AGENCY ANALYZING SAMPLE (CODE NUMBER)	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)	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 30...	81341	3.0	0.7	220	120	175	—	0.350	<0.030	0.330	2.0
NOV 28...	81341	4.0	2.4	330	130	213	—	0.150	0.080	0.330	6.0
DEC 20...	81341	7.0	1.8	80	110	158	13	1.07	0.210	0.310	5.5
JAN 29...	81341	5.0	1.2	170	110	130	7	0.480	0.030	0.170	7.2
FEB 27...	81341	10	3.2	20	72	77	13	0.380	<0.030	0.100	2.7
MAR 27...	81341	5.0	2.8	40	100	115	11	0.260	0.030	0.170	5.0
APR 24...	81341	7.0	1.0	70	84	93	13	0.380	<0.030	0.180	2.4
MAY 29...	81341	22	1.2	1400	84	85	27	0.320	0.070	0.130	4.4
JUN 26...	81341	16	1.2	490	100	141	25	0.470	0.060	0.200	4.0
JUL 31...	81341	11	0.5	170	95	125	—	0.420	0.050	0.220	2.7
AUG 28...	81341	5.0	0.7	230	120	190	—	0.490	0.040	0.410	3.3
SEP 23...	81341	—	—	—	—	—	—	—	—	—	—
26...	81341	7.0	1.9	2300	110	164	—	0.510	0.050	0.360	4.8

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	ANTI- MONY, TOTAL (UG/L AS SB)	ANTI- MONY, DIS- SOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
SEP 23...	1230	80020	2	2	7	6	<10	<10	<1	<1.0	<1

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
SEP 23...	1230	80020	1	<1	<1	3	2	<1	<0.10	<0.1	2

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	THAL- LIUM, DIS- SOLVED (UG/L AS TL)
SEP 23...	1230	80020	<1	<1	<1	<1	<1.0	<10	<10	<0.010	<1

MOBILE RIVER BASIN

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DI- CHLORO- BROMO- METHANE TOTAL (UG/L)	CARBON- TETRA- CHLO- RIDE TOTAL (UG/L)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L)	BROMO- FORM TOTAL (UG/L)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L)	CHLORO- FORM TOTAL (UG/L)	TOLUENE TOTAL (UG/L)	BENZENE TOTAL (UG/L)	CHLORO- BENZENE TOTAL (UG/L)
SEP 23...	1230	80020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	CHLORO- ETHANE TOTAL (UG/L)	ETHYL- BENZENE TOTAL (UG/L)	METHYL- BROMIDE TOTAL (UG/L)	METHYL- CHLO- RIDE TOTAL (UG/L)	METHYL- ENE CHLO- RIDE TOTAL (UG/L)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L)
SEP 23...	1230	80020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L)	1,1,2,2 TETRA- CHLORO- ETHANE TOTAL (UG/L)	1,2-DI- CHLORO- BENZENE TOTAL (UG/L)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L)	1,2- TRANSDI- CHLORO- ETHENE TOTAL (UG/L)	1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	1,3-DI- CHLORO- BENZENE TOTAL (UG/L)	1,4-DI- CHLORO- BENZENE TOTAL (UG/L)
SEP 23...	1230	80020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	2- CHLORO- ETHYL- VINYL- ETHER TOTAL (UG/L)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	VINYL CHLO- RIDE TOTAL (UG/L)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L)	STYRENE TOTAL (UG/L)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L)	XYLENE TOTAL WATER WHOLE TOT REC (UG/L)
SEP 23...	1230	80020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2

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 1990 TO SEPTEMBER 1991

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 30...	1230	108	340	360	8.0	8.0	11.0	21.5	9.0	82
NOV 28...	1040	150	470	484	7.9	7.9	15.0	19.5	7.4	75
DEC 20...	1130	184	430	448	7.9	7.7	13.0	12.5	7.4	71
JAN 29...	1315	320	280	286	7.3	7.8	10.0	15.0	9.4	85
FEB 27...	1000	780	191	196	7.7	7.6	10.0	13.0	9.8	88
MAR 27...	1030	800	285	287	7.9	7.7	16.0	21.5	8.4	87
APR 24...	0745	1100	220	219	7.7	7.7	15.0	14.0	8.1	82
MAY 29...	0700	770	200	211	7.7	7.7	21.0	22.5	8.1	92
JUN 26...	0920	440	297	301	7.8	7.8	20.0	22.0	8.5	95
JUL 31...	0910	320	270	270	7.7	7.7	24.0	17.0	7.2	76
AUG 28...	0815	145	370	372	7.6	7.8	23.0	26.5	6.5	77
SEP 26...	0930	225	--	468	7.5	7.9	17.0	15.5	6.6	--

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)	ALKA- LITY WAT WH TOT FET LAB MG/L AS CaCO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)
OCT 30...	3.0	7	0.9	80	120	130	3
NOV 28...	4.0	20	1.6	1300	120	170	6
DEC 20...	8.0	9	1.2	490	120	150	13
JAN 29...	6.0	8	1.2	50	110	114	6
FEB 27...	9.0	<5	3.0	330	70	75	14
MAR 27...	6.0	12	3.0	90	110	115	8
APR 24...	10	6	0.9	130	90	88	18
MAY 29...	34	23	1.4	3300	82	83	45
JUN 26...	17	17	1.4	330	100	113	27
JUL 31...	12	--	0.6	700	94	109	23
AUG 28...	6.0	--	0.7	150	120	150	11
SEP 26...	8.0	--	1.2	1100	120	178	11

MOBILE RIVER BASIN

02398037 CHATTOOGA RIVER AT CHATTOOGAVILLE, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 30...	0.390	<0.030	--	<0.10	--	0.720	1.4
NOV 28...	0.180	0.040	0.26	0.30	0.48	0.880	4.2
DEC 20...	0.450	0.100	0.10	0.20	0.65	0.770	6.3
JAN 29...	0.550	0.050	0.25	0.30	0.85	0.300	7.2
FEB 27...	0.420	<0.030	--	0.20	0.62	0.160	3.8
MAR 27...	0.390	<0.030	--	0.10	0.49	0.340	2.2
APR 24...	0.410	<0.030	--	0.50	0.91	0.280	3.3
MAY 29...	0.410	0.030	0.27	0.30	0.71	0.250	5.1
JUN 26...	0.470	0.050	0.25	0.30	0.77	0.510	3.8
JUL 31...	0.510	0.040	--	--	--	0.480	2.8
AUG 28...	0.470	<0.030	--	--	--	0.680	3.4
SEP 26...	0.450	0.040	--	--	--	0.650	5.3

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 analyses with the analyzing agency code 80020 are provided by the U.S. Geological Survey. Laboratory chemical 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, and Dissolved Oxygen are by the U.S. Geological Survey. Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (µg/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Present data above the µg/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey will begin using new trace-element protocols in the near future.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	AGENCY ANA- LYZING (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 29...	0910	81341	200	43	45	7.0	6.8	12.0	6.5	9.4	89
JAN 30...	1630	81341	800	43	38	7.1	6.7	10.0	16.0	9.6	88
MAR 27...	0630	81341	390	42	38	7.2	6.9	16.0	9.0	9.6	101
MAY 28...	1200	81341	450	38	35	7.2	6.8	22.0	30.0	8.4	99
AUG 06...	0735	81341	55	50	41	7.1	6.7	24.0	26.0	6.8	83
SEP 23...	1600	81341	78	43	--	6.8	--	19.5	26.5	8.1	91

DATE	AGENCY ANA- LYZING (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	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)
NOV 29...	81341	17	1.9	2200	13	24	0.020	<0.030	0.090	3.4
JAN 30...	81341	70	1.4	3300	10	--	0.160	0.070	0.060	14
MAR 27...	81341	10	0.7	80	11	11	0.600	<0.030	0.090	2.8
MAY 28...	81341	39	1.1	4900	16	--	0.160	<0.030	0.110	4.9
AUG 06...	81341	12	0.2	100	14	--	0.150	0.040	0.120	3.7
SEP 23...	81341	--	--	--	--	--	--	--	--	--

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	ANTI- MONY, TOTAL (UG/L AS SB)	ANTI- MONY, DIS- SOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
SEP 23...	1600	80020	<1	<1	<1	<1	<10	<10	<1	<1.0	<1

MOBILE RIVER BASIN

02411930 TALLAPOOSA RIVER BELOW TALLAPOOSA, GA.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
SEP 23...	1600	80020	2	<1	<1	2	6	<1	<0.10	<0.1	1
DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	THAL- LIUM, DIS- SOLVED (UG/L AS TL)
SEP 23...	1600	80020	<1	<1	<1	<1	<1.0	<10	<10	<0.010	2
DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DI- CHLORO- BROMO- METHANE TOTAL (UG/L)	CARBON- TETRA- CHLO- RIDE TOTAL (UG/L)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L)	BROMO- FORM TOTAL (UG/L)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L)	CHLORO- FORM TOTAL (UG/L)	TOLUENE TOTAL (UG/L)	BENZENE TOTAL (UG/L)	CHLORO- BENZENE TOTAL (UG/L)
SEP 23...	1600	80020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	CHLORO- ETHANE TOTAL (UG/L)	ETHYL- BENZENE TOTAL (UG/L)	METHYL- BROMIDE TOTAL (UG/L)	METHYL- CHLO- RIDE TOTAL (UG/L)	METHYL- ENE CHLO- RIDE TOTAL (UG/L)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L)
SEP 23...	1600	80020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L)	1,1,2,2 TETRA- CHLORO- ETHANE TOTAL (UG/L)	1,2-DI- CHLORO- BENZENE TOTAL (UG/L)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L)	1,2- TRANS DI- CHLORO- ETHENE TOTAL (UG/L)	1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	1,3-DI- CHLORO- BENZENE TOTAL (UG/L)	1,4-DI- CHLORO- BENZENE TOTAL (UG/L)
SEP 23...	1600	80020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	2- CHLORO- ETHYL- VINYL- ETHER TOTAL (UG/L)	DI- CHLORO- FLUORO- METHANE TOTAL (UG/L)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	VINYL CHLO- RIDE TOTAL (UG/L)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L)	STYRENE TOTAL (UG/L)	1,2- DIBROMO ETHANE WATER TOTAL (UG/L)	XYLENE TOTAL TOT REC (UG/L)
SEP 23...	1600	80020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2

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 1990 TO SEPTEMBER 1991

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										
02...	0730	170	120	115	7.2	7.0	19.0	18.0	6.5	72
NOV										
07...	1140	58	87	85	6.9	6.9	11.5	21.0	8.9	84
DEC										
04...	0830	190	56	54	7.1	6.7	10.0	4.0	9.2	84
JAN										
08...	0930	165	63	60	—	6.7	11.0	7.0	9.4	87
FEB										
05...	0830	280	56	52	7.0	6.7	9.0	9.5	10.8	96
MAR										
05...	0830	980	47	46	6.9	6.4	9.5	2.0	10.0	91
APR										
02...	0730	600	49	45	6.9	6.6	13.0	5.5	8.8	86
MAY										
07...	0715	820	47	44	6.9	6.6	18.0	12.0	7.7	83
JUN										
04...	0615	185	60	57	7.1	6.7	24.0	22.5	6.9	85
JUL										
09...	0715	400	50	44	7.2	6.6	23.0	23.0	7.0	84
AUG										
06...	0700	160	55	50	7.2	6.8	24.0	23.5	6.6	81
SEP										
03...	0700	110	60	56	6.9	7.0	22.0	19.0	7.2	84

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								
02...	23	0.3	2200	19	1.11	0.050	0.140	3.3
NOV								
07...	12	1.6	170	15	0.960	0.030	0.070	3.9
DEC								
04...	29	1.4	2300	13	0.200	0.040	0.130	11
JAN								
08...	15	1.0	80	13	0.400	0.040	0.120	4.2
FEB								
05...	21	0.6	140	10	0.430	0.040	0.080	4.1
MAR								
05...	48	0.8	790	8	0.310	<0.030	0.100	5.8
APR								
02...	38	0.9	490	10	0.270	<0.030	0.100	4.6
MAY								
07...	52	1.4	1700	12	0.230	0.060	0.140	6.3
JUN								
04...	18	1.1	1300	15	0.440	0.040	0.120	3.5
JUL								
09...	56	1.3	4600	12	0.260	<0.030	0.080	6.5
AUG								
06...	15	0.4	140	17	0.340	0.040	0.140	3.8
SEP								
03...	16	0.7	330	18	0.350	<0.030	0.160	3.6

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, 400,900 acre-ft, Apr. 1, elevation, 1,079.45 ft; minimum, 303,000 acre-ft, Dec. 22, elevation, 1,047.15.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1058.10	333700	-	-
Oct. 31.....	1052.70	318200	-15500	-252
Nov. 30.....	1048.10	305600	-12600	-212
Dec. 31.....	1058.85	335900	+30300	+493
CAL YR 1990	-	-	-46900	-65
Jan. 31.....	1058.00	333400	-2500	-41
Feb. 28.....	1071.10	373400	+40000	+720
Mar. 31.....	1079.45	400900	+27500	+447
Apr. 30.....	1075.00	386000	-14900	-250
May 31.....	1076.25	390100	+4100	+67
June 30.....	1078.00	396000	+5900	+99
July 31.....	1078.15	396500	+500	+8
Aug. 31.....	1075.20	386600	-9900	-161
Sept. 30.....	1071.60	375000	-11600	-195
WTR YR 1991	-	-	+41300	+57

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, 18,200 acre-ft, Mar. 30, elevation, 697.87 ft; minimum, 7,000 acre-ft, Sept. 15, elevation, 683.85 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	683.74	6900	-	-
Oct. 31.....	685.49	8100	+ 1200	+ 19
Nov. 30.....	685.77	8300	+ 200	+ 3
Dec. 31.....	683.85	7000	-1300	-21
CAL YR 1990	-	-	+ 1600	+ 2
Jan. 31.....	683.57	6800	-200	-3
Feb. 28.....	684.46	7400	+ 600	+ 11
Mar. 31.....	688.70	10500	+ 3100	+ 50
Apr. 30.....	691.72	12900	+ 2400	+ 40
May 31.....	683.30	6600	-6300	-102
June 30.....	685.63	8200	+ 1600	+ 27
July 31.....	686.45	8800	+ 600	+ 10
Aug. 31.....	684.69	7600	-1200	-20
Sept. 30.....	684.30	7300	-300	-5
WTR YR 1991	-	-	+ 400	+ 1

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, 411,900 acre-ft May 9, elevation, 843.59 ft; minimum, 211,100 acre-ft Dec. 22, elevation, 824.08 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	834.19	303000	-	-
Oct. 31.....	832.86	289500	-13500	-220
Nov. 30.....	828.29	246400	-43100	-724
Dec. 31.....	826.88	234100	-12300	-200
CAL YR 1990	-	-	+ 13700	+ 19
Jan. 31.....	827.30	237700	+ 3600	+ 59
Feb. 28.....	833.07	291600	+ 53900	+ 971
Mar. 31.....	837.15	334800	+ 43200	+ 703
Apr. 30.....	841.88	390200	+ 55400	+ 931
May 31.....	840.63	375000	-15200	-247
June 30.....	841.72	388300	+ 13300	+ 224
July 31.....	841.39	384200	-4100	-67
Aug. 31.....	840.84	377600	-6600	-107
Sept. 30.....	837.96	343800	-33800	-568
WTR YR 1991	-	-	+ 40800	+ 56

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 current year.

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 1990 TO SEPTEMBER 1991

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 13...	1050	E110	50	50	6.9	6.7	9.0	15.5	10.9	101
JAN 17...	1230	310	30	28	6.6	6.4	8.0	16.5	10.6	96
MAR 14...	0800	300	--	27	6.7	6.5	8.0	6.0	12.0	--
MAY 16...	1140	370	30	27	6.8	6.4	25.0	26.5	10.6	138
AUG 15...	1250	180	42	39	6.8	6.8	19.0	26.0	8.9	103

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 13...	7.0	0.9	170	8	0.400	0.070	0.520	4.8
JAN 17...	6.0	1.2	50	5	0.320	<0.030	0.230	2.7
MAR 14...	4.0	0.1	90	7	0.310	<0.030	0.260	1.5
MAY 16...	30	2.0	2300	8	0.270	<0.030	0.200	3.1
AUG 15...	10	0.8	310	9	0.530	0.040	0.330	3.2

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. WDR GA-90-1: 1984-89(M).

GAGE.--Water-stage recorder. Datum of gage is 2,141.43 ft above National Geodetic Vertical Datum of 1929 (leveling by global positioning system equipment).

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

AVERAGE DISCHARGE.--7 years, 4.97 ft³/s, 40.41 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 15 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. 18	0615	76	2.72	Apr. 19	0600	58	2.60
Dec. 23	1745	105	2.87	Apr. 29	1415	43	2.48
Mar. 29	1115	144	3.03	Aug. 26	0915	*263	*3.36

Minimum daily discharge, 1.2 ft³/s, Oct. 2, 3.

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	3.4	2.3	9.5	6.1	7.8	15	16	4.5	6.2	6.3	9.1
2	1.2	3.3	2.3	8.1	5.6	13	11	13	7.6	5.4	5.5	7.9
3	1.2	3.1	10	7.7	5.3	24	9.5	11	7.6	4.6	4.6	6.9
4	1.9	3.1	11	7.0	4.9	22	8.5	11	8.0	4.6	3.9	6.2
5	1.4	3.5	6.7	6.4	4.6	14	12	15	6.6	4.2	3.6	5.6
6	1.3	3.3	5.6	5.8	4.7	12	11	21	5.7	3.8	4.2	5.4
7	1.3	3.1	4.9	5.7	4.4	11	9.8	16	5.0	3.6	3.8	5.5
8	1.5	2.9	4.3	5.5	4.1	10	9.6	13	4.5	3.5	3.6	5.6
9	1.4	4.4	3.9	5.3	3.9	9.7	9.1	13	4.2	3.3	4.2	4.7
10	3.7	4.9	3.6	6.2	3.8	8.6	8.5	12	3.9	3.3	3.9	4.2
11	3.3	4.4	3.4	20	3.6	7.9	7.7	11	3.7	3.1	3.7	4.0
12	14	4.0	3.2	17	3.5	7.4	7.3	10	3.7	2.9	4.7	3.8
13	6.5	3.7	3.1	13	4.1	8.8	8.7	9.6	3.6	2.7	5.1	3.7
14	4.4	3.4	3.1	10	6.0	7.9	8.8	8.6	3.4	2.6	6.3	3.5
15	3.4	3.3	2.9	9.5	5.2	7.3	8.6	7.7	3.6	2.5	6.5	3.4
16	2.8	3.1	2.9	11	4.6	6.7	7.6	7.2	3.4	2.5	5.4	3.3
17	2.5	3.0	2.9	10	4.9	6.6	7.0	6.6	3.2	4.5	4.6	3.2
18	33	2.9	3.5	8.9	5.7	7.5	6.7	6.9	3.9	7.8	4.2	5.8
19	14	2.8	3.8	8.3	6.7	7.0	32	6.8	6.1	6.9	3.9	4.4
20	8.2	2.7	3.8	7.6	14	6.6	23	6.6	6.5	5.2	4.1	3.8
21	6.0	2.7	4.1	6.8	13	6.2	17	6.9	5.2	4.2	3.5	3.4
22	13	2.5	4.5	6.1	11	6.0	13	6.5	4.6	3.6	3.3	3.3
23	17	2.6	38	5.7	9.1	6.1	12	6.8	4.0	3.2	3.1	3.1
24	10	2.5	28	5.5	7.7	5.8	11	6.2	3.6	3.6	2.9	3.5
25	8.0	2.4	13	5.1	7.0	5.5	9.3	5.9	3.5	3.2	3.8	4.1
26	6.3	2.4	9.5	4.9	6.5	5.3	8.4	5.6	5.8	3.5	127	3.4
27	5.5	2.3	8.0	4.8	5.8	5.2	9.1	6.1	12	4.3	38	3.1
28	4.9	2.6	7.3	4.6	5.4	6.1	9.7	6.0	13	4.2	21	2.9
29	4.4	2.4	7.0	4.4	---	55	17	5.6	9.9	4.7	16	2.7
30	3.9	2.3	7.7	6.6	---	33	21	5.2	7.6	5.6	13	2.7
31	3.7	---	11	7.0	---	19	---	4.8	---	8.2	11	---
TOTAL	191.0	93.0	225.3	244.0	171.2	359.0	348.9	287.6	167.9	131.5	334.7	132.2
MEAN	6.16	3.10	7.27	7.87	6.11	11.6	11.6	9.28	5.60	4.24	10.8	4.41
MAX	33	4.9	38	20	14	55	32	21	13	8.2	127	9.1
MIN	1.2	2.3	2.3	4.4	3.5	5.2	6.7	4.8	3.2	2.5	2.9	2.7
CFSM	3.69	1.86	4.35	4.71	3.66	6.95	6.95	5.56	3.35	2.54	6.47	2.64
IN.	4.25	2.07	5.02	5.43	3.81	7.99	7.77	6.40	3.74	2.93	7.45	2.94
CAL YR 1990	TOTAL	2546.4	MEAN	6.98	MAX	194	MIN	1.0	CFSM	4.18	IN	56.69
WTR YR 1991	TOTAL	2686.3	MEAN	7.36	MAX	127	MIN	1.2	CFSM	4.41	IN	59.80

TENNESSEE RIVER BASIN

03550500 NOTTELY RIVER NEAR BLAIRSVILLE, GA.

LOCATION.--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.

DRAINAGE AREA.--74.8 mi².

PERIOD OF RECORD.--October 1968 to June 1971 and July 1991 to September 1991.

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-discharge records for the water years 1942-82 are published in reports of the U.S. Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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 16...	1300	82	27	26	7.3	7.1	20.5	27.5	8.6	101
SEP 10...	0745	107	31	26	7.0	6.9	18.0	19.0	8.1	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)
JUL 16...	4.0	1.0	330	10	0.220	<0.030	0.060	1.9
SEP 10...	4.0	0.5	2300	10	0.200	<0.030	0.030	1.5

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.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--79 years, 493 ft³/s, 37.82 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)
Dec. 23	1845	*4,390	*6.77	Aug. 26	1400	2,960	5.39
Mar. 29	1515	4,340	6.73				

Minimum daily discharge, 168 ft³/s, Oct. 3.

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	177	232	200	574	493	715	989	899	598	476	362	567
2	173	225	200	529	464	1510	889	794	613	475	342	576
3	168	222	617	550	449	1820	817	743	596	450	326	490
4	206	219	678	544	437	1440	779	1050	587	438	315	462
5	212	226	411	498	429	1090	961	1500	539	450	310	442
6	178	252	352	478	454	967	836	1720	515	415	325	432
7	172	223	330	498	444	937	775	1190	502	394	348	435
8	199	215	316	497	422	915	829	1030	488	394	362	408
9	191	253	297	466	408	845	965	1040	478	377	368	393
10	327	381	289	456	399	787	916	955	469	366	358	381
11	398	276	281	994	389	752	802	913	459	363	323	373
12	385	252	275	901	381	732	806	909	510	354	870	368
13	294	240	272	724	464	1010	822	849	494	343	729	358
14	243	232	282	638	666	830	796	801	479	333	563	351
15	217	227	271	596	507	764	764	775	456	325	534	345
16	203	223	275	644	451	722	729	771	440	321	448	343
17	197	223	275	564	483	703	703	748	432	368	409	335
18	579	217	297	528	687	830	686	739	464	903	396	341
19	368	214	373	518	819	730	1090	759	552	599	448	555
20	281	211	327	523	1850	693	977	696	620	526	488	377
21	251	210	343	490	1140	672	825	680	619	448	393	345
22	439	208	336	467	864	659	769	661	508	397	370	330
23	654	210	1940	455	810	714	730	660	459	374	357	324
24	409	205	1800	456	710	654	696	635	431	357	350	347
25	335	200	837	442	667	625	664	614	428	363	350	571
26	299	198	639	431	650	606	649	596	740	383	1950	414
27	277	198	621	427	602	599	749	835	818	422	1200	354
28	263	215	638	426	575	717	905	821	761	439	736	334
29	251	237	571	414	---	2550	1050	707	593	399	711	322
30	244	205	559	547	---	1730	1070	658	520	374	642	314
31	237	---	665	614	---	1160	---	612	---	371	555	---
TOTAL	8827	6849	15567	16889	17114	29478	25038	26360	16168	12997	16238	11987
MEAN	285	228	502	545	611	951	835	850	539	419	524	400
MAX	654	381	1940	994	1850	2550	1090	1720	818	903	1950	576
MIN	168	198	200	414	381	599	649	596	428	321	310	314
CFSM	1.61	1.29	2.84	3.08	3.45	5.37	4.72	4.80	3.05	2.37	2.96	2.26
IN.	1.86	1.44	3.27	3.55	3.60	6.20	5.26	5.54	3.40	2.73	3.41	2.52
CAL YR 1990	TOTAL	227583	MEAN	624	MAX	6700	MIN	168	CFSM	3.53	IN	47.83
WTR YR 1991	TOTAL	203512	MEAN	558	MAX	2550	MIN	168	CFSM	3.15	IN	42.77

TENNESSEE RIVER BASIN

03558000 TOCCOA RIVER NEAR DIAL, GA.—Continued

PERIOD OF RECORD.—March 1978 to September 1984 and July 1991 to September 1991.

