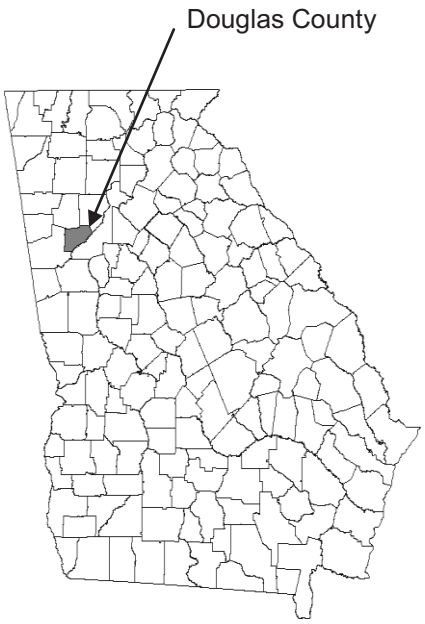
FLOOD INSURANCE STUDY

VOLUME 1 OF 6

DOUGLAS COUNTY, GEORGIA

AND INCORPORATED AREAS

Community Name	*Community Number*
AUSTELL, CITY OF	130054
DOUGLAS COUNTY (UNINCORPORATED AREAS)	130306
DOUGLASVILLE, CITY OF	130305



Revised: March 4, 2013

Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER
13097CV001B

NOTICE TO
FLOOD INSURANCE STUDY USERS

Communities participating in the National Flood Insurance Program have established repositories of flood hazard data for floodplain management and flood insurance purposes. This Flood Insurance Study (FIS) report may not contain all data available within the Community Map Repository. Please contact the Community Map Repository for any additional data.

The Federal Emergency Management Agency (FEMA) may revise and republish part or all of this FIS report at any time. In addition, FEMA may revise part of this FIS report by the Letter of Map Revision process, which does not involve republication or redistribution of the FIS report. Therefore, users should consult with community officials and check the Community Map Repository to obtain the most current FIS report components.

Initial Countywide FIS Effective Date: August 18, 2009

Revised Countywide FIS Date: March 4, 2013

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FLOOD INSURANCE STUDY
DOUGLAS COUNTY, GEORGIA AND INCORPORATED AREAS

1.0 INTRODUCTION

1.1 Purpose of Study

This Flood Insurance Study (FIS) revises and updates information on the existence and severity of flood hazards in the geographic area of Douglas County, including the Cities of Austell and Douglasville and the unincorporated areas of Douglas County (referred to collectively herein as Douglas County), and aids in the administration of the National Flood Insurance Act of 1968 and the Flood Disaster Protection Act of 1973. This study has developed flood-risk data for various areas of the community that will be used to establish actuarial flood insurance rates and to assist the community in its efforts to promote sound floodplain management. Minimum floodplain management requirements for participation in the National Flood Insurance Program (NFIP) are set forth in the Code of Federal Regulations at 44 CFR, 60.3.

Please note that the City of Austell is geographically located in Douglas County and Cobb County. Only the portion of the City of Austell that lie in Douglas County are included in this FIS report. The City of Villa Rica is located geographically in Douglas County and Carroll County. The City of Villa Rica is not included in this FIS report. See the separately printed FIS reports and Flood Insurance Rate Maps (FIRMs) for flood hazard information for this community.

In some states or communities, floodplain management criteria or regulations may exist that are more restrictive or comprehensive than the minimum Federal requirements. In such cases, the more restrictive criteria take precedence and the State (or other jurisdictional agency) will be able to explain them.

The Digital Flood Insurance Rate Map (DFIRM) and FIS report for this countywide study have been produced in digital format. Flood hazard information was converted to meet the Federal Emergency Management Agency (FEMA) DFIRM database specifications and Geographic Information System (GIS) format requirements. The flood hazard information was created and is provided in a digital format so that it can be incorporated into a local GIS and be accessed more easily by the community.

1.2 Authority and Acknowledgments

The sources of authority for this FIS are the National Flood Insurance Act of 1968 and the Flood Disaster Protection Act of 1973.

Precountywide Analyses

Information on the authority and acknowledgements for each jurisdiction included in this countywide FIS, as compiled from their previously printed FIS reports, is shown below:

Douglas County (Unincorporated Areas):	The hydrologic and hydraulic analyses for the July 2, 1979, FIS report (FIA, 1979) were performed by Roy F. Weston, Inc., for the Federal Insurance Administration (FIA), under Contract No. H-4048, The work was completed in January 1978. The hydrologic and hydraulic analyses for the Chattahoochee River between State Highway 92 (River Mile 282) and State Highway 141 (River Mile 331) for the March 15, 1984, FIS report (FEMA, 1984) were performed by the U.S. Army Corps of Engineers (USACE), Mobile District (USACE, 1981), and the U.S. Geological Survey (USGS) in Atlanta.

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The hydrologic and hydraulic analyses for the Anneewakee Creek and Bear Creek Basins, and the limited detailed analyses for Beaver Creek, Huey Creek, Huey Creek Tributary A, Margie Branch, Miller Creek, Miller Creek Tributary A, and Pinewood Branch were conducted by Jordan, Jones & Goulding, Inc., in the City of Norcross, Georgia, under contract and consultation with the Douglasville-Douglas County Water & Sewer Authority (WSA) in the City of Douglasville, Georgia (Jordan, Jones & Goulding, Inc., 2007a and 2007b). The work was completed in February 2007.

The limited detailed hydrologic and hydraulic analyses for Keaton Creek Tributary 1 and Keaton Creek Tributary 2 in the initial countywide FIS report (FEMA, 2009) were performed by the Georgia Department of Natural Resources (DNR) under Contract Number EMA-2005-CA-5211 with FEMA. The work was completed in April 2006.

Detailed analyses for Douglas County Watershed Reservoir, Sweetwater Creek, and Town Branch were redelineated based on more accurate topography by the Georgia DNR.

Detailed analyses for Gothards Creek and Sweetwater Creek were taken from the FIS for Paulding County, Georgia and Incorporated Areas (FEMA, 2006). The hydrologic and hydraulic analyses were prepared by Roy F. Weston, Inc., for the FIA, under Contract No. H-3798. The work was completed in April 1977.

All streams that were not redelineated or newly studied were checked against available topography and floodplains were adjusted where necessary by the Georgia DNR.

This Countywide Revision

The hydrologic and hydraulic analyses for this study were performed by Atkins, Dewberry, and Jacobs for FEMA, under Contract No. GA DNR-EPD MAS FY09.09. Project Order No. 100015064 . The work was completed in May 2011.

The hydrologic and hydraulic analyses for the Hurricane Creek and Sweetwater Creek basins were performed by Jacobs. The hydrologic and hydraulic analyses for the Gothards Creek basin and Sweetwater Creek Tributary L were performed by Atkins. Also, the hydrologic analysis for the Chattahoochee River was performed by Dewberry while the hydraulic analysis was performed by Atkins.

Base map information shown on the Flood Insurance Rate Map (FIRM) was provided in digital format by Douglas County GIS Department at a scale of 1":100', from aerial photography dated 2007 or later. The projection used in the preparation of this map is State Plane Georgia West, and the horizontal datum used is North American Datum of 1983 (NAD83), GRS80 Spheroid.

1.3 Coordination

An initial meeting is held with representatives from FEMA, the community, and the study contractor to explain the nature and purpose of a FIS, and to identify the streams to be studied or restudied. A final meeting is held with representatives from FEMA, the community, and the study contractor to review the results of the study.

Precountywide Analyses

The initial and final meeting dates for previous FIS reports for Douglas County and its communities are listed in the table on the following page:

Community	FIS Date	Initial Meeting	Final Meeting
Douglas County (Unincorporated Areas)	July 2, 1979	June 23, 1974	January 4, 1976

August 18, 2009
Initial Countywide FIS Report

For the August 18, 2009 initial countywide FIS report, the initial meeting was held on October 18, 2004, and was attended by representatives of FEMA, the Georgia DNR (GA DNR), Douglas County, and the City of Douglasville.

The results of the study were reviewed at the final meeting held on November 29, 2007, and attended by representatives of the City of Douglasville, Douglas County, GA DNR, and Atkins, all issues raised at the meeting have been addressed.

This Countywide Revision

The initial meeting was held on April 12, 2010, and attended by representatives of FEMA, Douglas County, the City of Douglasville, GA DNR, and Atkins.

The results of the study were reviewed at the final meeting held on November 30, 2011 and attended by representatives of FEMA, The City of Austell, The City of Douglasvile, GA DNR, and Atkins. All issues and/or concerns raised at that meeting have been addressed.

2.0 AREA STUDIED

2.1 Scope of Study

This FIS covers the geographic area of Douglas County, Georgia, including the incorporated communities listed in Section 1.1. The areas studied by detailed methods were selected with priority given to all known flood hazards and areas of projected development or proposed construction.

The following streams were studied by detailed methods in this FIS report:

Table 1 – Streams Studied by Detailed Methods

Alexander Branch
Alexander Branch Tributary A
Alexander Branch Tributary B
Amber Creek
Amber Creek Tributary A
Anneewakee Creek
Anneewakee Creek Tributary A
Anneewakee Creek Tributary B
Anneewakee Creek Tributary C
Anneewakee Creek Tributary D
Anneewakee Creek Tributary E
Anneewakee Creek Tributary F
Anneewakee Creek Tributary G
Anneewakee Creek Tributary H
Anneewakee Creek Tributary I
Anneewakee Creek Tributary J
Anneewakee Creek Tributary K
Anneewakee Creek Tributary L
Arbor Branch
Arbor Branch Tributary A
Austin Creek
Baldwin Creek
Baldwin Creek Tributary A
Bear Creek
Bear Creek Tributary A
Bear Creek Tributary B
Bear Creek Tributary C
Bear Creek Tributary D
Bear Creek Tributary E
Bear Creek Tributary F
Bear Creek Tributary G
Beaver Creek
Beaver Creek Tributary A
Bomar Branch
Camp Branch
Camp Branch Tributary A
Chapel Farms Creek
Chapel Farms Creek Tributary A
Chattahoochee River
Coursey Creek
Crooked Creek
Crooked Creek Tributary A
Crooked Creek Tributary B
Crooked Creek Tributary C
Hurricane Creek Tributary A
Hurricane Creek Tributary B
Hurricane Creek Tributary C
Hurricane Creek Tributary D
Hurricane Creek Tributary E
Knollwood Branch
Knollwood Branch Tributary A
Kraft Creek
Kraft Creek Tributary A
Little Anneewakee Creek
Little Anneewakee Creek Tributary A
Little Anneewakee Creek Tributary B
Little Anneewakee Creek Tributary C
Little Anneewakee Creek Tributary D
Little Anneewakee Creek Tributary E
Little Bear Creek
Little Bear Creek Tributary A
Little Bear Creek Tributary B
Little Bear Creek Tributary C
Little Bear Creek Tributary D
Little Bear Creek Tributary E
Little Bear Creek Tributary F
Little Hurricane Creek
Little Hurrican Creek Tributary A
Lion Branch
Lion Branch Tributary A
Lion Branch Tributary B
Margie Branch
Margie Branch Tributary A
Mill Creek
Mill Creek Tributary 1
Miller Creek
Miller Creek Tributary A
Mobley Creek
Mobley Creek Tributary 5
Mobley Creek Tributary 6
Mobley Creek Tributary 7
Mud Creek
Palmer Branch
Palmer Branch Tributary A
Palmer Branch Tributary B
Palmer Branch Tributary C
Panther Creek
Panther Creek Tributary A

Table 1 – Streams Studied by Detailed Methods (*Continued*)

Crooked Creek Tributary D
Crossing Branch
Dry Creek
Dry Creek Tributary A
Dry Creek Tributary B
Dry Creek Tributary C
Dog River
Dorsett Creek
Farm Branch
Farm Branch Tributary A
Gordon Creek
Gothards Creek
Gothards Creek Tributary 1
Gothards Creek Tributary 2
Gothards Creek Tributary 2.1
Gothards Creek Tributary 3
Gothards Creek Tributary 3.1
Gothards Creek Tributary 3.2
Gothards Creek Tributary 4
Gothards Creek Tributary 4.1
Gothards Creek Tributary 4.1.1
Gothards Creek Tributary 6
Gothards Creek Tributary 8
Gothards Creek Tributary 8.1
Gothards Creek Tributary 9
Gothards Creek Tributary 10
Gothards Creek Tributary 11
Gothards Creek Tributary 11.1
Gothards Creek Tributary 11.2
Gothards Creek Tributary 11.3
Gothards Creek Tributary 15
Hickory Creek
Hickory Creek Tributary A
Hickory Creek Tributary B
Hickory Creek Tributary C
Hickory Creek Tributary D
Hickory Creek Tributary E
Huey Creek
Huey Creek Tributary 1
Huey Creek Tributary 1.1
Huey Creek Tributary 2
Huey Creek Tributary 2.1
Hurricane Creek
Park Creek
Pine Creek
Pinewood Branch
Pinewood Branch Tributary A
Shell Creek
Shoals Branch
Shoals Branch Tributary A
Shoals Branch Tributary B
Simon Creek
Slater Mill Creek
Slater Mill Creek Tributary A
Slater Mill Creek Tributary B
Spivey Branch
Spivey Branch Tributary A
Spivey Branch Tributary B
Sweetwater Creek
Sweetwater Creek Tributary A
Sweetwater Creek Tributary B
Sweetwater Creek Tributary C
Sweetwater Creek Tributary D
Sweetwater Creek Tributary E
Sweetwater Creek Tributary F
Sweetwater Creek Tributary G
Sweetwater Creek Tributary H
Sweetwater Creek Tributary I
Sweetwater Creek Tributary J
Sweetwater Creek Tributary K
Sweetwater Creek Tributary L
Sweetwater Creek Tributary L.2
Sweetwater Creek Tributary L.3
Sweetwater Creek Tributary L.3.1
Taynyard Branch
Tanyard Branch Tributary A
Tiger Creek
Tiger Creek Tributary A
Town Branch
Tributary 1 to Northern Lake
Tributary 2 to Northern Lake
Tyree Branch
Unnamed Tributary to Southern Lake
Waterfall Branch
Zion Branch

The limits of detailed study are indicated on the Flood Profiles (Exhibit 1) and on the FIRM (Exhibit 2).

August 18, 2009
Initial Countywide FIS Report

The streams studied by detailed methods in the August 18, 2009, initial countywide FIS Report (FEMA, 2009) are presented in Table 2.

Table 2 – Streams Studied by Detailed Methods in the Initial Countywide FIS Report

Alexander Branch	Crooked Creek
Alexander Branch Tributary A	Crooked Creek Tributary A
Alexander Branch Tributary B	Crooked Creek Tributary B
Amber Creek	Crooked Creek Tributary C
Amber Creek Tributary A	Crooked Creek Tributary D
Anneewakee Creek	Crossing Branch
Anneewakee Creek Tributary A	Dorsett Creek
Anneewakee Creek Tributary B	Farm Branch
Anneewakee Creek Tributary C	Farm Branch Tributary A
Anneewakee Creek Tributary D	Gordon Creek
Anneewakee Creek Tributary E	Gothards Creek
Anneewakee Creek Tributary F	Gothards Creek Tributary 2
Anneewakee Creek Tributary G	Gothards Creek Tributary 3
Anneewakee Creek Tributary H	Gothards Creek Tributary 4
Anneewakee Creek Tributary I	Knollwood Branch
Anneewakee Creek Tributary J	Knollwood Branch Tributary A
Anneewakee Creek Tributary K	Little Anneewakee Creek
Anneewakee Creek Tributary L	Little Anneewakee Creek Tributary A
Arbor Branch	Little Anneewakee Creek Tributary B
Arbor Branch Tributary A	Little Anneewakee Creek Tributary C
Austin Creek	Little Anneewakee Creek Tributary D
Baldwin Creek	Little Anneewakee Creek Tributary E
Baldwin Creek Tributary A	Little Bear Creek
Bear Creek	Little Bear Creek Tributary A
Bear Creek Tributary A	Little Bear Creek Tributary B
Bear Creek Tributary B	Little Bear Creek Tributary C
Bear Creek Tributary C	Little Bear Creek Tributary D
Bear Creek Tributary D	Little Bear Creek Tributary E
Bear Creek Tributary E	Little Bear Creek Tributary F
Bear Creek Tributary F	Mobley Creek
Bear Creek Tributary G	Mobley Creek Tributary 5
Bomar Branch	Mobley Creek Tributary 6
Chapel Farms Creek	Mobley Creek Tributary 7
Chapel Farms Creek Tributary A	Mud Creek
Chattahoochee River	Panther Creek
Coursey Creek	Panther Creek Tributary A

Table 2 – Streams Studied by Detailed Methods in the Initial Countywide FIS Report (*Continued*)

Pine Creek	Tanyard Branch
Simon Creek	Tanyard Branch Tributary A
Slater Mill Creek	Tiger Creek
Slater Mill Creek Tributary A	Tiger Creek Tributary A
Slater Mill Creek Tributary B	Town Branch
Sweetwater Creek	Waterfall Branch
Sweetwater Creek Tributary 1	

The August 18, 2009, initial countywide study covers the extents of the Anneewakee Creek and Bear Creek Watersheds. The Anneewakee Creek Basin was divided into fifteen watersheds: Amber Creek, Anneewakee Creek, Arbor Branch, Austin Creek, Bomar Branch, Chapel Farms Creek, Crooked Creek, Crossing Branch, Farm Branch, Knollwood Branch, Little Anneewakee Creek, Panther Creek, Simon Creek, Slater Mill Creek and Tiger Creek. The Bear Creek Basin was divided into seven hydraulic models: Alexander Branch, Baldwin Creek, Bear Creek, Coursey Creek, Dorsett Creek, Little Bear Creek, and Tanyard Branch. Each model consisted of a main channel and, if applicable, any significant tributaries with at least 100 acres of drainage area.

Three significant tributaries in the Bear Creek Basin (Alexander Branch, Coursey Creek, and Dorsett Creek) were unnamed streams and eleven significant tributaries (all except for Crooked Creek, Little Anneewakee Creek, and Slater Mill Creek) in the Anneewakee Creek Basin were also unnamed streams. For organization, simplification and convenience purposes, these tributaries were assigned names in consultation with WSA in accordance with guidelines set forth in "Principles, Policies, and Procedures: Domestic Geographic Names" (USGS, 2003).

The streams and reaches studied by limited detailed methods in the initial countywide FIS Report are presented in Table 3.

Table 3 – Streams Studied by Limited Detailed Methods in the Initial Countywide FIS Report

Beaver Creek	From approximately 390 feet upstream of Groover Lake Road to approximately 520 feet upstream of Patty Court
Huey Creek	From approximately 425 feet upstream of Maroney Mill Road to approximately 880 feet upstream of Brown Road

Table 3 – Streams Studied by Limited Detailed Methods in the Initial Countywide FIS Report

Huey Creek Tributary A	From the confluence with Huey Creek to approximately 340 feet upstream of Pirkle Road
Keaton Creek Tributary 1	From the confluence with Keaton Creek to the City of Villa Rica corporate limits (approximately 4,160 feet upstream of West Tyson Road
Keaton Creek Tributary 2	From the confluence with Keaton Creek Tributary 1 to the county boundary
Margie Branch	From the confluence with Beaver Creek to approximately 2,550 feet upstream of Margie Lane
Miller Creek	From the confluence with Beaver Creek to approximately 610 feet upstream of Miller Street
Miller Creek Tributary A	From the confluence with Miller Creek to approximately 1,445 feet upstream of the confluence with Miller Creek
Pinewood Branch	From the confluence with Sweetwater Creek Tributary 1 to approximately 1,510 feet upstream of Lakeside Drive

For the initial countywide FIS, the FIS report and FIRM were converted to countywide format, and the flooding information for the entire county, including both incorporated and unincorporated areas, is shown. Also, the vertical datum was converted from the National Geodetic Vertical Datum of 1929 (NGVD) to the North American Vertical Datum of 1988 (NAVD). In addition, the Transverse Mercator, State Plane coordinates, previously referenced to the North American Datum of 1927 (NAD27), are now referenced to the North American Datum of 1983 (NAD83).

This Countywide FIS Report

The following streams presented in Table 4 were studied by detailed methods for this countywide FIS report.

Table 4 – Streams Studied by Detailed Methods for this Countywide FIS Report

Beaver Creek
Beaver Creek Tributary A
Camp Branch
Camp Branch Tributary A
Chattahoochee River
Dry Creek
Gordon Creek
Gothards Creek
Gothards Creek Tributary 1
Gothards Creek Tributary 2
Gothards Creek Tributary 2.1
Gothards Creek Tributary 3
Gothards Creek Tributary 3.1
Gothards Creek Tributary 3.2
Gothards Creek Tributary 4
Gothards Creek Tributary 4.1
Gothards Creek Tributary 4.1.1
Gothards Creek Tributary 6
Gothards Creek Tributary 8
Gothards Creek Tributary 8.1
Gothards Creek Tributary 9
Gothards Creek Tributary 10
Gothards Creek Tributary 11
Gothards Creek Tributary 11.1
Gothards Creek Tributary 11.2
Gothards Creek Tributary 11.3
Gothards Creek Tributary 12
Gothards Creek Tributary 15
Hickory Creek
Hickory Creek Tributary A
Hickory Creek Tributary B
Hickory Creek Tributary C
Hickory Creek Tributary D
Hickory Creek Tributary E
Huey Creek
Huey Creek Tributary 1
Huey Creek Tributary 1.1
Huey Creek Tributary 2
Huey Creek Tributary 3
Hurricane Creek
Hurricane Creek Tributary A
Hurricane Creek Tributary B
Hurricane Creek Tributary C
Hurricane Creek Tributary D
Hurricane Creek Tributary E
Kraft Creek
Lion Branch
Lion Branch Tributary A
Lion Branch Tributary B
Little Hurricane Creek
Little Hurricane Creek Tributary A
Margie Branch
Mill Creek
Mill Creek Tributary 1
Miller Creek
Miller Creek Tributary A
Palmer Branch
Palmer Branch Tributary A
Palmer Branch Tributary B
Palmer Branch Tributary C
Park Creek
Pine Creek
Pinewood Branch
Pinewood Branch Tributary A
Shell Creek
Shoals Branch
Shoals Branch Tributary A
Shoals Branch Tributary B
Spivey Branch
Spivey Branch Tributary A
Spivey Branch Tributary B
Sweetwater Creek
Sweetwater Creek Tributary A
Sweetwater Creek Tributary B
Sweetwater Creek Tributary C
Sweetwater Creek Tributary D

Sweetwater Creek Tributary E	Sweetwater Creek Tributary L.1
Sweetwater Creek Tributary F	Sweetwater Creek Tributary L.3
Sweetwater Creek Tributary G	Sweetwater Creek Tributary L.3.1
Sweetwater Creek Tributary H	Sweetwater Creek Tributary J
Sweetwater Creek Tributary I	Tyree Branch
Sweetwater Creek Tributary J	Unnamed Tributary to Southern Lake
Sweetwater Creek Tributary K	Zion Branch
Sweetwater Creek Tributary L	

Approximate analyses were used to study those areas having low development potential or minimal flood hazards. The scope and methods of study were proposed to and agreed upon by FEMA and Douglas County.

The following tabulation presents Letters of Map Change (LOMCs) incorporated into this countywide study:

LOMC	Case Number	Date Issued	Project Identifier
LOMR*	09-04-6891P	6/14/2010	Unnamed Tributaries, Douglas Co.
LOMR*	10-04-4871P	05/02/2011	Dog River Dam Renovation

*Letter of Map Revision (LOMR)

The following tabulation lists streams that have names in this countywide FIS other than those used in the previously printed initial countywide FIS reports for the communities in which they are located.

Community	Old Name	New Name
Douglas County (Unincorporated Areas)	Sweetwater Creek Tributary 1	Park Creek
Douglasville, City of Douglas County (Unincorporated Areas)	Gothards Creek Tributary 2	Mill Creek
Douglas County (Unincorporated Areas)	Gothards Creek Tributary 3	Gothards Creek Tributary 8
Douglas County (Unincorporated Areas)	Gothards Creek Tributary 4	Gothards Creek Tributary 11

2.2 Community Description

Douglas County was formed from portions of Cobb and Campbell Counties on October 17, 1870. It is named after the famous Illinois senator, Stephen A. Douglas. The county, encompassing 201 square miles, is located in northwest Georgia, approximately 15 miles west of the City of Atlanta. The incorporated communities within county boundaries are the Cities of Austell, Douglasville, and Villa Rica, which is not included in this study. The City of Douglasville is the county seat. Douglas County is bordered by Paulding County to the northwest,

Cobb County to the northeast, Fulton County to the southeast, and Carroll County to the west and southwest.
The topography of the county is typified by rolling hills and thickly wooded forests. Elevation varies from 700 to 1,250 feet NAVD. Of the more than 25 soil types in the county, three pose severe limitations to development: floodplain soils, soils with excessive slope, and rock soils. Above 38 percent of the county is composed of these soil types.

The entire county is located within the Chattahoochee River drainage basin. Mud Creek and Gothards Creek drain the northwestern portion of Douglas County. The Dog River-Mobley Creek watershed lies in the western portion of the county. The Anneewakee watershed drains the central portions of the county, and Sweetwater Creek drains eastern part of Douglas County.

The climate is characteristic of the southeastern United States, with mild winters and warm summers. Average winter temperatures are usually around freezing; only rarely dipping below zero. Summertime temperatures range from lows in the mid-60's degrees Fahrenheit (°F) to greater than 90° F. The growing season is long spanning from late March to early November. Rainfall averages 50 inches per year.

The population of Douglas County nearly doubled between 1960 and 1970 to a 1970 population of 28,659. By 1975, the population had increased by another 78 percent over 1970 totals, to 50,920. The county had an estimated population of 129,703 in 2009 according to the U.S. Census Bureau (U.S. Census Bureau, 2011). Much of this growth derives from the proximity of Douglas County to the Atlanta Metropolitan Area. This is further substantiated by the fact that, as of 1975, approximately 80 percent of the workers who live in Douglas County earn their living outside of the county.
The major employment areas within the county are manufacturing and clerical work. Although it has in the past, agriculture no longer plays a significant economic role.

Interstate Highway 20 provides Douglas County with a major transportation link with the City of Atlanta on the east and the State of Alabama approximately 40 miles to the west. State Highway 5 connects Douglas County with Carroll County to the south. Other major highways are State Highways 92 and 166 and U.S. Highway 78. The Norfolk Southern Railway provides east-west rail transportation between the City of Villa Rica, the City of Douglasville, and points outside the county.

2.3 Principal Flood Problems

Major floods have affected Douglas County in July 1916, November 1948, February 1961, February 1982, July 2005, and September 2009.

The July 1916 flood was generated by a tropical storm. This storm caused discharges of 12,600 cubic feet per second (cfs) on Sweetwater Creek, in the vicinity of the City of Austell, (USGS Gage No. 02337000) (USGS, 2007).

In November 1948, a well-developed, low-pressure center produced a maximum recorded rainfall of 8.25 inches at the City of Douglasville. A maximum 24-hour total of 3.75 inches fell on November 29th.

The February 1961 flood resulted from a tropical air mass across the Gulf of Mexico and the southeastern states combined with a long wave trough in the western states. The City of Douglasville recorded a total of 12.38 inches, with 5.19 inches reported on February 25th. This storm caused discharges of 10,100 cfs on Sweetwater Creek near the City of Austell (USGS Gage No. 02337000) (USGS, 2007).

The February 1982 and July 2005 floods had discharges of 10,700 cfs and 13,400 cfs, respectively, on Sweetwater Creek near the City of Austell (USGS Gage No. 02337000) (USGS, 2007).

The September 2009 flood had a maximum discharge record of 31,490 cfs and 30.82 feet from floodmarks on Sweetwater Creek near the City of Austell. (USGS Gage No. 02337000) (USGS, 2011).

2.4 Flood Protection Measures

The floodplains for the majority of the streams studied by detailed methods in the unincorporated areas of Douglas County are relatively undeveloped, with thick wooded areas lining the stream banks. Obstructions to flood flows include those which are natural (rock outcrops, brush-filled channels, trees and vegetation along banks) and those which are man-made (bridges and associated approach fills). A floodplain zoning ordinance has been enacted by Douglas County for the control of development in flood hazard areas.

Within the City of Douglasville, localized flooding occurs in low-lying areas mainly as a result of heavy rains and sediments entering stream channels.

The USACE, Mobile District, constructed the Buford Dam on the Chattahoochee River for flood control and power generation. This dam provides some flood protection to the area of Douglas County.

3.0 ENGINEERING METHODS

For the flooding sources studied by detailed methods in the community, standard hydrologic and hydraulic study methods were used to determine the flood hazard data required for this study. Flood events of a magnitude that are expected to be equaled or exceeded once on the average during any 10-, 50-, 100-, or 500-year period (recurrence interval) have been selected as having special significance for floodplain management and for flood insurance rates. These events, commonly termed the 10-, 50-, 100-, and 500-year floods, have a 10-, 2-, 1-, and 0.2-percent chance, respectively, of being equaled or exceeded during any year. Although the recurrence interval represents the long-term, average period between floods of a specific magnitude, rare floods could occur at short intervals or even within the same year. The risk of experiencing a rare flood increases when periods greater than 1 year are considered. For example, the risk of having a flood that equals or exceeds the 1-percent-annual-chance (100-year) flood in any 50-year period is approximately 40 percent (4 in 10); for any 90-year period, the risk increases to approximately 60 percent (6 in 10). The analyses reported herein reflect flooding potentials based on conditions existing in the community at the time of completion of this study. Maps and flood elevations will be amended periodically to reflect future changes.

3.1 Hydrologic Analyses

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Initial Countywide FIS Report

The flood flow-frequency data adopted for the Chattahoochee River and Sweetwater Creek were based on analyses performed by the USACE, Mobile District. The Mobile District prepared flood predictions for the Sweetwater Creek Basin and the Chattahoochee River using a log-Pearson Type III analysis as outlined in the Water Resources Council (WRC) Bulletin No. 15 (WRC, 1967), the Sauer-Golden Method (USGS, 1977), and a drainage area-river mile-discharge correlation technique.

The Chattahoochee River reach between Fairburn Road/State Highway 92 and the upstream county boundary was updated with more current gage records from the Vinings gage since the Buford Dam began operation. Three separate hydrologic analyses were performed for the area.

The first approach consisted of a log-Pearson Type III distribution using a regional skew of zero which fit the plotted data and was adopted for this study. The March 1977 flood, which had the highest observed discharge (28,900 cfs) since the Buford Dam began operation, would be approximately a 5.56-percent-annual-chance flood on the curve. In conjunction with the gage analyses, the contribution of tributary flow to flood peaks in the river was estimated. The March 1977 and the April 1979 floods were selected for analysis because they were pertinent to the restudy and the flood hydrographs were readily available at several locations.

The flood hydrograph for Peachtree Creek at the Northside Drive gage was routed to the river and increased by the drainage area ratio to estimate the Peachtree Creek flow at its mouth. This hydrograph was then added to the City of Vinings gage hydrograph which was lagged to allow for the distance between the 2 points. This resulted in the estimated total flow in the river at the junction of Peachtree Creek with the Chattahoochee River.

A similar procedure was followed at Sweetwater Creek. Sweetwater Creek hydrograph characteristically peaks later than the river. The Sweetwater Creek hydrographs are flatter than those of Peachtree Creek, which causes their effect on the river to be more consistent and less drastic.

Effects of tributaries where no observed data were available were estimated by applying the drainage area ratios to the main stream flow.

