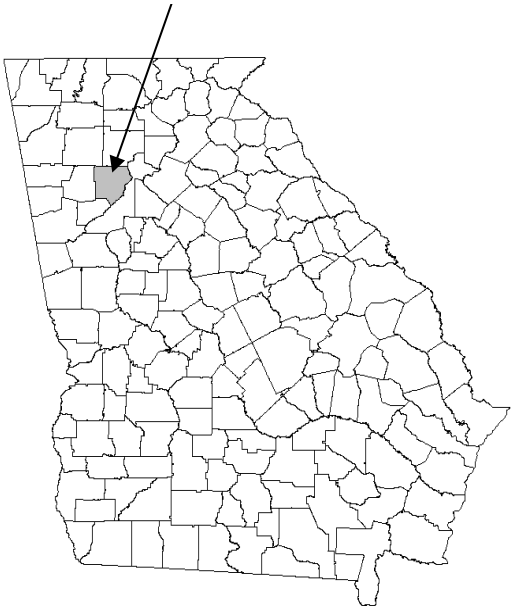
# FLOOD INSURANCE STUDY

**VOLUME 1 OF 4**

**Cobb County**



# COBB COUNTY, GEORGIA

## AND INCORPORATED AREAS

| COMMUNITY NAME | COMMUNITY NUMBER |
|---|---|
| ACWORTH, CITY OF | 130053 |
| AUSTELL, CITY OF | 130054 |
| COBB COUNTY (UNINCORPORATED AREAS) | 130052 |
| KENNESAW, CITY OF | 130055 |
| MARIETTA, CITY OF | 130226 |
| POWDER SPRINGS, CITY OF | 130056 |
| SMYRNA, CITY OF | 130057 |

REVISED:
MARCH 4, 2013

Federal Emergency Management Agency

**FLOOD INSURANCE STUDY NUMBER**
**13067CV001D**

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, 1992

Revised Countywide FIS Effective Date: December 16, 2008

Revised Countywide FIS Effective Date: March 4, 2013

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FLOOD INSURANCE STUDY
COBB 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 Cobb County, including the Cities of Acworth, Austell, Kennesaw, Marietta, Powder Springs, and Smyrna; and the unincorporated areas of Cobb County (referred to collectively herein as Cobb County). Please note that the City of Austell is geographically located in both Cobb and Douglas Counties. The City of Austell is included in its entirety in this FIS report. This FIS 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 (CFR) at 44 CFR, 60.3.

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.

## 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.

The hydrologic and hydraulic analyses for the initial countywide FIS, dated August 18, 1992 (FEMA, 1992), were prepared by PBS&J for FEMA, under Contract No. EMW-88-C-2614 for the following streams: Rottenwood Creek upstream of Interstate 75; Olley Creek downstream of Hill Street; Noonday Creek Tributary No. 4; Noonday Creek Tributary No. 7; Rubes Creek; Trikum Creek; Tate Creek; and Morgan Lake Tributary. That work was completed in May 1989.

The Hydrologic and hydraulic analyses for certain other streams were previously determined (Cobb County FIS, 1989). These streams were: Rottenwood Creek Downstream of Interstate 75 and Rottenwood Creek's 477840 tributaries; Sweetwater Creek and tributaries; Nickajack Creek and tributaries; Sope Creek and tributaries; Willeo Creek and tributaries; the Chattahoochee River and several of its minor tributaries; Rubes Creek and

tributaries; Noonday Creek Tributary No. 6;Tanyard Creek; Proctor Creek; Butler Creek, and Allatoona Creek and tributaries.

Other streams with detailed analysis were taken from the FISs for the Cities of Acworth, Kennesaw, Marietta, Powder Springs, Smyrna, and Austell, Georgia (Reference).

For the revised countywide FIS dated December 16, 2008, the hydrologic and hydraulic analyses were performed by Jordan Jones & Goulding, Inc., for FEMA, under Contract No. EMA-2003-GR-5369 for the following streams:

Bishop Creek
Blackjack Creek
Campground Creek
Eastside Creek
Elizabeth Branch
Piney Grove Creek
Robertson Creek
Rubes Creek
Rubes Creek Tributary
Sewell Mill Creek
Sope Branch
Sope Creek
Thompson Creek
Trickum Creek
Trickum Creek Tributary
Wildwood Branch

This work was completed in December 2004. In addition, hydrologic and hydraulic analyses were also performed by AMEC Earth and Environmental, Inc., for FEMA, under Contract No. EMA-2003-GR-5369 for the following streams:

Concord Creek
Cooper Lake Creek
Favor Creek
Hope Creek
Laurel Creek
Liberty Hill Branch
Milam Branch
Mill Creek No. 2
Nickajack Creek
Olley Creek
Olley Creek Tributary
Poorhouse Creek
Poplar Creek
Powers Creek
Queen Creek
Rottenwood Creek
Smyrna Branch
Theater Branch

This work was completed in October 2004. Hydrologic and hydraulic analyses were also performed by Dewberry and Davis LLC for Cobb County Stormwater Management under Contract SW653 for the following streams:

Allatoona Branch
Allatoona Creek
Butler Creek
Due West Creek
Little Allatoona Creek
Little Noonday Creek
Luther Ward Branch
Mill Creek No. 1
Morgan Lake Tributary
Mud Creek
Noonday Creek
Noonday Creek Tributary No. 3
Noonday Creek Tributary No. 7
Noses Creek
Pitner Creek
Powder Springs Creek
Proctor Creek
Tanyard Creek
Ward Creek

Limited detail hydrologic and hydraulic analyses were also performed for all Zone A and shaded Zone X floodplains, and all non-revised streams were redelineated. This work was completed in December 2006. A revised floodway analysis of the Chattahoochee River was also performed by Cobb County Stormwater Management and completed in August 2007.

The digital base map files are digital orthophotos collected for Cobb County Geographic Information Systems in March 2006. The imagery was collected to produce the set at 6-inch resolution.

For the revised countywide FIS dated June 18, 2010, the hydrological and hydraulic analyses were performed by Braswell Engineering, Inc., for FEMA, as part of a Physical Map Revision (PMR), Case No.09-04-0114S. This work was completed in July 2007.

For the revised countywide FIS dated November 2, 2012, the hydrologic analysis for this revision was performed by Dewberry under contract to Cobb County Stormwater Management. The hydraulic analyses for this revision were performed by Jordan, Jones & Goulding, for Cobb County, as part of a PMR, Case No. 10-04-6265S. This work was completed in 2008.

For this revised countywide FIS, the hydrologic and hydraulic analyses were performed by Dewberry and Davis LLC for FEMA, under Contract No. EMA-2009-CA-5930. Detailed hydrologic and hydraulic analyses were performed for the Chattahoochee River and approximately 32 miles of stream within the Noses and Nickajack sub-basin. This work was completed in July 2011.

The effective hydrologic and hydraulic models for Noonday Creek from the 2008 FIS were revised to incorporate new survey data for culverts under the railroad adjacent to Barrett Parkway and the Chastain Meadows Regional Stormwater Management Facility located approximately 300 feet upstream of the Chastain Meadows Parkway Bridge.

The coordinate system used for the production of the digital FIRM is the Transverse Mercator, State Plane Georgia West (FIPS 1002) projection referenced to the North American Datum of 1983. The use of the base map is restricted by the data agreement between Cobb County Geographic Information Systems and the Study Contractor.

## 1.3 Coordination

For the countywide FIS dated August 18, 1992, for Cobb County, the initial Consultation Coordination Officer (CCO) meeting was held on July 7, 1987, and was attended by representatives of the Study Contractor, Cobb County, and FEMA. The purpose of this meeting was to identify streams requiring detailed study. An additional meeting was held on May 6, 1988, by representatives of

the Study Contractor, Cobb County Development Control Division, and FEMA. The purpose of this meeting was to evaluate flood attenuations and to determine which flood-retarding structures would require special hydrologic analyses.

The results of the study were reviewed at the final Consultation Coordination Officer (CCO) meeting which was held on January 30, 1991, and attended by representatives of the Study Contractor, Cobb County, and FEMA.

For the revised countywide FIS dated December 16, 2008, a scoping meeting was held on September 23, 2004, and was attended by representatives of Cobb County, the Georgia Department of Natural Resources (DNR), FEMA, and PBS&J, the study contractor. The purpose of this meeting was to discuss the scope of the FIS.

For the revised countywide FIS dated June 18, 2010, discussions took place between FEMA and the communities involved in this map revision, and it was decided that a final Consultation Coordination Officer (CCO) meeting CCO meeting was not necessary.

For the revised countywide FIS dated: November 2, 2012, a scoping meeting was held on September 23, 2004, and was attended by repredsentaives of Cobb County, The Georgia DNR, FEMA, and PBS&J. The purpose of this metting was to discuss the scope of the FIS.

For the revised countywide FIS, a final CCO meeting was held on September 5, 2011 to review the results of this revision. This meeting was attended by representatives of FEMA, local communities, and Dewberry and Davis LLC. All issues raised at that meeting have been addressed.

For this revised countywide FIS, a scoping meeting was held on April 16, 2010, and was attended by representatives of FEMA, the DNR, local communities, and Dewberry and Davis LLC. The purpose of this meeting was to discuss the scope of the FIS.

## 2.0 AREA STUDIED

### 2.1 Scope of Study

This FIS covers the geographic area of Cobb 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 sources are studied by detailed methods:

Allatoona Branch
Allatoona Creek
Allatoona Lake
Bishop Creek
Blackjack Creek
Butler Creek
Buttermilk Creek
Campground Creek
Chattahoochee River
Clay Branch
Concord Creek
Cooper Lake Creek
Davis Branch
Due West Creek
Eastside Creek
Elizabeth Branch
Favor Creek
Florence Branch
Gilmore Creek
Gordon Branch
Gordon Creek
Gothards Creek
Harmony Grove Creek
Hope Creek
Lake Acworth
Laurel Creek
Liberty Hill Branch
Little Allatoona Creek
Little Noonday Creek
Lost Mountain Creek
Luther Ward Branch
Milam Branch
Mill Creek No.1
Mill Creek No. 2
Morgan Lake Tributary
Mud Creek
Nickajack Creek
Noonday Creek
Noonday Creek Tributary No. 1
Noonday Creek Tributary No. 3
Noonday Creek Tributary No. 4
Noonday Creek Tributary No. 6
Noonday Creek Tributary No. 7
Noses Creek
Olley Creek
Olley Creek Tributary
Pine Branch
Pine Creek
Piney Grove Creek
Pitner Creek
Poorhouse Creek
Poplar Creek
Powder Springs Creek
Powers Branch
Powers Creek
Proctor Creek
Queen Creek
Robertson Creek
Rottenwood Creek
Rubes Creek
Rubes Creek Tributary
Sewell Mill Creek
Smyrna Branch
Sope Branch
Sope Creek
Sweat Mountain Creek
Sweetwater Creek
Tanyard Creek
Tate Creek
Terrell Branch
Theater Branch
Thompson Creek

Timber Ridge Branch
Trickum Creek
Trickum Creek Tributary
Vinings Branch
Ward Creek
Westside Branch
Wildhorse Creek
Wildwood Branch
Willeo Creek

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

Limited detail 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 Cobb County.

For countywide FIS dated December 16, 2008, the following streams were restudied by detailed methods:

Allatoona Branch
Allatoona Creek
Bishop Creek
Blackjack Creek
Butler Creek
Campground Creek
Concord Creek
Cooper Lake Creek
Due West Creek
Eastside Creek
Elizabeth Branch
Favor Creek
Hope Creek
Laurel Creek
Liberty Hill Branch
Little Allatoona Creek
Little Noonday Creek
Luther Ward Branch
Milam Branch
Mill Creek No. 1
Mill Creek No. 2
Morgan Lake Tributary
Mud Creek
Nickajack Creek
Noonday Creek
Noonday Creek Tributary No. 3
Noonday Creek Tributary No. 7
Noses Creek
Olley Creek
Olley Creek Tributary
Piney Grove Creek
Pitner Creek
Poorhouse Creek
Poplar Creek
Powder Springs Creek
Powers Creek
Proctor Creek
Queen Creek
Robertson Creek
Rottenwood Creek
Rubes Creek
Rubes Creek Tributary
Sewell Mill Creek
Smyrna Branch
Sope Branch
Sope Creek
Tanyard Creek
Theater Branch
Thompson Creek
Trickum Creek
Trickum Creek Tributary
Ward Creek
Wildwood Branch

For countywide FIS December 16, 2008, non-restudied reaches of streams that have been studied by detailed methods were selected for redelineation based on more recent topography. Cobb County provided digital topography for the entire county dated February 2000 and April 2005 (Cobb County, Georgia, 2000 and

2005). This data has a vertical accuracy of 1 foot and horizontal accuracy of 2 feet. The areas that were redelineated are below.