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 1990 TO SEPTEMBER 1991

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 16...	1140	328	17	17	7.1	6.8	20.0	25.0	8.4	98
SEP 10...	0640	384	20	16	7.3	6.5	18.0	16.0	7.9	88

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 16...	2.0	0.8	220	6	0.040	<0.030	0.040	2.7
SEP 10...	2.0	0.3	50	6	0.050	<0.030	0.030	<1.0

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 analyses with the analyzing agency code 80020 are provided by the U.S. Geological Survey. Laboratory chemical 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, and Dissolved Oxygen are by the U.S. Geological Survey. Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Present data above the $\mu\text{g/L}$ level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey will begin using new trace-element protocols in the near future.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	AGENCY ANALYZING (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 28...	0810	81341	105	259	270	8.0	8.0	14.5	18.0	10.0	101
JAN 28...	1245	81341	250	225	230	8.1	7.8	7.5	15.0	10.8	93
MAR 26...	0700	81341	470	200	205	8.1	8.2	16.0	6.0	8.8	91
MAY 28...	0530	81341	540	240	253	7.5	7.9	22.0	22.0	7.5	88
AUG 27...	0530	81341	480	257	261	7.7	7.8	22.5	23.0	7.4	87
SEP 23...	1045	81341	84	225	--	7.8	--	18.5	21.5	7.3	79

DATE	AGENCY ANALYZING (CODE NUMBER)	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)	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...	81341	4.0	0.7	140	140	113	0.190	<0.030	0.120	2.7
JAN 28...	81341	3.0	0.6	<20	110	91	0.540	<0.030	0.040	6.2
MAR 26...	81341	8.0	0.2	80	98	88	0.190	0.100	<0.020	6.2
MAY 28...	81341	5.0	0.5	490	120	107	0.570	0.120	0.130	4.2
AUG 27...	81341	6.0	0.7	220	130	112	0.370	0.040	0.060	2.8
SEP 23...	81341	--	--	--	--	--	--	--	--	--

DATE	TIME	AGENCY ANALYZING SAMPLE (CODE NUMBER)	ANTI- MONY, TOTAL (UG/L AS SB)	ANTI- MONY, DIS- SOLVED (UG/L AS SB)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
SEP 23...	1045	80020	<1	<1	<1	<1	<10	<10	<1	<1.0	<1

TENNESSEE RIVER BASIN

03566800 SOUTH CHICKAMAUGA CREEK AT GRAYSVILLE, GA.—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
SEP 23...	1045	80020	<1	<1	<1	2	1	<1	<0.10	<0.1	1
DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	THAL- LIUM, DIS- SOLVED (UG/L AS TL)
SEP 23...	1045	80020	<1	<1	<1	<1	<1.0	<10	<10	<0.010	<1
DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DI- CHLORO- BROMO- METHANE TOTAL (UG/L)	CARBON- TETRA- CHLO- RIDE TOTAL (UG/L)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L)	BROMO- FORM TOTAL (UG/L)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L)	CHLORO- FORM TOTAL (UG/L)	TOLUENE TOTAL (UG/L)	BENZENE TOTAL (UG/L)	CHLORO- BENZENE TOTAL (UG/L)
SEP 23...	1045	80020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	CHLORO- ETHANE TOTAL (UG/L)	ETHYL- BENZENE TOTAL (UG/L)	METHYL- BROMIDE TOTAL (UG/L)	METHYL- CHLO- RIDE TOTAL (UG/L)	METHYL- ENE CHLO- RIDE TOTAL (UG/L)	TETRA- CHLORO- ETHENE TOTAL (UG/L)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L)
SEP 23...	1045	80020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L)	1,1,2,2 TETRA- CHLORO- ETHANE TOTAL (UG/L)	1,2-DI- CHLORO- BENZENE TOTAL (UG/L)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L)	1,2- TRANSDI- CHLORO- ETHENE TOTAL (UG/L)	1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	1,3-DI- CHLORO- BENZENE TOTAL (UG/L)	1,4-DI- CHLORO- BENZENE TOTAL (UG/L)
SEP 23...	1045	80020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	2- CHLORO- ETHYL- VINYL- ETHER TOTAL (UG/L)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L)	VINYL CHLO- RIDE TOTAL (UG/L)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L)	STYRENE TOTAL (UG/L)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L)	XYLENE TOTAL WATER WHOLE TOT REC (UG/L)
SEP 23...	1045	80020	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2

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 1990 TO SEPTEMBER 1991

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 30...	0730	E70	290	307	7.2	7.6	10.5	4.0	8.0	73
NOV 28...	0840	E60	291	303	7.7	7.6	14.0	18.5	6.9	69
DEC 19...	0730	E130	293	299	7.3	7.5	13.0	10.5	7.7	75
JAN 28...	0730	145	259	281	7.7	7.6	7.0	8.0	10.2	87
FEB 27...	0800	400	210	220	7.5	7.6	10.0	1.5	9.8	89
MAR 26...	0630	175	240	241	7.5	7.7	17.0	7.0	8.0	85
JUN 26...	0700	570	207	206	7.4	7.8	20.0	21.0	7.9	89
AUG 27...	0515	100	275	279	7.3	7.6	23.0	23.0	5.1	61

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 CaCO ₃)	ANAL- YSIS WORTH TODGET USE BIOAS GAS	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)
OCT 30...	7.0	--	0.9	330	150	100	7
NOV 28...	6.0	--	1.1	60	140	100	6
DEC 19...	14	--	--	200	150	100	16
JAN 28...	7.0	--	0.9	3300	130	110	6
FEB 27...	16	--	2.9	490	100	96	22
MAR 26...	8.0	--	0.5	110	110	109	6
JUN 26...	72	--	2.5	35000	96	90	--
AUG 27...	15	13	1.0	330	130	127	16

TENNESSEE RIVER BASIN

03567340 WEST CHICKAMAUGA CREEK NEAR LAKEVIEW, GA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	NITRO- GEN, NO ₂ + NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 30...	0.470	<0.030	--	0.850	1.9
NOV 28...	0.230	<0.030	--	0.640	2.8
DEC 19...	0.590	0.060	--	0.800	4.8
JAN 28...	0.670	0.060	--	0.400	5.4
FEB 27...	0.640	<0.030	--	0.290	4.0
MAR 26...	0.370	<0.030	--	0.200	2.1
JUN 26...	0.490	0.040	--	0.500	6.4
AUG 27...	0.400	0.090	0.20	1.36	4.6

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.--12 years, 255 ft³/s, 23.24 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. 23	0915	*7,810	*15.96	Apr. 15	0615	5,040	14.37
Feb. 19	2345	7,150	15.62	May 5	1945	4,990	14.33

Minimum daily discharge, 19 ft³/s, Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	25	56	759	180	520	605	700	138	213	56	30
2	20	25	52	556	164	1020	479	481	152	171	52	29
3	19	25	253	486	155	1100	394	376	131	141	49	28
4	22	24	360	465	146	1350	333	730	330	125	46	27
5	25	26	178	385	139	898	425	2620	347	160	44	27
6	24	26	133	336	137	709	324	3180	211	152	42	26
7	22	26	111	308	129	588	281	1160	164	116	42	27
8	23	25	96	295	118	557	314	794	137	99	46	31
9	25	45	84	260	109	546	461	608	118	90	40	28
10	23	224	75	257	104	452	408	483	105	82	38	27
11	22	144	68	476	100	399	336	414	95	80	38	26
12	21	86	62	475	96	359	326	733	90	75	37	26
13	21	67	57	402	129	573	441	784	87	70	35	26
14	21	55	58	341	447	456	402	539	153	67	35	25
15	20	48	54	300	287	379	4000	418	112	63	36	27
16	20	43	55	300	224	330	1620	341	94	59	35	26
17	21	40	61	260	421	300	895	284	92	60	34	26
18	41	37	90	230	1580	359	665	253	93	65	34	25
19	62	37	147	219	5420	310	642	260	84	62	35	27
20	34	35	139	209	5910	275	493	233	93	57	35	26
21	27	33	145	187	2190	255	410	196	119	53	32	26
22	33	31	1960	167	1170	237	350	176	282	51	31	24
23	68	30	6490	160	992	239	304	161	182	48	30	24
24	52	30	3400	149	793	217	261	150	160	48	29	39
25	38	29	1050	136	636	197	225	145	135	79	30	60
26	32	29	687	126	535	180	200	151	424	123	35	54
27	30	29	542	120	442	172	218	154	413	131	36	39
28	28	47	760	120	378	640	288	223	347	81	32	32
29	27	96	615	113	---	1540	410	232	390	71	30	29
30	26	68	682	124	---	1480	758	183	287	68	30	27
31	25	---	1160	233	---	820	---	155	---	61	30	---
TOTAL	892	1485	19680	8954	23131	17457	17268	17317	5565	2821	1154	894
MEAN	28.8	49.5	635	289	826	563	576	559	185	91.0	37.2	29.8
MAX	68	224	6490	759	5910	1540	4000	3180	424	213	56	60
MIN	19	24	52	113	96	172	200	145	84	48	29	24
CFSM	.19	.33	4.26	1.94	5.54	3.78	3.86	3.75	1.24	.61	.25	.20
IN.	.22	.37	4.91	2.24	5.77	4.36	4.31	4.32	1.39	.70	.29	.22
CAL YR 1990	TOTAL 149659		MEAN 410		MAX 10800		MIN 19		CFSM 2.75		IN. 37.36	
WTR YR 1991	TOTAL 116618		MEAN 320		MAX 6490		MIN 19		CFSM 2.14		IN. 29.12	

TENNESSEE RIVER BASIN

03568933 LOOKOUT CREEK NEAR NEW ENGLAND, GA.

PERIOD OF RECORD.--April 1979 to October 1981 and August 1991 to September 1991.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1980 to September 1984.

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.--

WATER TEMPERATURES: Maximum recorded, 26.5°C July 15, 16, 1981; minimum recorded, 0.5°C Jan. 13, 1981.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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)
AUG 28...	1015	34	260	264	7.7	7.8	24.0	30.5	6.5	79

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)	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)
AUG 28...	6.0	0.2	110	130	118	0.350	<0.030	0.090	2.6

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, 84,570 ft³/s-days July 1, elevation, 1,778.44 ft; minimum, 41,900 ft³/s-days Dec. 21, elevation, 1,749.77 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1760.08	54200	-	-
Oct. 31.....	1757.22	50600	-3600	-59
Nov. 30.....	1751.51	44100	-6500	-109
Dec. 31.....	1753.27	46000	+1900	+31
CAL YR 1990	-	-	+4000	+6
Jan. 31.....	1751.60	44160	-1840	-30
Feb. 28.....	1756.29	49500	+5340	+96
Mar. 31.....	1766.96	64040	+14540	+236
Apr. 30.....	1776.52	80710	+16670	+280
May 31.....	1777.51	82670	+1960	+32
June 30.....	1778.41	84500	+1830	+31
July 31.....	1774.62	77080	-7420	-121
Aug. 31.....	1773.74	75450	-1630	-27
Sept. 30.....	1770.03	68970	-6480	-109
WTR YR 1991	-	-	+14770	+20

LAKES IN TENNESSEE RIVER BASIN

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, 94,960 ft³/s-days Apr. 30, elevation, 1,688.72 ft; minimum, 50,760 ft³/s-days Dec. 21, elevation, 1,656.82 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1672.92	70800	-	-
Oct. 31.....	1670.32	67300	-3500	-57
Nov. 30.....	1662.81	57700	-9600	-161
Dec. 31.....	1663.00	57900	+200	+3
CAL YR 1990	-	-	+4100	+6
Jan. 31.....	1665.20	60620	+2720	+44
Feb. 28.....	1673.09	71090	+10470	+189
Mar. 31.....	1685.30	89410	+18320	+298
Apr. 30.....	1688.55	94680	+5270	+89
May 31.....	1688.14	94010	-670	-11
June 30.....	1687.72	93320	-690	-12
July 31.....	1685.60	89890	-3430	-56
Aug. 31.....	1685.82	90250	+360	+6
Sept. 30.....	1675.80	74950	-15300	-257
WTR YR 1991	-	-	+4150	+6

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 1991

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft ³ /s)
SAVANAH 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	1964-91	05-17-91	3.58	205
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	1984-91	10-12-90	15.53	11,500
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	1979-91	10-12-90	10.78	3,690
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	1979-91	10-12-90	9.60	1,110
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	1963-91	10-12-90	7.52	3,160
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, 1984-91	01-30-91	14.75	4,000
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	1979-91	03-05-91	12.79	2,310

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1991

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	1965-91	10-12-90	10.38	2,200
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	1979-91	03-03-91	2.77	157
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	1979-91	04-30-91	10.00	268
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	1979-91	04-30-91	4.80	77
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	1974-91	05-27-91	6.00	840
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, 1980-91	09-01-91	5.91	586
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, 1980-91	05-27-91	7.50	970
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	1977-91	06-26-91	4.16	23
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	1987-91	05-05-91	6.03	114
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	1987-91	09-01-91	5.74	106
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	1987-91	05-11-91	7.46	152
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	1987-91	06-01-91	10.02	87

c Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1991

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	1987-91	05-05-91	6.21	60
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	1979-91	01-31-91	10.55	1,520
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	1979-91	03-30-91	8.19	769
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	1965-91	03-03-91	5.97	365
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	1984-91	03-06-91	9.91	4,940
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, 1984-91	03-30-91	(b)	< 1,120
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	1965-91	03-30-91	2.46	270
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	1979-91	06-01-91	10.31	628
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	1979-91	06-01-91	9.36	715
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	1985-91	01-30-91	19.49	5,010
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	1978-91	03-03-91	3.16	71

c Approximately.

b Peak stage did not reach bottom of gage.

< Less than.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1991

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							
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	1984-91	03-03-91	17.19	12,100
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, 1980-91	10-13-90	13.40	15,800
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	1965-91	08-24-91	8.04	2,500
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	1976-91	06-25-91	2.72	74
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	1977-91	03-03-91	1.33	20
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	1987-91	03-04-91	6.30	285
02317566	Dukes Bay Canal at Industrial Boulevard, at Valdosta, Ga.	Lat 30°48'34", long 83°16'20", Lowndes County, Hydrologic Unit 03110202, at culvert on Industrial Boulevard at Valdosta.	c5.2	1987-91	08-14-87 02-19-88 07-22-89 12-08-89 03-03-91	4.32 4.45 4.63 3.44 6.18	288 304 328 195 586
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	1984-91	03-05-91	16.69	9,430
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	1987-91	03-03-91	3.60	91
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	1987-91	03-03-91	7.15	419
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	1987-91	03-03-91	8.56	789

c Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1991

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft ³ /s)
SUWANNEE RIVER BASIN—Continued							
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.	c0.16	1987-91	03-03-91	4.06	193
023177557	Twomile Branch at at Valdosta, Ga.	Lat 30°52'05", long 83°17'04", Lowndes County, Hydrologic Unit 03110202, at culvert on University Drive at Valdosta.	c0.38	1987-91	08-14-87	5.00	185
					08-30-88	5.00	185
					06-11-89	5.37	320
					08-17-90	5.06	197
					03-03-91	5.42	356
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	1987-91	03-03-91	7.38	536
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	1965-91	03-03-91	3.47	109
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	1987-91	03-03-91	2.79	49
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	1987-91	07-04-91	4.40	421
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	1987-91	03-03-91	2.74	141
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	1987-91	03-03-91	5.75	646
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	1965-91	03-03-91	3.24	330
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	1981-91	03-04-91	16.89	11,000
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	1981-91	03-03-91	9.78	4,750

c Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1991

Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Discharge (ft ³ /s)
OCHLOCKONEE RIVER BASIN—Continued							
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	1987-91	03-03-91	6.07	222
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	1987-91	07-04-91	5.93	1,160
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	1987-91	08-17-91	6.20	86
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	1987-91	07-29-91	6.71	119
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	1977-91	03-03-91	4.56	316
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	1987-91	09-01-91	4.49	143
02335864	Sope Creek at Old Canton Road near Marietta, Ga.	Lat 33°57'26", long 84°25'53", Cobb County, Hydrologic Unit 03130002, at bridge on Old Canton Road, 1.5 miles northeast of Marietta.	12.7	1965-69, 1989-91	09-30-89 03-17-90 09-19-91	16.20 15.80 15.37	2,190 1,850 1,580
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	1974-91	05-22-91	11.85	608
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, 1980-91	06-18-91	7.85	1,070
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	1974-91	07-17-91	4.95	660
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, 1980-91	1991	(b)	< 197

b Did not reach bottom of gage.

c Approximately.

†† Operated as a continuous-record gaging station.

< Less than.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1991

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							
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	1977-91	07-18-91	5.60	80
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	1984-91	05-11-91	12.12	2,570
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	1984-91	03-29-91	17.47	4,430
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	1977-91	03-29-91	6.41	704
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	1977-91	03-29-91	5.16	109
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	1977-91	08-10-91	8.18	871
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	1963-91	03-29-91	8.48	1,530
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	1979-91	01-31-91	5.84	352
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	1979-91	03-29-91	11.01	†
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	1977-91	01-29-91	2.14	145

† Discharge not determined.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1991

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							
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	1984-91	05-02-84	7.46	a965
					02-06-85	6.50	a627
					11-22-85	3.76	a113
					06-21-87	4.64	a219
					04-17-88	4.36	a180
					06-20-89	5.47	a366
					10-02-89	6.16	a530
03-03-91	6.21	544					
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	1978-91	1981	(b)	a < 15
					07-24-82	2.27	a82
					03-06-83	2.05	a66
					12-06-83	1.72	a41
					02-06-85	1.16	a17
					1986	(b)	a < 15
					03-01-87	1.30	a22
					04-17-88	1.58	a34
					07-20-89	1.41	a26
					01-07-90	1.33	a23
03-03-91	2.50	102					
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, 1984-91	03-30-91	11.57	11,400
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, 1.2 miles southeast of Manchester.	2.82	1969-86, 1989-91	03-29-91	2.86	457
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	1981-91	03-30-91	7.41	141
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	1980-91	01-30-91	3.43	284
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	1977-91	07-28-91	2.35	28
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	1979-91	01-30-91	7.59	1,190

a Revised.

b Did not reach bottom of gage.

c Approximately.

< Less than.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Annual maximum discharge at crest-stage partial-record stations during water year 1991

						Annual maximum	
Station no.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Discharge (ft ³ /s)
APALACHICOLA RIVER BASIN--Continued							
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	1977-91	08-15-91	6.82	194
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	1977-91	05-14-91	1.65	19
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	1987-91	07-17-91	1.85	9.7
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	1987-91	06-26-91	2.20	10
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	1987-91	06-26-91	2.29	45
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	1987-91	07-17-91	2.81	8.5
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	1981-91	03-05-91	10.90	6,010
MOBILE RIVER BASIN							
02384600	Pinhook Creek (prior to 1986, published as Mjill 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	1965-91	12-24-90	5.32	348
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	1984-91	12-24-90	20.02	(†)
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, 1984-91	03-29-91	7.55	1,410
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	1979-91	03-29-91	3.14	45

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 1991

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							
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	1979-91	03-29-91	2.67	23
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	1979-91	03-29-91	5.05	149
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††, 1983-91	02-20-91	8.13	1,460
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 southwest of Dallas.	0.88	1977-91	05-06-91	4.16	293
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	1977-91	02-20-91	4.07	ND

†† Operated as a continuous-record gaging station.
 ND Not determined.

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, 1986-91	ND	ND	ND
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†, 1972-91	10-15-90	13.42	m37,300
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††, 1984-91	03-29-91	10.14	m4,100
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††, 1983-91	03-31-91	13.20	m4,230
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, 1986-91	04-19-91	4.78	m2,190
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	01-31-91	8.40	m4,760
TENNESSEE RIVER BASIN							
03545000	Hiawassee 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††, 1983-91	08-26-91	6.82	m1,790
03550500	Nottely River near Blairsville, Ga.	Lat 34°50'42", long 83°56'20", Union County, Hydrologic Unit 06020002, on right bank 1,700 ft downstream from Arkaqua Creek, 2.6 mi southeast of Blairsville, and at mile 44 (revised).	78.6a	1942-82††, 1983-91	03-29-91	9.81	m3,370

a Revised.

c Approximately.

g Maximum gage heights computed from graph based on gage readings.

m Annual maximum.

† Operated as a continuous-record gaging station.

†† Operated as a crest-stage partial-record station.

ND Not determined.

