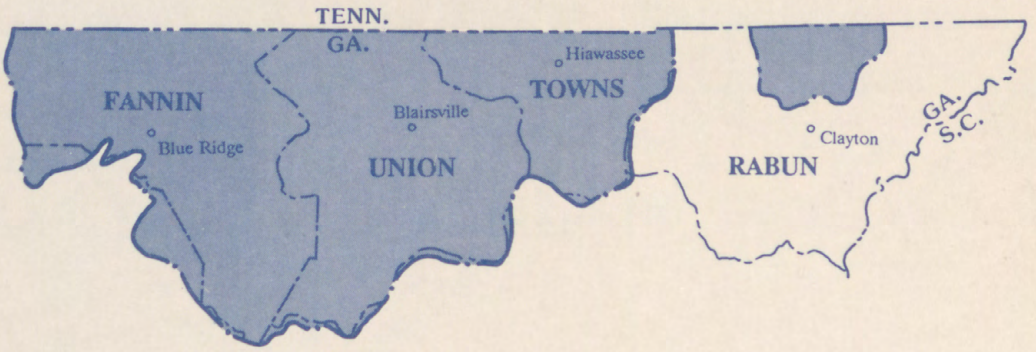
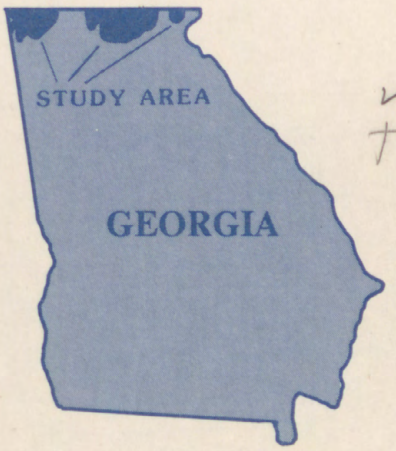
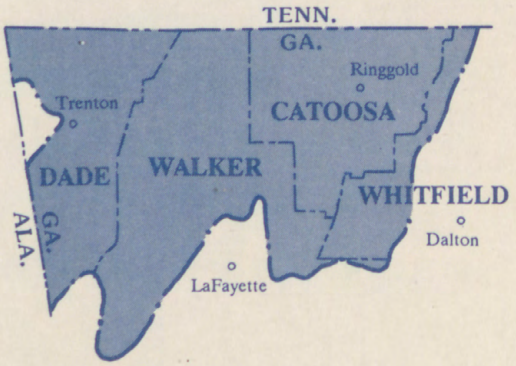
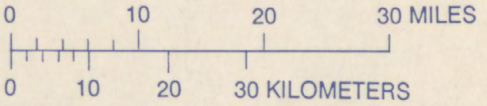
LOW-FLOW PROFILES OF THE TENNESSEE RIVER TRIBUTARIES IN GEORGIA









U.S. GEOLOGICAL SURVEY

Prepared in cooperation with the
GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

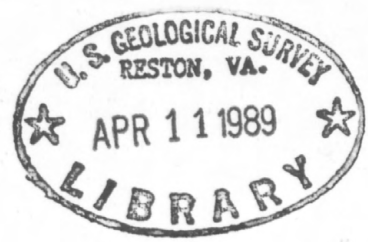
WATER-RESOURCES INVESTIGATIONS REPORT 88-4049

LOW-FLOW PROFILES OF THE TENNESSEE RIVER TRIBUTARIES IN GEORGIA

By R.F. Carter, E.H. Hopkins, and H.A. Perlman

U.S. GEOLOGICAL SURVEY

Water Resources Investigations Report 88-4049



Prepared in cooperation with the
GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Doraville, Georgia

1988

DEPARTMENT OF INTERIOR

DONALD PAUL HODEL, Secretary

U.S. GEOLOGICAL SURVEY

Dallas L. Peck, Director

For additional information
write to:

District Chief
U.S. Geological Survey
6481 Peachtree Industrial Boulevard
Suite B
Doraville, Georgia 30360

Copies of this report may
be purchased from:

U.S. Geological Survey
Books and Open-File Reports
Federal Center, Bldg. 810
Box 25454
Denver, Colorado 80225

CONTENTS

ILLUSTRATIONS

CONVERSION FACTORS

Factors for converting inch-pound units published herein to metric (International System) units are as follows:

Multiply inch-pound unit	By	To obtain metric unit
	Length	
mile (mi)	1.609	kilometer (km)
	Area	
square mile (mi^2)	2.590	square kilometer (km^2)
	Flow	
cubic foot per second (ft^3/s)	28.32	liter per second (L/s)
	28.32	cubic decimeter per second (dm^3/s)
	0.02832	cubic meter per second (m^3/s)

LOW-FLOW PROFILES OF THE TENNESSEE RIVER TRIBUTARIES IN GEORGIA

By

R.F. Carter, E.H. Hopkins, and H.A. Perlman

ABSTRACT

Low-flow information is provided for use in an evaluation of the capacity of streams to permit withdrawals or to accept waste loads without exceeding the limits of State water-quality standards. The report is the fifth of a series of reports presenting the results of a low-flow study of all stream basins north of the Fall Line in Georgia. It covers the part of the Tennessee River basin in the Blue Ridge and Piedmont provinces of Georgia.

The low-flow characteristic presented is the minimum average flow for 7 consecutive days with a 10-year recurrence interval (7Q10). The data are presented in tables and graphically as "low-flow profiles" (low flow plotted against distance along a stream channel) and as "drainage-area" profiles (drainage area plotted against distance along a stream channel). Low-flow profiles were constructed by interpolation or extrapolation from points of known low-flow data. Low-flow profiles are included for all stream reaches where low-flow data of sufficient accuracy are available to justify computation of the profiles. Drainage-area profiles are included for all stream basins larger than 5 square miles, except for those in a few remote areas.

Flow records were not adjusted for diversions or other factors that cause measured flows to represent other than natural flow conditions. The 7-day minimum-flow profile was omitted for stream reaches where natural flow was known to be altered significantly.

INTRODUCTION

The Tennessee River tributaries in Georgia generally have abundant flow and can be used for water supply and waste disposal. At present, the greatest uses occur in the western part of the basin. Some of the industries in that area depend on springs for water supply, but use streams for waste-water disposal. Flows of streams during drought periods are high compared with most other areas of the State. This is especially true in the eastern part of the basin in the Blue Ridge province. Low-flow characteristics have been only partly defined in previous studies.

This study was done to provide low-flow information, minimum average flow for 7 consecutive days with a 10-year recurrence interval (7Q10), for use in an evaluation of the capacity of these streams to permit withdrawals or to accept loads without exceeding the limits of State water-quality standards. The 7-day low flow will be less than the 7Q10 low flow at intervals averaging 10 years in length; or the probability is 10 percent that the 7-day low flow in any 1 year will be less than the 7-day, 10-year low flow. Techniques used to estimate the profiles also are presented in this report. The study was conducted by the U.S. Geological Survey as part of the cooperative water-resources program with the Georgia Department of Natural Resources, Environmental Protection Division.

Purpose and Scope

The purpose of this report is to present the results of a compilation of available low-flow data in the form of tables and "7Q10 flow profiles" (7Q10 flow plotted against distance along a stream channel) for all stream reaches of the Tennessee River tributaries where sufficient data of acceptable accuracy are available. Drainage-area profiles are included for all stream basins larger than 5 mi^2, except for those in a few remote areas.

This report is the fifth in a series of reports that will cover all stream basins north of the Fall Line in Georgia. It includes the parts of the Tennessee River basin in Georgia.

Availability of Low-Flow Data

Low-flow data for Georgia are available in Thomson and others (1956), Thomson and Carter (1963), Carter and Putnam (1978), Carter (1983a), and Cressler and others (1976). Low-flow characteristics for continuous-record gaging stations generally were completed by fitting log-Pearson Type III distributions to low-flow data. If the fit of these distributions was unsatisfactory, a graphical curve was fitted instead. Low-flow characteristics at low-flow partial-record stations were computed from least-squares regressions of flow at the partial-record station with concurrent flow at nearby complete-record gaging stations (Carter and Putnam, 1978). In addition, a large number of "miscellaneous" measurements made during times of base flow (no storm runoff) are available in published reports of the U.S. Geological Survey. These measurements were made over a period of many years at sites at which flow measurements are not made routinely. These measurements are used as a basis for low-flow-frequency estimates in response to requests for low-flow information at or near these sites. Frequency estimates at these miscellaneous-measurement sites were made using graphical regression methods described in Thomson and Carter (1963). Sites where zero flows were the only flows observed, were not included in the analyses because of the difficulty of estimating frequency of occurence of zero flows. For this study, the low-flow frequency characteristics were defined only for unregulated streams.

Revision of Published Low-Flow Data

Some reanalysis of the base data was made for this study, but no sites were were found where revision of a previously published 7Q10 seemed to be warranted.

METHOD OF ANALYSIS

For convenience in presentation, the Tennessee River basin was subdivided. Most subdivisions consist of a large tributary and its tributaries. The principal numbering system for these subdivisions is shown on the location map (fig. 1). The Tennessee River basin has 10 subdivisions numbered TR1 through TR10. Tributaries within these areas are identified by additional symbols. For example, a tributary to South Chickamauga Creek in the subdivision numbered TR7 is numbered TR7F, and a tributary to that stream is numbered TR7F1. The data are presented in both tabular and graphical forms. Roads are identified by name, highway number, or by a six-digit number based on the county numbering system shown on county maps published by the Georgia Department of Transportation and the Federal Information Processing System for counties. For example, Bryant Road (Road 206) in Whitfield County (County 313) is identified as 206-313, and Freeman Springs Road (Road 331) also in Whitfield County is identified as 331-313.

Some stream-mile data were provided by the Tennessee Valley Authority (written commun., 1987). Additional stream miles were measured by using an electronic digitizer on 7 1/2-minute topographic maps published by the U.S. Geological Survey. Mileages are presented as distances above the mouth of each stream.

Many drainage-area data were provided by the Tennessee Valley Authority (written commun., 1987). Additional drainage-area data were determined by using an electronic digitizer on 7 1/2-minute topographic maps. These data conform to acceptable accuracy standards established by the Federal Inter-Agency River Basin Committee (1951). Some additional drainage areas were determined by interpolation on short stream reaches where drainage-area increments were nearly proportional to increments of distance. Drainage areas determined by interpolation are identified by footnotes to the tables.

Drainage areas were plotted against stream miles to produce a drainage-area profile. Such profiles are needed to help define the low-flow profiles for reaches with little or no low-flow information (stream flow generally increases in proportion to drainage area, especially on the same stream). These drainage-area profiles are shown for all those streams draining more than 5 mi^2, except for those in a few remote areas.

Low flows, especially those as severe as 7-day, 10-year low flows, usually occur when drought conditions are prevalent over wide areas. At such times, local streams and major streams, for considerable parts of their lengths, tend to have flows of about the same recurrence interval, and the flow rates of various streams have definite interrelations. Low-flow rates for ungaged reaches of streams may be estimated, with some confidence, from concurrent flows at gaged sites on the same stream.

During base-flow periods, flow rates along a stream may be represented by flow profiles. Flows measured or estimated at various points along the stream are plotted against stream miles. These points are connected by a line. The line may contain "step-ups" that represent the inflow from tributaries. This was the principal method of analysis used. An advantage of this method is that the presentation permits easy detection of anomalies and elimination of major errors.

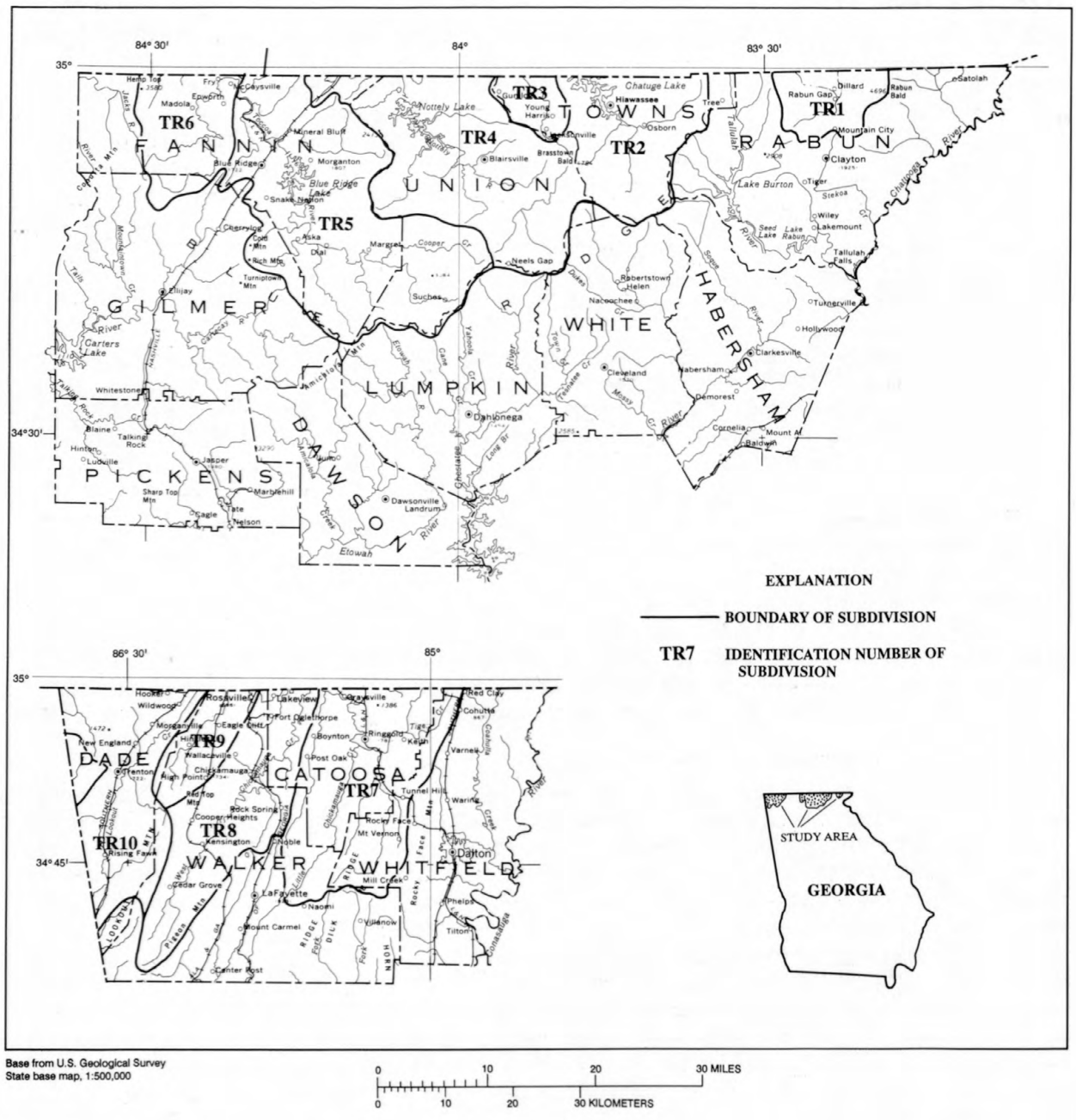


Figure 1.--Subdivisions of the Tennessee River basin, Georgia.

The low-flow profiles were started by plotting known 7Q10 against stream miles. These flows were then extrapolated or interpolated from the points of known 7Q10 by using the following procedures. Flows were extrapolated upstream on a drainage-area basis to a point having one-half the drainage area, and were similarly extrapolated downstream to a point having 1 1/2 times the drainage area. Where flow extrapolations from two adjacent points overlapped, interpolation on a drainage-area basis was done between the two points instead of extrapolation. The drainage-area profile was used in further defining the low-flow profiles, especially at tributary inflows.

Withdrawals from and return flows to a stream that vary with time are difficult to document, and pose a problem in evaluating the flow rate equivalent to a given frequency of occurrence. In this study, flow records were not adjusted for diversions. The 7-day, 10-year minimum-flow profile was omitted if the natural flow was altered significantly. For example, a flow profile is not shown for the Toccoa River downstream from Blue Ridge Lake.

LOW-FLOW PROFILES

Accuracy of Low-Flow Profiles

Low-flow profiles based on data from continuous-record gaging stations or from partial-record gaging stations that have six or more base-flow measurements probably are the most accurate of those included in this report. Low-flow estimates for such sites are based on regression relations that have a standard error of estimate of about 30 percent. Profiles based on these data are shown as a solid line, and estimated flow characteristics (7Q10) taken from them are rated as good. For the purpose of this report, no distinction is made between low-flow estimates based on data from complete-record gaging stations and low-flow estimates based on data from six or more base-flow measurements, although it is likely that the former are the most reliable.

Low-flow estimates for sites having three to five base-flow measurements are based on regression relations that have a standard error of estimate of about 50 percent. Profiles based on these regressions are shown as dashed lines, and estimated flow characteristics (7Q10) taken from them are rated as fair. Low-flow estimates based on one or two base-flow measurements are considered to be the least reliable, and are based on regression relations that have standard errors of estimate that may exceed 50 percent. Profiles based on these regressions are shown as dotted lines, and estimated flow characteristics (7Q10) taken from them are rated as poor.

Estimates of the magnitude of probable errors, as given here, are based on work by several investigators including Hardison and Moss (1972) and Stedinger and Thomas (1985).