The estimated flow distributions on the Chattahoochee River for the March 1977 and April 1979 floods were plotted as discharge versus river mile. The discharge-frequency relationship for the 10-, 2-, 1-, and 0.2-percent-annual-chance floods was left unchanged at Fairburn Road/State Highway 92 and then transitioned within the reach to incorporate the revised frequency curve at the City of Vinings gage. The discharge-frequency relationship for points between the gaging stations was estimated by prorating the difference in adjacent discharge-frequency curves by the drainage area ratio. One exception to this was the discharge estimated at Marietta Boulevard (downstream of the City of Vinings gage) which includes the flow from Peachtree Creek. Discharges at Marietta Boulevard were obtained using runoff rates computed from the local contribution between the City of Norcross and the City of Vinings gages which were higher than those obtained from the local contribution between the Cities of Vinings and Fairburn. This was done to account for the high degree of urbanization in the Peachtree Creek watershed. Because of the higher flows per unit area adopted at this point, a slight attenuation was required to tie in downstream (USACE, 1981).

The two alternative hydrologic analyses that were used for comparison purposes included a discharge-frequency analysis for the 410 square mile uncontrolled area above the City of Vinings gage using equations from a USGS report (USGS, 1977) with allowances for Buford Dam power releases, and a comparison of pre- to post-Buford Dam discharges. The comparison computed a frequency curve for natural conditions using only the data observed before operations began at the Buford Dam.

The flood-flow frequency relationships for Gordon Creek, Gothards Creek, Mill Creek, Gothards Creek Tributary 8, Gothards Creek Tributary 11, Mobley Creek, Mobley Creek Tributary 5, Mobley Creek Tributary 6, Mobley Creek Tributary 7, Mud Creek, Pine Creek, Park Creek, Town Branch, and Waterfall Branch were developed using the Sauer-Golden Method (USGS, 1977). This technique incorporates an urbanization factor into the Golden-Price method (Golden and Price, 1976), which was developed to predict floods in rural watersheds of Georgia. The Sauer method considers urbanization effects, resulting in consistently conservative flood predictions.

For the portion of Sweetwater Creek that was incorporated from the September 29, 2006, FIS (FEMA, 2006) for Paulding County, peak discharges were developed from data supplied by a recording gage located 3 miles southeast of the City of Austell, in Cobb County. This gage has been in operation since 1904, with continuous records since 1937. The stage-discharge relationship is defined by current-meter measurements below 6,500 cfs, and extended above on the basis of contracted-opening measurement at 10,000 cfs.

On streams where gage data are available, such as Sweetwater Creek, peak discharges were developed using an empirical formula that determines peak flows at locations on the stream other than the gage station sites. The formula is a ration between peak discharge and drainage area and is written as:

$$Q_1/Q_2=(A_1/A_2)^m$$

Where Q_1=Discharge at point of interest
Q_2=Discharge at gage site
A_1=Drainage area above point of interest
A_2=Drainage area above gage site
m=A factor normally ranging from 0.5 to 1.0
Note: for Sweetwater Creek, m=0.5

For the portion of Gothards Creek that was incorporated from the FIS for Paulding County, equations for calculating the magnitude and frequency of peak-flood discharges on small streams (rural basins draining from 0.1 to 20 square miles) were used (USGS, 1973b).

Comprehensive hydrologic models were created for the Anneewakee Creek and Bear Creek Basins and the limited detailed analyses for Beaver Creek, Huey Creek, Huey Creek Tributary A, Margie Branch, Miller Creek, Miller Creek Tributary A, and Pinewood Branch using the USACE, Hydrologic Engineering Center (HEC) computer program, HEC-HMS, version 2.0 (HEC, 2000) to compute runoff hydrographs and associated peak discharges at relevant locations in the study area. The hydrologic models used the Soil Conservation Service (SCS) methodology (SCS, 1986) to define the peak runoff rates for the basins.

This Countywide FIS Report

Hydrologic analyses were carried out to establish peak discharge-frequency relationships for each flooding source studied by detailed methods affecting the community.

The discharge-frequency relationship for the Chattahoochee River was based on an analytical curve (log-Pearson Type III distribution) using the records at the USGS gages since Buford Dam began operation, and a regional skew of zero that fitted the plotted data and was adopted for this study (USGS, 1999). Frequency discharges for points between the gage stations were estimated by prorating the difference in adjacent frequency curves by the drainage area ratio.

The discharge-frequency relationship for Sweetwater Creek was based on a series of analyses starting with USGS stream flow gage at the City of Austell. Because several additional gage results were available along Sweetwater Creek during the 1982 flood, the recurrence interval of 25-years was approximated for this storm using a statistical analysis of the City of Austell gage based on procedures outlined in WRC Bulletin 17B (WRC, 1982). Area-weighted flows were determined at each of the remaining gages assuming the 1982 flood was the 25-year storm. This data was used to estimate a correction factor and overall multiplier for each gage, and this multiplier was used to determine peak flows for all storms at each gage.

For Gothards Creek, Park Creek, Hurricane Creek, and Sweetwater Creek basins the USACE, HEC computer program, HEC-HMS, version 3.4 was used to compute peak discharges (HEC, 2009).

The 24-hour rainfall depths for the 1-percent-annual-chance frequency storms were obtained from the Georgia Stormwater Management Manual (Atlanta Regional Commission, 2001). A rainfall amount of 7.92 inches, for the 1-percent-annual-chance storm, was applied uniformly over the entire Anneewakee Creek and Bear Creek Basins. Rainfall was converted to runoff utilizing the Curve Number methodology (SCS, 1986) for Anneewakee Creek, Bear Creek, Hurricane Creek, Sweetwater Creek, Park Creek, and Gothards Creek basins. The curve numbers for the Anneewakee Creek subcatchments varied from 61-92 with an

average of 72.4. The curve numbers for the Bear Creek subcatchments varied from 61-91 with an average of 70.5.

Subcatchments for each major basin were delineated using Digital Elevation Models (DEMs) created from Light Detection and Ranging (LiDAR) data (Photo Science Geospatial Solutions, 2004) available from Douglas County. The time of concentration was determined for each subcatchment using SCS methods (SCS, 1986). Channel routing simulated the in-stream storage and effects on travel time that lead to subcatchment hydrograph attenuation, and was performed using the Muskingum-Cunge routing technique for the Anneewakee Creek, Bear Creek, Hurricane Creek, and Sweetwater Creek basins. For Gothards Creek and Park Creek basins, the Modified Puls Method was used for reach routing.

There were a total of 116 lakes located within the Anneewakee Creek Basin study area. Thirty-one of these lakes, determined to have a significant effect on stream discharges, were included in the hydrologic model.

There were a total of 170 lakes located within the Bear Creek Basin study area. Of these, 44 lakes were included in the hydrologic model.

For Keaton Creek Tributaries 1 and 2, which were studied by limited detailed methods, the peak discharge for the 1-percent-annual-chance flood was estimated using the regression equations published by the USGS (USGS, 1999).

Discharges for all approximate studies within the Sweetwater Creek, Hurricane Creek, and Chattahoochee tributaries were developed using a combination of the rural USGS regression equations (USGS, 2009), urban USGS regression equations (Inman, 1995), or USGS gage data. Both rural and urban regression flows were run for all flow change location points and the higher discharge of the two was used, as was recommended in Inman. If sufficient gage data was available it was used instead of the regression equations. Drainage areas were developed from 20-foot DEMs developed from the best available topographic data.

Peak discharge-drainage area relationships for the 10-, 2-, 1-, and 0.2-percent-annual-chance floods of each flooding source studied in detail in the county are presented in Table 5.

Table 5 - Summary of Discharges

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Alexander Branch					
At the confluence with Bear Creek	1.43	1,070	1,519	1,714	2,232
Just downstream of the confluence of Alexander Branch Tributary A	1.36	1,043	1,479	1,668	2,155
Just downstream of the confluence of Alexander Branch Tributary B	0.80	459	680	780	1,032
Approximately 3,640 feet upstream of confluence of Alexander Branch Tributary B	0.15	221	321	365	475
Alexander Branch Tributary A					
At the confluence with Alexander Branch	0.36	406	606	695	917
Just upstream of Cougar Trail	0.34	401	598	685	904
Alexander Branch Tributary B					
At the confluence with Alexander Branch	0.45	160	220	246	311
Just downstream of Lake Sarah Glenn	0.40	51	72	81	153
Amber Creek					
At the confluence with Anneewakee Creek	1.11	966	1,665	1,950	2,645
Just downstream of the confluence of Amber Creek Tributary A	0.81	774	1,259	1,465	1,980
Just upstream of the confluence of Amber Creek Tributary A	0.38	435	651	746	984
Amber Creek Tributary A					
At the confluence with Amber Creek	0.31	400	597	685	912
Anneewakee Creek					
At the confluence with the Chattahoochee River	29.89	6,024	9,286	10,744	14,493
Just downstream of the confluence of Anneewakee Creek Tributaries A and B	29.36	6,499	9,924	11,496	15,560
Just downstream of the confluence of Chapel Farms Creek	28.47	6,421	9,818	11,379	15,409
Just downstream of the confluence of Anneewakee Creek Tributary C	25.82	6,366	9,696	11,232	15,213
Just upstream of the confluence of Amber Creek	25.19	6,364	9,682	11,214	15,204
Just downstream of the confluence of Annewakee Creek Tributary D	23.78	6,232	9,479	10,970	14,821

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Anneewakee Creek *(Continued)*					
Approximately 680 feet upstream of Anneewakee Road	23.06	6,200	9,431	10,913	14,780
Just upstream of the confluence of Crooked Creek	22.82	6,172	9,381	10,849	14,622
Just downstream of the confluence of Simon Creek	19.01	5,122	7,692	8,840	11,688
Just downstream of the confluence of Anneewakee Creek Tributary F	18.02	5,038	7,548	8,669	11,421
Just downstream of the confluence of Bomar Branch	17.61	4,992	7,474	8,584	11,307
Just downstream of the confluence of Farm Branch	16.70	5,359	8,112	9,326	12,291
Just downstream of the confluence of Anneewakee Creek Tributary G	16.40	5,775	8,739	10,011	13,136
Just downstream of the confluence of Anneewakee Creek Tributary H	16.03	5,868	8,861	10,146	13,307
Just downstream of the confluence of Anneewakee Creek Tributary I	15.69	6,323	9,552	10,930	14,348
Just downstream of the confluence of Little Anneewakee Creek	8.94	6,837	10,286	11,756	15,413
Just downstream of the confluence of Crossing Branch	7.21	3,706	5,360	6,076	7,852
Just downstream of the confluence of Austin Creek	6.08	3,921	5,489	6,162	7,827
Just downstream of the confluence of Anneewakee Creek Tributary J	5.42	3,526	4,866	5,428	6,790
Just downstream of the confluence of Knollwood Branch	4.27	3,697	5,053	5,620	6,972
Just downstream of the confluence of Arbor Branch	2.26	2,518	3,321	3,623	4,300
Just downstream of the confluence of Tiger Creek	1.64	1,548	2,123	2,365	2,879
Just upstream of the confluence of Tiger Creek	1.63	708	1,035	1,209	1,676
Just downstream of the confluence of Anneewakee Creek Tributary K	1.29	956	1,399	1,639	2,242
Just downstream of the confluence of Anneewakee Creek Tributary L	0.75	626	1,018	1,260	1,821
Just upstream of the confluence of Anneewakee Creek Tributary L	0.38	291	556	725	1,128
Anneewakee Creek Tributary A					
At the confluence with Anneewakee Creek	0.33	185	285	398	783
Approximately 1,000 feet upstream of the confluence with Anneewakee Creek	0.25	69	256	357	708

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Anneewakee Creek Tributary B					
At the confluence with Anneewakee Creek	0.23	307	455	522	692
Anneewakee Creek Tributary C					
At the confluence with Anneewakee Creek	0.19	378	546	620	807
Anneewakee Creek Tributary D					
At the confluence with Anneewakee Creek	0.27	317	467	536	707
Anneewakee Creek Tributary E					
At the confluence with Anneewakee Creek	0.24	208	306	349	459
Anneewakee Creek Tributary F					
At the confluence with Anneewakee Creek	0.36	311	462	529	703
Anneewakee Creek Tributary G					
At the confluence with Anneewakee Creek	0.30	222	370	487	777
Approximately 2,350 feet upstream of Warren Road	0.29	117	221	303	473
Anneewakee Creek Tributary H					
At the confluence with Anneewakee Creek	0.25	289	422	480	628
Anneewakee Creek Tributary I					
At the confluence with Anneewakee Creek	0.26	466	674	765	995
Anneewakee Creek Tributary J					
At the confluence with Anneewakee Creek	0.23	352	502	567	731
Anneewakee Creek Tributary K					
At the confluence with Anneewakee Creek	0.95	132	198	226	292
Anneewakee Creek Tributary L					
At the confluence with Anneewakee Creek	0.32	255	368	418	544
At the confluence with Anneewakee Creek	1.69	1,170	1,450	1,565	1,794
Approximately 500 feet downstream of State Highway 5	0.99	1,717	2,304	2,546	3,154
Just downstream of the confluence of Arbor Branch Tributary A	0.52	903	1,156	1,268	1,547
Arbor Branch Tributary A					
At the confluence with Arbor Branch	0.40	285	335	357	410

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Austin Creek					
At the confluence with Anneewakee Creek	1.00	374	600	707	985
Just upstream of Yancey Road	0.43	356	521	595	790
Baldwin Creek					
At the confluence with Little Bear Creek	2.41	1,731	2,585	2,976	4,004
At Bear Creek Golf Course	2.20	1,761	2,647	3,055	4,097
Just downstream of the confluence of Baldwin Creek Tributary A	1.13	1,345	1,985	2,265	2,959
Just upstream of North Bear Drive	0.27	354	507	574	743
Baldwin Creek Tributary A					
At the confluence with Baldwin Creek	0.35	394	585	678	885
Just upstream of Dorsett Shoals Road	0.12	230	334	380	496
Bear Creek					
At the confluence with Chattahoochee River	17.55	4,180	6,484	7,574	10,479
Just downstream of the confluence of Bear Creek Tributary A	17.39	4,269	6,685	7,832	10,913
Just downstream of the confluence of Bear Creek Tributary B	17.13	4,259	6,669	7,814	10,893
Just downstream of Bear Creek Reservoir	16.79	4,281	6,713	7,877	11,012
Just downstream of the confluence of Little Bear Creek	15.70	4,385	6,886	8,094	11,374
Just downstream of the confluence of Bear Creek Tributary D	5.90	2,310	3,441	3,987	5,541
Just downstream of the confluence of Bear Creek Tributary F	5.97	2,168	3,250	3,810	5,317
Just downstream of the confluence of Bear Creek Tributary G	4.81	1,985	3,163	3,706	5,154
Just downstream of Kings Highway	4.29	1,899	3,030	3,544	4,901
Just downstream of the confluence of Dorsett Creek	4.01	1,969	3,162	3,700	5,116
Just downstream of the confluence of Alexander Branch	3.13	1,720	2,809	3,287	4,452
Just upstream of South Skyline Drive	0.58	691	1,076	1,251	1,693
Just downstream of Hillpine Drive	0.33	492	724	827	1,089

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Bear Creek Tributary A					
At the confluence with Bear Creek	0.25	315	465	538	752
Approximately 1,180 feet upstream of the confluence with Bear Creek	0.16	233	346	398	529
Bear Creek Tributary B					
At the confluence with Bear Creek	0.10	179	261	297	388
Bear Creek Tributary C					
At the confluence with Bear Creek	0.35	308	453	517	684
Just downstream of Fouts Mill Road	0.28	415	613	702	929
Bear Creek Tributary D					
At the confluence with Bear Creek	0.20	355	527	602	792
At Double Birch Road	0.14	252	368	420	551
Bear Creek Tributary E					
At the confluence with Bear Creek	0.22	103	172	272	530
Approximately 1,160 feet upstream of the confluence with Bear Creek	0.17	30	152	242	466
Bear Creek Tributary F					
At the confluence with Bear Creek	0.35	518	760	868	1,152
Just downstream of Yorktown Road	0.26	421	617	704	924
Bear Creek Tributary G					
At the confluence with Bear Creek	0.18	217	319	365	481
Beaver Creek					
At the confluence with Sweetwater Creek	13.60	2,260	3,202	3,573	5,195
Approximately 650 feet downstream of Lee Road	10.30	2,221	2,957	3,268	5,290
Approximately 150 feet downstream of the confluence of Miller Creek	2.43	1,416	2,275	2,685	3,892
Approximately 260 feet downstream of the confluence of Margie Branch	0.69	907	1,466	1,764	2,610
Beaver Creek Tributary A					
At the confluence with Beaver Creek	0.24	112	231	276	373
Bomar Branch					
At the confluence with Anneewakee Creek	0.35	418	609	694	909

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Camp Branch					
At the confluence with Hurricane Creek	0.78	652	1,117	1,353	1,939
Approximately 5,530 feet upstream of the confluence with Hurricane Creek	0.37	500	816	958	1,318
Approximately 1,100 feet upstream of the confluence of Camp Branch Tributary A	0.20	269	435	509	697
Camp Branch Tributary A					
At the confluence with Camp Branch	0.08	114	189	222	308
Chapel Farms Creek					
At the confluence with Anneewakee Creek	2.33	2,058	3,225	3,745	5,082
At the confluence of Panther Creek	1.13	871	1,437	1,692	2,347
At Bald Eagle Way	0.76	678	1,097	1,276	1,721
Just downstream of the confluence of Chapel Farms Creek Tributary A	0.25	264	386	440	578
Chapel Farms Creek Tributary A					
At the confluence with Chapel Farms Creek	0.23	239	377	438	595
Chattahoochee River					
Just downstream of the confluence of Sweetwater Creek	2,243	40,420	53,817	59,595	73,537
Just downstream of the confluence of Anneewakee Creek	2,093	38,145	50,688	56,087	69,086
Just downstream of the confluence of the Dog River	1,968	35,369	46,873	51,809	63,657
Coursey Creek					
At the confluence with Little Bear Creek	0.71	172	444	587	919
Just above Dorsett Shoals Road	0.44	256	417	491	722
Crooked Creek					
At the confluence with Anneewakee Creek	3.54	1,760	2,800	3,296	4,560
Just downstream of Pope Road	3.20	1,776	2,848	3,359	4,662
Just downstream of the confluence of Crooked Creek Tributary A	2.21	1,790	2,983	3,542	4,994
Just downstream of the confluence of Crooked Creek Tributary B	1.99	1,305	2,196	2,641	3,734
Just downstream of the confluence of Crooked Creek Tributary C	1.80	1,186	1,992	2,392	3,320
Just downstream of the confluence of Crooked Creek Tributary D	1.19	1,161	1,900	2,187	2,902

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Crooked Creek *(Continued)*					
Just upstream of Bomar Road	0.66	898	1,283	1,452	1,881
Approximately 4,070 feet upstream of Bomar Road	0.11	685	979	1,107	1,429
Crooked Creek Tributary A					
At the confluence with Crooked Creek	0.64	378	800	1,001	1,501
Just upstream of Legion Lake	0.30	475	691	786	1,027
Crooked Creek Tributary B					
At the confluence with Crooked Creek	0.33	363	530	604	792
Crooked Creek Tributary C					
At the confluence with Crooked Creek	0.28	370	538	613	802
Crooked Creek Tributary D					
At the confluence with Crooked Creek	0.28	185	383	460	638
Approximately 1,700 feet upstream of the confluence with Crooked Creek	0.22	224	347	403	542
Crossing Branch					
At the confluence with Anneewakee Creek	0.84	342	505	577	756
Approximately 1,500 feet upstream of Chapel Crossing	0.35	422	612	696	908
Dog River					
Approximately 6,480 feet Upstream of State Highway 166	78.5	11,520	17,580	19,610	24,710
Just downstream of Douglas County Water Reservoir Dam	78.5	11,400	17,280	19,230	24,500
Dorsett Creek					
At the confluence with Bear Creek	0.65	658	931	1,056	1,380
At Gray Road	0.47	440	607	692	910
At Lakeshore Drive	0.30	195	369	427	587
Dry Creek					
At the confluence of Beaver Creek	2.29	571	1,124	1,495	2,158
Approximately 140 feet downstream of the confluence of Tributary A to Dry Creek	1.80	1,610	2,396	2,753	3,646
Approximately 1,050 feet downstream of the confluence of Tributary B to Dry Creek	1.10	1,157	1,739	2,014	2,739
Approximately 450 feet downstream of Lee Road	0.30	335	502	576	761

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Dry Creek Tributary A					
At the confluence with Dry Creek	0.23	599	845	948	1,219
Dry Creek Tributary B					
At the confluence with Dry Creek	0.21	150	225	259	342
Dry Creek Tributary C					
At the confluence with Dry Creek	0.18	278	435	505	681
Farm Branch					
At the confluence with Anneewakee Creek	0.57	549	809	925	1,252
Just upstream of the confluence of Farm Branch Tributary A	0.24	546	799	911	1,196
Farm Branch Tributary A					
At the confluence with Farm Branch	0.27	275	405	464	612
Gordon Creek					
At the confluence with Sweetwater Creek	2.72	1,543	1,961	2,170	3,930
Approximately 330 feet upstream of Thornton Road/ State Highway 6	2.57	1,502	1,904	2,111	3,891
Approximately 5,150 feet upstream of the confluence with Sweetwater Creek	2.28	2,145	3,189	3,656	4,905
Gothards Creek					
At the confluence of Gothards Creek Tributary 1	21.16	2,325	4,454	5,534	8,259
At the confluence of Gothards Creek Tributary 8	8.94	1,796	3,198	4,188	6,375
Approximately 350 feet downstream of the confluence of Gothards Creek Tributary 12	2.41	638	1,058	1,235	1,720
Approximately 5,000 feet upstream of Cedar Mountain Road	0.33	251	452	553	802
Gothards Creek Tributary 1					
At the confluence with Gothards Creek	0.21	188	311	368	512
Gothards Creek Tributary 2					
At the confluence with Gothards Creek	0.23	33	46	76	264
Approximately 4,100 feet upstream of the confluence with Gothards Creek	0.18	165	285	340	482
Gothards Creek Tributary 2.1					
At the confluence with Gothards Creek Tributary 2	0.04	50	85	100	140

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Gothards Creek Tributary 3					
At the confluence with Gothards Creek	0.92	465	812	978	1,406
At the confluence of Gothards Creek Tributary 3.2	0.44	84	144	174	251
At North Hickory Lane	0.14	74	124	148	207
Gothards Creek Tributary 3.1					
At the confluence with Gothards Creek Tributary 3	0.32	103	171	203	286
Gothards Creek Tributary 3.2					
At the confluence with Gothards Creek Tributary 3	0.23	232	382	450	623
Gothards Creek Tributary 4					
At the confluence of Gothards Creek	1.00	636	1,282	1,607	2,249
At the confluence of Gothards Creek Tributary 4.1	0.82	443	688	844	1,256
Approximately 3,370 feet upstream of the confluence of Gothards Creek Tributary 4.1	0.17	178	292	344	475
Gothards Creek Tributary 4.1					
At the confluence of Gothards Creek Tributary 4	0.50	443	688	844	1,256
Approximately 2,990 feet upstream of the confluence of Gothards Creek Tributary 4.1.1	0.17	169	284	337	472
Gothards Creek Tributary 4.1.1					
At the confluence with Gothards Creek Tributary 4.1	0.21	225	322	383	586
Approximately 1,840 upstream of the county boundary	0.14	188	295	343	464
Gothards Creek Tributary 6					
At the confluence with Gothards Creek	0.22	200	341	406	572
Gothards Creek Tributary 8					
At the confluence with Gothards Creek	1.62	659	1,077	1,304	1,968
Just upstream of Cedar Mountain Road	1.04	393	655	774	1,083
Gothards Creek Tributary 8.1					
At the confluence with Gothards Creek Tributary 8	0.38	266	424	507	773
Gothards Creek Tributary 9					
At the confluence with Gothards Creek	0.48	347	617	742	1,078

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Gothards Creek Tributary 10					
At the confluence with Gothards Creek	0.36	206	353	421	575
Gothards Creek Tributary 11					
At the confluence of Gothards Creek	3.12	1,236	2,283	2,778	4,092
At the confluence of Gothards Creek Tributary 11.3	1.39	1,022	1,796	2,130	2,949
Approximately 4,960 feet upstream of the confluence of Gothards Creek Tributary 11.3	0.24	254	412	483	663
Gothards Creek Tributary 11.1					
At the confluence with Gothards Creek Tributary 11	0.24	252	422	497	707
Gothards Creek Tributary 11.2					
At the confluence with Gothards Creek Tributary 11	0.53	285	526	657	996
Gothards Creek Tributary 11.3					
At the confluence with Gothards Creek Tributary 11	0.52	537	995	1,198	1,682
Gothards Creek Tributary 12					
At the confluence with Gothards Creek	0.31	323	539	640	890
Gothards Creek Tributary 15					
At the confluence with Gothards Creek	0.22	178	339	405	570
Hickory Creek					
At the confluence with Beaver Creek	4.32	2,743	4,154	4,745	6,222
Approximately 1,830 feet upstream of the confluence of Spivey Branch	2.15	1,445	2,166	2,462	3,221
Approximately 90 feet downstream of the confluence of Tributary C to Hickory Creek	1.38	864	1,274	1,449	1,899
Approximately 1,280 feet upstream of the confluence of Tributary E to Hickory Creek	0.21	280	399	451	581
Hickory Creek Tributary A					
At the confluence with Hickory Creek	0.22	216	308	335	387
Hickory Creek Tributary B					
At the confluence with Hickory Creek	0.20	131	193	220	287

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Hickory Creek Tributary C					
At the confluence with Hickory Creek	0.47	262	356	399	454
Hickory Creek Tributary D					
At the confluence with Hickory Creek	0.26	622	913	1,041	1,364
Approximately 1,250 feet upstream of Lakeland Hills Drive	0.14	376	548	624	814
Hickory Creek Tributary E					
At the confluence with Hickory Creek	0.18	100	155	179	240
Huey Creek					
At Maroney Mill Road	2.79	1,337	2,366	2,876	4,078
At Malone Road	1.21	793	1,291	1,535	2,163
At Linecrest Drive	0.48	495	812	946	1,300
Huey Creek Tributary 1					
At the confluence with Huey Creek	1.21	800	1,329	1,573	2,191
Huey Creek Tributary 1.1					
At the confluence with Huey Creek Tributary 1	0.28	252	425	500	693
Huey Creek Tributary 2					
At the confluence with Huey Creek	0.11	210	351	400	389
Huey Creek Tributary 3	0.22	125	216	270	389
At the confluence with Huey Creek					
Hurricane Creek					
Approximately 70 feet downstream of State Highway 5	4.84	2,108	3,755	4,631	6,733
Approximately 25 feet upstream of Post Road	3.39	1,918	3,615	4,437	6,254
Approximately 80 feet downstream of the confluence with Hurricane Creek	0.73	667	1,086	1,323	1,765
Hurricane Creek Tributary A					
At the confluence with Hurricane Creek	0.33	324	507	588	787
Hurricane Creek Tributary B					
At the confluence with Hurricane Creek	0.18	282	472	556	775
Hurricane Creek Tributary C					
At the confluence with Hurricane Creek	0.27	307	517	612	857

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Hurricane Creek Tributary D					
At the confluence with Hurricane Creek	0.37	318	522	614	848
Hurricane Creek Tributary E					
At the confluence with Hurricane Creek	0.25	119	199	236	330
Knollwood Branch					
At the confluence with Anneewakee Creek	1.12	1,446	2,094	2,376	3,081
Just downstream of the confluence of Knollwood Branch Tributary A	0.45	797	1,136	1,284	1,655
Just upstream of the confluence of Knollwood Branch Tributary A	0.25	409	586	663	856
Knollwood Branch Tributary A					
At the confluence with Knollwood Branch	0.20	414	587	663	851
Kraft Creek					
At the confluence with Hurricane Creek	0.11	312	528	626	879
Approximately 450 feet upstream of Kraft Drive	0.10	131	222	263	369
Kraft Creek Tributary A					
At the confluence with Kraft Creek	0.14	182	310	368	518
Lion Branch					
At the confluence with Beaver Creek	2.31	1,366	2,159	2,479	3,273
Approximately 170 feet downstream of East County Line Road	1.74	1,077	1,692	1,943	2,558
Approximately 940 feet downstream of Mack Road	0.54	741	1,068	1,201	1,530
Lion Branch Tributary A					
At the confluence with Lion Branch	0.21	130	197	228	306
Lion Branch Tributary B					
At the confluence with Lion Branch	0.20	687	1,120	1,282	1,690
Little Anneewakee Creek					
At the confluence with Anneewakee Creek	6.52	3,821	5,690	6,509	8,521
Just downstream of the confluence of Little Anneewakee Creek Tributary A	6.44	4,135	5,956	6,817	8,959

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Little Anneewakee Creek *(Continued)*					
Just downstream of the confluence of Little Anneewakee Creek Tributary B	5.58	3,768	5,419	6,159	8,023
Just downstream of the confluence of Little Anneewakee Creek Tributary C	5.05	3,711	5,402	6,143	8,016
Just downstream of confluence of Slater Mill Creek	4.55	3,877	5,627	6,398	8,351
Just downstream of the confluence of Little Anneewakee Creek Tributary D	1.91	1,388	2,023	2,304	3,017
Just downstream of confluence with Tributary E to Little Anneewakee Creek	1.55	1,270	1,839	2,086	2,707
Just upstream of Shawnee Lake at Fairburn Road	0.97	1,087	1,474	1,642	2,046
Just upstream of Interstate Highway 20	0.28	510	663	724	853
Little Anneewakee Creek Tributary A					
At the confluence with Little Anneewakee Creek	0.78	555	984	1,178	1,657
At Grace Lake Drive	0.34	1,215	1,704	1,915	2,444
Little Anneewakee Creek Tributary B					
At the confluence with Little Anneewakee Creek	0.18	356	514	584	758
Little Anneewakee Creek Tributary C					
At the confluence with Little Anneewakee Creek	0.31	416	607	692	906
Little Anneewakee Creek Tributary D					
At the confluence with Little Anneewakee Creek	0.33	554	771	870	1,132
Little Anneewakee Creek Tributary E					
At the confluence with Little Anneewakee Creek	0.24	377	527	592	753
Little Bear Creek					
At the confluence with Bear Creek	9.67	2,296	3,670	4,344	6,168
Just downstream of the confluence of Baldwin Creek	9.56	3,142	4,764	5,534	7,726
Just downstream of the confluence of Little Bear Creek Tributary A	6.67	1,954	3,177	3,739	5,272

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Little Bear Creek *(Continued)*					
Just downstream of the confluence of Little Bear Creek Tributary C	5.81	2,012	3,338	3,942	5,642
Just downstream of the confluence of Tanyard Branch	5.17	2,168	3,650	4,431	6,484
Just downstream of the confluence of Coursey Creek	3.31	1,484	2,523	2,975	4,174
Just downstream of the confluence of Little Bear Creek Tributary D	2.57	1,350	2,158	2,528	3,502
Just downstream of the confluence of Little Bear Creek Tributary E	2.18	1,419	2,232	2,594	3,543
At Dorsett Shoals Road	1.08	994	1,425	1,626	2,141
Just downstream of the confluence of Little Bear Creek Tributary F	0.78	821	1,218	1,394	1,843
Just upstream of the confluence of Little Bear Creek Tributary F	0.47	454	659	747	970
Approximately 5,550 feet upstream of confluence of Little Bear Creek Tributary F	0.11	147	216	246	324
Little Bear Creek Tributary A					
At the confluence with Little Bear Creek	0.54	631	967	1,122	1,511
Just upstream of the confluence of Little Bear Creek Tributary B	0.29	363	538	616	817
Little Bear Creek Tributary B					
At the confluence with Little Bear Creek Tributary A	0.17	207	327	381	517
Little Bear Creek Tributary C					
At the confluence with Little Bear Creek	0.55	714	1,066	1,220	1,610
Approximately 4,760 feet upstream of the confluence with Little Bear Creek	0.29	426	624	711	940
Little Bear Creek Tributary D					
At the confluence with Little Bear Creek	0.33	381	569	650	861
Approximately 3,150 feet upstream of the confluence with Little Bear Creek	0.20	295	432	493	645
Little Bear Creek Tributary E					
At the confluence with Little Bear Creek	0.83	398	720	876	1,308
Approximately 4,905 feet upstream of the confluence with Little Bear Creek	0.14	253	367	418	545