Buttermilk Creek
Chattahoochee River
Clay Branch
Davis Branch
Florence Branch
Gilmore Creek
Gordon Branch
Gordon Creek
Gothards Creek
Lost Mountain Creek
Noonday Creek Tributary No.1
NoondayCreek Tributary No.4
Pine Branch
Pine Creek
Powers Branch
Sweat Mountain Creek
Sweetwater Creek
Terrell Branch
Timber Ridge Branch
Vinings Branch
Westside Branch
Wildhorse Creek
Willeo Creek

For the countywide FIS revised June 18, 2010, detailed flood hazard information was developed for the Chattahoochee River within Cobb County. The Chattahoochee River was revised from Morgan Falls Dam upstream to Buford Dam, a distance of approximately 37 miles.

The revised countywide FIS dated November 2, 2012, incorporates detailed analysis and mapping of Sope Creek and Sewell Mill Creek, as well as revised backwater analysis for several tributaries of Sope Creek and Sewell Mill Creek, including:

Bishop Creek
Blacjack Creek
Campground Creek
Eastside Creek
Elizabeth Branch
Piney Grove Creek
Robertson Creek
Sewell Mill Creek
Sope Branch
Sope Creek
Thompson Creek
Wildwood Branch

For this countywide revision, a new detailed study was used for the following streams.

Chattahoochee River
Concord Creek
Cooper Lake Creek
Favor Creek
Gothards Creek
Harmony Grove Creek
Laurel Creek
Nickajack Creek
Noonday Creek
Noses Creek
Queen Creek
Smyrna Branch
Sweat Mountain Creek
Sweetwater Creek

| | |
|---|---|
| Liberty Hill Branch | Theater Branch |
| Lost Mountain creek | Timber Ridge Branch |
| Milam Branch | Wildhorse Creek |
| Mill Creek No. 2 | Willeo Creek |

For this countywide revision, non-restudied reaches of streams that have been studied by detailed methods were selected for redelineation based on more recent topography. Cobb County provided digital topography for the entire county dated February 2000 and April 2005 (Cobb County, Georgia, 2000 and 2005). This data has a vertical accuracy of 1 foot and horizontal accuracy of 2 feet. The areas that were redelineated are listed in Table 1, "Redelineated streams."

TABLE 1 - REDELINEATED STREAMS

| Stream | Reach Description |
|---|---|
| Buttermilk Creek | From the county boundary to a point approximately 1,440 feet upstream of Anderson Mill Road |
| Chattahoochee River | Entire reach within Cobb County |
| Clay Branch | From the confluence with Buttermilk Creek to a point just downstream of Green Valley Road |
| Davis Branch | From the confluence with Davis Branch to a point approximately 250 feet upstream of Pendley Drive |
| Florence Branch | From the confluence with Powder Springs Creek to a point approximately 1 mile upstream of Macland Road |
| Gilmore Creek | From the confluence with the Chattahoochee River to a point just upstream of Elizabeth Lane |
| Gordon Branch | From the confluence with Gordon Creek to a point just downstream of Gordon Road |
| Gordon Creek | From the county boundary to a point just downstream of Kenneth Lane |
| Gothards Creek | From the confluence with Sweetwater Creek to the county boundary |
| Noonday Creek Tributary No. 1 | From the confluence with Noonday Creek to a point approximately 2,000 feet upstream of Hawkins Store Road |

TABLE 1 - REDELINEATED STREAMS(continued)

| | |
|---|---|
| Noonday Creek Tributary No. 4 | From the confluence with Noonday Creek to a point just downstream of Cobb Parkway |
| Pine Branch | From the confluence with Pine Creek to a point just upstream of Mount Pisgah Lane |
| Pine Creek | From the county boundary to a point just downstream of Dunn Road |
| Powers Branch | From the confluence with the Chattahoochee River to a point just downstream of Windy Hill Road |
| Sweat Mountain Creek | From the confluence with Willeo Creek to a point approximately 900 feet upstream of Wesley Chapel Road |
| Sweetwater Creek | Entire reach within Cobb County |
| Terrell Branch | From the confluence with the Chattahoochee River to a point approximately 3,000 upstream of the confluence with the Chattahoochee River |
| Timber Ridge Branch | From the confluence with Willeo Creek to a point just downstream of Little Willeo Road |
| Vinings Branch | From the confluence with the Chattahoochee River to a point just downstream of Randall Farm Road |
| Westside Branch | From the confluence with Ward Creek to a point just downstream of Maple Avenue |
| Wildhorse Creek | From the confluence with Noses Creek to a point just downstream of New Macland Road |
| Willeo Creek | From the confluence with the Chattahoochee River to a point approximately 1,150 feet upstream of Childers Road |

## 2.2 Community Description

Cobb County is located in northwest Georgia and encompasses an area of approximately 340 square miles. Organized in 1832 from lands of the Cherokee Indian Nation, the county was named for Thomas Welch Cobb, a United States Senator, Congressman, and Superior Court Judge. The City of Marietta, which was settled in 1834 and incorporated in 1852, serves as the county seat and was named after Cobb's wife.

Cobb County is situated west and northwest of the City of Atlanta, and is served by a network of primary and secondary highways, including U.S. Highways 41, 78, and 278; and U.S. Interstates 20, 75, 285, and 575. The county is bordered on the south by Douglas County, on the east by Fulton County, on the west by Paulding County, and on the north by Cherokee and Bartow Counties. The population of Cobb County in 2010 was reported as 688,078 (2010 U.S. Census).

The county lies within the Piedmont Plateau physiographic province. The present tree growth is similar to the original oak-pine forest that once covered the southeastern United States, but is now much less extensive. Dominant oak species are white, common red, scarlet, black, and blackjack. Shortleaf is the chief pine species.

Surface soils are prevailingly sandy, while the subsoils are prevailingly clayey. Red-yellow podzolic soils predominate in the Piedmont Province. In many areas of steep topography, loose rock fragments are scattered over the surface, and outcrops of bedrock are common.

The climate of Cobb County consists of long, warm summers and short, mild winters. Summer temperatures are frequently quite warm, but prolonged periods of hot weather are rare. In winter, freezing temperatures are typically of short duration. On average, July is the warmest month of the year while January is the coldest. The highest recorded temperature was 104 degrees Fahrenheit (ºF) in 1980 and the lowest recorded temperature was -12ºF in 1985.

The average annual rainfall in Cobb County is 54.43 inches. March is typically the wettest month of the year with an average precipitation total of 5.94 inches, while October is usually the driest, with an average precipitation of 3.38 inches (Monthly Averages for Marietta, Georgia, 2005).

## 2.3 Principal Flood Problems

In June 1999, the City of Powder Springs was hit by slow-moving thunderstorms over a three hour period. Approximately 90 homes were

damaged by flood waters, many because of poor drainage, causing approximately $1.2 million in property damage.

In September 2004, rainfall associated with Hurricane Ivan reached Cobb County, resulting in catastrophic flooding in some areas. Six to ten inches of rain fell across most of the county, with much of it falling during one afternoon and evening. Record flooding was reported along many creeks and rivers in the area. Parts of the Chattahoochee River crested at more than eight feet above flood stage, the second highest crest since the Buford Dam was built on the river. Sope Creek in Marietta crested more than five feet above flood stage, more than a foot higher than the previous record high crest. Portions of the Six Flags Amusement Park in the southern portion of the county were inundated by floodwaters, including two roller coasters and approximately 3,000 parking spaces. In all, estimated damages in Cobb County totaled more than $5 million from this storm event.

Several weeks later in September 2004, remnants of Tropical Storm Jeanne also hit Cobb County, causing additional damage. The Chattahoochee River once again rose several feet above flood stage, causing damage to homes, many of which had been impacted by Hurricane Ivan less than two weeks earlier. Estimated property damage in the county from this rainfall event totaled more than $500,000 (National Oceanic and Atmospheric Administration, 2005).

Most recently, extensive flooding occurred in Cobb County following the historical flooding event in September 2009, where parts of Cobb County experienced significant flooding that exceeded the 0.2-percent-annual-chance flooding event (U.S. Geological Survey (USGS), 2009).

Other large floods of note in Cobb County occurred in July 1916, November 1948, February 1961, March 1975, and March 1977.

## 2.4 Flood Protection Measures

Buford Dam, located on the Chattahoochee River approximately 35 miles northeast of Atlanta, was completed by the U.S. Army Corps of Engineers (USACE) in 1957. This dam, which forms Lake Sidney Lanier, has provided substantial flood protection to areas in Cobb County along the Chattahoochee River.

Cobb County installed a levee in 1976 along Sope Creek to protect the Fox Hills subdivision area. The levee was overtopped and severely damaged by the March 1977 flood and no longer provides any flood protection.

The County has a floodplain zoning ordinance that prohibits new development in floodprone areas. The ordinance also requires erosion and sediment runoff control from construction areas, and controls increases in runoff due to construction.

During the 1950s, the U.S. Soil Conservation Service (SCS) completed five Floodwater Retarding Structures in the Noonday Creek basin. These included Floodwater Retarding Structure No. 4 on Noonday Creek Tributary No. 1, Floodwater Retarding Structure No. 9 on Noonday Creek Tributary No. 8, Floodwater Retarding Structure No. 15 on Noonday Creek Tributary No. 7, Floodwater Retarding Structure No. 16 on Noonday Creek No. 5, and Floodwater Retarding Structure No. 17 on Tate Creek. A total of 14 structures were originally planned, but none of the remaining floodwater retarding structures have been built. In addition to the Floodwater Retarding Structures, extensive channel improvements were performed during the 1950s on Noonday Creek and all major tributaries (U.S. Department of Agriculture, 1976).

In December 1964, a reconnaissance report for flood control on Sweetwater Creek in and near the City of Austell, Georgia was completed. A system of levees was considered for protection of the urban area, but the annual cost of the work would have exceeded the annual benefits, and, therefore, it was not recommended. There are no proposed or existing flood control measures for Sweetwater Creek.

The Chastain Meadows Regional Stormwater Facility is an earthen embankment with no permanent pool. Smaller storm events pass through the embankment via a multi stage weir structure and corresponding box culverts, while higher flow events pass over a section of the embankment that is armored to allow safe overtopping. The primary purpose of the facility is to reduce flood discharges downstream of the facility to decrease downstream flooding and to provide channel protection.

## 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.

## 3.1 Hydrologic Analyses

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

**Initial Countywide Analyses**

Discharge-frequency relationships for Noonday Creek Tributary No. 4 and Tate Creek were determined using the HEC-1 computer program (USACE, 1985). This method was used because of several floodwater retarding structures along these streams. Runoff hydrographs entered into the HEC-1 models were developed according to methods outlined by the USGS (USGS, 1986).

Discharge – frequency relationships for Rottenwood Creek upstream of Interstate 75, Olley Creek downstream of Hill Street, Noonday Creek, Little Noonday Creek, Noonday Creek tributary No.3 Rubes Creek, Trickum Creek, Buttermilk Creek, Westside Branch, and Butler Creek, approximately one –half mile downstream of Mack Dobbs Road, were determined using regional regression equations developed for the metropolitan Atlanta area by the USGS (Reference). Drainage basin areas were planimetered from topographic maps (Reference).

Discharge - frequency relationships for Tate Creek, Noonday Creek Tributary No.4, Noonday Creek Tributary No.7, and Sope Creek were determined using the HEC-1 computer program (Reference 12). This method was used because several floodwater retarding structures are located along these streams. Runoff hydrographs entered into the HEC-1 were developed according to methods outlined by the USGS (References) except on Noonday Creek Tributary No.7 at Bozeman Lake Dam. Runoff hydrographs at the dams were taken from a flood event report (Reference 14), and from information provided by Cobb County.

Discharge-frequency relationships for Sweetwater Creek were based on statistical analyses of the peak flows, covering 42 years of record at the Austell gaging station, USGS Station No. 2-3370. This analyses followed the log-Pearson Type III method (USGS, 1982).

Discharge-frequency relationships for the Chattahoochee River were determined using three separate hydrologic analyses, and using separate procedures to study the effects of Peachtree Creek and Sweetwater Creek. Although the flows at Vinings are highly regulated by Buford Dam, the first approach consisted of an analytical curve (log-Pearson Type III distribution) using 24 years of gage records available at the Vinings gage since operation of Buford Dam began, and a regional skew of zero that fitted the plotted data and

was adopted for this study (USGS, 1982). The March 1977 flood, which had the highest observed discharge (28,900 cubic feet per second (cfs) since operation of Buford Dam began, would be approximately a 5.6-percent-annual-chance flood on this curve.