Streamflow data also are subject to time-sampling error, which depends on whether flow data were observed in a period of above-average or below-average base-flow conditions. The average standard errors of estimate due to time-sampling errors can be computed by methods described by Hardison (1969).

Use of Low-Flow Profiles

This report can be used in conjunction with suitable maps, such as the county maps issued by the Georgia Department of Transportation or the 7 1/2-minute topographic quadrangles published by the U.S. Geological Survey. A map showing the study area, a list of tables and graphs, and an alphabetical index of streams are included to help the user find the table and the profile covering any particular stream. The user can determine quantity of flow from the tables if the desired site is at or near a listed landmark. If interpolation between landmark sites is required, it is most easily done by use of the graphical profiles. The profiles also show the relative accuracy of the available flow data. If no flow profile is available for the stream reach needed, then only the drainage area and the stream mile can be obtained from this report. Methods for estimating low-flow characteristics for ungaged streams were discussed in a previous report (Carter and Putnam, 1978).

The profiles have other uses in addition to providing 7Q10 flow information at a large number of sites. For example, if a user wants to determine storage requirements to supply certain draft rates, as described by Carter (1983b), the drainage-area data needed for that operation may be obtained from the profiles. The profiles may be used to appraise the amount and adequacy of data available for stream reaches that could develop water-quality problems. They are useful guides for planning future data-collection programs.

SELECTED REFERENCES

Carter, R.F., 1983a, Effects of the drought of 1980-81 on streamflow and on ground-water levels in Georgia: U.S. Geological Survey Water-Resources Investigations Report 83-4158, 46 p.

----- 1983b, Storage requirements for Georgia streams: U.S. Geological Survey Open-File Report 82-557, 65 p.

Carter, R.F., and Putnam, S.A., 1978, Low-flow frequency of Georgia streams: U.S. Geological Survey Water-Resources Investigations Report 77-127, 104 p.

Cressler, C.W., Franklin, M.A., and Hester, W.G., 1976, Availability of water supplies in northwest Georgia: Georgia Geological Survey Bulletin 91, 140 p.

Federal Inter-Agency River Basin Committee, 1951, Inter-agency coordination of drainage area data, Bulletin 4.

Hardison, C.H., 1969, Accuracy of streamflow characteristics, in Geological Survey Research, 1969: U.S. Geological Survey Professional Paper 650-D, p. D210-D214.

Hardison, C.H., and Moss, M.E., 1972, Accuracy of low-flow characteristics estimated by correlation of base-flow measurements: U.S. Geological Survey Water-Supply Paper 1542-B, 55 p.

Inman, E.J., 1971, Flow characteristics of Georgia streams: U.S. Geological Survey Open-File Report, 262 p.

Riggs, H.C., 1972, Low-flow investigations: U.S. Geological Survey Techniques of Water-Resources Investigations, Book 4, Chapter B1, 18 p.

Stedinger, J.R., and Thomas, W.O. Jr., 1985, Low-flow frequency estimation using base-flow measurements: U.S. Geological Survey Open-File Report 85-95, 22 p.

Thomson, M.T., and Carter, R.F., 1963, Effect of a severe drought (1954) on streamflow in Georgia: Georgia Geological Survey Bulletin 73, 97 p.

Thomson, M.T., Herrick, S.M., Brown, Eugene, and others, 1956, The availability and use of water in Georgia: Georgia Geological Survey Bulletin 65, 329 p.

SUPPLEMENTAL DATA--

TABULAR AND GRAPHICAL LOW-FLOW PROFILES

Explanation of Tables and Graphs

The following tables and graphs contain data for selected sites for the Tennessee River tributaries in Georgia. The tables contain a brief description of the locations of the sites. Tables and graphs show distances, in miles, from the mouths of the streams, drainage areas in square miles, and the minimum average rate of flow, in cubic feet per second, for 7 consecutive days, with a 10-year recurrence interval (7Q10), for sites where sufficient supporting data of acceptable accuracy are available. Unless otherwise noted, stream miles on streams presently submerged in a reservoir have been measured from their former mouths.

LIST OF TABLES AND GRAPHS

Pages

TR1 LITTLE TENNESSEE RIVER

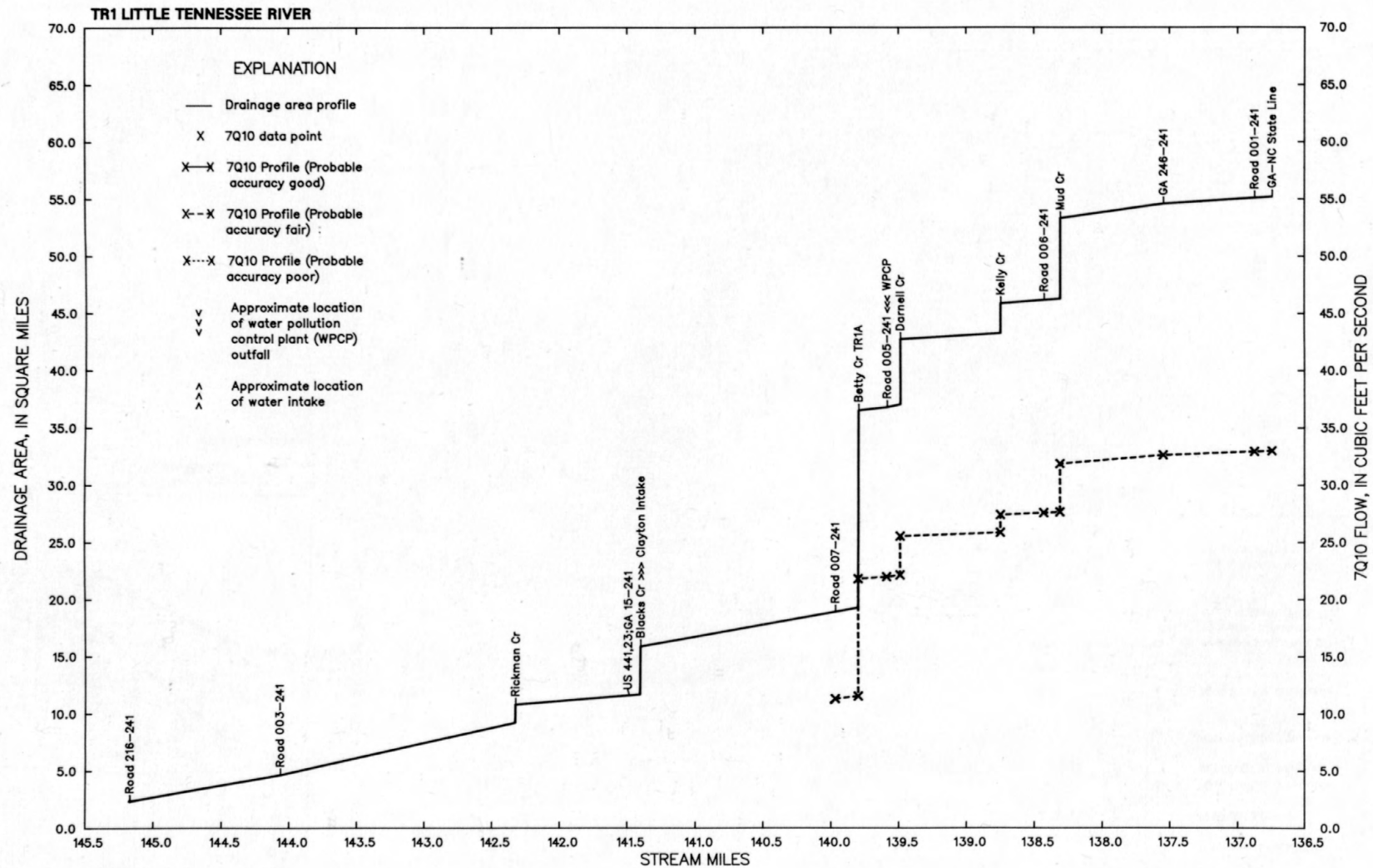
Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR1 LITTLE TENNESSEE RIVER (Rabun County)			
Keener Creek at Road 216-241	145.17	2.3	
Road 003-241 (Little Tennessee River begins)	144.06	4.6	
Above Rickman Creek	142.32	9.2	
Rickman Creek (on left)	142.32	(1.6)	
Below Rickman Creek	142.32	10.8	
US 441,23;GA 15-241	141.48	* 11.6	
Above Blacks Creek	141.40	11.7	
Blacks Creek (on right) >>> Clayton Intake	141.40	(4.2)	
Below Blacks Creek	141.40	15.9	
Road 007-241	139.96	* 18.9	11.2
Above Betty Creek	139.79	19.3	11.3
Betty Creek (on left) TR1A	139.79	(17.2)	(10.5)
Below Betty Creek	139.79	36.5	21.8
Road 005-241 <<< Burlington Mills WPCP	139.58	36.8	22.0
Above Darnell Creek	139.48	37.1	22.2
Darnell Creek (on right)	139.48	(5.7)	
Below Darnell Creek	139.48	42.8	25.6
Above Kelly Creek	138.74	43.3	25.9
Kelly Creek (on right)	138.74	(2.6)	
Below Kelly Creek	138.74	45.9	27.4
Road 006-241	138.42	* 46.2	27.6
Above Mud Creek	138.30	46.3	27.7
Mud Creek (on right)	138.30	(7.0)	
Below Mud Creek	138.30	53.3	31.9
GA 246-241	137.54	54.6	32.6
Road 001-241	136.87	* 55.1	32.9
Georgia-North Carolina State Line	136.74	55.2	33.0

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

TR1 TRIBUTARIES TO LITTLE TENNESSEE RIVER

Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR1A BETTY CREEK (Rabun County)			
Road 035-241	5.32	8.1	4.8
Road 222-241	4.69	8.5	5.1
Road 036-241	3.84	* 10.6	6.4
Road 009-241	3.00	* 12.7	7.6
Road 010-241	1.91	15.4	9.2
US 441,23;GA 15-241	.80	* 16.5	10.0
Mouth	0	17.2	10.5

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.


TR1 LITTLE TENNESSEE RIVER
EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
STREAM MILES
Road 216–241
Road 003–241
Rickman Cr
US 441;23;GA 15–241
Blacks Cr >>> Clayton Intake
Road 007–241
Betty Cr TR1A
Road 005–241 <<< WPCP
Darnell Cr
Kelly Cr
Road 006–241
Mud Cr
GA 246–241
Road 001–241
GA–NC State Line

EXPLANATION

- Drainage area profile
- X 7Q10 data point
- X—X 7Q10 Profile (Probable accuracy good)
- X--X 7Q10 Profile (Probable accuracy fair)
- X····X 7Q10 Profile (Probable accuracy poor)
- v v v Approximate location of water pollution control plant (WPCP) outfall
- ^ ^ ^ Approximate location of water intake

TR2 HIWASSEE RIVER

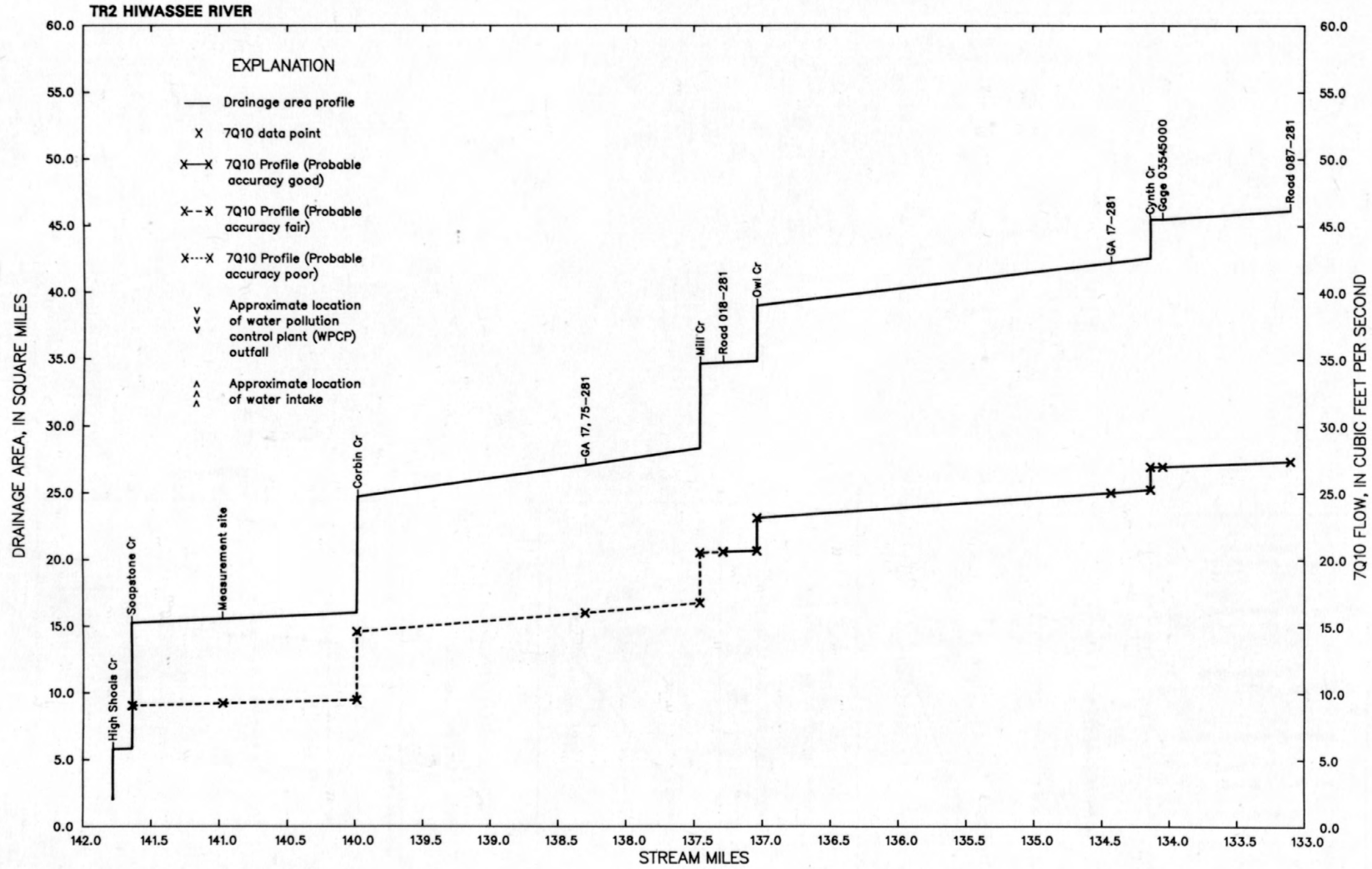
Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR2 HIWASSEE RIVER (Towns County)			
Note: Drainage area profile and table for Hiwassee River stop at Chatuge Lake backwaters. Hightower Creek, TR2A; Fodder Creek, TR2B; Hog Creek, TR2C; are now tributaries to Chatuge Lake.			
Above High Shoals Creek	141.78	2.1	
High Shoals Creek (on right)	141.78	(3.7)	
Below High Shoals Creek	141.78	5.8	
Above Soapstone Creek	141.64	5.8	
Soapstone Creek (on left)	141.64	(9.5)	
Below Soapstone Creek	141.64	15.3	9.0
Measurement site	140.97	* 15.6	9.2
Above Corbin Creek	139.98	16.0	9.5
Corbin Creek (on right)	139.98	(8.7)	
Below Corbin Creek	139.98	24.7	14.6
GA 17, 75-281	138.30	27.1	16.0
Above Mill Creek	137.45	28.4	16.8
Mill Creek (on right)	137.45	(6.3)	
Below Mill Creek	137.45	34.7	20.6
Road 018-281	137.28	* 34.8	20.6
Above Owl Creek	137.03	34.9	20.7
Owl Creek (on left)	137.03	(4.1)	
Below Owl Creek	137.03	39.0	23.1
GA 17-281	134.42	* 42.3	25.1
Above Cynth Creek	134.13	42.6	25.3
Cynth Creek (on right)	134.13	(2.9)	
Below Cynth Creek	134.13	45.5	27.0
Gage 03545000	134.04	45.5	27.0
Kelly Bridge Road 087-281	133.10	46.1	27.4