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Little Bear Creek Tributary F					
At the confluence with Little Bear Creek	0.31	396	590	677	897
Approximately 2,055 feet upstream of the confluence with Little Bear Creek	0.21	333	480	544	706
Little Hurricane Creek					
At the confluence with Hurricane Creek	2.25	1,809	3,084	3,664	4,947
Approximately 50 feet upstream of Whitestone Boulevard	1.38	1,244	2,035	2,356	3,310
Approximately 1,350 feet upstream of Shady Creek Lane	0.35	513	801	929	1,256
Little Hurricane Creek Tributary A					
At the confluence with Little Hurricane Creek	0.52	345	845	1,155	1,786
Margie Branch					
At the confluence with Beaver Creek	1.04	434	832	1,051	1,792
Just upstream of Margie Lane	0.51	252	642	838	1,417
Margie Branch Tributary A					
At the confluence with Margie Branch	0.12	101	150	178	242
Mill Creek					
At the confluence with Gothards Creek	1.73	1,013	2,140	2,447	3,765
At Chicago Avenue	0.20	218	357	419	579
Mill Creek Tributary 1					
At the confluence with Mill Creek	0.53	506	835	979	1,370
Miller Creek					
At the confluence with Beaver Creek	0.54	552	867	1,009	1,412
Miller Creek Tributary A					
At the confluence with Miller Creek	0.09	139	244	288	396
Mobley Creek					
At the confluence with Dog River	15.90	2,324	3,668	4,227	5,758
Just upstream of the confluence of Pool Creek	13.50	2,111	3,338	3,852	5,257
Just upstream of the confluence of Mobley Creek Tributary 5	11.80	1,955	3,096	3,578	4,888
At Pool Road	7.80	1,591	2,505	2,900	3,956
Just upstream of the confluence of Mobley Creek Tributary 6	5.00	1,358	2,095	2,419	3,266

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Mobley Creek Tributary 5					
At the confluence with Mobley Creek	2.00	689	1,110	1,305	1,815
Mobley Creek Tributary 6					
At the confluence with Mobley Creek	1.20	494	800	946	1,324
Mobley Creek Tributary 7					
At the confluence with Mobley Creek	1.90	773	1,202	1,400	1,907
Mud Creek					
At the confluence with Sweetwater Creek	16.60	2,492	3,895	4,477	6,063
Just upstream of the confluence of Waterfall Branch	13.90	2,243	3,512	4,042	5,484
Just upstream of the confluence of Town Branch	6.00	1,315	2,096	2,438	3,353
At Stockmar Road	4.50	1,098	1,759	2,055	2,838
Tributary 1 to Northern Lake					
At the mouth of Northern Lake	0.63	*	*	507	*
Tributary 2 to Northern Lake					
At the confluence with Tributary 1 to Northern Lake	0.54	*	*	145	*
Palmer Branch					
At the confluence with Sweetwater Creek	1.97	1,643	2,739	3,310	5,065
Approximately 2,040 feet upstream of the confluence of Palmer Branch Tributary B	0.96	1,140	1,916	2,336	3,608
Approximately 1,280 feet upstream of the confluence of Palmer Branch Tributary C	0.24	537	923	1,099	1,505
Palmer Branch Tributary A					
At the confluence with Palmer Branch	0.13	11	49	87	225
Palmer Branch Tributary B					
At the confluence with Palmer Branch	0.33	460	727	846	1,147
Palmer Branch Tributary C					
At the confluence with Palmer Branch	0.30	447	715	870	1,252
Panther Creek					
At the confluence with Chapel Farms Creek	1.17	1,229	1,849	2,126	2,846

*Data not available

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Panther Creek *(Continued)*					
Just downstream of the confluence of Panther Creek Tributary A	0.76	1,106	1,642	1,896	2,507
At Chapel Hill Farms Drive	0.31	505	734	835	1,089
Panther Creek Tributary A					
At the confluence with Panther Creek	0.24	447	657	751	989
Park Creek					
At the confluence with Sweetwater Creek	0.70	1,821	2,718	3,057	4,351
Approximately 1,120 feet upstream of Skyview Drive	0.31	1,066	1,578	1,803	2,368
Approximately 760 feet upstream of Sinyard Road	0.23	734	1,080	1,232	1,612
Pine Creek					
At the confluence with Sweetwater Creek	0.68	1,585	2,445	2,820	3,707
Approximately 4,160 feet upstream of the confluence with Sweetwater Creek	0.20	376	548	624	814
Pinewood Branch					
At the confluence with Park Creek	0.67	676	1,050	1,258	1,806
Approximately 620 feet upstream of Paces Drive	0.34	207	748	936	1,343
Pinewood Branch Tributary A					
At the confluence with Pinewood Branch	0.17	188	275	313	408
Shell Creek					
At the confluence with Hurricane Creek	0.66	675	1,001	1,176	1,670
Approximately 2,080 feet upstream of Shell Road	0.26	366	593	696	966
Shoals Branch					
At the confluence with Sweetwater Creek	1.29	973	1,512	1,751	2,316
Approximately 100 feet downstream of the confluence of Tributary A to Shoals Branch	1.05	1,445	2,204	2,542	3,388
Approximately 3,080 feet upstream of the confluence of Tributary B to Shoals Branch	0.29	558	874	1,044	1,457
Shoals Branch Tributary A					
At the confluence with Shoals Branch	0.19	386	591	681	909

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Shoals Branch Tributary B					
At the confluence with Shoals Branch	0.19	372	566	652	867
Simon Creek					
At the confluence with Anneewakee Creek	0.82	896	1,291	1,465	1,901
Approximately 1,660 feet upstream of Harvest Ridge Drive	0.25	565	800	902	1,156
Slater Mill Creek					
At the confluence with Little Anneewakee Creek	2.61	2,660	3,762	4,239	5,436
Just downstream of the confluence of Slater Mill Creek Tributaries A and B	0.94	2,006	2,782	3,101	3,891
At Village Court	0.39	715	979	1,093	1,373
Slater Mill Creek Tributary A					
At the confluence with Slater Mill Creek	0.78	861	1,218	1,363	1,721
At Hospital Drive	0.51	879	1,240	1,398	1,789
Slater Mill Creek Tributary B					
At the confluence with Slater Mill Creek	0.51	499	665	735	911
Spivey Branch					
At the confluence with Hickory Creek	1.41	980	1,489	1,701	2,232
Approximately 160 feet upstream of Country Park Drive	0.91	645	961	1,156	1,668
Approximately 4,550 feet upstream of the confluence of Spivey Branch Tributary B	0.20	309	454	515	667
Spivey Branch Tributary A					
At the confluence with Spivey Branch	0.22	145	222	256	342
Spivey Branch Tributary B					
At the confluence with Spivey Branch	0.31	235	702	898	1,349
Sweetwater Creek					
At the county boundary	35.75	8,648	14,197	17,096	25,310
Just downstream of the confluence of Park Creek	4.94	8,412	13,810	16,630	24,620
Approximately 300 feet downstream of Old Alabama Road	0.21	8,333	13,681	16,475	24,390
Sweetwater Creek Tributary A					
At the confluence with Sweetwater Creek	0.22	344	520	598	794

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Sweetwater Creek Tributary B					
At the confluence with Sweetwater Creek	0.21	323	497	574	769
Sweetwater Creek Tributary C					
At the confluence with Sweetwater Creek	0.49	876	1,371	1,591	2,139
Sweetwater Creek Tributary D					
At the confluence with Sweetwater Creek	0.54	757	1,165	1,346	1,811
Approximately 8,020 feet upstream of the confluence with Sweetwater Creek	0.18	320	495	572	766
Sweetwater Creek Tributary E					
At the confluence with Sweetwater Creek	0.45	754	1,178	1,365	1,838
Sweetwater Creek Tributary F					
At the confluence with Sweetwater Creek	0.25	494	744	854	1,131
Sweetwater Creek Tributary G					
At the confluence with Sweetwater Creek	0.40	789	1,213	1,389	1,836
Approximately 600 feet upstream of Fenmore Street	0.22	474	705	807	1,062
Approximately 835 feet upstream of Trae Lane	0.11	245	366	419	553
Sweetwater Creek Tributary H					
At the confluence with Sweetwater Creek	1.94	1,388	1,980	2,211	2,746
Approximately 340 feet upstream of Thornton Road	0.65	816	1,129	1,261	1,634
Sweetwater Creek Tributary I					
At the confluence with Sweetwater Creek	0.32	1,156	1,686	1,918	2,498
Approximately 230 feet upstream of White Flag Trail	0.08	163	242	277	363
Sweetwater Creek Tributary J					
At the confluence with Sweetwater Creek	0.36	808	1,157	1,334	1,768
Approximately 230 feet upstream of White Flag Trail	0.22	655	963	1,114	1,471
Sweetwater Creek Tributary K					
At the confluence with Sweetwater Creek	1.19	407	670	787	1,110
Approximately 3,400 feet upstream of the confluence with Sweetwater Creek	0.41	342	580	697	1,009

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Sweetwater Creek Tributary L					
At the confluence with Sweetwater Creek	1.79	644	1,070	1,307	1,944
At the confluence of Sweetwater Creek Tributary L.2	1.50	297	503	604	960
At Brownsville Road	0.10	260	441	525	735
Sweetwater Creek Tributary L.2					
At the confluence with Sweetwater Creek Tributary L	0.21	189	299	347	479
Sweetwater Creek Tributary L.3					
At the confluence with Sweetwater Creek Tributary L	0.17	107	203	258	431
Sweetwater Creek Tributary L.3.1					
At the confluence with Sweetwater Creek Tributary L.3	0.05	66	110	130	181
Unnamed Tributary to Southern Lake	0.23	*	*	258	*
At the mouth of Southern Lake					
Tanyard Branch					
At the confluence with Little Bear Creek	1.54	850	1,422	1,809	2,819
Approximately 5,640 feet upstream of Dorsett Shoals Road	1.12	758	1,288	1,658	2,528
Just downstream of the confluence of Tanyard Branch Tributary A	0.82	1,211	1,752	1,990	2,608
At Devonwood Avenue	0.18	383	554	630	821
Tanyard Branch Tributary A					
At the confluence with Tanyard Branch	0.23	292	425	484	633
Tiger Creek					
At the confluence with Anneewakee Creek	0.95	886	1,372	1,582	2,103
Just downstream of Par Drive	0.50	909	1,343	1,553	2,046
Just downstream of the confluence of Tiger Creek Tributary A	0.35	703	1,046	1,221	1,619
Just downstream of West Selman Drive	0.28	456	688	818	1,094
Tiger Creek Tributary A					
At the confluence with Tiger Creek	0.16	212	302	341	439
Town Branch					
At the confluence with Mud Creek	5.70	1,472	2,268	2,616	3,527

*Data not available

Table 5 - Summary of Discharges (*Continued*)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cfs) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Town Branch *(Continued)*					
At Brewer Road	4.80	1,361	2,089	2,409	3,243
Tributary 1 to Northern Lake					
At Northern Lake	0.63	*	*	507	*
Tributary 2 to Northern Lake					
At confluence with Tributary 1 to Northern Lake	0.54	*	*	145	*
Tyree Branch					
At the confluence with Hurricane Creek	0.31	280	462	544	751
Approximately 5,800 feet upstream of the confluence with Hurricane Creek	0.10	146	241	283	392
Unnamed Tributary to Southern Lake					
At Southern Lake	0.23	*	*	258	*
Waterfall Branch					
At the confluence with Mud Creek	2.00	721	1,150	1,349	1,865
Zion Branch					
At the confluence with Hurricane Creek	1.21	575	1,145	1,392	1,967
Approximately 3,590 feet upstream of the confluence with Hurricane Creek	0.54	295	615	770	1,074
Approximately 2,200 feet upstream of State Highway 5	0.19	87	143	168	234

*Data not available

Stillwater elevations for Douglas County are shown in Table 6.

Table 6 - Summary of Stillwater Elevations

Flooding Source	Water Surface Elevations (Feet NAVD[1]) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
DOUGLAS COUNTY WATERSHED RESERVOIR	*	*	760.2	*
NORTHERN LAKE	*	*	782.6	*
SOUTHERN LAKE	*	*	772.1	*

*Data not available
[1] North American Vertical Datum of 1988

3.2 Hydraulic Analyses

Analyses of the hydraulic characteristics of flooding from the sources studied were carried out to provide estimates of the elevations of floods of the selected recurrence intervals. Users should be aware that flood elevations shown on the FIRM represent rounded whole-foot elevations and may not exactly reflect the elevations shown on the Flood Profiles or in the Floodway Data Table in the FIS report. Flood elevations shown on the FIRM are primarily intended for flood insurance rating purposes. For construction and/or floodplain management purposes, users are cautioned to use the flood elevation data presented in this FIS report in conjunction with the data shown on the FIRM.

August 18, 2009
Initial Countywide FIS Report

Cross section data for the Chattahoochee River, Gordon Creek, Gothards Creek, Mill Creek, Gothards Creek Tributary 8, Gothards Creek Tributary 11, Mobley Creek, Mobley Creek Tributary 5, Mobley Creek Tributary 6, Mobley Creek Tributary 7, Mud Creek, Pine Creek, Sweetwater Creek, Park Creek, Town Branch, and Waterfall Branch were obtained using aerial photogrammetric techniques, with the below-water sections being obtained by field measurements. All bridges and culverts were field surveyed to obtain elevation data and structural geometry. Cross sections were located at close intervals upstream and downstream of bridges and culverts in order to compute significant backwater effects of these structures.

Cross sections used in the Anneewakee Creek and Bear Creek Basin models and the limited detailed analyses for Beaver Creek, Huey Creek, Huey Creek Tributary A, Margie Branch, Miller Creek, Miller Creek Tributary A, and Pinewood Branch were obtained from 2-foot topographic contours (Photo Science Geospatial Solutions, 2004). Stream channel dimensions were augmented by field and survey measurements, where necessary. Along each stream, the cross sections were located at a maximum interval along the channel of 500 feet. Field surveys were conducted at all bridge, culvert, and dam locations within the study area to collect structural features and to determine necessary elevations. Representative upstream and downstream cross sections were placed in appropriate locations near these structures in order to accurately represent the hydraulic characteristics and backwater effects of the structures.

Water surface elevations (WSELs) of floods of the selected recurrence intervals for the Chattahoochee River, Gordon Creek, Gothards Creek, Gothards Creek Tributary 2, Gothards Creek Tributary 3, Gothards Creek Tributary 4, Mobley Creek, Mobley Creek Tributary 5, Mobley Creek Tributary 6, Mobley Creek Tributary 7, Mud Creek, Pine Creek, Sweetwater Creek, Sweetwater Creek Tributary 1, Town Branch, and Waterfall Branch (USGS, 1973a) and (Jack W.

Berry & Associates, Inc., 1977) were developed using the USACE, HEC computer program, HEC-2 (HEC, 1976). The HEC-2 input data for the Chattahoochee River and Sweetwater Creek were supplied by the USACE, Mobile District, from their studies in Fulton and Cobb Counties, Georgia. For the detailed studies for Gothards Creek and Sweetwater Creek taken from the FIS for Paulding County, WSELs of floods of the selected recurrence intervals were computed using the USACE, HEC computer program, HEC-2 (HEC, 1973). Starting WSELs were developed using the slope-area method.

The HEC-2 model for the Chattahoochee River between Fairburn Road/State Highway 92 and the upstream county boundary was revised to include updated geometry and recalibrated by using data from the March 1977 and April 1979 floods. The flood profiles were reconstructed by comparing the model results to high water marks obtained during the floods. Adjustments were made in the channel and overbank roughness coefficients (Manning's "n") until the difference between the computed and observed stages was within 0.5 foot. Additional calibration was performed for the City of Vinings gage at Paces Ferry Road and its upstream "fall" gage at U.S. Highway 41 by comparing the discharges and corresponding stages computed by the model with the actual USGS data for these stations.

WSELs of floods of the selected recurrence intervals for the Anneewakee Creek and Bear Creek Basins and the limited detailed analyses for Beaver Creek, Huey Creek, Huey Creek Tributary A, Margie Branch, Miller Creek, Miller Creek Tributary A, and Pinewood Branch were modeled using the USACE, HEC computer program, HEC-RAS, version 3.1.3 (HEC, 2005) and the USACE, HEC computer program HEC-GEORAS, version 4.1 (HEC, 2006). The starting WSELs were computed by the slope-area method. Channel slope was established by utilizing contour data. The models were run using a steady-state flow analysis.

Cross sections for the flooding sources studied by limited detailed methods, Keaton Creek Tributaries 1 and 2, were obtained using digital topography and field surveys. WSELs of floods for the limited detailed studies were computed using the USACE, HEC computer program HEC-RAS, version 3.1.3 (HEC, 2005). The hydraulic model was prepared using digital elevation data without surveying bathymetric data. Field measurements were conducted to approximate the geometry of the hydraulic structures crossing the streams. A limited detailed study can be upgraded to a full detailed study at a later date by verifying stream channel and overbank geometry, bridge and culvert data, and by analyzing multiple recurrence intervals.

This Countywide FIS Report

WSELs of floods of the selected recurrence intervals for the Hurricane Creek, Sweetwater Creek, Gothards Creek, Sweetwater Creek Tributary 1 basin models and the Chattahoochee River were modeled using the USACE, HEC computer program HEC-RAS, version 4.1 (HEC, 2010). The starting WSELs were

computed by the slope-area method. Channel slope was established by utilizing contour data. The models were run using a steady-state flow analysis.

For the streams studied by approximate methods in the Sweetwater Creek Hurricane Creek basins and Chattahoochee tributaries, cross section data was obtained from the county provided topographic data. Hydraulically significant roads were modeled as bridges or culverts, with opening data approximated from available inventory data or approximated from the imagery. Top of road elevations were estimated from the best available topography. The studied streams were modeled using the USACE, HEC computer program HEC-RAS, version 4.1 (HEC, 2010).

Roughness coefficients (Manning's "n') were assigned along the studied streams based on field visits/photographs and updated aerial photography (overbank areas only). Specific values for roughness for the Anneewakee and Bear Creek Basins were determined from the HEC-RAS Hydraulic Reference Guide (HEC, 2005). Table 7 displays the range of channel and overbank Manning's n values assigned to all streams studied by detailed methods.

Table 7 – Manning's "n" Values

Stream	Channel "n"	Overbank "n"
Alexander Branch	0.035-0.050	0.035-0.110
Alexander Branch Tributary A	0.035-0.050	0.060-0.110
Alexander Branch Tributary B	0.035-0.050	0.035-0.110
Amber Creek	0.010-0.045	0.050-0.110
Amber Creek Tributary A	0.045	0.110
Anneewakee Creek	0.010-0.070	0.010-0.110
Anneewakee Creek Tributary A	0.010-0.045	0.110
Anneewakee Creek Tributary B	0.045	0.110
Anneewakee Creek Tributary C	0.045	0.050-0.110
Anneewakee Creek Tributary D	0.040	0.035-0.110
Anneewakee Creek Tributary E	0.035	0.110
Anneewakee Creek Tributary F	0.010-0.100	0.035-0.110
Anneewakee Creek Tributary G	0.010-0.100	0.010-0.110
Anneewakee Creek Tributary H	0.045	0.035-0.110
Anneewakee Creek Tributary I	0.010-0.035	0.050-0.110
Anneewakee Creek Tributary J	0.045	0.010-0.110
Anneewakee Creek Tributary K	0.010-0.045	0.010-0.110
Anneewakee Creek Tributary L	0.045	0.045-0.110
Arbor Branch	0.010-0.110	0.035-0.110
Arbor Branch Tributary A	0.035-0.070	0.040-0.110
Austin Creek	0.010-0.045	0.010-0.110
Baldwin Creek	0.035-0.045	0.035-0.110
Baldwin Creek Tributary A	0.035-0.045	0.060-0.110
Bear Creek	0.030-0.070	0.035-0.110
Bear Creek Tributary A	0.030-0.070	0.110-0.110
Bear Creek Tributary B	0.030-0.070	0.035-0.110
Bear Creek Tributary C	0.030-0.070	0.035-0.110
Bear Creek Tributary D	0.030-0.070	0.060-0.110
Bear Creek Tributary E	0.030-0.070	0.035-0.110
Bear Creek Tributary F	0.030-0.070	0.035-0.110

Table 7 – Manning's "n" Values (*Continued*)

Stream	Channel “n”	Overbank “n”
Bear Creek Tributary G	0.030-0.070	0.035-0.110
Beaver Creek	0.010-0.100	0.035-0.110
Beaver Creek Tributary A	0.010-0.100	0.035-0.110
Bomar Branch	0.035-0.070	0.010-0.110
Camp Branch	0.045	0.035-0.110
Camp Branch Tributary A	0.045	0.110
Chapel Farms Creek	0.035-0.050	0.050-0.110
Chapel Farms Creek Tributary A	0.045	0.050-0.110
Chattahoochee River	0.028-0.055	0.070-0.188
Coursey Creek	0.035-0.045	0.035-0.110
Crooked Creek	0.010-0.110	0.010-0.110
Crooked Creek Tributary A	0.010-0.035	0.110
Crooked Creek Tributary B	0.045	0.050-0.110
Crooked Creek Tributary C	0.045-0.050	0.045-0.110
Crooked Creek Tributary D	0.010-0.110	0.010-0.110
Crossing Branch	0.010-0.050	0.035-0.110
Dog River	0.070-0.080	0.030-0.050
Dorsett Creek	0.030-0.100	0.035-0.110
Dry Creek	0.010-0.045	0.035-0.110
Dry Creek Tributary A	0.035-0.040	0.060-0.110
Dry Creek Tributary B	0.0350	0.050-0.110
Dry Creek Tributary C	0.0350	0.035-0.110
Farm Branch	0.035-0.045	0.050-0.110
Farm Branch Tributary A	0.010-0.110	0.035-0.110
Gordon Creek	0.035-0.040	0.035-0.110
Gothards Creek	0.030-0.070	0.045-0.100
Gothards Creek Tributary 1	0.070	0.050-0.100
Gothards Creek Tributary 2	0.250-0.070	0.035-0.100
Gothards Creek Tributary 2.1	0.025-0.070	0.070-0.100
Gothards Creek Tributary 3	0.025-0.070	0.040-0.100
Gothards Creek Tributary 3.1	0.025-0.070	0.050-0.100
Gothards Creek Tributary 3.2	0.050-0.070	0.090-0.100
Gothards Creek Tributary 4	0.025-0.070	0.040-0.100
Gothards Creek Tributary 4.1	0.045-0.070	0.070-0.100
Gothards Creek Tributary 4.1.1	0.050-0.070	0.100
Gothards Creek Tributary 6	0.070	0.080-0.100
Gothards Creek Tributary 8	0.040-0.070	0.060-0.100
Gothards Creek Tributary 8.1	0.025-0.070	0.035-0.100
Gothards Creek Tributary 9	0.070	0.100
Gothards Creek Tributary 10	0.070	0.080-0.100
Gothards Creek Tributary 11	0.035-0.070	0.052-0.100
Gothards Creek Tributary 11.1	0.040-0.070	0.050-0.100
Gothards Creek Tributary 11.2	0.025-0.250	0.060-0.100
Gothards Creek Tributary 11.3	0.025-0.080	0.050-0.100
Gothards Creek Tributary 12	0.070	0.100
Gothards Creek Tributary 15	0.070	0.100
Hickory Creek	0.04-0.110	0.010-0.110
Huey Creek	0.035-0.070	0.040-0.100
Huey Creek Tributary 1	0.050-0.070	0.080-0.100
Huey Creek Tributary 1.1	0.070	0.100
Huey Creek Tributary 2	0.050-0.070	0.080-0.100
Huey Creek Tributary 2.1	0.050-0.070	0.070-0.100
Hurricane Creek	0.010-0.050	0.013-0.110
Hurricane Creek Tributary A	0.0350	0.035-0.110
Hurricane Creek Tributary B	0.0350	0.110
Hurricane Creek Tributary C	0.0350	0.10-0.110
Hurricane Creek Tributary D	0.035-0.045	0.06-0.110
Hurricane Creek Tributary E	0.0350	0.013-0.110

Table 7 – Manning's "n" Values (*Continued*)

Stream	Channel "n"	Overbank "n"
Knollwood Branch Tributary A	0.045	0.060-0.110
Kraft Creek	0.045	0.013-0.110
Kraft Creek Tributary A	0.0350	0.110
Lion Branch	0.01-0.450	0.035-0.110
Lion Branch Tributary A	0.010-0.045	0.050-0.110
Lion Branch Tributary B	0.035-0.045	0.035-0.110
Little Hurricane Creek	0.010-0.110	0.013-0.110
Little Anneewakee Creek	0.010-0.045	0.010-0.110
Little Anneewakee Creek Tributary A	0.010-0.050	0.040-0.110
Little Anneewakee Creek Tributary B	0.045	0.050-0.110
Little Anneewakee Creek Tributary C	0.045	0.050-0.110
Little Anneewakee Creek Tributary D	0.045-0.050	0.040-0.110
Little Anneewakee Creek Tributary E	0.045	0.040-0.110
Little Bear Creek	0.035-0.050	0.035-0.110
Little Bear Creek Tributary A	0.035-0.050	0.035-0.110
Little Bear Creek Tributary B	0.035-0.050	0.050-0.110
Little Bear Creek Tributary C	0.035-0.050	0.035-0.110
Little Bear Creek Tributary D	0.035-0.050	0.110-0.110
Little Bear Creek Tributary E	0.035-0.050	0.035-0.110
Little Bear Creek Tributary F	0.035-0.050	0.060-0.110
Little Hurricane Creek	0.010-0.110	0.013-0.110
Little Hurricane Creek Tributary A	0.035-0.045	0.050-0.110
Margie Branch	0.010-0.100	0.035-0.110
Margie Branch Tributary A	0.045	0.050-0.110
Mill Creek	0.025-0.070	0.070-0.100
Mill Creek Tributary 1	0.050-0.070	0.050-0.100
Miller Creek	0.035-0.040	0.060-0.110
Miller Creek Tributary A	0.035-0.045	0.020-0.110
Mobley Creek	0.045-0.080	0.080-0.170
Mobley Creek Tributary 5	0.045-0.080	0.080-0.170
Mobley Creek Tributary 6	0.045-0.080	0.080-0.170
Mobley Creek Tributary 7	0.045-0.080	0.080-0.170
Mud Creek	0.045-0.080	0.080-0.170
Palmer Branch	0.040-0.045	0.050-0.110
Palmer Branch Tributary A	0.010-0.045	0.040-0.110
Palmer Branch Tributary B	0.045	0.110
Palmer Branch Tributary C	0.045	0.050-0.110
Panther Creek	0.035-0.070	0.010-0.110
Panther Creek Tributary A	0.045	0.110
Park Creek	0.035-0.060	0.035-0.110
Pine Creek	0.045-0.080	0.080-0.170
Pinewood Branch	0.010-0.045	0.035-0.110
Pinewood Branch Tributary A	0.010-0.045	0.035-0.110
Shell Creek	0.045	0.013-0.110
Simon Creek	0.035-0.045	0.035-0.110
Shoals Branch	0.030-0.035	0.010-0.110
Shoals Branch Tributary A	0.030	0.035-0.110
Shoals Branch Tributary B	0.030-0.035	0.035-0.110
Slater Mill Creek	0.035-0.050	0.040-0.110
Slater Mill Creek Tributary A	0.040-0.050	0.010-0.110
Slater Mill Creek Tributary B	0.035	0.040-0.110
Spivey Branch	0.035-0.040	0.035-0.110
Spivey Branch Tributary A	0.01-0.0450	0.050-0.110
Spivey Branch Tributary B	0.01-0.0450	0.035-0.110
Sweetwater Creek	0.050-0.055	0.040-0.160
Sweetwater Creek Tributary A	0.030-0.110	0.035-0.110
Sweetwater Creek Tributary B	0.035-0.100	0.110
Sweetwater Creek Tributary C	0.035	0.035-0.110

Table 7 – Manning's "n" Values (*Continued*)

Stream	Channel "n"	Overbank "n"
Sweetwater Creek Tributary D	0.035-0.100	0.100-0.110
Sweetwater Creek Tributary E	0.035	0.110
Sweetwater Creek Tributary F	0.045	0.05-0.110
Sweetwater Creek Tributary G	0.035-0.050	0.04-0.110
Sweetwater Creek Tributary H	0.035-0.100	0.01-0.110
Sweetwater Creek Tributary I	0.045-0.050	0.05-0.110
Sweetwater Creek Tributary J	0.013-0.040	0.035-0.110
Sweetwater Creek Tributary K	0.01-0.100	0.035-0.110
Sweetwater Creek Tributary L	0.025-0.07	0.035-0.120
Sweetwater Creek Tributary L.2	0.050-0.07	0.070-0.100
Sweetwater Creek Tributary L.3	0.025-0.08	0.050-0.100
Sweetwater Creek Tributary L.3.1	0.025-0.08	0.100
Tanyard Branch	0.035-0.050	0.035-0.110
Tanyard Branch Tributary A	0.035-0.050	0.050-0.110
Tiger Creek	0.010-0.045	0.010-0.110
Tiger Creek Tributary A	0.050	0.035-0.110
Tributary 1 to Northern Lake	*	*
Tributary 2 to Northern Lake	*	*
Town Branch	0.045-0.080	0.080-0.170
Tyree Branch	0.035	0.060-0.110
Unnamed Tributary to Southern Lake	*	*
Waterfall Branch	0.045-0.080	0.080-0.170
Zion Branch	0.010-0.050	0.010-0.110

*Data not available

Locations of selected cross sections used in the hydraulic analyses are shown on the Flood Profiles (Exhibit 1). For stream segments for which a floodway was computed (Section 4.2), selected cross section locations are also shown on the FIRM (Exhibit 2).

Flood profiles have been developed for streams studied by limited detailed methods to be used for floodplain management and flood insurance rating purposes. The flood profiles for the streams studied by limited detailed methods are published separately from this FIS report. Contact the local floodplain administrator for more information.

The profile baselines depicted on the FIRM represent the hydraulic modeling baselines that match the flood profiles on this FIS report. As a result of improved topographic data, the profile baseline, in some cases, may deviate significantly from the channel centerline or appear outside the Special Flood Hazard Area.

The hydraulic analyses for this study were based on unobstructed flow. The flood elevations shown on the Flood Profiles (Exhibit 1) are thus considered valid only if hydraulic structures remain unobstructed, operate properly, and do not fail.

The profile baselines depicted on the FIRM represent the hydraulic modeling baselines that match the flood profiles on this FIS report. As a result of improved topographic data, the profile baseline, in some cases, may deviate

significantly from the channel centerline or appear outside the Special Flood Hazard Area.

3.3 Vertical Datum

All FIS reports and FIRMs are referenced to a specific vertical datum. The vertical datum provides a starting point against which flood, ground, and structure elevations can be referenced and compared. Until recently, the standard vertical datum in use for newly created or revised FIS reports and FIRMs was NGVD. With the finalization of NAVD, many FIS reports and FIRMs are being prepared using NAVD as the referenced vertical datum.

All flood elevations shown in this FIS report and on the FIRM are referenced to NAVD. Structure and ground elevations in the community must, therefore, be referenced to NAVD. It is important to note that adjacent communities may be referenced to NGVD. This may result in differences in Base Flood Elevations (BFEs) across the corporate limits between the communities. Some of the data used in this study were taken from the prior effective FIS reports and adjusted to NAVD. The average conversion factor that was used to convert the data in this FIS report to NAVD was calculated using the National Geodetic Survey's (NGS) VERTCON online utility (NGS, 2006). The data points used to determine the conversion are listed in Table 8.