As part of the second set of analyses, discharge frequency for the 410-square-mile uncontrolled area above the gage was computed using equations from a USGS report (USGS, 1983), with allowances for Buford Dam power releases. Since this method is not recommended for areas larger than 100 square miles, it was used only as an alternate method for comparison purposes.

The third set of hydrologic analyses consisted of a comparison of pre- to post-Buford Dam discharges. This comparison was carried out by computing a frequency curve for natural conditions using only the data observed before Buford operations began.

In conjunction with the gage analyses, the contribution of tributary flow to flood peaks in the river was estimated. The March 1977 and 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 in the City of Atlanta at the Northside Drive gage was routed to the river and increased by the drainage area ratio to estimate Peachtree Creek flow at its mouth. This hydrograph was then added to the Vinings hydrograph, which had been lagged in time to allow for distance between the two points. This gaged an estimate of the total flow in the Chattahoochee River at the confluence of Peachtree Creek.

A similar procedure was followed at Sweetwater Creek. Sweetwater Creek characteristically peaks later than the Chattahoochee River. The Sweetwater Creek hydrographs are flatter than those of Peachtree Creek, which causes their effect on the river to be more consistent and probably 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 frequency discharges at the upper and lower limits of the restudy were left unchanged, but were transitioned within the reach to incorporate the revised frequency curve at the Vinings gage.

Frequency discharges for points between the gage stations were estimated by prorating the difference in adjacent frequency curves by the drainage area ratio. One exception to this was discharge estimates at Marietta Boulevard (downstream of Vinings gage), which included the flow from Peachtree Creek.

Discharges at Marietta Boulevard were obtained using runoff rates computed from the local contribution between the Norcross and Vinings gages, which were higher than those obtained for the local contribution between 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.

Discharge-frequency relationships for the following streams were determined using regional regression equations (USGS, 1976) with modifications for urban areas (USGS, 1974):

Buttermilk Creek
Clay Branch
Davis Branch
Florence Branch
Gilmore Creek
Gordon Branch
Gordon Creek
Gothards Creek
Harmony Grove Creek
Lost Mountain Creek
Noonday Creek Tributary No. 1
Noonday Creek Tributary 6
Pine Branch
Pine Creek
Powers Branch
Sweat Mountain Creek
Terrell Branch
Timber Ridge Branch
Vinings Branch
Wildhorse Creek
Willeo Creek

**Revised Countywide Analyses**

For the revised countywide FIS dated December 16, 2008 update of the hydrologic model (HEC-1) (USACE, 1998) representing existing conditions and future conditions were performed for the following streams:

Allatoona Branch
Allatoona Creek
Butler Creek
Due West Creek
Little Allatoona Creek
Little Noonday Creek
Luther Ward Branch
Mill Creek No. 1
Morgan Lake Tributary
Mud Creek
Noonday Creek
Noonday Creek Tributary No. 3
Noonday Creek Tributary No. 7
Noses Creek
Olley Creek
Olley Creek Tributary
Powder Springs Creek
Proctor Creek
Tanyard Creek
Ward Creek

New hydrologic models (HEC-1) (USACE, 1998) representing both existing and future conditions were created for the following watersheds: Nickajack Creek (Concord Creek, Cooper Lake Creek, Favor Creek, Laurel Creek, Liberty Hill Branch, Milam Branch, Mill Creek No. 2, Nickajack Creek, Queen Creek, Smyrna Branch, and Theater Branch); Rottenwood Creek (Hope Creek, Poorhouse Creek, Poplar Creek, Powers Creek, and Rottenwood Creek); Sope Creek (Bishop Creek, Blackjack Creek, Campground Creek, Eastside Creek, Elizabeth Branch, Piney Grove Creek, Robertson Creek, Sewell Mill Creek, Sope Branch, Sope Creek, Thompson Creek, and Wildwood Branch); and

Rubes Creek (Rubes Creek, Rubes Creek Tributary, Trickum Creek, and Trickum Creek Tributary). The revised hydrology was used as input to the HEC-RAS hydraulic models (USACE, 2003). A new hydrologic model (HEC-HMS version 3.1) (USACE, 2006) was developed for Pitner Creek.

The 24-hour rainfall depths for the 50-, 20-, 10-, 2-, 1-, and 0.2-percent-annual-chance frequency storms were obtained from the Georgia Stormwater Management Manual (Atlanta Regional Commission, 2003). The 0.2-percent-annual-chance, 24-hour precipitation depth was determined by graphically extrapolating the 24-hour depths presented in U.S. Weather Bureau's Technical Paper 40 (TP-40) (U.S. Weather Bureau, 1961). Precipitation was distributed using the SCS Type II Distribution.

Rainfall was converted to runoff utilizing the Curve Number (CN) methodology documented in TR-55, Urban Hydrology for Small Watersheds (Natural Resources Conservation Service, 1986). CNs were based on hydrologic soil type provided by the Natural Resources Conservation Service (NRCS) and existing and future land-use data were provided by the Cobb County Water System (CCWS) and Atlanta Regional Commission, with equivalent land-use descriptions between the two sources defined (Atlanta Regional Commission, Atlanta Regional Information System).

The time of concentration (Tc) was determined for each sub-basin using SCS methods (NRCS, 1986). Channelized flow was calculated using flow path length, slope, and ground cover (Manning's "n" value). CCWS 2-foot contour topography (Cobb County, Georgia, 2000 and 2005) and field observations were used to define typical channel geometry, separating the open channel flow into two segments: a tributary channel from the end of shallow concentrated flow to the receiving stream; and the receiving stream. Adding the travel times provided the time of concentration for the sub-basin. The time of concentration was then used to calculate the lag time, which has a significant effect on each sub-basin hydrograph.

Hydrograph routing to account for the attenuation of flows in open-channel segments was performed using the Muskingum-Cunge routing technique as outlined in the HEC-1 Users Manual (USACE, 1990). This method utilizes an 8-point cross section with its associated channel slope, length, and Manning's "n" values. The variables used in the Muskingum-Cunge method are determined by HEC-1 (USACE, 1998) using the input of the channel geometry and the hydrograph routed through the channel. These input parameters were derived using 2-foot topography and aerial photography; stream walk data; and USGS quadrangle maps (Cobb County, Georgia, 2000 and 2005; Woolpert Consultants, 1988; USGS, 1954). Channel routing simulates the in-stream storage and effects on travel time and lead to sub-basin hydrograph attenuation. Therefore, cross-section shapes were selected at points that were representative

of the routing reach, such that when combined with an average reach slope, the attenuation would be simulated with reasonable accuracy.

For the revised countywide FIS dated June 18, 2010, new hydrologic and hydraulic data were prepared for the Chattahoochee River, between Buford Dam and the crossing with Medlock Bridge at Norcross. Revised discharge values resulted in lower water-surface elevations (WSELs) for much of the area between the noted upstream and downstream study limits. WSELs between Buford Dam and Morgan Falls Dam were redelineated based on more recent topography (Fulton County, Georgia, 2006).

Buford Dam (constructed in 1957) regulates the surface runoff generated in the upper 1,040 square miles of the Chattahoochee River watershed. The maximum peak flow at Norcross over the last 50 years has been 13,200 cfs.

A calibrated HEC-1 model for the 130-square mile watershed downstream of Buford Dam and upstream of Norcross, Georgia, was developed (Braswell, May 2007). The calibration and verification of the model involved the identification and collection of rainfall and runoff data for four storm events that are considered extreme events for the 130-square-mile watershed. The watershed downstream of Buford Dam was divided into sub-basins to account for the geographic distribution of the available precipitation and stream flow data and to aid in the development of the hydrographs. Runoff hydrographs from each sub-basin were generated using the SCS CN method and the USACE HEC-1 flood hydrograph computer program (USDA, 1972; and USACE, 1998). The HEC-1 model was calibrated by determining lag times and CNs for the sub-basins that produced flood hydrographs most consistent with observed flows.

If possible, Buford Dam releases are restricted to a single low level turbine during major storm events as outlined in the reservoir regulation manual. Under these operating conditions, the resulting1-percent annual-chance base flow from the dam is 620 cfs, and this outflow was added to sub-basin hydrographs.

The calibrated and verified basin models were used to simulate the 1-percent-annual-chance flood event, as well as the 10-, 2- and 0.2-percent-annual-chance events. An SCS Type II storm distribution for a 24-hour duration was used along with the geographically adjusted rainfall amounts from TP 40 (U.S. Weather Bureau, 1961) for each storm. As with the calibration events, runoff hydrographs for each of the sub-basins were generated with the HEC-1 model and then routed to the Norcross gage using the dynamic routing option in HEC-RAS (USACE, 2005). The resulting 1-percent-annual-chance discharge at the Norcross gage was 14,480 cfs. The 10-, 2- and 0.2-percent-annual-chance discharges were 8,250, 13,342 and 18,159 cfs, respectively (Braswell, July 2007).

WSELs for the revised study area of the Chattahoochee River were determined by re-running the previously effective (HEC-2) model with the updated discharge values (USACE, 1991). Floodway encroachment stations remain the same as they were with the previously effective model; however, the HEC-2 floodway model was re-run to reflect the revised discharge values. The water surface at Morgan Falls has been mapped to an elevation of 854 feet. This represents the Morgan Falls spillway elevation and the starting WSEL of the previously effective HEC-2 model.

For the revised countywide FIS TBD, new hydrologic and hydraulic data were prepared for both Sope Creek and Sewell Mill Creek using a combination of gage analysis and urban regression analysis. Peak discharges for Sope Creek, calculated at USGS Gage number 02335870 near Marietta, were transferred to ungaged locations downstream of the confluence with Sewell Mill Creek. For both Sope Creek upstream of the confluence with Sewell Mill Creek and for Sewell Mill Creek, urban regression equations (USGS, 1999) were used to determine peak discharges at ungaged locations. The revised analysis resulted in significant reductions in peak discharges throughout the area of revision.

The previously effective HEC-RAS models for Sope Creek and Sewell Mill Creek were updated with the revised hydrology. Additionally, the floodway was adjusted and both the 1- and 0.2-percent-annual-chance floodplains were redelineated on Cobb County's 2005, 2-foot equivalent aerial topography. This resulted in significant decreases in WSELs.

For the revised countywide FIS dated December 16, 2008, the streams studied by limited detailed methods used the USACE's HEC-HMS version 3.1 computer program to compute the peak discharges for the selected flood recurrence intervals (USACE, 2006). Cobb County provided digital topographic data, which had a vertical accuracy of 1 foot for the portions of the watersheds contained within the county boundary. For the portions of the watersheds contained outside of the county boundaries, USGS 30-meter resolution Digital Elevation Models (DEMs) were gathered from the National Elevation Dataset (NED). The county's digital topographic data was then merged with the NED data to produce the working DEM that was used in the hydrologic analysis. The ArcHydro Toolset computer program (ESRI, 2005) was then used to preprocess the working DEMs. The synthetic unit hydrograph method developed by the NRCS was selected as the approach to transform rainfall excess into surface runoff. The 10-, 2-, 1-, and 0.2-percent storm depth-duration of precipitation for the study watersheds was estimated from the isohyetal maps in the National Weather Service publications Rainfall Frequency Atlas of the United States, Technical Paper No. 40 and Technical Memorandum HYRDRO-35, Five to Sixty Minute Precipitation of the Eastern and Central United States (U.S. Weather Bureau, 1961; USACE, 2003). Rainfall loss was calculated by the NRCS CN method, which is built into the HEC-HMS program.

For this current countywide revision, discharge-frequency relationships for Sweetwater Creek were based on statistical analyses of the peak flows, covering 72 years of record at the Austell gaging station, USGS Station No. 2-3370, and flood frequency at nearby ungaged streams. The correction factor at each of the 1982 gages for the 25-year storm was validated by using the rural regression equation (Region 2).

This revision to the FIS incorporates a new detailed study for the Chattahoochee River, from Buford Dam downstream to the headwater of West Point Lake just above the Heard County and Troup County lines. Flood discharges in the Chattahoochee River Basin study area were determined based on a combination of methods. For the reach from the Roswell gage downstream to the headwater of West Point Lake, discharges were determined based on a logarithmic discharge – area relationship derived based on flood-frequency analysis at selected gaging stations. Since Lake Lanier reached its normal elevation in 1959, flood-frequency analysis was performed for six selected gages that have a minimum of 10 years of flood records, from 1960 to 2009. Since the logarithms of the peak discharges were reasonably consistent with Pearson Type III distribution, a flood-frequency analysis was performed based on Bulletin 17B guidelines (Interagency Advisory Committee on Water Data [IACWD], 1982).