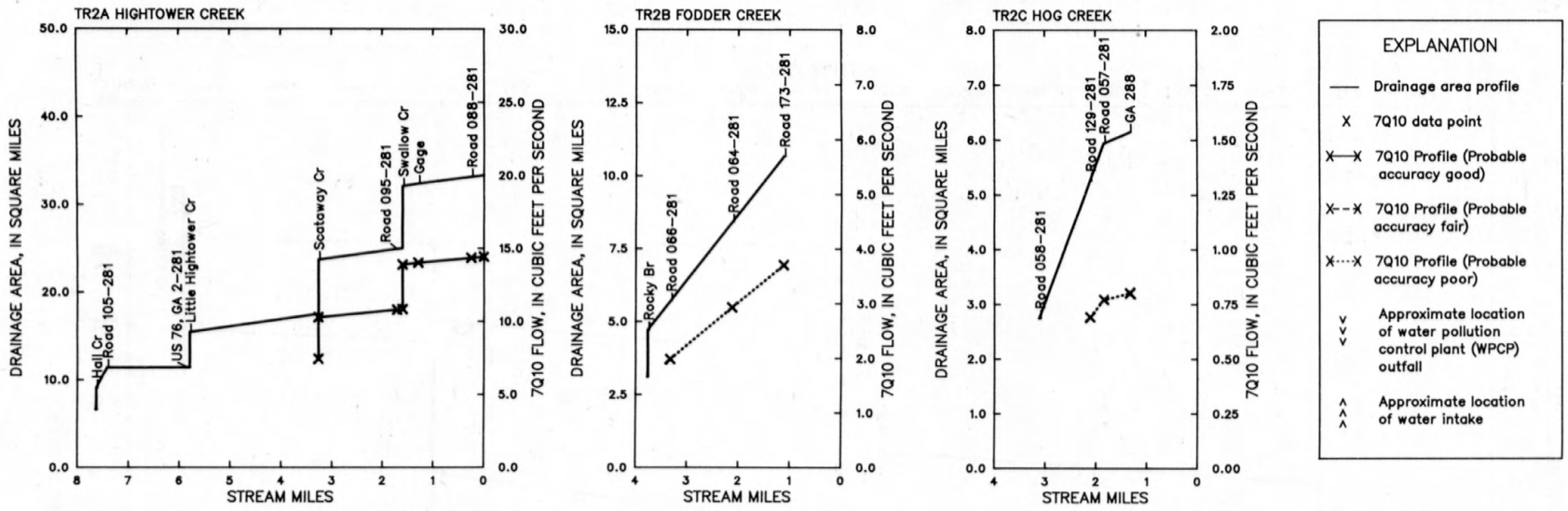
* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

TR2 TRIBUTARIES TO HIWASSEE RIVER AND CHATUGE LAKE

Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR2A HIGHTOWER CREEK (Towns County)			
Above Hall Creek	7.63	6.6	
Hall Creek (on right)	7.63	(2.5)	
Below Hall Creek	7.63	9.1	
Road 105-281	7.42	* 11.4	
US 76, GA 2-281	5.83	11.4	
Above Little Hightower Creek	5.80	11.4	
Little Hightower Creek (on left)	5.80	(4.0)	
Below Little Hightower Creek	5.80	15.4	
Above Scataway Creek	3.27	17.5	7.4
Scataway Creek (on right)	3.27	(6.2)	(2.9)
Below Scataway Creek	3.27	23.7	10.3
Road 095-281	1.71	* 24.9	10.8
Above Swallow Creek	1.60	25.0	10.8
Swallow Creek (on left)	1.60	(7.1)	
Below Swallow Creek	1.60	32.1	13.9
Gage 03545500	1.29	32.4	14.0
Road 088-281	.25	* 33.2	14.3
Mouth	0	33.3	14.4
TR2B FODDER CREEK (Towns County)			
Above Rocky Branch	3.76	3.1	
Rocky Branch (on left)	3.76	(1.6)	
Below Rocky Branch	3.76	4.7	
Road 066-281	3.32	* 5.7	2.0
Road 064-281	2.12	* 8.4	2.9
Fodder Creek Road 173-281	1.12	10.7	3.7
TR2C HOG CREEK (Towns County)			
Road 058-281	3.11	2.7	
Road 129-281	2.11	* 5.3	0.69
Road 057-281	1.84	5.9	.77
Sunny Side Road, GA 288-281	1.33	6.1	.80

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

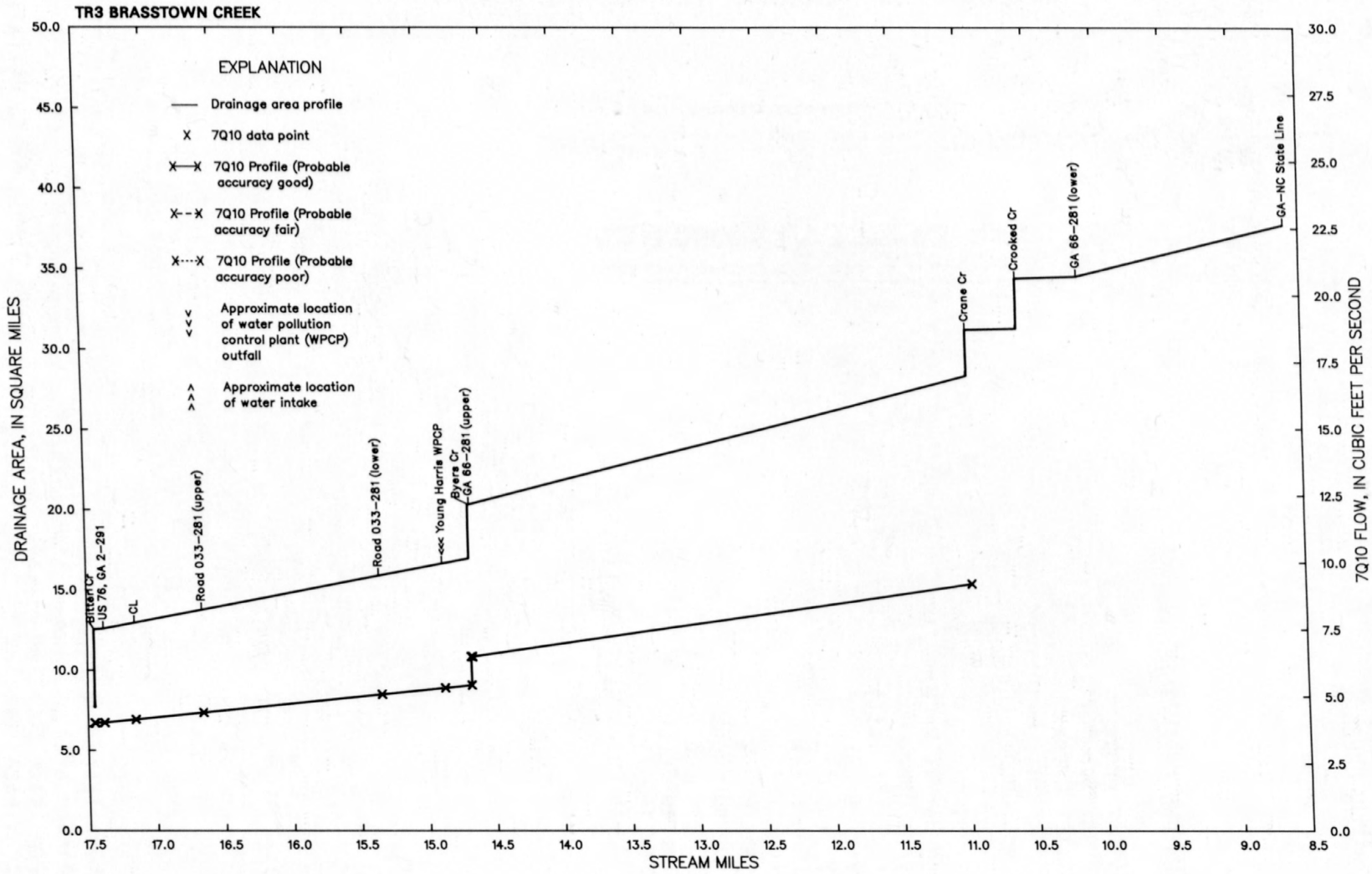

TR2 HIWASSEE RIVER
EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
STREAM MILES
High Shoals Cr
Soapstone Cr
Measurement site
Corbin Cr
GA 17, 75–281
Mill Cr
Road 018–281
Owl Cr
GA 17–281
Cynth Cr
Gage 03545000
Road 087–281
60.0
55.0
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
142.0
141.5
141.0
140.5
140.0
139.5
139.0
138.5
138.0
137.5
137.0
136.5
136.0
135.5
135.0
134.5
134.0
133.5
133.0


TR2A HIGHTOWER CREEK
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
STREAM MILES
Hall Cr
Road 105–281
US 76, GA 2–281
Little Hightower Cr
Scataway Cr
Road 095–281
Swallow Cr Gage
Road 088–281
TR2B FODDER CREEK
Rocky Br
Road 066–281
Road 064–281
Road 173–281
TR2C HOG CREEK
Road 058–281
Road 129–281
Road 057–281
GA 288
EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake

TR3 BRASSTOWN CREEK

Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR3 BRASSTOWN CREEK (Union, Towns Counties)			
Above Bitter Creek	17.45	7.7	
Bitter Creek (on left)	17.45	(4.9)	
Below Bitter Creek	17.45	12.6	4.0
US 76, GA 2-291	17.38	12.6	4.0
Union-Towns County Line	17.15	* 13.0	4.2
Road 033-281	16.65	* 13.8	4.4
Road 033-281	15.33	* 15.9	5.1
<<< Young Harris WPCP	14.86	* 16.6	5.3
Above Byers Creek	14.66	17.0	5.4
Byers Creek (on left)	14.66	(3.3)	
Below Byers Creek	14.66	20.3	6.5
GA 66-281 (upper)	14.65	20.3	6.5
Above Crane Creek	10.96	28.3	9.2
Crane Creek (on left)	10.96	(2.9)	
Below Crane Creek	10.96	31.2	
Above Crooked Creek	10.58	31.3	
Crooked Creek (on right)	10.58	(3.1)	
Below Crooked Creek	10.58	34.4	
GA 66-281 (lower)	10.13	34.5	
Georgia-North Carolina State Line	8.61	37.7	

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.


TR3 BRASSTOWN CREEK
EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
STREAM MILES
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
30.0
27.5
25.0
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
17.5
17.0
16.5
16.0
15.5
15.0
14.5
14.0
13.5
13.0
12.5
12.0
11.5
11.0
10.5
10.0
9.5
9.0
8.5
Bittari Cr
US 76, GA 2-291
CL
Road 033-281 (upper)
Road 033-281 (lower)
Young Harris WPCP
Byers Cr
GA 66-281 (upper)
Crane Cr
Crooked Cr
GA 66-281 (lower)
GA-NC State Line

TR4 NOTTELY RIVER

Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR4 NOTTELY RIVER (Union County)			
Above Helton Creek	52.49	5.2	
Helton Creek (on left)	52.49	(8.2)	
Below Helton Creek	52.49	13.4	
Road 295-291	51.84	* 14.5	
Road 185-291	49.89	* 17.9	
Above Stink Creek	49.66	18.3	
Stink Creek (on right) TR4A	49.66	(8.6)	
Below Stink Creek	49.66	26.9	
GA 180-291	49.59	* 27.0	
Above Town Creek	48.42	27.7	
Town Creek (on right) TR4B	48.42	(17.8)	
Below Town Creek	48.42	45.5	20.7
US 19, 129, GA 11-291	48.36	* 45.5	20.7
Above Wolf Creek	48.25	45.5	20.7
Wolf Creek (on left) TR4C	48.25	(9.3)	(5.0)
Below Wolf Creek	48.25	54.8	25.7
Road 149-291	47.43	* 55.8	26.2
Road 045-291	46.97	* 56.5	26.5
Above Crumby Creek	46.08	57.6	27.0
Crumby Creek (on left)	46.08	(3.5)	
Below Crumby Creek	46.08	61.1	28.6
Road 043-291	45.60	* 61.7	28.9
Above Arkaqua Creek	44.43	63.2	29.6
Arkaqua Creek (on right) TR4D	44.43	(11.6)	(4.4)
Below Arkaqua Creek	44.43	74.8	34.0
Road 040-291, Gage 03550500	44.32	74.8	34.0
US 76, GA 2-291 (in backwater)	39.81	83.4	37.9
Above Butternut Creek	39.61	83.6	38.0
Butternut Creek (on right) TR4E <<< WPCP	39.61	(11.9)	
Below Butternut Creek	39.61	95.5	
>>><<< Nottely Dam	21.12	214	
Gage 03553500	20.54	215	
Above Dooly Creek	19.88	215	
Dooley Creek (on left) TR4G	19.88	(7.9)	
Below Dooley Creek	19.88	223	
Georgia-North Carolina State Line	18.73	232	

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

TR4 TRIBUTARIES TO NOTTELY RIVER

Site	Stream miles		Drainage area (mi^2)	7Q10 (ft^3/s)
TR4A STINK CREEK (Union County)				
Above Rough Creek	3.30		2.4	
Rough Creek (on right)	3.30		(1.4)	
Below Rough Creek	3.30		3.8	
Road 107-291	3.14	*	3.9	
Road 108-291 (upper)	2.95	*	4.0	
Above Smell Creek	2.77		4.2	
Smell Creek (on left)	2.77		(1.5)	
Below Smell Creek	2.77		5.7	
Road 108-291 (lower)	1.40		7.4	
GA 348-291	.99	*	7.7	
Road 119-291	.74	*	8.0	
Road 185-291	.21	*	8.4	
Mouth	0		8.6	
TR4B TOWN (POWELL VALLEY) CREEK (Union County)				
Powell Valley Creek above Bald Creek	6.18		6.4	
Bald Creek (on right)	6.18		(4.2)	
Town Creek below Bald Creek	6.18		10.6	3.7
Road 106-291	4.85	*	12.6	4.4
Town Creek School Road 234-291	2.98		15.4	5.4
Road 103-291	1.55	*	16.6	5.8
Road 100-291	.12		17.8	6.2
Mouth	0		17.8	6.2
TR4C WOLF CREEK (Union County)				
Above West Fork Wolf Creek	1.40		4.5	
West Fork Wolf Creek (on left)	1.40		(3.4)	
Below West Fork Wolf Creek	1.40		7.9	4.3
Road 150-291	1.39	*	7.9	4.3
Road 225-291	.27		9.2	5.0
Mouth	0		9.3	5.0
TR4D ARKAQUA CREEK (Union County)				
Above Trackrock Creek	2.47		5.3	
Trackrock Creek (on right)	2.47		(4.3)	

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

TR4 TRIBUTARIES TO NOTTELY RIVER--Continued

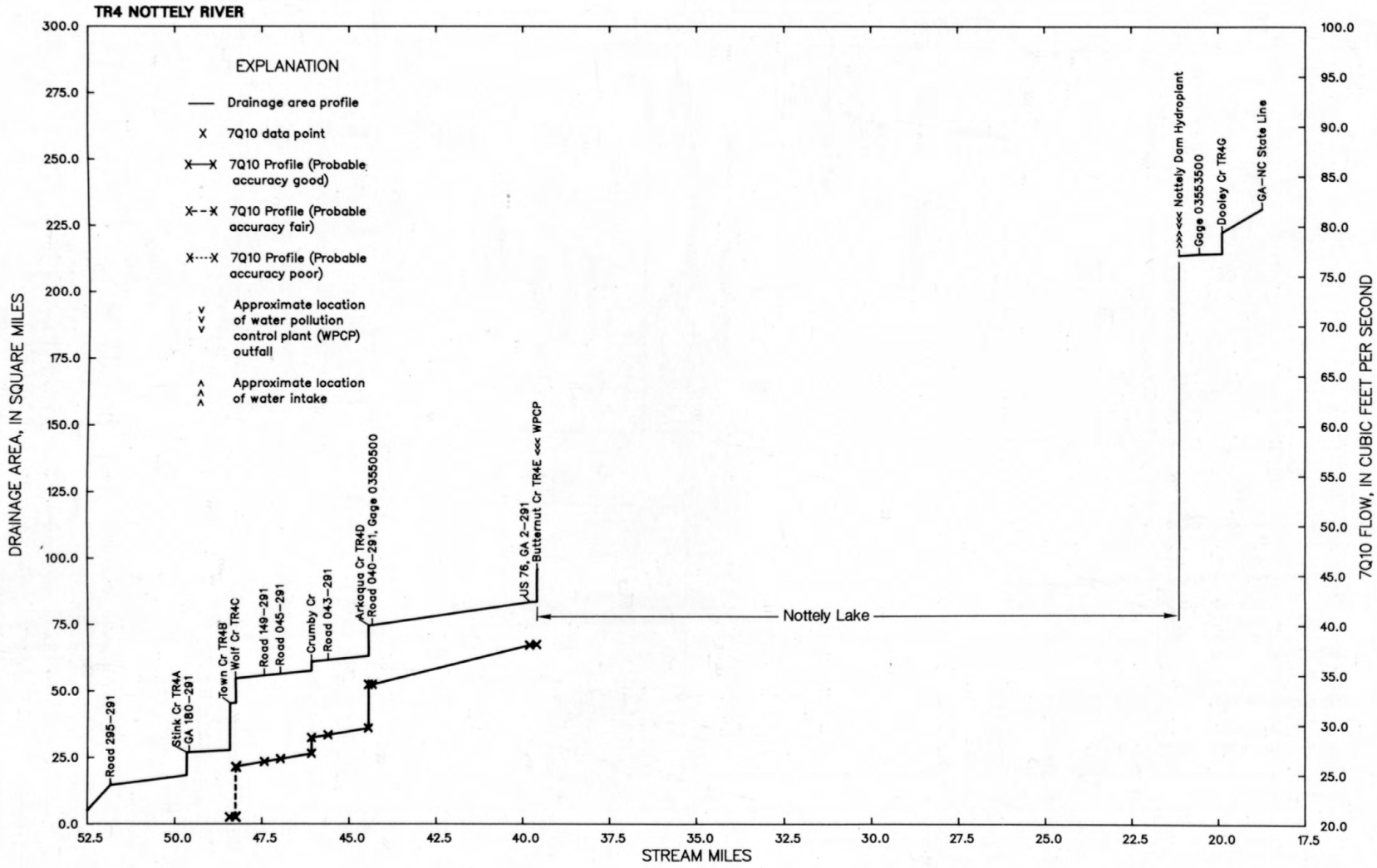
Site	Stream miles		Drainage area (mi^2)	7Q10 (ft^3/s)
TR4D ARKAQUA CREEK (Union County)--Continued				
Below Trackrock Creek	2.47		9.6	3.7
Road 234-291	1.94		9.9	3.8
US 19, 129, GA 11-291	.15		11.6	4.4
Mouth	0		11.6	4.4
TR4E BUTTERNUT CREEK (Union County)				
US 76, GA 2-291	5.40		0.99	
Road 276-291	5.12	*	1.5	
Road 023-291	4.68	*	2.2	
Road 025-291	3.97	*	3.4	
Above Scrougetown Creek	3.86		3.6	
Scrougetown Creek (on right)	3.86		(2.2)	
Below Scrougetown Creek	3.86		5.8	2.0
Road 024-291	3.24	*	7.3	2.5
Road 024-291	2.33	*	9.5	3.2
Road 019-291	1.80		10.7	3.7
US 19, 129, GA 11-291	1.21		11.1	3.8
<<< Blairsville WPCP	.87	*	11.3	3.9
Mouth	0		11.9	
TR4F COOSA CREEK (Union County)				
West Fork Coosa Creek above Hicks Gap Branch	6.04		2.1	
Hicks Gap Branch (on left)	6.04		(4.4)	
Below Hicks Gap Branch	6.04		6.5	
Road 143-291	5.22	*	7.5	
Road 144-291	4.89	*	7.9	
Above East Fork Coosa Creek	4.43		8.5	
East Fork Coosa Creek (on right)	4.43		(6.6)	
Below East Fork Coosa Creek (Coosa Creek begins)	4.43		15.1	5.7
Road 225-291	4.07	*	15.5	5.9
Road 037-291	3.02	*	16.7	6.3
Above Anderson Creek	2.10		17.8	6.7
Anderson Creek (on left)	2.10		(3.3)	
Below Anderson Creek	2.10		21.1	8.0
US 76, GA 2-291, gage 03551000	2.09		21.1	8.0