Table 8– Vertical Datum Conversion

				Conversion from
Quad Name	**Corner**	**Latitude**	**Longitude**	**NGVD29 to NAVD88**
New Georgia	SE	33.750	-84.875	0.233 feet
Austell	SW	33.750	-84.750	0.236 feet
Campbellton	NE	33.750	-84.625	0.217 feet
Villa Rica	SE	33.625	-84.875	0.194 feet
Winston	SE	33.625	-84.750	0.125 feet
			Average:	**0.201 feet**

For additional information regarding conversion between NGVD and NAVD, visit the NGS website at www.ngs.noaa.gov, or contact the NGS at the following address:

Vertical Network Branch, N/CG13
National Geodetic Survey, NOAA
Silver Spring Metro Center 3
1315 East-West Highway
Silver Spring, Maryland 20910
(301) 713-3191

Temporary vertical monuments are often established during the preparation of a flood hazard analysis for the purpose of establishing local vertical control. Although these monuments are not shown on the FIRM, they may be found in the Technical Support Data Notebook associated with the FIS report and FIRM for this community. Interested individuals may contact FEMA to access these data.

To obtain current elevation, description, and/or location information for benchmarks shown on this map, please contact the Information Services Branch of the NGS at (301) 713-3242, or visit their website at www.ngs.noaa.gov.

4.0 FLOODPLAIN MANAGEMENT APPLICATIONS

The NFIP encourages State and local governments to adopt sound floodplain management programs. Therefore, each FIS provides 1-percent-annual-chance (100-year) flood elevations and delineations of the 1- and 0.2-percent-annual-chance (500-year) floodplain boundaries and 1-percent-annual-chance floodway to assist communities in developing floodplain management measures. This information is presented on the FIRM and in many components of the FIS report, including Flood Profiles, Floodway Data Table, and Summary of Stillwater Elevations Table. Users should reference the data presented in the FIS report as well as additional information that may be available at the local map repository before making flood elevation and/or floodplain boundary determinations.

4.1 Floodplain Boundaries

To provide a national standard without regional discrimination, the 1-percent-annual-chance flood has been adopted by FEMA as the base flood for floodplain management purposes. The 0.2-percent-annual-chance flood is employed to indicate additional areas of flood risk in the community.

For each stream studied by detailed methods, the 1- and 0.2-percent-annual-chance floodplain boundaries have been delineated using the flood elevations determined at each cross section. Between cross sections, the boundaries were interpolated using topographic maps at a scale of 1":800', with a contour interval of 2 feet (Photo Science Geospatial Solutions, 2004).

The 1- and 0.2-percent-annual-chance floodplain boundaries are shown on the FIRM (Exhibit 2). On this map, the 1-percent-annual-chance floodplain boundary corresponds to the boundary of the areas of special flood hazards (Zone A and AE), and the 0.2-percent-annual-chance floodplain boundary corresponds to the boundary of areas of moderate flood hazards. In cases where the 1- and 0.2-percent-annual-chance floodplain boundaries are close together, only the 1-percent-annual-chance floodplain boundary has been shown. Small

areas within the floodplain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data.

For the streams studied by approximate methods, only the 1-percent-annual-chance floodplain boundary is shown on the FIRM (Exhibit 2).

4.2 Floodways

Encroachment on floodplains, such as structures and fill, reduces flood-carrying capacity, increases flood heights and velocities, and increases flood hazards in areas beyond the encroachment itself. One aspect of floodplain management involves balancing the economic gain from floodplain development against the resulting increase in flood hazard. For purposes of the NFIP, a floodway is used as a tool to assist local communities in this aspect of floodplain management. Under this concept, the area of the 1-percent-annual-chance floodplain is divided into a floodway and a floodway fringe. The floodway is the channel of a stream, plus any adjacent floodplain areas, that must be kept free of encroachment so that the 1-percent-annual-chance flood can be carried without substantial increases in flood heights. Minimum Federal standards limit such increases to 1 foot, provided that hazardous velocities are not produced. The floodways in this study are presented to local agencies as minimum standards that can be adopted directly or that can be used as a basis for additional floodway studies.

The floodways presented in this FIS report and on the FIRM were computed for certain stream segments on the basis of equal-conveyance reduction from each side of the floodplain. Floodway widths were computed at cross sections. Between cross sections, the floodway boundaries were interpolated. The results of the floodway computations have been tabulated for selected cross sections in Table 8. In cases where the floodway and 1-percent-annual-chance floodplain boundaries are either close together or collinear, only the floodway boundary has been shown.

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
ALEXANDER BRANCH								
A	80	50	222	7.7	958.5	958.5	958.8	0.3
B	724	200	613	2.7	962.1	962.1	962.8	0.7
C	1,620	56	190	8.8	972.6	972.6	972.6	0.0
D	1,711	150	1,614	1.0	983.4	983.4	983.5	0.1
E	2,769	25	147	11.4	986.4	986.4	986.9	0.5
F	3,474	30	179	9.3	999.2	999.2	999.3	0.1
G	4,050	32	169	4.6	1,004.4	1,004.4	1,005.4	1.0
H	5,017	45	163	4.8	1,012.3	1,012.3	1,012.4	0.1
I	5,181	45	337	2.3	1,019.2	1,019.2	1,019.2	0.0
J	6,105	30	170	4.6	1,021.4	1,021.4	1,021.6	0.2
K	6,745	22	71	5.1	1,028.7	1,028.7	1,028.9	0.2
L	7,951	169	253	1.4	1,059.5	1,059.5	1,059.5	0.0
M	8,140	259	798	0.5	1,064.0	1,064.0	1,064.0	0.0
N	8,427	546	2,616	0.1	1,068.8	1,068.8	1,068.8	0.0
O	8,619	45	89	4.1	1,071.7	1,071.7	1,072.4	0.7
P	8,644	527	2,483	0.2	1,072.4	1,072.4	1,072.7	0.3
Q	9,387	20	44	8.3	1,077.6	1,077.6	1,077.6	0.0
R	10,154	19	57	6.4	1,093.7	1,093.7	1,094.5	0.8

[1]Feet above confluence with Bear Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

ALEXANDER BRANCH

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
ALEXANDER BRANCH TRIBUTARY A								
A	248[1]	29	131	5.3	1,002.8	1,002.8	1,003.8	1.0
B	642[1]	48	99	6.9	1,013.6	1,013.6	1,013.7	0.2
C	755[1]	50	635	1.1	1,027.2	1,027.2	1,028.2	1.0
D	1,398[1]	49	107	6.4	1,030.5	1,030.5	1,031.2	0.7
E	1,771[1]	20	70	9.7	1,040.3	1,040.3	1,040.3	0.0
ALEXANDER BRANCH TRIBUTARY B								
A	140[1]	56	104	2.4	1,027.1	1,027.1	1,027.1	0.0
B	1,033[1]	15	15	5.5	1,059.7	1,059.7	1,059.7	0.0
AMBER CREEK								
A	954[2]	111	373	5.2	790.0	789.5[3]	789.5	0.0
B	1,714[2]	83	311	6.3	797.4	797.4	797.6	0.2
C	2,562[2]	135	358	4.1	803.9	803.9	804.0	0.1
D	3,356[2]	50	197	7.4	813.5	813.5	814.0	0.5
E	4,007[2]	68	244	6.0	820.0	820.0	820.0	0.0
F	4,202[2]	18	67	11.1	821.6	821.6	821.6	0.0
G	4,629[2]	31	82	9.1	838.8	838.8	838.8	0.0
H	5,625[2]	16	68	10.9	857.2	857.2	857.2	0.0
F	5,979[2]	30	82	9.1	869.6	869.6	869.6	0.0
J	6,322[2]	17	75	10.0	876.1	876.1	876.2	0.1

[1]Feet above confluence with Alexander Branch Creek

[2]

[3]Elevation computed without consideration of backwater effects from Anneewakee

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

ALEXANDER BRANCH TRIBUTARY A – ALEXANDER BRANCH TRIBUTARY B – AMBER CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
AMBER CREEK (CONTINUED)								
K	7,173[1]	275	2,283	0.3	903.5	903.5	904.4	0.9
L	7,822[1]	153	1,198	0.6	903.5	903.5	904.4	0.9
M	8,487[1]	39	97	7.7	917.9	917.9	917.9	0.0
N	8,635[1]	15	248	3.0	933.5	933.5	934.4	0.9
O	9,314[1]	16	75	9.9	933.5	933.5	934.4	0.9
AMBER CREEK TRIBUTARY A								
A	14[2]	10	52	13.3	825.7	825.7	825.7	0.0
B	621[2]	18	76	9.0	838.6	838.6	839.6	1.0
C	1,358[2]	17	74	9.3	856.9	856.9	857.8	0.9
D	1,823[2]	8	50	13.8	873.1	873.1	873.2	0.1
E	2,582[2]	39	137	5.0	902.3	902.3	903.3	1.0

[1]Feet above confluence with Anneewakee Creek

[2]Feet above confluence with Amber Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

AMBER CREEK – AMBER CREEK TRIBUTARY A

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
ANNEEWAKEE CREEK								
A	1,728	665	3,674	2.9	748.6	734.9[2]	734.9	0.0
B	3,541	399	1,496	7.7	748.6	736.2[2]	736.3	0.1
C	4,731	125	1,613	7.1	748.6	739.3[2]	739.3	0.0
D	4,841	127	1,559	7.4	748.6	739.5[2]	739.5	0.0
E	5,449	572	3,088	3.7	748.6	742.8[2]	742.8	0.0
F	6,233	429	3,028	3.8	748.6	745.4[2]	745.4	0.0
G	6,630	230	1,313	8.7	748.6	745.7[2]	745.7	0.0
H	7,799	77	1,100	10.3	753.2	753.2	753.3	0.1
I	8,587	90	1,169	9.7	758.0	758.0	758.0	0.0
J	9,381	68	651	17.5	761.1	761.1	761.1	0.0
K	10,197	393	1,378	8.2	770.1	770.1	770.1	0.0
L	11,004	353	2,150	5.2	772.9	772.9	772.9	0.0
M	11,815	243	1,389	8.1	774.1	774.1	774.1	0.0
N	12,800	461	2,017	5.6	776.4	776.4	776.4	0.0
O	13,598	485	1,599	7.0	778.2	778.2	778.2	0.0
P	14,733	184	1,533	7.3	783.2	783.2	783.2	0.0
Q	15,593	324	2,742	4.1	785.4	785.4	785.4	0.0
R	16,398	279	1,733	6.5	786.0	786.0	786.0	0.0
S	17,211	110	1,075	10.4	787.6	787.6	787.6	0.0
T	17,924	162	1,486	7.4	790.0	790.0	790.0	0.0
U	19,149	111	746	14.7	815.8	815.8	815.8	0.0

[1]Feet above confluence with Chattahoochee River

[2]Elevations computed without consideration of backwater effects from Chattahoochee River

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

ANNEEWAKEE CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
ANNEEWAKEE CREEK (CONTINUED)								
V	20,005	107	764	14.4	831.6	831.6	831.6	0.0
W	21,065	78	897	12.2	843.9	843.9	843.9	0.0
X	21,356	59	588	18.6	844.3	844.3	844.3	0.0
Y	22,014	57	720	15.2	849.5	849.5	849.6	0.1
Z	22,831	49	759	14.4	853.2	853.2	853.8	0.6
AA	23,222	233	2,164	5.0	857.1	857.1	857.6	0.5
AB	23,895	69	868	12.6	857.9	857.9	858.9	1.0
AC	24,434	111	1,140	9.6	861.5	861.5	862.3	0.8
AD	24,480	117	1,203	9.1	862.1	862.1	862.7	0.6
AE	25,159	97	1,312	8.3	866.1	866.1	866.7	0.6
AF	25,218	127	780	14.0	872.8	872.8	872.9	0.1
AG	25,522	708	7,076	1.5	876.1	876.1	876.3	0.2
AH	26,209	335	3,291	2.7	876.4	876.4	876.5	0.1
AI	27,002	100	1,007	8.8	876.5	876.5	877.1	0.6
AJ	27,444	771	5,839	1.5	878.2	878.2	878.9	0.7
AK	29,062	313	1,721	5.0	878.7	878.7	879.6	0.9
AL	29,935	451	2,605	3.6	881.3	881.3	881.7	0.4
AM	30,674	145	963	9.7	883.7	883.7	883.9	0.2
AN	31,014	310	2,780	3.6	887.4	887.4	888.2	0.8
AO	32,738	150	1,345	7.5	890.9	890.9	891.1	0.2
AP	33,840	516	5,433	1.9	893.4	893.4	894.3	0.9

[1]Feet above confluence with Chattahoochee River

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

ANNEEWAKEE CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
ANNEEWAKEE CREEK (CONTINUED)								
AQ	35,433	249	1,966	5.6	893.8	893.8	894.7	0.9
AR	35,994	296	2,037	5.8	894.4	894.4	895.1	0.7
AS	36,978	293	2,908	4.0	897.1	897.1	897.4	0.3
AT	37,560	429	3,732	3.2	897.5	897.5	897.9	0.4
AU	38,002	408	2,856	2.1	897.8	897.8	898.2	0.4
AV	38,694	414	2,457	2.5	897.9	897.9	898.4	0.5
AW	39,426	103	582	10.5	898.0	898.0	898.5	0.5
AX	39,501	142	1,837	3.3	904.6	904.6	905.0	0.4
AY	39,888	282	2,431	2.5	904.7	904.7	905.3	0.6
AZ	40,003	449	3,435	1.8	904.7	904.7	905.3	0.6
BA	40,471	443	3,331	1.9	904.7	904.7	905.4	0.7
BB	41,463	241	1,366	4.5	904.8	904.8	905.6	0.8
BC	41,588	186	956	6.4	904.8	904.8	905.6	0.8
BD	41,608	186	1,127	5.5	905.6	905.6	906.4	0.8
BE	41,946	84	456	13.5	906.4	906.4	906.4	0.0
BF	42,431	191	1,214	5.1	910.2	910.2	910.6	0.4
BG	42,884	192	911	6.8	910.9	910.9	911.6	0.7
BH	43,386	284	1,182	5.2	913.3	913.3	913.4	0.1
BI	43,817	256	764	8.1	915.5	915.5	915.5	0.0
BJ	43,843	309	1,460	4.2	916.8	916.8	916.8	0.0

[1]Feet above confluence with Chattahoochee River

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

ANNEEWAKEE CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
ANNEEWAKEE CREEK (CONTINUED)								
BK	44,493	100	829	7.4	921.1	921.1	921.1	0.0
BL	45,646	83	612	10.1	924.2	924.2	925.0	0.8
BM	46,046	82	547	11.3	927.6	927.6	927.6	0.0
BN	46,532	205	1,409	4.4	931.7	931.7	931.8	0.1
BO	46,950	145	831	7.4	932.1	932.1	932.8	0.7
BP	47,351	158	971	6.3	935.1	935.1	935.6	0.5
BQ	47,478	245	691	15.2	934.9	934.9	935.5	0.6
BR	47,548	238	1,878	2.9	944.7	944.7	944.7	0.0
BS	48,025	207	2,145	2.5	944.8	944.8	945.2	0.4
BT	48,505	249	1,631	3.5	944.8	944.8	945.5	0.7
BU	49,159	64	397	14.2	950.8	950.8	950.8	0.0
BV	49,545	100	543	10.3	956.4	956.4	956.4	0.0
BW	50,555	161	930	6.0	961.4	961.4	961.9	0.5
BX	51,110	270	1,068	5.3	963.8	963.8	964.8	1.0
BY	51,849	64	700	8.0	968.1	968.1	968.2	0.1
BZ	52,298	51	408	13.8	968.1	968.1	968.3	0.2
CA	52,795	83	936	6.0	971.7	971.7	972.0	0.3
CB	53,163	55	273	13.3	972.1	972.1	972.2	0.1
CC	54,116	50	267	14.6	986.0	986.0	986.1	0.1
CD	54,198	67	942	3.9	994.8	994.8	995.1	0.3

[1]Feet above confluence with Chattahoochee River

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

ANNEEWAKEE CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
ANNEEWAKEE CREEK (CONTINUED)								
CE	54,802	140	3,108	0.9	1,023.6	1,023.6	1,023.6	0.0
CF	55,426	300	8,535	0.3	1,023.7	1,023.7	1,023.7	0.0
CG	55,737	59	348	7.0	1,023.7	1,023.7	1,023.7	0.0
CH	57,525	59	446	6.0	1,040.9	1,040.9	1,040.9	0.0
CI	57,567	171	945	2.5	1,041.4	1,041.4	1,041.4	0.0
CJ	57,846	244	1,993	3.1	1,045.2	1,045.2	1,045.2	0.0
CK	58,062	364	2,585	0.5	1,045.6	1,045.6	1,045.6	0.0
CL	58,178	205	1,725	0.7	1,045.6	1,045.6	1,045.6	0.0
CM	58,764	117	762	1.6	1,045.6	1,045.6	1,045.6	0.0
CN	58,918	148	555	2.2	1,045.6	1,045.6	1,045.6	0.0
CO	59,077	110	409	3.0	1,046.1	1,046.1	1,046.1	0.0
CP	59,328	27	118	10.3	1,046.1	1,046.1	1,046.1	0.0
CQ	59,526	90	365	4.5	1,048.7	1,048.7	1,049.2	0.5
CR	59,546	90	512	3.2	1,050.1	1,050.1	1,051.0	0.9
CS	59,930	36	208	7.9	1,050.2	1,050.2	1,051.1	0.9
CT	60,247	106	559	2.9	1,055.6	1,055.6	1,056.4	0.8
CU	60,775	112	403	4.1	1,056.8	1,056.8	1,057.5	0.7
CV	61,302	50	190	8.6	1,059.5	1,059.5	1,059.8	0.3
CW	61,648	68	383	3.3	1,063.3	1,063.3	1,063.4	0.1
CX	62,040	80	198	6.4	1,064.4	1,064.4	1,064.5	0.1

[1]Feet above confluence with Chattahoochee River

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

ANNEEWAKEE CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
ANNEEWAKEE CREEK (CONTINUED)								
CY	62,320	158	790	1.6	1,070.0	1,070.0	1,070.0	0.0
CZ	62,642	111	280	4.5	1,070.0	1,070.0	1,070.0	0.0
DA	63,162	50	197	6.4	1,074.3	1,074.3	1,075.2	0.9
DB	63,236	130	438	2.9	1,077.0	1,077.0	1,077.5	0.5
DC	63,821	89	163	7.7	1,082.3	1,082.3	1,082.4	0.1
DD	64,613	76	164	7.7	1,087.5	1,087.5	1,087.5	0.0
DE	65,674	99	240	5.2	1,104.9	1,104.9	1,105.2	0.3
DF	65,761	103	366	3.4	1,107.3	1,107.3	1,108.0	0.7
DG	66,027	100	510	1.4	1,108.1	1,108.1	1,108.9	0.8
DH	66,711	33	151	4.8	1,114.7	1,114.7	1,115.3	0.6
DI	67,120	62	218	3.3	1,131.2	1,131.2	1,131.3	0.1
DJ	67,523	664	470	1.5	1,144.6	1,144.6	1,144.6	0.0
DK	67,595	566	6,096	0.1	1,144.9	1,144.9	1,144.9	0.0
DL	67,930	382	4,134	0.2	1,144.9	1,144.9	1,144.9	0.0
DM	68,314	48	140	5.2	1,147.0	1,147.0	1,147.2	0.2

[1]Feet above confluence with Chattahoochee River

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

ANNEEWAKEE CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
ANNEEWAKEE CREEK TRIBUTARY A								
A	910	32	49	7.4	748.6	748.5	748.5	0.0
B	1,146	73	65	5.5	775.2	775.2	775.2	0.0
C	1,190	155	1,928	0.2	775.7	775.7	775.7	0.0
D	2,074	55	625	0.6	775.7	775.7	775.7	0.0
E	2,886	36	69	5.2	798.8	798.8	798.8	0.0
ANNEEWAKEE CREEK TRIBUTARY B								
A	576	42	97	5.4	749.7	749.7	749.8	0.1
B	1,146	35	76	6.8	767.4	767.4	767.4	0.0
C	1,950	30	83	6.3	799.5	799.5	799.5	0.0
ANNEEWAKEE CREEK TRIBUTARY C								
A	628	35	79	7.8	797.6	797.6	797.7	0.1
B	1,397	26	87	7.1	865.5	865.5	865.6	0.1

[1]Feet above confluence with Anneewakee Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

ANNEEWAKEE CREEK TRIBUTARY A – ANNEEWAKEE CREEK TRIBUTARY B – ANNEEWAKEE CREEK TRIBUTARY C

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
ANNEWAKEE CREEK TRIBUTARY D								
A	219	23	67	8.1	849.7	849.7	849.7	0.0
B	946	13	50	10.8	866.6	866.6	866.6	0.0
C	2,153	11	46	11.8	906.0	906.0	906.5	0.5
ANNEEWAKEE CREEK TRIBUTARY E								
A	836	65	350	1.0	876.6	876.6	876.9	0.3
B	1,462	12	55	6.3	876.6	876.6	877.0	0.4
C	2,205	29	70	5.0	884.6	884.6	885.3	0.7
D	2,913	16	49	7.1	894.2	894.2	894.2	0.0
ANNEEWAKEE CREEK TRIBUTARY F								
A	1,202	449	1,962	0.3	878.6	878.6	879.5	0.9
B	2,007	41	92	5.7	884.2	884.2	884.7	0.5
C	2,438	40	93	5.7	889.4	889.4	889.4	0.0
D	3,310	282	2,181	0.2	912.7	912.7	913.0	0.3
E	4,000	84	491	1.1	912.7	912.7	913.0	0.3

[1]Feet above confluence with Anneewakee Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

ANNEEWAKEE CREEK TRIBUTARY D – ANNEEWAKEE CREEK TRIBUTARY E – ANNEEWAKEE CREEK TRIBUTARY F

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
ANNEEWAKEE CREEK TRIBUTARY G								
A	995	9	47	10.4	895.8	895.8	896.6	0.8
B	1,153	227	805	0.6	899.6	899.6	899.6	0.0
C	1,863	82	123	4.0	921.2	921.2	921.3	0.1
D	2,294	59	89	5.5	933.3	933.3	933.3	0.0
E	3,068	18	37	8.2	956.7	956.7	956.7	0.0
F	3,249	45	50	6.1	969.9	969.9	969.9	0.0
G	3,281	312	3,217	0.1	970.6	970.6	970.6	0.0
H	4,270	60	62	4.9	979.9	979.9	979.9	0.0
ANNEEWAKEE CREEK TRIBUTARY H								
A	1,106	203	568	0.9	893.6	893.6	894.5	0.9
B	1,575	25	60	8.0	899.9	899.9	899.9	0.0
C	2,448	15	60	8.0	915.4	915.4	915.9	0.5

[1]Feet above confluence with Anneewakee Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

ANNEEWAKEE CREEK TRIBUTARY G – ANNEEWAKEE CREEK TRIBUTARY H

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
ANNEEWAKEE CREEK TRIBUTARY I								
A	138	99	613	1.3	894.4	894.4	895.2	0.8
B	773	219	1,814	0.4	911.8	911.8	912.4	0.6
C	970	114	758	5.9	911.8	911.8	912.4	0.6
D	1,225	113	208	4.6	918.7	918.7	918.7	0.0
E	1,980	17	80	9.6	947.7	947.7	947.9	0.2
ANNEEWAKEE CREEK TRIBUTARY J								
A	390	16	128	4.4	945.0	945.0	945.4	0.4
B	775	15	54	10.6	948.0	948.0	948.0	0.0
C	1,143	87	131	4.3	962.3	962.3	962.4	0.1
D	1,479	44	90	6.3	972.9	972.9	973.0	0.1
E	1,877	41	85	6.7	980.5	980.5	980.5	0.0
F	2,688	58	96	5.9	1,009.6	1,009.6	1,009.7	0.1

[1]Feet above confluence with Anneewakee Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

ANNEEWAKEE CREEK TRIBUTARY I - ANNEEWAKEE CREEK TRIBUTARY J

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
ANNEEWAKEE CREEK TRIBUTARY K								
A	97	16	67	3.4	1,063.3	1,063.2[2]	1,063.4	0.2
B	489	11	26	8.8	1,077.1	1,077.1	1,077.1	0.0
C	763	21	48	4.7	1,081.9	1,081.9	1,082.2	0.3
D	835	61	431	0.6	1,090.4	1,090.4	1,090.4	0.0
E	902	56	234	1.2	1,092.9	1,092.9	1,093.3	0.4
F	1,140	24	35	6.4	1,099.6	1,099.6	1,099.6	0.0
G	1,316	12	77	2.9	1,108.1	1,108.1	1,108.2	0.1
H	1,753	14	28	8.0	1,125.3	1,125.3	1,125.3	0.0
I	1,827	449	3,709	0.1	1,126.4	1,126.4	1,126.4	0.0
J	2,121	326	2,701	0.1	1,126.4	1,126.4	1,126.4	0.0
K	2,365	296	2,476	0.1	1,126.4	1,126.4	1,126.4	0.0
L	2,794	21	36	6.3	1,127.6	1,127.6	1,127.7	0.1
ANNEEWAKEE CREEK TRIBUTARY L								
A	143	95	329	1.3	1,108.0	1,108.0	1,108.8	0.8
B	583	12	55	7.6	1,111.0	1,111.0	1,111.1	0.1
C	1,084	26	246	1.7	1,126.3	1,126.3	1,126.5	0.2
D	1,562	29	58	7.3	1,126.5	1,126.5	1,126.6	0.1
E	1,615	50	197	2.7	1,130.1	1,130.1	1,130.5	0.4
F	1,895	17	70	5.9	1,130.9	1,130.9	1,131.1	0.2

[1]Feet above confluence with Anneewakee Creek

[2]Elevation computed without consideration of backwater effects from Anneewakee Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

ANNEEWAKEE CREEK TRIBUTARY K – ANNEEWAKEE CREEK TRIBUTARY L

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
ARBOR BRANCH								
A	101	16	115	13.7	995.0	990.3[2]	990.6	0.3
B	559	34	137	11.5	1,005.8	1,005.8	1,005.9	0.1
C	1,020	34	177	8.9	1,012.6	1,012.6	1,012.8	0.2
D	1,402	24	138	11.3	1,017.1	1,017.1	1,017.2	0.1
E	1,804	67	205	7.7	1,024.9	1,024.9	1,024.9	0.0
F	2,007	33	112	10.7	1,028.2	1,028.2	1,028.2	0.0
G	2,116	118	461	3.3	1,036.7	1,036.7	1,036.7	0.0
H	2,358	174	618	1.9	1,037.0	1,037.0	1,037.0	0.0
I	2,760	197	277	4.3	1,037.3	1,037.3	1,037.5	0.2
J	3,602	38	171	7.0	1,044.5	1,044.5	1,044.7	0.2
K	4,315	40	744	1.6	1,061.3	1,061.3	1,061.3	0.0
L	4,828	75	1,090	2.6	1,061.3	1,061.3	1,061.3	0.0
M	5,404	51	671	4.3	1,061.3	1,061.3	1,061.5	0.2
N	5,486	51	715	4.0	1,061.4	1,061.4	1,062.0	0.6
O	5,766	42	543	5.3	1,061.4	1,061.4	1,062.4	1.0
P	5,926	246	313	8.1	1,062.3	1,062.3	1,062.3	0.0
Q	6,034	287	2,779	0.9	1,063.8	1,063.8	1,063.8	0.0
R	6,471	263	2,540	1.0	1,063.8	1,063.8	1,063.8	0.0
S	7,423	78	674	3.8	1,072.4	1,072.4	1,072.8	0.4
T	8,465	126	394	6.5	1,076.0	1,076.0	1,076.0	0.0
U	9,259	126	331	7.7	1,081.4	1,081.4	1,081.4	0.0

[1]Feet above confluence with Anneewakee Creek

[2]Elevation computed without consideration of backwater effects from Anneewakee Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

ARBOR BRANCH

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
ARBOR BRANCH (CONTINUED)								
V	9,559[1]	79	180	7.6	1,084.1	1,084.1	1,084.1	0.0
W	9,715[1]	65	344	3.7	1,088.6	1,088.6	1,089.4	0.8
X	10,570[1]	32	115	11.1	1,098.2	1,098.2	1,098.2	0.0
Y	11,217[1]	24	207	6.1	1,103.9	1,103.9	1,104.9	1.0
Z	11,365[1]	75	837	1.5	1,112.9	1,112.9	1,113.9	1.0
AA	11,990[1]	25	164	7.8	1,114.2	1,114.2	1,114.8	0.6
AB	12,564[1]	63	180	7.0	1,121.1	1,121.1	1,121.1	0.0
AC	12,655[1]	90	344	3.7	1,124.2	1,124.2	1,125.2	1.0
AD	12,770[1]	30	124	10.2	1,124.6	1,124.6	1,125.5	0.9
ARBOR BRANCH TRIBUTARY A								
A	73[2]	30	128	2.8	1,083.6	1,083.5[3]	1,083.5	0.0
B	170[2]	15	41	8.8	1,083.5	1,083.5	1,083.5	0.0
C	343[2]	74	248	1.5	1,090.4	1,090.4	1,090.4	0.0
D	888[2]	15	39	9.1	1,094.2	1,094.2	1,094.3	0.1
E	1,265[2]	17	138	2.6	1,112.6	1,112.6	1,112.6	0.0
F	1,560[2]	35	192	5.0	1,112.9	1,112.9	1,113.7	0.8
G	2,388[2]	75	199	4.9	1,127.4	1,127.4	1,128.3	0.9

[1]Feet above confluence with Anneewakee Creek

[2]Feet above confluence with Arbor Branch

[3]Elevation computed without consideration of backwater effects from Arbor Branch

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

ARBOR BRANCH – ARBOR BRANCH TRIBUTARY A

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
AUSTIN CREEK								
A	29	24	72	9.9	935.1	930.2[2]	930.2	0.0
B	321	36	306	2.8	947.4	947.4	947.4	0.0
C	846	36	89	8.0	951.3	951.3	951.3	0.0
D	1,562	10	54	13.1	977.4	977.4	977.4	0.0
E	1,642	214	2,853	0.3	980.4	980.4	980.4	0.0
F	1,839	174	2,318	0.3	980.4	980.4	980.4	0.0
G	2,312	256	3,394	0.2	980.4	980.4	980.4	0.0
H	2,722	113	827	0.9	980.4	980.4	980.4	0.0
I	2,884	336	175	4.1	1,002.2	1,002.2	1,002.2	0.0
J	2,921	296	2,776	0.2	1,002.5	1,002.5	1,002.5	0.0
K	3,614	319	2,940	0.2	1,002.5	1,002.5	1,002.5	0.0
L	4,033	328	3,082	0.2	1,002.5	1,002.5	1,002.5	0.0
M	4,563	30	70	8.6	1,002.7	1,002.7	1,002.7	0.0
N	4,623	30	234	2.9	1,008.9	1,008.9	1,008.9	0.0
O	5,200	83	631	0.9	1,022.5	1,022.5	1,023.2	0.7
P	5,827	47	96	6.2	1,023.1	1,023.1	1,023.5	0.4
Q	6,830	49	81	7.3	1,073.2	1,073.2	1,073.2	0.0
R	6,908	631	7,589	0.1	1,074.1	1,074.1	1,074.1	0.0
S	7,146	427	5,147	0.1	1,074.1	1,074.1	1,074.1	0.0
T	7,444	447	5,295	0.1	1,074.1	1,074.1	1,074.1	0.0
U	7,726	74	198	3.0	1,076.5	1,076.5	1,076.5	0.0
V	7,963	15	90	6.6	1,082.8	1,082.8	1,083.5	0.7

[1]Feet above confluence with Anneewakee Creek

[2]Elevation computed without consideration of backwater effects from Anneewakee Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