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, 1991
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, 1991
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, 1991
02187500	Savannah River near Iva, S.C.	34°15'20"	82°44'42"	2,231	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, 1991
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"	60.9a	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"	1.73a	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, 1991
02193340	Kettle Creek near Washington	33°40'57"	82°51'29"	33.9	Apr. 16, 1986 to Sept. 30, 1991
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, 1991
02194000	Little River near Lincolnton	33°38'40"	82°28'40"	574	Jan. 1, 1943 to Mar. 31, 1951
02196484	Savannah River near North Augusta, S.C.	33°33'06"	82°02'19"	7,150	Oct. 1, 1988 to Sept. 30, 1991
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"	7,508	Apr. 1, 1883 to Sept. 30, 1891
					Apr. 1, 1896 to Sept. 30, 1906
					Apr. 1, 1925 to Sept. 30, 1991
02197320	Savannah River near Jackson, S.C.	33°13'01"	81°46'04"	7,800	Oct. 1, 1971 to Sept. 30, 1991
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, 1991
02197520	Brier Creek near Thomson	33°22'06"	82°28'06"	55.0	July 18, 1967 to Sept. 30, 1991
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, 1991
02197830	Brier Creek near Waynesboro	33°07'05"	81°57'50"	473	July 1, 1969 to Sept. 30, 1991
02198000	Brier Creek at Millhaven	32°56'00"	81°39'05"	646	Apr. 14, 1937 to Sept. 30, 1991
02198100	Beaverdam Creek near Sardis	32°56'15"	81°48'56"	30.8	June 7, 1986 to Sept. 30, 1991
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, 1991
02198690	Ebenezer Creek at Springfield	32°21'56"	81°17'51"	181	Mar. 1, 1990 to Sept. 30, 1991
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, 1991
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, 1991
02202600	Black Creek near Blitchton	32°10'04"	81°29'18"	232	Feb. 14, 1980 to Sept. 30, 1991
02203000	Canoochee River near Claxton	32°11'05"	81°53'20"	555	May 26, 1937 to Sept. 30, 1991

ACTIVE AND DISCONTINUED GAGING STATIONS--Continued

Station no.	Station name	Latitude	Longitude	Drainage area (mi ²)	Period(s) of record	
02203500	Canoochee River near Groveland	32°05'55"	81°43'43"	921	June 23, 1903	to Dec. 31, 1907
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, 1991
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, 1991
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, 1991
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, 1991
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, 1991
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, 1991
02213050	Walnut Creek near Gray	32°58'20"	83°37'08"	29.0	Oct. 1, 1961	to Sept. 30, 1991
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, 1991
02213700	Ocmulgee River near Warner Robins	32°40'17"	83°36'11"	2,690	Oct. 1, 1972	to Sept. 30, 1991
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	Tucsaawatchee Creek near Hawkinsville	32°14'22"	83°30'06"	163	Apr. 1, 1986	to Sept. 30, 1991
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, 1991
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, 1991
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, 1991
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, 1991
02217900	North Oconee River at Athens	33°56'55"	83°22'04"	290a	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, 1991
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, 1991
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"	16.6a	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, 1991
02221000	Murder Creek near Monticello	33°24'56"	83°39'43"	24.0	Oct. 1, 1951	to Sept. 30, 1971

a Revised

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, 1991
02223000	Oconee River at Milledgeville	33°05'22"	83°12'56"	2,950	Sept. 1, 1903 to Sept. 30, 1991
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, 1991
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, 1991
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, 1991
02226000	Altamaha River at Doctortown	31°39'16"	81°49'41"	13,600	Oct. 1, 1931 to Sept. 30, 1991
02226100	Penholoway Creek near Jesup	31°34'00"	81°50'18"	210	July 1, 1958 to Sept. 30, 1991
02226500	Satilla River near Waycross	31°14'17"	82°19'29"	1,200	Apr. 1, 1937 to Sept. 30, 1991
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, 1991
02228000	Satilla River at Atkinson	31°13'16"	81°52'03"	2,790	Mar. 21, 1930 to Sept. 30, 1991
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, 1989
02231000	St Marys River near Macclenny, FL	30°21'31"	82°04'54"	700	Oct. 1, 1926 to Sept. 30, 1991
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, 1990
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, 1991
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, 1991
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, 1991
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
					Oct. 1, 1988 to Sept. 30, 1991
02318700	Okapilco Creek at State Route 33 near Quitman	30°49'32"	83°33'45"	269	Dec. 21, 1979 to Sept. 30, 1991
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"	44.7	May 5, 1981 to Sept. 30, 1991
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, 1991
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 Dahlonega	34°31'41"	83°56'23"	153	July 8, 1929 to Jan. 31, 1932
					Apr. 1, 1940 to Sept. 30, 1991
02334430	Chattahoochee River at Buford Dam near Buford	34°09'25"	84°04'44"	1,040	Oct. 1, 1971 to Sept. 30, 1991
02334500	Chattahoochee River near Buford	34°07'34"	84°05'37"	1,060	Jan. 27, 1942 to Sept. 30, 1971
02334885	Suwannee Creek near Suwanee	34°01'56"	84°05'22"	46.8	Oct. 1, 1984 to Sept. 30, 1991
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, 1991
02335450	Chattahoochee River at Eves Road above Roswell	33°59'09"	84°18'58"	1,220	July 7, 1976 to Sept. 30, 1991

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, 1991
02335870	Sope Creek near Marietta	33°57'14"	84°26'36"	29.2	Oct. 1, 1984 to Sept. 30, 1991
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, 1991
02336300	Peachtree Creek at Atlanta	33°49'10"	84°24'28"	86.8	June 20, 1958 to Sept. 30, 1991
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, 1991
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, 1991
02337100	North Fork Camp Creek at Atlanta	33°39'40"	84°30'40"	5.25	Oct. 1, 1953 to Sept. 30, 1969
02337170	Chattahoochee River near Fairburn	33°39'24"	84°40'25"	2,060	July 6, 1965 to Sept. 30, 1991
02337500	Snake Creek near Whitesburg	33°31'46"	84°55'42"	35.5	Sept. 15, 1954 to Sept. 30, 1991
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, 1991
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
02338660	New River near Corinth	33°14'07"	84°59'16"	127	Oct. 1, 1978 to Sept. 30, 1991
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, 1991
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, 1991
02341800	Upatoi Creek near Columbus	32°24'48"	84°49'12"	342	Apr. 1, 1968 to Sept. 30, 1991
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, 1991
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, 1991
02344500	Flint River near Griffin	33°14'39"	84°25'45"	272	Mar. 1, 1937 to Sept. 30, 1991
02344700	Line Creek near Senoia	33°19'10"	84°31'25"	101	Sept. 1, 1964 to Sept. 30, 1991
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, 1991
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, 1991
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, 1991
02349900	Turkey Creek at Byromville	32°11'44"	83°54'03"	45.0	June 20, 1958 to Sept. 30, 1991
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, 1991
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, 1991

ACTIVE AND DISCONTINUED GAGING STATIONS—Continued

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, 1991
02352500	Flint River at Albany	31°35'39"	84°08'39"	5,310	Oct. 1, 1901 to June 30, 1921
02353000	Flint River at Newton	31°18'34"	83°20'06"	5,740	Oct. 1, 1929 to Sept. 30, 1991
					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, 1991
02353400	Pachitla Creek near Edison	31°33'17"	84°40'43"	188	June 9, 1959 to Sept. 30, 1971
02353500	Ichawaynochaway Creek at Milford	31°22'58"	84°32'52"	620	Mar. 24, 1988 to Sept. 30, 1991
					Sept. 1, 1905 to Dec. 31, 1907
					Oct. 1, 1939 to Sept. 30, 1991
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, 1991
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	Coosawatee River near Ellijay	34°40'18"	84°30'31"	236	Oct. 1, 1938 to Dec. 31, 1949
					June 1, 1963 to Sept. 30, 1991
02381000	Mountaintown Creek near Ellijay	34°45'00"	84°33'25"	31.5	Oct. 1, 1939 to Dec. 31, 1942
02381500	Coosawatee 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, 1991
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 Apr. 2, 1991
02382200	Talking Rock Creek near Hinton	34°31'22"	84°36'40"	119	Nov. 1, 1973 to Sept. 30, 1991
02382300	Talking Rock Creek near Carters	34°35'20"	84°40'05"	142	Oct. 1, 1963 to Sept. 30, 1971
02382500	Coosawatee 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, 1991
02383000	Rock Creek near Fairmount	34°21'32"	84°46'46"	6.17	Oct. 1, 1951 to Sept. 30, 1974
02383500	Coosawatee River near Pine Chapel	34°33'51"	84°49'59"	831	Nov. 11, 1938 to Sept. 30, 1991
02384000	Conasauga River near Tennga	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, 1991
02384540	Mill Creek near Crandall	34°52'19"	84°43'17"	8.27	Jan. 30, 1985 to Sept. 30, 1991
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, 1991
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, 1991
02387500	Oostanula River at Resaca	34°34'42"	84°56'29"	1,600	Nov. 1, 1892 to Sept. 30, 1991
02388000	West Armurchee Creek near Subigna	34°34'04"	85°09'16"	36.4	Apr. 1, 1939 to June 30, 1940
					May 1, 1960 to Sept. 30, 1991
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 Armurchee	34°22'18"	85°15'50"	16.6	Mar. 2, 1982 to Sept. 30, 1991
02388500	Oostanula River at Rome	34°18'02"	85°08'30"	2,120	Oct. 1, 1939 to Sept. 30, 1991
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, 1991
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, 1991
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, 1991
02395120	Two Run Creek near Kingston	34°14'34"	84°53'23"	33.1	May 2, 1980 to Sept. 30, 1991
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, 1991
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, 1991
02397410	Cedar Creek at Cedartown	33°59'45"	85°15'53"	66.9	May 4, 1981 to Sept. 30, 1991
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"	192	Mar. 11, 1937 to Sept. 30, 1991
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, 1991
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	Nottely 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, 1991
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, 1991
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, 73.91 ft below land surface datum, Oct. 3, 7-8, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73.81	73.59	73.45	73.12	72.16	70.06	68.22	68.02	68.01	67.86	67.36	66.65
2	73.86	73.58	73.34	73.10	72.09	69.83	68.18	68.00	68.00	67.85	67.40	66.70
3	73.91	73.56	73.22	73.07	71.95	69.41	68.19	67.99	67.96	67.85	67.42	66.68
4	73.88	73.45	73.25	73.09	71.85	69.54	68.18	67.99	67.94	67.86	67.36	66.60
5	73.87	73.31	73.38	73.11	71.69	69.70	68.10	67.99	67.94	67.90	67.31	66.59
6	73.88	73.36	73.26	73.08	71.57	69.61	68.03	68.01	68.01	67.92	67.34	66.66
7	73.91	73.43	73.12	72.97	71.37	69.52	68.00	68.07	68.09	67.94	67.35	66.66
8	73.91	73.44	73.15	72.98	71.25	69.50	67.98	68.07	68.11	67.90	67.27	66.66
9	73.82	73.29	73.30	73.07	71.20	69.54	67.93	68.03	68.14	67.83	67.17	66.68
10	73.59	73.26	73.27	73.01	71.12	69.60	67.91	68.06	68.11	67.80	67.12	66.65
11	73.52	73.53	73.23	72.79	71.12	69.58	67.99	68.07	68.06	67.80	67.12	66.61
12	73.46	73.53	73.22	72.68	71.14	69.40	68.06	68.02	68.02	67.80	67.10	66.59
13	73.52	73.51	73.19	72.81	70.86	69.11	68.04	67.96	67.99	67.78	67.06	66.59
14	73.59	73.59	73.24	72.85	70.55	69.04	67.99	67.92	67.98	67.77	67.03	66.61
15	73.68	73.61	73.23	72.70	70.68	69.19	67.98	67.95	67.94	67.80	67.02	66.68
16	73.73	73.49	73.19	72.60	70.95	69.28	67.99	68.00	67.89	67.80	67.00	66.73
17	73.72	73.34	73.13	72.78	70.86	69.09	67.94	68.02	67.87	67.74	66.91	66.73
18	73.60	73.38	72.98	72.82	70.73	68.79	67.86	68.03	67.88	67.72	66.82	66.75
19	73.61	73.40	73.03	72.59	70.61	68.80	67.86	68.05	67.89	67.72	66.80	66.78
20	73.65	73.41	73.15	72.42	70.56	68.84	67.86	68.07	67.90	67.74	66.78	66.83
21	73.61	73.42	73.15	72.46	70.47	68.79	67.86	68.06	67.89	67.72	66.84	66.92
22	73.51	73.35	73.08	72.55	70.30	68.67	67.92	68.08	67.89	67.68	66.80	66.98
23	73.43	73.25	73.03	72.59	70.20	68.59	67.89	68.11	67.90	67.61	66.80	67.00
24	73.44	73.26	73.07	72.43	70.27	68.47	67.99	68.08	67.96	67.55	66.81	66.94
25	73.38	73.32	73.19	72.45	70.16	68.44	68.04	68.04	67.98	67.58	66.79	66.77
26	73.50	73.36	73.24	72.42	70.11	68.42	68.03	68.04	67.96	67.60	66.76	66.83
27	73.65	73.35	73.22	72.29	70.23	68.30	67.99	68.11	67.98	67.58	66.75	66.96
28	73.63	73.33	73.19	72.08	70.21	68.14	67.98	68.14	67.99	67.53	66.73	67.13
29	73.63	73.37	73.15	72.09	---	67.90	68.00	68.09	67.94	67.49	66.70	67.23
30	73.66	73.50	73.09	71.96	---	68.01	68.04	68.02	67.89	67.46	66.62	67.21
31	73.62	---	73.08	72.04	---	68.16	---	68.02	---	67.42	66.59	---

WTR YR 1991

MEAN 69.87

HIGHEST 66.59 AUG 31, SEP 5, 12, 13,

LOWEST 73.91 OCT 3, 7, 8

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 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.13	5.44	6.62	7.17	1.47	3.93	3.34	.59	.52	3.28	2.94	3.35
2	9.18	5.57	6.65	7.18	1.76	3.37	3.45	1.02	.65	3.39	2.44	3.49
3	9.24	5.64	6.67	7.13	1.97	1.85	3.56	1.47	1.05	3.55	2.49	3.60
4	9.29	5.72	6.72	7.10	2.13	1.49	3.64	1.83	1.43	3.64	2.69	3.72
5	9.34	5.80	6.81	7.09	2.26	1.82	3.61	2.02	1.82	3.70	2.88	3.83
6	9.38	5.95	6.80	7.07	2.35	2.03	3.09	1.86	2.04	3.74	3.04	3.94
7	9.42	6.08	6.83	7.03	2.36	2.22	3.08	2.20	2.16	3.69	3.20	4.04
8	9.46	6.19	6.87	7.07	2.42	2.40	3.15	2.36	2.16	3.79	3.33	4.13
9	9.50	6.19	6.95	7.13	2.50	2.52	3.07	2.51	2.22	3.89	3.42	4.23
10	9.46	5.65	6.95	7.13	2.60	2.65	3.10	2.63	2.37	3.94	3.42	4.32
11	7.42	5.50	6.97	6.79	2.70	2.76	3.22	2.67	2.49	4.02	3.31	4.42
12	4.19	5.45	7.02	6.14	2.79	2.82	3.34	2.60	2.60	4.10	3.12	4.51
13	3.68	5.49	7.05	5.78	2.84	2.87	3.43	2.73	2.71	4.19	3.29	4.61
14	3.84	5.60	7.10	5.53	2.90	2.91	3.52	2.57	2.52	4.29	3.20	4.69
15	4.03	5.68	7.16	5.37	3.01	3.03	3.60	2.44	2.32	4.39	2.91	4.78
16	4.25	5.73	7.17	5.29	3.12	3.11	3.66	2.61	2.32	4.43	3.07	4.86
17	4.46	5.79	7.21	5.32	3.17	3.10	3.34	1.92	2.04	3.82	3.22	4.94
18	4.63	5.94	7.21	5.31	3.21	2.99	3.29	.90	2.05	3.62	3.36	5.01
19	4.82	6.05	7.25	5.17	3.25	3.06	3.18	1.27	2.23	3.64	3.49	5.09
20	4.98	6.15	7.27	4.09	3.31	3.18	2.68	1.58	2.38	3.73	3.57	5.15
21	5.11	6.25	7.15	3.75	3.36	3.26	2.72	1.26	2.48	3.84	3.69	5.23
22	4.91	6.32	6.98	3.78	3.46	3.33	2.89	.28	2.62	3.89	3.81	5.32
23	4.55	6.36	6.88	3.85	3.56	3.38	2.88	.58	2.76	3.94	3.93	5.40
24	4.54	6.02	6.86	3.67	3.63	3.44	2.81	1.04	2.92	4.06	3.96	5.47
25	4.64	5.45	6.93	2.63	3.68	3.49	2.97	1.37	3.09	4.20	3.98	5.55
26	4.80	5.38	6.95	2.64	3.74	3.52	3.09	1.62	3.19	4.34	3.77	5.62
27	4.94	5.95	6.97	2.77	3.82	3.58	3.13	.74	3.29	4.42	3.24	5.72
28	5.04	6.31	6.99	2.42	3.88	3.62	2.81	.51	3.37	4.50	3.10	5.80
29	5.13	6.47	7.03	2.19	—	3.64	1.51	.38	3.31	4.59	3.08	5.88
30	5.22	6.60	7.04	1.01	—	3.18	1.39	.39	3.13	4.52	3.12	5.90
31	5.32	—	7.08	1.00	—	3.23	—	.28	—	3.66	3.22	—

WTR YR 1991 MEAN 4.09 HIGHEST .28 MAY 22, 31 LOWEST 9.50 OCT 9

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, January 6-28, May 25 to June 23, and July 11-15, 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 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58.39	56.53	55.59	54.26	53.47	53.08	52.71	51.27	50.31	50.18	50.22	50.65
2	58.41	56.50	55.47	54.21	53.41	52.87	52.66	51.28	50.25	50.16	50.23	50.69
3	58.44	56.46	55.29	54.19	53.37	52.53	52.68	51.28	50.25	50.20	50.26	50.65
4	58.40	56.38	55.31	54.18	53.31	52.65	52.63	51.25	50.28	50.29	50.24	50.55
5	58.37	56.27	55.40	54.09	53.23	52.80	52.51	51.23	49.94	50.33	50.27	50.55
6	58.33	56.33	55.26	54.24	53.15	52.67	52.36	51.25	49.99	50.32	50.32	50.61
7	58.36	56.38	55.11	54.23	53.01	52.62	52.25	51.31	50.11	50.27	50.35	50.66
8	58.36	56.38	55.07	54.17	52.94	52.66	52.20	51.29	50.27	50.22	50.33	50.70
9	58.24	56.15	55.20	54.19	52.93	52.70	51.98	51.14	50.39	50.12	50.30	50.75
10	57.94	56.07	55.12	54.12	52.91	52.79	51.93	51.09	50.41	50.02	50.37	50.74
11	57.86	56.27	55.05	53.91	52.99	52.82	52.00	51.04	50.39	50.04	50.44	50.71
12	57.64	56.21	55.00	53.96	53.04	52.68	51.99	50.90	50.43	49.94	50.44	50.74
13	57.53	56.15	54.95	54.05	52.81	52.44	51.89	50.76	50.53	49.93	50.45	50.78
14	57.50	56.18	54.98	53.95	52.59	52.43	51.81	50.68	50.51	50.11	50.45	50.86
15	57.50	56.16	54.93	53.79	52.82	52.61	51.75	50.70	50.48	50.23	50.50	51.03
16	57.48	56.02	54.86	53.80	53.32	52.75	51.72	50.72	50.49	50.15	50.55	51.13
17	57.35	55.89	54.74	53.95	53.50	52.65	51.65	50.67	50.48	50.12	50.52	51.16
18	57.16	55.90	54.51	53.91	53.53	52.42	51.55	50.68	50.53	50.06	50.51	51.19
19	57.13	55.91	54.58	53.70	53.49	52.46	51.47	50.72	50.51	50.06	50.54	51.22
20	57.10	55.91	54.62	53.78	53.46	52.56	51.39	50.69	50.59	50.07	50.59	51.25
21	57.00	55.91	54.58	53.92	53.43	52.58	51.33	50.60	50.60	50.03	50.67	51.26
22	56.83	55.84	54.49	53.83	53.32	52.59	51.38	50.47	50.60	50.04	50.68	51.32
23	56.73	55.76	54.37	53.80	53.27	52.58	51.34	50.44	50.66	50.03	50.71	51.33
24	56.72	55.75	54.40	53.68	53.31	52.61	51.34	50.48	50.35	50.01	50.80	51.26
25	56.62	55.76	54.47	53.53	53.20	52.71	51.34	50.50	50.19	50.13	50.81	51.13
26	56.70	55.71	54.44	53.51	53.13	52.75	51.27	50.50	50.16	50.26	50.79	51.17
27	56.81	55.68	54.39	53.43	53.23	52.67	51.27	50.65	50.20	50.30	50.73	51.25
28	56.74	55.59	54.36	53.36	53.24	52.62	51.32	50.70	50.27	50.35	50.71	51.35
29	56.72	55.58	54.33	53.39	—	52.45	51.34	50.63	50.26	50.39	50.67	51.42
30	56.71	55.67	54.24	53.15	—	52.61	51.36	50.38	50.20	50.38	50.60	51.41
31	56.61	—	54.23	53.28	—	52.72	—	50.34	—	50.32	50.58	—

WTR YR 1991 MEAN 52.72 HIGHEST 49.93 JULY 13 LOWEST 58.44 OCT 3

GROUND-WATER LEVELS

CHATHAM COUNTY

320122080510204 Local number, 39Q003.

LOCATION.—Lat 32°01'22", long 80°51'01" (revised), 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 period of missing record, September 19-22, 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 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34.75	33.78	33.37	32.34	31.57	31.13	31.48	31.08	30.66	31.01	31.21	30.97
2	34.82	33.71	33.35	32.52	31.62	31.25	31.58	31.13	30.56	31.13	31.37	30.64
3	34.86	33.71	33.18	32.53	31.90	31.01	31.46	31.04	30.59	31.21	31.43	30.37
4	34.91	33.75	33.56	32.36	31.91	31.43	31.55	31.16	30.65	31.45	31.34	30.41
5	34.89	33.58	33.54	32.31	31.83	31.40	31.74	31.22	30.11	31.36	31.19	30.18
6	34.84	33.65	33.23	32.49	31.69	31.27	31.76	31.26	30.17	31.26	31.19	30.57
7	35.00	33.67	32.98	32.38	31.43	31.41	31.74	31.28	30.26	31.24	31.22	30.70
8	34.89	33.49	32.84	32.17	31.26	31.12	31.71	30.98	30.55	31.17	31.16	30.71
9	34.67	33.09	33.02	32.23	31.01	31.00	31.59	30.99	30.79	31.06	31.05	30.78
10	34.22	33.68	33.08	32.07	31.08	31.27	31.62	31.08	30.86	30.98	31.22	30.96
11	34.27	33.87	32.98	31.72	31.22	31.13	31.44	31.08	30.84	31.10	31.11	30.95
12	34.19	33.88	32.99	31.91	31.28	31.08	31.26	30.97	30.89	31.04	31.03	30.93
13	34.34	33.61	33.21	32.15	31.10	30.96	31.35	30.88	30.99	31.12	31.04	30.90
14	34.35	33.68	33.20	31.95	31.25	31.12	31.56	30.82	30.90	31.41	31.18	30.87
15	34.43	33.73	32.97	31.74	31.99	31.10	31.33	30.92	30.84	31.42	31.23	30.91
16	34.46	33.62	33.17	31.83	32.30	31.10	31.40	30.96	30.83	31.24	31.17	30.54
17	34.26	33.60	33.00	32.18	31.99	31.17	31.42	31.01	30.83	31.27	31.01	30.50
18	34.28	33.57	32.69	32.09	31.82	31.00	31.32	31.19	30.86	31.30	30.86	30.50
19	34.26	33.53	32.94	31.76	31.71	31.11	31.08	30.98	30.80	31.36	30.96	30.30
20	34.20	33.60	32.75	31.89	31.76	31.15	31.07	30.61	30.93	31.40	31.14	30.17
21	34.15	33.53	32.83	32.16	31.75	31.23	31.30	30.56	30.97	31.43	31.19	30.17
22	34.13	33.47	32.88	31.98	31.56	31.30	31.32	30.61	31.02	31.43	31.13	30.71
23	34.22	33.53	32.80	31.94	31.27	31.40	31.13	30.67	31.14	31.35	30.97	30.81
24	34.08	33.71	33.05	31.67	31.26	31.49	31.15	30.85	30.69	31.34	31.03	30.69
25	34.18	33.80	32.87	31.45	31.18	31.37	31.08	30.93	30.39	31.44	31.00	30.78
26	33.98	33.80	32.67	31.56	31.13	31.33	31.07	30.95	30.53	31.46	30.91	30.82
27	33.81	33.59	32.45	31.55	31.25	31.29	31.13	31.14	30.68	31.38	30.83	30.72
28	33.84	33.52	32.57	31.53	31.27	31.42	31.21	31.11	30.87	31.40	30.85	30.72
29	33.77	33.61	32.63	31.50	---	31.20	31.18	30.99	30.91	31.38	30.78	30.85
30	33.82	33.37	32.56	31.17	---	31.51	31.17	30.64	30.98	31.40	30.80	30.95
31	33.78	---	32.65	31.70	---	31.31	---	30.60	---	31.32	30.82	---

WTR YR 1991

MEAN 31.82

HIGHEST 30.11 JUNE 5

LOWEST 35.00 OCT 7

GROUND-WATER LEVELS

CHATHAM COUNTY

320202080541201 Local number, 38Q002.

LOCATION.--Lat 32°02'01", long 80°54'11" (revised), 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, December 3-21, 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 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.63	38.32	37.93	36.31	35.98	35.52	35.78	35.34	34.58	34.85	35.13	34.88
2	39.65	38.24	37.89	36.36	36.02	35.54	35.84	35.34	34.52	34.84	35.22	34.59
3	39.66	38.23	37.72	36.39	36.18	35.38	35.82	35.25	34.52	34.97	35.27	34.59
4	39.66	38.23	38.09	36.37	36.22	35.73	35.87	35.28	34.55	35.14	35.17	34.56
5	39.67	38.11	38.07	36.40	36.21	35.76	36.01	35.26	34.21	35.18	35.08	34.58
6	39.60	38.21	37.76	36.46	36.16	35.68	35.98	35.39	34.26	35.18	35.08	34.64
7	39.71	38.23	37.50	36.46	35.96	35.74	35.96	35.41	34.38	35.14	35.06	34.66
8	39.70	38.15	37.36	36.41	35.80	35.54	35.97	35.19	34.54	35.04	35.00	34.53
9	39.54	37.81	37.54	36.44	35.59	35.45	35.89	35.14	34.65	34.97	34.92	34.58
10	39.17	38.24	37.59	36.38	35.61	35.63	35.84	35.15	34.67	34.91	35.03	34.68
11	39.16	38.39	37.49	36.18	35.71	35.56	35.72	35.09	34.65	34.97	34.99	34.78
12	39.07	38.40	37.49	36.24	35.75	35.43	35.59	35.00	34.69	34.90	34.96	34.88
13	39.11	38.20	37.71	36.34	35.57	35.25	35.60	34.95	34.79	34.93	35.00	34.83
14	39.07	38.23	37.70	36.25	35.62	35.30	35.64	34.88	34.77	35.15	35.07	34.95
15	39.15	38.24	37.46	36.10	36.06	35.35	35.56	34.93	34.74	35.30	35.16	35.09
16	39.12	38.13	37.66	36.12	36.15	35.38	35.60	34.96	34.75	35.26	35.12	35.05
17	39.00	38.07	37.49	36.28	36.08	35.39	35.66	34.99	34.74	35.27	34.97	35.05
18	38.95	37.93	37.17	36.25	36.02	35.27	35.60	35.09	34.79	35.29	34.86	35.07
19	38.90	38.03	37.42	36.05	36.02	35.39	35.40	34.95	34.77	35.32	34.95	35.11
20	38.82	38.08	37.23	36.14	36.09	35.48	35.39	34.78	34.84	35.31	35.07	35.06
21	38.78	38.01	37.30	36.29	36.15	35.54	35.45	34.70	34.85	35.30	35.09	34.85
22	38.79	37.97	37.35	36.21	35.97	35.59	35.52	34.71	34.85	35.28	35.02	34.88
23	38.80	37.99	37.27	36.19	35.71	35.64	35.36	34.72	34.91	35.21	34.97	34.97
24	38.66	38.09	37.43	36.08	35.70	35.68	35.41	34.76	34.60	35.17	35.03	34.96
25	38.73	38.15	37.31	35.94	35.63	35.62	35.34	34.78	34.44	35.26	35.02	34.97
26	38.59	38.20	36.61	35.93	35.59	35.62	35.33	34.78	34.55	35.31	34.97	35.05
27	38.51	38.13	36.55	35.86	35.64	35.56	35.31	34.93	34.61	35.24	34.93	35.00
28	38.47	38.06	36.53	35.80	35.63	35.59	35.35	34.98	34.73	35.20	34.93	34.99
29	38.42	38.15	36.48	35.84	---	35.43	35.38	34.90	34.78	35.24	34.88	35.08
30	38.42	37.96	36.43	35.76	---	35.71	35.40	34.65	34.79	35.28	34.84	35.14
31	38.38	---	36.43	35.98	---	35.64	---	34.61	---	35.23	34.80	---

WTR YR 1991 MEAN 36.04 HIGHEST 34.21 JUNE 5 LOWEST 39.71 OCT 7

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.--Water levels for periods of missing record, November 13-25 and April 7-22, were estimated.