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

TR4 TRIBUTARIES TO NOTTELY RIVER--Continued

Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR4G YOUNGCANE CREEK (Union County)			
Above Watts Creek	10.74	7.3	3.9
Watts Creek (on left)	10.74	(2.7)	
Below Watts Creek	10.74	10.0	5.3
US 76, GA 2-291	10.60	10.2	5.4
Above Little Youngcane Creek	9.76	10.4	5.5
Little Youngcane Creek (on right)	9.76	(5.6)	
Below Little Youngcane Creek	9.76	16.0	7.8
Above Jones Creek	9.45	16.1	7.8
Jones Creek (on left)	9.45	(4.7)	
Below Jones Creek	9.45	20.8	9.7
Byers Road 129-291	6.68	* 22.4	10.4
Queens Gap Road 130-291	6.06	* 22.8	10.5
Above Lower Youngcane Creek	5.93	22.8	10.6
Lower Youngcane Creek (on left)	5.93	(4.1)	
Below Lower Youngcane Creek	5.93	26.9	12.2
Gage 03551500	5.34	27.6	12.5
Road 001-291	2.22	31.3	14.2
TR4H IVYLOG CREEK (Union County)			
Above Rogers Branch	6.02	6.8	
Rogers Branch (on right)	6.02	(1.4)	
Below Rogers Branch	6.02	8.2	
Road 236-291	5.40	* 9.1	3.5
Old Gum Log Road 067-291	5.38	* 9.1	3.5
Above Barnes Creek	3.19	12.1	4.7
Barnes Creek (on right)	3.19	(4.6)	
Below Barnes Creek	3.19	16.7	6.5
Gage 03552000	3.15	16.7	6.5
US 19, 129, GA 11 (in backwater)	2.42	18.5	7.2
TR4I DOOLEY CREEK (Union County)			
Above Mull Creek	3.79	3.4	
Mull Creek (on left)	3.79	(1.5)	
Below Mull Creek	3.79	4.9	2.1
Road 238-291	3.20	5.1	2.2
Road 226-291	1.11	7.2	3.1
Mouth	0	7.9	3.4

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.


TR4 NOTTELY RIVER
EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
STREAM MILES
Road 295–291
Stink Cr TR4A
GA 180–291
Town Cr TR4B
Wolf Cr TR4C
Road 149–291
Road 045–291
Crumby Cr
Road 043–291
Arkaqua Cr TR4D
Road 040–291, Gage 03550500
US 76, GA 2–291
Buttermut Cr TR4E <<< WPCP
Nottely Lake
>>><<< Nottely Dam Hydroplant
Gage 03553500
Dooley Cr TR4G
GA–NC State Line

DRAINAGE AREA, IN SQUARE MILES
TR4A STINK CREEK
Rough Cr
Road 107–291
Smell Cr
Road 108–291 (lower)
GA 348–291
Road 119–291
Road 185–291
STREAM MILES
DRAINAGE AREA, IN SQUARE MILES
TR4D ARKAQUA CREEK
Trackrock Cr
Road 234–291
US 19,129,GA 11
STREAM MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
DRAINAGE AREA, IN SQUARE MILES
TR4B TOWN CREEK
Bald Cr
Road 106–291
Road 234–291
Road 103–291
Road 100–291
STREAM MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
DRAINAGE AREA, IN SQUARE MILES
TR4E BUTTERNUT CREEK
US 76, GA 2–291
Road 276–291
Road 023–291
Road 025–291
Scrougetown Cr
Road 024–291
Road 024–291
Road 019–291
US 19,129,GA 11
<<< Blairsville WPCP
STREAM MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
DRAINAGE AREA, IN SQUARE MILES
TR4C WOLF CREEK
West Fork Wolf Cr
Road 150–291
Road 225–291
STREAM MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
DRAINAGE AREA, IN SQUARE MILES
TR4F COOSA CREEK
Hicks Gap Br
Road 143–291
Road 144–291
East Fork Coosa Cr
Road 225–291
Road 037–291
Anderson Cr
US 76, GA 2, Gage 03551000
STREAM MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake

DRAINAGE AREA, IN SQUARE MILES
TR4I DOOLEY CREEK
Mull Cr
Road 238–291
Road 226–291
STREAM MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
DRAINAGE AREA, IN SQUARE MILES
TR4G YOUNGCANE CREEK
Watts Cr
US 76, GA 2–291
Little Youngcane Cr
Jones Cr
Road 129–291
Road 130–291
Lower Youngcane Cr
Gage 03551500
Road 001
STREAM MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
DRAINAGE AREA, IN SQUARE MILES
TR4H IVYLOG CREEK
Rogers Br
Road 236–291
Road 067–291
Barnes Cr
Gage 03552000
US 19,129,GA 11
STREAM MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake

TR5 TOCCOA RIVER

Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR5 TOCCOA RIVER (Polk County, TN; Cherokee County, NC; Union, Fannin Counties, GA)			
Above Canada Creek	92.81	4.7	
Canada Creek (on right)	92.81	(12.2)	
Below Canada Creek	92.81	16.9	
Road 167-291	92.02	18.4	
Above Suches Creek	90.59	22.8	13.4
Suches Creek (on right) TR5A	90.59	(8.1)	(6.9)
Below Suches Creek	90.59	30.9	20.3
Road 165-291	90.43	* 31.0	20.3
Above Grizzle Creek	89.38	31.7	20.8
Grizzle Creek (on right)	89.38	(1.8)	
Below Grizzle Creek	89.38	33.5	22.0
Road 281-291	88.66	* 34.3	22.5
Above Davis Creek	87.89	35.2	23.1
Davis Creek (on right)	87.89	(2.0)	
Below Davis Creek	87.89	37.2	24.4
Road 281-291	87.07	38.1	25.0
Union-Fannin County Line	86.03	* 39.1	25.6
Above Cooper Creek	83.75	41.3	27.0
Cooper Creek (on right) TR5B	83.75	(39.5)	(22.4)
Below Cooper Creek	83.75	80.8	49.4
Rock Creek Rd (FS 69)	81.54	82.5	50.8
Above Rock Creek	78.48	85.3	53.3
Rock Creek (on left)	78.48	(16.1)	
Below Rock Creek	78.48	101	67.0
Above Skeenah Creek	75.20	104	68.9
Skeenah Creek (on right) TR5C	75.20	(11.1)	(7.4)
Below Skeenah Creek	75.20	115	76.3
Road 218-111	74.70	118	78.8
Above Pigeon Creek	74.27	118	78.9
Pigeon Creek (on right)	74.27	(4.9)	
Below Pigeon Creek	74.27	123	83.0
Road 008-111	73.10	*125	85.2
Above Noontootla Creek	72.38	127	86.5
Noontootla Creek (on left) TR5D	72.38	(33.3)	(24.3)
Below Noontootla Creek	72.38	160	111
Above Big Creek	71.08	162	112
Big Creek (on left)	71.08	(11.9)	

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR5 TOCCOA RIVER--Continued			
Below Big Creek	71.08	174	122
Gage 03558000	69.10	177	125
Above Stanley Creek	67.38	178	126
Stanley Creek (on left)	67.38	(6.5)	
Below Stanley Creek	67.38	184	130
Above Flat Creek	64.76	186	131
Flat Creek (on left)	64.76	(2.5)	
Below Flat Creek	64.76	189	133
Road 256-111 >>> Intake in Blue Ridge Lake	53.00	232	
Gage 03559000	52.50	233	
US 76, GA 2-111	52.36	*233	
Above Weaver Creek	52.26	234	
Weaver Creek (on left) TR5F	52.26	(6.0)	
Below Weaver Creek	52.26	240	
Road 091-111	50.30	*241	
L&N Railroad	50.25	*241	
Above Hemptown Creek	50.22	241	
Hemptown Creek (on right) TR5G	50.22	(46.3)	
Below Hemptown Creek	50.22	287	
Above Dry Creek	48.12	289	
Dry Creek (on left) <<< WPCP	48.12	(2.0)	
Below Dry Creek	48.12	291	
Road 195-111	45.86	*293	
Above Sugar Creek	44.51	294	
Sugar Creek (on left) TR5H	44.51	(15.2)	
Below Sugar Creek	44.51	309	
Above Hothouse Creek	42.68	311	
Hothouse Creek (on right) TR5I	42.68	(26.2)	
Below Hothouse Creek	42.68	337	
Above Wolf Creek	39.79	340	
Wolf Creek (on right) TR5J	39.79	(9.6)	
Below Wolf Creek	39.79	350	
>>> McCaysville Intake	39.62	*350	
L&N Railroad	39.49	*350	
<<< McCaysville WPCP	38.26	*351	
GA 5-111	37.96	*351	
Georgia-Tennessee State Line	37.86	351	

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

TR5 TRIBUTARIES TO TOCCOA RIVER AND BLUE RIDGE LAKE

Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR5A SUCHES CREEK (Union County)			
GA 60-291	2.12	6.8	5.8
Road 328-291	.25	8.0	6.8
Mouth	0	8.1	6.9
TR5B COOPER CREEK (Union, Fannin Counties)			
Above Logan Creek	13.96	7.5	
Logan Creek (on right)	13.96	(3.1)	
Below Logan Creek	13.96	10.6	
Above Bryant Branch	9.14	17.6	
Bryant Branch (on right)	9.14	(3.6)	
Below Bryant Branch	9.14	21.2	12.0
Road 228-291	6.86	* 23.1	13.0
Above Mulky Creek	6.47	23.4	13.2
Mulky Creek (on right)	6.47	(4.8)	
Below Mulky Creek	6.47	28.2	15.9
Union-Fannin County Line	4.19	* 29.6	16.8
Above Sea Creek	3.75	29.9	16.9
Sea Creek (on right)	3.75	(5.8)	
Below Sea Creek	3.75	35.7	20.2
Measurement site	1.13	38.9	22.0
GA 60-111	.49	* 39.3	22.2
Mouth	0	39.5	22.4
TR5C SKEENAH CREEK (Fannin County)			
Above Woody Branch	2.26	5.4	3.6
Woody Branch (on right)	2.26	(1.8)	
Below Woody Branch	2.26	7.2	4.9
GA 60-111	1.50	7.6	5.1
Road 011-111	.08	* 10.9	7.3
Mouth	0	11.1	7.4
TR5D NOONTOOTLA CREEK (Fannin County)			
Above Long Creek	11.34	6.3	
Long Creek (on right)	11.34	(2.1)	
Below Long Creek	11.34	8.4	

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

TR5 TRIBUTARIES TO TOCCOA RIVER AND BLUE RIDGE LAKE--Continued

Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR5D NOONTOOTLA CREEK (Fannin County)--Continued			
Above Lovingood Creek	6.79	14.0	
Lovingood Creek (on left)	6.79	(3.7)	
Below Lovingood Creek	6.79	17.7	12.9
Doublehead Gap Road 218-111	5.56	19.2	14.0
Road 008-111	1.43	30.9	22.5
Road 222-111	.62	32.9	24.0
Mouth	0	33.3	24.3
TR5E WILSCOT CREEK (Fannin County)			
Above Crawford Creek	4.90	5.4	
Crawford Creek (on left)	4.90	(2.8)	
Below Crawford Creek	4.90	8.2	
Road 015-111	3.97	* 9.4	
Road 004-111	1.57	12.4	
TR5F WEAVER CREEK (Fannin County)			
GA 256-111	1.63	4.8	2.0
US 76, GA 2-111	1.10	* 5.2	2.2
Road 089-111	.70	5.6	2.3
Mouth	0	6.0	2.5
TR5G HEMPTOWN CREEK (Fannin County)			
Above Bryan Creek	9.45	11.1	
Bryan Creek (on right) TR5G1	9.45	(10.6)	
Below Bryan Creek	9.45	21.7	11.7
Road 053-111	9.39	* 21.8	11.7
Road 058-111	7.97	* 22.8	12.3
Above Williams Branch	7.76	23.0	12.3
Williams Branch (on right)	7.76	(1.6)	
Below Williams Branch	7.76	24.6	13.2
Road 220-111	6.88	* 25.5	13.7
US 76, GA 2-111	5.67	* 26.9	14.5
Road 060-111	5.58	27.0	14.5
Road 225-111	5.03	* 27.9	15.0
Above Pounding Mill Creek	4.53	28.7	15.4

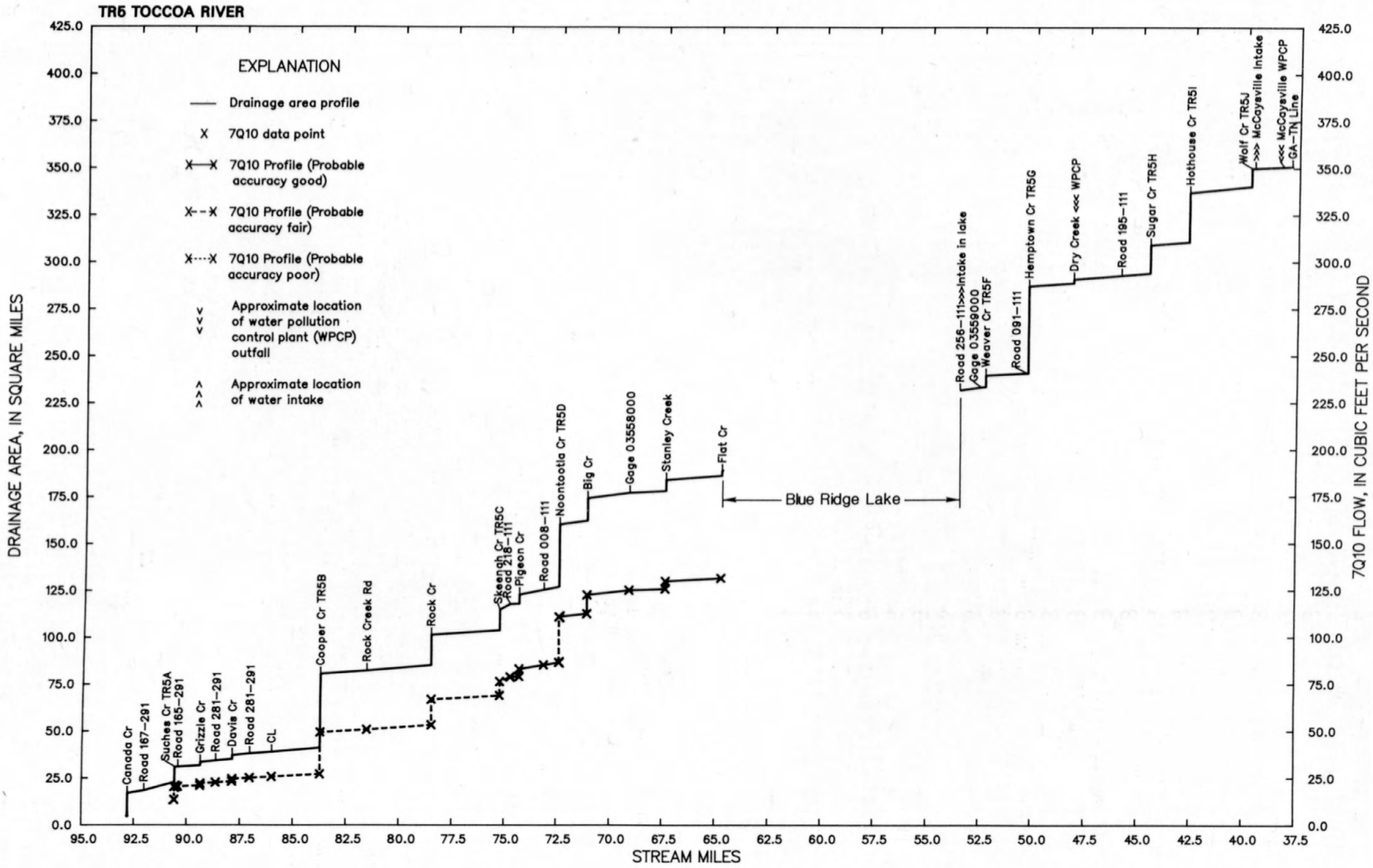
* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