AUSTIN CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
BALDWIN CREEK								
A	1,144	190	882	3.5	778.9	778.9	778.9	0.0
B	1,321	80	369	8.3	779.4	779.4	779.5	0.1
C	2,110	69	307	10.0	784.9	784.9	785.0	0.1
D	2,807	108	622	4.9	790.6	790.6	791.6	1.0
E	3,193	90	284	10.7	792.3	792.3	792.6	0.3
F	3,218	90	541	5.6	794.8	794.8	795.1	0.3
G	4,296	190	415	5.5	803.1	803.1	803.1	0.0
H	4,322	268	946	2.4	805.8	805.8	805.8	0.0
I	4,901	117	385	5.9	810.8	810.8	811.0	0.2
J	5,726	135	483	4.7	819.0	819.0	819.3	0.3
K	6,646	102	331	6.8	831.0	831.0	831.0	0.0
L	6,966	121	398	5.7	835.8	835.8	835.8	0.0
M	7,754	46	212	10.7	848.8	848.8	848.8	0.0
N	8,592	97	297	7.6	881.9	881.9	882.0	0.1
O	9,632	110	392	5.8	894.0	894.0	894.0	0.0
P	10,190	121	747	3.0	905.1	905.1	905.1	0.0
Q	11,712	160	607	3.7	917.4	917.4	917.4	0.0
R	12,851	88	329	6.9	939.3	939.3	939.3	0.0
S	13,026	39	136	4.2	942.6	942.6	942.6	0.0
T	14,142	50	107	5.4	967.6	967.6	967.6	0.0
U	14,764	27	61	9.5	976.9	976.9	976.9	0.0

[1]Feet above confluence with Little Bear Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

BALDWIN CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
BALDWIN CREEK (CONTINUED)								
V	14,850	87	682	0.8	983.0	983.0	983.9	0.9
W	15,478	30	62	9.3	986.9	986.9	986.9	0.0
X	15,505	30	140	4.1	990.5	990.5	990.8	0.3
Y	16,459	70	83	6.9	1,010.3	1,010.3	1,010.3	0.0
Z	17,119	25	60	9.6	1,021.3	1,021.3	1,021.3	0.0
AA	17,175	47	315	1.8	1,028.9	1,028.9	1,029.5	0.6
AB	17,668	33	75	7.6	1,031.6	1,031.6	1,031.7	0.1
AC	17,728	47	170	3.4	1,035.9	1,035.9	1,036.3	0.4
AD	18,517	60	115	5.0	1,049.4	1,049.4	1,049.7	0.3

[1]Feet above confluence with Little Bear Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

BALDWIN CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
BALDWIN CREEK TRIBUTARY A								
A	110	20	67	10.2	943.7	943.7	943.7	0.0
B	450	36	57	6.7	957.6	957.6	957.6	0.0
C	506	123	928	0.4	958.6	958.6	958.6	0.0
D	715	123	906	0.4	958.6	958.6	958.6	0.0
E	1,135	66	91	4.2	967.0	967.0	967.0	0.0
F	2,479	48	64	5.9	997.9	997.9	997.9	0.0
G	2,586	50	58	6.5	1,000.6	1,000.6	1,000.6	0.0
H	3,403	29	52	7.4	1,015.4	1,015.4	1,015.4	0.0
I	4,190	38	54	7.0	1,040.6	1,040.6	1,040.6	0.0
J	4,756	63	81	4.7	1,070.5	1,070.5	1,070.5	0.0
K	4,804	95	259	1.5	1,074.9	1,074.9	1,075.8	0.9
L	4,989	75	93	4.1	1,083.9	1,083.9	1,084.8	0.9

[1]Feet above confluence with Baldwin Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

BALDWIN CREEK TRIBUTARY A

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
BEAR CREEK								
A	1,085	70	769	10.2	738.4	724.7[2]	724.9	0.2
B	1,571	122	1,355	5.8	738.4	726.6[2]	726.8	0.2
C	1,949	64	568	13.8	738.4	726.6[2]	726.8	0.2
D	1,989	73	773	10.1	738.4	728.3[2]	728.3	0.0
E	2,994	55	753	10.4	738.4	731.9[2]	732.3	0.4
F	3,246	222	1,194	6.6	738.4	733.6[2]	733.7	0.1
G	3,534	140	1,274	6.1	738.4	734.5[2]	735.0	0.5
H	3,794	130	1,046	7.5	738.4	734.6[2]	735.3	0.7
I	4,031	71	924	8.5	738.4	735.2[2]	736.0	0.8
J	4,090	71	960	8.2	738.4	735.7[2]	736.5	0.8
K	4,831	69	1,045	7.5	738.4	737.5[2]	738.4	0.9
L	5,724	75	1,025	7.7	738.4	740.1[2]	740.7	0.6
M	6,142	136	823	9.6	753.6	753.6	754.0	0.4
N	6,197	151	1,790	4.4	756.0	756.0	757.0	1.0
O	6,479	743	9,082	0.9	756.4	756.4	757.3	0.9
P	6,924	536	6,550	1.2	756.4	756.4	757.3	0.9
Q	7,453	857	10,506	0.8	756.4	756.4	757.3	0.9
R	7,827	588	7,202	1.1	756.4	756.4	757.3	0.9
S	8,353	407	4,978	1.6	756.4	756.4	757.3	0.9
T	8,785	278	3,147	2.6	756.4	756.4	757.3	0.9
U	9,049	321	3,931	2.1	756.4	756.4	757.3	0.9
V	9,520	355	2,826	2.9	756.4	756.4	757.3	0.9

[1]Feet above confluence with Chattahoochee River

[2]Elevation computed without consideration of backwater effects from Chattahoochee River

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

BEAR CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
BEAR CREEK (CONTINUED)								
W	10,590	180	1,098	7.4	756.7	756.7	757.5	0.8
X	11,411	451	2,852	2.8	761.3	761.3	762.2	0.9
Y	11,802	300	1,983	2.0	762.1	762.1	763.1	1.0
Z	12,284	80	478	8.3	764.4	764.4	765.2	0.8
AA	12,300	80	544	7.3	764.9	764.9	765.9	1.0
AB	13,227	85	423	9.4	771.5	771.5	772.3	0.8
AC	13,776	250	1,160	3.3	776.1	776.1	776.9	0.8
AD	14,632	225	670	5.7	778.8	778.8	779.2	0.4
AE	15,479	129	453	8.4	784.5	784.5	784.7	0.2
AF	16,476	51	283	13.5	807.5	807.5	807.5	0.0
AG	16,810	55	295	12.9	813.4	813.4	813.4	0.0
AH	17,119	134	492	7.5	818.6	818.6	818.9	0.3
AI	17,258	88	371	10.0	820.9	820.9	820.9	0.0
AJ	17,531	78	490	7.2	824.2	824.2	824.2	0.0
AK	17,833	80	404	8.8	825.7	825.7	825.7	0.0
AL	18,154	72	324	10.9	831.2	831.2	831.2	0.0
AM	18,642	40	390	9.1	836.8	836.8	836.8	0.0
AN	18,979	55	341	10.4	839.0	839.0	839.1	0.1
AO	19,812	76	323	11.0	853.7	853.7	853.7	0.0
AP	20,991	47	258	13.7	918.6	918.6	918.6	0.0

[1]Feet above confluence with Chattahoochee River

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

BEAR CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
BEAR CREEK (CONTINUED)								
AQ	21,064	51	513	7.2	926.7	926.7	926.7	0.0
AR	21,510	250	2,262	1.6	927.7	927.7	927.7	0.0
AS	22,323	220	1,435	2.6	927.8	927.8	927.9	0.1
AT	22,795	75	424	8.7	927.8	927.8	927.9	0.1
AU	23,748	100	579	6.4	932.9	932.9	933.6	0.7
AV	24,304	144	727	4.5	935.9	935.9	936.0	0.1
AW	25,058	180	895	3.7	938.0	938.0	938.6	0.6
AX	25,664	211	597	5.5	941.2	941.2	941.2	0.0
AY	25,674	221	1,097	3.0	943.1	943.1	943.8	0.7
AZ	26,150	150	793	4.1	943.9	943.9	944.6	0.7
BA	26,634	125	605	5.4	944.9	944.9	945.8	0.9
BB	27,390	170	685	4.8	948.4	948.4	949.1	0.7
BC	28,011	110	751	4.4	952.1	952.1	953.0	0.9
BD	28,711	41	192	6.5	954.0	954.0	954.8	0.8
BE	29,085	38	158	7.9	956.1	956.1	956.3	0.2
BF	29,247	162	270	4.6	958.3	958.3	958.3	0.0
BG	30,033	35	118	10.6	970.0	970.0	970.0	0.0
BH	30,173	41	300	4.2	980.7	980.7	980.7	0.0
BI	30,554	200	1,540	0.8	981.1	981.1	981.1	0.0
BJ	31,052	119	215	5.8	981.1	981.1	981.1	0.0

[1]Feet above confluence with Chattahoochee River

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

BEAR CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
BEAR CREEK (CONTINUED)								
BK	31,110	200	507	2.5	983.3	983.3	983.5	0.2
BL	31,527	200	212	5.9	1,000.7	1,000.7	1,000.7	0.0
BM	31,641	403	4,528	0.3	1,001.3	1,001.3	1,001.3	0.0
BN	32,107	384	4,289	0.3	1,001.3	1,001.3	1,001.3	0.0
BO	32,508	186	1,074	1.2	1,001.3	1,001.3	1,001.3	0.0
BP	33,097	30	125	10.0	1,001.7	1,001.7	1,001.7	0.0
BQ	33,151	80	433	2.9	1,006.8	1,006.8	1,007.7	0.9
BR	33,790	119	606	2.1	1,007.5	1,007.5	1,008.4	0.9
BS	34,485	64	205	6.1	1,012.0	1,012.0	1,012.8	0.8
BT	34,560	90	392	3.2	1,015.6	1,015.6	1,016.5	0.9
BU	35,144	30	111	11.3	1,024.1	1,024.1	1,024.1	0.0
BV	35,214	61	454	2.8	1,031.0	1,031.0	1,031.9	0.9
BW	35,869	36	121	10.4	1,040.2	1,040.2	1,040.2	0.0
BX	36,504	57	177	7.1	1,048.3	1,048.3	1,048.7	0.4
BY	36,534	57	311	4.0	1,051.5	1,051.5	1,052.5	1.0
BZ	37,091	51	197	6.4	1,058.0	1,058.0	1,058.7	0.7
CA	37,863	50	167	5.0	1,067.0	1,067.0	1,067.8	0.8
CB	38,644	55	142	5.8	1,075.3	1,075.3	1,076.3	1.0
CC	39,440	27	95	8.7	1,087.5	1,087.5	1,088.0	0.5
CD	40,010	29	108	7.7	1,094.7	1,094.7	1,095.1	0.4

[1]Feet above confluence with Chattahoochee River

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

BEAR CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
BEAR CREEK (CONTINUED)								
CE	40,269[1]	50	138	6.0	1,098.0	1,098.0	1,098.6	0.6
CF	40,340[1]	50	253	3.3	1,101.3	1,101.3	1,102.2	0.9
CG	40,754[1]	48	97	8.5	1,107.1	1,107.1	1,107.1	0.0
CH	40,816[1]	70	225	3.7	1,109.7	1,109.7	1,110.2	0.5
CI	41,155[1]	28	82	10.1	1,115.1	1,115.1	1,115.1	0.0
CJ	41,222[1]	55	283	2.9	1,119.0	1,119.0	1,119.9	0.9
CK	41,245[1]	78	284	2.9	1,119.0	1,119.0	1,119.9	0.9
CL	41,262[1]	87	259	3.2	1,119.0	1,119.0	1,119.9	0.9
CM	41,359[1]	20	75	11.1	1,120.2	1,120.2	1,120.2	0.0
CN	41,557[1]	22	78	10.7	1,122.6	1,122.6	1,123.5	0.9
CO	41,813[1]	15	68	12.2	1,128.3	1,128.3	1,129.1	0.8
BEAR CREEK TRIBUTARY A								
A	211[2]	72	791	0.7	739.1	733.8[3]	734.2	0.4
B	1,191[2]	11	38	10.5	751.5	751.5	752.0	0.5

[1]Feet above confluence with Chattahoochee River

[2]Feet above confluence with Bear Creek

[3]Elevation computed without consideration of backwater effects from Chattahoochee River

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

BEAR CREEK – BEAR CREEK TRIBUTARY A

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
BEAR CREEK TRIBUTARY B								
A	119	32	229	1.3	740.9	735.2[2]	736.0	0.8
B	1,081	22	38	7.9	757.8	757.8	757.8	0.0
C	1,302	85	1,323	0.2	779.9	779.9	780.9	1.0
D	1,733	11	35	8.5	780.0	780.0	780.3	0.3
BEAR CREEK TRIBUTARY C								
A	173	264	3,208	0.2	756.4	756.4	757.3	0.9
B	1,398	23	81	8.6	763.1	763.1	763.6	0.5
C	2,151	25	75	9.3	776.4	776.4	776.5	0.1
D	2,196	58	193	3.6	779.0	779.0	780.0	1.0
E	2,571	24	106	6.6	782.2	782.2	782.9	0.7
BEAR CREEK TRIBUTARY D								
A	195	32	185	3.3	761.9	761.9	762.8	0.9
B	689	16	45	9.4	768.5	768.5	768.5	0.0
C	1,245	15	52	8.1	796.7	796.7	797.1	0.4
D	1,352	15	190	2.2	810.7	810.7	811.4	0.7
E	1,399	160	1,350	0.3	810.7	810.7	811.5	0.8
F	1,499	95	386	1.1	813.4	813.4	813.4	0.0
G	1,862	20	68	6.2	819.6	819.6	820.5	0.9

[1] Feet above confluence with Bear Creek

[2] Elevation computed without consideration of backwater effects from Chattahoochee River

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

BEAR CREEK TRIBUTARY B – BEAR CREEK TRIBUTARY C – BEAR CREEK TRIBUTARY D

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
BEAR CREEK TRIBUTARY E								
A	214	25	117	2.3	775.2	775.2	776.1	0.9
B	1,176	135	63	3.9	824.5	824.5	824.5	0.0
C	1,269	217	1,212	0.2	824.7	824.7	824.7	0.0
D	1,728	234	1,316	0.2	824.7	824.7	824.7	0.0
E	2,140	18	32	7.5	826.8	826.8	826.8	0.0
BEAR CREEK TRIBUTARY F								
A	166	18	81	10.8	819.2	819.2	819.6	0.4
B	1,064	24	72	9.8	835.8	835.8	835.8	0.0
C	1,438	13	63	11.1	844.4	844.4	844.5	0.1
D	2,455	66	129	5.5	861.2	861.2	861.4	0.2
E	2,511	70	450	1.6	871.6	871.6	872.5	0.9
F	3,079	50	105	6.7	885.0	885.0	885.0	0.0
G	3,210	50	650	1.1	900.1	900.1	901.0	0.9
H	3,545	11	56	12.6	900.9	900.9	901.2	0.3

[1]Feet above confluence with Bear Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

BEAR CREEK TRIBUTARY E – BEAR CREEK TRIBUTARY F

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
BEAR CREEK TRIBUTARY G								
A	278[1]	20	45	8.2	834.4	834.4	834.4	0.0
B	1,251[1]	17	42	8.8	899.7	899.7	899.7	0.0
C	2,080[1]	38	54	6.8	937.0	937.0	937.0	0.0
D	2,542[1]	31	44	8.2	957.0	957.0	957.0	0.0
E	2,624[1]	32	256	1.4	964.1	964.1	965.1	1.0
F	2,917[1]	13	38	9.6	967.0	967.0	967.2	0.2
BEAVER CREEK								
A	3,602[2]	833	19,732	0.2	897.3	897.3	897.3	0.0
B	5,416[2]	1,161	14,393	0.3	897.3	897.3	897.3	0.0
C	7,889[2]	672	5,479	3.5	897.3	897.3	897.3	0.0
D	8,471[2]	200	1,767	7.9	899.3	899.3	899.4	0.1
E	10,259[2]	490	4,222	3.4	903.0	903.0	903.0	0.0
F	12,247[2]	48	377	16.1	911.0	911.0	911.0	0.0
G	14,036[2]	598	6,747	1.0	914.3	914.3	914.3	0.0
H	15,882[2]	203	2,636	2.6	926.3	926.3	926.9	0.6
I	17,220[2]	486	2,947	0.6	926.6	926.6	927.4	0.8
J	18,800[2]	412	1,001	1.8	935.1	935.1	935.1	0.0
K	20,488[2]	100	358	10.3	947.1	947.1	947.5	0.4

[1]Feet above confluence with Bear Creek

[2]Feet above confluence with Sweetwater Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

BEAR CREEK TRIBUTARY G – BEAVER CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
BEAVER CREEK (CONTINUED)								
L	21,661[1]	149	346	10.4	959.0	959.0	959.1	0.1
M	22,643[1]	21	53	9.0	967.9	967.9	967.9	0.0
N	23,505[1]	22	53	9.8	981.0	981.0	981.0	0.0
O	24,129[1]	73	105	7.9	996.0	996.0	996.4	0.4
BEAVER CREEK TRIBUTARY A								
A	1,024[2]	111	147	1.9	916.6	916.6	916.6	0.0
B	1,978[2]	316	2,638	0.1	942.0	942.0	942.0	0.0
C	2,391[2]	149	460	1.1	950.6	950.6	950.6	0.0
BOMAR BRANCH								
A	3,051[3]	100	619	1.1	896.4	896.4	896.4	0.0
B	3,791[3]	16	61	11.4	896.4	896.4	896.4	0.0
C	4,220[3]	20	79	8.8	902.0	902.0	902.0	0.0
D	5,062[3]	45	354	2.0	921.8	921.8	922.8	1.0
E	5,284[3]	33	210	3.3	921.9	921.9	922.8	0.9
F	5,570[3]	27	284	2.4	932.2	932.2	933.1	0.9
G	5,982[3]	29	303	2.3	938.4	938.4	939.3	0.9
H	6,157[3]	50	338	2.1	938.5	938.5	939.4	0.9

[1]Feet above confluence with Sweetwater Creek

[2]Feet above confluence with Beaver Creek

[3]Feet above confluence with Anneewakee Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

BEAVER CREEK – BOMAR BRANCH

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CAMP BRANCH								
A	878 [1]	50	208	6.5	975.0	975.0	975.6	0.6
B	1,961 [1]	58	199	6.5	986.7	986.7	986.8	0.1
C	3,222 [1]	32	129	10.0	1,002.8	1,002.8	1,003.5	0.7
D	5,023 [1]	87	210	4.6	1,023.8	1,023.8	1,024.2	0.4
E	6,418 [1]	48	112	6.4	1,035.6	1,035.6	1,035.6	0.0
F	7,679 [1]	15	63	8.1	1,056.0	1,056.0	1,056.6	0.6
CAMP BRANCH TRIBUTARY A								
A	469 [2]	18	28	7.8	1,056.6	1,056.6	1,056.6	0.0

[1]Feet above confluence with Hurricane Creek

[2]Feet above confluence with Camp Branch

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

CAMP BRANCH – CAMP BRANCH TRIBUTARY A

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CHAPEL FARMS CREEK								
A	755[1]	141	635	5.9	772.2	772.2	773.1	0.9
B	1,877[1]	56	182	9.3	801.8	801.8	801.8	0.0
C	2,670[1]	92	278	6.1	852.7	852.7	852.9	0.2
D	3,462[1]	24	143	11.8	871.7	871.7	872.1	0.4
E	4,281[1]	28	133	9.6	884.7	884.7	884.9	0.2
F	4,808[1]	27	111	11.5	888.3	888.3	888.3	0.0
G	4,907[1]	31	227	5.7	896.4	896.4	896.4	0.0
H	5,801[1]	130	376	3.4	899.6	899.6	900.6	1.0
I	6,604[1]	50	179	7.1	906.4	906.4	907.3	0.9
J	7,329[1]	46	202	3.0	916.6	916.6	917.6	1.0
CHAPEL FARMS CREEK TRIBUTARY A								
A	396[2]	14	55	7.9	913.5	913.5	913.8	0.3
B	1,020[2]	28	102	4.3	920.4	920.4	921.3	0.9

[1]Feet above confluence with Anneewakee Creek

[2]Feet above confluence with Chapel Farms Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

CHAPEL FARMS CREEK – CHAPEL FARMS CREEK TRIBUTARY A

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH[2] (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CHATTAHOOCHEE RIVER								
BC	69.9	344/530	12,122	4.9	730.6	730.6	731.3	0.7
BD	70.2	653/855	16,613	3.6	731.6	731.6	732.2	0.6
BE	71.0	1,050/1,200	19,551	3.1	732.9	732.9	733.9	1.0
BF	73.0	794/1,100	19,767	2.9	736.5	736.5	737.5	0.9
BG	73.8	1,344/1,834	28,706	2.0	737.8	737.8	738.6	0.9
BH	74.2	926/1,376	20,884	2.7	738.3	738.3	739.1	0.9
BI	76.2	1,780/1,970	24,149	2.3	741.3	741.3	742.2	0.9
BJ	76.9	702/1,400	23,409	2.4	742.4	742.4	743.3	1.0
BK	77.2	251/1,195	20,160	2.8	742.6	742.6	743.5	0.9
BL	77.6	416/900	17,145	3.3	743.2	743.2	744.1	0.8
BM	78.3	287/1,200	19,444	2.9	745.1	745.1	745.9	0.9
BN	78.6	179/1,200	21,306	2.6	745.5	745.5	746.4	0.9
BO	79.9	566/1,200	22,679	2.5	747.1	747.1	748.1	0.9
BP	80.9	540/806	17,191	3.1	748.5	748.5	749.3	0.9
BQ	81.1	449/679	17,792	3.0	748.9	748.9	749.7	0.8
BR	82.8	879/1,915	30,758	1.7	750.6	750.6	751.5	0.9
BS	83.7	160/924	14,332	3.6	751.4	751.4	752.3	1.0
BT	84.0	316/725	14,956	3.5	752.1	752.1	753.0	0.9
BU	84.3	848/848	17,266	3.0	752.6	752.6	753.4	0.8
BV	85.4	500/825	16,559	3.1	754.0	754.0	754.9	0.9

[1]Miles above West Lake Dam

[2]Width within county / Total width

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

CHATTAHOOCHEE RIVER

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH[2] (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CHATTAHOOCHEE RIVER (CONTINUED)								
BW	85.7	81/887	19,053	2.7	754.6	754.6	755.3	0.8
BX	87.0	502/1,637	31,322	1.7	755.7	755.7	756.6	0.8
BY	88.1	793/1,041	18,236	2.4	756.5	756.5	757.4	0.8
BZ	89.1	331/516	12,209	3.6	757.4	757.4	758.2	0.9
CA	90.0	920/1,326	19,594	2.2	758.6	758.6	759.4	0.8
CB	90.2	333/638	13,121	3.3	758.7	758.7	759.4	0.7
CC	90.4	386/721	15,473	2.8	759.3	759.3	760.0	0.7

[1]Miles above West Lake Dam

[2]Width within county / Total width

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

CHATTAHOOCHEE RIVER

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
COURSEY CREEK								
A	501	20	62	9.5	816.2	816.2	817.1	0.9
B	995	25	85	6.9	821.4	821.4	821.8	0.4
C	1,009	25	83	7.1	822.3	822.3	822.3	0.0
D	1,564	11	53	11.1	829.4	829.4	829.8	0.4
E	2,053	15	53	11.0	856.1	856.1	856.1	0.0
F	2,126	16	54	10.9	857.3	857.3	857.3	0.0
G	2,768	17	50	9.8	860.2	860.2	860.2	0.0
H	2,917	96	367	1.3	865.6	865.6	866.4	0.8
I	3,525	58	107	4.6	886.9	886.9	886.9	0.0
J	3,599	197	1,596	0.3	887.6	887.6	888.1	0.5
K	4,118	388	3,142	0.2	887.6	887.6	888.1	0.5
L	4,468	234	1,894	0.3	887.6	887.6	888.1	0.5
M	5,206	10	43	11.4	927.7	927.7	927.7	0.0
N	5,325	377	4,496	0.1	929.4	929.4	929.9	0.5
O	5,591	271	3,165	0.2	929.4	929.4	929.9	0.5
P	5,971	401	4,763	0.1	929.4	929.4	929.9	0.5
Q	6,537	111	1,283	0.4	929.4	929.4	929.9	0.5
R	7,353	12	44	11.1	944.3	944.3	944.6	0.3

[1]Feet above confluence with Little Bear Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

COURSEY CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CROOKED CREEK								
A	968	305	1,337	2.5	875.1	875.1	876.1	1.0
B	2,264	120	691	4.8	878.6	878.6	879.6	1.0
C	3,115	424	1,948	1.7	882.8	882.8	883.8	1.0
D	3,151	270	1,286	2.6	882.8	882.8	883.8	1.0
E	4,164	130	510	6.6	884.5	884.5	885.5	1.0
F	5,318	177	792	4.5	889.0	889.0	889.7	0.7
G	6,373	200	892	4.0	892.7	892.7	893.7	1.0
H	6,434	200	1,439	2.5	896.2	896.2	897.1	0.9
I	7,697	125	613	4.3	898.0	898.0	899.0	1.0
J	8,501	170	661	4.0	900.3	900.3	901.1	0.8
K	8,842	190	413	9.6	902.1	902.1	902.3	0.2
L	8,926	190	1,571	1.7	908.5	908.5	908.8	0.3
M	9,490	192	1,402	1.7	908.7	908.7	909.0	0.3
N	10,414	68	468	5.1	913.9	913.9	914.1	0.2
O	10,684	30	251	8.7	913.9	913.9	914.5	0.6
P	11,275	50	302	7.2	917.8	917.8	918.7	0.9
Q	12,064	45	239	9.1	923.1	923.1	923.8	0.7
R	13,022	35	169	8.6	931.6	931.6	932.4	0.8
S	14,263	75	188	7.7	945.2	945.2	945.3	0.1
T	14,923	40	149	9.8	953.6	953.6	953.6	0.0
U	14,991	65	468	3.1	960.2	960.2	960.8	0.6

[1]Feet above confluence with Anneewakee Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

CROOKED CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CROOKED CREEK (CONTINUED)								
V	16,278[1]	55	181	8.0	967.6	967.6	967.6	0.0
W	17,433[1]	60	173	6.4	983.1	983.1	984.0	0.9
X	18,249[1]	113	232	4.8	1,000.4	1,000.4	1,000.4	0.0
Y	18,807[1]	37	121	9.2	1,011.0	1,011.0	1,011.0	0.0
Z	18,874[1]	37	455	2.4	1,020.7	1,020.7	1,021.5	0.8
CROOKED CREEK TRIBUTARY A								
A	1,333[2]	107	202	5.0	925.3	925.3	925.9	0.6
B	2,537[2]	65	296	2.7	925.9	925.9	926.9	1.0
C	3,352[2]	40	151	5.2	930.5	930.5	931.4	0.9
D	4,268[2]	40	86	9.2	942.5	942.5	942.5	0.0
CROOKED CREEK TRIBUTARY B								
A	336[2]	130	675	0.9	908.7	908.7	909.2	0.5
B	1,509[2]	33	69	8.8	924.8	924.8	924.8	0.0
C	1,942[2]	29	121	5.0	929.5	929.5	930.4	0.9
D	2,044[2]	29	295	2.1	938.3	938.3	939.2	0.9
E	2,282[2]	18	118	5.1	938.3	938.3	939.2	0.9

[1]Feet above confluence with Anneewakee Creek

[2]Feet above confluence with Crooked Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

CROOKED CREEK – CROOKED CREEK TRIBUTARY A – CROOKED CREEK TRIBUTARY B

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CROOKED CREEK TRIBUTARY C								
A	301	29	119	5.2	914.1	914.1	915.1	1.0
B	980	37	244	2.5	924.3	924.3	925.2	0.9
C	1,573	55	244	2.5	934.2	934.2	934.7	0.5
D	1,965	24	95	6.5	934.4	934.4	934.8	0.4
CROOKED CREEK TRIBUTARY D								
A	114	20	110	4.2	930.9	930.9	931.8	0.9
B	718	73	88	5.2	948.6	948.6	949.2	0.6
C	802	310	2,998	0.2	948.8	948.8	949.8	1.0
D	1,865	34	55	7.3	963.4	963.4	963.4	0.0
E	1,944	357	3,294	0.1	964.3	964.3	964.3	0.0
F	2,557	151	330	5.1	964.3	964.3	964.3	0.0
G	2,604	129	315	1.3	968.0	968.0	968.1	0.1
H	2,876	11	54	7.4	968.7	968.7	969.6	0.9

[1]Feet above confluence with Crooked Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

CROOKED CREEK TRIBUTARY C – CROOKED CREEK TRIBUTARY D

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
CROSSING BRANCH								
A	1,028[1]	65	157	3.7	904.7	902.6[3]	903.5	0.9
B	1,468[1]	40	131	4.4	906.7	906.7	907.2	0.5
C	2,029[1]	40	106	5.4	911.8	911.8	912.1	0.3
D	2,061[1]	40	170	3.4	913.6	913.6	914.5	0.9
E	2,354[1]	34	113	5.1	914.8	914.8	915.2	0.4
F	2,600[1]	455	6,489	0.1	946.0	946.0	946.0	0.0
G	2,902[1]	646	10,271	0.1	946.0	946.0	946.0	0.0
H	3,745[1]	330	5,215	0.1	946.0	946.0	946.0	0.0
I	4,210[1]	88	164	4.2	946.0	946.0	946.0	0.0
J	5,284[1]	63	117	5.9	963.2	963.2	963.3	0.1
K	6,342[1]	25	111	6.3	984.9	984.9	985.5	0.6
DOG RIVER								
A	1415[2]	527	5,340	3.6	735.5	730.2[4]	731.1	0.9

[1]Feet above confluence with Anneewakee Creek

[2]Feet above confluence with Chattahoochee River

[3]Elevation computed without consideration of backwater effects from Anneewakee Creek

[4]Elevation computed without consideration of backwater effects from Chattahoochee River

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

CROSSING BRANCH – DOG RIVER

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
DORSETT CREEK								
A	51	366[2]	189	5.6	935.5	933.0[3]	933.7	0.7
B	918	10	55	12.5	940.1	940.1	940.4	0.3
C	1,474	18	88	7.8	944.7	944.7	945.7	1.0
D	2,678	15	69	10.1	965.0	965.0	965.3	0.3
E	3,414	16	72	9.7	975.6	975.6	976.0	0.4
F	3,497	51	298	1.4	980.9	980.9	980.9	0.0
G	4,386	18	55	7.8	993.5	993.5	993.9	0.4
H	5,141	15	76	5.6	1,005.2	1,005.2	1,006.2	1.0
I	5,166	18	166	2.6	1,009.8	1,009.8	1,010.4	0.6
J	5,791	13	42	10.1	1,021.6	1,021.6	1,021.8	0.2
K	5,853	315	1,404	0.3	1,022.9	1,022.9	1,023.5	0.6
L	6,001	190	128	3.3	1,022.9	1,022.9	1,023.5	0.6
M	6,077	55	272	1.6	1,026.3	1,026.3	1,026.8	0.5
N	6,697	101	91	4.7	1,044.1	1,044.1	1,044.8	0.7
O	6,740	514	2,682	0.2	1,044.3	1,044.3	1,045.2	0.9
P	7,180	270	1,407	0.3	1,044.3	1,044.3	1,045.2	0.9
Q	7,467	24	118	3.6	1,044.3	1,044.3	1,045.2	0.9
R	7,562	47	321	1.3	1,050.6	1,050.6	1,051.5	0.9
S	7,788	21	120	3.6	1,050.6	1,050.6	1,051.5	0.9
T	7,883	44	438	1.0	1,058.7	1,058.7	1,059.6	0.9
U	7,966	117	980	0.4	1,058.7	1,058.7	1,059.7	1.0

[1]Feet above confluence with Bear Creek

[2]Includes combined floodway width with Bear Creek

[3]Elevation computed without consideration of backwater effects from Bear Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

DORSETT CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
DORSETT CREEK (CONTINUED)								
V	7,989 [1]	117	967	0.4	1,058.7	1,058.7	1,059.7	1.0
W	8,271 [1]	36	136	3.1	1,058.7	1,058.7	1,059.7	1.0
DRY CREEK								
A	1,884 [2]	432	7,178	0.2	898.0	898.0	898.0	0.0
B	3,787 [2]	150	1,078	2.6	898.3	898.3	898.3	0.0
C	5,361 [2]	150	515	5.0	900.4	900.4	900.7	0.3
D	6,857 [2]	105	416	4.8	911.4	911.4	911.4	0.0
E	8,149 [2]	50	287	7.0	919.4	919.4	920.0	0.6
F	9,883 [2]	75	273	4.0	929.7	929.7	930.6	0.9
G	10,906 [2]	175	1,060	1.0	939.0	939.0	939.9	0.9
H	12,432 [2]	30	87	6.6	951.3	951.3	951.8	0.5
I	13,480 [2]	50	95	6.1	966.9	966.9	967.1	0.2
J	14,461 [2]	11	42	7.2	978.2	978.2	978.8	0.6