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 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118.16	115.13	114.56	110.60	112.38	110.94	105.48	95.94	95.62	95.20	104.08	103.26
2	118.76	115.03	113.94	110.86	112.30	110.96	105.68	96.59	95.30	95.60	103.98	103.45
3	119.50	114.99	113.67	111.62	112.21	110.51	105.93	96.84	95.64	96.04	104.00	102.74
4	119.62	114.26	113.87	111.94	112.74	110.58	105.86	97.20	96.02	95.98	104.64	102.12
5	119.43	113.89	113.95	111.98	113.11	110.70	105.92	96.55	96.10	95.58	105.06	101.83
6	119.32	114.04	113.85	111.87	113.08	110.59	105.28	96.04	96.40	95.38	105.14	101.44
7	118.95	113.62	113.71	111.94	112.88	111.14	105.03	96.00	96.59	95.24	104.86	102.31
8	118.97	113.91	113.34	112.10	112.00	111.90	104.84	96.90	96.12	95.77	104.58	103.26
9	119.12	114.42	112.91	112.20	111.64	111.78	104.48	96.80	95.46	96.34	104.24	103.00
10	118.72	114.63	112.99	112.34	110.90	111.15	104.29	96.84	95.42	96.35	103.96	102.68
11	118.47	114.78	113.55	112.83	110.94	110.72	104.23	96.60	95.56	96.32	104.09	102.26
12	117.93	114.75	113.81	112.18	110.94	110.48	104.08	95.94	95.38	96.41	103.78	102.24
13	117.19	114.72	114.19	112.12	111.18	109.65	103.84	95.46	95.80	96.34	103.44	101.64
14	116.82	114.86	115.64	112.80	111.46	109.49	103.62	95.09	95.98	95.98	102.74	102.02
15	116.57	114.94	114.60	113.22	111.88	109.21	103.42	94.58	95.62	96.51	102.67	102.22
16	117.27	115.02	114.34	112.96	113.50	109.06	103.25	94.30	94.90	96.74	102.77	101.82
17	117.41	114.80	114.32	113.12	114.05	109.28	103.04	94.04	95.01	97.14	102.80	101.60
18	116.86	114.73	114.98	113.08	113.82	109.40	102.80	93.90	95.86	97.26	103.20	101.68
19	117.11	114.77	115.00	112.12	113.94	108.94	102.59	93.56	95.96	97.66	102.77	101.56
20	116.96	114.95	114.47	111.60	113.52	109.18	102.37	93.66	95.62	97.23	102.87	101.51
21	116.46	114.85	114.45	111.72	112.58	108.86	102.17	94.02	96.18	96.69	100.72	101.60
22	116.52	114.45	113.46	112.10	112.57	108.50	102.08	94.19	95.60	98.20	102.03	102.22
23	116.38	114.66	112.87	112.06	111.54	108.09	101.90	94.46	95.65	99.48	101.96	102.40
24	116.62	114.66	112.26	112.08	111.05	107.45	101.15	94.35	95.77	101.58	101.47	102.36
25	116.40	114.57	112.88	112.22	111.00	107.70	100.98	93.93	96.48	101.91	100.58	102.05
26	116.32	114.58	112.08	112.80	111.06	107.98	100.70	93.30	96.55	101.58	100.86	102.20
27	116.02	114.63	111.94	113.22	111.34	107.92	99.98	92.39	95.99	102.64	101.18	102.51
28	115.78	114.63	111.86	112.54	110.81	107.88	98.86	92.53	95.90	105.30	101.37	102.27
29	115.90	114.71	111.71	112.04	---	107.26	97.65	94.42	95.77	105.50	101.97	102.13
30	115.83	114.93	111.49	112.55	---	106.72	97.79	95.30	95.27	104.58	101.90	102.65
31	115.34	---	111.23	112.63	---	105.84	---	96.04	---	104.00	102.50	---

WTR YR 1991 MEAN 106.37 HIGHEST 92.39 MAY 27 LOWEST 119.62 OCT 4

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, 177.39 ft below land-surface datum, Oct. 8, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	177.14	176.96	176.77	176.38	176.07	175.27	174.86	174.36	173.81	173.96	173.51	173.30
2	177.22	176.96	176.61	176.39	176.04	174.92	174.86	174.25	173.72	174.04	173.59	173.37
3	177.32	176.84	176.46	176.38	175.95	174.44	174.93	174.27	173.77	174.02	173.60	173.40
4	177.29	176.65	176.66	176.36	175.90	174.69	174.99	174.17	173.77	173.97	173.54	173.38
5	177.23	176.53	176.85	176.37	175.82	175.06	174.85	174.18	173.77	173.97	173.56	173.36
6	177.26	176.62	176.50	176.28	175.83	174.89	174.83	174.33	173.90	174.02	173.62	173.50
7	177.29	176.70	176.33	176.16	175.65	174.84	174.69	174.35	174.01	174.02	173.79	173.55
8	177.39	176.74	176.36	176.24	175.66	174.95	174.63	174.30	174.00	173.99	173.67	173.51
9	177.26	176.56	176.50	176.30	175.49	175.00	174.70	174.29	174.04	173.91	173.62	173.57
10	176.89	176.45	176.55	176.35	175.40	175.07	174.57	174.25	174.19	173.88	173.51	173.61
11	176.78	176.74	176.45	175.99	175.48	175.13	174.70	174.32	174.33	173.88	173.48	173.61
12	176.65	176.74	176.45	175.86	175.67	175.00	174.69	174.13	174.38	173.89	173.57	173.64
13	176.67	176.77	176.46	175.99	175.38	174.78	174.65	174.01	174.41	173.80	173.58	173.68
14	176.66	176.85	176.48	176.15	175.15	174.74	174.50	173.98	174.55	173.76	173.51	173.71
15	176.80	176.90	176.42	175.90	175.38	174.92	174.52	174.10	174.46	173.80	173.55	173.75
16	176.91	176.81	176.37	175.86	175.81	175.04	174.53	174.11	174.30	173.84	173.52	173.80
17	176.93	176.63	176.32	176.11	175.69	174.94	174.44	174.10	174.31	173.81	173.48	173.84
18	176.79	176.59	176.13	176.10	175.59	174.76	174.36	174.07	174.36	173.81	173.34	173.84
19	176.75	176.67	176.33	175.77	175.62	174.82	174.36	174.04	174.28	173.90	173.35	173.85
20	176.73	176.70	176.38	175.60	175.69	174.91	174.16	174.11	174.24	173.94	173.35	173.87
21	176.69	176.73	176.34	175.83	175.52	174.94	174.09	174.07	174.22	173.86	173.48	173.88
22	176.62	176.65	176.26	175.92	175.37	174.85	174.12	174.08	174.17	173.85	173.50	173.88
23	176.56	176.41	176.12	175.97	175.29	174.82	174.19	174.07	174.19	173.80	173.52	173.98
24	176.53	176.41	176.26	175.87	175.31	174.81	174.24	174.03	174.35	173.76	173.50	173.96
25	176.51	176.49	176.39	175.91	175.26	174.89	174.30	173.95	174.31	173.81	173.54	173.70
26	176.62	176.65	176.54	175.91	175.27	174.99	174.26	173.98	174.23	173.84	173.49	173.69
27	176.80	176.67	176.43	175.79	175.53	174.85	174.25	173.91	174.22	173.76	173.54	173.82
28	176.73	176.62	176.50	175.72	175.47	174.74	174.21	174.00	174.23	173.66	173.55	174.01
29	176.81	176.73	176.34	175.76	—	174.38	174.28	174.00	174.12	173.61	173.54	174.07
30	176.91	176.89	176.29	175.71	—	174.56	174.39	173.92	173.97	173.60	173.39	174.11
31	176.94	—	176.28	175.93	—	174.75	—	173.89	—	173.59	173.35	—

WTR YR 1991 MEAN 175.03 HIGHEST 173.30 SEPT 1 LOWEST 177.39 OCT 8

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 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49.04	49.36	49.55	50.02	46.51	44.03	39.88	41.23	41.84	40.21	41.60	42.07
2	49.05	49.36	49.55	50.02	46.13	43.70	39.88	41.22	44.01	41.73	42.51	43.60
3	49.06	49.36	49.56	50.02	45.81	42.99	39.92	41.99	39.61	43.26	40.53	46.49
4	49.08	49.35	49.60	50.02	45.54	42.47	39.96	41.22	39.57	41.80	40.55	45.68
5	49.08	49.35	49.59	50.02	45.27	41.97	40.51	44.40	39.56	40.87	40.62	42.43
6	49.08	49.38	49.58	50.00	45.04	41.45	44.37	41.29	41.08	40.73	40.78	42.49
7	49.09	49.38	49.59	49.99	44.82	41.15	40.50	41.28	44.00	40.72	41.97	42.53
8	49.10	49.38	49.62	50.00	44.65	40.86	40.08	41.22	44.58	40.69	45.09	44.00
9	49.11	49.36	49.62	50.00	44.52	40.60	40.09	41.19	41.40	40.61	43.23	45.70
10	49.13	49.40	49.62	49.97	44.40	40.39	40.14	41.22	39.93	40.47	41.02	42.70
11	49.14	49.41	49.63	49.90	44.34	40.15	40.19	41.22	41.37	40.36	41.02	42.73
12	49.16	49.40	49.64	49.81	44.27	39.92	40.24	41.15	44.27	40.31	41.02	44.24
13	49.17	49.41	49.79	49.73	44.12	39.71	40.26	41.02	42.34	40.27	41.03	46.88
14	49.18	49.42	49.93	49.65	44.07	39.70	40.26	40.89	44.61	40.30	41.06	49.37
15	49.19	49.42	49.92	49.57	44.12	39.72	40.30	40.79	45.75	40.36	41.10	43.84
16	49.20	49.40	49.93	49.56	44.14	39.70	40.34	40.70	41.18	40.40	41.12	43.14
17	49.22	49.39	49.93	49.48	44.06	39.60	40.36	40.62	40.44	40.41	41.13	43.16
18	49.22	49.39	49.93	49.38	44.03	39.53	40.39	40.56	40.44	40.39	41.14	43.19
19	49.23	49.41	49.97	49.24	44.01	39.57	40.44	40.51	40.47	40.37	41.16	43.24
20	49.23	49.43	49.98	49.13	44.02	39.56	40.49	40.48	40.50	40.33	41.76	43.28
21	49.24	49.44	49.97	48.94	44.01	39.54	40.55	40.46	40.52	40.28	41.29	43.33
22	49.24	49.44	49.98	48.79	43.97	39.52	40.60	40.47	40.55	40.24	42.66	43.37
23	49.27	49.45	49.97	48.65	44.00	39.52	40.67	40.50	40.60	41.38	45.66	43.42
24	49.26	49.47	50.00	48.51	44.02	39.52	40.79	40.51	40.64	43.31	42.52	43.45
25	49.27	49.47	50.00	48.35	44.01	39.56	40.84	40.50	40.65	40.32	41.57	43.49
26	49.28	49.49	50.01	48.06	44.04	39.58	40.88	40.42	40.60	40.32	41.62	43.56
27	49.29	49.51	50.00	47.83	44.06	39.58	40.92	40.31	40.47	40.34	41.70	43.62
28	49.29	49.53	50.01	47.68	44.06	39.57	40.97	40.17	40.33	40.34	42.88	43.70
29	49.31	49.55	50.00	47.55	---	39.54	42.76	40.03	40.25	40.35	43.05	43.75
30	49.32	49.55	50.00	47.24	---	39.74	43.18	39.79	40.22	40.40	46.15	43.79
31	49.34	---	50.02	46.91	---	39.83	---	39.61	---	40.44	42.46	---
WTR YR 1991	MEAN 44.34			HIGHEST	39.52	MAR 22-24	LOWEST 50.02			DEC 31, JAN 1-5		

GROUND-WATER LEVELS

DOUGHERTY COUNTY

313532084203501 Local number, 11L002.

LOCATION.—Lat 31°35'32", long 84°20'32" (revised), 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, March 30 to April 21, and May 25-26, 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 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138.17	129.12	122.77	116.11	110.14	107.01	103.78	102.18	101.72	110.82	106.56	104.73
2	137.93	128.85	122.46	115.87	109.94	106.63	103.74	102.03	101.80	110.49	106.56	105.45
3	137.70	128.58	122.09	115.70	109.73	106.18	103.73	101.92	101.82	110.22	106.53	105.88
4	137.41	128.25	122.04	115.66	109.55	106.27	103.73	101.85	101.84	110.08	106.47	106.03
5	137.15	127.89	121.85	115.55	109.34	106.31	103.68	101.77	101.97	110.05	106.40	106.21
6	136.87	127.76	121.39	115.39	109.17	106.07	103.60	101.57	102.34	110.04	106.35	106.56
7	136.59	127.60	120.88	115.13	109.08	105.86	103.53	101.51	102.80	109.86	106.23	107.04
8	136.31	127.37	120.62	114.98	109.06	105.84	103.49	101.37	103.25	109.53	105.99	107.57
9	135.95	126.92	120.47	114.75	109.06	105.85	103.44	101.15	103.68	109.19	105.78	108.10
10	135.56	126.68	120.15	114.44	109.02	105.91	103.39	101.05	103.96	108.95	105.54	108.50
11	135.24	126.74	119.82	114.07	109.05	105.78	103.43	100.92	104.24	108.88	105.40	108.90
12	134.72	126.53	119.56	113.85	109.03	105.48	103.45	100.80	104.72	108.90	105.19	109.43
13	134.28	126.27	119.34	113.72	108.67	105.12	103.41	100.64	105.24	108.94	104.96	110.09
14	133.85	126.10	119.34	113.55	108.27	105.02	103.32	100.42	105.80	109.01	104.80	110.78
15	133.59	125.82	119.23	113.24	108.21	105.00	103.28	100.24	106.46	109.08	104.67	111.35
16	133.38	125.27	119.07	113.04	108.30	105.02	103.27	100.04	107.08	108.98	104.55	111.69
17	133.06	124.78	118.85	113.00	108.06	104.81	103.21	99.87	107.69	108.84	104.33	111.88
18	132.57	124.44	118.44	112.77	107.85	104.40	103.10	99.81	108.24	108.80	104.14	112.00
19	132.24	124.13	118.39	112.39	107.72	104.27	103.06	99.70	108.81	108.64	103.97	112.14
20	131.88	123.92	118.42	112.21	107.69	104.17	103.05	99.66	109.27	108.36	103.73	112.35
21	131.54	123.80	118.25	112.16	107.48	104.04	103.05	99.53	109.63	108.01	103.55	112.59
22	131.07	123.61	117.94	112.04	107.19	103.87	103.02	99.54	110.17	107.60	103.32	112.61
23	130.74	123.40	117.64	111.89	107.11	103.68	102.70	99.66	110.79	107.25	103.08	112.42
24	130.64	123.32	117.58	111.55	107.23	103.56	102.59	99.96	111.32	106.98	103.03	112.11
25	130.51	123.31	117.57	111.37	107.19	103.54	102.43	100.26	111.66	106.75	103.15	111.85
26	130.43	123.26	117.52	111.25	107.20	103.48	102.39	100.56	111.76	106.53	103.35	111.64
27	130.33	123.13	117.35	110.97	107.26	103.43	102.32	100.80	111.76	106.41	103.53	111.51
28	130.01	122.96	117.10	110.58	107.22	103.39	102.32	100.96	111.64	106.30	103.60	111.39
29	129.77	122.97	116.77	110.47	—	103.23	102.32	101.14	111.38	106.32	103.97	111.31
30	129.60	122.96	116.47	110.21	—	103.52	102.32	101.39	111.14	106.50	104.07	111.16
31	129.37	—	116.31	110.19	—	103.71	—	101.61	—	106.57	104.31	—

WTR YR 1991

MEAN 111.56

HIGHEST 99.53 MAY 21

LOWEST 138.17 OCT 1

GROUND-WATER LEVELS

DOUGHERTY COUNTY

313554084062501 Local number, 13L002.

LOCATION.—Lat 31°35'51", long 84°06'24" (revised), 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 levels for periods of missing record, December 22 to January 7, February 2-20, March 18-20, 24, and 26-30, April 4-5, 8, 10-11, 14-18, 22-25, and 30, and May 2-5, 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 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153.02	149.91	145.07	139.53	135.21	132.03	127.02	128.42	129.52	133.84	134.52	133.29
2	152.98	150.02	145.57	138.61	135.05	131.26	127.79	128.51	129.52	134.16	134.50	133.64
3	153.13	149.83	145.46	138.33	132.97	129.99	128.40	128.65	129.47	134.81	134.07	132.72
4	153.25	148.61	145.59	138.13	133.13	129.90	128.21	128.78	129.48	134.38	134.04	133.20
5	152.85	147.85	145.49	137.80	133.94	130.18	128.32	128.69	129.23	134.75	132.96	133.61
6	153.08	148.52	144.84	137.19	134.01	130.48	128.42	128.60	129.52	134.20	133.78	134.08
7	152.43	148.95	142.66	136.56	133.77	130.60	128.32	129.43	129.03	134.22	133.96	134.31
8	152.73	148.88	143.22	137.04	133.89	130.70	128.37	129.64	129.17	134.79	134.06	134.49
9	152.87	148.60	143.97	137.25	133.70	130.65	128.40	129.42	129.77	134.85	134.19	134.76
10	152.84	148.45	143.79	137.21	132.48	130.26	128.30	129.45	130.41	133.88	134.20	135.11
11	152.39	148.54	143.74	137.08	131.73	128.88	128.35	129.50	130.80	133.59	133.97	135.70
12	152.46	148.27	143.88	136.04	132.40	129.34	128.42	128.33	131.33	131.76	133.65	136.28
13	152.53	147.10	144.20	136.13	132.83	129.47	128.02	128.17	131.60	131.04	133.50	136.83
14	152.56	147.68	144.39	136.24	132.76	129.22	128.18	128.35	132.56	130.63	133.92	137.11
15	152.58	147.73	144.09	136.19	132.48	129.11	128.26	128.58	133.46	130.59	134.25	137.48
16	152.26	146.61	143.66	135.14	132.34	129.14	128.39	128.61	133.95	132.23	134.34	137.12
17	152.44	147.35	142.57	133.75	132.43	128.37	128.54	129.19	134.26	131.28	134.44	138.08
18	152.24	147.56	141.84	135.29	132.16	128.57	128.45	129.48	134.60	133.52	134.52	138.74
19	152.27	147.56	142.30	135.89	130.99	128.07	128.40	128.76	134.73	134.64	134.32	139.23
20	152.14	147.67	142.56	135.76	131.58	128.17	128.37	129.35	134.80	135.12	134.30	139.42
21	152.09	147.83	142.66	133.90	131.63	128.24	128.34	128.53	135.24	134.97	134.72	139.67
22	152.09	147.61	141.79	134.72	131.84	127.87	128.43	129.06	135.35	134.75	134.95	139.61
23	152.09	147.25	141.66	135.09	131.99	128.07	128.52	129.50	135.35	134.89	135.13	139.37
24	152.09	146.76	141.29	134.85	130.71	128.17	128.61	129.52	135.38	134.98	135.15	139.36
25	152.09	146.28	140.72	134.09	131.62	128.24	128.70	129.52	135.18	135.28	134.78	139.50
26	151.36	145.07	140.64	132.63	131.22	128.35	129.81	129.52	134.04	135.52	133.00	139.74
27	151.20	143.15	140.78	132.20	131.84	128.51	129.25	129.46	134.40	135.24	133.77	139.57
28	149.12	144.86	140.59	132.61	131.99	128.35	128.02	129.34	134.52	135.41	134.24	139.82
29	149.27	144.51	140.57	133.43	—	128.14	127.96	129.25	133.46	135.27	134.50	139.70
30	150.08	145.12	140.55	133.88	—	128.22	128.13	129.43	133.44	134.95	133.59	139.57
31	150.15	—	140.19	134.87	—	128.38	—	129.52	—	134.77	131.96	—

WTR YR 1991

MEAN 136.28

HIGHEST 127.02 APR 1

LOWEST 153.25 OCT 4

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 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41.75	42.59	43.48	44.08	39.64	38.34	34.48	33.27	30.13	30.43	26.27	27.19
2	41.93	42.65	43.49	44.03	39.16	38.01	34.37	33.11	30.04	30.43	26.20	27.32
3	42.00	42.69	43.50	44.04	38.72	36.66	34.29	32.95	29.98	30.46	26.04	27.40
4	41.95	42.67	43.64	44.07	38.46	35.47	34.20	32.84	29.94	30.51	25.67	27.48
5	41.89	42.68	43.64	44.06	38.20	35.09	34.11	32.82	29.96	30.57	25.58	27.67
6	41.98	42.81	43.61	44.04	38.01	34.42	34.06	32.73	30.08	30.65	25.74	27.86
7	42.01	42.83	43.64	44.04	37.99	34.19	34.13	32.66	30.15	30.69	25.75	27.94
8	42.05	42.87	43.70	44.14	38.04	34.11	34.24	32.47	30.19	30.67	25.71	28.03
9	42.13	42.78	43.75	44.15	38.12	34.08	34.25	32.25	30.27	30.65	25.72	28.15
10	42.09	42.91	43.74	44.10	38.13	34.14	34.22	32.04	30.32	30.69	25.80	28.30
11	42.11	42.98	43.78	43.92	38.24	34.15	34.33	31.57	30.40	30.64	25.89	28.49
12	42.11	42.95	43.82	43.83	38.28	34.13	34.40	30.75	30.50	30.63	25.93	28.59
13	42.17	42.99	43.85	43.83	38.03	34.03	34.39	30.39	30.62	30.62	25.94	28.63
14	42.23	43.00	43.90	43.76	37.97	34.26	34.39	30.13	30.78	30.70	25.95	28.75
15	42.27	42.98	43.92	43.61	38.30	34.50	34.48	30.05	31.00	30.60	26.03	28.89
16	42.29	42.99	43.95	43.58	38.56	34.61	34.61	30.02	31.06	30.34	26.06	29.01
17	42.30	43.02	43.93	43.58	38.40	34.49	34.61	30.02	31.05	29.33	26.05	29.10
18	42.27	43.07	43.92	43.49	38.36	34.27	34.52	29.99	31.15	28.00	26.00	29.21
19	42.33	43.08	44.02	43.23	38.35	34.33	34.55	30.03	31.24	27.37	26.02	29.31
20	42.36	43.14	44.02	42.99	38.41	34.32	34.60	30.06	31.33	27.35	26.10	29.42
21	42.37	43.16	43.96	42.83	38.40	34.28	34.63	30.01	31.41	27.18	26.24	29.56
22	42.34	43.13	43.94	42.69	38.31	34.23	34.65	29.95	31.50	27.03	26.26	29.66
23	42.36	43.12	43.95	42.56	38.37	34.22	34.46	30.00	31.57	26.92	26.37	29.74
24	42.34	43.23	44.04	42.41	38.49	34.23	34.24	30.12	31.69	26.89	26.47	29.79
25	42.41	43.32	43.96	42.28	38.42	34.30	33.97	30.01	31.72	26.90	26.53	29.76
26	42.45	43.36	43.98	42.00	38.47	34.33	33.74	30.00	31.51	26.89	26.61	29.89
27	42.49	43.36	43.99	41.74	38.53	34.27	33.52	30.08	31.22	26.82	26.72	30.04
28	42.49	43.42	43.99	41.58	38.47	34.22	33.43	30.08	30.93	26.76	26.79	30.20
29	42.52	43.49	43.99	41.55	—	34.05	33.41	30.07	30.66	26.74	26.89	30.30
30	42.54	43.53	43.97	40.60	—	34.39	33.40	30.04	30.49	26.74	26.96	30.34
31	42.56	—	44.03	39.78	—	34.48	—	30.12	—	26.47	27.06	—
WTR YR 1991	MEAN 35.42		HIGHEST 25.58		AUG 5		LOWEST 44.15		JAN 9			

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.