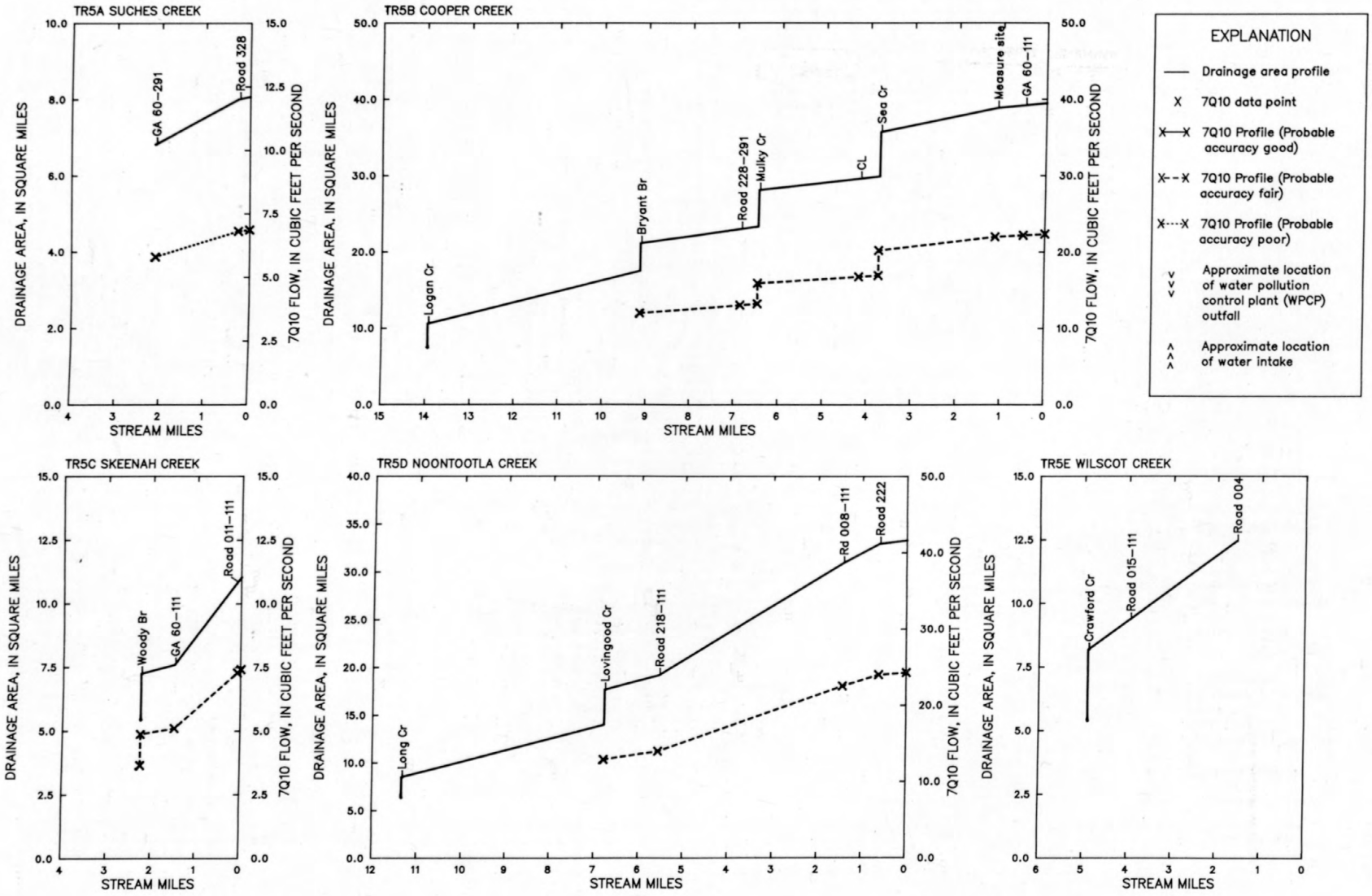
Site		Stream miles		Drainage area (mi^2)	7Q10 (ft^3/s)
TR5G HEMPTOWN CREEK (Fannin County)--Continued					
Pounding Mill Creek (on right)		4.53		(2.0)	
Below Pounding Mill Creek		4.53		30.7	16.5
Road 063-111		3.96	*	31.0	16.7
Above Cutcane Creek		1.90		32.5	17.5
Cutcane Creek (on right) TR5G2		1.90		(7.9)	
Below Cutcane Creek		1.90		40.4	21.7
Road 070-111		1.89	*	40.4	21.7
GA 60 Spur-111		1.31		40.8	22.0
GA 60-111		.95		40.9	22.0
L&N Railroad		.93	*	40.9	22.0
Above Young Stone Creek		.72		41.2	22.2
Young Stone Creek (on right)		.72		(4.8)	
Below Young Stone Creek		.72		46.0	24.8
Mouth		0		46.3	24.9
TR5G1 BRYAN CREEK (Fannin County)					
Above Galloway Branch		0.25		4.3	
Galloway Branch (on right)		.25		(6.3)	
Below Galloway Branch		.25		10.6	
US 76, GA 2-111		.05	*	10.6	
Mouth		0		10.6	
TR5G2 CUTCANE CREEK (Fannin County)					
Road 062-111		0.80		7.3	
Mouth		0		7.9	
TR5H SUGAR CREEK (Fannin County)					
Road 121-111		8.61		2.9	
Road 217-111		7.30	*	3.7	
GA 2, 5-111		7.03		3.9	
Road 232-111		4.74	*	6.0	
Road 230-111		3.85	*	6.8	
Above Little Sugar Creek		3.74		6.9	
Little Sugar Creek (on left)		3.74		(3.4)	
Below Little Sugar Creek		3.74		10.3	
Mouth		0		15.2	

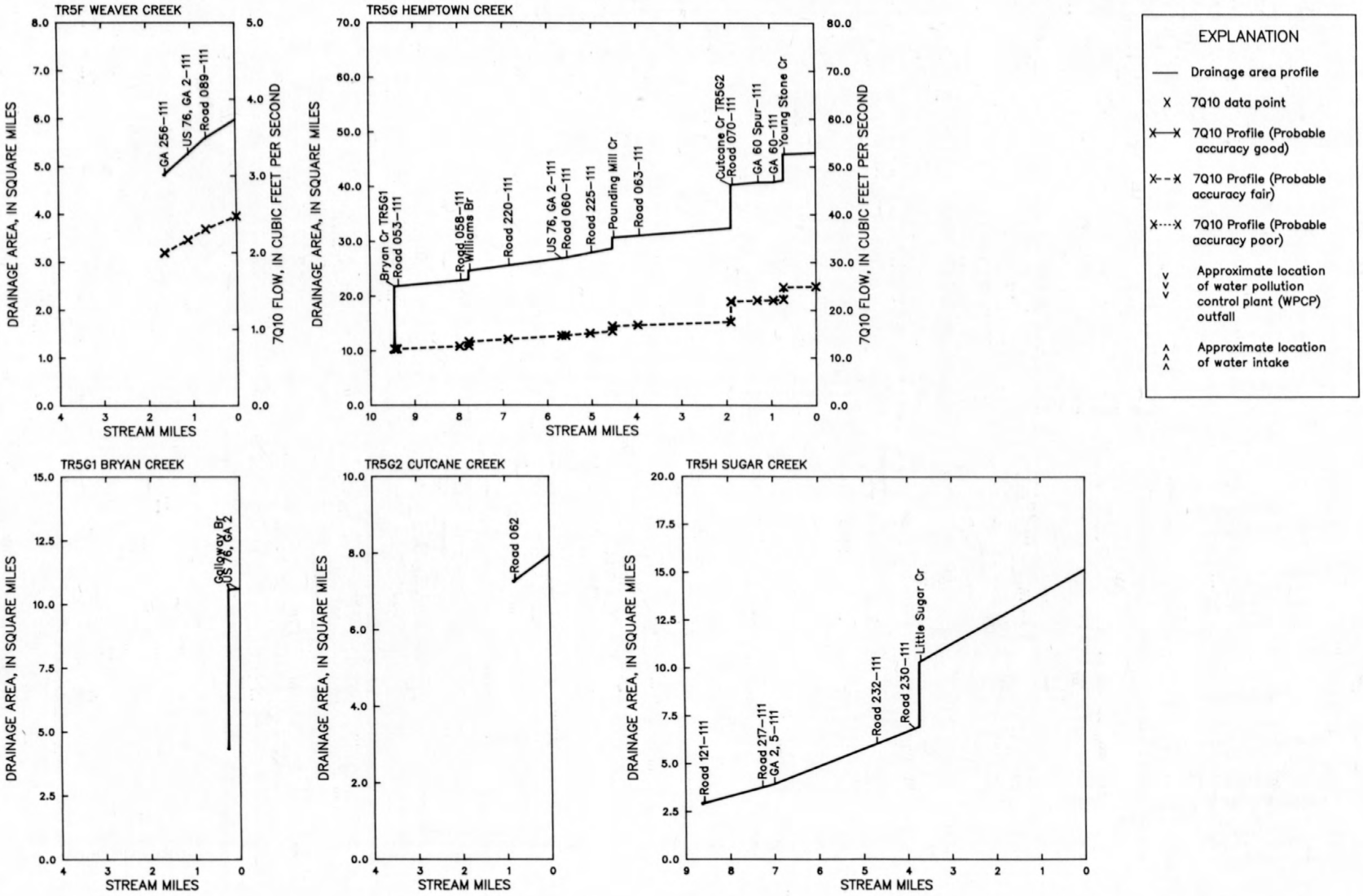
* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

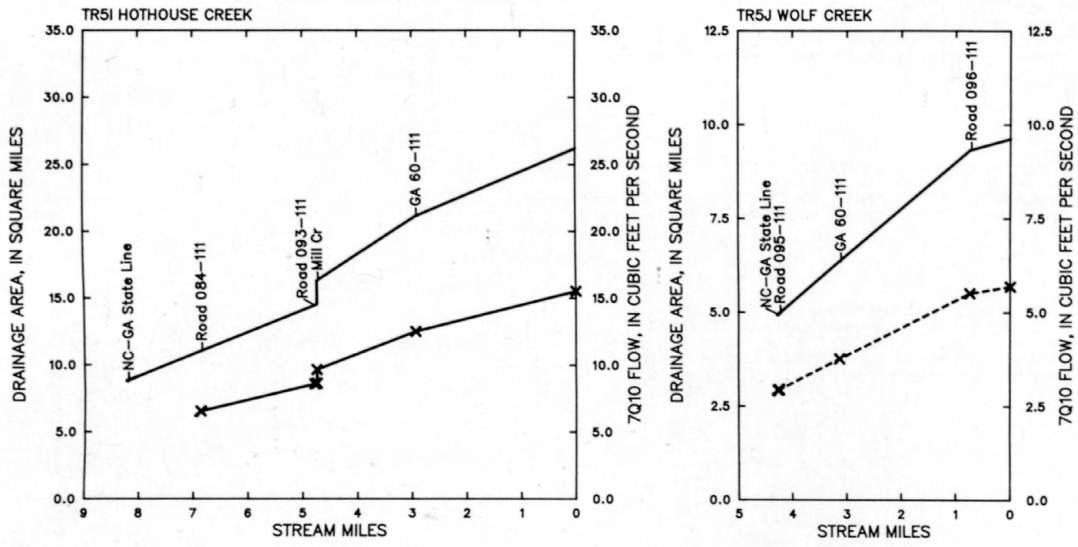
Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR5I HOTHOUSE CREEK (Cherokee County, NC; Fannin County, GA)			
North Carolina-Georgia State Line	8.22	8.8	
Road 084-111	6.88	* 11.0	6.5
Road 093-111	4.80	* 14.5	8.6
Above Mill Creek	4.76	14.5	8.6
Mill Creek (on right)	4.76	(1.8)	
Below Mill Creek	4.76	16.3	9.6
GA 60-111	2.95	21.1	12.5
Mouth	0	26.2	15.5
TR5J WOLF CREEK (Cherokee County, NC; Polk County, TN; Fannin County, GA)			
North Carolina-Georgia State Line	4.27	4.9	2.9
Road 095-111	4.25	* 5.0	2.9
GA 60-111	3.13	* 6.4	3.8
Road 096-111	.74	9.3	5.5
Mouth	0	9.6	5.7

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.


TR5 TOCCOA RIVER
EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
STREAM MILES
425.0
400.0
375.0
350.0
325.0
300.0
275.0
250.0
225.0
200.0
175.0
150.0
125.0
100.0
75.0
50.0
25.0
0.0
95.0
92.5
90.0
87.5
85.0
82.5
80.0
77.5
75.0
72.5
70.0
67.5
65.0
62.5
60.0
57.5
55.0
52.5
50.0
47.5
45.0
42.5
40.0
37.5
Canada Cr
Road 167–291
Suches Cr TR5A
Road 165–291
Grizzle Cr
Road 281–291
Davis Cr
Road 281–291
CL
Cooper Cr TR5B
Rock Creek Rd
Rock Cr
Skeenah Cr TR5C
Road 218–111
Pigeon Cr
Road 008–111
Noontootla Cr TR5D
Big Cr
Gage 03558000
Stanley Creek
Flat Cr
Blue Ridge Lake
Road 256–111>>>Intake in lake
Gage 03559000
Weaver Cr TR5F
Road 091–111
Hemptown Cr TR5G
Dry Creek <<< WPCP
Road 195–111
Sugar Cr TR5H
Hothouse Cr TR5I
Wolf Cr TR5J
>>> McCaysville Intake
<<< McCaysville WPCP
GA–TN Line


TR5A SUCHES CREEK
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
STREAM MILES
GA 60–291
Road 328
TR5B COOPER CREEK
Logan Cr
Bryant Br
Road 228–291
Mulky Cr
CL
Sea Cr
Measure site
GA 60–111
TR5C SKEENAH CREEK
Woody Br
GA 60–111
Road 011–111
TR5D NOONTOOTLA CREEK
Long Cr
Lovingood Cr
Road 218–111
Rd 008–111
Road 222
TR5E WILSCOT CREEK
Crawford Cr
Road 015–111
Road 004
EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake


TR5F WEAVER CREEK
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
STREAM MILES
GA 256–111
US 76, GA 2–111
Road 089–111
TR5G HEMPTOWN CREEK
Bryan Cr TR5G1
Road 053–111
Road 058–111
Williams Br
Road 220–111
US 76, GA 2–111
Road 060–111
Road 225–111
Pounding Mill Cr
Road 063–111
Cutcane Cr TR5G2
Road 070–111
GA 60 Spur–111
GA 60–111
Young Stone Cr
TR5G1 BRYAN CREEK
Galloway Br
US 76, GA 2
TR5G2 CUTCANE CREEK
Road 062
TR5H SUGAR CREEK
Road 121–111
Road 217–111
GA 2, 5–111
Road 232–111
Road 230–111
Little Sugar Cr
EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake


TR5I HOTHOUSE CREEK
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
STREAM MILES
NC–GA State Line
Road 084–111
Road 093–111
Mill Cr
GA 60–111
TR5J WOLF CREEK
NC–GA State Line
Road 095–111
GA 60–111
Road 096–111
EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake

TR6 FIGHTING TOWN CREEK

Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR6 FIGHTING TOWN CREEK (Gilmer, Fannin Counties)			
Above Dugger Branch	29.07	1.4	
Dugger Branch (on left)	29.07	(.97)	
Below Dugger Branch	29.07	2.4	
Road 207-111, Gilmer-Fannin County Line	23.26	* 8.8	
Road 125-111	21.87	* 10.3	
Road 126-111	19.08	* 13.4	
Above McClure Creek	17.82	14.8	
McClure Creek (on left)	17.82	(4.9)	
Below McClure Creek	17.82	19.7	12.3
GA 2-111	17.53	19.8	12.4
Above Little Fightingtown Creek	15.90	20.4	12.8
Little Fightingtown Creek (on left) TR6A	15.90	(14.7)	
Below Little Fightingtown Creek	15.90	35.1	22.0
Road 144-111	13.19	36.7	23.0
Road 150-111	10.38	40.0	25.1
Road 159-111	8.16	43.3	27.1
Above Higdon Creek	7.85	43.8	27.5
Higdon Creek (on left) TR6B	7.85	(16.4)	(8.0)
Below Higdon Creek	7.85	60.2	35.5
Gage 03560000	.90	70.9	42.0
Road 159-111	.61	* 71.2	42.2
Georgia-Tennessee State Line	.35	71.5	42.4
Mouth	0	72.1	42.7