Peak discharge-drainage area relationships for the streams studied by detailed methods are shown in Table 2, “Summary of Discharges.”

## TABLE 2 - SUMMARY OF DISCHARGES

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance Existing | 1-Percent-Annual-Chance Future | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| ALLATOONA BRANCH | | | | | | |
| At confluence with Allatoona Creek | 0.60 | 590 | 920 | 1,067 | 1,287 | 1,393 |
| At Holland Road | 0.27 | 365 | 541 | 611 | 670 | 762 |
| ALLATOONA CREEK | | | | | | |
| At confluence with Allatoona Lake | 28.20 | 5,093 | 8,402 | 9,610 | 11,742 | 13,603 |
| Just upstream of confluence with Little Allatoona Creek | 19.80 | 4,713 | 7,435 | 8,367 | 9,856 | 11,254 |
| Downstream of County Line Road | 18.69 | 4,971 | 7,759 | 8,775 | 10,347 | 11,831 |
| At Mars Hill Road Northwest/(Downstream Crossing) | 17.10 | 4,875 | 7,595 | 8,630 | 10,207 | 11,660 |
| At Stilesboro Road (Downstream) | 14.60 | 5,268 | 8,345 | 9,727 | 11,587 | 13,095 |
| Downstream of Due West Creek | 12.72 | 3,770 | 5,845 | 6,808 | 8,038 | 8,898 |
| At Hadaway Road Northwest | 9.20 | 3,777 | 5,865 | 6,830 | 8,061 | 8,917 |
| At Burnt Hickory | 7.32 | 3,395 | 5,122 | 5,890 | 6,922 | 7,654 |
| At Due West Road Northwest | 4.50 | 2,617 | 3,996 | 4,630 | 5,632 | 6,231 |
| At Old Mountain Road | 3.58 | 2,399 | 3,622 | 4,166 | 5,093 | 5,669 |
| At Mars Hill Road Northwest (upstream crossing) | 2.10 | 1,312 | 2,051 | 2,385 | 3,230 | 3,469 |
| At Hermitage Drive | 1.23 | 715 | 1,238 | 1,454 | 1,888 | 2,023 |
| At Holland Road | 0.64 | 354 | 536 | 606 | 700 | 762 |
| BISHOP CREEK | | | | | | |
| Approximately 190 feet Upstream of Indian Hills Trail Northeast | 1.95 | 2,152 | 3,755 | 4,400 | 4,488 | 6,603 |
| Approximately 1,530 feet downstream of Fairfield Drive Northeast | 0.40 | 641 | 1,027 | 1,192 | 1,214 | 1,622 |

## TABLE 2 - SUMMARY OF DISCHARGES - continued

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance Existing | 1-Percent-Annual-Chance Future | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| BLACKJACK CREEK | | | | | | |
| Approximately 580 feet upstream of Lookhead School Road | 2.69 | 2,908 | 5,085 | 6,073 | 6,644 | 8,481 |
| Approximately 550 feet upstream of Allgood Road Northeast | 1.11 | 1,313 | 2,201 | 2,663 | 2,938 | 3,775 |
| Approximately 360 feet upstream of Tappahannock Trail | 0.21 | 391 | 632 | 743 | 782 | 1,025 |
| BUTLER CREEK | | | | | | |
| At Nance Road | 9.28 | 3,566 | 5,144 | 5,721 | 6,231 | 7,364 |
| At Cobb Parkway | 7.61 | 3,536 | 5,028 | 5,668 | 6,198 | 7,222 |
| At Mack Dobbs Road Northwest | 4.00 | 2,744 | 3,639 | 4,290 | 4,646 | 5,739 |
| At Pine Mountain Road Northwest | 1.80 | 1,979 | 2,835 | 3,176 | 3,308 | 3,859 |
| BUTTERMILK CREEK | | | | | | |
| At confluence with Sweetwater Creek | 6.30 | 2,459 | 3,489 | 3,929 | * | 5,015 |
| At U.S. Highway 78/278/ Bankhead Highway Northwest | 5.60 | 2,207 | 3,151 | 3,555 | * | 4,559 |
| At Norfolk Southern Railway | 5.00 | 1,988 | 2,854 | 3,228 | * | 4,159 |
| At Clay Road Southwest | 2.30 | 1,121 | 1,649 | 1,885 | * | 2,475 |
| At CSX Transportation | 0.70 | 479 | 728 | 846 | * | 1,141 |
| CAMPGROUND CREEK | | | | | | |
| Approximately 790 feet upstream of Sope Creek Drive | 0.84 | 792 | 1,292 | 1,547 | 1,704 | 2,200 |
| At Lawrence Mill Run | 0.57 | 628 | 1005 | 1,151 | 1,275 | 1,576 |
| Approximately 320 feet upstream of Robinson Road Northeast | 0.30 | 452 | 697 | 809 | 902 | 1,088 |
| At Roswell Road | 0.07 | 218 | 324 | 370 | 428 | 485 |

*Data not available

## TABLE 2 - SUMMARY OF DISCHARGES - continued

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance Existing | 1-Percent-Annual-Chance Future | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| CHATTAHOOCHEE RIVER | | | | | | |
| Approximately 550 feet downstream of the confluence with Sandy Creek | 1,653 | 28,921 | 38,007 | 41,867 | * | 51,043 |
| Approximately 720 upstream of Atlanta Road | 1,586 | 27,368 | 35,872 | 39,474 | * | 48,006 |
| At interstate Highway 75 | 1,447 | 24,040 | 31,295 | 34,342 | * | 41,494 |
| CLAY BRANCH | | | | | | |
| At confluence with Buttermilk Creek | 2.10 | 1,284 | 1,832 | 2,075 | * | 2,667 |
| At Clay Road Southwest | 0.80 | 643 | 940 | 1,077 | * | 1,411 |
| CONCORD CREEK | | | | | | |
| At confluence with Nickajack Creek | 1.81 | 1,557 | 2,335 | 2,480 | * | 3,118 |
| Approximately 696 feet upstream of Hurt Road | 0.92 | 1,515 | 2,262 | 2,400 | * | 3,011 |
| At East West Connector | 0.75 | 1,176 | 1,815 | 1,947 | * | 2,465 |
| At Hicks Road Southwest | 0.61 | 890 | 1,299 | 1,382 | * | 1,711 |
| COOPER LAKE CREEK | | | | | | |
| At confluence with Nickajack Creek | 1.86 | 1,800 | 3,021 | 3,288 | * | 4,382 |
| Approximately 1620 feet upstream of Derby Lane | 1.62 | 1,731 | 2,855 | 3,089 | * | 4,049 |
| Approximately 120 feet upstream of Gann Road | 1.20 | 1,589 | 2,517 | 2,719 | * | 3,517 |
| DAVIS BRANCH | | | | | | |
| At confluence with Pine Creek | 0.20 | 315 | 450 | 514 | * | 666 |
| At Old Alabama Road Southwest | 0.10 | 254 | 363 | 414 | * | 536 |

*Data not available

## TABLE 2 - SUMMARY OF DISCHARGES - continued

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance Existing | 1-Percent-Annual-Chance Future | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| DUE WEST CREEK | | | | | | |
| At confluence with Allatoona Creek | 3.40 | 1,494 | 2,542 | 3,010 | 3,665 | 4,153 |
| At Acworth Due West Road | 3.08 | 1,534 | 2,599 | 3,066 | 3,723 | 4,176 |
| At Paul Samuel Road Southwest | 2.40 | 1,458 | 2,509 | 2,928 | 3,541 | 3,940 |
| EASTSIDE CREEK | | | | | | |
| Just upstream of Indian Hills Golf Cart Path | 0.40 | 359 | 961 | 1,117 | 1,087 | 1,550 |
| At Clubland Drive | 0.27 | 571 | 898 | 1,044 | 1,077 | 1,410 |
| ELIZABETH BRANCH | | | | | | |
| Approximately 640 feet downstream of Allgood Road Northeast | 1.18 | 1,986 | 2,981 | 3,364 | 3,428 | 4,359 |
| Approximately 170 feet upstream of U.S. Interstate 75/ State Highway 401 | 0.81 | 1,797 | 2,489 | 2,770 | 2,770 | 3,448 |
| FAVOR CREEK | | | | | | |
| At confluence with Nickajack Creek | 1.42 | 318 | 524 | 577 | * | 796 |
| Approximately 300 feet upstream of Church Road | 0.85 | 1,020 | 1,634 | 1,766 | * | 2,286 |
| Approximately 2,100 feet upstream of Smyma - Powder Springs Road Southwest | 0.67 | 838 | 1,310 | 1,417 | * | 1,815 |
| FLORENCE BRANCH | | | | | | |
| At confluence with Powder Springs Creek | 4.50 | 1,109 | 1,770 | 2,064 | * | 2,845 |
| At Shipp Road Southwest | 3.50 | 958 | 1,530 | 1,789 | * | 2,469 |
| At Moon Road Southwest | 2.60 | 805 | 1,291 | 1,513 | * | 2,094 |
| At Gaydon Road | 2.20 | 727 | 1,167 | 1,370 | * | 1,901 |
| At Macland Road/State Highway 360 | 1.30 | 529 | 859 | 1,016 | * | 1,422 |
| GILMORE CREEK | | | | | | |
| At confluence with Chattahoochee River | 1.60 | 954 | 1,397 | 1,597 | * | 2,092 |
| At Woodland Brook Drive Northwest | 1.30 | 849 | 1,245 | 1,425 | * | 1,869 |

## TABLE 2 - SUMMARY OF DISCHARGES (continued)

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance Existing | 1-Percent-Annual-Chance Future | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| GORDON BRANCH | | | | | | |
| At confluence with Gordon Creek | 0.30 | 382 | 546 | 623 | * | 806 |
| At South Gordon Road | 0.10 | 208 | 298 | 342 | * | 446 |
| GORDON CREEK | | | | | | |
| At county boundary | 2.40 | 1,375 | 1,962 | 2,220 | * | 2,852 |
| At South Dillon Road Southwest | 1.60 | 1,133 | 1,612 | 1,824 | * | 2,341 |
| At South Gordon Road Southwest | 1.00 | 890 | 1,256 | 1,421 | * | 1,815 |
| At Kenneth Lane Southwest | 0.40 | 481 | 683 | 776 | * | 998 |
| GOTHARDS CREEK | | | | | | |
| At confluence with Sweetwater Creek | 23.00 | 2,200 | 4,110 | 5,060 | * | 7,880 |
| HARMONY GROVE CREEK | | | | | | |
| At confluence with Willeo Creek | 1.40 | 580 | 1,264 | 1,404 | * | 1,977 |
| At Long Lake Dr | 1.37 | 850 | 1,401 | 1,514 | * | 2,008 |
| Approximately 436 feet upstream of Long Lake Dr | 1.12 | 535 | 904 | 984 | * | 1,371 |
| Approximately 351 feet Downstream of MountainTrce | 0.79 | 465 | 755 | 816 | * | 1,105 |
| Approximately 463 feet upstream of Mountain Creek Dr | 0.69 | 354 | 575 | 624 | * | 871 |
| Approximately 110 feet Upstream of Johnson Ferry Road | 0.41 | 37 | 94 | 124 | * | 432 |
| HOPE CREEK | 1.30 | 1,650 | 2,450 | 2,800 | 2,930 | 3,650 |
| At Confluence with Rottenwood Creek | | | | | | |
| At Interstate 75 | 0.84 | 1,100 | 1,590 | 1,790 | 1,920 | 2,300 |
| Approximately 1290 feet Upstream of south Marietta parkway South State Highway 120 | 0.55 | 860 | 1,240 | 1,400 | 1,490 | 1,790 |