Water levels for periods of missing record, January 14-27, and June 6 to July 2, were estimated.

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

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 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.52	8.23	8.53	8.15	7.18	6.90	6.40	6.53	6.10	6.21	6.31	6.96
2	8.56	8.25	8.46	8.11	7.26	6.70	6.40	6.57	6.10	6.24	6.34	7.06
3	8.60	8.26	8.33	8.13	7.20	6.53	6.42	6.61	6.12	6.12	6.39	7.10
4	8.61	8.19	8.27	8.15	7.16	6.59	6.45	6.59	6.14	6.16	6.44	7.07
5	8.62	8.23	8.35	8.18	7.14	6.72	6.42	6.50	6.16	6.18	6.46	7.05
6	8.64	8.25	8.30	8.17	7.12	6.69	6.38	6.43	6.20	6.19	6.55	7.12
7	8.68	8.24	8.27	8.11	7.12	6.65	6.38	6.46	6.20	6.24	6.61	7.17
8	8.70	8.27	8.31	8.12	7.14	6.62	6.38	6.47	6.20	6.24	6.59	7.20
9	8.69	8.14	8.38	8.15	7.18	6.48	6.35	6.43	6.22	6.20	6.58	7.22
10	8.58	8.09	8.38	8.11	7.17	6.36	6.42	6.43	6.23	6.23	6.59	7.25
11	8.46	8.23	8.38	7.85	7.26	6.34	6.50	6.45	6.24	6.24	6.66	7.25
12	8.32	8.23	8.37	7.60	7.28	6.24	6.56	6.36	6.24	6.25	6.66	7.25
13	8.30	8.27	8.39	7.64	7.16	6.10	6.52	6.32	6.23	6.26	6.67	7.27
14	8.38	8.32	8.46	7.64	6.99	6.23	6.48	6.33	6.09	6.29	6.64	7.33
15	8.46	8.33	8.47	7.62	7.18	6.34	6.47	6.37	6.12	6.35	6.62	7.37
16	8.51	8.27	8.45	7.62	7.38	6.40	6.54	6.43	6.15	6.42	6.67	7.44
17	8.51	8.20	8.43	7.68	7.38	6.30	6.54	6.45	6.17	6.32	6.66	7.45
18	8.36	8.23	8.32	7.68	7.33	6.15	6.50	6.37	6.18	6.18	6.62	7.46
19	8.27	8.25	8.37	7.62	7.34	6.25	6.48	6.28	6.21	6.15	6.62	7.48
20	8.32	8.30	8.43	7.60	7.29	6.34	6.51	6.22	6.21	6.16	6.68	7.47
21	8.35	8.33	8.28	7.64	7.22	6.34	6.52	6.19	6.22	6.16	6.79	7.49
22	8.21	8.29	8.19	7.62	7.10	6.36	6.56	6.17	6.16	6.16	6.82	7.53
23	7.92	8.23	8.13	7.57	6.93	6.32	6.59	6.17	6.21	6.15	6.87	7.55
24	7.82	8.25	8.13	7.53	6.92	6.40	6.68	6.19	6.25	6.15	6.92	7.54
25	7.91	8.31	8.17	7.51	6.90	6.46	6.71	6.18	6.20	6.20	6.92	7.50
26	8.02	8.36	8.23	7.44	6.89	6.48	6.68	6.20	5.97	6.25	6.89	7.27
27	8.12	8.38	8.25	7.39	6.94	6.44	6.63	6.25	5.99	6.27	6.91	7.24
28	8.14	8.39	8.21	7.36	6.96	6.40	6.59	6.17	6.05	6.28	6.92	7.35
29	8.19	8.51	8.20	7.41	---	6.20	6.61	6.09	6.10	6.23	6.93	7.46
30	8.23	8.55	8.17	7.30	---	6.26	6.59	6.05	6.16	6.24	6.90	7.47
31	8.20	---	8.15	7.12	---	6.40	---	6.07	---	6.26	6.95	---

WTR YR 1991

MEAN 7.12

HIGHEST 5.97 JUNE 26

LOWEST 8.70 OCT 8

GROUND-WATER LEVELS

GLYNN COUNTY

311007081301702 Local number, 33H133.

LOCATION.—Lat 31°10'06", long 81°30'16" (revised), 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 periods of missing record, October 6-25, and September 25-30, 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 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.82	16.57	17.60	16.31	17.13	14.16	13.32	14.68	12.23	13.15	12.90	8.97
2	18.49	17.26	17.19	16.84	17.36	13.64	13.54	15.25	12.02	13.29	13.72	8.84
3	17.89	17.43	16.48	17.10	17.46	13.45	13.21	14.63	12.48	13.94	13.40	8.60
4	17.76	17.38	17.00	16.04	17.26	13.76	12.90	14.35	13.05	14.88	12.88	8.58
5	18.36	17.73	17.71	16.52	17.95	14.55	12.48	13.34	12.43	14.29	13.22	8.08
6	18.18	18.17	16.58	17.02	17.77	14.48	11.76	13.45	11.46	14.83	13.88	8.96
7	18.42	18.14	16.91	17.37	17.92	14.58	12.05	13.09	12.50	14.16	13.39	8.86
8	18.77	17.42	17.39	17.56	17.03	13.65	12.63	13.66	12.31	13.63	13.12	8.69
9	18.56	17.50	17.53	17.13	16.33	14.19	12.58	12.69	12.22	12.54	13.33	8.86
10	17.74	17.58	17.54	16.07	16.09	14.20	12.73	12.89	12.24	12.93	12.63	8.73
11	17.50	16.91	17.65	16.30	16.42	13.57	13.00	11.93	12.83	12.71	12.62	8.39
12	17.66	17.04	17.98	16.00	17.07	13.42	12.86	11.70	12.46	12.88	13.16	8.63
13	17.54	17.51	17.59	16.78	16.53	13.25	13.48	12.02	11.87	13.25	12.27	9.38
14	17.40	17.66	17.90	17.27	16.62	13.37	13.48	12.20	12.44	13.38	13.09	9.66
15	18.00	17.84	17.69	17.56	16.33	13.76	13.65	12.17	12.27	13.91	12.78	9.89
16	19.24	17.41	18.02	17.37	17.80	13.77	14.20	11.27	12.06	14.21	13.03	9.81
17	18.80	17.86	18.12	17.00	17.93	13.24	13.19	11.43	12.27	14.30	13.38	9.37
18	17.76	17.72	17.86	17.39	18.01	10.31	13.22	11.06	12.90	13.93	12.70	8.92
19	17.82	17.58	18.02	16.68	17.47	8.61	13.11	11.18	13.28	12.53	12.58	9.15
20	18.05	17.77	16.87	16.15	16.21	7.74	13.19	11.45	12.48	13.20	12.96	8.88
21	17.89	16.38	17.12	16.22	14.84	9.82	13.07	11.52	12.31	13.32	12.63	9.52
22	17.62	17.46	17.47	16.86	14.55	11.22	13.77	11.68	12.21	13.50	12.57	8.72
23	18.03	16.75	17.02	16.36	14.01	12.58	13.64	11.89	12.39	13.88	11.20	8.17
24	17.39	16.87	17.03	15.66	13.37	13.51	13.69	12.71	13.11	14.70	11.41	7.97
25	17.37	17.63	16.52	16.09	13.61	13.43	12.13	11.94	12.77	12.97	10.23	7.26
26	17.30	17.07	17.08	16.37	14.26	12.71	11.97	11.77	13.05	13.22	9.53	6.79
27	18.16	16.79	17.22	15.13	14.90	13.15	12.20	11.54	13.34	13.82	9.45	7.45
28	17.48	17.46	16.94	16.35	13.79	12.53	12.88	12.02	12.93	12.78	9.55	7.66
29	17.00	17.12	16.91	17.03	---	12.55	12.95	11.90	12.61	12.84	7.99	8.33
30	16.80	17.13	16.59	17.31	---	12.65	13.90	12.54	12.59	13.30	8.64	9.33
31	16.61	---	16.78	17.01	---	12.85	---	12.25	---	13.71	8.66	---

WTR YR 1991

MEAN 14.22

HIGHEST 6.79 SEPT 26

LOWEST 19.24 OCT 16

GROUND-WATER LEVELS

LAURENS COUNTY

322652083033001 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.

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 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.23	32.27	31.88	31.41	25.14	25.97	25.72	28.38	29.65	31.02	29.00	28.20
2	39.27	32.23	31.87	31.37	24.99	25.54	25.80	28.46	29.79	30.91	28.75	28.30
3	39.31	32.21	31.81	31.32	24.86	24.82	25.91	28.54	29.91	30.89	28.44	28.39
4	39.33	32.16	31.77	31.30	24.79	24.49	26.02	28.62	30.05	30.89	28.23	28.47
5	39.34	32.10	31.86	31.29	24.73	24.41	26.07	28.66	30.20	30.72	28.13	28.57
6	39.36	32.10	31.82	31.26	24.69	24.31	26.12	28.69	30.30	30.37	28.12	28.73
7	39.39	32.17	31.79	31.18	24.62	24.26	26.18	28.79	30.40	30.04	28.13	28.90
8	39.42	32.23	31.75	31.16	24.58	24.29	26.27	28.87	30.52	29.78	28.14	29.03
9	39.46	32.21	31.79	31.17	24.59	24.34	26.36	28.91	30.63	29.59	28.17	29.17
10	39.44	32.03	31.82	31.16	24.61	24.39	26.48	28.88	30.75	29.49	28.25	29.30
11	39.39	32.03	31.88	30.95	24.68	24.44	26.64	28.82	30.85	29.45	28.35	29.41
12	38.76	31.97	31.97	30.64	24.77	24.44	26.81	28.67	30.92	29.48	28.45	29.53
13	37.70	31.86	31.97	30.33	24.75	24.36	26.94	28.53	31.04	29.53	28.56	29.66
14	37.04	31.81	32.00	30.04	24.71	24.35	27.02	28.41	31.16	29.65	28.61	29.81
15	36.64	31.77	32.03	29.69	24.84	24.47	27.13	28.36	31.26	29.81	28.60	29.96
16	36.37	31.67	32.02	29.31	25.06	24.60	27.26	28.37	31.33	29.92	28.59	30.12
17	36.13	31.56	32.01	29.09	25.14	24.63	27.38	28.41	31.42	29.81	28.58	30.23
18	35.89	31.53	31.94	28.86	25.18	24.57	27.48	28.47	31.43	29.60	28.57	30.35
19	35.76	31.53	31.94	28.53	25.22	24.62	27.52	28.53	31.43	29.30	28.61	30.48
20	35.68	31.53	32.00	28.15	25.30	24.72	27.52	28.61	31.48	29.03	28.70	30.62
21	35.59	31.56	31.98	27.82	25.36	24.81	27.55	28.66	31.53	28.83	28.86	30.78
22	35.41	31.57	31.88	27.58	25.40	24.88	27.63	28.70	31.60	28.66	28.97	30.89
23	34.98	31.54	31.73	27.40	25.43	24.95	27.71	28.76	31.69	28.58	29.08	31.00
24	34.23	31.53	31.66	27.17	25.56	25.03	27.83	28.84	31.79	28.55	29.05	31.07
25	33.60	31.59	31.69	26.93	25.62	25.13	27.99	28.92	31.82	28.58	29.00	31.07
26	33.21	31.66	31.66	26.67	25.70	25.23	28.11	29.01	31.79	28.66	28.86	31.11
27	32.95	31.70	31.62	26.44	25.83	25.31	28.18	29.11	31.79	28.77	28.65	31.23
28	32.72	31.71	31.57	26.23	25.94	25.36	28.24	29.23	31.75	28.88	28.46	31.40
29	32.56	31.74	31.51	26.15	---	25.36	28.28	29.31	31.48	28.94	28.32	31.55
30	32.45	31.85	31.43	25.80	---	25.44	28.34	29.40	31.19	28.97	28.21	31.64
31	32.35	---	31.38	25.34	---	25.60	---	29.51	---	29.02	28.16	---

WTR YR 1991

MEAN 29.54

HIGHEST 24.26 MAR 7

LOWEST 39.46 OCT 9

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. Water levels for periods of missing record, May 9-24, June 4-23, July 5-21, and September 15-22, 24, 30, were estimated.

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, 31.34 ft below land-surface datum, Nov. 14, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.92	32.17	31.87	31.17	30.92	30.07	30.00	29.42	28.89	26.76	28.61	29.22
2	31.82	32.22	31.77	31.15	30.93	30.00	29.95	29.59	28.91	26.77	28.71	29.21
3	32.10	32.19	31.68	31.14	30.78	29.61	29.93	29.60	28.14	27.13	28.74	29.19
4	32.25	32.10	31.53	31.13	30.68	29.73	29.86	29.36	28.18	27.50	28.80	29.11
5	32.26	31.93	31.63	31.18	30.59	29.90	29.81	29.25	27.81	27.59	28.80	28.91
6	32.29	32.02	31.55	31.19	30.55	29.85	29.78	29.15	27.46	27.67	28.92	29.05
7	32.31	32.13	31.39	31.20	30.43	29.83	29.84	29.16	27.32	27.55	28.98	29.20
8	32.30	32.09	31.43	31.15	30.29	29.95	29.78	29.15	27.26	27.64	29.02	29.14
9	32.27	31.89	31.59	31.15	30.32	29.89	29.49	28.98	27.15	27.66	28.93	29.13
10	31.98	31.78	31.48	31.13	30.30	29.89	29.63	28.96	26.96	27.67	28.92	29.04
11	31.82	32.15	31.37	30.86	30.23	30.01	29.61	28.91	26.75	27.77	29.05	28.90
12	31.87	31.87	31.31	30.71	30.04	29.91	29.64	28.65	26.56	27.82	29.18	28.82
13	31.96	32.03	31.41	30.87	29.78	29.58	29.58	28.68	26.57	27.85	29.00	28.99
14	32.04	32.34	31.37	30.69	29.62	29.55	29.58	28.77	26.54	28.00	29.30	29.17
15	32.01	32.20	31.24	30.71	29.79	29.84	29.71	28.77	26.28	28.17	29.50	29.30
16	32.19	32.08	31.25	30.65	30.33	29.91	29.60	28.89	25.92	28.16	29.58	29.29
17	32.28	32.00	31.24	30.85	30.19	29.82	29.75	28.89	25.87	28.24	29.55	29.28
18	32.11	31.98	30.98	30.81	30.06	29.41	29.71	28.71	25.71	28.32	29.51	29.29
19	32.12	31.89	31.21	30.65	30.07	29.60	29.53	28.62	25.67	28.37	29.54	29.32
20	32.21	31.77	31.55	30.46	30.18	29.80	29.61	28.72	25.40	28.20	29.55	29.31
21	32.10	31.89	31.67	30.50	30.29	29.75	29.68	28.72	25.11	28.18	29.47	29.21
22	31.90	31.87	31.18	30.64	30.18	29.75	29.77	28.75	24.89	28.34	29.49	29.26
23	31.75	31.70	31.22	30.79	30.21	29.70	29.68	28.83	24.73	28.43	29.43	29.33
24	31.89	31.74	31.50	30.80	30.33	29.69	29.92	28.81	24.57	28.32	29.51	29.21
25	31.87	31.65	31.63	30.69	30.27	29.72	30.07	28.59	24.53	28.39	29.50	29.13
26	32.01	31.79	31.72	30.74	30.18	29.85	29.98	28.70	24.60	28.38	29.48	29.18
27	32.24	31.48	31.67	30.59	30.26	29.77	29.86	28.80	25.30	28.33	29.29	29.18
28	32.13	31.72	31.56	30.43	30.20	29.66	29.78	28.70	26.40	28.30	29.23	29.20
29	32.06	31.89	31.49	30.52	—	29.48	29.82	28.93	26.83	28.35	29.32	29.24
30	32.28	31.97	31.28	30.43	—	29.58	29.53	28.82	26.82	28.43	29.27	29.25
31	32.28	—	30.69	30.63	—	29.86	—	28.84	—	28.55	29.29	—

WTR YR 1991

MEAN 29.82

HIGHEST 24.53 JUNE 25

LOWEST 32.34 NOV 14

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, April 18-22, 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, 29.43 ft below land-surface datum, Oct. 3, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.32	29.20	28.80	28.21	27.59	27.13	27.04	26.36	25.60	24.61	25.10	25.47
2	29.39	29.20	28.68	28.18	27.58	26.86	27.03	26.34	25.55	24.63	25.10	25.54
3	29.43	29.18	28.53	28.14	27.53	26.68	27.07	26.34	25.52	24.66	25.14	25.50
4	29.37	29.09	28.55	28.16	27.49	26.67	27.06	26.35	25.47	24.74	25.11	25.43
5	29.37	28.95	28.63	28.16	27.44	26.82	26.98	26.33	25.26	24.81	25.14	25.42
6	29.36	29.01	28.52	28.12	27.38	26.78	26.89	26.33	25.57	24.88	25.22	25.48
7	29.39	29.08	28.42	28.00	27.28	26.72	26.84	26.40	25.58	24.86	25.28	25.50
8	29.40	29.12	28.41	28.04	27.18	26.82	26.80	26.42	25.51	24.92	25.23	25.53
9	29.33	28.93	28.47	28.12	27.18	26.89	26.74	26.36	25.52	24.89	25.20	25.53
10	29.15	28.90	28.48	28.07	27.17	26.96	27.18	26.34	25.46	24.88	25.22	25.52
11	29.06	29.11	28.44	27.86	27.25	27.00	26.78	26.32	25.38	24.89	25.28	25.46
12	28.98	29.12	28.44	27.70	27.31	26.86	26.84	26.20	25.30	24.95	25.28	25.44
13	29.01	29.12	28.38	27.86	27.13	26.70	26.78	26.08	25.20	24.93	25.27	25.45
14	29.07	29.20	28.44	27.90	26.87	26.67	26.69	25.99	25.17	25.00	25.28	25.46
15	29.16	29.18	28.42	27.76	27.11	26.86	26.63	25.97	25.04	25.10	25.32	25.52
16	29.22	29.04	28.36	27.63	27.38	27.03	26.62	25.99	24.93	25.13	25.38	25.59
17	29.22	28.91	28.32	27.79	27.40	26.90	26.61	25.98	24.95	25.08	25.37	25.58
18	29.10	28.94	28.14	27.87	27.35	26.71	26.54	26.00	24.87	25.07	25.34	25.59
19	29.12	28.92	28.16	27.64	27.30	26.70	26.22	26.04	24.85	25.10	25.35	25.59
20	29.14	28.92	28.30	27.48	27.27	26.82	26.26	26.02	24.84	25.13	25.40	25.58
21	29.11	28.93	28.30	27.54	27.23	26.85	26.11	25.97	24.73	25.14	25.48	25.66
22	29.10	28.84	28.22	27.62	27.12	26.86	26.32	25.94	24.70	25.06	25.50	25.70
23	29.03	28.70	28.11	27.70	27.09	26.84	26.40	25.94	24.68	25.04	25.53	25.64
24	29.02	28.70	28.18	27.60	27.17	26.82	26.47	25.92	24.73	25.08	25.56	25.62
25	28.96	28.74	28.34	27.60	27.10	26.92	26.43	25.86	24.72	25.07	25.58	25.47
26	29.12	28.80	28.39	27.60	27.09	26.98	26.54	25.82	24.66	25.17	25.57	25.47
27	29.28	28.78	28.35	27.52	27.22	26.92	26.48	25.84	24.62	25.18	25.56	25.57
28	29.22	28.72	28.32	27.40	27.24	26.82	26.42	25.87	24.64	25.17	25.56	25.68
29	29.26	28.76	28.28	27.42	---	26.68	26.43	25.79	24.60	25.16	25.52	25.75
30	29.30	28.86	28.19	27.32	---	26.76	26.45	25.70	24.59	25.15	25.47	25.72
31	29.23	---	28.18	27.42	---	26.97	---	25.67	---	25.14	25.42	---

WTR YR 1991

MEAN 26.84

HIGHEST 24.59 JUNE 30

LOWEST 29.43 OCT 3

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. Water levels for period of missing record, August 9-23, were estimated.

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, 59.00 ft below land-surface datum, Oct. 8, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58.87	58.96	58.02	58.06	57.70	57.30	56.82	54.67	55.30	54.86	55.13	55.31
2	58.91	58.96	57.96	58.04	57.70	57.07	56.88	54.59	55.25	54.85	55.16	55.39
3	58.97	58.94	57.87	58.00	57.61	56.66	56.89	54.55	55.24	54.86	55.19	55.37
4	58.97	58.86	57.85	58.00	57.56	56.76	56.89	54.52	55.23	54.90	55.18	55.30
5	58.96	58.68	57.99	58.03	57.47	56.98	56.78	54.51	55.17	54.96	55.19	55.28
6	58.97	58.68	57.99	58.03	57.41	56.90	56.70	54.53	55.15	54.99	55.26	55.34
7	58.99	58.68	57.99	57.97	57.25	56.82	56.67	54.63	55.15	55.01	55.32	55.35
8	59.00	58.57	57.99	57.95	57.17	56.87	56.62	54.72	55.12	55.01	55.26	55.36
9	58.99	58.21	58.01	58.02	57.17	56.94	56.54	54.73	55.13	54.98	55.23	55.37
10	58.94	57.92	58.02	58.04	57.15	56.98	56.52	54.79	55.13	54.98	55.24	55.34
11	58.92	58.01	58.02	57.77	57.19	57.01	56.63	54.86	55.14	55.01	55.30	55.29
12	58.88	57.87	58.02	57.59	57.29	56.88	56.66	54.86	55.12	55.05	55.29	55.25
13	58.87	57.71	58.02	57.74	57.10	56.63	56.58	54.81	55.11	55.06	55.28	55.25
14	58.87	57.72	58.03	57.86	56.81	56.62	56.50	54.77	55.10	55.09	55.29	55.25
15	58.88	57.70	58.09	57.73	56.99	56.81	56.45	54.82	55.09	55.16	55.32	55.29
16	58.93	57.54	58.09	57.57	57.36	56.99	56.44	54.90	55.10	55.21	55.38	55.31
17	58.96	57.40	58.09	57.75	57.38	56.89	56.34	54.97	55.09	55.19	55.37	55.29
18	58.95	57.45	58.07	57.85	57.35	56.64	56.24	55.03	55.06	55.19	55.33	55.27
19	58.93	57.47	58.05	57.68	57.33	56.69	56.19	55.07	55.07	55.20	55.34	55.27
20	58.93	57.54	58.05	57.45	57.33	56.79	56.12	55.11	55.08	55.24	55.38	55.27
21	58.94	57.60	58.02	57.51	57.33	56.81	56.07	55.10	55.06	55.24	55.46	55.33
22	58.93	57.58	57.94	57.63	57.22	56.80	56.09	55.10	55.05	55.21	55.48	55.37
23	58.92	57.51	57.86	57.71	57.16	56.76	56.02	55.12	55.04	55.17	55.50	55.31
24	58.92	57.57	57.89	57.62	57.29	56.72	56.00	55.14	55.03	55.15	55.53	55.19
25	58.91	57.69	58.04	57.62	57.23	56.77	55.94	55.19	55.03	55.19	55.50	55.00
26	58.86	57.79	58.09	57.63	57.20	56.81	55.73	55.17	55.04	55.23	55.47	54.98
27	58.96	57.83	58.10	57.54	57.35	56.74	55.45	55.18	54.98	55.21	55.44	55.11
28	58.96	57.79	58.08	57.39	57.39	56.40	55.22	55.19	54.99	55.20	55.43	55.23
29	58.96	57.80	58.06	57.45	—	56.54	55.04	55.26	54.92	55.18	55.39	55.30
30	58.99	58.00	58.00	57.36	—	56.74	54.88	55.26	54.87	55.17	55.31	55.27
31	58.97	—	57.99	57.46	—	56.81	—	55.29	—	55.15	55.26	—

WTR YR 1991

MEAN 56.56

HIGHEST 54.51 MAY 5

LOWEST 59.00 OCT 8

GROUND-WATER LEVELS

LOWNDES COUNTY

304949083165301 Local number, 19E009.

LOCATION.—Lat 30°49'51", long 83°16'58" (revised), 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.