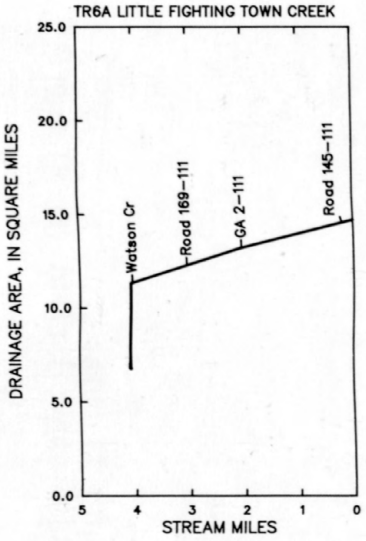
* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

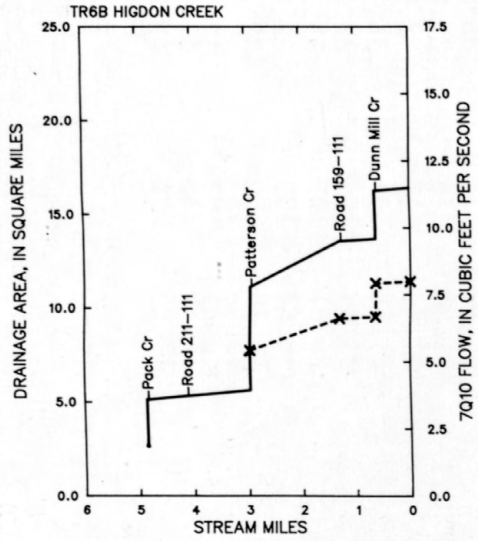
TR6 TRIBUTARIES TO FIGHTING TOWN CREEK

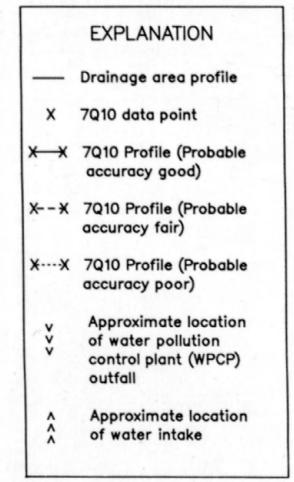
Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR6A LITTLE FIGHTING TOWN CREEK (Fannin County)			
Above Watson Creek	4.07	6.8	
Watson Creek	4.07	(4.5)	
Below Watson Creek	4.07	11.3	
Road 169-111	3.07	* 12.2	
GA 2-111	2.07	13.2	
Road 145-111	.20	* 14.6	
Mouth	0	14.7	
TR6B HIGDON CREEK (Fannin County)			
Above Pack Creek	4.85	2.6	
Pack Creek	4.85	(2.5)	
Below Pack Creek	4.85	5.1	
Road 211-111	4.12	* 5.3	
Above Patterson Creek	2.95	5.6	
Patterson Creek	2.95	(5.5)	
Below Patterson Creek	2.95	11.1	5.4
Road 159-111	1.29	13.6	6.6
Above Dunn Mill Creek	.63	13.7	6.7
Dunn Mill Creek	.63	(2.6)	
Below Dunn Mill Creek	.63	16.3	7.9
Mouth	0	16.4	8.0

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

TR6 FIGHTING TOWN CREEK
EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
STREAM MILES
Dugger Br
Road 207-111, GL
Road 125-111
Road 126-111
McClure Cr GA 2-111
Little Fightingtown Cr TR6A
Road 144-111
Road 150-111
Road 159-111
Higdon Cr TR6B
Gage 03560000 Road 159-111 GA-TN State Line


TR6A LITTLE FIGHTING TOWN CREEK
DRAINAGE AREA, IN SQUARE MILES
25.0
20.0
15.0
10.0
5.0
0.0
Watson Cr
Road 169—111
GA 2—111
Road 145—111
5
4
3
2
1
0
STREAM MILES


TR6B HIGDON CREEK
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
25.0
20.0
15.0
10.0
5.0
0.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
Pack Cr
Road 211—111
Patterson Cr
Road 159—111
Dunn Mill Cr
6
5
4
3
2
1
0
STREAM MILES


EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake

TR7 SOUTH CHICKAMAUGA CREEK

Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR7 SOUTH CHICKAMAUGA CREEK (Walker, Whitfield, Catoosa Counties)			
East Chickamauga TR7A and Tiger TR7B Creeks join	34.84	114	17.8
L&N Railroad	34.80	*114	17.8
L&N Railroad	34.12	*114	18.0
L&N Railroad	33.22	*115	18.2
>>> Ringgold Intake	32.80	*116	18.3
Above Little Chickamauga Creek	31.60	117	18.6
Little Chickamauga Creek (on left) TR7C	31.60	(48.3)	(15.5)
Below Little Chickamauga Creek	31.60	165	34.1
Road 382-047	31.59	*165	34.1
GA 151-047 Spur	31.26	*166	34.6
US 41,76, GA 3,151-047	30.55	168	35.6
<<< Ringgold WPCP	29.50	*169	35.6
Above Kettle Creek	24.33	171	35.7
Kettle Creek (on right)	24.33	(2.9)	
Below Kettle Creek	24.33	174	35.8
Above Hurricane Creek	21.56	176	35.8
Hurricane Creek (on right) TR7D	21.56	(17.6)	(.93)
Below Hurricane Creek	21.56	194	36.7
L&N Railroad	21.43	*194	36.8
L&N Railroad	20.07	*197	36.9
Graysville Rd 381-047	19.54	198	37.0
Above Peavine Creek	17.79	200	37.3
Peavine Creek (on left) TR7E	17.79	(34.9)	(4.6)
Below Peavine Creek	17.79	235	41.9
Georgia-Tennessee State Line	17.26	235	42.0

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

TR7 TRIBUTARIES TO SOUTH CHICKAMAUGA CREEK

Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR7A EAST CHICKAMAUGA CREEK (Walker, Whitfield, Catoosa Counties)			
Road 336-313	20.03	4.5	
Above Hayes Branch	19.45	4.9	
Hayes Branch (on right)	19.45	(1.4)	
Below Hayes Branch	19.45	6.3	
GA 201-313	18.42	7.7	
Freeman Springs Rd 331-313	15.96	* 13.9	4.1
GA 201-313	15.58	14.8	4.4
Above Cove Creek	15.28	15.0	4.5
Cove Creek (on left)	15.28	(3.5)	
Below Cove Creek	15.28	18.5	5.5
Road 336-313	14.73	* 18.9	5.6
Above Hopkins Branch	12.94	20.2	6.0
Hopkins Branch (on right) TR7A1	12.94	(4.1)	(.29)
Below Hopkins Branch	12.94	24.3	6.3
Houston Valley Road 326-313	12.92	24.3	6.3
Above Bell Branch	12.20	24.6	6.3
Bell Branch (on left)	12.20	(4.2)	
Below Bell Branch	12.20	28.8	6.7
Whitfield-Catoosa County Line	9.33	* 31.1	6.9
Road 197-047	8.94	* 31.4	7.0
Above Tanyard Creek	7.64	32.5	7.1
Tanyard Creek (on right) TN7A2	7.64	(9.6)	(.93)
Below Tanyard Creek	7.64	42.1	8.0
Road 196-047	7.17	* 43.0	8.1
Road 389-047	4.72	* 47.5	8.7
Above Dry Creek	4.09	48.7	8.9
Dry Creek (on left) TR7A3	4.09	(11.9)	(.24)
Below Dry Creek	4.09	60.6	9.1
L&N Railroad	2.43	* 63.1	9.6
L&N Railroad	1.73	* 64.2	9.8
Road 193-047	1.51	* 64.6	9.8
Interstate 75	.92	* 65.5	10.0
L&N Railroad	.77	* 65.7	10.0
Road 281-047	.37	66.3	10.1
Mouth	0	66.4	10.1

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

Site	Stream miles		Drainage area (mi^2)	7Q10 (ft^3/s)
TR7A1 HOPKINS BRANCH (Whitfield County)				
GA 201-313	1.53		2.6	0.19
Abandoned Road	.14		4.1	.29
Mouth	0		4.1	.29
TR7A2 TANYARD CREEK (Whitfield, Catoosa Counties)				
Above Mt.Vernon Creek	1.12		5.2	0.51
Mt.Vernon Creek (on left)	1.12		(3.1)	
Below Mt.Vernon Creek	1.12		8.3	.80
Road 307-313	.61	*	8.9	.86
Whitfield-Catoosa County Line	.20	*	9.4	.91
Mouth	0		9.6	.93
TR7A3 DRY CREEK (Whitfield, Catoosa Counties)				
Road 326-313	6.74		3.7	
Whitfield-Catoosa County Line	5.62	*	5.2	
Road 257-047	1.06		11.3	0.23
Mouth	0		11.9	.24
TR7B TIGER CREEK (Bradley County, TN; Whitfield, Catoosa Counties, GA)				
Dry Branch (head of Tiger Creek) at GA-TN line	13.49		1.2	
Southern Railway	12.71	*	2.0	
Appison Road 202-313	12.33	*	2.3	
Road 019-313	11.45		3.1	
Bryant Road 206-313	10.30	*	4.5	
Lowe Road 209-313 (Tiger Creek begins)	9.03		6.1	
Above Creek	8.82		6.2	
Creek (on left)	8.82		(2.2)	
Below Creek	8.82		8.4	
Whitfield-Catoosa County Line	8.06	*	9.0	
Road 221-047	7.79	*	9.2	
Above Little Creek	7.69		9.3	
Little Creek (on right) TR7B1	7.69		(6.6)	
Below Little Creek	7.69		15.9	
Above Little Tiger Creek	6.20		18.1	
Little Tiger Creek (on left)	6.20		(4.3)	

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

Site	Stream miles		Drainage area (mi^2)	7Q10 (ft^3/s)
TR7B TIGER CREEK (Bradley County, TN; Whitfield, Catoosa Counties, GA)--Cont'd				
Below Little Tiger Creek	6.20		22.4	3.6
Road 385-047	5.37	*	23.4	3.8
Above Sugar Creek	4.97		23.9	3.9
Sugar Creek (on right) TR7B2	4.97		(8.4)	
Below Sugar Creek	4.97		32.3	5.2
Above Broom Branch	3.89		33.4	5.4
Broom Branch (on right)	3.89		(2.9)	
Below Broom Branch	3.89		36.3	5.9
GA 2-047	1.42		39.5	6.4
US 76, 41, GA 3-047	.34		43.2	7.0
Above Cherokee Branch	.17		43.2	7.0
Cherokee Branch (on right)	.17		(4.1)	
Below Cherokee Branch	.17		47.3	7.7
Mouth	0		47.3	7.7
TR7B1 LITTLE (CAT) CREEK (Catoosa County)				
Cat Creek at Tennessee-Georgia State Line	4.38		2.3	
Road 215-047	3.82	*	3.0	
Catoosa-Whitfield County Line	3.27	*	3.7	
Road 019-313	2.81		4.3	
Road 219-047	1.79	*	4.9	
Above Creek	1.21		5.3	
Creek (on right)	1.21		(.69)	
Below Creek (Little Creek begins)	1.21		6.0	
Road 223-047	.04	*	6.6	
Mouth	0		6.6	
TR7B2 SUGAR CREEK (Catoosa County)				
Sugar Creek at Tennessee-Georgia line	5.28		1.3	
Road 215-047	4.76	*	2.1	
Road 385-047	3.60	*	3.9	
Above Creek	3.29		4.4	
Creek (on right)	3.29		(1.2)	
Below Creek	3.29		5.6	
Spivey Road 227-047	.70	*	7.8	
Road 225-047	.60	*	7.9	
Mouth	0		8.4	

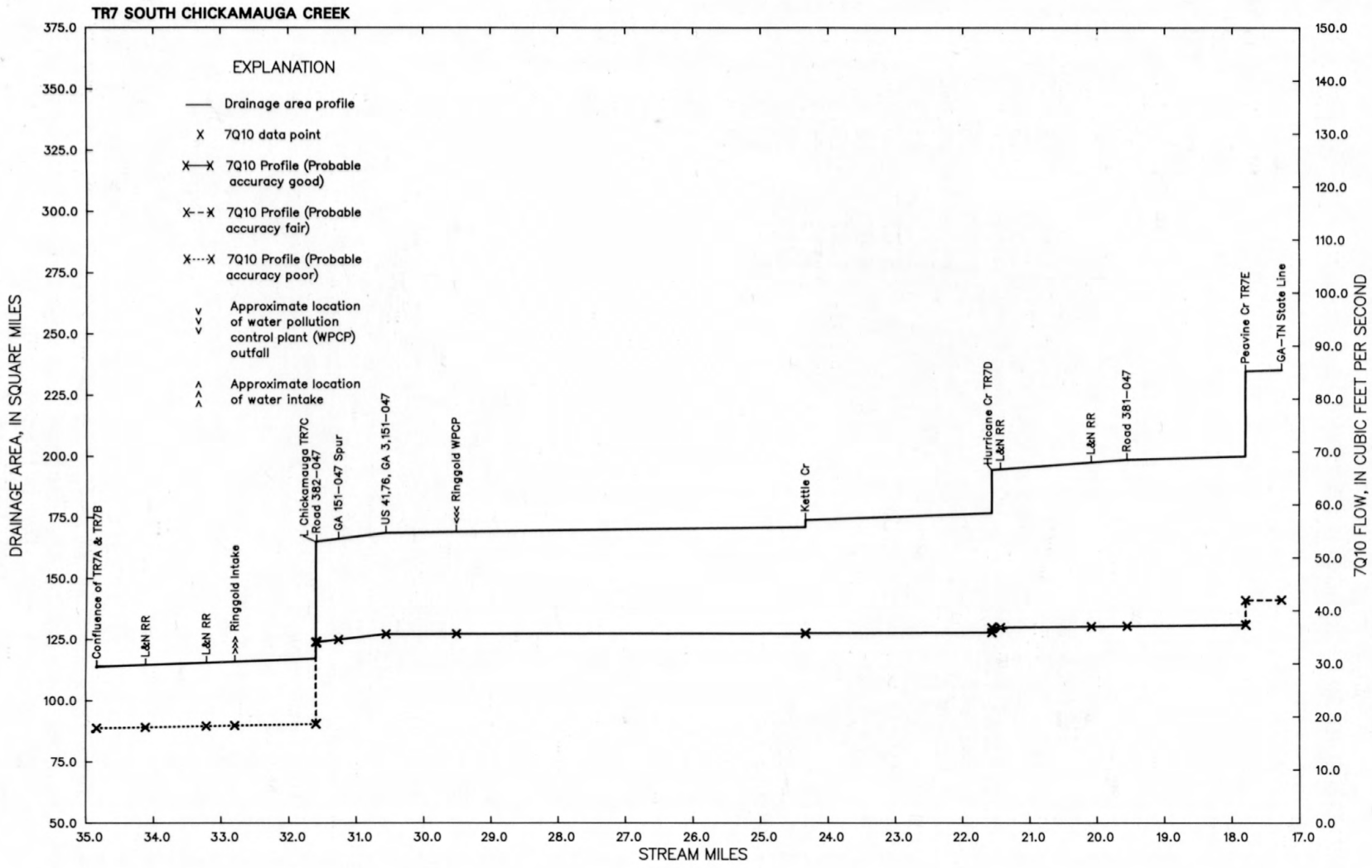
* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR7C LITTLE CHICKAMAUGA CREEK (Walker, Catoosa Counties)			
GA 95-295	19.29	3.5	
Above Creek	19.23	3.5	
Creek (on right)	19.23	(2.9)	
Below Creek	19.23	6.4	
Above Creek	18.76	6.5	
Creek (on left)	18.76	(4.7)	
Below Creek	18.76	11.2	
Road 656-295	17.39	* 14.3	
Walker-Catoosa County Line	16.46	* 16.5	
Road 162-047	15.99	17.5	
Road 159-047	14.62	* 21.4	
Above Coulter Creek	13.75	23.8	
Coulter Creek (on left)	13.75	(3.1)	
Below Coulter Creek	13.75	26.9	8.6
Road 387-047	12.68	29.5	9.5
Road 189-047	10.15	* 34.2	11.0
GA 151-047	9.13	36.1	11.6
Above Creek	7.94	37.2	11.9
Creek (on left)	7.94	(3.6)	
Below Creek	7.94	40.8	13.1
Road 179-047	3.32	* 45.2	14.5
Road 259-047	1.03	* 47.3	15.2
Interstate 75	.58	* 47.7	15.3
Mouth	0	48.3	15.5
TR7D HURRICANE CREEK (Hamilton County, TN; Catoosa County, GA)			
Tennessee-Georgia State Line	2.78	13.9	0.73
Road 243-047	1.40	* 15.9	.84
L&N Railroad	.89	* 16.6	.88
TVA measuring site	.23	17.6	.93
Mouth	0	17.6	.93