*Data not available

## TABLE 2 SUMMARY OF DISCHARGES (continued)

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance Existing | 1-Percent-Annual-Chance Future | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| LAUREL CREEK | | | | | | |
| At confluence with Nickajack Creek | 3.67 | 517 | 1,100 | 1,481 | * | 2,892 |
| Approximately 360 feet upstream of Laurel Bridge | 2.83 | 1,729 | 2,871 | 3,052 | * | 3,660 |
| Approximately 160 feet upstream of Copper Lake Road Southeast | 2.74 | 2,111 | 3,357 | 3,610 | * | 4,605 |
| Approximately 940 feet upstream of South Cobb Drive Southeast/State Highway 280 | 1.82 | 1,213 | 1,813 | 1,952 | * | 2435 |
| Approximately 65 feet upstream of Drawbridge Road | 1.46 | 962 | 1,325 | 1,393 | * | 1,642 |
| At Forest Drive southeast | 1.1 | 1,242 | 1,991 | 2,152 | * | 2,799 |
| At Lee Street Southeast | 0.23 | 162 | 268 | 292 | * | 385 |
| LIBERTY HILL BRANCH | | | | | | |
| At confluence with Queen Creek | 0.48 | 372 | 661 | 726 | * | 988 |
| At Hickory Trail Southeast | 0.26 | 173 | 308 | 338 | * | 460 |
| Approximately 200 feet upstream of Blackhawk Trail Southeast | 0.16 | 91 | 167 | 184 | * | 253 |
| LITTLE ALLATOONA CREEK | | | | | | |
| At Old Stilesboro Road Northwest | 5.90 | 2,182 | 3,119 | 3,546 | 4,206 | 4,591 |
| At Pitner Road Northwest | 4.50 | 1,451 | 2,198 | 2,603 | 3,303 | 3,757 |
| At Collins Road | | 1,365 | 2,213 | 2,586 | 3,215 | 3,699 |
| At Burnt Hickory Road Northwest | 1.10 | 649 | 1,125 | 1,472 | 2,005 | 2,213 |

*Data not available

## TABLE 2 - SUMMARY OF DISCHARGES (continued)

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance Existing | 1-Percent-Annual-Chance Future | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| LITTLE NOONDAY CREEK | | | | | | |
| At confluence with Noonday Creek | 7.20 | 4,901 | 6,802 | 7,724 | 7,907 | 9,474 |
| At Canton Road Northeast/ State Highway 754 | 6.53 | 4,823 | 6,700 | 7,587 | 7,754 | 9,386 |
| At Blackwell Road Northeast | 5.21 | 4,255 | 6,140 | 6,981 | 7,147 | 8,764 |
| At Worley Drive Northeast | 4.75 | 4,187 | 6,146 | 6,982 | 7,159 | 8,757 |
| At Piedmont Road Northeast | 1.85 | 2,259 | 3,243 | 3,624 | 3,761 | 4,379 |
| At Liberty Hill Road Northeast | 0.89 | 878 | 1,265 | 1,417 | 1,447 | 1,742 |
| LOST MOUTAIN CREEK | | | | | | |
| At confluence with Wildhorse Creek | 1.00 | 754 | 1,201 | 1,311 | * | 1,805 |
| Approximately 734 Feet upstream os lost mountain | 0.67 | 676.8 | 1,030 | 1,099 | * | 1,373 |
| LUTHER WARD BRANCH | | | | | | |
| At confluence with Mud Creek | 5.70 | 2,425 | 4,081 | 4,847 | 5,549 | 6,394 |
| At Villa Rica Road Southwest | 3.00 | 1,489 | 2,890 | 3,422 | 3,912 | 4,451 |
| At Luther Ward Road Southwest | 2.30 | 1,541 | 2,404 | 2,860 | 3,404 | 3,879 |
| MILAM BRANCH | | | | | | |
| At confluence with Queen Creek | 1.00 | 1,076 | 1,757 | 1,891 | * | 2,447 |
| Approximately 125 feet upstream of Sheraton Way Southwest | 0.75 | 763 | 1,230 | 1,327 | * | 1,725 |
| At Dodgen Road | 0.62 | 641 | 1,042 | 1,129 | * | 1,478 |
| At Lane Drive | 0.29 | 304 | 492 | 534 | * | 698 |
| At Gamer Road | 0.19 | 237 | 371 | 400 | * | 514 |
| MILL CREEK No. 1 | | | | | | |
| At confluence with Powder Springs Creek | 2.30 | 1,251 | 2,011 | 2,338 | 2,794 | 3,026 |
| At Wright Road Southwest | 1.90 | 1,121 | 1,804 | 2,078 | 2,516 | 2,693 |
| At Poplar Springs Road Southwest | 0.50 | 452 | 697 | 796 | 950 | 1,016 |

*Data not available

## TABLE 2 - SUMMARY OF DISCHARGES (continued)

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance | | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| | | | | Existing | Future | |
| MILL CREEK No. 2 | | | | | | |
| At confluence with Nickajack Creek | 2.30 | 1,392 | 2,773 | 3,074 | * | 4,315 |
| At Cindys Lake Dam | 2.19 | 1,662 | 3,013 | 3,323 | * | 4,521 |
| At Mill Creek Dam | 1.70 | 2,335 | 3,885 | 4,227 | * | 5,590 |
| At Hicks Road Southwest | 0.58 | 797 | 1,315 | 1,428 | * | 1,879 |
| MORGAN LAKE TRIBUTARY | | | | | | |
| At confluence with Little Noonday Creek | 2.40 | 1,767 | 2,554 | 2,939 | 2,960 | 3,806 |
| At Piedmont Road | 0.81 | 1,585 | 2,284 | 2,611 | 2,637 | 3,419 |
| Just upstream of Morgan Lake Drive Northeast | 0.58 | 422 | 552 | 662 | 664 | 983 |
| MUD CREEK | | | | | | |
| At confluence with Noses Creek | 16.40 | 5,423 | 8,354 | 9,668 | 11,015 | 12,825 |
| Just upstream of confluence with Luther Ward Branch | 9.40 | 2,986 | 4,452 | 4,975 | 5,606 | 6,497 |
| At Villa Rica Road | 6.80 | 2,728 | 4,177 | 4,628 | 5,154 | 5,960 |
| At West Sandtown Road Southwest | 5.30 | 1,869 | 3,101 | 3,485 | 3,815 | 4,327 |
| At Old Dallas Road Southwest | 4.40 | 1,869 | 3,101 | 3,485 | 3,815 | 4,327 |
| At Burnt Hickory Road Southwest | 1.50 | 908 | 1,402 | 1,608 | 1,828 | 2,049 |

*Data not available

## TABLE 2 - SUMMARY OF DISCHARGES (continued)

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance | | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| | | | | Existing | Future | |
| NICKAJACK CREEK | | | | | | |
| At confluence with Chattahoochee River | 35.68 | 8,489 | 14,014 | 15,314 | * | 21,306 |
| Approximately 3,100 feet upstream of Discovery Boulevard Southeast | 31.30 | 8,046 | 13,260 | 14,487 | * | 20,242 |
| Approximately 625 feet upstream of Veterans memorial highway Southeast | 30.50 | 8,271 | 13,645 | 14,927 | * | 20,525 |
| At Buckner Road southeast | 28.91 | 8,582 | 13,779 | 15,124 | * | 20,766 |
| At confluence of Laurel Creek | 23.10 | 7,676 | 12,601 | 13,884 | * | 19,261 |
| Approximately 450 feet upstream of Norfolk South Railway | 20.74 | 6,769 | 11,946 | 13,142 | * | 18,106 |
| Approximately 375 feet Upstream of Copper Lake Road | 18.47 | 6,155 | 11,236 | 12,394 | * | 17,200 |
| Approximately 575 feet downstream of Fontaine Road | 15.80 | 5,513 | 9,466 | 10,380 | * | 14,119 |
| Approximately 275 feet downstream of East –West Connector | 11.41 | 4,838 | 7,760 | 8,376 | * | 11,059 |
| Approximately 500 feet upstream of Hurt Road | 6.78 | 4,138 | 6,693 | 7,216 | * | 9,519 |
| Approximately 400 feet upstream of Church Road | 3.42 | 2,832 | 4,563 | 4,972 | * | 6,694 |
| Approximately 750 feet upstream of Smyma powder Spring road Southeast | 1.9 | 1,694 | 2,748 | 2,975 | * | 3,896 |
| Approximately 1,400 feet upstream of Downstream of south Cobb Drive Southeast\State Highway | 0.39 | 408 | 647 | 699 | * | 904 |

*Data not available

## TABLE 2 - SUMMARY OF DISCHARGES (continued)

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance Existing | 1-Percent-Annual-Chance Future | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| NOONDAY CREEK | | | | | | |
| At Shallowford Road Northeast | 34.39 | 9,537 | 13,962 | 15,888 | * | 20,217 |
| At Hawkins Store Road Northeast | 25.10 | 7,965 | 11,156 | 12,399 | * | 15,889 |
| At New Chastain Road Northeast | 22.31 | 8,032 | 11,115 | 14,452 | * | 15614 |
| At Bells Ferry Road Northeast | 17.50 | 5,548 | 7705 | 8,533 | * | 11,583 |
| Approximately 100feet upstream of Lakes Boulevard Northwest | 10.80 | 4,933 | 6,930 | 7,939 | * | 10,415 |
| Just Down Stream of Duncan Road | 7.62 | 3,017 | 4,373 | 4,924 | * | 5,960 |
| Approximately 100 feet downstream of Roberts Boulevard Northwest | 5.78 | 2,561 | 3,901 | 4,284 | * | 5,070 |
| Approximately 500 feet downstream of Ernest Barrett Parkway Ernest Barrett Parkway | 1.01 | 1,114 | 1,671 | 1,861 | * | 2,256 |
| Approximately 170 feet upstream of New Salem Road | 0.68 | 739 | 1,115 | 1,231 | * | 1,468 |
| NOONDAY CREEK TRIBUTARY NO. 1 | | | | | | |
| Just downstream of Flood Retarding Structure No. 4 | 1.40 | 137 | 210 | 227 | * | 254 |
| At Hawkins Store Road | 1.00 | 386 | 613 | 669 | * | 754 |
| Approximately 1,800 feet upstream of Hawkins Store Road Northeast | 0.90 | 346 | 550 | 600 | * | 675 |
| NOONDAY CREEK TRIBUTARY NO. 3 | | | | | | |
| At confluence with Noonday Creek | 3.90 | 3,762 | 4,998 | 5,482 | 5,979 | 6,403 |

*Data not available

## TABLE 2 - SUMMARY OF DISCHARGES (continued)

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance | | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| | | | | Existing | Future | |
| NOONDAY CREEK TRIBUTARY NO. 3(Continued) | | | | | | |
| At Rock Bridge Road Northeast | 3.70 | 3,762 | 4,998 | 5,482 | 5,979 | 6,403 |
| At Cedarbrook Drive | 3.47 | 3,985 | 5,147 | 5,680 | 6,238 | 6,634 |
| At Piedmont Road Northeast | 3.30 | 3,794 | 4,890 | 5,364 | 5,919 | 6,211 |
| At Kurtz Road Northeast | 2.50 | 3,355 | 4,247 | 4,603 | 5,109 | 5,290 |
| At Mark Avenue Northeast | 1.80 | 2,851 | 3,555 | 3,815 | 4,156 | 4,302 |
| Approximately 1,065 feet upstream of U.S. Interstate 75/State Highway 401/5 | 0.80 | 1,676 | 2,101 | 2,184 | 2,283 | 2,291 |
| NOONDAY CREEK TRIBUTARY NO. 4 | | | | | | |
| At confluence with Noonday Creek | 3.10 | 906 | 1,804 | 2,195 | * | 3,472 |
| About 1,500 feet upstream of mouth | 2.99 | 1,028 | 2,050 | 2,482 | * | 3,900 |
| Just downstream of Laura Lake Dam | 2.23 | 1,374 | 2,685 | 3,243 | * | 5,042 |
| Just upstream of Laura Lake Dam | 2.23 | 1,905 | 3,115 | 3,638 | * | 5,370 |
| NOONDAY CREEK TRIBUTARY NO. 6 | | | | | | |
| Just upstream of Interstate 75 | 1.03 | 339 | 550 | 601 | * | 680 |
| About 1 mile upstream of Interstate 75 | 0.57 | 236 | 408 | 475 | * | 459 |
| NOONDAY CREEK TRIBUTARY NO. 7 | | | | | | |
| At confluence with Noonday Creek | 2.79 | 1,739 | 2,185 | 3,153 | 3,197 | 4,373 |
| At Chastain Road | 1.10 | 480 | 625 | 704 | 724 | 798 |