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 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	149.61	148.55	148.09	142.56	130.15	128.17	124.87	125.97	127.16	127.89	125.15	126.12
2	150.18	148.73	148.07	142.46	130.42	128.21	124.86	126.11	126.97	127.94	125.58	125.67
3	150.08	148.80	147.90	142.30	130.09	127.31	125.32	126.73	126.32	128.59	125.25	125.93
4	149.78	148.25	148.23	142.15	129.87	127.39	125.15	127.37	126.99	127.86	124.84	126.02
5	150.32	148.25	148.07	142.00	129.46	126.65	125.13	127.01	126.87	128.37	123.97	126.22
6	150.36	148.73	147.94	141.82	128.82	125.34	125.24	126.35	126.65	128.49	124.03	126.60
7	149.78	148.49	147.41	141.56	128.63	124.76	125.62	125.94	126.79	127.92	123.91	127.31
8	149.80	148.77	147.43	141.05	128.13	124.82	125.22	126.16	127.22	127.91	123.99	127.30
9	150.53	148.63	146.96	140.36	128.13	125.40	125.40	126.20	127.02	127.63	124.76	127.01
10	149.37	148.42	147.00	139.89	128.25	125.13	125.52	126.24	127.01	127.53	124.37	127.33
11	149.29	148.19	147.46	139.24	128.01	124.67	125.50	126.70	128.40	128.03	124.67	127.53
12	147.74	148.42	147.19	138.60	128.08	124.21	125.99	126.48	128.07	128.38	124.08	127.81
13	146.06	148.78	147.17	138.22	128.02	123.62	126.48	126.14	128.37	128.33	124.60	128.68
14	146.11	148.48	147.24	137.75	127.72	123.83	126.71	126.10	129.30	127.51	124.64	129.03
15	146.81	149.33	146.98	137.46	127.64	124.29	125.93	126.07	129.17	127.70	124.42	128.97
16	147.67	149.02	146.64	136.82	127.78	124.77	125.90	126.12	128.66	127.34	125.08	128.52
17	148.04	148.78	146.24	136.57	127.89	124.98	126.03	126.81	128.30	126.86	125.00	128.82
18	148.08	147.96	145.89	136.49	128.35	124.72	125.57	127.17	128.83	126.58	124.88	128.92
19	148.01	147.26	146.40	135.87	127.62	124.21	126.32	126.75	128.83	127.03	124.47	129.11
20	147.52	147.67	145.65	135.34	127.67	124.31	126.78	126.21	128.63	126.91	124.50	129.80
21	147.24	147.60	144.62	134.97	128.02	124.21	126.64	126.26	129.12	126.62	124.66	130.35
22	147.14	147.29	144.00	134.24	128.57	124.77	125.86	126.55	129.16	126.07	124.79	130.07
23	147.44	147.05	142.72	134.08	128.40	124.97	125.79	126.89	128.89	125.96	125.57	130.46
24	147.41	147.43	142.43	133.56	128.83	124.79	125.91	127.21	128.60	125.78	125.65	131.12
25	147.58	147.35	142.37	133.25	129.30	125.00	125.96	127.26	128.46	125.92	125.43	131.03
26	147.74	147.64	142.72	132.76	129.08	124.70	126.44	126.62	128.19	126.10	125.26	131.17
27	148.09	148.18	142.61	132.90	129.25	125.35	126.63	125.81	128.24	126.51	125.52	131.30
28	147.52	148.07	142.56	132.42	129.13	124.76	126.49	125.91	128.33	126.34	125.60	132.10
29	147.69	148.28	142.33	131.52	—	124.88	126.19	126.81	128.31	125.34	126.27	132.65
30	148.52	148.27	142.11	131.17	—	125.30	126.37	127.29	128.11	125.74	126.56	132.17
31	148.60	—	142.25	130.92	—	125.13	—	127.34	—	125.66	126.66	—

WTR YR 1991

MEAN 132.91

HIGHEST 123.62 MAR 13

LOWEST 150.53 OCT 9

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, February 7-21, and August 27 to September 3, 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, 26.88 ft below land-surface datum, Nov. 14, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.32	26.55	26.49	26.23	25.89	25.83	25.55	25.29	24.41	23.63	23.89	23.83
2	26.44	26.52	26.43	26.39	25.88	25.62	25.75	25.36	24.32	23.78	23.95	23.83
3	26.53	26.52	26.30	26.53	25.98	25.17	25.77	25.35	24.42	23.87	23.97	23.83
4	26.69	26.48	26.48	26.41	26.01	25.41	25.79	25.26	24.60	23.94	23.89	23.78
5	26.49	26.37	26.57	26.41	26.25	25.52	25.87	25.07	24.36	23.99	23.85	23.65
6	26.43	26.47	26.41	26.31	26.15	25.40	25.83	25.23	24.15	24.04	23.89	23.72
7	26.54	26.58	26.25	26.30	26.04	25.41	25.56	25.42	24.15	23.88	23.89	23.75
8	26.55	26.75	26.22	26.21	25.90	25.35	25.58	25.35	24.22	23.94	23.83	23.66
9	26.45	26.30	26.39	26.26	25.94	25.30	25.49	25.17	24.25	23.92	23.74	23.67
10	26.20	26.49	26.39	26.18	25.93	25.53	25.28	25.14	24.20	23.89	23.81	23.71
11	26.24	26.71	26.35	25.90	25.86	25.63	25.32	25.07	24.12	23.96	23.82	23.76
12	26.19	26.70	26.32	25.90	25.68	25.58	25.47	24.80	24.07	23.97	23.81	23.81
13	26.28	26.73	26.38	26.07	25.43	25.42	25.22	24.82	24.22	23.97	23.85	23.77
14	26.35	26.88	26.42	26.04	25.27	25.34	25.16	24.90	24.32	24.08	23.89	23.82
15	26.48	26.74	26.32	25.86	25.45	25.40	25.11	24.89	24.20	24.21	23.96	23.92
16	26.55	26.63	26.35	25.89	26.00	25.51	25.35	25.00	23.98	24.17	23.97	23.88
17	26.55	26.53	26.30	26.34	25.87	25.30	25.38	24.98	24.06	24.21	23.88	23.85
18	26.53	26.47	26.20	26.46	25.74	25.21	25.31	24.79	24.04	24.25	23.80	23.83
19	26.57	26.53	26.44	26.02	25.76	25.48	25.20	24.69	24.14	24.27	23.89	23.83
20	26.59	26.59	26.33	25.87	25.88	25.59	25.04	24.78	24.00	24.06	23.97	23.79
21	26.58	26.56	26.44	25.99	25.99	25.67	24.89	24.77	23.85	24.01	24.01	23.67
22	26.56	26.49	26.33	25.98	25.89	25.54	25.11	24.79	23.77	24.13	23.99	23.69
23	26.57	26.45	26.24	25.96	25.71	25.40	25.19	24.85	23.74	24.22	23.95	23.73
24	26.52	26.52	26.47	25.81	25.61	25.37	25.12	24.82	23.72	24.21	24.03	23.68
25	26.52	26.58	26.42	25.78	25.60	25.49	25.10	24.59	23.74	24.29	24.02	23.62
26	26.56	26.63	26.35	25.78	25.80	25.66	25.07	24.50	23.81	24.28	23.99	23.69
27	26.62	26.59	26.42	25.74	25.82	25.61	24.95	24.60	23.88	23.98	23.82	23.72
28	26.58	26.53	26.59	25.77	25.94	25.59	24.98	24.77	23.85	23.89	23.77	23.76
29	26.57	26.57	26.35	25.69	—	25.37	25.17	24.86	23.60	24.03	23.88	23.82
30	26.59	26.53	26.26	25.57	—	25.35	25.31	24.73	23.50	24.23	23.84	23.85
31	26.57	—	26.38	25.81	—	25.32	—	24.65	—	24.10	23.88	—

WTR YR 1991

MEAN 25.23

HIGHEST 23.50 JUNE 30

LOWEST 26.88 NOV 14

GROUND-WATER LEVELS

MILLER COUNTY

310651084404501 Local number, 08G001.

LOCATION--Lat 31°06'51", long 84°40'44" (revised), 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--None.

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 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40.19	41.26	43.03	41.74	13.91	24.46	16.69	19.86	21.40	19.12	16.05	19.09
2	40.22	41.26	43.16	41.76	13.81	23.50	16.76	19.75	21.89	18.95	16.25	19.46
3	40.26	41.26	43.16	41.78	13.98	19.64	16.90	19.45	21.99	18.85	16.45	19.87
4	40.33	41.26	43.04	41.80	14.25	15.87	17.02	19.35	20.19	18.84	16.62	19.94
5	40.37	41.34	42.84	41.82	14.53	14.85	17.14	19.35	19.96	18.90	16.82	20.20
6	40.40	41.74	42.63	41.83	14.84	14.59	17.27	19.39	21.32	18.99	17.04	20.76
7	40.44	42.11	42.47	41.83	15.16	14.63	17.41	19.45	21.88	19.03	17.24	21.41
8	40.46	42.39	42.35	41.85	15.49	14.75	17.55	19.49	21.76	18.93	17.42	21.14
9	40.49	42.61	42.25	41.87	15.86	14.90	17.58	19.70	23.19	18.79	17.63	21.19
10	40.52	42.72	42.15	41.89	16.22	15.09	17.45	19.70	23.86	18.69	17.87	21.30
11	40.55	42.61	42.05	41.90	16.65	15.22	17.08	18.30	24.35	18.63	18.03	21.44
12	40.57	42.40	41.95	41.90	17.06	15.34	16.76	17.41	24.81	18.62	18.06	21.61
13	40.79	42.18	41.85	41.90	17.38	15.45	16.58	16.74	25.27	18.65	18.03	21.81
14	41.39	42.01	41.77	41.87	17.80	15.67	16.51	16.36	25.20	18.75	17.97	22.06
15	41.77	41.89	41.70	41.79	18.39	15.89	16.55	16.22	25.46	18.89	17.89	22.33
16	42.04	41.79	41.64	41.72	18.97	16.08	16.64	16.22	26.18	18.94	17.76	22.58
17	42.14	41.72	41.59	41.64	19.39	16.18	16.73	16.28	26.53	18.42	17.63	22.80
18	42.05	41.67	41.54	41.48	19.87	16.20	16.86	16.40	26.56	16.37	17.54	23.02
19	42.11	41.64	41.55	41.22	20.37	16.00	17.03	16.56	22.44	15.38	17.52	23.25
20	42.12	41.61	41.56	40.56	20.89	15.73	17.27	16.75	20.22	14.89	17.54	23.42
21	41.95	41.60	41.56	38.63	21.38	15.78	17.61	17.48	19.61	14.57	17.60	23.59
22	41.77	41.58	41.56	36.28	21.76	16.18	17.75	18.73	19.63	14.47	17.65	23.77
23	41.64	41.57	41.56	34.99	22.22	16.40	17.67	19.10	20.21	14.49	17.75	23.93
24	41.53	41.58	41.60	34.49	22.71	15.93	17.89	19.34	20.41	14.60	17.87	24.05
25	41.44	41.60	41.63	33.14	23.06	15.93	18.08	18.84	20.60	14.76	17.98	24.14
26	41.39	41.62	41.65	29.42	23.48	16.01	18.27	18.67	20.68	14.96	18.10	24.40
27	41.35	41.74	41.65	26.36	23.93	16.10	18.43	18.72	20.50	15.13	18.24	24.65
28	41.33	42.19	41.66	25.57	24.25	16.19	18.62	18.72	20.10	15.29	18.39	25.19
29	41.31	42.59	41.67	25.66	---	16.27	19.34	18.66	19.70	15.48	18.53	26.08
30	41.30	42.86	41.68	21.06	---	16.49	19.98	19.08	19.37	15.67	18.73	26.67
31	41.28	---	41.71	15.11	---	16.59	---	20.59	---	15.86	18.91	---

WTR YR 1991

MEAN 26.10

HIGHEST 13.81 FEB 2

LOWEST 43.16 DEC 2, 3

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 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156.58	154.18	151.74	151.76	151.33	150.52	150.64	149.07	150.74	152.18	150.85	151.82
2	155.83	154.13	152.25	151.48	151.04	149.72	150.96	150.18	150.95	151.77	151.01	150.98
3	156.41	154.44	153.07	151.77	151.24	150.66	150.70	150.53	150.22	152.00	151.10	151.58
4	156.31	153.56	153.41	151.35	150.71	150.61	150.80	150.75	150.62	151.52	151.16	151.96
5	155.84	153.78	153.52	151.81	150.63	150.38	150.90	150.03	150.90	151.93	150.84	151.46
6	156.16	153.31	153.11	151.43	150.74	150.59	150.68	149.25	150.64	151.40	151.11	151.83
7	156.07	153.41	152.13	151.46	150.19	149.78	150.78	149.52	150.20	151.60	151.25	151.78
8	155.72	153.27	152.36	151.60	150.74	149.88	150.16	150.58	150.46	151.46	151.13	152.19
9	156.05	153.16	152.55	151.51	150.86	150.50	150.28	150.53	150.81	151.13	150.94	152.41
10	155.74	153.17	152.50	151.30	150.80	150.66	150.64	149.78	151.68	151.35	151.01	152.08
11	155.14	153.44	153.02	151.32	153.58	150.41	150.87	149.09	151.98	151.56	151.07	152.81
12	155.25	153.28	152.73	151.15	150.66	149.38	150.58	149.12	151.61	151.32	151.31	152.43
13	155.18	153.29	153.36	151.24	150.17	148.73	150.73	149.80	152.90	151.47	151.27	152.21
14	155.33	153.66	152.24	151.08	150.63	149.07	150.61	150.08	152.65	151.23	150.96	152.70
15	155.17	153.61	152.40	151.01	150.66	150.53	150.83	150.40	152.75	151.26	151.23	152.77
16	155.73	153.31	152.34	151.25	151.89	150.74	149.89	150.57	152.64	150.82	150.78	152.99
17	155.59	153.05	151.83	151.10	152.67	150.58	150.10	150.12	153.47	150.89	150.44	152.50
18	154.77	152.72	151.90	151.38	152.61	150.68	150.60	149.44	153.04	151.25	150.42	152.68
19	155.05	152.71	151.89	150.71	153.25	150.58	150.79	149.00	153.61	151.41	151.26	152.69
20	155.15	153.27	151.70	151.06	150.11	150.10	150.61	149.81	153.78	151.07	151.68	152.53
21	154.71	153.20	151.82	151.03	149.97	150.49	150.71	150.05	153.78	151.22	151.89	152.63
22	155.49	153.87	152.16	151.20	150.66	149.88	150.03	151.15	153.31	151.29	152.01	152.21
23	156.39	153.39	151.93	151.47	150.88	150.62	148.86	151.73	152.73	150.92	151.81	152.54
24	154.68	152.01	151.90	150.98	150.68	150.64	149.13	150.98	152.42	151.42	151.82	152.75
25	154.19	154.35	152.24	151.36	149.92	150.84	149.54	150.19	152.41	151.10	151.18	151.74
26	154.69	151.73	152.14	151.36	150.89	150.46	150.14	150.83	152.47	150.84	151.00	151.97
27	153.63	152.64	152.26	151.30	149.85	150.93	150.04	150.91	151.79	151.10	152.06	152.16
28	153.87	153.00	152.33	150.88	150.75	149.88	149.52	150.14	152.32	151.12	151.64	152.29
29	154.58	152.65	151.94	150.89	---	148.94	149.64	150.76	152.36	150.82	151.43	152.32
30	154.91	151.80	151.69	150.96	---	149.64	149.39	149.97	151.90	151.24	151.21	152.20
31	153.94	---	151.91	150.48	---	150.68	---	150.49	---	151.29	151.38	---

WTR YR 1991

MEAN 151.72

HIGHEST 148.73 MAR 13

LOWEST 156.58 OCT 1

GROUND-WATER LEVELS

SPALDING COUNTY

331507084171801 Local number, 11AA01.

LOCATION--Lat 33°15'54", long 84°16'56" (revised), 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 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.06	20.89	21.41	21.40	18.97	17.04	15.80	15.14	13.67	14.31	14.62	15.38
2	20.11	20.91	21.42	21.38	18.80	16.79	15.73	15.10	13.66	14.31	14.64	15.47
3	20.14	20.92	21.42	21.37	18.64	16.50	15.72	15.03	13.65	14.33	14.69	15.49
4	20.17	20.93	21.45	21.37	18.48	16.41	15.70	14.98	13.67	14.37	14.70	15.51
5	20.21	20.94	21.44	21.37	18.36	16.25	15.65	14.92	13.75	14.38	14.75	15.57
6	20.25	20.98	21.42	21.36	18.25	16.01	15.61	14.85	13.83	14.30	14.82	15.66
7	20.29	21.01	21.43	21.35	18.15	15.95	15.59	14.79	13.87	14.25	14.86	15.71
8	20.33	21.03	21.44	21.35	18.08	15.89	15.57	14.69	13.88	14.20	14.86	15.78
9	20.35	21.03	21.46	21.34	18.03	15.84	15.55	14.61	13.92	14.16	14.88	15.84
10	20.38	21.04	21.46	21.32	17.97	15.81	15.55	14.55	13.95	14.16	14.94	15.88
11	20.43	21.07	21.47	21.28	17.96	15.74	15.59	14.47	13.97	14.18	15.01	15.92
12	20.46	21.08	21.49	21.19	17.93	15.66	15.60	14.24	14.00	14.19	15.03	15.99
13	20.50	21.09	21.49	21.11	17.83	15.55	15.55	14.03	14.07	14.19	15.06	16.06
14	20.54	21.11	21.49	21.04	17.78	15.65	15.51	13.91	14.13	14.23	15.05	16.13
15	20.57	21.13	21.50	20.93	17.86	15.73	15.50	13.87	14.17	14.31	14.96	16.22
16	20.61	21.13	21.50	20.82	17.94	15.77	15.53	13.85	14.21	14.36	14.88	16.28
17	20.64	21.14	21.51	20.73	17.87	15.69	15.51	13.83	14.27	14.34	14.81	16.33
18	20.65	21.16	21.51	20.63	17.85	15.61	15.48	13.82	14.34	14.33	14.75	16.39
19	20.69	21.19	21.53	20.51	17.83	15.70	15.47	13.82	14.42	14.35	14.75	16.47
20	20.73	21.21	21.55	20.36	17.85	15.73	15.44	13.79	14.46	14.40	14.80	16.54
21	20.75	21.23	21.54	20.24	17.84	15.74	15.40	13.75	14.49	14.42	14.86	16.62
22	20.75	21.24	21.52	20.13	17.77	15.74	15.38	13.74	14.53	14.44	14.89	16.69
23	20.77	21.25	21.51	20.04	17.63	15.76	15.38	13.74	14.60	14.46	14.96	16.73
24	20.77	21.27	21.51	19.92	17.53	15.80	15.42	13.73	14.68	14.49	15.02	16.76
25	20.78	21.31	21.51	19.81	17.38	15.85	15.42	13.73	14.71	14.56	15.06	16.75
26	20.79	21.32	21.49	19.67	17.30	15.87	15.41	13.74	14.68	14.58	15.11	16.82
27	20.83	21.33	21.47	19.53	17.24	15.85	15.36	13.80	14.56	14.53	15.15	16.88
28	20.84	21.34	21.44	19.42	17.16	15.84	15.35	13.80	14.48	14.52	15.19	16.95
29	20.84	21.36	21.42	19.34	---	15.76	15.33	13.73	14.38	14.51	15.23	16.99
30	20.85	21.40	21.40	19.21	---	15.90	15.26	13.66	14.31	14.54	15.24	17.01
31	20.87	---	21.40	19.10	---	15.87	---	13.67	---	14.59	15.29	---

WTR YR 1991

MEAN 17.25

HIGHEST 13.65 JUNE 3

LOWEST 21.55 DEC 20

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, 64.05 ft below land-surface datum, Oct. 7-8, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63.87	63.76	62.89	63.10	62.63	62.31	61.63	56.96	59.71	59.98	60.01	59.78
2	63.94	63.77	62.82	63.08	62.57	62.04	61.63	57.29	59.71	59.97	60.03	59.87
3	63.99	63.75	62.73	63.05	62.50	61.61	61.66	57.45	59.71	59.98	60.06	59.85
4	63.94	63.62	62.79	63.07	62.45	61.71	61.65	57.59	59.69	60.03	60.00	59.78
5	63.97	63.35	62.95	63.08	62.34	61.86	61.55	57.91	59.76	60.06	59.97	59.74
6	64.00	62.78	62.88	63.05	62.23	61.66	61.43	58.21	59.88	60.06	60.03	59.80
7	64.05	62.05	62.81	62.93	62.04	61.56	61.35	58.51	59.96	60.10	60.08	59.84
8	64.05	61.37	62.86	62.96	61.95	61.58	61.26	58.73	59.99	60.09	60.05	59.87
9	63.96	60.63	63.04	63.07	61.95	61.63	61.13	58.84	60.02	60.06	60.03	59.91
10	63.72	60.23	63.02	63.02	61.96	61.67	61.10	59.03	60.00	60.05	60.08	59.91
11	63.64	60.33	63.01	62.78	62.06	61.67	61.16	59.19	59.99	60.08	60.17	59.85
12	63.59	60.27	63.01	62.67	62.18	61.53	61.22	59.26	59.98	60.12	60.16	59.81
13	63.61	60.49	62.95	62.84	61.94	61.26	61.17	59.28	60.01	60.13	60.12	59.80
14	63.64	60.80	63.02	62.92	61.51	61.26	61.08	59.32	60.03	60.16	60.05	59.80
15	63.73	60.96	63.04	62.78	61.76	61.50	61.02	59.40	59.98	60.20	60.06	59.82
16	63.81	61.05	62.98	62.64	62.22	61.68	60.99	59.51	59.97	60.26	60.06	59.84
17	63.82	61.16	62.91	62.81	62.30	61.63	60.93	59.59	60.00	60.19	60.02	59.82
18	63.69	61.42	62.68	62.89	62.31	61.41	60.79	59.69	60.06	60.14	59.93	59.81
19	63.70	61.62	62.70	62.71	62.31	61.49	60.68	59.75	60.09	60.14	59.91	59.77
20	63.72	61.79	62.86	62.52	62.35	61.62	60.61	59.82	60.09	60.13	59.91	59.75
21	63.68	61.98	62.89	62.58	62.36	61.64	60.55	59.84	60.02	60.09	59.99	59.82
22	63.61	62.07	62.84	62.71	62.29	61.59	60.44	59.84	60.00	60.07	59.98	59.85
23	63.59	62.07	62.78	62.77	62.25	61.54	59.72	59.83	60.02	60.07	60.00	59.78
24	63.64	62.19	62.84	62.66	62.37	61.48	58.98	59.83	60.12	60.04	60.04	59.62
25	63.59	62.34	63.01	62.69	62.30	61.51	58.29	59.79	60.15	60.08	60.01	59.42
26	63.71	62.47	63.10	62.68	62.27	61.55	57.63	59.77	60.11	60.11	59.97	59.44
27	63.90	62.54	63.11	62.59	62.41	61.48	57.08	59.83	60.12	60.09	59.90	59.55
28	63.85	62.59	63.09	62.43	62.44	61.39	56.79	59.88	60.13	60.08	59.87	59.70
29	63.83	62.68	63.07	62.44	—	61.19	56.59	59.82	60.06	60.03	59.85	59.76
30	63.81	62.90	62.99	62.31	—	61.33	56.66	59.73	60.00	60.02	59.74	59.71
31	63.77	—	62.99	62.43	—	61.54	—	59.73	—	60.02	59.70	—

WTR YR 1991

MEAN 61.20

HIGHEST 56.59 APR 29

LOWEST 64.05 OCT 7, 8

GROUND-WATER LEVELS

WAYNE COUNTY

313701081543501 Local number, 30L003.

LOCATION--Lat 31°37'01", long 81°54'34" (revised), 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.