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

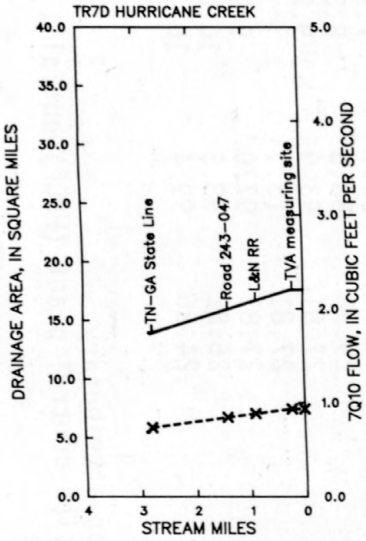
Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR7E PEAVINE CREEK (Walker, Catoosa Counties)			
GA 95-295	19.75	4.1	
Walker-Catoosa County Line	15.90	* 8.2	
Road 154-295	15.69	* 8.5	
Road 387-295	11.50	13.0	
Poplar Springs Road 155-047	9.98	20.4	2.7
Boynton Drive 382-047	6.69	25.2	3.3
Old Mill Road 002-047	5.70	* 25.9	3.4
Above Creek	5.67	25.9	3.4
Creek (on right)	5.67	(2.3)	
Below Creek	5.67	28.2	3.7
GA 2-047	5.57	* 28.3	3.7
Interstate 75	3.12	* 31.7	4.1
US 76, 41; GA 3, 151-047	2.30	* 32.8	4.3
Wooten Road 024-047	1.17	34.3	4.5
Mouth	0	34.9	4.6

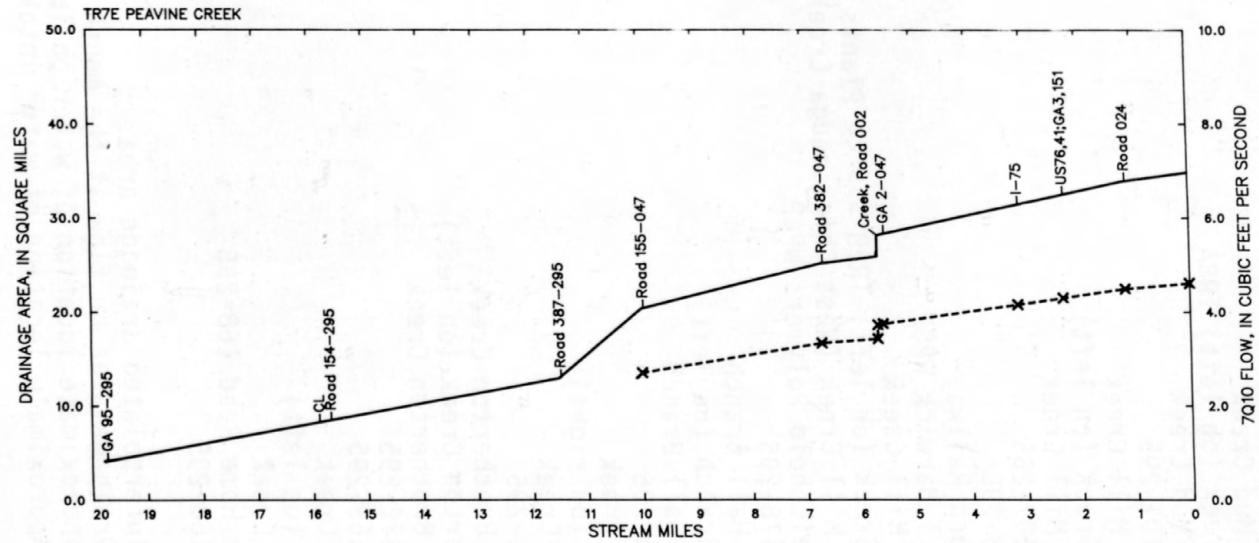
* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

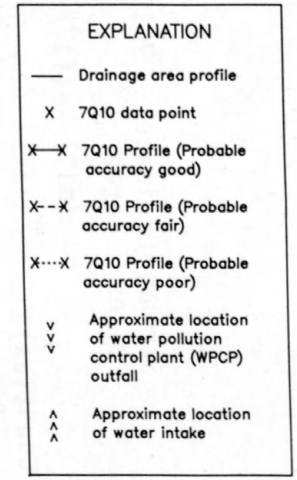

TR7 SOUTH CHICKAMAUGA CREEK
EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
STREAM MILES
Confluence of TR7A & TR7B
L&N RR
L&N RR
Ringgold Intake
Chickamauga TR7C
Road 382-047
GA 151-047 Spur
US 41,76, GA 3,151-047
Ringgold WPCP
Kettle Cr
Hurricane Cr TR7D
L&N RR
L&N RR
Road 381-047
Peavine Cr TR7E
GA-TN State Line

DRAINAGE AREA, IN SQUARE MILES
TR7A EAST CHICKAMAUGA CREEK
Road 336–313
Hayes Br
GA 201–313
Road 331–313
GA 201–313
Cove Cr
Road 336–313
Hopkins Br TR7A1
Road 326–313
Bell Br
County Line
Road 197–047
Tanyard Cr TN7A2
Road 196–047
Road 389–047
Dry Cr TR7A3
L&N RR
L&N RR
Road 193
I–75
L&N RR
Road 281
STREAM MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
DRAINAGE AREA, IN SQUARE MILES
TR7A1 HOPKINS BRANCH
GA 201–313
Road
STREAM MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
DRAINAGE AREA, IN SQUARE MILES
TR7A2 TANYARD CREEK
Mt.Vernon Cr
Road 307–313
County Line
STREAM MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
DRAINAGE AREA, IN SQUARE MILES
TR7A3 DRY CREEK
Road 326–313
CL
Road 257–047
STREAM MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake

DRAINAGE AREA, IN SQUARE MILES
TR7B TIGER CREEK
Dry Br at GA–TN State Line
Stream measuring site
SOU RR
Road 202–313
Road 019–313
Road 206–313
Road 209–313
Creek
Road 221–047
Little Cr TR7B1
Little Tiger Cr
Road 385–047
Broom Br
GA 2–047
US 76, 41, GA 3–047
Cherokee Br
STREAM MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
DRAINAGE AREA, IN SQUARE MILES
TR7B2 SUGAR CREEK
Sugar Creek at TN–GA line
Road 215–047
Road 385–047
Creek
Road 227–047
Road 225–047
STREAM MILES
DRAINAGE AREA, IN SQUARE MILES
TR7B1 LITTLE CREEK
TN–GA State Line
Road 215–047
CL
Road 019–313
Road 219–047
Creek
Road 223
STREAM MILES
DRAINAGE AREA, IN SQUARE MILES
TR7C LITTLE CHICKAMAUGA CREEK
GA 95–295
Creek
Creek
Road 656–295
CL
Road 162–047
Road 159–047
Coulter Cr
Road 387–047
Road 189–047
GA 151–047
Creek
Road 179–047
Road 259
I–75
STREAM MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake


TR7D HURRICANE CREEK
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
STREAM MILES
TN-GA State Line
Road 243-047
L&N RR
TVA measuring site


TR7E PEAVINE CREEK
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
STREAM MILES
GA 95-295
CL
Road 154-295
Road 387-295
Road 155-047
Road 382-047
Creek, Road 002
GA 2-047
I-75
US76,41;GA3,151
Road 024


EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake

TR8 WEST CHICKAMAUGA CREEK

Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR8 WEST CHICKAMAUGA CREEK (Walker, Catoosa Counties)			
Note: Hogjowl Creek is head of West Chickamauga Creek.			
Hogjowl Creek at Road 109-295	53.11	7.2	
Road 716-295	50.89	9.6	
Above Mud Creek	48.81	12.3	1.0
Mud Creek (on left) TR8A	48.81	(11.2)	
Below Mud Creek	48.81	23.5	2.0
Road 101-295	48.48	23.8	2.0
Above Mill Creek	47.86	24.8	2.1
Mill Creek (on left)	47.86	(7.4)	
Below Mill Creek	47.86	32.2	2.6
Road 107-295	46.06	37.3	2.9
GA 193-295	42.26	50.9	4.0
Southern Railway	41.29	* 51.3	4.0
<<< E.T.Barwick WPCP	41.05	* 51.3	4.0
Above Mill Creek	40.72	51.5	4.0
Mill Creek (on left) TR8B >>><<< Plants	40.72	(13.2)	(1.0)
Below Mill Creek (West Chickamauga Creek begins)	40.72	64.7	5.0
<<< Reichhold Polymers WPCP	40.39	* 64.9	5.1
Road 178-295	39.90	65.3	5.1
Above Hall Branch	37.74	70.6	5.4
Hall Branch (on left)	37.74	(2.3)	
Below Hall Branch	37.74	72.9	5.6
GA 136-295	37.32	73.0	5.6
Above Creek	35.64	75.2	6.0
Creek (on right)	35.64	(3.6)	
Below Creek	35.64	78.8	6.7
GA 341-295	34.55	79.3	6.8
Above Brotherton Creek	33.38	81.5	7.2
Brotherton Creek (on left)	33.38	(4.1)	
Below Brotherton Creek	33.38	85.6	7.8
Road 172-295	31.30	85.7	7.9
Road 169-295	29.98	88.5	8.3
Above Creek	27.81	93.9	9.2
Creek (on left)	27.81	(3.1)	
Below Creek	27.81	97.0	9.7
Lofton Home Road 168-295	26.82	98.5	10.0
Road 166-295	24.86	99.4	10.1

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

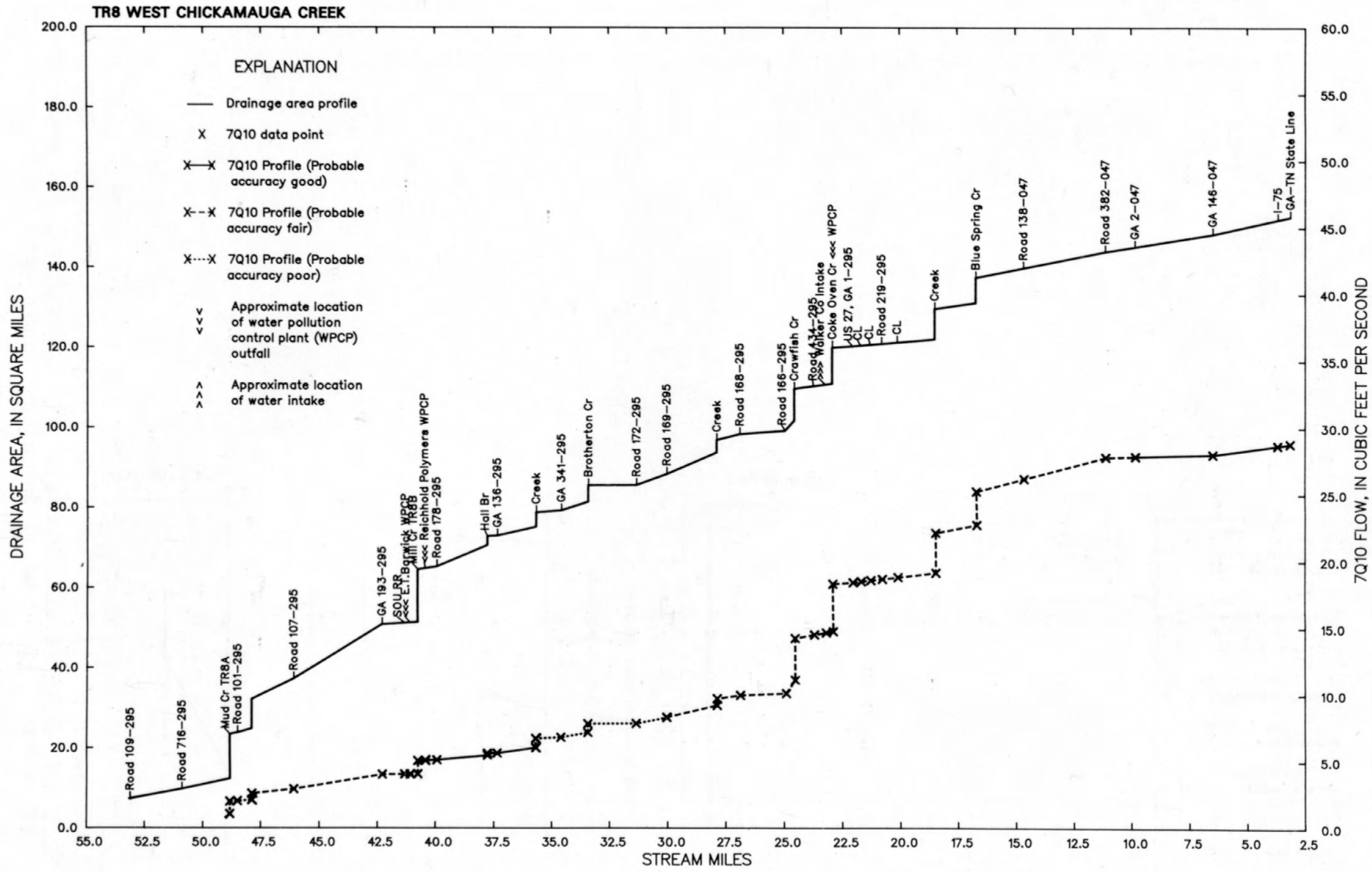
Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR8 WEST CHICKAMAUGA CREEK (Walker, Catoosa Counties)--Continued			
Above Crawfish Creek	24.47	102	11.1
Crawfish Creek (on right)	24.47	(7.6)	
Below Crawfish Creek	24.47	110	14.1
Central of Georgia Railroad	24.40	*110	14.1
Road 434-295	23.64	*110	14.4
>>> Walker County Intake	23.14	*111	14.6
Above Coke Oven Creek	22.84	111	14.8
Coke Oven Creek (on left) <<< Chickamauga WPCP	22.84	(9.0)	
Below Coke Oven Creek	22.84	120	18.3
US 27, GA 1-295	21.97	120	18.4
Walker-Catoosa County Line	21.62	*121	18.5
Catoosa-Walker County Line	21.21	*121	18.6
Road 219-295	20.72	*121	18.7
Walker-Catoosa County Line	20.05	*121	18.8
Above Creek	18.43	122	19.2
Creek (on left)	18.43	(7.6)	
Below Creek	18.43	130	22.2
Above Blue Spring Creek	16.65	131	22.7
Blue Spring Creek (on right)	16.65	(5.9)	
Below Blue Spring Creek	16.65	137	25.3
Jays Mill Road 138-047	14.61	*140	26.2
Reed Bridge Boynton Drive 382-047	11.09	144	27.8
Battlefield Parkway GA 2-047	9.81	*145	27.9
GA 146-047	6.48	148	28.0
Interstate 75	3.67	*152	28.7
Georgia-Tennessee State Line	3.13	153	28.8

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

TR8 TRIBUTARIES TO WEST CHICKAMAUGA CREEK

Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR8A MUD CREEK (Walker County)			
Above Cedar Grove Creek	1.38	5.9	
Cedar Grove Creek (on left)	1.38	(4.2)	
Below Cedar Grove Creek	1.38	10.1	
Mouth	0	11.2	
TR8B MILL CREEK (Walker County)			
GA 193-295	2.49	4.7	
Southern RR	1.97	* 5.0	
Above Coulter Branch	1.86	5.1	
Coulter Branch (on right)	1.86	(6.5)	
Below Coulter Branch	1.86	11.6	0.89
>>> Reichhold Polymers Intake	1.47	* 11.9	.92
Southern Railway	.68	* 12.7	.98
Road 712-295	.39	13.0	1.0
<<< Reichhold Polymers WPCP	.16	* 13.1	1.0
Mouth	0	13.2	1.0
TR8C SPRING CREEK (Catoosa County)			
Above Black Branch	3.43	0.98	
Black Branch (on left)	3.43	(10.7)	
Below Black Branch	3.43	11.7	
Georgia-Tennessee State Line	2.76	13.8	

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.