*Data not available

## TABLE 2 - SUMMARY OF DISCHARGES (continued)

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance | | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| | | | | Existing | Future | |
| NOSES CREEK | | | | | | |
| At confluence with Sweetwater Creek | 48.00 | 6,080 | 10,851 | 11,917 | * | 16,251 |
| At Clay Road Southwest | 46.92 | 6,045 | 10,791 | 11,850 | * | 16,156 |
| At Confluence of Wildhorse Creek | 43.67 | 6,194 | 11,074 | 12,164 | * | 16,595 |
| Approximately 1430 feet upstream of Macedonia Road South West | 37.85 | 6,152 | 10,978 | 12,065 | * | 16,443 |
| At confluence with Mud Creek | 36.17 | 6,331 | 11,361 | 12,507 | * | 17,117 |
| Approximately 1013 feet Downstream of Macland Road | 18.27 | 3,553 | 6,374 | 6,995 | * | 9,434 |
| Approximately 699 feet Downstream of Irwin Road | 8.69 | 1,703 | 3,058 | 3,371 | * | 4,294 |
| Approximately 30 feet downstream of Old Dallas Road | 6.69 | 1,677 | 2,910 | 3,195 | * | 4,007 |
| At Mount Calvary Road | 6.04 | 1,744 | 3,196 | 3,538 | * | 5,011 |
| At Burnt Hickory Road Northwest | 2.40 | 1,796 | 2,857 | 3,132 | * | 4,255 |
| At Kennesaw Avenue Northwest | 1.35 | 1,684 | 2,677 | 2,891 | * | 3,742 |
| OLLEY CREEK | | | | | | |
| At confluence with Sweetwater Creek | 14.33 | 4,060 | 6,350 | 7,430 | 7,880 | 10,350 |
| At Flint Hill Road Southwest | 12.25 | 4,180 | 6,510 | 7,630 | 8,080 | 10,620 |
| At East West Connector | 11.42 | 4,150 | 6,470 | 7,580 | 8,020 | 10,560 |
| At Hurt Road | 9.31 | 4,080 | 6,360 | 7,450 | 7,880 | 10,350 |
| At Callaway Road Southwest | 5.37 | 3,900 | 6,120 | 7,160 | 7,500 | 9,830 |
| Approximately 1,050 feet upstream of Candy Lane Southwest | 4.14 | 3,630 | 5,670 | 6,610 | 6,890 | 9,020 |
| At Cunningham Road | 3.32 | 3,290 | 5,100 | 5,900 | 6,130 | 7,950 |

*Data not available

## TABLE 2 - SUMMARY OF DISCHARGES (continued)

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance | | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| | | | | Existing | Future | |
| OLLEY CREEK (continued) | | | | | | |
| Approximately 1,480 feet upstream of Bellmeade Drive Southwest | 2.41 | 2,950 | 4,460 | 5,150 | 5,360 | 6,810 |
| Downstream of confluence of Olley Creek Tributary | 2.18 | 2,780 | 4,210 | 4,830 | 5,040 | 6,360 |
| Upstream of confluence of Olley Creek Tributary | 1.17 | 1,720 | 2,560 | 2,940 | 3,090 | 3,830 |
| At Carruth Drive | 0.50 | 820 | 1,210 | 1,390 | 1,500 | 1,820 |
| Just downstream of South Cobb Drive Southeast | 0.21 | 330 | 510 | 580 | 580 | 780 |
| OLLEY CREEK TRIBUTARY | | | | | | |
| Approximately 400 feet upstream from confluence of Olley Creek Southwest | 0.85 | 1,122 | 1,678 | 1,921 | 1,980 | 2,526 |
| At Booth Road | 0.74 | 786 | 1,197 | 1,378 | 1,437 | 1,821 |
| Approximately 1,260 feet upstream of Juliet Lane Southwest | 0.20 | 540 | 837 | 969 | 969 | 1,301 |
| PINE BRANCH | | | | | | |
| At Thunderwood Road | 0.50 | 596 | 844 | 957 | * | 1,228 |
| Approximately 2,640 feet upstream of Thunderwood Road Southwest | 0.30 | 473 | 671 | 763 | * | 982 |
| Approximately 4,065 feet upstream of Thunderwood Road Southwest | 0.10 | 267 | 380 | 434 | * | 562 |
| PINE CREEK | | | | | | |
| At Cardell Road Southwest | 2.00 | 1,357 | 1,910 | 2,154 | * | 2,740 |
| At South Gordon Road Southwest | 1.60 | 1,205 | 1,697 | 1,916 | * | 2,440 |
| At Old Alabama Road Southwest | 0.40 | 560 | 791 | 896 | * | 1,147 |
| At Dunn Road Southwest | 0.20 | 307 | 434 | 493 | * | 633 |

*Data not available

## TABLE 2 - SUMMARY OF DISCHARGES (continued)

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance | | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| | | | | Existing | Future | |
| PINEY GROVE CREEK | | | | | | |
| Approximately 2,630 feet upstream of Sewell Mill Creek | 5.41 | 2,889 | 4,546 | 5,308 | 5,348 | 7,484 |
| Approximately 3,050 feet upstream of Casteel Road Northeast | 3.74 | 2,894 | 4,673 | 5,468 | 5,492 | 7,818 |
| At Post Oak Tritt Road | 2.50 | 2,342 | 3,950 | 4,682 | 4,697 | 6,434 |
| Approximately 340 feet upstream of Hembree Road Northeast | 1.98 | 2,198 | 3,859 | 4,540 | 4,557 | 6,350 |
| Approximately 170 feet upstream of Davis Road Northeast | 0.28 | 334 | 507 | 584 | 596 | 782 |
| PITNER CREEK | | | | | | |
| At confluence with Little Allatoona Creek | 1.80 | 1,053 | 1,592 | 1,778 | 2,091 | 2,296 |
| At County Line Road | 1.63 | 936 | 1,465 | 1,638 | 1,934 | 2,174 |
| At Burnt Hickory Road Northwest | 0.90 | 210 | 336 | 373 | 440 | 624 |
| At Brookstone Walk | 0.72 | 88 | 220 | 284 | 392 | 558 |
| At Fords Road | 0.35 | 420 | 797 | 901 | 1,046 | 1,213 |
| POORHOUSE CREEK | | | | | | |
| At confluence with Rottenwood Creek | 3.61 | 2,480 | 2,920 | 3,080 | 3,110 | 3,460 |
| Approximately 420 feet upstream of Cobb Parkway Southeast/ U.S. Highway 41/State Highway 3 | 2.98 | 2,810 | 3,460 | 3,650 | 3,760 | 4,120 |
| At Dobbins Patrol Road | 2.61 | 2,970 | 4,310 | 4,890 | 4,990 | 6,320 |
| POPLAR CREEK | | | | | | |
| At confluence with Rottenwood Creek | 3.30 | 1,920 | 2,287 | 2,426 | * | 2,859 |
| At Cobb Parkway | 2.30 | 2,230 | 3,300 | 3,690 | * | 5,140 |
| At Spring Road Southeast | 1.15 | 1,290 | 1,820 | 2,040 | 2,040 | 2,640 |
| At Pinecrest Circle | 0.33 | 538 | 788 | 896 | * | 1,166 |

* Data not available

## TABLE 2 - SUMMARY OF DISCHARGES (continued)

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance | | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| | | | | Existing | Future | |
| POWDER SPRINGS CREEK | | | | | | |
| At confluence with Sweetwater Creek | 28.00 | 3,752 | 5,777 | 6,313 | 7,439 | 8,367 |
| At Oglesby Road Southeast | 25.40 | 3,631 | 5,660 | 6,198 | 7,289 | 8,230 |
| At Lewis Road Southeast | 24.20 | 3,615 | 5,640 | 6,178 | 7,260 | 8,202 |
| Just downstream of Florence Branch | 22.90 | 3,599 | 5,643 | 6,189 | 7,209 | 8,157 |
| At Elliot Road Southwest | 15.20 | 2,981 | 4,671 | 5,111 | 6,051 | 6,698 |
| At Moon Road Southwest | 10.00 | 2,141 | 3,349 | 3,860 | 4,473 | 5,070 |
| At MacFarland Road Southwest/State Highway360 | 9.10 | 1,980 | 3,225 | 3,721 | 4,301 | 4,875 |
| Just upstream of confluence with Mill Creek No. 1 | 6.50 | 1,595 | 2,510 | 2,830 | 3,283 | 3,706 |
| POWERS BRANCH | | | | | | |
| At confluence with Chattahoochee River | 0.50 | 318 | 514 | 611 | * | 856 |
| POWERS CREEK | | | | | | |
| At confluence with Rottenwood Creek | 0.80 | 850 | 1,310 | 1,520 | 1,540 | 2,010 |
| At Powers Ferry Road | 0.59 | 770 | 1,180 | 1,360 | 1,380 | 1,810 |
| PROCTOR CREEK | | | | | | |
| At Old 41 Highway | 7.56 | 3,092 | 4,347 | 4,861 | 5,475 | 5,993 |
| At Legacy Park Circle | 5.01 | 2,638 | 4,121 | 4,801 | 5,350 | 6,336 |
| At Jiles Road | 2.09 | 2,443 | 3,450 | 3,873 | 4,058 | 4,736 |
| QUEEN CREEK | | | | | | |
| At confluence with Nickajack Creek | 3.94 | 3,350 | 5,681 | 6,180 | * | 8,232 |
| Just upstream of confluence of Liberty Hill Branch | 3.37 | 3,158 | 5,287 | 5,746 | * | 7,617 |
| Approximately 1,000 feet upstream of Queens Mill Road | 3.10 | 3,075 | 5,100 | 5,538 | * | 7,305 |
| Just Downstream from Milam Branch | 0.75 | 1,052 | 1,695 | 1,838 | * | 2,444 |
| At Mableton Parkway Southwest/State Highway | 0.46 | 643 | 1,044 | 1,133 | * | 1,530 |

* Data not available

## TABLE 2 - SUMMARY OF DISCHARGES (continued)

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance Existing | 1-Percent-Annual-Chance Future | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| ROBERTSON CREEK | | | | | | |
| Approximately 500 feet upstream of confluence with Sewell Mill Creek Road Northeast | 0.89 | 1,311 | 2,016 | 2,373 | 2,396 | 3,339 |
| Approximately 1,620 feet upstream of Old Canton Road Northeast | 0.65 | 760 | 1,207 | 1,407 | 1,471 | 3,104 |
| At Roswell Road | 0.27 | 465 | 731 | 850 | 873 | 1,162 |
| ROTTENWOOD CREEK | | | | | | |
| At confluence with Chattahoochee River | 19.71 | 9,550 | 12,290 | 13,390 | 13,750 | 16,210 |
| At Windy Hill Road Southeast | 17.91 | 7,330 | 9,590 | 10,510 | 10,700 | 12,980 |
| At Terrell Mill Road | 13.62 | 7,130 | 9,260 | 10,110 | 10,290 | 12,720 |
| At Delk Road Southeast/State Highway 280 | 9.44 | 4,560 | 6,340 | 7,110 | 7,280 | 9,230 |
| At Franklin Road Northeast | 5.68 | 3,770 | 5,810 | 6,680 | 7,050 | 8,890 |
| At Cobb Parkway Southeast/ U.S. Highway 41/State Highway 3 | 4.76 | 3,570 | 5,560 | 6,360 | 6,720 | 8,400 |
| At Barclay Circle Southeast | 2.10 | 2,590 | 3,810 | 4,370 | 4,720 | 5,760 |
| At Alumni Drive | 1.57 | 2,230 | 3,240 | 3,670 | 3,900 | 4,730 |
| At Fairground Street | 0.58 | 330 | 470 | 530 | 560 | 680 |
| RUBES CREEK | | | | | | |
| Approximately 210 feet downstream of Jamerson Road Northeast | 8.69 | 5,042 | 9,034 | 10,700 | 11,166 | 15,998 |
| At confluence of Rubes Creek Tributary | 4.09 | 2,908 | 4,778 | 5,678 | 5,748 | 7,977 |
| Approximately 1,310 feet downstream Shallow Road Northeast | 3.54 | 2,774 | 4,552 | 5,365 | 5,435 | 7,426 |
| Approximately 1,120 downstream of Downing Street Northeast | 1.78 | 2,385 | 3,755 | 4,401 | 4,448 | 5,952 |
| Approximately 160 feet upstream of Saxony Glen | 0.25 | 501 | 722 | 818 | 818 | 1,054 |