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, 88.91 ft below land-surface datum, Oct. 7, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88.65	88.40	87.61	87.79	87.10	86.65	85.80	79.89	83.85	84.36	84.15	83.72
2	88.78	88.40	87.53	87.77	87.06	86.30	85.81	80.76	83.88	84.41	84.14	83.79
3	88.76	88.36	87.49	87.70	87.02	85.92	85.85	80.98	83.90	84.48	84.14	83.75
4	88.73	88.16	87.55	87.68	86.96	85.99	85.85	81.28	83.88	84.51	84.08	83.69
5	88.78	87.38	87.62	87.68	86.80	86.10	85.76	81.89	83.92	84.49	84.11	83.57
6	88.86	86.09	87.59	87.68	86.62	85.96	85.62	82.30	84.02	84.54	84.18	83.66
7	88.91	84.90	87.55	87.53	86.44	85.89	85.50	82.62	84.14	84.58	84.25	83.70
8	88.89	83.91	87.61	87.56	86.30	85.96	85.41	82.86	84.18	84.58	84.26	83.76
9	88.77	83.05	87.72	87.70	86.32	86.06	85.33	83.06	84.22	84.64	84.23	83.84
10	88.50	82.70	87.71	87.60	86.42	85.98	85.27	83.32	84.21	84.56	84.28	83.89
11	88.35	82.92	87.71	87.44	86.54	85.86	85.29	83.56	84.29	84.62	84.29	83.81
12	88.30	83.28	87.65	87.34	86.60	85.74	85.33	83.63	84.34	84.66	84.16	83.75
13	88.28	83.95	87.57	87.53	86.14	85.42	85.34	83.65	84.41	84.65	84.04	83.77
14	88.22	84.43	87.66	87.59	85.62	85.43	85.22	83.66	84.38	84.60	83.87	83.74
15	88.38	84.78	87.68	87.46	86.12	85.64	85.12	83.63	84.30	84.62	83.97	83.76
16	88.50	85.21	87.58	87.27	86.58	85.74	85.09	83.86	84.33	84.62	83.99	83.84
17	88.53	85.58	87.46	87.44	86.75	85.76	85.03	84.18	84.48	84.48	83.97	83.90
18	88.39	85.91	87.20	87.56	86.74	85.62	84.83	84.15	84.52	84.38	83.85	83.87
19	88.36	86.17	87.14	87.35	86.72	85.60	84.63	84.11	84.50	84.37	83.88	83.72
20	88.45	86.41	87.34	87.17	86.77	85.72	84.51	84.23	84.47	84.35	83.93	83.69
21	88.36	86.68	87.42	87.26	86.77	85.73	84.48	84.25	84.36	84.34	83.95	83.81
22	88.34	86.80	87.41	87.38	86.72	85.65	83.88	84.20	84.42	84.34	83.91	83.85
23	88.32	86.80	87.37	87.46	86.64	85.62	82.46	84.10	84.50	84.33	83.95	83.70
24	88.36	86.87	87.47	87.36	86.72	85.54	81.18	84.04	84.51	84.30	83.99	83.53
25	88.28	87.00	87.64	87.36	86.68	85.56	80.25	83.93	84.42	84.27	83.83	83.34
26	88.37	87.17	87.77	87.39	86.60	85.62	79.47	83.92	84.43	84.23	83.74	83.39
27	88.54	87.26	87.81	87.30	86.76	85.61	78.96	83.98	84.44	84.27	83.62	83.51
28	88.50	87.36	87.75	87.12	86.81	85.58	78.53	84.08	84.46	84.28	83.61	83.65
29	88.41	87.50	87.73	87.00	---	85.40	78.60	83.97	84.40	84.17	83.61	83.73
30	88.32	87.67	87.63	86.85	---	85.47	78.89	83.82	84.35	84.14	83.52	83.57
31	88.38	---	87.71	86.98	---	85.70	---	83.88	---	84.15	83.61	---

WTR YR 1991

MEAN 85.45

HIGHEST 78.53 APR 28

LOWEST 88.91 OCT 7

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 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205.00	204.87	204.97	205.03	204.93	204.17	204.09	203.65	203.54	203.75	203.62	203.78
2	205.03	204.87	204.82	205.00	204.91	203.89	204.05	203.67	203.52	203.75	203.67	203.89
3	205.08	204.85	204.62	204.98	204.81	203.46	204.09	203.64	203.49	203.77	203.71	203.88
4	205.03	204.70	204.75	205.03	204.74	203.77	204.09	203.65	203.48	203.82	203.66	203.78
5	205.00	204.50	204.89	205.06	204.64	204.02	204.01	203.69	203.58	203.88	203.64	203.78
6	204.98	204.60	204.72	205.01	204.54	203.90	203.92	203.72	203.76	203.92	203.72	203.93
7	204.99	204.69	204.59	204.86	204.41	203.91	203.85	203.86	203.87	203.95	203.79	203.98
8	204.99	204.70	204.67	204.93	204.36	204.01	203.82	203.84	203.88	203.91	203.74	204.02
9	204.91	204.50	204.87	205.05	204.37	204.15	203.76	203.80	203.91	203.82	203.67	204.08
10	204.71	204.52	204.83	204.97	204.33	204.28	203.76	203.87	203.91	203.80	203.64	204.08
11	204.68	204.90	204.77	204.66	204.41	204.27	203.85	203.88	203.89	203.79	203.68	204.06
12	204.60	204.90	204.76	204.57	204.50	204.10	203.92	203.77	203.87	203.81	203.67	204.05
13	204.66	204.88	204.75	204.75	204.19	203.75	203.88	203.65	203.90	203.77	203.66	204.08
14	204.73	204.97	204.82	204.81	203.92	203.81	203.77	203.58	203.94	203.76	203.66	204.13
15	204.84	205.02	204.85	204.58	204.19	204.05	203.73	203.61	203.93	203.80	203.73	204.24
16	204.91	204.89	204.82	204.48	204.65	204.23	203.75	203.68	203.89	203.82	203.75	204.27
17	204.91	204.72	204.75	204.77	204.59	204.09	203.67	203.72	203.87	203.76	203.70	204.38
18	204.76	204.74	204.51	204.85	204.51	203.80	203.54	203.73	203.90	203.76	203.59	204.41
19	204.79	204.75	204.65	204.58	204.45	203.91	203.51	203.74	203.93	203.80	203.56	204.45
20	204.83	204.80	204.85	204.44	204.47	204.01	203.50	203.76	203.94	203.85	203.59	204.54
21	204.81	204.84	204.87	204.55	204.42	204.01	203.48	203.73	203.92	203.84	203.70	204.72
22	204.64	204.75	204.78	204.69	204.26	203.98	203.49	203.71	203.91	203.78	203.68	204.86
23	204.58	204.59	204.68	204.74	204.18	203.95	203.44	203.73	203.91	203.70	203.72	204.91
24	204.60	204.62	204.86	204.63	204.31	203.93	203.61	203.73	203.96	203.67	203.78	204.82
25	204.57	204.71	205.01	204.73	204.21	203.96	203.68	203.67	203.97	203.74	203.80	204.59
26	204.72	204.76	205.09	204.73	204.21	203.99	203.68	203.63	203.91	203.81	203.82	204.69
27	204.90	204.77	205.08	204.58	204.36	203.89	203.58	203.71	204.02	203.79	203.82	204.81
28	204.89	204.75	205.05	204.39	204.36	203.73	203.57	203.74	204.02	203.73	203.85	204.99
29	204.89	204.89	205.02	204.49	---	203.41	203.62	203.66	203.92	203.68	203.83	205.09
30	204.94	205.04	204.94	204.38	---	203.72	203.67	203.56	203.81	203.66	203.74	205.04
31	204.91	---	204.97	204.65	---	203.98	---	203.55	---	203.64	203.71	---

WTR YR 1991

MEAN 204.22

HIGHEST 203.41 MAR 29

LOWEST 205.09 DEC 26, SEP 29

INDEX

	Page		Page
Abbeville, Ocmulgee River at	172	Bacteria, definition of	19
Access to WATSTORE data	17-18	Bainbridge, Flint River at	373
Acre-foot, definition of	19	Flint River below	374-375
Adenosine triphosphate, definition of	19	Baxley, Altamaha River near	201-203
Alapaha River at Statenville	3,252-254	Beaver Creek near Cobbtown	482
Albany, Emily Avenue Canal at	487	Beaverdam Creek (tributary to Savannah River)	
Flint River at	358-361	above Elberton	42
Kinchafoonee Creek tributary at	487	Beaverdam Creek (tributary to Brier Creek)	
Kinchafoonee Creek tributary No. 2 at	487	near Sardis	74
Percosin Creek tributary at	487	Bed load, definition of	22
Alcovy River above Covington	141	Bed load discharge, definition of	22
above Stewart	142	Bed material, definition of	19
Algae, definition of	19	Bell, Broad River near	43-45
Algal growth potential, definition of	19	Bemiss, Withlacoochee River	
Aline, Ochopee River near	4	at McMillan Road, near	256
Alkalinity, definition of	19	Berlin, Indian Creek near	259
Allatoona Reservoir near Cartersville, contents of	465	Big Creek (Apalachicola River Basin) near	
Alpharetta, Big Creek near	284	Alpharetta	284
Altamaha River at Doctortown	208	Big Creek (Ogeechee River Basin) near	
near Baxley	201-203	Louisville	4
near Everett City	212-216	Big Sandy Creek tributary near Irwinton	481
near Gardi	209-210	Biochemical oxygen demand, definition of	19
near Jesup	207	Biomass, definition of	19
Altamaha River Basin,		Black Creek near Blitchton	115
crest-stage partial-record stations in	480-482	Blairsville, Nottely River near	468
gaging-station records in	122-216	Blakely, Temple Creek near	486
lakes and reservoirs in	217-218	Blitchton, Black Creek near	115
peak discharge at miscellaneous sites in	489	Blue-green algae, definition of	22
Apalachee River near Bostwick	186-187	Blue Ridge, Blue Ridge Lake near,	
Apalachicola River Basin,		contents of	478
crest-stage partial-record stations in	484-487	Blue Ridge Lake near Blue Ridge,	
gaging-station records in	271-377	contents of	478
lakes in	378-382	Bluff Springs Branch near Lumpkin	485
peak discharge at miscellaneous sites in	489	Bonaire, Ocmulgee River near	170
Appling, Kiokee Creek at	479	Bostwick, Apalachee River near	186-187
Aquifer, definition of	19	Bottom material, definition of	19
Arcade, Middle Oconee River near	179	Boulogne, Fla., St Marys River at	247
Armuchee, Heath Creek below Rocky Mountain		Bowdon, Little Tallapoosa River below	462
Dam site, near	413	Brier Creek (Savannah River Basin)	
Arnold Creek tributary near Tifton	483	at Millhaven	2,71-73
Artesian, definition of	19	near Thomson	2,68
Artificial substrate, definition of	23	near Waynesboro	2,70
Ash mass, definition of	19	Brier Creek (Tennessee River Basin)	
Athens, Brooklyn Creek at	481	near Hiawassee	467
Middle Oconee River near	180	Bristol, Crooked Creek tributary near	482
North Oconee River above	181	Broad River near Bell	43-45
Tanyard Creek at	481	Brooklyn Creek at Athens	481
Atkinson, Satilla River at	238-242	Bruces Branch at Thomasville	484
Satilla River tributary No. 2 at	482	tributary at Thomasville	484
Atlanta, Chattahoochee River at	288	Brunswick, Brunswick River at Jekyll Island,	
Chattahoochee River at I-285, at	294-295	near	225-226
Chattahoochee River at State Highway		East River at Mayors Point Terminal at	221-222
280, near	293	Makay River at Torras Causeway near	227-228
North Fork Peachtree Creek		South Brunswick River at Colonels	
tributary near	484	Island near	223-224
Peachtree Creek at	289-292	Turtle River at Georgia Highway 303 at	219-220
Shoal Creek near	480	Brunswick River at Village Pier at	
Shoal Creek tributary near	480	St. Simons Island	229-230
South Fork Peachtree Creek		at Jekyll Island, near Brunswick	225-226
tributary near	484	Brunswick River Basin, gaging-station	
South River at	122-124	records in	219-230
Augusta, Butler Creek at levee, at	51	Brushy Creek near Wrens	2,69
Raes Creek tributary No. 1 at	479	Buck Creek near Ellaville	486
Rocky Creek tributary at	479	tributary near Tazewell	486
Savannah River at	52-57	Buffalo Creek (Altamaha River Basin)	
Savannah River below Spirit Creek, near	58-59	near Linton	481
Austell, Sweetwater Creek near	296-298	Buffalo Creek (Savannah River Basin)	
Avalon, Eastanollee Creek near	39	near Lexington	479

	Page		Page
Buford, Chattahoochee River at Buford Dam, near	280	Clyattville, Withlacoochee River near	265-266
Lake Sidney Lanier near, contents of	378	Clyo, Savannah River near	75-80
Bull Creek tributary at Columbus	485	Cobbtown, Beaver Creek near	482
Bullard, Savage Creek near	481	Coleman, Cemochechobee Creek near	486
Butler, Whitewater Creek near	486	Coleoatchee Creek near Manchester	486
Butler Creek at levee, at Augusta	51	Collection and computation of stage and water-discharge data	11-12
Byromville, Turkey Creek at	352	Collection of water-quality data	14
Calhoun, Coosawattee River near	390-391	Collection and computation of ground-water-level data	15
Calhoun Falls, S.C., Richard B. Russell Reservoir, contents of	103	Collector efficiency, definition of	20
Calvary, Ochlockonee River near	269-270	Color unit, definition of	20
Camp Creek tributary near Stockbridge	480	Colquitt, Spring Creek at	487
Canoochee River near Claxton	2,116-118	Columbia, Ala., Chattahoochee River near	330-332
near Richmond Hill	119	Columbus, Bull Creek tributary at	485
Canton, Etowah River at	3,419-422	Chattahoochee River at	325-326
Cartecay River near Ellijay	383	Lake Harding near, contents of	380
Carters, Carters Lake near, contents of	463	Lindsey Creek tributary at	485
Carters Re-regulation Dam near, contents of	464	Mill Branch at	485
Coosawattee River at	388	Upatoi Creek near	327
Carters Lake near Carters, contents of	463	Conasauga River at Tilton	396-407
Carters Re-regulation Dam near Carters, contents of	464	near Dalton	394
Cartersville, Allatoona Reservoir near, contents of	465	near Dawnville	487
Etowah River at Allatoona Dam, above	423-424	near Eton	392
Etowah River near	425	near Resaca	408
Cedar Creek (Apalachicola River Basin) near Rupert	486	Conley Creek near Forest Park	480
Cedar Creek (Mobile River Basin) at Cedartown	441	Contents, definition of	20
near Cedartown	442	Control, definition of	20
Cedartown, Cedar Creek at	441	Control structure, definition of	20
Cedar Creek near	442	Cook County, ground-water levels in	502
Cells/volume, definition of	19	Coolidge, Ochlockonee River near	483
Cemochechobee Creek near Coleman	486	Ochlockonee River tributary near	483
Cfs-day, definition of	19	Cooperation	1
Chamblee, North Fork Peachtree Creek tributary near	484	Coosa, Coosa River near	443-452
Charlton County, ground-water levels in	496	Coosa River near Coosa	443-452
Chatham County, ground-water levels in	497-501	near Rome	433-440
Chatsworth, Holly Creek near	395	Coosawattee River at Carters	388
Chattahoochee, Fla., Lake Seminole at, contents of	382	near Calhoun	390-391
Chattahoochee River above Roswell	283	near Ellijay	384
at Atlanta	288	near Pine Chapel	389
at Buford Dam, near Buford	280	Corinth, New River near	317
at Capps Ferry bridge, near Rico	310	Cornelia, Chattahoochee River near	273-275
at Coast Guard Dock at Eufaula, Ala.	328-329	Covington, Alcovy River above	141
at Columbus	325-326	Crandall, Mill Creek near	393
at Franklin	316	Crooked Creek tributary (Satilla River Basin) near Bristol	482
at Helen	271	tributary No. 2 (Chattahoochee River Basin) near Norcross	484
at I-285, at Atlanta	294-295	Crooked River Basin gaging-station records in	243-244
at Langdale, Ala.	324	Cubic foot per second, definition of	20
at Morgan Falls Dam, at Sandy Springs	285	Cubic feet per second per square mile, definition of	20
at Nacoochee	272	Culloden, Flint River near	3,345-347
at State Highway 280, near Atlanta	293	Cumberland Sound at Dungeness Dock near St Marys	243-244
at West Point	320-322	Cusseta, Ochillee Creek near	485
near Columbia, Ala.	330-332		
near Cornelia	273-275	Dahlonega, Chestatee River near	277-279
near Fairburn	299-309	Dallas, McClendon Creek tributary near	488
near La Grange	318-319	Dalton, Conasauga River near	394
near Norcross	282	Davisboro, Williamson Swamp Creek at	106-107
near Steam Mill	333-334	Dawnville, Conasauga River near	487
near Whitesburg	312-315	Dawson, Kinchafoonee Creek near	356
Chattooga River (Mobile River Basin) at Chattoogaville	458-459	Dawsonville, Etowah River near	418
at Summerville	454-457	Decatur County, ground-water levels in	503
Chattooga River (Savannah River Basin) near Clayton	33-35	Definition of terms	19-24
Chattoogaville, Chattooga River at	458-459	Dial, Toccoa River near	469-470
Chauncey, Gum Swamp Creek near	481	Diatoms, definition of	22
Chemical oxygen demand, definition of	20	Dicks Creek near Neels Gap	276
Chestatee River near Dahlonega	277-279	Digbey, Line Creek near	343
Chlorophyll, definition of	20	Dillard, Little Tennessee River near	466
Choctahatchee Creek tributary near Plains	487	Discharge, definition of	20
Clarks Hill, S.C., Thurmond Lake near, contents of	104	Dissolved, definition of	20
Claxton, Canoochee River near	2,116-118	Dissolved-solids concentration, definition of	20
Clayton, Chattooga River near	33-35	Doctortown, Altamaha River at	208
Lake Burton near, contents of	101	Dougherty County, ground-water levels in	504-506
Stekoa Creek below	36	Downstream order system	10
Tallulah River near	37-38	Drainage area, definition of	20
		Drainage basin, definition of	20
		Dry mass, definition of	19

Page	Page
Dublin, Oconee River at.....	196-197
Oconee River at I-16, near.....	198-199
Turkey Creek near.....	482
Dukes Bay Canal at Valdosta.....	482
Dukes Bay Canal at Industrial Boulevard at Valdosta.....	482
East Point, South Utoy Creek tributary at.....	484
East River at Mayors Point Terminal at Brunswick.....	221-222
Eastanollee Creek near Avalon.....	39
Eastman, Gum Swamp Creek near.....	177
Eatonton, Lake Oconee near, contents of.....	217
Little River near.....	188-189
Murder Creek below.....	190-191
Ebenezer Creek at Springfield.....	81
near Stillwell.....	82
Eden, Ogeechee River near.....	2,4,110-114
Edison, Pachitla Creek near.....	370
Elberton, Beaverdam Creek above.....	42
Ellaville, Buck Creek near.....	486
Ellijay, Cartecay River near.....	383
Coosawattee River near.....	384
Emily Avenue Canal at Albany.....	487
Eton, Conasauga River near.....	392
Pinhook Creek near.....	487
Etowah River at Allatoona Dam, above Cartersville.....	423-424
at Canton.....	3,419-422
at Euharlee.....	426
at Rome.....	431-432
near Cartersville.....	425
near Dawsonville.....	418
near Euharlee.....	427-428
near Kingston.....	429
tributary near Rome.....	487
Eufaula, Ala., Chattahoochee River at Coast Guard Dock at.....	328-329
Euharlee Creek at Rockmart.....	487
Euharlee, Etowah River at.....	426
Etowah River near.....	427-428
Everett City, Altamaha River near.....	212-216
Explanation of records.....	10-17
Fairburn, Chattahoochee River near.....	299-309
Fairplay, Hurricane Creek tributary near.....	485
Falling Creek near Juliette.....	146-150
Fargo, Suwannee River at.....	248-251
Fausett Creek near Talking Rock.....	385
Fayetteville, Flint River near.....	336
Fecal coliform bacteria, definition of.....	19
Fecal streptococcal bacteria, definition of.....	19
Flat Shoal Creek near West Point.....	485
Flint River above Griffin.....	339-340
at Albany.....	358-361
at Bainbridge.....	373
at Montezuma.....	348-351
at Newton.....	364-369
at State Highway 32, near Oakfield.....	354
below Bainbridge.....	374-375
near Culloden.....	3,345-347
near Fayetteville.....	336
near Griffin.....	341
near Inman.....	338
near Jonesboro.....	335
near Lovejoy.....	337
near Putney.....	362-363
near Thomaston.....	344
near Vienna.....	353
Folsom Creek tributary near Rochelle.....	481
Forest Park, Conley Creek near.....	480
Fort Gaines, Walter F. George Lake near, contents of.....	381
Fort Pulaski, Savannah River at.....	99-100
Franklin, Chattahoochee River at.....	316
Fulton County, ground-water levels in.....	507
Gage height, definition of.....	20
Gaging station, definition of.....	20
list of active and discontinued.....	490-495
Gardi, Altamaha River near.....	209-210
Geneva, Juniper Creek near.....	485
Glynn County, ground-water levels in.....	508
Grange, Rocky Comfort Creek near.....	479
Graph showing permitted water withdrawal for water year 1991, by use category.....	8
Gray, Walnut Creek near.....	155
Graysville, South Chickamauga Creek at.....	471-472
Green algae, definition of.....	22
Griffin, Flint River above.....	339-340
Flint River near.....	341
Ground water, summary of hydrologic conditions.....	6
Ground-water levels, data collection and computation of.....	16
data presentation of.....	16
explanation of records of.....	15-16
list of records published in this report, by county.....	x
Gum Swamp Creek near Chauncey.....	481
near Eastman.....	177
Halfmoon Landing, North Newport River at.....	120-121
Hardness, definition of.....	20
Hardwick, Oconee River near.....	194
Harrisburg Creek near Hawkins.....	488
Hartwell, Hartwell Lake near, contents of.....	102
Savannah River below Hartwell Lake, near.....	40
Hartwell Lake near Hartwell, contents of.....	102
Hawkins, Harrisburg Creek near.....	488
Hawkinsville, Tucsawhatchee Creek.....	171
Heath Creek below Rocky Mountain Damsite, near Armuchee.....	413
Helen, Chattahoochee River at.....	271
Hiawassee, Brier Creek near.....	467
Hinton, Scarecorn Creek at.....	386
Talking Rock Creek near.....	387
Hoboken, Satilla River near.....	234-235
Holly Creek near Chatsworth.....	395
Horsehead Creek near Montezuma.....	487
Hurricane Creek tributary near Fairplay.....	485
Hydrologic bench-mark network, explanation of.....	10
definition of.....	20
Hydrologic conditions, summary of.....	2-9
Hydrologic conditions, graph of surface water.....	2-4
Hydrologic unit, definition of.....	20
Ichawaynochaway Creek at Milford.....	371-372
Indian Creek near Berlin.....	259
Inman, Flint River near.....	338
Instantaneous discharge, definition of.....	20
Introduction.....	1
Iron City, Spring Creek near.....	376-377
Irwinton, Big Sandy Creek tributary near.....	481
Iva, S.C., Savannah River near.....	41
Ivylog, Nottely Lake near, contents of.....	477
Jackson Creek near Lilburn.....	480
tributary No. 1 near Lilburn.....	480
tributary No. 2 near Lilburn.....	480
Jackson, Lloyd Shoals Reservoir near, contents of.....	217
Ocmulgee River near.....	143-144
Jackson, S.C., Savannah River near.....	60-62
Jesup, Altamaha River near.....	207
Penholoway Creek near.....	211
Jewell, Ogeechee River at.....	4,479
Jonesboro, Flint River near.....	335
Juliette, Falling Creek near.....	146-150
Towaliga River near.....	145
Juniper, Pine Knot Creek near.....	485
Juniper Creek near Geneva.....	485