[1]Feet above confluence with Bear Creek

[2]Feet above confluence with Beaver Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

DORSETT CREEK – DRY CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
DRY CREEK TRIBUTARY A								
A	740	43	161	5.9	901.0	901.0	901.6	0.6
B	2,221	15	92	10.4	917.1	917.1	917.9	0.8
DRY CREEK TRIBUTARY B								
A	715	6	24	10.9	935.5	935.5	935.8	0.3
DRY CREEK TRIBUTARY C								
A	1,453	25	87	5.8	963.5	963.5	964.0	0.5

[1]Feet above confluence with Dry Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

DRY CREEK TRIBUTARY A – DRY CREEK TRIBUTARY B – DRY CREEK TRIBUTARY C

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
FARM BRANCH								
A	1,431[2]	44	131	6.9	889.1	889.1	889.6	0.5
B	2,014[2]	55	364	2.9	900.4	900.4	901.1	0.7
C	3,015[2]	33	99	9.2	913.7	913.7	913.7	0.0
D	3,488[2]	57	333	2.7	927.4	927.4	928.2	0.8
FARM BRANCH TRIBUTARY A								
A	1,145[3]	91	92	5.1	894.5	894.5	895.0	0.5
B	1,221[3]	212	1,140	0.4	894.7	894.7	895.5	0.8
C	1,771[3]	40	204	2.3	903.6	903.6	904.3	0.7
D	2,420[3]	85	707	1.4	921.1	921.1	921.7	0.6
E	3,205[3]	11	49	9.4	928.3	928.3	928.6	0.3
F	3,836[3]	14	60	7.7	941.8	941.8	942.8	1.0

[2]Feet above confluence with Anneewakee Creek

[3]Feet above confluence with Farm Branch

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

FARM BRANCH - FARM BRANCH TRIBUTARY A

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
GORDON CREEK								
A	3,903[1]	437	4,634	0.8	897.5	897.5	897.5	0.0
GOTHARDS CREEK								
A	14,258[2]	309	3,064	1.8	909.0	909.0	909.7	0.7
B	18,077[2]	337	2,476	2.2	912.0	912.0	912.6	0.6
C	31,867[2]	196	1,886	2.3	926.7	926.7	927.6	0.9
D	33,983[2]	180	1,694	2.5	927.6	927.6	928.6	1.0
E	37,765[2]	439	3,420	1.3	930.9	930.9	931.9	1.0
F	40,087[2]	443	2,392	1.8	931.5	931.5	932.5	1.0
G	43,180[2]	428	3,550	1.2	939.3	939.3	940.2	0.9
H	46,300[2]	394	2,794	1.3	945.3	945.3	946.3	1.0
I	47,585[2]	402	1,820	1.9	946.3	946.3	947.3	1.0
J	50,717[2]	146	963	1.5	956.0	956.0	956.1	0.1

[1]Feet above confluence with Hurricane Creek

[2]Feet above confluence with Sweetwater Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

GORDON CREEK – GOTHARDS CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
GOTHARDS CREEK (CONTINUED)								
K	52,979[1]	172	632	2.0	959.5	959.5	960.2	0.7
L	54,781[1]	404	1,538	0.1	967.6	967.6	967.8	0.2
M	57,683[1]	334	1,361	0.6	979.5	979.5	980.1	0.6
N	59,922[1]	78	261	2.5	986.1	986.1	986.8	0.7
O	60,620[1]	81	286	2.3	990.2	990.2	990.8	0.6
P	62,305[1]	195	493	1.5	998.6	998.6	998.6	0.0
Q	64,174[1]	56	158	3.5	1,014.0	1,014.0	1,015.0	1.0
R	64,767[1]	200	790	0.5	1,025.7	1,025.7	1,026.0	0.3
S	65,421[1]	26	37	5.8	1,026.2	1,026.2	1,026.3	0.1
GOTHARDS CREEK TRIBUTARY 1								
A	893[2]	37	110	3.4	906.7	906.7	907.7	1.0
GOTHARDS CREEK TRIBUTARY 2								
A	771[2]	13	23	3.3	911.0	911.0	911.0	0.0
B	1,206[2]	11	17	4.4	920.8	920.8	921.1	0.3
C	1,475[2]	21	29	2.7	946.1	946.1	946.4	0.3
D	2,794[2]	191	707	0.7	965.8	965.8	965.8	0.0
E	3,499[2]	103	296	1.2	977.1	977.1	977.6	0.5

[1]Feet above confluence with Sweetwater Creek

[2]Feet above confluence with Gothards Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

GOTHARDS CREEK– GOTHARDS CREEK TRIBUTARY 1–GOTHARDS CREEK TRIBUTARY 2

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
GOTHARDS CREEK TRIBUTARY 2.1								
A	294 [1]	150	671	0.2	906.7	906.7	906.9	0.2
B	732 [1]	15	17	6.0	914.4	914.4	914.5	0.0
C	963 [1]	13	25	4.0	922.6	922.6	922.9	0.3
GOTHARDS CREEK TRIBUTARY 3								
A	661 [1]	137	285	3.4	908.9 [3]	908.9	909.9	1.0
B	1,591 [1]	66	259	2.8	915.8	915.8	916.8	1.0
C	2,466 [1]	19	91	5.9	927.3	927.3	928.1	0.8
D	2,846 [1]	11	22	8.0	968.7	968.7	968.8	0.1
E	3,367 [1]	14	41	4.3	980.0	980.0	980.8	0.8
F	3,795 [1]	9	20	8.4	1,021.0	1,021.0	1,021.5	0.5
G	4,566 [1]	57	229	0.7	1,051.8	1,051.8	1,052.0	0.2
H	5,084 [1]	146	677	0.3	1,072.6	1,072.6	1,072.6	0.0
I	5,596 [1]	42	31	4.8	1,082.8	1,082.8	1,082.8	0.0
J	5,967 [1]	49	44	4.7	1,083.4	1,083.4	1,083.5	0.1
GOTHARDS CREEK TRIBUTARY 3.1								
A	530 [2]	13	26	7.7	932.0	932.0	932.2	0.2
B	716 [2]	12	26	7.8	963.9	963.9	963.9	0.0
C	1,214 [2]	16	39	6.9	985.5	985.5	985.7	0.2

[1]Feet above confluence with Gothards Creek

[2]Feet above confluence with Gothards Creek Tributary 3

[3]Elevation computed without consideration of backwater effects from Gothards Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

GOTHARDS CREEK TRIBUTARY 2.1–GOTHARDS CREEK TRIBUTARY 3–GOTHARDS CREEK TRIBUTARY 3.1

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
GOTHARDS CREEK TRIBUTARY 3.1 (CONTINUED)								
D	1,727[1]	193	1,005	0.3	1,015.4	1,015.4	1,015.5	0.1
E	2,350[1]	10	28	9.4	1,020.7	1,020.7	1,020.8	0.1
F	2,894[1]	75	846	0.4	1,043.2	1,043.2	1,043.3	0.1
G	3,566[1]	21	44	8.0	1,047.0	1,047.0	1,047.6	0.6
GOTHARDS CREEK TRIBUTARY 3.2								
A	233[1]	21	81	5.6	935.5	935.5	936.5	1.0
B	607[1]	19	72	6.3	941.1	941.1	942.1	1.0
GOTHARDS CREEK TRIBUTARY 4								
A	4,217[2]	19	83	5.9	936.5	936.5	937.3	0.8
B	4,982[2]	12	48	7.2	946.6	946.6	947.5	0.9

[1] Feet above confluence with Gothards Creek Tributary 3

[2] Feet above confluence with Gothards Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

GOTHARDS CREEK TRIBUTARY 3.1–GOTHARDS CREEK TRIBUTARY 3.2–GOTHARDS CREEK TRIUBTARY 4

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
GOTHARDS CREEK TRIBUTARY 4.1								
A	2,863[1]	18	65	6.9	957.2	957.2	957.9	0.7
GOTHARDS CREEK TRIBUTARY 4.1.1								
A	644[2]	45	120	3.2	936.7	936.7	937.7	1.0
B	1,918[2]	17	43	8.0	966.4	966.4	966.6	0.2
GOTHARDS CREEK TRIBUTARY 6								
A	976[3]	52	167	2.4	928.2	928.2	929.2	1.0
B	1,846[3]	58	432	0.9	940.6	940.6	941.6	1.0
GOTHARDS CREEK TRIBUTARY 8								
A	3,142[3]	88	317	4.1	950.7	950.7	951.7	1.0
B	5,413[3]	94	181	7.1	964.8	964.8	965.8	1.0
C	5,723[3]	107	444	2.9	969.2	969.2	970.2	1.0
D	7,150[3]	25	141	5.5	981.2	981.2	981.4	0.2
E	7,684[3]	22	118	6.5	985.0	985.0	985.6	0.6

[1] Feet above confluence with Gothards Creek Tributary 4

[2] Feet above confluence with Gothards Creek Tributary 4.1

[3] Feet above confluence with Gothards Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

GOTHARDS CREEK TRIBUTARY 4.1–GOTHARDS CREEK TRIBUTARY 4.1.1–GOTHARDS CREEK TRIUBTARY 6 – GOTHARDS CREEK TRIBUTARY 8

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
GOTHARDS CREEK TRIBUTARY 8 (CONTINUED)								
F	9,339[1]	36	154	5.0	1,008.4	1,008.4	1,009.2	0.8
G	10,744[1]	17	36	5.5	1,034.9	1,034.9	1,035.2	0.3
H	11,173[1]	13	33	6.1	1,073.2	1,073.2	1,074.0	0.8
GOTHARDS CREEK TRIBUTARY 8.1								
A	356[2]	44	71	7.1	976.6	976.6	976.8	0.2
B	1,202[2]	383	1,381	0.4	998.6	998.6	999.6	1.0
C	2,557[2]	25	63	7.6	1,006.0	1,006.0	1,006.8	0.8
GOTHARDS CREEK TRIBUTARY 9								
A	933[1]	90	366	2.0	946.8	946.8	947.7	0.9
B	2,116[1]	50	136	4.4	958.0	958.0	958.8	0.8
GOTHARDS CREEK TRIBUTARY 10								
A	1,396[1]	52	111	3.8	949.3	949.3	950.0	0.7
B	2,616[1]	163	638	0.7	961.9	961.9	961.9	0.0
C	3,272[1]	35	326	1.3	969.9	969.9	970.7	0.8

[1] Feet above confluence with Gothards Creek

[2] Feet above confluence with Gothards Creek Tributary 8

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

GOTHARDS CREEK TRIBUTARY 8–GOTHARDS CREEK TRIBUTARY 8.1–GOTHARDS CREEK TRIUBTARY 9–GOTHARDS CREEK TRIUBTARY 10

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
GOTHARDS CREEK TRIBUTARY 11								
A	1,844[1]	261	1,155	2.4	954.4	954.4	955.3	0.9
B	5,039[1]	102	709	3.9	968.1	968.1	969.0	0.9
C	7,600[1]	185	1,203	2.3	972.7	972.7	973.6	0.9
D	9,848[1]	76	629	4.3	982.2	982.2	983.1	0.9
E	11,539[1]	102	624	3.6	986.0	986.0	987.0	1.0
F	12,823[1]	87	423	5.3	990.7	990.7	991.7	1.0
G	14,390[1]	101	420	5.1	996.8	996.8	997.4	0.6
H	15,503[1]	108	691	3.1	1,004.5	1,004.5	1,005.4	0.7
I	16,732[1]	65	188	5.9	1,007.7	1,007.7	1,008.1	0.4
J	18,525[1]	73	331	3.4	1,019.8	1,019.8	1,020.8	1.0
K	20,612[1]	20	72	6.7	1,038.2	1,038.2	1,039.0	0.8
L	21,625[1]	19	92	5.2	1,054.9	1,054.9	1,055.9	1.0
GOTHARDS CREEK TRIBUTARY 11.1								
A	509[2]	29	100	5.0	972.6	972.6	973.6	1.0
B	1,034[2]	26	120	4.1	980.3	980.3	981.2	0.9

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

GOTHARDS CREEK TRIBUTARY 11–GOTHARDS CREEK TRIBUTARY 11.1

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
GOTHARDS CREEK TRIBUTARY 11.2								
A	979[1]	29	110	6.0	991.8	991.8	992.1	0.3
B	2,475[1]	18	65	10.1	1,016.0	1,016.0	1,016.2	0.2
C	2,861[1]	145	790	0.8	1,042.6	1,042.6	1,043.5	0.9
D	4,405[1]	15	52	10.7	1,068.4	1,068.4	1,068.5	0.1
GOTHARDS CREEK TRIBUTARY 11.3								
A	810[1]	91	356	3.4	1,010.6	1,010.6	1,011.6	1.0
B	1,629[1]	30	137	5.3	1,020.0	1,020.0	1,020.7	0.7
C	1,934[1]	30	155	4.7	1,026.7	1,026.7	1,027.7	1.0
D	2,467[1]	195	1,251	0.6	1,041.7	1,041.7	1,042.5	0.8
GOTHARDS CREEK TRIBUTARY 12								
A	952[2]	41	117	5.5	968.3	968.3	968.8	0.5
B	1,805[2]	35	133	4.8	976.9	976.9	977.9	1.0
C	2,822[2]	41	131	3.6	991.3	991.3	992.3	1.0
GOTHARDS CREEK TRIBUTARY 15								
A	1,138[2]	57	112	3.6	986.0	986.0	986.3	0.3
B	2,031[2]	44	196	1.7	1,001.1	1,001.1	1,002.1	1.0

[1] Feet above confluence with Gothards Creek Tributary 11

[2] Feet above confluence with Gothards Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

GOTHARDS CREEK TRIBUTARY 11.2–GOTHARDS CREEK TRIBUTARY 11.3 – GOTHARDS CREEK TRIBUTARY 12–GOTHARDS CREEK TRIBUTARY 15

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
HICKORY CREEK								
A	1,111[1]	108	834	6.0	927.7	927.7	928.3	0.6
B	2,308[1]	66	610	8.9	930.3	930.3	930.7	0.4
C	4,392[1]	164	880	7.0	938.8	938.8	939.3	0.5
D	5,716[1]	171	1,421	1.8	944.6	944.6	945.6	1.0
E	7,720[1]	125	646	6.5	951.5	951.5	952.4	0.9
F	8,913[1]	43	296	7.6	956.5	956.5	957.0	0.5
G	10,466[1]	32	189	10.0	962.7	962.7	963.5	0.8
H	12,388[1]	34	227	7.4	973.3	973.3	974.3	1.0
I	13,939[1]	50	314	4.6	982.6	982.6	983.0	0.4
J	15,795[1]	36	154	9.2	992.6	992.6	993.4	0.8
K	17,150[1]	158	543	1.8	1,007.0	1,007.0	1,007.0	0.0
L	18,123[1]	46	74	8.0	1,019.4	1,019.4	1,019.4	0.0
M	19,170[1]	22	45	8.6	1,033.7	1,033.7	1,033.7	0.0
HICKORY CREEK TRIBUTARY A								
A	546[2]	57	70	9.8	972.1	972.1	972.8	0.7
B	1,518[2]	11	37	10.7	986.0	986.0	986.2	0.2
HICKORY CREK TRIBUTARY B								
A	796[2]	42	42	7.2	970.2	970.2	970.2	0.0
B	1,766[2]	26	60	3.7	990.1	990.1	990.2	0.1

[1]Feet above confluence with Beaver Creek

[2]Feet above confluence with Hickory Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

HICKORY CREEK – HICKORY CREEK TRIBUTARY A – HICKORY CREEK TRIBUTARY B

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
HICKORY CREEK TRIBUTARY B (CONTINUED)								
C	2,552	12	26	8.3	1,010.6	1,010.6	1,010.6	0.0
D	3,107	12	25	8.6	1,028.5	1,028.5	1,028.5	0.0
HICKORY CREEK TRIBUTARY C								
A	732	65	76	7.8	987.3	987.3	987.3	0.0
B	2,158	22	62	6.5	1,003.0	1,003.0	1,003.0	0.0
C	2,962	17	58	6.9	1,016.7	1,016.7	1,016.9	0.2
D	4,000	137	560	0.7	1,036.4	1,036.4	1,037.2	0.8
HICKORY CREEK TRIBUTARY D								
A	406	91	303	8.1	1,004.4	1,004.4	1,005.2	0.8
B	981	61	551	2.7	1,020.8	1,020.8	1,021.7	0.9
C	1,628	325	2,954	0.2	1,041.5	1,041.5	1,041.5	0.0
HICKORY CREEK TRIBUTARY E								
A	891	11	28	6.5	1,016.5	1,016.5	1,016.6	0.1
B	1,656	16	25	8.1	1,036.1	1,036.1	1,036.1	0.0
C	2,465	17	26	7.1	1,056.2	1,056.2	1,056.2	0.0

[1]Feet above confluence with Hickory Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

HICKORY CREEK TRIBUTARY B– HICKORY CREEK TRIBUTARY C –HICKORYCREEK TRIBUTARY D – HICKORY CREEK TRIBUTARY E

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
HUEY CREEK								
A	3,247 [1]	219	1,043	2.8	932.8	932.8	933.8	1.0
B	5,071 [1]	82	455	3.9	942.5	942.5	943.0	0.5
C	6,026 [1]	106	497	3.5	947.4	947.4	948.4	1.0
D	7,485 [1]	104	380	4.6	955.7	955.7	956.7	1.0
E	8,384 [1]	101	426	3.6	962.6	962.6	963.2	0.6
F	10,571 [1]	50	194	5.5	978.3	978.3	979.2	0.9
G	11,160 [1]	52	246	4.3	983.4	983.4	984.4	1.0
H	12,268 [1]	78	544	1.7	997.1	997.1	998.1	1.0
I	13,111 [1]	36	133	4.9	1,008.9	1,008.9	1,009.8	0.9
J	14,415 [1]	19	66	7.5	1,026.5	1,026.5	1,027.3	0.8
K	15,529 [1]	10	32	6.7	1,049.4	1,049.4	1,050.0	0.6
L	16,211 [1]	13	45	4.7	1,075.2	1,075.2	1,075.9	0.7
HUEY CREEK TRIBUTARY 1								
A	460 [2]	24	152	10.3	940.2	940.2	941.2	1.0
B	955 [2]	44	251	6.3	956.2	956.2	957.1	0.9
C	4,041 [2]	158	436	3.6	978.4	978.4	979.4	1.0
D	6,145 [2]	108	340	4.6	999.5	999.5	1,000.5	1.0
E	7,146 [2]	54	180	6.0	1,012.1	1,012.1	1,012.4	0.3
F	9,399 [2]	36	164	6.6	1,053.1	1,053.1	1,053.7	0.6
G	10,136 [2]	21	55	7.6	1,062.3	1,062.3	1,062.7	0.4

[1]Feet above confluence with Gothards Creek

[2]Feet above confluence with Huey Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

HUEY CREEK– HUEY CREEK TRIBUTARY 1

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
HUEY CREEK TRIBUARY 1.1								
A	469 [1]	15	49	10.3	1,031.2	1,031.2	1,031.7	0.5
B	1,032 [1]	32	105	4.8	1,052.1	1,052.1	1,053.1	1.0
HUEY CREEK TRIBUTARY 2								
A	808 [2]	26	50	4.0	1,013.0	1,013.0	1,013.9	0.9
HUEY CREEK TRIBUTARY 3								
A	333 [2]	20	39	6.8	988.2	988.2	988.6	0.4
B	655 [2]	40	109	4.3	1,017.6	1,017.6	1,018.6	1.0
C	1,154 [2]	30	95	5.0	1,025.5	1,025.5	1,026.5	1.0
D	1,560 [2]	20	58	5.1	1,034.7	1,034.7	1,035.7	1.0
HURRICANE CREEK								
A	1,117 [3]	180	1,365	6.1	730.3	730.3	731.0	0.7
B	4,786 [3]	415	2,090	3.7	740.2	740.2	741.1	0.9
C	6,489 [3]	535	2,350	3.3	746.8	746.8	747.5	0.7
D	8,023 [3]	46	484	15.0	752.7	752.7	752.8	0.1
E	9,123 [3]	47	655	11.0	769.2	769.2	769.9	0.7
F	10,208 [3]	45	617	11.6	779.3	779.3	779.5	0.2

[1]Feet above confluence with Huey Creek Tributary 1

[2]Feet above confluence with Huey Creek

[3]Feet above confluence with county boundary

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

HUEY CREEK TRIBUTARY 1.1– HUEY CREEK TRIBUTARY 2 – HUEY CREEK TRIBUTARY 2.1– HURRICANE CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
HURRICANE CREEK (CONTINUED)								
G	11,202	93	669	10.4	803.3	803.3	804.0	0.7
H	11,854	63	452	15.0	848.0	848.0	848.0	0.0
I	12,626	74	557	8.3	881.3	881.3	881.3	0.0
J	13,836	58	391	11.8	892.3	892.3	892.8	0.5
K	14,997	194	1,057	4.3	908.1	908.1	909.1	1.0
L	15,999	220	1,693	2.7	914.5	914.5	915.3	0.8
M	17,892	106	488	9.5	929.4	929.4	929.4	0.0
N	18,812	249	1,219	3.7	942.1	942.1	942.1	0.0
O	20,783	280	1,872	2.4	953.5	953.5	954.4	0.9
P	23,000	175	1,031	4.3	963.9	963.9	964.8	0.9
Q	24,797	185	1,353	2.5	975.7	975.7	976.4	0.7
R	26,924	129	523	6.0	988.0	988.0	989.0	1.0
S	28,495	40	214	9.5	997.1	997.1	997.4	0.3
T	30,429	125	290	6.1	1,013.1	1,013.1	1,013.7	0.6
U	31,441	20	118	11.3	1,022.7	1,022.7	1,023.0	0.3
V	32,622	170	313	4.2	1,037.1	1,037.1	1,037.2	0.1
W	33,471	35	85	7.1	1,047.1	1,047.1	1,047.3	0.2
X	34,266	95	156	3.8	1,058.8	1,058.8	1,058.9	0.1
Y	35,061	120	116	3.1	1,073.2	1,073.2	1,073.3	0.1
Z	36,223	21	47	7.8	1,119.6	1,119.6	1,119.6	0.0

[1]Feet above county boundary

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

HURRICANE CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
HURRICANE CREEK (CONTINUED)								
AA	36,779 [1]	22	44	8.2	1,136.1	1,136.1	1,136.1	0.0
AB	37,800 [1]	29	31	5.6	1,161.2	1,161.2	1,161.2	0.0
AC	38,605 [1]	14	24	7.3	1,176.6	1,176.6	1,176.6	0.0
HURRICANE CREEK TRIBUTARY A								
A	891 [2]	20	66	8.9	755.9	755.9	756.3	0.4
B	1,668 [2]	14	55	10.7	770.2	770.2	770.4	0.2
C	2,256 [2]	20	66	9.0	779.6	779.6	779.6	0.0
D	3,080 [2]	80	125	4.8	791.5	791.5	791.5	0.0
HURRICANE CREEK TRIBUTARY B								
A	223 [2]	30	63	8.9	789.2	789.2	789.2	0.0
B	723 [2]	27	67	8.3	807.8	807.8	807.8	0.0
C	1,075 [2]	68	115	4.8	819.9	819.9	820.0	0.1

[1]Feet above county boundary

[2]Feet above confluence with Hurricane Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

HURRICANE CREEK–HURRICANE CREEK TRIBUTARY A–HURRICANE CREEK TRIBUTARY B

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
HURRICANE CREEK TRIBUTARY C								
A	452	95	150	4.1	943.6	943.6	943.6	0.0
B	1,241	37	63	7.1	959.1	959.1	959.2	0.1
HURRICANE CREEK TRIBUTARY D								
A	507	51	101	6.1	963.3	963.3	963.3	0.0
B	1,491	127	137	4.5	979.5	979.5	979.6	0.1
C	2,441	70	115	3.7	1,002.5	1,002.5	1,002.5	0.0
HURRICANE CREEK TRIBUTARY E								
A	376	36	42	5.6	975.3	975.3	975.3	0.0
B	691	95	437	0.5	985.9	985.9	985.9	0.0
C	1,525	6	21	11.1	1,001.8	1,001.8	1,002.1	0.3
D	2,105	11	27	8.9	1,012.6	1,012.6	1,012.6	0.0

[1]Feet above confluence with Hurricane Creek

[2]Elevation computed without consideration of backwater effects from Hurricane Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

HURRICANE CREEK TRIBUTARY C–HURRICANE CREEK TRIBUTARY D –HURRICANE CREEK TRIBUTARY E

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
KNOLLWOOD BRANCH								
A	99	174	406	5.9	973.2	973.2	973.2	0.0
B	364	78	313	7.6	978.3	978.3	978.6	0.3
C	460	143	1,328	1.8	986.0	986.0	986.4	0.4
D	977	55	211	11.3	987.8	987.8	987.8	0.0
E	1,096	55	822	2.9	1,003.5	1,003.5	1,003.9	0.4
F	1,488	83	486	4.9	1,003.6	1,003.6	1,004.0	0.4
G	1,763	99	327	7.3	1,007.3	1,007.3	1,007.3	0.0
H	2,121	74	263	9.0	1,011.3	1,011.3	1,011.3	0.0
I	2,819	206	916	2.6	1,023.7	1,023.7	1,024.5	0.8
J	3,231	177	422	5.6	1,027.1	1,027.1	1,027.2	0.1
K	3,570	56	259	9.2	1,038.9	1,038.9	1,039.1	0.2
L	3,888	50	293	8.1	1,043.2	1,043.2	1,043.4	0.2
M	4,465	69	249	9.6	1,056.8	1,056.8	1,056.8	0.0
N	5,151	235	559	2.3	1,070.1	1,070.1	1,070.1	0.0
O	5,247	231	1,077	1.6	1,078.1	1,078.1	1,078.1	0.0
P	6,604	110	259	5.0	1,083.3	1,083.3	1,083.7	0.4
Q	7,665	49	142	9.0	1,094.0	1,094.0	1,094.4	0.4
R	7,734	280	595	2.2	1,096.8	1,096.8	1,096.8	0.0
S	8,128	161	261	4.9	1,100.4	1,100.4	1,100.4	0.0
T	8,197	166	619	2.1	1,104.1	1,104.1	1,104.2	0.1
U	8,532	136	208	6.2	1,105.0	1,105.0	1,105.0	0.0

[1]Feet above confluence with Anneewakee Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

KNOLLWOOD BRANCH

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
KNOLLWOOD BRANCH (CONTINUED)								
V	8,680[1]	137	198	3.4	1,108.0	1,108.0	1,108.0	0.0
W	9,598[1]	41	79	8.4	1,125.0	1,125.0	1,125.1	0.1
X	9,666[1]	41	246	2.7	1,130.0	1,130.0	1,131.0	1.0
Y	10,144[1]	26	66	10.1	1,136.7	1,136.7	1,136.8	0.1
Z	10,299[1]	244	991	0.7	1,142.8	1,142.8	1,143.7	0.9
AA	10,525[1]	194	703	0.9	1,142.9	1,142.9	1,143.8	0.9
KNOLLWOOD BRANCH TRIBUTARY A								
A	114[2]	84	129	5.1	1,107.6	1,107.6	1,107.6	0.0
B	804[2]	125	191	3.5	1,122.7	1,122.7	1,122.7	0.0
C	1,305[2]	96	278	2.4	1,132.6	1,132.6	1,132.6	0.0
D	1,391[2]	144	414	1.6	1,136.8	1,136.8	1,136.9	0.1
E	1,553[2]	95	259	2.6	1,137.1	1,137.1	1,137.2	0.1

[1]Feet above confluence with Anneewakee Creek

[2]Feet above confluence with Knollwood Branch

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

KNOLLWOOD BRANCH- KNOLLWOOD BRANCH TRIBUTARY A

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
KRAFT CREEK								
A	124[1]	26	68	9.2	1,018.9	1,018.9	1,018.9	0.0
B	518[1]	25	88	7.1	1,029.1	1,029.1	1,029.8	0.7
C	785[1]	11	28	9.4	1,035.2	1,035.2	1,035.3	0.1
KRAFT CREEK TRIBUTARY A								
A	369[2]	37	52	7.1	1,037.3	1,037.3	1,037.4	0.1
B	961[2]	11	35	10.6	1,057.3	1,057.3	1,057.4	0.1
LION BRANCH								
A	1,765[3]	125	715	3.2	903.9	903.9	904.1	0.2
B	3,168[3]	165	432	5.3	909.7	909.7	910.0	0.3
C	5,072[3]	95	425	4.6	921.7	921.7	922.1	0.4
D	6,544[3]	195	1,238	1.6	932.0	932.0	932.6	0.6
E	7,555[3]	270	1,640	1.1	944.1	944.1	944.1	0.0
F	9,416[3]	100	730	1.8	950.6	950.6	951.4	0.8
G	10,512[3]	496	4,691	0.3	962.2	962.2	962.2	0.0
H	12,410[3]	135	433	2.8	970.3	970.3	971.0	0.7
I	13,791[3]	90	778	1.5	986.7	986.7	987.2	0.5

[1]Feet above confluence with Hurricane Creek

[2]Feet above confluence with Kraft Creek

[3]Feet above confluence with Beaver Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

KRAFT CREEK – KRAFT CREEK TRIBUTARY A – LION BRANCH

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LION BRANCH (CONTINUED)								
J	15,011[1]	130	402	3.0	994.6	994.6	995.4	0.8
K	16,497[1]	15	56	9.7	1,022.6	1,022.6	1,023.6	1.0
L	17,756[1]	100	161	5.2	1,045.1	1,045.1	1,045.1	0.0
M	18,355[1]	90	674	1.3	1,059.7	1,059.7	1,060.5	0.8
LION BRANCH TRIBUTARY A								
A	673[2]	27	98	2.3	935.8	935.8	935.8	0.0
B	1,182[2]	46	42	5.5	946.4	946.4	946.4	0.0
C	1,934[2]	20	32	7.2	957.5	957.5	957.5	0.0
D	2,412[2]	22	54	4.3	976.1	976.1	976.1	0.0
E	2,805[2]	9	55	4.2	986.1	986.1	986.1	0.0
LION BRANCH TRIBUTARY B								
A	578[2]	73	285	4.5	965.2	965.2	966.0	0.8
B	1,490[2]	14	64	3.8	978.0	978.0	978.9	0.9
C	2,112[2]	39	166	1.5	986.6	986.6	987.4	0.8

[1]Feet above confluence with Beaver Creek

[2]Feet above confluence with Lion Branch

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

LION BRANCH – LION BRANCH TRIBUTARY A – LION BRANCH TRIBUTARY B

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LITTLE ANNEEWAKEE CREEK								
A	1,016	600	5,858	1.1	902.8	902.8	902.8	0.0
B	2,231	430	2,867	2.4	903.4	903.4	903.4	0.0
C	2,972	465	2,792	2.4	904.9	904.9	904.9	0.0
D	3,345	386	2,043	3.0	905.2	905.2	905.2	0.0
E	4,493	234	1,295	4.8	909.3	909.3	910.2	0.9
F	4,726	147	819	7.5	909.7	909.7	909.8	0.1
G	5,952	90	636	9.7	915.6	915.6	915.9	0.3
H	6,726	174	936	6.6	922.8	922.8	922.9	0.1
I	7,517	160	807	7.6	924.3	924.3	924.4	0.1
J	7,725	100	666	9.6	925.6	925.6	926.0	0.4
K	8,461	80	791	8.1	929.4	929.4	929.7	0.3
L	9,316	271	1,143	5.6	932.2	932.2	932.2	0.0
M	10,284	146	994	6.4	938.7	938.7	939.0	0.3
N	10,641	196	1,059	6.0	940.2	940.2	940.4	0.2
O	10,798	80	543	4.3	943.6	943.6	943.8	0.2
P	10,863	80	1,008	2.3	947.6	947.6	948.3	0.7
Q	11,602	130	1,165	2.0	947.7	947.7	948.6	0.9
R	11,880	136	1,080	1.9	947.8	947.8	948.6	0.8
S	12,417	47	176	11.9	951.5	951.5	951.5	0.0
T	12,594	83	229	7.2	969.3	969.3	969.3	0.0