## TABLE 2 - SUMMARY OF DISCHARGES (continued)

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance | | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| | | | | Existing | Future | |
| RUBES CREEK TRIBUTARY | | | | | | |
| Approximately 1,162 feet upstream of Keheley Drive Northeast | 0.52 | 469 | 738 | 858 | 858 | 1,164 |
| SEWELL MILL CREEK | | | | | | |
| At Confluence with Sope Creek | 14.4 | 4,490 | 6,427 | 7,423 | * | 9,336 |
| Approximately 610 feet downstream of Murdock Road Northeast | 13.2 | 4,291 | 6,134 | 7,079 | * | 8,892 |
| Approximately 700 feet upstream of Roswell Road Old Canton Road | 11.3 | 3,849 | 5,510 | 6,359 | * | 7,594 |
| Approximately 850 feet upstream of Sewell Mill Road | 5.6 | 2,318 | 3,349 | 3,869 | * | 4,912 |
| Approximately 1000 feet downstream of Old Canton Road | 4.7 | 2,050 | 2,968 | 3,428 | * | 4,360 |
| At Holly Spring Road | 3.6 | 1,728 | 2,502 | 2,888 | * | 3,675 |
| At Piedmont Forest Drive | 1.6 | 1,020 | 1,481 | 1,706 | * | 2,176 |
| Approximately 900 feet upstream of Post Oak Tritt Road | 0.8 | 612 | 598 | 1,035 | * | 1,334 |
| At Cynthia Court | 0.3 | 294 | 438 | 507 | * | 664 |
| SMYRNA BRANCH | | | | | | |
| At confluence with Theater Branch | 0.90 | 1,166 | 1,652 | 1,741 | * | 2,022 |
| Approximately 1,100 feet Downstream of Lavista Place | 0.70 | 1,016 | 1,689 | 1,825 | * | 2,354 |
| La Vista Place | 0.42 | 694 | 1,136 | 1,222 | * | 1,564 |
| At Powder Springs Street | 0.13 | 260 | 401 | 425 | * | 546 |
| SOPE BRANCH | | | | | | |
| Approximately 240 feet upstream of Chicopee Drive | 0.42 | 969 | 1,419 | 1,588 | 1,588 | 2,000 |
| At Apache Trail | 0.11 | 680 | 953 | 1,071 | 1,071 | 1,359 |
| SOPE CREEK | | | | | | |
| At the confluence with Chattahoochee River | 35.5 | 8,952 | 12,237 | 13,570 | * | 16,459 |

* Data not available

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance Existing | 1-Percent-Annual-Chance Future | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| Sope Creek (Continued) | | | | | | |
| Approximately 1,400 feet Downstream of paper Mill Road | | | | | | |
| At paper Mill Road | 33.3 | 8,115 | 11,206 | 12,484 | * | 15,327 |
| Approximately 1800 feet downstream of lower Roswell Road | 32.9 | 7,985 | 11,045 | 12,314 | * | 15148 |
| Approximately 3600 feet downstream of lower Roswell Road | 32.1 | 7,687 | 10,677 | 11,925 | * | 14,740 |
| Approximately 1500 feet downstream of Lower Roswell Road | 31.1 | 7,337 | 10,242 | 11,242 | * | 14,740 |
| Approximately 1,650 feet downstream of lower Roswell Road | 28.9 | 6,598 | 9,321 | 10,488 | * | 13,219 |
| Approximately 1,250 feet downstream of Indian Hills Drive | 13.4 | 5,053 | 7,066 | 8,096 | * | 9,947 |
| Approximately 150 feet upstream of Old Canton Road | 11.9 | 4,650 | 6,510 | 7,459 | * | 9,176 |
| Approximately 100 feet upstream of Holt Road | 10.8 | 4,435 | 6,197 | 7,094 | * | 8709 |
| Approximately 1,000 feet Upstream of Roswell Road | 8.5 | 3,799 | 5,311 | 6,076 | * | 7464 |
| Approximately 750 feet downstream of Barnes Mill Road | 6.6 | 3,203 | 4,484 | 5,128 | * | 6,309 |
| Approximately 2,300 feet upstream of Barnes Mill Road | 3.7 | 2,122 | 2,992 | 3,423 | * | 4,240 |
| Approximately 500 feet downstream of Pickens Industrial Drive | 2.4 | 1,663 | 2,334 | 2,663 | * | 3,285 |
| At Interstate 75 | 2.3 | 1,262 | 1,420 | 1,478 | * | 1,578 |
| Approximately 150 feet upstream of Cobb Parkway | 1.0 | 865 | 1,232 | 1,408 | * | 1,762 |

* Data not available

## TABLE 2 - SUMMARY OF DISCHARGES (continued)

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance Existing | 1-Percent-Annual-Chance Future | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| SWEAT MOUNTAIN CREEK | | | | | | |
| At confluence with Willeo Creek | 4.47 | 994 | 2,019 | 2,249 | * | 3,897 |
| Approximately 1,424 feet upstream of Rock Ivy Trl | 4.34 | 992 | 2,015 | 2,246 | | 3,892 |
| At Mabry Road Northeast | 3.53 | 849 | 1,817 | 2,041 | * | 3,588 |
| At Loch Highland Pkwy | 2.68 | 994 | 1,984 | 2,174 | | 3,506 |
| Approximately 258 feet upstream of Wesley Chapel Road | 2.00 | 1,411 | 2,335 | 2,539 | * | 3,546 |
| SWEETWATER CREEK | | | | | | |
| Old Alabama Road SW | 233 | 8,333 | 13,681 | 16,475 | * | 24,390 |
| At US Highway 78 | 227 | 8,255 | 13,552 | 16,319 | * | 24,160 |
| At Austell-Powder Springs Road SW | 164 | 7,469 | 12,261 | 14,765 | * | 21,859 |
| At Westside Road | 163 | 7,233 | 11,874 | 14,299 | * | 21,169 |
| At Lithia Spring Road | 131 | 6,525 | 10,712 | 12,900 | * | 19,098 |
| Holloman Road | 128 | 6,289 | 10,325 | 12,434 | * | 18,407 |
| At Brown Road | 105 | 5,739 | 9,422 | 11,346 | * | 16,797 |
| TANYARD CREEK | | | | | | |
| At county boundary | 2.70 | 1,461 | 1,889 | 2,074 | 2,339 | 2,456 |
| At Lake Acworth Drive | 2.50 | 1,076 | 1,397 | 1,513 | 1,738 | 2,047 |
| At Cherokee Street Northwest | 2.10 | 960 | 1,329 | 1,478 | 1,714 | 2,020 |
| At Cowan Road Northwest | 1.40 | 893 | 1,168 | 1,374 | 1,608 | 1,940 |
| At Baker Grove Road | 1.00 | 789 | 1,051 | 1,261 | 1,485 | 1,844 |
| At Baker Plantation Drive (Downstream) | 0.50 | 472 | 723 | 815 | 888 | 1,024 |
| TATE CREEK | | | | | | |
| At confluence with Noonday Creek | 5.10 | 742 | 1,246 | 1,471 | * | 2,240 |
| Just downstream of Flood Retarding Structure No. 17 | 4.60 | 62 | 447 | 819 | * | 1,354 |

* Data not available

## TABLE 2 - SUMMARY OF DISCHARGES (continued)

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance Existing | 1-Percent-Annual-Chance Future | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| TATE CREEK(Continued) | | | | | | |
| Just upstream of Flood Retarding Structure No. 17 | 4.60 | 2,827 | 4,684 | 5,521 | * | 8,261 |
| Just downstream of Regional Flood Control Facility | 1.70 | 264 | 502 | 630 | * | 1,777 |
| Just upstream of Regional Flood Control Facility | 1.70 | 1,696 | 2,850 | 3,365 | * | 5,122 |
| Just downstream of Wooten Lake Road Northwest | 0.50 | 236 | 434 | 535 | * | 960 |
| Just upstream of Wooten Lake Road Northwest | 0.50 | 805 | 1,353 | 1,591 | * | 2,421 |
| TERRELL BRANCH | | | | | | |
| At confluence with Chattahoochee River | 1.50 | 812 | 1,217 | 1,402 | * | 1,866 |
| THEATER BRANCH | | | | | | |
| At confluence with Nickajack Creek | 2.56 | 2,221 | 3,430 | 3,736 | * | 3,850 |
| Just upstream of confluence of Smyrna Branch | 1.49 | 1,512 | 2,204 | 2308 | * | 3,062 |
| Approximately 1000 feet upstream of Powder Springs Road Southeast | 1.10 | 1,319 | 2,132 | 2,307 | * | 3,015 |
| At Windy Hill Road Southeast | 0.61 | 770 | 1,277 | 1,393 | * | 1 ,837 |
| At Parkway Drive | 0.40 | 604 | 977 | 1,066 | * | 1,383 |
| THOMPSON CREEK | | | | | | |
| Approximately 1,320 feet downstream of Liberty Lane Northeast | 1.11 | 1,351 | 2,161 | 2,651 | 2,729 | 3,935 |
| At Liberty Lane | 0.72 | 722 | 1,412 | 1,940 | 1,951 | 3,197 |
| At Pine Road | 0.36 | 114 | 683 | 913 | 913 | 1,672 |
| TIMBER RIDGE BRANCH | | | | | | |
| At confluence with Willeo Creek | 2.94 | 1,760 | 3,297 | 3,632 | * | 5,461 |
| Approximately 366 feet upstream of Timber Ridge Road | 2.82 | 1736 | 3,254 | 3,587 | * | 5,405 |

*Data not available

## TABLE 2 - SUMMARY OF DISCHARGES (continued)

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance Existing | 1-Percent-Annual-Chance Future | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| TIMBER RIDGE BRANCH(Continued) | | | | | | |
| At Huntingford Drive | 2.06 | 1,453 | 2,543 | 2,819 | * | 4,217 |
| At Little Willeo Road | 1.23 | 825 | 1,423 | 1,555 | * | 2,214 |
| TRICKUM CREEK | | | | | | |
| Approximately 2,260 feet upstream of Jamerson Road Northeast | 4.32 | 3,148 | 5,559 | 6,426 | 6,846 | 9,368 |
| Approximately 1,780 feet upstream of Trickum Road Northeast | 2.04 | 2,054 | 3,701 | 4,407 | 4,750 | 6,487 |
| At Steinhauer Road | 1.54 | 1,999 | 3,497 | 4,222 | 4,555 | 6,149 |
| Approximately 370 feet upstream of Pete Shaw Road Northeast | 0.35 | 640 | 962 | 1,104 | 1,175 | 1,456 |
| TRICKUM CREEK TRIBUTARY | | | | | | |
| Approximately 260 feet upstream of Netherstone Court Northeast | 1.04 | 1,129 | 2,022 | 2,386 | 2,562 | 3,415 |
| At Forest Way | 0.74 | 1,088 | 1,946 | 2,134 | 2,288 | 3,223 |
| Approximately 210 feet upstream of Jims Road Northeast | 0.20 | 401 | 624 | 723 | 723 | 972 |
| VININGS BRANCH | | | | | | |
| At confluence with Chattahoochee River | 0.90 | 716 | 1,038 | 1,186 | * | 1,546 |
| At Randall Farm Road Northwest | 0.60 | 591 | 854 | 976 | * | 1,270 |
| At confluence with Noses Creek | 8.10 | 2,130 | 3,360 | 3,739 | 4,122 | 5,059 |
| At John Ward Road Southwest | 7.20 | 2,066 | 3,242 | 3,620 | 3,993 | 4,873 |
| At Cheatham Hill Road Southwest | 5.80 | 2,149 | 3,408 | 3,894 | 4,260 | 5,123 |

* Data not available

## TABLE 2 - SUMMARY OF DISCHARGES (continued)

| Flooding Source and Location | Drainage Area (square miles) | Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance | | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|---|---|
| | | | | Existing | Future | |
| VININGS BRANCH(Continued) | | | | | | |
| At Kirkpatrick Drive Southwest | 1.70 | 1,070 | 1,702 | 1,962 | 2,121 | 2,470 |
| WARD CREEK | | | | | | |
| At confluence with Noses Creek | 8.10 | 2,130 | 3,360 | 3,739 | 4,122 | 5,059 |
| At John Ward Road Southwest | 7.20 | 2,066 | 3,242 | 3,620 | 3,993 | 4,873 |
| At Cheatham Hill Road Southwest | 5.80 | 2,149 | 3,408 | 3,894 | 4,260 | 5,123 |
| At Kirkpatrick Drive Southwest | 1.70 | 1,070 | 1,702 | 1,962 | 2,121 | 2,470 |
| WESTSIDE BRANCH | | | | | | |
| At confluence with Ward Creek | 0.87 | 1,020 | 1,700 | 2,000 | * | 2,880 |
| WILDHORSE CREEK | | | | | | |
| At confluence with Noses Creek | 4.30 | 1,755 | 2,881 | 3,134 | * | 4,209 |
| At Macedonia Road Southwest | 2.40 | 1,012 | 1,800 | 1,987 | * | 2,747 |
| Approximately 1967 Feet upstream of old Villarica road | 1.40 | 983 | 1,694 | 1,864 | * | 2561 |
| At Lost Mountain Road | 0.69 | 571 | 996 | 1,089 | * | 1,474 |
| WILDWOOD BRANCH | | | | | | |
| Approximately 1,670 feet upstream of North Marietta Parkway | 0.67 | 1,239 | 1,839 | 2,102 | 2,281 | 2,764 |
| At Amanda Lane | 0.33 | 884 | 1,282 | 1,456 | 1,607 | 1,892 |
| WILLEO CREEK | | | | | | |
| At confluence with Chattahoochee River | 19.70 | 4,145 | 7,057 | 7,699 | * | 11,092 |
| Approximately 367 feet Upstream of Lower Roswell Road | 19.62 | 4,159 | 7,071 | 7,707 | * | 11,123 |
| At Roswell Road | 16.14 | 4,024 | 6,856 | 7,482 | * | 10,931 |
| Approximately 111 feet Downstream of Post Oak Tritt Drive | 12.55 | 3,443 | 5,527 | 5,958 | * | 8,556 |
| At Chiders Road | 7.28 | 1,573 | 3,449 | 3,847 | * | 6,391 |

* Data not available

The stillwater elevation for the 1-percent-annual-chance flood event for Allatoona Lake and Lake Acworth is shown in Table 3, "Summary of Stillwater Elevations."