	Page		Page
Kettle Creek near Washington.....	46	Long Cane Creek near West Point.....	323
Kinchafoon Creek at Preston.....	355	Long County, ground-water levels in	512
near Dawson.....	356	Lookout Creek near New England	475-476
tributary at Albany.....	487	Louisville, Big Creek near	4
tributary No. 2 at Albany.....	487	Ogeechee River near	4
Kingston, Etowah River near.....	429	Spring Creek near	480
Two Run Creek near.....	430	Lovejoy, Flint River near.....	337
Kiokee Creek at Appling	479	Lowndes County, ground-water levels in	513
LaGrange, Chattahoochee River near.....	318-319	Lumber City, Ocmulgee River at.....	173-176
Lake Burton near Clayton, contents of.....	101	Lumpkin, Bluff Springs Branch near	485
Lake Harding near Columbus, contents of.....	380	McBean, McBean Creek near.....	479
Lake Oconee near Eatonton, contents of.....	217	McBean Creek near McBean	479
Lake Seminole at Chattahoochee, Fla.,		McClendon Creek tributary near Dallas	488
contents of.....	382	McIntosh County, ground-water levels in	514
Lake Sidney Lanier near Buford, contents of.....	378	McRae, Turnpike Creek near	178
Lakes and Reservoirs:		Macon, Ocmulgee River near	245-246
Allatoona Reservoir, contents of.....	465	Ocmulgee River above	151-152
Blue Ridge Lake, contents of.....	478	Ocmulgee River at	153-154
Burton Lake, contents of.....	101	Tobesofkee Creek at	157
Carters Lake, contents of.....	463	Tobesofkee Creek near.....	156
Carters Re-regulation Dam, contents of.....	464	Tobesofkee Creek tributary at U.S. Highway	
Harding Lake, contents of.....	380	41 at	158
Hartwell Lake, contents of	102	Makay River at Torras Causeway, near Brunswick.....	227-228
Lloyd Shoals Reservoir, contents of.....	217	Manchester, Coleoatchee Creek near	486
Mathis Reservoir, contents of	101	Mann Creek tributary near Tallapoosa.....	488
Nottely Lake, contents of	477	Map showing location of crest-stage partial-	
Oconee Lake, contents of.....	217	record gaging stations.....	28
Richard B. Russell Reservoir, contents of	103	Map showing location of gaging stations	27
Seminole, Lake, contents of	382	Map showing location of ground-water level	
Sidney Lanier, Lake, contents of	378	observation wells.....	30
Sinclair Reservoir, contents of	218	Map showing location of water-quality	
Thurmond Lake, contents of	104	sampling stations.....	29
Walter F. George Lake, contents of.....	381	Map showing permitted water withdrawal for	
West Point Lake, contents of	379	water year 1991, by county;	
Lakemont, Mathis Reservoir near, contents of	101	(a) public supply, (b) industrial,	
Lakeview, West Chickamauga Creek near.....	473-474	(c) thermoelectric	9
Land surface datum, definition of	20	Marietta, Sope Creek at Old Canton Road near	484
Langdale, Ala., Chattahoochee River at.....	324	Sope Creek near	286-287
Latitude-longitude system	11	Martinez, Savannah River near	49
Laurens County, ground-water levels in.....	509	Mathis Reservoir near Lakemont, contents of	101
Lazar Creek near Talbotton	486	Mean concentration, definition of.....	23
Leesburg, Muckalee Creek at State Highway 195, near.....	357	Mean discharge, definition of	20
Lexington, Buffalo Creek near.....	479	Measuring point, definition of.....	20
Liberty County, ground-water levels in	510-511	Metamorphic stage, definition of	21
Lilburn, Jackson Creek near.....	480	Methylene blue active substances, definition of.....	21
Jackson Creek tributary No. 1 near.....	480	Micrograms per gram, definition of.....	21
Jackson Creek tributary No. 2 near.....	480	Micrograms per liter, definition of	21
Limehouse, S.C.,		Middle Oconee River near Arcade.....	179
Little Back River above Lucknow Canal, near.....	93-94	near Athens.....	180
Little Back River near	95-96	Milford, Ichawaynochaway Creek at.....	371-372
Little Back River at U.S. Fish and Wildlife		Mill Branch at Columbus	485
Dock, near	97-98	Mill Creek (Mobile River Basin) near Crandall	393
Lindsey Creek tributary at Columbus	485	Mill Creek (Ogeechee River Basin) near Pembroke	480
Line Creek near Digbey	343	Milledgeville, Oconee River at	192-193
near Senoia	342	Sinclair Reservoir near, contents of.....	218
Linton, Buffalo Creek near.....	481	Miller County, ground-water levels in.....	515
Lithonia, South River at Klondike Road, near	126-133	Millett, S.C., Savannah River below Steel Creek,	
South River near.....	125	near	63-64
Little Back River above Lucknow Canal, near		Millhaven, Brier Creek at.....	2,71-73
Limehouse, S.C.....	93-94	Savannah River at Burtons Ferry Bridge, near.....	66-67
at U.S. Fish and Wildlife Dock,		Milligrams per liter, definition of.....	21
near Limehouse, S.C.....	97-98	Milstead, Yellow River at.....	138
near Limehouse, S.C.....	95-96	Mobile River Basin,	
Little River (Altamaha River Basin) near Eatonton.....	188-189	crest-stage partial-record stations in	487-488
Little River (Savannah River Basin) at U.S. Highway 78,		gaging-station records in.....	383-462
near Washington	48	lakes and reservoirs in	463-465
near Washington	47	Montezuma, Flint River at.....	348-351
Little River (Suwannee River Basin) near		Horsehead Creek near	487
Statenville	482	Mossy Creek near Perry.....	481
Little Ochlockonee River near Moultrie	483	Moultrie, Little Ochlockonee River near	483
Little Ohoopie River near Swainsboro.....	4,482	Ochlockonee River near.....	267
Little Satilla River near Offerman.....	236-237	Ochlockonee River tributary at	483
Little Tallapoosa River below Bowdon	462	Okapilco Creek tributary at	483
Little Tennessee River near Dillard.....	466	tributary of Ochlockonee River tributary at	483
Lloyd Shoals Reservoir near Jackson, contents of.....	217	Mount Vernon, Oconee River near	200
Long Cane Creek near West Point.....	323	Muckalee Creek at State Highway 195, near Leesburg.....	357
		Mulberry Creek near Mulberry Grove.....	485

Page	Page
Mulberry Grove, Mulberry Creek near.....	485
Mulberry River near Winder.....	481
tributary near Winder.....	481
Murder Creek below Eatonton.....	190-191
Nacoochee, Chattahoochee River at.....	272
National Geodetic Vertical Datum of 1929, definition of.....	21
National stream-quality accounting network (NASQAN), explanation of.....	10
definition of.....	21
National trends network (NTN), explanation of.....	10
definition of.....	21
Natural substrate, definition of.....	23
Neels Gap, Dicks Creek near.....	276
New England, Lookout Creek near.....	475-476
New River (Apalachicola River Basin) near Corinth.....	317
New River (Suwannee River Basin) near Tifton.....	255
Newton, Flint River at.....	364-69
Norcross, Chattahoochee River near.....	282
Crooked Creek tributary No. 2 near.....	484
North Augusta, Savannah River near.....	50
North Fork Peachtree Creek tributary near Atlanta.....	484
near Chamblee.....	484
North Newport River at Halfmoon Landing.....	120-121
North Newport River Basin, gaging-station records in.....	120-121
North Oconee River above Athens.....	181
Nottely Lake near Ivylog, contents of.....	477
Nottely River near Blairsville.....	468
Oakfield, Flint River at State Highway 32, near.....	354
Ochillee Creek near Cusseta.....	485
Ochlockonee River near Calvary.....	269-270
near Coolidge.....	483
near Moultrie.....	267
near Thomasville.....	268
tributary at Moultrie.....	483
tributary near Coolidge.....	483
tributary of tributary at Moultrie.....	483
Ochlockonee River Basin, crest-stage partial- record stations in.....	483-484
gaging-station records in.....	267-270
Ocmulgee River above Macon.....	151-152
at Abbeville.....	172
at Lumber City.....	173-176
at Macon.....	153-154
near Bonaire.....	170
near Jackson.....	143-144
near Warner Robins.....	159-169
Oconee River at Dublin.....	196-197
at I-16, near Dublin.....	198-199
at Milledgeville.....	192-193
near Hardwick.....	194
near Mount Vernon.....	200
near Penfield.....	184-185
near Toombsboro.....	195
near Watkinsonville.....	182-183
Offerman, Little Satilla River near.....	236-237
Ogeechee River at Jewell.....	4,479
at Scarboro.....	4
near Eden.....	2,4,110-114
near Louisville.....	4
near Oliver.....	108-109
near Wadley.....	4,105
Ogeechee River Basin crest-stage partial-record stations in.....	479-480
gaging-station records in.....	105-119
peak discharge at miscellaneous sites in.....	489
Ohoopsee River near Aline.....	4
near Reidsville.....	4,204-206
Okapilco Creek at Quitman.....	264
at State Highway 33, near Quitman.....	2,263
tributary at Moultrie.....	483
Olive Creek tributary at Thomasville.....	483
Oliver, Ogeechee River near.....	108-109
Onemile Branch at Vallotton Street, at Valdosta.....	482
at Wainright Drive, at Valdosta.....	482
Oostanaula River at Resaca.....	409-411
at Rome.....	415-416
at 5th Avenue, at Rome.....	417
below Resaca.....	412
near Rome.....	414
Oquina Creek at Cairo Road, at Thomasville.....	484
at Wolf Street, at Thomasville.....	484
Organic mass, definition of.....	19
Organism, definition of.....	21
Organism count/area, definition of.....	21
Organism count/volume, definition of.....	21
Other records available.....	14
Pachitla Creek near Edison.....	370
Parameter code, definition of.....	21
Partial-record station, definition of.....	21
Particle size, definition of.....	21
Particle size classification, definition of.....	21
Peachtree Creek at Atlanta.....	289-292
North Fork tributary near Atlanta.....	484
North Fork tributary near Chamblee.....	484
South Fork tributary near Atlanta.....	484
Pembroke, Mill Creek near.....	480
Penfield, Oconee River near.....	184-185
Penholoway Creek near Jesup.....	211
Percosin Creek tributary at Albany.....	487
Periphyton, definition of.....	22
Perry, Mossy Creek near.....	481
Pesticides, definition of.....	22
Phytoplankton, definition of.....	22
Picocurie, definition of.....	22
Pine Chapel, Coosawatee River near.....	389
Pine Knot Creek near Juniper.....	485
Pinhook Creek near Eton.....	487
Plains, Choctahatchee Creek tributary near.....	487
Plankton, definition of.....	22
Popple Branch near Whigham.....	484
Port Wentworth, Savannah (Front) River at U.S. 17, at.....	87-90
Savannah River near.....	83-86
Precipitation quality.....	16
data presentation.....	17
on-site measurements and sample collection.....	16-17
Preston, Kinchafoonee Creek at.....	355
Primary productivity, definition of.....	22
Publications on techniques of water resources investigations.....	25-26
Putney, Flint River near.....	362-363
Quitman, Okapilco Creek at.....	264
Okapilco Creek at State Highway 33, near.....	2,263
Withlacoochee River near.....	260-262
Radiochemical program, explanation of.....	10
definition of.....	22
Raes Creek tributary No. 1 at Augusta.....	479
Randolph County, ground-water levels in.....	516
Recoverable from bottom material, definition of.....	22
Reidsville, Ohoopsee River near.....	4,204-206
Resaca, Conasauga River near.....	408
Oostanaula River at.....	409-411
Oostanaula River below.....	412
Reservoirs, <u>See</u> Lakes and reservoirs	
Return period, definition of.....	22
Richard B. Russell Reservoir near Calhoun Falls, S.C., contents of.....	103
Richmond Hill, Canoochee River near.....	119

Rico, Chattahoochee River at Capps Ferry Bridge, near.....	310
Rochelle, Folsom Creek tributary near.....	481
Rockmart, Euharlee Creek at.....	487
Rocky Comfort Creek near Grange.....	479
Rocky Creek tributary at Augusta.....	479
Rome, Coosa River near.....	433-440
Etowah River at.....	431-432
Etowah River tributary near.....	487
Oostanaula River at.....	415-416
Oostanaula River at 5th Avenue, at.....	417
Oostanaula River near.....	414
Silver Creek tributary No. 3 at.....	488
Silver Creek tributary No. 2 at Lindale Road near.....	488
Roswell, Chattahoochee River above.....	283
Runoff in inches, definition of.....	22
Rupert, Cedar Creek near.....	486
St Marys, Cumberland Sound at Dungeness Dock, near.....	243-244
St Marys River at Boulogne, Fla.....	247
near Macclenny, Fla.....	245-246
St Marys River Basin, gaging-station records in.....	245-247
St. Simons Island, Brunswick River at Village Pier, at.....	229-230
Sandy Springs, Chattahoochee River at Morgan Falls Dam, at.....	285
Sardis, Beaverdam Creek near.....	74
Satilla River at Atkinson.....	238-242
at Walerstown.....	232
near Hoboken.....	234-235
near Waycross.....	233
tributary No. 2 at Atkinson.....	482
Satilla River Basin, crest-stage partial- record stations in.....	482
gaging-station records in.....	231-242
Savage Creek near Bullard.....	481
Savannah, Savannah River at Broad Street, at.....	91-92
Wilshire Canal near.....	480
Wilshire Canal tributary near.....	480
Savannah (Front) River at U.S. 17, at Port Wentworth.....	87-90
Savannah River at Augusta.....	52-57
at Broad Street, at Savannah.....	91-92
at Burtons Ferry Bridge, near Millhaven.....	66-67
at Fort Pulaski.....	99-100
at Stony Bluff Landing.....	65
below Hartwell Lake, near Hartwell.....	40
below Spirit Creek, near Augusta.....	58-59
below Steel Creek, near Millett, S.C.....	63-64
near Clio.....	75-80
near Iva, S.C.....	41
near Jackson, S.C.....	60-62
near Martinez.....	49
near North Augusta.....	50
near Port Wentworth.....	83-86
Savannah River Basin, crest-stage partial-record stations in.....	479
gaging-station records in.....	33-100
lakes and reservoirs in.....	101-104
peak discharge at miscellaneous sites in.....	489
Scarboro, Ogeechee River at.....	4
Scarecorn Creek at Hinton.....	386
Sediment, definition of.....	22
explanation of.....	14
Senoia, Line Creek near.....	342
Seventeenmile River near Stokesville.....	231
Shoal Creek near Atlanta.....	480
tributary near Atlanta.....	480
Silver Creek tributary No. 3 at Rome.....	488
tributary No. 2 at Lindale Road, near Rome.....	488
Sinclair Reservoir near Milledgeville, contents of.....	218
Snake Creek near Whitesburg.....	2,311
Snapping Shoals, South River at.....	134-135
Snellville, Watson Creek tributary No. 2 at.....	481
Yellow River near.....	136-137
Sodium-adsorption-ratio, definition of.....	23

Solute, definition of.....	23
Sope Creek at Old Canton Road near Marietta.....	484
near Marietta.....	286-287
South Brunswick River at Colonels Island near Brunswick.....	223-224
South Chickamauga Creek at Graysville.....	471-472
South Fork Peachtree Creek tributary near Atlanta.....	484
South River at Atlanta.....	122-124
at Klondike Road, near Lithonia.....	126-133
at Snapping Shoals.....	134-135
near Lithonia.....	125
South Utoy Creek tributary at East Point.....	484
Spalding County, ground-water levels in.....	517
Special networks and programs.....	10
Specific conductance, definition of.....	23
Spring Creek (Apalachicola River Basin) at Colquitt.....	487
near Iron City.....	376-377
Spring Creek (Ogeechee River Basin) near Louisville.....	480
Spring Creek (Mobile River Basin) near Trion.....	453
Springfield, Ebenezer Creek at.....	81
Stage and water discharge, accuracy of records of.....	13
data collection and computation of.....	11-12
data presentation of.....	12-13
explanation of records of.....	11-14
identifying estimated daily discharge of.....	13
other records available of.....	14
Stage-discharge relation, definition of.....	23
Statenville, Alapaha River at.....	3,252-254
Little River near.....	482
Station identification numbers, explanation of.....	10
downstream order system of.....	10
latitude-longitude system of.....	11
Steam Mill, Chattahoochee River near.....	333-334
Stekoa Creek below Clayton.....	36
Stewart, Alcovy River above.....	142
Yellow River near.....	138-139
Stillwell, Ebenezer Creek near.....	82
Stockbridge, Camp Creek tributary near.....	480
Stokesville, Seventeenmile River near.....	231
Stony Bluff Landing, Savannah River at.....	65
Streamflow, definition of.....	23
Summary of hydrologic conditions of.....	2
Substrate, definition of.....	23
Sugar Creek tributary at Valdosta.....	482
Summerville, Chattooga River at.....	454-457
Surface area, definition of.....	23
Surface-water stations, list of active and discontinued.....	490-495
list of records published in this report, in downstream order.....	vi-ix
Surface water-quality, classification of.....	14
records of.....	14
data presentation of.....	15
explanation of records of.....	14-15
laboratory measurements of.....	15
on-site measurement and sample collection of.....	14
remarks codes.....	15
sediment.....	14
water temperature of.....	14
Surficial bed material, definition of.....	23
Suspended, definition of.....	23
Suspended, recoverable, definition of.....	23
Suspended, total, definition of.....	24
Suspended sediment, definition of.....	23
Suspended-sediment concentration, definition of.....	23
Suspended-sediment discharge, definition of.....	23
Suspended-sediment load, definition of.....	23
Suwanee Creek near Suwanee.....	281
Suwanee, Suwanee Creek near.....	281
Wolf Creek near.....	480
Suwanee River at Fargo.....	248-251
Suwanee River Basin, crest-stage partial- record stations in.....	482-483
gaging-station records in.....	248-266
Swainsboro, Little Ohoopie River near.....	4,482
Sweetwater Creek near Austell.....	296-298

Page	Page
Talbotton, Lazar Creek near	486
Talking Rock, Fausett Creek near	385
Talking Rock Creek near Hinton.....	387
Tallapoosa, Mann Creek tributary near	486
Tallapoosa River below.....	460-461
Tallapoosa River below Tallapoosa.....	460-461
Tallulah River near Clayton.....	37-38
Tanyard Creek at Athens	481
Taxonomy, definition of	24
Tazewell, Buck Creek tributary near.....	486
Techniques of water-resources investigations, publications on.....	25-26
Temple Creek near Blakely.....	486
Tennessee River Basin, gaging-station records in.....	466-476
lakes in.....	477-478
peak discharges at miscellaneous sites in.....	489
Thermograph, definition of.....	24
Thomaston, Flint River near.....	344
Thomasville, Brucos Branch at.....	484
Brucos Branch tributary at	484
Ochlockonee River near.....	268
Olive Creek tributary at	483
Oquina Creek at Cairo Road, at	484
Oquina Creek at Wolf Street, at.....	484
Thomson, Brier Creek near.....	2,68
Thurmond Lake near Clarks Hill, S.C., contents of.....	104
Tifton, Arnold Creek tributary near	483
New River near	255
Tilton, Conasauga River at.....	396-407
Time-weighted average, definition of.....	24
Tobesofkee Creek at Macon.....	157
near Macon.....	156
tributary at U.S. Highway 41, at Macon.....	158
Toccoa River near Dial	469-470
Tons per acre-foot, definition of	24
Tons per day, definition of.....	24
Toombsboro, Oconee River near	195
Total, definition of	24
Total, recoverable, definition of	24
Total coliform bacteria, definition of	19
Total discharge, definition of.....	24
Total organism count, definition of	21
Total-sediment discharge, definition of	23
Total-sediment load, definition of.....	23
Towaliga River near Juliette.....	145
Tritium network, explanation of.....	10
definition of.....	24
Trion, Spring Creek near.....	453
Tucsawhatchee Creek near Hawkinsville.....	171
Turkey Creek (Altamaha River Basin) near Dublin	482
Turkey Creek (Apalachicola River Basin) at Byromville.....	352
Turnpike Creek near McRae	178
Turtle River at Georgia Highway 303, at Brunswick.....	219-220
Two Run Creek near Kingston.....	430
Twomile Branch at Bemis Road, at Valdosta.....	483
at Oak Street, at Valdosta	483
at Valdosta.....	483
Upatoi Creek near Columbus.....	327
Valdosta, Dukes Bay Canal at	482
Dukes Bay Canal at Industrial Boulevard, at.....	482
Onemile Branch at Valbottom Street, at	482
Onemile Branch at Wainright Drive, at.....	482
Sugar Creek tributary at.....	482
Twomile Branch at	483
Twomile Branch at Bemis Road, at.....	483
Twomile Branch at Oak Street, at.....	483
Withlacoochee River above	257
Withlacoochee River near	258
Vienna, Flint River near	353
Wadley, Ogeechee River near	4,105
Walnut Creek near Gray.....	155
Walter F. George Lake near Fort Gaines, contents of	381
Waltertown, Satilla River at	232
Warner Robins, Ocmulgee River near.....	159-169
Washington, Kettle Creek near	46
Little River at U.S. Highway 78, near	48
Little River near.....	47
Water quality, summary of hydrologic conditions of.....	4
Water use, summary of hydrologic conditions of.....	8
Water year, definition of.....	24
Watkinsville, Oconee River near	182-183
Watson Creek tributary No. 2 at Snellville.....	481
Waycross, Satilla River near	233
Wayne County, ground-water levels in	518-519
Waynesboro, Brier Creek near.....	2,70
WDR, definition of	24
Weighted average, definition of	24
Wells and miscellaneous sites, system for numbering, illustration of.....	11
West Chickamauga Creek near Lakeview.....	473-474
West Point, Chattahoochee River at.....	320-322
Flat Shoal Creek near.....	485
Long Cane Creek near.....	323
West Point Lake near, contents of.....	379
West Point Lake near West Point, contents of.....	379
Wet mass, definition of	19
Whigham, Popple Branch near	484
Whitesburg, Chattahoochee River near	312-315
Snake Creek near	2,311
Whitewater Creek near Butler.....	486
Williamson Swamp Creek at Davisboro	106-107
Wilshire Canal near Savannah.....	480
tributary near Savannah.....	480
Winder, Mulberry River near	481
Mulberry River tributary near.....	481
Withlacoochee River above Valdosta	257
at McMillan Road near Bemiss.....	256
near Clyattville	265-266
near Quitman	260-262
near Valdosta.....	258
Wolf Creek near Suwanee	480
Worth County, ground-water levels in	520
Wrens, Brushy Creek near	2,69
WSP, definition of.....	24
Yellow River at Milstead.....	138
near Snellville	136-137
near Stewart	138-139
Zooplankton, definition of.....	22

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



U.S. DEPARTMENT OF THE INTERIOR
U.S. Geological Survey
6481 Peachtree Industrial Boulevard, Suite B
Doraville, GA 30360



OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE \$300
SPECIAL 4th CLASS BOOK RATE