[1]Feet above confluence with Anneewakee Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

LITTLE ANNEEWAKEE CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LITTLE ANNEEWAKEE CREEK (CONTINUED)								
U	13,003	26	162	10.1	977.1	977.1	978.0	0.9
V	13,858	175	459	3.6	995.1	995.1	996.1	1.0
W	14,114	69	179	9.2	1,014.9	1,014.9	1,014.9	0.0
X	14,169	592	3,558	0.5	1,015.1	1,015.1	1,015.1	0.0
Y	14,386	450	2,694	0.6	1,015.1	1,015.1	1,015.1	0.0
Z	14,700	294	1,741	0.9	1,015.1	1,015.1	1,015.1	0.0
AA	15,176	404	2,417	0.7	1,015.1	1,015.1	1,015.1	0.0
AB	15,579	530	3,121	0.5	1,015.1	1,015.1	1,015.1	0.0
AC	16,022	261	1,482	1.1	1,015.1	1,015.1	1,015.1	0.0
AD	16,752	50	158	10.4	1,015.3	1,015.3	1,015.3	0.0
AE	16,834	80	662	2.5	1,024.0	1,024.0	1,024.5	0.5
AF	16,919	110	756	2.2	1,024.0	1,024.0	1,024.5	0.5
AG	17,099	110	989	1.7	1,029.4	1,029.4	1,029.6	0.2
AH	17,392	130	1,084	0.7	1,029.5	1,029.5	1,029.8	0.3
AI	17,431	130	998	0.7	1,029.5	1,029.5	1,029.8	0.3
AJ	17,746	51	322	2.3	1,029.5	1,029.5	1,029.8	0.3
AK	18,088	130	795	2.2	1,035.7	1,035.7	1,035.7	0.0
AL	18,978	16	51	9.4	1,039.9	1,039.9	1,040.0	0.1
AM	19,138	128	713	1.8	1,048.8	1,048.8	1,048.8	0.0
AN	19,703	49	84	7.9	1,050.3	1,050.3	1,050.3	0.0
AO	19,819	50	302	2.0	1,057.1	1,057.1	1,057.5	0.4

[1]Feet above confluence with Anneewakee Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

LITTLE ANNEEWAKEE CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LITTLE ANNEEWAKEE CREEK (CONTINUED)								
AP	20,210[1]	43	87	7.0	1,058.0	1,058.0	1,058.0	0.0
LITTLE ANNEEWAKEE CREEK TRIBUTARY A								
A	78[2]	460[3]	1,574	0.8	905.2	905.2	905.2	0.0
B	1,191[2]	29	98	12.0	921.7	921.7	921.7	0.0
C	1,842[2]	587	408	4.7	966.4	966.4	966.4	0.0
D	1,892[2]	572	5,832	0.3	966.4	966.4	966.4	0.0
E	3,074[2]	305	3,087	0.6	966.4	966.4	966.4	0.0
F	3,416[2]	54	179	10.7	966.4	966.4	966.4	0.0
G	3,536[2]	100	630	3.0	975.3	975.3	975.3	0.0
H	4,277[2]	44	174	11.0	978.0	978.0	978.1	0.1
I	4,367[2]	55	419	4.7	984.1	984.1	984.9	0.8
J	4,760[2]	32	150	12.8	987.3	987.3	987.3	0.0
K	4,853[2]	100	485	4.0	994.0	994.0	994.0	0.0
L	5,380[2]	107	257	7.5	1,005.5	1,005.5	1,005.6	0.1
M	5,516[2]	102	542	3.5	1,010.4	1,010.4	1,010.6	0.2
N	6,409[2]	20	139	13.8	1,027.0	1,027.0	1,027.7	0.7
O	7,062[2]	20	161	11.9	1,042.6	1,042.6	1,043.4	0.8

[1]Feet above confluence with Anneewakee Creek

[2]Feet above confluence with Little Anneewakee Creek

[3]Combined floodway width with Little Anneewakee Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

LITTLE ANNEEWAKEE CREEK - LITTLE ANNEEWAKEE CREEK TRIBUTARY A

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LITTLE ANNEEWAKEE CREEK TRIBUTARY B								
A	87	20	205	2.9	910.8	910.8	911.3	0.5
B	685	63	98	6.0	931.1	931.1	931.1	0.0
C	1,294	38	73	8.1	943.9	943.9	943.9	0.0
D	1,398	78	424	2.0	954.5	954.5	954.5	0.0
E	2,287	72	105	5.5	967.2	967.2	967.2	0.0
LITTLE ANNEEWAKEE CREEK TRIBUTARY C								
A	133	285[2]	1,170	0.6	926.6	926.6	927.5	0.9
B	1,224	12	61	11.4	939.3	939.3	939.9	0.6
C	1,909	12	70	9.9	954.6	954.6	955.5	0.9

[1]Feet above confluence with Little Anneewakee Creek

[2]Combined floodway width with Little Anneewakee Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

LITTLE ANNEEWAKEE CREEK TRIBUTARY B – LITTLE ANNEEWAKEE CREEK TRIBUTARY C

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LITTLE ANNEEWAKEE CREEK TRIBUTARY D								
A	70	276	2,268	0.4	947.8	947.8	948.7	0.9
B	334	90	409	2.1	947.8	947.8	948.7	0.9
C	367	90	394	2.2	949.0	949.0	949.4	0.4
D	625	14	69	12.6	952.4	952.4	952.4	0.0
E	696	100	613	1.4	960.4	960.4	960.6	0.2
F	1,065	17	104	8.3	960.4	960.4	960.6	0.2
G	1,125	50	217	4.0	963.2	963.2	964.0	0.8
H	1,623	30	157	5.5	966.7	966.7	967.6	0.9
I	2,407	30	91	9.7	989.6	989.6	989.6	0.0
J	2,537	30	390	2.2	1,003.0	1,003.0	1,004.0	1.0
K	2,775	27	277	3.2	1,003.0	1,003.0	1,004.0	1.0
LITTLE ANNEEWAKEE CREEK TRIBUTARY E								
A	153	39	77	7.7	974.1	974.1	974.1	0.0
B	1,226	44	78	7.6	1,026.8	1,026.8	1,026.8	0.0
C	2,016	10	67	8.8	1,039.9	1,039.9	1,040.3	0.4

[1]Feet above confluence with Little Anneewakee Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

LITTLE ANNEEWAKEE CREEK TRIBUTARY D – LITTLE ANNEEWAKEE CREEK TRIBUTARY E

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LITTLE BEAR CREEK								
A	916	310	1,223	4.5	756.4	754.1[2]	755.0[2]	0.9
B	1,714	339	2,036	2.7	757.7	757.7	758.0	0.3
C	2,535	313	1,753	3.2	759.6	759.6	760.1	0.5
D	3,345	372	2,230	2.5	761.5	761.5	762.2	0.7
E	4,095	272	1,494	3.7	762.2	762.2	763.1	0.9
F	4,524	350	1,810	2.1	763.5	763.5	764.3	0.8
G	5,294	350	1,551	2.4	764.9	764.9	765.3	0.4
H	6,193	254	1,192	3.1	767.5	767.5	768.4	0.9
I	6,986	201	961	3.9	769.9	769.9	770.4	0.5
J	7,542	282	1,250	3.0	770.8	770.8	771.7	0.9
K	7,869	84	453	8.3	771.1	771.1	771.7	0.6
L	7,935	365	1,488	2.5	773.5	773.5	774.2	0.7
M	8,358	403	1,138	3.3	773.8	773.8	774.4	0.6
N	8,374	426	1,247	3.0	773.9	773.9	774.5	0.6
O	8,805	372	1,123	3.3	774.2	774.2	774.6	0.4
P	8,821	399	1,394	2.7	775.3	775.3	775.6	0.3
Q	9,189	436	790	4.7	775.4	775.4	775.5	0.1
R	9,346	567	1,503	2.6	775.7	775.7	776.4	0.7
S	9,746	120	429	9.2	777.7	777.7	778.1	0.4
T	9,763	120	719	5.5	780.5	780.5	780.9	0.4
U	10,005	238	1,431	2.8	780.6	780.6	781.6	1.0
V	10,351	316	1,531	2.6	780.9	780.9	781.9	1.0

[1]Feet above confluence with Bear Creek

[2]Elevation computed without consideration of backwater effects from Bear Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

LITTLE BEAR CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LITTLE BEAR CREEK (CONTINUED)								
W	10,822	500	406	9.7	782.4	782.4	782.5	0.1
X	10,884	366	2,472	1.6	787.6	787.6	787.8	0.2
Y	11,622	345	1,716	2.3	787.9	787.9	788.0	0.1
Z	12,424	379	1,273	3.1	788.4	788.4	788.5	0.1
AA	13,076	362	768	5.1	789.7	789.7	789.7	0.0
AB	13,514	251	867	5.1	792.5	792.5	792.5	0.0
AC	14,289	213	1,118	4.0	796.3	796.3	796.4	0.1
AD	15,101	400	1,713	2.6	798.1	798.1	798.4	0.3
AE	15,886	353	1,534	2.9	801.0	801.0	801.2	0.2
AF	17,105	530	2,472	1.8	804.0	804.0	804.6	0.6
AG	17,487	400	1,478	3.0	805.1	805.1	805.4	0.3
AH	17,906	383	1,366	2.2	806.9	806.9	807.0	0.1
AI	18,709	280	827	3.6	809.0	809.0	809.1	0.1
AJ	19,518	278	708	4.2	812.6	812.6	812.8	0.2
AK	20,299	292	1,069	2.4	815.7	815.7	816.4	0.7
AL	20,686	286	924	2.7	816.5	816.5	817.3	0.8
AM	21,054	238	780	3.3	818.6	818.6	818.9	0.3
AN	22,032	236	900	2.9	823.7	823.7	823.7	0.0
AO	22,502	185	515	5.0	825.5	825.5	825.6	0.1
AP	22,788	200	625	2.6	827.1	827.1	827.6	0.5

[1]Feet above confluence with Bear Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

LITTLE BEAR CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LITTLE BEAR CREEK (CONTINUED)								
AQ	23,366	49	171	9.5	832.6	832.6	832.6	0.0
AR	23,997	129	299	5.4	838.9	838.9	839.1	0.2
AS	24,580	43	241	6.7	849.4	849.4	850.3	0.9
AT	24,969	79	224	7.3	858.4	858.4	858.4	0.0
AU	25,140	250	1,085	1.5	861.0	861.0	861.1	0.1
AV	25,798	124	364	4.5	865.1	865.1	865.1	0.0
AW	27,167	204	545	3.0	884.7	884.7	885.1	0.4
AX	27,268	196	2,239	0.7	894.1	894.1	895.1	1.0
AY	27,627	100	1,067	1.5	894.2	894.2	895.1	0.9
AZ	28,673	47	167	8.3	896.1	896.1	896.7	0.6
BA	28,886	303	2,913	0.5	910.7	910.7	911.5	0.8
BB	29,660	72	481	2.9	910.8	910.8	911.6	0.8
BC	30,352	50	139	10.0	913.1	913.1	913.3	0.2
BD	30,441	175	894	1.6	919.5	919.5	919.7	0.2
BE	30,822	54	218	1.1	919.7	919.7	919.9	0.2
BF	30,908	165	464	0.5	921.2	921.2	921.4	0.2
BG	31,667	13	29	8.5	937.9	937.9	937.9	0.0
BH	32,096	22	38	6.5	948.5	948.5	948.5	0.0
BI	32,969	25	40	6.1	958.5	958.5	958.6	0.1
BJ	33,458	30	63	3.9	963.3	963.3	963.3	0.0

[1]Feet above confluence with Bear Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

LITTLE BEAR CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LITTLE BEAR CREEK (CONTINUED)								
BK	34,243	20	34	7.2	978.7	978.7	978.8	0.1
BL	35,306	211	104	2.4	1,012.0	1,012.0	1,012.4	0.4
BM	35,409	386	2,578	0.1	1,012.0	1,012.0	1,012.7	0.7
BN	36,127	19	33	7.4	1,018.8	1,018.8	1,018.9	0.1

[1]Feet above confluence with Bear Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

LITTLE BEAR CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LITTLE BEAR CREEK TRIBUTARY A								
A	95	162[2]	256	4.4	775.8	775.8	776.3	0.5
B	861	32	106	10.3	782.4	782.4	782.4	0.0
C	929	41	274	4.0	787.1	787.1	787.1	0.0
D	2,004	35	130	8.4	804.6	804.6	804.7	0.1
E	2,323	34	138	4.5	807.9	807.9	808.5	0.6
F	2,826	25	72	8.5	815.1	815.1	815.1	0.0
G	2,892	30	249	2.5	821.1	821.1	821.9	0.8
H	3,446	30	78	7.9	824.3	824.3	824.3	0.0
I	3,461	30	143	4.3	826.5	826.5	827.5	1.0
J	3,927	45	89	6.9	834.0	834.0	834.5	0.5
K	3,944	52	155	4.0	835.1	835.1	836.1	1.0
L	4,600	59	111	5.5	847.8	847.8	848.3	0.5
M	5,181	38	86	7.2	868.8	868.8	868.8	0.0
N	5,205	58	164	3.8	872.0	872.0	872.0	0.0
O	5,620	12	52	11.9	879.9	879.9	879.9	0.0

[1]Feet above confluence with Little Bear Creek

[2]Combined floodway width with Little Bear Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

LITTLE BEAR CREEK TRIBUTARY A

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LITTLE BEAR CREEK TRIBUTARY B								
A	88[1]	122	136	2.8	807.1	807.1	807.1	0.0
B	375[1]	223	1,790	0.2	822.8	822.8	823.1	0.3
C	569[1]	88	703	0.5	822.8	822.8	823.1	0.3
D	697[1]	41	73	5.2	833.4	833.4	833.7	0.3
E	781[1]	225	2,410	0.2	834.1	834.1	834.7	0.6
F	1,041[1]	108	1,146	0.3	834.1	834.1	834.7	0.6
G	1,345[1]	25	54	7.0	841.3	841.3	841.4	0.1
LITTLE BEAR CREEK TRIBUTARY C								
A	60[2]	150	461	2.7	790.8	790.8	790.8	0.0
B	642[2]	20	71	10.1	800.2	800.2	800.5	0.3
C	1,205[2]	20	70	10.2	809.2	809.2	809.6	0.4
D	1,907[2]	20	74	9.6	820.4	820.4	821.0	0.6
E	2,767[2]	17	64	11.1	831.6	831.6	831.7	0.1
F	3,594[2]	16	65	11.0	852.6	852.6	853.5	0.9
G	4,393[2]	57	105	6.8	870.1	870.1	870.1	0.0
H	4,756[2]	14	60	11.8	882.3	882.3	882.3	0.0

[1]Feet above confluence with Little Bear Creek Tributary A

[2]Feet above confluence with Little Bear Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

LITTLE BEAR CREEK TRIBUTARY B - LITTLE BEAR CREEK TRIBUTARY C

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LITTLE BEAR CREEK TRIBUTARY D								
A	175	18	64	10.2	817.7	817.7	818.2	0.5
B	1,148	28	62	8.0	835.9	835.9	835.9	0.0
C	1,957	16	59	8.3	852.5	852.5	852.8	0.3
D	3,153	12	45	11.0	922.8	922.8	922.9	0.1
LITTLE BEAR CREEK TRIBUTARY E								
A	270	132	416	2.1	827.7	827.7	828.5	0.8
B	807	94	80	5.2	851.2	851.2	851.2	0.0
C	887	484	3,186	0.1	851.6	851.6	851.6	0.0
D	3,006	27	73	5.8	851.6	851.6	851.6	0.0
E	4,040	18	57	7.3	865.2	865.2	865.3	0.1
F	5,028	20	61	6.8	876.8	876.8	877.3	0.5
G	5,910	23	67	6.2	888.2	888.2	888.3	0.1
H	6,927	84	89	4.7	906.6	906.6	906.6	0.0
I	6,988	82	145	2.9	909.1	909.1	909.1	0.0
J	7,506	24	49	8.5	917.1	917.1	917.1	0.0

[1]Feet above confluence with Little Bear Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

LITTLE BEAR CREEK TRIBUTARY D - LITTLE BEAR CREEK TRIBUTARY E

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LITTLE BEAR CREEK TRIBUTARY F								
A	73[1]	234	1,410	0.5	919.7	919.7	919.9	0.2
B	869[1]	30	66	8.3	922.0	922.0	922.0	0.0
C	2,055[1]	20	95	5.8	940.7	940.7	941.1	0.4
LITTLE HURRICANE CREEK								
A	1,001[2]	27	222	16.5	882.9	882.9	882.9	0.0
B	1,787[2]	16	189	19.4	904.5	904.5	904.5	0.0
C	3,443[2]	100	728	4.8	926.2	926.2	926.5	0.3
D	4,271[2]	65	297	7.9	931.0	931.0	931.4	0.4
E	4,647[2]	34	189	12.4	942.2	942.2	942.2	0.0
F	5,191[2]	120	503	4.7	954.2	954.2	955.1	0.9
G	6,022[2]	82	899	2.5	969.0	969.0	969.0	0.0
H	7,334[2]	33	182	11.1	976.7	976.7	976.8	0.1
I	8,304[2]	274	1,428	1.4	990.5	990.5	990.5	0.0
J	10,345[2]	135	390	3.0	1,011.0	1,011.0	1,011.2	0.2
K	11,498[2]	27	94	10.6	1,019.3	1,019.3	1,019.3	0.0
L	12,565[2]	41	194	4.8	1,033.0	1,033.0	1,033.6	0.6
M	13,664[2]	35	157	2.6	1,050.3	1,050.3	1,050.3	0.0
N	14,510[2]	15	47	8.8	1,064.6	1,064.6	1,064.7	0.1

[1]Feet above confluence with Little Bear Creek

[2] Feet above confluence with Hurricane Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

LITTLE BEAR CREEK TRIBUTARY F – LITTLE HURRICANE CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
LITTLE HURRICANE CREEK TRIBUTARY A								
A	497[1]	75	1,150	1.0	942.4	942.4	943.1	0.7
B	1,578[1]	45	160	5.2	944.3	944.3	944.7	0.4
C	2,716[1]	30	121	6.9	961.9	961.9	962.8	0.9
D	3,547[1]	24	55	8.7	977.1	977.1	977.1	0.0
MARGIE BRANCH								
A	308[2]	104	239	7.5	947.4	947.4	947.4	0.0
B	1,639[2]	474	1,435	1.0	953.6	953.6	953.6	0.0
C	2,985[2]	45	173	5.5	963.8	963.8	964.1	0.3
D	4,115[2]	31	249	3.8	977.8	977.8	978.6	0.8
E	5,536[2]	252	1,816	0.6	1,002.0	1,002.0	1,002.0	0.0
F	6,918[2]	53	90	9.4	1,012.2	1,012.2	1,012.2	0.0
G	7,573[2]	32	86	10.0	1,022.1	1,022.1	1,022.1	0.0
H	8,498[2]	118	177	8.2	1,039.7	1,039.7	1,039.9	0.2
I	9,425[2]	328	1,767	0.4	1,067.7	1,067.7	1,067.7	0.0
MARGIE BRANCH TRIBUTARY A								
A	496[3]	14	25	7.8	1,033.8	1,033.8	1,033.8	0.0
B	1,042[3]	14	25	8.8	1,046.1	1,046.1	1,046.2	0.1
C	1,802[3]	8	19	9.2	1,079.0	1,079.0	1,079.1	0.1

[1]Feet above confluence with Little Hurricane Creek

[2]Feet above confluence with Beaver Creek

[3]Feet above confluence with Margie Branch

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

LITTLE HURRICANE CREEK TRIBUTARY A – MARGIE BRANCH – MARGIE BRANCH TRIBUTARY A

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
MILL CREEK								
A	1,841[1]	194	879	2.8	937.2	937.2	937.5	0.3
B	4,702[1]	223	653	3.8	946.3	946.3	946.9	0.6
C	8,035[1]	150	484	3.7	964.7	964.7	965.7	1.0
D	11,303[1]	28	98	4.3	994.1	994.1	994.4	0.3
E	12,562[1]	18	76	5.5	1,023.3	1,023.3	1,024.3	1.0
F	13,625[1]	164	2,371	0.2	1,066.7	1,066.7	1,066.8	0.1
G	14,533[1]	22	116	3.6	1,077.2	1,077.2	1,078.1	0.9
MILL CREEK TRIBUTARY 1								
A	1,417[2]	46	193	5.1	994.0	994.0	994.9	0.9
B	2,004[2]	34	196	5.0	1,025.2	1,025.2	1,026.2	1.0
C	3,070[2]	22	90	6.8	1,039.3	1,039.3	1,039.9	0.6
D	3,516[2]	26	129	4.8	1,047.7	1,047.7	1,048.5	0.8
MILLER CREEK								
A	849[3]	80	345	4.3	928.6	928.6	929.5	0.9
B	1,417[3]	74	474	2.4	936.2	936.2	936.6	0.4
C	2,846[3]	17	49	8.7	950.6	950.6	950.6	0.0
D	3,515[3]	132	400	2.7	964.6	964.6	965.3	0.7

[1]Feet above confluence with Gothards Creek

[2]Feet above confluence with Mill Creek

[3]Feet above confluence with Beaver Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

MILL CREEK – MILL CREEK TRIBUTARY 1 – MILLER CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
MILLER CREEK TRIBUTARY A								
A	381[1]	80	104	4.4	942.3	942.3	942.9	0.6
B	818[1]	35	58	8.4	952.8	952.8	952.8	0.0
C	1,086[1]	62	454	0.3	970.6	970.6	970.6	0.1
MOBLEY CREEK								
A	2,240[2]	100	430	9.8	895.2	895.2	895.2	0.0
B	3,940[2]	240	890	4.8	905.8	905.8	905.8	0.0
C	4,930[2]	120	460	9.2	911.0	911.0	911.0	0.0
D	6,740[2]	310	1,380	2.8	920.6	920.6	920.6	0.0
E	8,640[2]	220	670	5.8	924.5	924.5	924.5	0.0
F	10,450[2]	170	550	7.0	931.8	931.8	931.8	0.0
G	12,770[2]	220	1,100	3.3	940.0	940.0	940.0	0.0
H	14,590[2]	310	1,220	3.0	942.2	942.2	943.0	0.8
I	17,100[2]	230	610	4.8	948.3	948.3	948.9	0.6
J	19,210[2]	170	620	4.7	953.9	953.9	954.7	0.8
K	21,630[2]	250	900	3.2	961.6	961.6	962.3	0.7
L	24,140[2]	160	920	3.1	968.5	968.5	969.2	0.7
M	25,910[2]	180	550	4.4	973.4	973.4	973.8	0.4
N	26,650[2]	320	530	4.6	976.9	976.9	977.0	0.1

[1] Feet above confluence with Miller Creek

[2] Feet above confluence with Dog River

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

MILLER CREEK TRIBUTARY A - MOBLEY CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
MOBLEY CREEK TRIBUTARY 5								
A	50	80	190	7.0	913.5	912.0[2]	912.0	0.0
B	730	240	420	3.1	917.6	917.6	917.6	0.0
C	2,240	50	130	10.1	935.2	935.2	935.2	0.0
MOBLEY CREEK TRIBUTARY 6								
A	180	110	170	5.5	934.2	932.3[3]	932.3	0.0
B	1,420	50	140	6.9	942.0	942.0	942.0	0.0
C	3,060	110	160	5.9	959.2	959.2	959.2	0.0
MOBLEY CREEK TRIBUTARY 7								
A	1,860	130	240	5.9	976.5	976.5	976.5	0.0
B	3,960	40	140	9.8	990.6	990.6	990.6	0.0
C	4,790	60	250	5.6	998.4	998.4	998.7	0.3

[1]Feet above confluence with Mobley Creek

[2]Elevation computed without consideration of backwater effects from Mobley Creek

[3]Elevation computed without consideration of flooding controlled by Mobley Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

MOBLEY CREEK TRIBUTARY 5 – MOBLEY CREEK TRIBUTARY 6 – MOBLEY CREEK TRIBUTARY 7

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
MUD CREEK								
A	14,846	360	2,040	2.2	945.0	945.0	946.0	1.0
B	16,677	410	3,260	1.4	949.6	949.6	950.5	0.9
C	18,937	350	2,240	2.0	952.6	952.6	953.4	0.8
D	21,339	370	2,660	1.5	955.0	955.0	955.9	0.9
E	23,697	540	3,190	1.2	956.6	956.6	957.6	1.0
F	28,297	320	1,300	1.9	964.2	964.2	965.2	1.0
G	31,289	320	1,480	1.7	971.4	971.4	972.3	0.9
PALMER BRANCH								
A	897	60	370	9.0	762.6	762.6	762.7	0.1
B	2,207	50	354	9.1	782.1	782.1	782.4	0.3
C	3,236	64	470	6.6	796.6	796.6	797.3	0.7
D	4,499	68	527	4.4	811.4	811.4	812.0	0.6
E	6,121	107	553	4.2	828.9	828.9	829.1	0.2
F	7,424	55	276	6.5	840.4	840.4	840.8	0.4
G	8,953	145	360	5.0	853.8	853.8	854.1	0.3
H	10,420	52	148	7.4	873.7	873.7	873.8	0.1
I	11,647	16	48	8.9	892.9	892.9	893.4	0.5

[1]Feet above confluence with Sweetwater Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

MUD CREEK – PALMER BRANCH

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
PALMER BRANCH TRIBUTARY A								
A	553	170	1,300	0.1	829.0	829.0	829.0	0.0
B	1,677	6	11	7.8	857.1	857.1	857.1	0.0
C	2,478	10	13	6.8	908.0	908.0	908.0	0.0
PALMER BRANCH TRIBUTARY B								
A	287	45	168	5.1	810.4	810.4	810.7	0.3
B	1,554	34	117	7.3	829.0	829.0	829.3	0.3
C	2,398	30	113	7.5	859.1	859.1	859.3	0.3
PALMER BRANCH TRIBUTARY C								
A	361	44	139	6.3	860.8	860.8	861.1	0.3
B	868	70	427	2.0	881.2	881.2	882.1	0.9
C	1,669	19	38	7.2	928.8	928.8	928.8	0.0
D	2,443	34	54	5.1	1,004.8	1,004.8	1,004.8	0.0

[1] Feet above confluence with Palmer Branch

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

PALMER BRANCH TRIBUTARY A – PALMER BRANCH TRIBUTARY B – PALMER BRANCH TRIBUTARY C

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
PANTHER CREEK								
A	119[1]	211[2]	452	4.7	773.9	773.9	774.7	0.8
B	991[1]	97	394	5.4	780.9	780.9	781.9	1.0
C	2,335[1]	85	476	4.5	796.7	796.7	797.5	0.8
D	3,353[1]	89	333	5.7	805.5	805.5	805.9	0.4
E	4,347[1]	114	506	3.7	814.3	814.3	815.3	1.0
F	5,051[1]	100	327	5.8	824.6	824.6	825.2	0.6
G	5,201[1]	48	178	4.7	826.6	826.6	827.5	0.9
H	6,228[1]	81	162	5.1	877.4	877.4	877.5	0.1
I	7,136[1]	24	85	9.9	895.7	895.7	895.8	0.1
J	7,519[1]	144	252	3.3	907.4	907.4	907.4	0.0
K	7,753[1]	144	713	1.8	915.3	915.3	916.1	0.8
L	8,096[1]	14	95	8.8	917.5	917.5	917.8	0.3
M	8,946[1]	107	291	2.9	933.3	933.3	934.3	1.0
PANTHER CREEK TRIBUTARY A								
A	99[3]	79	259	2.9	826.2	826.2	827.2	1.0
B	540[3]	32	81	9.3	832.6	832.6	832.7	0.1
C	1,318[3]	100	156	4.8	851.2	851.2	851.3	0.1

[1]Feet above confluence with Chapel Farms Creek

[2]Combined floodway width with Chapel Farms Creek

[3]Feet above confluence with Panther Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

PANTHER CREEK - PANTHER CREEK TRIBUTARY A

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
PARK CREEK								
A	2,388[1]	109	817	2.2	888.7	888.7	889.2	0.5
B	2,805[1]	179	1,329	1.4	893.8	893.8	894.5	0.7
C	3,682[1]	134	776	2.3	899.7	899.7	900.4	0.7
D	4,936[1]	72	188	6.5	908.8	908.8	908.9	0.1
E	5,672[1]	73	322	3.8	919.5	919.5	920.5	1.0
F	6,177[1]	90	463	2.7	927.6	927.6	928.1	0.5
G	6,891[1]	85	179	6.9	938.0	938.0	938.1	0.1
H	7,238[1]	83	208	5.9	948.2	948.2	948.3	0.1
I	7,770[1]	71	150	8.2	958.7	958.7	958.7	0.0
PINE CREEK								
A	2,278[1]	101	1,176	0.5	889.9	889.9	889.9	0.0
B	3,544[1]	125	821	0.8	890.0	890.0	890.0	0.0
PINEWOOD BRANCH								
A	2,022[2]	105	249	4.8	891.8	891.8	892.2	0.4
B	2,602[2]	81	114	8.2	902.6	902.6	902.6	0.0
C	3,301[2]	150	395	2.4	919.5	919.5	920.4	0.9
D	3,885[2]	105	152	6.2	930.4	930.4	930.5	0.1
E	4,490[2]	116	237	4.0	942.3	942.3	942.3	0.0

[1]Feet above confluence with Sweetwater Creek

[2]Feet above confluence with Park Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

PARK CREEK – PINE CREEK – PINEWOOD BRANCH

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
PINEWOOD BRANCH TRIBUTARY A								
A	716 [1]	32	46	6.9	914.5	914.5	914.6	0.1
B	1,297 [1]	32	130	2.3	930.7	930.7	930.7	0.0
C	1,678 [1]	12	36	8.2	935.4	935.4	935.8	0.4
D	2,322 [1]	24	48	6.2	957.0	957.0	957.0	0.0
E	2,701 [1]	36	146	2.0	968.3	968.3	969.1	0.8
SHELL CREEK								
A	884 [2]	56	215	5.5	1,000.1	1,000.1	1,001.0	0.9
B	1,656 [2]	56	156	4.5	1,009.8	1,009.8	1,010.6	0.8
C	2,498 [2]	37	88	8.0	1,022.0	1,022.0	1,022.0	0.0
D	3,617 [2]	37	91	7.7	1,038.6	1,038.6	1,038.6	0.0
E	4,769 [2]	28	48	8.4	1,058.8	1,058.8	1,058.8	0.0
F	5,762 [2]	91	106	3.8	1,077.8	1,077.8	1,077.8	0.0
SHOALS BRANCH								
A	861 [3]	21	153	11.4	778.4	778.4	778.5	0.1
B	1,795 [3]	25	157	9.6	802.4	802.4	802.7	0.3
C	3,211 [3]	73	350	7.3	825.8	825.8	826.5	0.7
D	3,850 [3]	58	209	7.6	833.7	833.7	834.0	0.3
E	5,129 [3]	10	74	14.0	854.0	854.0	854.2	0.2
F	7,041 [3]	56	191	5.5	886.3	886.3	886.9	0.6

[1]Feet above confluence with Pinewood Branch

[2]Feet above confluence with Hurricane Creek

[3]Feet above confluence with Sweetwater Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