TR8 WEST CHICKAMAUGA CREEK
EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
STREAM MILES
Road 109–295
Road 716–295
Mud Cr TR8A
Road 101–295
Road 107–295
GA 193–295
SOU RR
<<< E.I. Barwick WPCP
Mill Cr TR8B
<<< Reichhold Polymers WPCP
Road 178–295
Hall Br
GA 136–295
Creek
GA 341–295
Brotherton Cr
Road 172–295
Road 169–295
Creek
Road 168–295
Road 166–295
Crawfish Cr
Road 134–295
>>> Water Co intake
Coke Oven Cr <<< WPCP
US 27, GA 1–295
CL
CL
CL
Road 219–295
CL
Creek
Blue Spring Cr
Road 138–047
Road 382–047
GA 2–047
GA 148–047
I–75
GA–TN State Line

TR8A MUD CREEK
DRAINAGE AREA, IN SQUARE MILES
25.0
20.0
15.0
10.0
5.0
0.0
Cedar Grove Cr
4
3
2
1
0
STREAM MILES

TR8B MILL CREEK
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
25.0
20.0
15.0
10.0
5.0
0.0
10.0
8.0
6.0
4.0
2.0
0.0
GA 193–295 RR
Coulter Br
>>> Reichhold Polymers Intake
SOU RR
<<< WPCP, Road 712
4
3
2
1
0
STREAM MILES

TR8C SPRING CREEK
DRAINAGE AREA, IN SQUARE MILES
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
Black Br
GA–TN Line
4
3
2
1
0
STREAM MILES

EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake

TR9 CHATTANOOGA CREEK

Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR9 CHATTANOOGA CREEK (Dade, Walker Counties)			
Note: Chattanooga Creek and Dry Creek (TR9B) join in Tennessee.			
GA 193-295	23.72	1.1	
Southern Railway	23.49	* 1.5	
Southern Railway	21.70	* 4.3	0.21
Southern Railway	21.49	* 4.7	.23
Road 193-295	20.62	* 6.1	.30
Road 208-295	19.32	8.1	.40
Road 235-295	17.50	* 11.7	.64
Nickajack Road 715-295	15.33	15.9	.93
GA 341-295	14.32	18.5	1.1
GA 349-295	12.70	* 20.8	1.4
Above Rock Creek	11.54	22.4	1.6
Rock Creek (on left) TR9A >>> Intake	11.54	(24.7)	(1.2)
Below Rock Creek	11.54	47.1	2.8
Gage 03568500	9.11	50.6	3.2
Georgia-Tennessee State Line	8.17	51.6	3.3

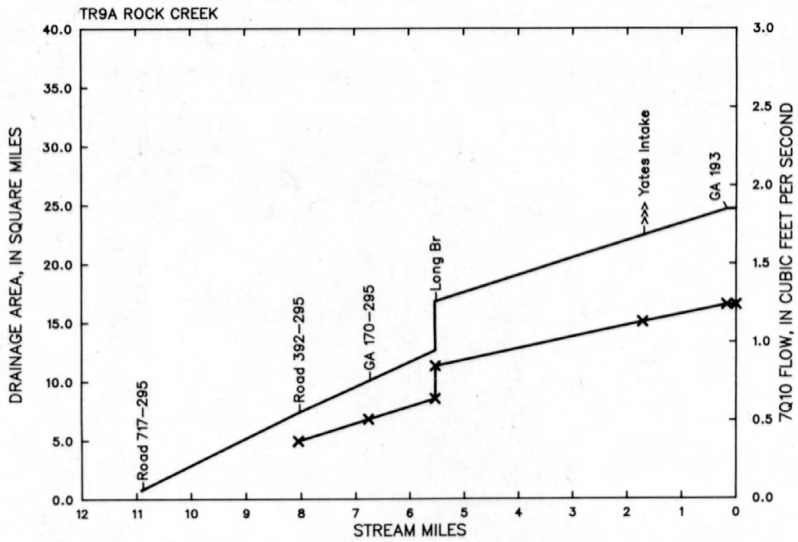
* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

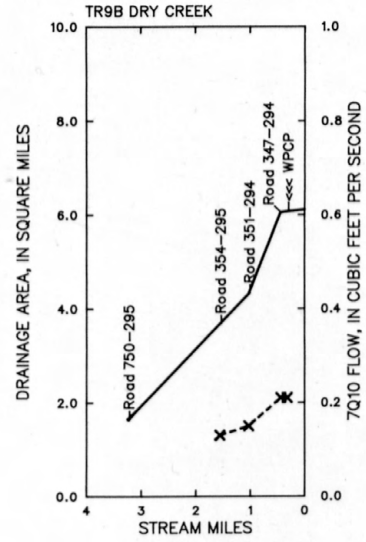
TR9 TRIBUTARIES TO CHATTANOOGA CREEK

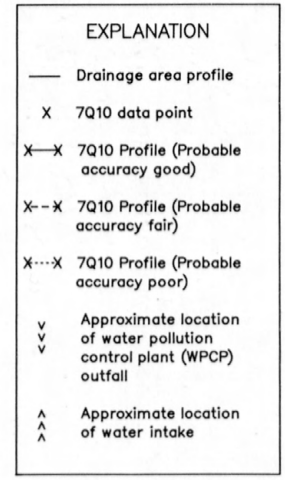
Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR9A ROCK CREEK (Dade, Walker Counties)			
Road 717-295	10.91	0.78	
Road 392-295	8.05	7.4	0.37
GA 170-295	6.76	* 10.1	.51
Above Long Branch	5.53	12.7	.64
Long Branch (on right)	5.53	(4.1)	
Below Long Branch	5.53	16.8	.85
>>> Yates Bleachery Co.,Inc.	1.71	* 22.4	1.1
Southern Railway	.31	* 24.5	1.2
GA 193-295	.17	24.7	1.2
Mouth	0	24.7	1.2
TR9B DRY CREEK (Walker County)			
Ridgeland Road 750-295	3.24	1.6	
Salem Road 354-295	1.56	* 3.7	0.13
James Street 351-294	1.03	4.3	.15
Maple Street 347-294	.44	6.1	.21
<<< The Stone Man WPCP	.32	* 6.1	.21
Mouth (in Tennessee)	0	6.1	

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

TR9 CHATTANOOGA CREEK
EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
STREAM MILES
GA 193–295
SOU RY
SOU RY
SOU RY
Road 193–295
Road 208–295
Road 235–295
Road 715–295
GA 341–295
GA 349–295
Rock Creek TR9A >>> Intake
Gage 03568500
GA–TN State Line


TR9A ROCK CREEK
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
STREAM MILES
Road 717–295
Road 392–295
GA 170–295
Long Br
>>> Yates Intake
GA 193


TR9B DRY CREEK
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
STREAM MILES
Road 750–295
Road 354–295
Road 351–294
Road 347–294
<<< WPCP


EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake

TR10 LOOKOUT CREEK

Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR10 LOOKOUT CREEK (Dade County)			
Alabama-Georgia State Line	40.13	14.9	2.0
Southern Railway	40.03	* 15.1	2.0
Road 215-083	38.96	16.3	2.2
Road 129-083	36.97	* 19.3	2.3
Southern Railway	36.96	* 19.3	2.3
Southern Railway	36.56	* 19.9	2.4
Road 130-083	36.55	* 19.9	2.4
Above Dry Creek	36.17	20.5	2.4
Dry Creek (on left) TR10A	36.17	(21.7)	(.80)
Below Dry Creek	36.17	42.2	3.2
Above Gulf Creek	35.28	43.1	
Gulf Creek (on right) TR10B	35.28	(14.7)	
Below Gulf Creek	35.28	57.8	4.9
Southern Railway	32.21	* 62.6	5.3
Road 130-083	32.01	* 62.9	5.3
Above Hurricane Creek	31.56	63.6	5.3
Hurricane Creek (on right)	31.56	(5.1)	
Below Hurricane Creek	31.56	68.7	5.8
Road 197-083	30.49	68.9	5.8
Southern Railway	30.09	* 69.5	5.9
Above Allison Creek	29.18	71.1	6.0
Allison Creek (on left)	29.18	(6.7)	
Below Allison Creek	29.18	77.8	6.6
Above Crawfish Creek	26.21	81.7	6.9
Crawfish Creek (on left) TR10C	26.21	(10.2)	
Below Crawfish Creek	26.21	91.9	7.8
Southern Railway	24.66	* 95.0	8.0
GA 136-083	20.92	102	8.7
>>> Dade County Intake	20.59	*103	8.8
<<< Trenton WPCP	19.88	*105	9.0
Above Sitton Gulch Creek	19.21	107	9.2
Sitton Gulch Creek (on right) TR10D	19.21	(20.8)	
Below Sitton Gulch Creek	19.21	128	11.6
Above Squirrel Town Creek	16.81	134	12.4
Squirrel Town Creek TR10E	16.81	(11.6)	
Below Squirrel Town Creek	16.81	146	13.8
Road 201-083, Gage 03568933	16.31	147	13.9
Above Pope Creek	11.11	154	14.8

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR10 LOOKOUT CREEK (Dade County)--Continued			
Pope Creek (on left) TR10F	11.11	(8.6)	(.48)
Below Pope Creek	11.11	163	15.3
Gage 03569000	11.04	165	15.5
Georgia-Tennessee State Line	5.19	173	16.2

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

TR10 TRIBUTARIES TO LOOKOUT CREEK

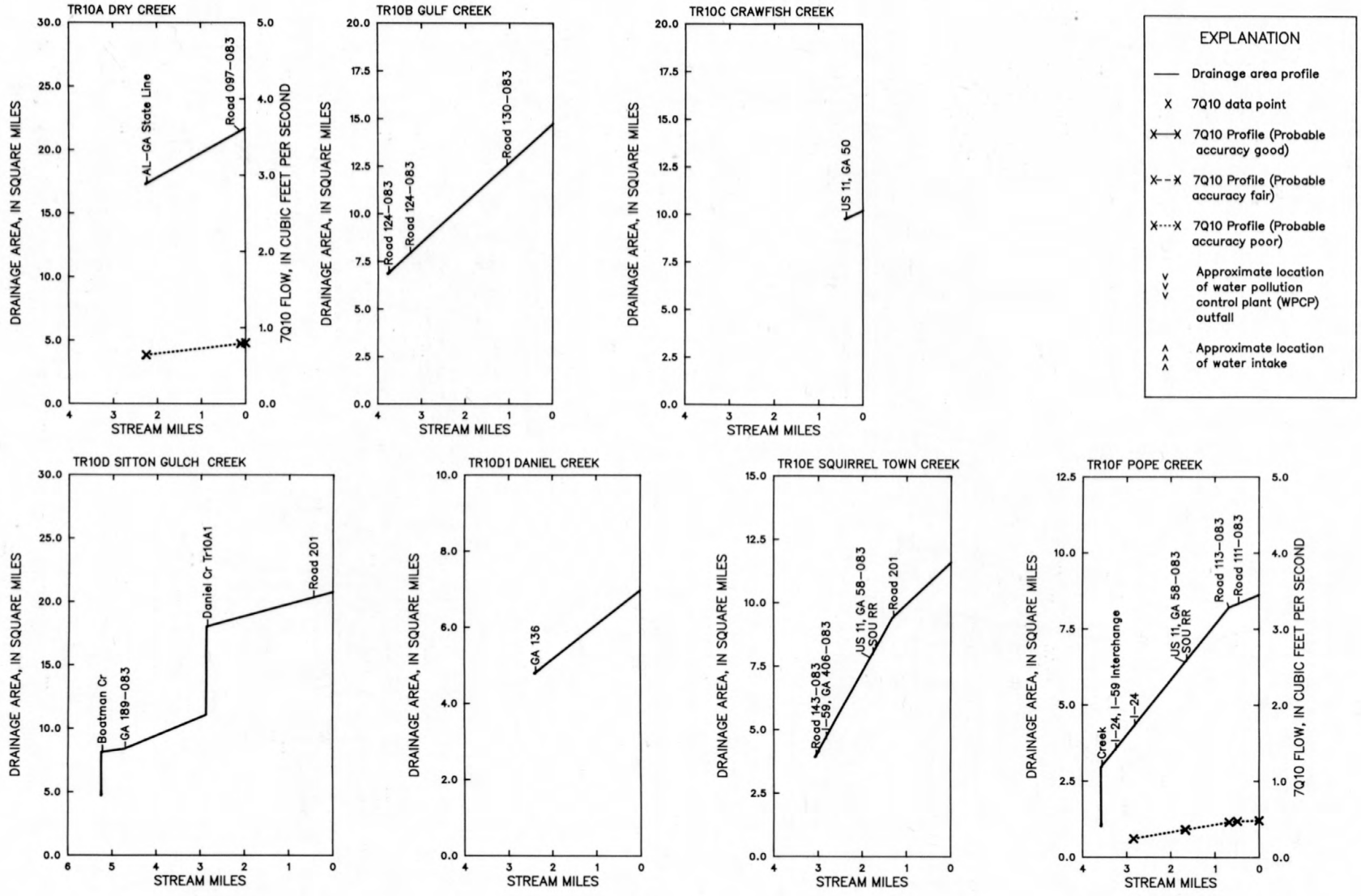
Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR10A DRY CREEK (DeKalb Co, AL; Dade Co., GA)			
Alabama-Georgia State Line	2.25	17.3	0.64
Road 097-083	.11	* 21.5	.79
Southern Railway	.07	* 21.6	.79
Mouth	0	21.7	.80
TR10B GULF CREEK (Dade County)			
Road 124-083 (upper)	3.78	6.9	
Road 124-083 (lower)	3.29	* 7.9	
Road 130-083	1.08	* 12.5	
Mouth	0	14.8	
TR10C CRAWFISH CREEK (DeKalb Co., AL; Dade Co., GA)			
US 11, GA 50-083	0.40	9.8	
Mouth	0	10.2	
TR10D SITTON GULCH (BEAR) CREEK (Dade County)			
Bear Creek above Boatman Creek	5.25	4.7	
Boatman Creek (on left)	5.25	(3.4)	
Below Boatman Creek	5.25	8.1	
GA 189-083	4.73	8.4	
Above Daniel Creek	2.87	11.0	
Daniel Creek (on left) TR10A1	2.87	(7.0)	
Below Daniel Creek (Sitton Gulch Creek begins)	2.87	18.0	
Road 201-083	.46	* 20.3	
Mouth	0	20.8	
TR10D1 DANIEL CREEK (Dade County)			
GA 136-083	2.40	4.8	
Mouth	0	7.0	
TR10E SQUIRREL TOWN CREEK (Dade County)			
Road 143-083	3.07	3.9	
Interstate 59, GA 406-083	2.84	* 4.6	

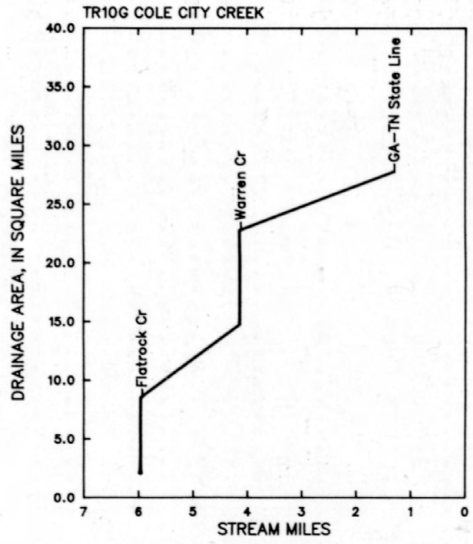
* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

Site	Stream miles	Drainage area (mi^2)	7Q10 (ft^3/s)
TR10E SQUIRREL TOWN CREEK (Dade County)--Continued			
US 11, GA 58-083	1.82	* 7.8	
Southern Railway	1.78	* 8.0	
Road 201-083	1.32	9.4	
Mouth	0	11.6	
TR10F POPE CREEK (Dade County)			
Above Creek	3.58	1.0	
Creek (on left)	3.58	(1.9)	
Below Creek	3.58	2.9	
Interstate 24, Interstate 59 Interchange	3.27	* 3.5	
Road 146-083	2.98	* 4.0	
Interstate 24	2.84	* 4.3	0.24
US 11, GA 58-083	1.67	* 6.4	.36
Southern Railway	1.66	* 6.4	.36
Road 113-083	.68	8.2	.46
Road 111-083	.49	* 8.3	.47
Mouth	0	8.6	.48
TR10G COLE CITY CREEK (Dade County)			
Above Flatrock Creek	5.96	2.1	
Flatrock Creek (on left)	5.96	(6.4)	
Below Flatrock Creek	5.96	8.5	
Above Warren Creek	4.13	14.7	
Warren Creek (on left)	4.13	(8.0)	
Below Warren Creek	4.13	22.7	
Georgia-Tennessee State Line	1.32	27.7	

* Interpolated drainage area.
( ) Drainage area or flow at the mouth of a tributary.
<<< Approximate location of water pollution control plant (WPCP) outfall.
>>> Approximate location of water intake.

TR10 LOOKOUT CREEK
EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake
AL–GA State Line
SOU RR
Road 215–083
Road 129–083
SOU RR
Road 130–083
Dry Cr TR10A
Gulf Cr TR10B
SOU RR
Road 130–083
Hurricane Cr
Road 197–083
SOU RR
Allison Cr
Crawfish Cr TR10C
SOU RR
GA 136–083
>>> Dade County Intake
<<< Trenton WPCP
Sitton Gulch Cr TR10D
Squirrel Town Cr TR10E
Road 201–083, Gage 03568933
Pope Cr TR10F
Gage
GA–TN State Line
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
STREAM MILES
225.0
200.0
175.0
150.0
125.0
100.0
75.0
50.0
25.0
0.0
32.5
30.0
27.5
25.0
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
42.5
40.0
37.5
35.0
32.5
30.0
27.5
25.0
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0


TR10A DRY CREEK
TR10B GULF CREEK
TR10C CRAWFISH CREEK
TR10D SITTON GULCH CREEK
TR10D1 DANIEL CREEK
TR10E SQUIRREL TOWN CREEK
TR10F POPE CREEK
DRAINAGE AREA, IN SQUARE MILES
7Q10 FLOW, IN CUBIC FEET PER SECOND
STREAM MILES
AL–GA State Line
Road 097–083
Road 124–083
Road 130–083
US 11, GA 50
Boatman Cr
GA 189–083
Daniel Cr Tr10A1
Road 201
GA 136
Road 143–083
I–59, GA 406–083
US 11, GA 58–083
SOU RR
Creek
I–24, I–59 Interchange
I–24
Road 113–083
Road 111–083
EXPLANATION
Drainage area profile
7Q10 data point
7Q10 Profile (Probable accuracy good)
7Q10 Profile (Probable accuracy fair)
7Q10 Profile (Probable accuracy poor)
Approximate location of water pollution control plant (WPCP) outfall
Approximate location of water intake



EXPLANATION

- Drainage area profile
- X 7Q10 data point
- X—X 7Q10 Profile (Probable accuracy good)
- X--X 7Q10 Profile (Probable accuracy fair)
- X···X 7Q10 Profile (Probable accuracy poor)
- v v v Approximate location of water pollution control plant (WPCP) outfall
- ^ ^ ^ Approximate location of water intake

ALPHABETICAL INDEX

ALPHABETICAL INDEX--Continued

★ UNITED STATES GOVERNMENT PRINTING OFFICE: 1989—632-959