PINEWOOD BRANCH TRIBUTARY A – SHELL CREEK – SHOALS BRANCH

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SHOALS BRANCH (CONTINUED)								
G	8,915 [1]	39	131	6.0	924.8	924.8	925.4	0.6
H	10,527 [1]	45	108	7.3	960.6	960.6	960.7	0.1
SHOALS BRANCH TRIBUTARY A								
A	666 [2]	39	125	5.5	840.4	840.4	841.1	0.7
B	1,466 [2]	16	62	11.0	873.0	873.0	873.5	0.5
SHOALS BRANCH TRIBUTARY B								
A	84 [2]	26	101	6.5	844.5	844.5	845.4	0.9
B	635 [2]	53	119	5.5	861.3	861.3	861.3	0.0
C	1,101 [2]	60	138	4.7	877.5	877.5	877.5	0.0
SIMON CREEK								
A	1,456 [3]	80	303	4.8	880.7	880.7	881.7	1.0
B	3,191 [3]	91	673	2.2	898.6	898.6	899.6	1.0
C	4,249 [3]	26	176	8.3	905.8	905.8	906.2	0.4
D	5,373 [3]	17	121	7.5	912.6	912.6	913.0	0.4
E	6,590 [3]	42	392	2.3	928.8	928.8	929.4	0.6
F	7,431 [3]	38	228	4.0	929.3	929.3	930.0	0.7
G	8,201 [3]	24	92	9.8	933.7	933.7	933.7	0.0

[1]Feet above confluence with Sweetwater Creek
[2]Feet above confluence with Shoals Branch
[3]Feet above confluence with Anneewakee Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

SHOALS BRANCH – SHOALS BRANCH TRIBUTARY A – SHOALS BRANCH TRIBUTARY B- SIMON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SLATER MILL CREEK								
A	242	281	2,195	3.8	950.7	950.7	951.2	0.5
B	1,263	39	280	15.1	959.8	959.8	959.8	0.0
C	2,427	143	603	7.0	982.5	982.5	982.5	0.0
D	4,044	320	881	4.8	997.5	997.5	997.5	0.0
E	5,202	60	299	10.4	1,003.4	1,003.4	1,004.0	0.6
F	5,262	60	738	5.0	1,012.6	1,012.6	1,013.2	0.6
G	5,852	73	691	4.5	1,013.1	1,013.1	1,013.6	0.5
H	6,173	73	1,477	2.5	1,026.8	1,026.8	1,027.3	0.5
I	6,731	131	357	8.7	1,029.0	1,029.0	1,029.0	0.0
J	6,830	359	1,131	2.7	1,031.6	1,031.6	1,031.6	0.0
K	6,984	190	666	1.6	1,032.4	1,032.4	1,032.4	0.0
L	8,107	75	299	3.7	1,043.0	1,043.0	1,043.9	0.9
M	8,540	41	126	8.7	1,049.9	1,049.9	1,049.9	0.0
N	8,629	233	476	2.4	1,053.6	1,053.6	1,053.6	0.0
O	8,710	137	235	4.7	1,054.4	1,054.4	1,054.4	0.0
P	8,761	118	217	5.0	1,056.5	1,056.5	1,056.5	0.0
Q	8,986	35	118	9.2	1,059.3	1,059.3	1,059.5	0.2

[1]Feet above confluence with Little Anneewakee Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

SLATER MILL CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SLATER MILL CREEK TRIBUTARY A								
A	78	223	545	2.5	1,031.7	1,031.7	1,031.7	0.0
B	1,211	80	293	4.7	1,041.4	1,041.4	1,041.4	0.0
C	1,288	76	352	4.4	1,045.1	1,045.1	1,045.1	0.0
D	2,681	38	177	7.9	1,055.6	1,055.6	1,055.7	0.1
E	2,796	70	814	2.5	1,067.8	1,067.8	1,068.6	0.8
F	3,758	130	634	2.2	1,068.0	1,068.0	1,068.9	0.9
G	5,109	79	169	8.7	1,084.8	1,084.8	1,084.8	0.0
H	5,129	80	293	5.4	1,086.8	1,086.8	1,087.6	0.8
I	6,419	167	329	4.3	1,109.9	1,109.9	1,110.0	0.1
J	6,490	76	318	4.7	1,111.7	1,111.7	1,112.3	0.6
K	7,936	77	180	7.8	1,154.6	1,154.6	1,154.7	0.1
L	8,022	140	490	3.4	1,160.3	1,160.3	1,160.3	0.0
M	8,353	95	210	6.7	1,170.5	1,170.5	1,170.6	0.1

[1]Feet above confluence with Slater Mill Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

SLATER MILL CREEK TRIBUTARY A

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SLATER MILL CREEK TRIBUTARY B								
A	134	147	681	1.1	1,032.3	1,032.3	1,032.3	0.0
B	1,217	34	126	5.8	1,038.8	1,038.8	1,039.0	0.2
C	2,343	15	69	10.6	1,049.0	1,049.0	1,049.4	0.4
D	2,456	18	173	4.3	1,054.4	1,054.4	1,055.4	1.0
E	3,081	26	77	9.5	1,059.1	1,059.1	1,059.2	0.1
F	3,759	29	88	8.4	1,069.1	1,069.1	1,069.1	0.0

[1]Feet above confluence with Slater Mill Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

SLATER MILL CREEK TRIBUTARY B

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SPIVEY BRANCH								
A	1,269 [1]	44	237	8.2	945.6	945.6	945.7	0.1
B	2,925 [1]	25	123	13.7	955.5	955.5	955.6	0.1
C	3,894 [1]	25	172	6.7	966.2	966.2	966.6	0.4
D	4,793 [1]	98	407	5.0	972.3	972.3	973.3	1.0
E	5,496 [1]	68	305	5.3	977.7	977.7	978.7	1.0
F	6,329 [1]	33	105	11.6	989.5	989.5	989.6	0.1
G	7,595 [1]	17	59	11.3	1,026.6	1,026.6	1,026.8	0.2
H	8,797 [1]	29	77	10.3	1,056.0	1,056.0	1,056.5	0.5
I	9,694 [1]	14	53	11.0	1,073.9	1,073.9	1,074.2	0.3
SPIVEY BRANCH TRIBUTARY A								
A	500 [2]	31	40	6.4	974.7	974.7	974.7	0.0
B	1,689 [2]	13	29	8.7	987.0	987.0	987.2	0.2
C	3,367 [2]	23	37	8.2	1,027.1	1,027.1	1,027.1	0.0
D	3,707 [2]	25	132	2.7	1,036.8	1,036.8	1,037.5	0.7
SPIVEY BRANCH TRIBUTARY B								
A	547 [2]	22	96	13.1	986.5	986.5	986.7	0.2
B	1,644 [2]	110	997	0.9	1,002.5	1,002.5	1,002.5	0.0

[1]Feet above confluence with Hickory Creek

[2]Feet above confluence with Spivey Branch

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

SPIVEY BRANCH – SPIVEY BRANCH TRIBUTARY A-SPIVEY BRANCH TRIBUTARY B

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SWEETWATER CREEK								
A	1,112	119	2,526	6.8	756.6	747.5[2]	748.4	0.9
B	2,362	139	2,696	6.3	756.6	749.3[2]	750.1	0.8
C	4,816	279	5,034	3.4	756.6	751.5[2]	752.5	1.0
D	6,849	450	5,543	3.0	756.6	752.7[2]	753.7	1.0
E	9,496	164	2,672	6.2	756.6	754.2[2]	755.1	0.9
F	11,819	167	1,562	10.7	757.7	757.7	758.4	0.7
G	13,155	400	3,648	4.6	766.5	766.5	766.7	0.2
H	15,432	189	1,465	11.4	774.2	774.2	774.2	0.0
I	17,497	152	1,112	15.0	795.4	795.4	795.4	0.0
J	18,847	384	2,119	7.9	814.8	814.8	814.8	0.0
K	19,742	386	2,194	7.6	835.1	835.1	835.2	0.1
L	20,628	358	1,621	10.3	851.9	851.9	851.9	0.0
M	22,843	152	2,186	7.6	863.6	863.6	863.9	0.3
N	24,818	141	2,284	7.3	867.3	867.3	868.1	0.8
O	29,236	510	5,808	2.9	872.6	872.6	873.5	0.9
P	33,488	513	6,171	2.7	876.5	876.5	877.5	1.0
Q	35,952	439	6,021	2.8	877.9	877.9	878.8	0.9
R	38,324	233	3,988	4.2	879.8	879.8	880.5	0.7
S	40,585	1526	18,690	0.9	881.1	881.1	882.0	0.9
T	44,631	615	7,596	2.2	881.7	881.7	882.6	0.9
U	47,810	478	7,526	2.2	883.7	883.7	884.6	0.9

[1]Feet above confluence with Chattahoochee River

[2]Elevation computed without consideration of backwater effects from Chattahoochee River

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

SWEETWATER CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SWEETWATER CREEK (CONTINUED)								
V	50,155[1]	498	8,337	2.0	884.8	884.8	885.7	0.9
W	52,410[1]	778	11,051	1.5	885.6	885.6	886.5	0.9
X	54,339[1]	922	10,841	1.5	886.8	886.8	887.6	0.8
Y	57,362[1]	499	7,417	2.2	887.6	887.6	888.5	0.9
Z	59,490[1]	176	3,289	5.0	888.6	888.6	889.4	0.8
AA	61,741[1]	308	5,428	3.0	890.2	890.2	891.2	1.0
AB	187,255[1]	420/970[3]	4,470	0.8	946.8	946.8	947.6	0.8
SWEETWATER CREEK TRIBUTARY A								
A	1,464[2]	40	107	5.6	757.6	757.6	757.6	0.0
B	2,138[2]	19	59	10.2	769.4	769.4	769.4	0.0
C	2,605[2]	148	1,598	0.4	792.0	792.0	793.0	1.0

[1]Feet above confluence with Chattahoochee River

[2]Feet above confluence with Sweetwater Creek

[3]Width within county/total width

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

SWEETWATER CREEK – SWEETWATER CREEK TRIBUTARY 1 – SWEETWATER CREEK TRIBUTARY A

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SWEETWATER CREEK TRIBUTARY B								
A	1,172	17	54	10.7	756.6	751.8[2]	751.9	0.1
B	2,024	35	76	7.5	773.4	773.4	773.6	0.2
SWEETWATER CREEK TRIBUTARY C								
A	1,742	56	206	7.7	756.6	756.6	756.9	0.3
B	2,635	53	159	8.3	768.8	768.8	768.9	0.1
C	3,570	76	240	5.5	786.6	786.6	786.8	0.2
SWEETWATER CREEK TRIBUTARY D								
A	2,105	78	226	5.2	756.6	753.9[2]	754.3	0.4
B	2,961	54	192	6.1	765.3	765.3	765.6	0.3
C	4,238	53	187	6.3	786.8	786.8	787.2	0.4
D	5,324	93	243	2.4	802.8	802.8	803.7	0.9
E	6,264	83	252	2.3	817.8	817.8	818.8	1.0
F	7,532	8	43	13.2	843.7	843.7	843.9	0.2

[1]Feet above confluence with Sweetwater Creek

[2]Elevation computed without consideration of backwater effects from Sweetwater Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

SWEETWATER CREEK TRIBUTARY B– SWEETWATER CREEK TRIBUTARY C – SWEETWATER CREEK TRIBUTARY D

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SWEETWATER CREEK TRIBUTARY E								
A	1,014	58	221	6.2	790.5	790.5	791.1	0.6
B	2,290	40	198	6.9	821.1	821.1	821.8	0.7
C	3,236	55	203	6.7	847.5	847.5	847.8	0.3
D	4,143	66	241	5.7	876.8	876.8	877.1	0.3
SWEETWATER CREEK TRIBUTARY F								
A	619	50	101	8.4	875.9	871.7[2]	871.7	0.0
B	1,304	50	143	6.0	906.8	906.8	906.9	0.1
C	1,699	23	101	8.4	929.3	929.3	930.1	0.8
D	2,452	113	410	2.1	947.6	947.6	948.6	1.0
SWEETWATER CREEK TRIBUTARY G								
A	1,254	67	145	5.6	882.6	882.6	882.6	0.0
B	1,593	60	501	1.6	914.4	914.4	914.8	0.4
C	2,482	11	39	10.6	930.1	930.1	930.5	0.4
D	3,564	36	73	5.7	967.4	967.4	967.9	0.5
E	3,981	150	1,911	0.2	991.6	991.6	992.1	0.5

[1]Feet above confluence with Sweetwater Creek

[2]Elevation computed without consideration of backwater effects from Sweetwater Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

SWEETWATER CREEK TRIBUTARY E – SWEETWATER CREEK TRIBUTARY F – SWEETWATER CREEK TRIBUATARY G

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SWEETWATER CREEK TRIBUTARY H								
A	2,762	181	541	4.6	883.8	883.8	883.8	0.0
B	4,366	111	598	2.1	902.6	902.6	903.0	0.4
SWEETWATER CREEK TRIBUTARY I								
A	1,727	33	172	1.6	885.4	885.4	886.3	0.9
B	2,392	12	32	8.7	899.8	899.8	899.8	0.0
C	2,923	27	102	2.7	915.4	915.4	916.0	0.6
SWEETWATER CREEK TRIBUTARY J								
A	1,966	56	335	3.3	889.3	889.3	889.3	0.0
B	3,283	12	43	7.7	906.1	906.1	906.9	0.8
C	3,877	115	176	1.9	916.9	916.9	917.0	0.1
D	4,477	19	56	5.9	926.7	926.7	927.0	0.3

[1]Feet above confluence with Sweetwater Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

SWEETWATER CREEK TRIBUTARY H – SWEETWATER CREEK TRIBUTARY I – SWEETWATER CREEK TRIBUATARY J

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SWEETWATER CREEK TRIBUTARY K								
A	3,398	44	103	6.8	891.4	891.4	891.5	0.1
B	3,883	363	2,701	0.1	905.7	905.7	905.7	0.0
C	5,043	56	121	2.3	915.1	915.1	916.0	0.9
SWEETWATER CREEK TRIBUTARY L								
A	3,549	97	429	2.9	906.4	906.4	907.4	1.0
B	5,502	28	128	4.3	923.1	923.1	924.1	1.0
C	6,240	59	221	2.5	931.4	931.4	932.2	0.8
D	7,385	42	123	4.3	938.1	938.1	938.9	0.8
E	8,801	32	85	6.2	951.9	951.9	952.4	0.5
F	10,424	314	1,712	0.3	990.8	990.8	990.8	0.0
G	11,543	30	76	6.9	999.8	999.8	1,000.1	0.3
H	12,599	35	121	4.4	1,013.5	1,013.5	1,014.1	0.6
I	13,810	13	68	7.8	1,037.4	1,037.4	1,038.1	0.7
J	14,247	21	81	6.5	1,045.8	1,045.8	1,046.8	1.0

[1]Feet above confluence with Sweetwater Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

SWEETWATER CREEK TRIBUTARY K – SWEETWATER CREEK TRIBUTARY L

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SWEETWATER CREEK TRIBUTARY L.2								
A	859	22	64	5.4	921.2	921.2	921.6	0.4
B	1,318	10	58	6.0	932.6	932.6	933.4	0.8
C	1,512	20	75	4.6	937.6	937.6	937.7	0.1
D	1,862	10	35	9.7	945.4	945.4	945.6	0.2
E	2,316	20	43	8.0	955.2	955.2	955.4	0.2
F	2,678	18	58	5.8	963.0	963.0	963.9	0.9
SWEETWATER CREEK TRIBUTARY L.3								
A	382	21	47	5.5	944.6	944.0	944.1	0.1
B	551	32	99	2.6	954.1	954.1	954.2	0.1
C	1,127	115	115	1.7	955.2	955.2	955.3	0.1
D	1,423	259	470	0.4	973.1	973.1	973.1	0.0
E	1,974	25	31	6.3	973.1	973.1	973.3	0.2
F	2,155	203	328	0.6	988.6	988.6	989.0	0.4

[1]Feet above confluence with Sweetwater Creek Tributary L

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

SWEETWATER CREEK TRIBUTARY L.2 – SWEETWATER CREEK TRIBUTARY L.3

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
SWEETWATER CREEK TRIBUTARY L.3.1								
A	312[1]	20	22	5.9	959.1	959.1	959.7	0.6
B	476[1]	22	23	5.7	970.5	970.5	970.9	0.4
C	796[1]	58	74	1.8	976.6	976.6	976.8	0.2
D	1,053[1]	7	15	8.5	982.1	982.1	982.3	0.2
TANYARD BRANCH								
A	457[2]	45	205	8.1	806.7	806.7	807.7	1.0
B	1,047[2]	34	189	8.8	812.1	812.1	813.0	0.9
C	1,559[2]	40	181	9.2	816.7	816.7	816.8	0.1
D	2,025[2]	46	170	9.8	823.2	823.2	823.9	0.7
E	2,277[2]	39	417	4.0	834.6	834.6	834.6	0.0
F	3,253[2]	74	210	7.9	889.5	889.5	889.5	0.0
G	4,603[2]	86	318	5.2	903.8	903.8	904.8	1.0
H	5,571[2]	212	376	4.4	916.5	916.5	916.5	0.0
I	6,517[2]	52	186	8.9	928.3	928.3	928.6	0.3
J	7,656[2]	162	329	6.1	963.3	963.3	964.0	0.7
K	7,745[2]	284	1,990	1.0	964.2	964.2	965.1	0.9
L	8,024[2]	180	1,265	1.6	964.2	964.2	965.1	0.9
M	8,374[2]	124	830	2.4	964.2	964.2	965.1	0.9
N	8,735[2]	53	342	5.8	964.2	964.2	964.7	0.5

[1]Feet above confluence with Sweetwater Creek Tributary L.3

[2]Feet above confluence with Little Bear Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

SWEETWATER CREEK TRIBUTARY L.3.1 – TANYARD BRANCH

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
TANYARD BRANCH (CONTINUED)								
O	9,359	130	293	6.8	988.0	988.0	988.4	0.4
P	9,440	236	2,453	0.8	988.7	988.7	989.5	0.8
Q	9,830	400	4,188	0.5	988.7	988.7	989.5	0.8
R	10,314	30	170	11.7	988.7	988.7	988.7	0.0
S	10,783	38	207	9.6	1,002.2	1,002.2	1,002.2	0.0
T	11,116	93	188	3.4	1,008.5	1,008.5	1,009.5	1.0
U	12,290	25	84	7.5	1,030.2	1,030.2	1,030.6	0.4
V	13,473	46	160	3.9	1,054.7	1,054.7	1,055.7	1.0
W	14,260	51	86	7.3	1,075.4	1,075.4	1,075.4	0.0
X	14,683	38	84	7.5	1,088.8	1,088.8	1,088.9	0.1
Y	14,756	38	270	2.3	1,093.2	1,093.2	1,094.1	0.9
Z	15,592	60	103	6.1	1,104.7	1,104.7	1,105.2	0.5
AA	15,651	61	257	2.5	1,108.6	1,108.6	1,109.3	0.7
AB	15,921	15	71	8.9	1,113.4	1,113.4	1,114.2	0.8
AC	16,000	46	226	2.8	1,117.3	1,117.3	1,118.3	1.0
AD	16,416	17	64	9.9	1,126.1	1,126.1	1,126.3	0.2
AE	16,481	63	316	2.0	1,131.1	1,131.1	1,132.1	1.0
AF	16,658	32	46	13.6	1,132.0	1,132.0	1,132.0	0.0

[1]Feet above confluence with Little Bear Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

TANYARD BRANCH

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
TANYARD BRANCH TRIBUTARY A								
A	208[1]	16	50	9.7	1,007.8	1,007.8	1,007.9	0.1
B	1,094[1]	10	41	11.7	1,040.6	1,040.6	1,040.8	0.2
C	2,210[1]	103	104	4.7	1,072.8	1,072.8	1,072.9	0.1
D	2,332[1]	82	190	2.6	1,077.0	1,077.0	1,077.6	0.6
E	2,648[1]	16	54	8.9	1,081.2	1,081.2	1,082.1	0.9
TIGER CREEK								
A	37[2]	233[3]	172	9.2	1,045.3	1,038.1[4]	1,038.6	0.5
B	964[2]	31	156	10.1	1,045.6	1,045.6	1,045.6	0.0
C	1,822[2]	35	183	8.6	1,050.4	1,050.4	1,051.4	1.0
D	2,624[2]	45	172	9.2	1,058.0	1,058.0	1,058.2	0.2
E	3,764[2]	35	142	10.9	1,073.9	1,073.9	1,074.1	0.2
F	3,875[2]	35	347	4.5	1,081.2	1,081.2	1,081.9	0.7
G	4,370[2]	162	349	4.4	1,085.5	1,085.5	1,085.6	0.1
H	4,410[2]	184	1,725	0.9	1,086.3	1,086.3	1,086.9	0.6
I	4,702[2]	238	2,422	0.6	1,086.3	1,086.3	1,086.9	0.6
J	4,975[2]	120	294	4.2	1,086.3	1,086.3	1,086.9	0.6
K	5,815[2]	153	295	4.1	1,098.3	1,098.3	1,098.3	0.0
L	6,876[2]	76	190	4.3	1,117.7	1,117.7	1,117.7	0.0
M	7,216[2]	35	128	6.4	1,119.7	1,119.7	1,120.5	0.8

[1]Feet above confluence with Tanyard Branch

[2]Feet above confluence with Anneewakee Creek

[3]Combined floodway width with Anneewakee Creek

[4]Elevation computed without consideration of backwater effects from Anneewakee Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

TANYARD BRANCH TRIBUTARY A – TIGER CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
TIGER CREEK (CONTINUED)								
N	7,308[1]	35	235	3.5	1,123.9	1,123.9	1,124.9	1.0
O	7,529[1]	45	182	4.5	1,126.6	1,126.6	1,126.8	0.2
P	7,636[1]	45	217	3.8	1,129.1	1,129.1	1,130.0	0.9
Q	8,133[1]	68	167	4.9	1,140.2	1,140.2	1,140.3	0.1
R	8,217[1]	115	186	4.4	1,149.0	1,149.0	1,149.6	0.6
S	8,254[1]	314	2,188	0.4	1,149.5	1,149.5	1,150.5	1.0
T	8,516[1]	276	1,907	0.4	1,149.5	1,149.5	1,150.5	1.0
U	8,808[1]	14	68	12.0	1,152.4	1,152.4	1,152.4	0.0
TIGER CREEK TRIBUTARY A								
A	271[2]	12	44	7.7	1,086.4	1,086.0[3]	1,086.3	0.3
B	876[2]	26	68	5.0	1,096.5	1,096.5	1,096.5	0.0
TOWN BRANCH								
A	3,030[4]	250	2,510	1.0	969.5	969.5	970.5	1.0
B	3,890[4]	250	1,580	1.7	970.1	970.1	971.0	0.9
C	5,781[4]	140	780	3.4	973.3	973.3	974.0	0.7
D	7,228[4]	550	3,530	0.7	979.6	979.6	980.4	0.8
E	10,628[4]	300	1,350	1.8	985.5	985.5	986.5	1.0

[1]Feet above confluence with Anneewakee Creek
[2]Feet above confluence with Tiger Creek
[3]Elevation computed without consideration of backwater effects from Tiger Creek
[4]Feet above confluence with Mud Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

TIGER CREEK – TIGER CREEK TRIBUTARY A – TOWN BRANCH

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (FEET NAVD)	WITHOUT FLOODWAY (FEET NAVD)	WITH FLOODWAY (FEET NAVD)	INCREASE (FEET)
TYREE BRANCH								
A	898[1]	24	61	8.9	1,052.7	1,052.7	1,052.7	0.0
B	1,307[1]	19	56	9.7	1,061.6	1,061.6	1,061.6	0.0
C	1,867[1]	17	54	10.1	1,073.3	1,073.3	1,073.3	0.0
D	2,625[1]	24	60	9.0	1,088.8	1,088.8	1,088.8	0.0
E	3,662[1]	20	37	7.7	1,108.1	1,108.1	1,108.2	0.1
F	4,874[1]	14	33	8.7	1,139.9	1,139.9	1,139.9	0.0
G	5,303[1]	15	34	8.4	1,156.7	1,156.7	1,156.7	0.0
WATERFALL BRANCH								
A	1,790[2]	200	790	1.7	955.1	955.1	956.1	1.0
B	5,070[2]	130	480	2.8	970.1	970.1	971.1	1.0
C	5,951[2]	210	280	4.9	974.2	974.2	975.2	1.0
ZION BRANCH								
A	887[1]	130	320	4.4	739.0	739.0	739.7	0.7
B	2,283[1]	25	78	9.9	795.7	795.7	795.7	0.0
C	2,850[1]	16	66	11.7	847.8	847.8	847.8	0.0
D	3,589[1]	32	91	8.5	875.9	875.9	875.9	0.0
E	4,854[1]	21	30	7.2	901.4	901.4	901.4	0.0
F	5,688[1]	16	28	7.7	927.7	927.7	927.7	0.0
G	6,247[1]	79	620	0.8	954.6	954.6	954.6	0.0
H	7,130[1]	41	113	4.3	966.8	966.8	967.8	1.0

[1] Feet above confluence with Hurricane Creek

[2] Feet above confluence with Mud Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

FLOODWAY DATA

TYREE BRANCH - WATERFALL BRANCH – ZION BRANCH

The area between the floodway and 1-percent-annual-chance floodplain boundaries is termed the floodway fringe. The floodway fringe encompasses the portion of the floodplain that could be completely obstructed without increasing the water surface elevation WSEL of the 1-percent-annual-chance flood more than 1 foot at any point. Typical relationships between the floodway and the floodway fringe and their significance to floodplain development are shown in Figure 1.

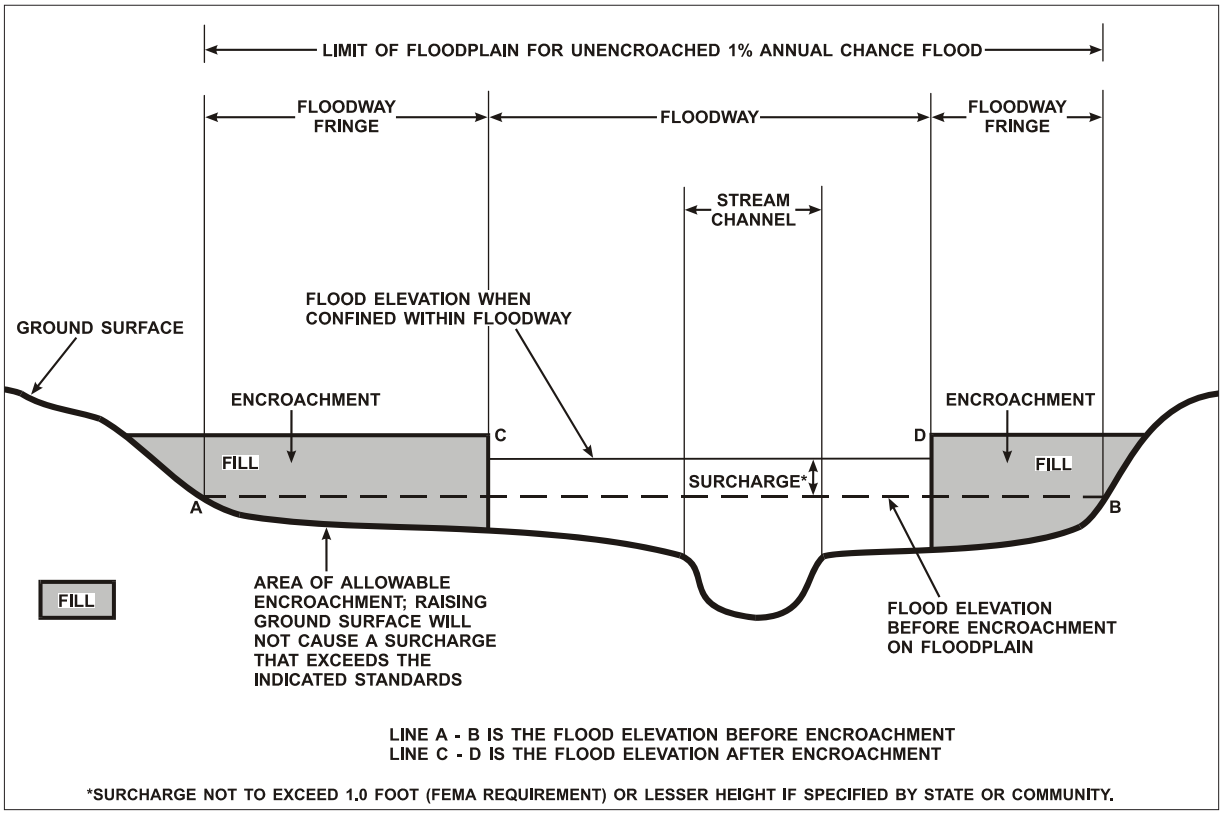

Figure 1 - Floodway Schematic

No floodways were computed for Dog River, upstream of the Douglas County Water Reservoir Dam, Tributary 1 to Northern Lake, Tributary 2 to Northern Lake, and Unnamed Tributary to Southern Lake.

5.0 INSURANCE APPLICATIONS

For flood insurance rating purposes, flood insurance zone designations are assigned to a community based on the results of the engineering analyses. These zones are as follows:

Zone A

Zone A is the flood insurance risk zone that corresponds to the 1-percent-annual-chance floodplains that are determined in the FIS by approximate methods. Because detailed hydraulic analyses are not performed for such areas, no BFEs or base flood depths are shown within this zone.

Zone AE

Zone AE is the flood insurance risk zone that corresponds to the 1-percent-annual-chance floodplains that are determined in the FIS by detailed methods. In most instances, whole-foot BFEs derived from the detailed hydraulic analyses are shown at selected intervals within this zone.

Zone X

Zone X is the flood insurance risk zone that corresponds to areas outside the 0.2-percent-annual-chance floodplain, areas within the 0.2-percent-annual-chance floodplain, areas of 1-percent-annual-chance flooding where average depths are less than 1 foot, areas of 1-percent-annual-chance flooding where the contributing drainage area is less than 1 square mile, and areas protected from the 1-percent-annual-chance flood by levees. No BFEs or base flood depths are shown within this zone.

6.0 FLOOD INSURANCE RATE MAP

The FIRM is designed for flood insurance and floodplain management applications.

For flood insurance applications, the map designates flood insurance risk zones as described in Section 5.0 and, in the 1-percent-annual-chance floodplains that were studied by detailed methods, shows selected whole-foot BFEs or average depths. Insurance agents use the zones and BFEs in conjunction with information on structures and their contents to assign premium rates for flood insurance policies.

For floodplain management applications, the map shows by tints, screens, and symbols, the 1- and 0.2-percent-annual-chance floodplains, floodways, and the locations of selected cross sections used in the hydraulic analyses and floodway computations.

The countywide FIRM presents flooding information for the entire geographic area of Douglas County. Previously, FIRMs were prepared for each incorporated community and the unincorporated areas of the County identified as flood-prone. This countywide FIRM also includes flood-hazard information that was presented separately on Flood Boundary and Floodway Maps, where applicable. Historical data relating to the maps prepared for each community are presented in Table 10.

COMMUNITY NAME	INITIAL IDENTIFICATION	FLOOD HAZARD BOUNDARY MAP REVISION DATE(S)	FLOOD INSURANCE RATE MAP EFFECTIVE DATE	FLOOD INSURANCE RATE MAP REVISION DATE(S)
Austell, City of	April 5, 1974	February 20, 1976	December 1, 1977	September 27, 1991
Douglas County (Unincorporated Areas)	March 5, 1976	None	January 2, 1980	March 15, 1984
Douglasville, City of	April 25, 1975	July 25, 1980	June 25, 1982	None

TABLE 10

FEDERAL EMERGENCY MANAGEMENT AGENCY

DOUGLAS COUNTY, GA
AND INCORPORATED AREAS

COMMUNITY MAP HISTORY

7.0 OTHER STUDIES

This report either supersedes or is compatible with all previous studies on streams studied in this report and should be considered authoritative for purposes of the NFIP.

8.0 LOCATION OF DATA

Information concerning the pertinent data used in the preparation of this study can be obtained by contacting FEMA, Federal Insurance and Mitigation Division, Koger Center – Rutgers Building, 3003 Chamblee Tucker Road, Atlanta, Georgia 30341.

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