TABLE 3 - SUMMARY OF STILLWATER ELEVATIONS

| Flooding Source | Water Surface Elevations (Feet NAVD88[1]) 10-Percent-Annual-Chance | 2-Percent-Annual-Chance | 1-Percent-Annual-Chance | 0.2-Percent-Annual-Chance |
|---|---|---|---|---|
| ALLATOONA LAKE | * | * | 861.1 | * |
| LAKE ACWORTH | * | * | 861.1 | * |

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

## 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.

**Initial Countywide Analyses**

Cross sections for the backwater analyses for the initial countywide study were obtained from aerial photography (Woolpert Consultants, 1988) for the following streams studied in detail: Buttermilk Creek, Chattahoochee River, Clay Branch, Davis Branch, Florence Branch, Gilmore Creek, Gordon Creek, Gothards Creek, Harmony Grove Creek, Lost Mountain Creek, Noonday Creek Tributary No. 1, Noonday Creek Tributary No. 4, Pine Branch, Pine Creek, Sweat Mountain Creek, Sweetwater Creek, Tate Creek, Terrell Branch, Timber Ridge Branch, Vinings Branch, Westside Branch, Wildhorse Creek, and Willeo Creek. The below-water sections were obtained by field measurement at bridge structures and interpolated or estimated between structures. All bridges, dams, and culverts were field surveyed to obtain elevation and structural geometry data. All cross-section information for Gordon Branch was obtained from field survey.

WSELs of floods of the selected recurrence intervals were computed using the HEC-2 step backwater computer program (USACE, 1985).

Starting WSELs, except for the Chattahoochee River, were determined using the slope/area method. For the Chattahoochee River, the flood discharges for the March 1977 and April 1979 floods, as measured by the gages, were used to reconstruct water-surface profiles for these flood events. Reconstructed profiles were compared to high-water marks obtained during these floods, and adjustments were made in channel and overbank roughness coefficients (Manning's "n") until the difference between reconstructed and observed stages was within plus or minus 0.5 foot.

Additional calibration was performed for the 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.

Flood profiles were drawn showing the computed WSELs for floods of the selected recurrence intervals. In cases where the 2- and 1-percent-annual-chance flood elevations are close together, due to limitations of the profile scale, only the 1-percent-annual-chance flood profile has been shown.

**Revised Countywide Analyses**

For the revised countywide FIS dated December 16, 2008, field-run cross sections were obtained for various locations along each stream as outlined in the survey plan. Cobb County topographic mapping at 2-foot intervals was also available throughout the study area (Cobb County, 2000 and 2005). Cross sections were cut from digital terrain models of the 2-foot contour interval mapping at desired locations. Where field survey information was available, field surveys were used in the model. Outside of the areas where field surveys were obtained, survey information was used to supplement the channel information at cut cross sections. Survey information was used by either interpolating between two surveyed channel sections or by applying a surveyed channel section as a typical section.

The hydraulic analysis was prepared using HEC-RAS (Version 3.1.1) (USACE, 2003) to compute WSELs for Olley Creek, Olley Creek Tributary, and the following watersheds: Nickajack Creek (Concord Creek, Cooper Lake Creek, Favor Creek, Laurel Creek, Liberty Hill Branch, Milam Branch, Mill Creek No. 2, Nickajack Creek, Queen Creek, Smyrna Branch, and Theater Branch); Rottenwood Creek (Hope Creek, Poorhouse Creek, Poplar Creek, Powers Creek, and Rottenwood Creek); Sope Creek (Bishop Creek, Blackjack Creek, Campground Creek, Eastside Creek, Elizabeth Branch, Piney Grove Creek, Robertson Creek, Sewell Mill Creek, Sope Branch, Sope Creek, Thompson Creek, and Wildwood Branch); and Rubes Creek (Rubes Creek, Rubes Creek Tributary, Trickum Creek, and Trickum Creek Tributary). HEC-RAS (Version

3.1.3) (USACE, River Analysis System, Version 3.1.3) was used to compute WSELs for Allatoona Branch, Allatoona Creek, Butler Creek, Due West Creek, Little Allatoona Creek, Little Noonday Creek, Luther Ward Branch, Mill Creek No.1, Morgan Lake Tributary, Mud Creek, Noonday Creek, Noonday Creek Tributary No. 3, Noonday Creek Tributary No. 7, Noses Creek, Pitner Creek, Powder Springs Creek, Proctor Creek, Tanyard Creek, and Ward Creek.

The starting WSELs for all models were calculated by HEC-RAS using the downstream energy slope specified in the boundary conditions editor of the flow file. Each HEC-RAS model contains one stream, with starting WSELs based on normal-depth calculations using the slope of the stream at the lower limits of the model. Water-surface profiles were computed for the 10-, 2-, 1-, and 0.2-percent-annual-chance floods for existing and future conditions.

Cross sections for the flooding sources studied by limited detail methods were obtained using digital topography. The 1-percent-annual-chance WSELs were computed using the USACE's HEC-RAS hydraulic model version 3.1.3 (USACE, River Analysis System, Version 3.1.3), and HEC-GeoRAS was used to delineate the 1-percent-annual-chance floodplain (USACE, 2004). The hydraulic model was prepared using digital elevation data (Cobb County, 2000 and 2005), without surveying bathymetric data. Where bridge or culvert data were readily available, these data were reflected in the hydraulic model. Where structure data were not readily available, field measurements were made to approximate their geometry in the hydraulic models. Models do not include field surveys that determine the specifics of channel and floodplain geometry. 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 geometry, and by analyzing multiple recurrence intervals.

For the revised countywide FIS dated June 18, 2010, WSELs for the revised study area of the Chattahoochee River were determined by re-running the previously effective HEC-2 model with the updated discharge values (USACE, 1991). Floodway encroachment stations remain the same as they were with the previously effective model; however, the HEC-2 floodway model was re-run to reflect the revised discharge values. The water surface at Morgan Falls has been mapped to an elevation of 854 feet. This represents the Morgan Falls spillway elevation and the starting WSEL of the previously effective HEC-2 model.

For the revised countywide FIS dated July 3, 2012, the previously effective HEC-RAS models for Sope Creek and Sewell Mill Creek were updated with the revised hydrology. Additionally, the floodway was adjusted and both the 1-percent and 0.2-percent-annual-chance floodplains were redelineated on Cobb County's 2-foot equivalent aerial topography from 2005. This resulted in significant decreases in WSELs.

For this revision, cross sections for the flooding sources studied by detailed methods were cut from the digital terrain model of the topographic Light Detection and Rangin (LiDAR) data (Photo Science, 2009) at desired locations. Field survey information was incorporated in the model where cross sections were surveyed. Field--survey information was used to supplement the channel information at cut cross sections outside of the areas where field surveys were obtained. All bridges, culverts, and dams were field surveyed to obtain elevation data and structural geometry.

WSELs for floods of the selected recurrence intervals were computed using the USACE HEC-RAS Version 4.0 computer program.

Starting WSELs were determined using normal depth unless a coincident peak situation is assumed. The energy slope was approximated by using the average slope of the channel at the lower limits of the model. Under a coincident peak situation, a known WSEL was implemented as the starting WSEL.

The Manning's "n" values were assigned to channel and overbank portions of the studied streams based on field visits and aerial photographs. Comparisons of field conditions were made with published USGS photographs (USGS, 1977), "Open Channel Hydraulics" (Chow, 1959), and Manning's "n" values found in the HEC-RAS Hydraulic Reference Guide (USACE, 2002). The Manning's "n" values published in the Cobb County 1992 FIS (FEMA, 1992) were also consulted as a reference to verify the range of "n" values used.

The Manning's "n" values for all detailed studied streams are listed in Table 4, Manning's "n" Values.

TABLE 4 - MANNING'S "N" VALUES

| Stream | Channel "n" | Overbank "n" |
|---|---|---|
| Allatoona Branch | 0.060 | 0.150 |
| Allatoona Creek | 0.040-0.060 | 0.140 |
| Bishop Creek | 0.035-0.045 | 0.030-0.120 |
| Blackjack Creek | 0.035-0.070 | 0.100-0.120 |
| Butler Creek | 0.050 | 0.150-0.170 |
| Buttermilk Creek | 0.040-0.065 | 0.080-0.120 |
| Campground Creek | 0.035-0.045 | 0.100-0.120 |
| Chattahoochee River | 0.035-0.040 | 0.070-0.120 |

TABLE 4 - MANNING'S "N" VALUES - CONTINUED

| Stream | Channel "n" | Overbank "n" |
|---|---|---|
| Clay Branch | 0.040-0.065 | 0.080-0.120 |
| Concord Creek | 0.035-0.040 | 0.070-0.120 |
| Cooper Lake Creek | 0.040 | 0.010-0.120 |
| Davis Branch | 0.040-0.065 | 0.080-0.120 |
| Due West Creek | 0.050 | 0.150 |
| Eastside Creek | 0.035-0.045 | 0.030-0.120 |
| Elizabeth Branch | 0.035-0.045 | 0.100-0.120 |
| Favor Creek | 0.04-0.045 | 0.080-0.120 |
| Florence Branch | 0.040-0.065 | 0.080-0.120 |
| Gilmore Creek | 0.040-0.065 | 0.080-0.120 |
| Gordon Branch | 0.040-0.065 | 0.080-0.120 |
| Gordon Creek | 0.040-0.065 | 0.080-0.120 |
| Gothards Creek | 0.030-0.070 | 0.045-0.100 |
| Harmony Grove Creek | 0.040-0.065 | 0.080-0.120 |
| Hope Creek | 0.025-0.045 | 0.080-0.120 |
| Laurel Creek | 0.035-0.040 | 0.080-0.120 |
| Liberty Hill Branch | 0.045-0.055 | 0.060-0.100 |
| Little Allatoona Creek | 0.060 | 0.150 |
| Little Noonday Creek | 0.045-0.065 | 0.080-0.120 |
| Lost Mountain Creek | 0.030-0.060 | 0.055-0.130 |
| Luther Ward Branch | 0.060 | 0.170 |
| Milam Branch | 0.045-0.055 | 0.060-0.120 |
| Mill Creek No. 1 | 0.055 | 0.120 |
| Mill Creek No. 2 | 0.035-0.040 | 0.100-0.120 |
| Morgan Lake Tributary | 0.055 | 0.120 |
| Mud Creek | 0.050 | 0.150 |
| Nickajack Creek | 0.045-0.055 | 0.060-0.080 |
| Noonday Creek | 0.040-0.065 | 0.080-0.110 |
| Noonday Creek Tributary No. 1 | 0.040-0.065 | 0.080-0.120 |
| Noonday Creek Tributary No. 3 | 0.012-0.055 | 0.060-0.130 |
| Noonday Creek Tributary No. 4 | 0.040-0.065 | 0.080-0.120 |
| Noonday Creek Tributary No. 6 | 0.040-0.065 | 0.080-0.120 |
| Noonday Creek Tributary No. 7 | 0.050-0.060 | 0.110 |
| Noses Creek | 0.040-0.050 | 0.11-0.150 |
| Olley Creek | 0.040-0.055 | 0.060-0.130 |
| Olley Creek Tributary | 0.045 | 0.080-0.120 |
| Pine Branch | 0.040-0.065 | 0.080-0.120 |
| Pine Creek | 0.040-0.065 | 0.080-0.120 |

TABLE 4 - MANNING'S "N" VALUES - continued

| Stream | Channel "n" | Overbank "n" |
|---|---|---|
| Piney Grove Creek | 0.035-0.100 | 0.100-0.120 |
| Pitner Creek | 0.035-0.055 | 0.080-0.150 |
| Poorhouse Creek | 0.045-0.050 | 0.070-0.120 |
| Poplar Creek | 0.046-0.053 | 0.080-0.150 |
| Powder Springs Creek | 0.055 | 0.120 |
| Powers Branch | 0.040-0.065 | 0.080-0.120 |
| Powers Creek | 0.040-0.055 | 0.100-0.120 |
| Proctor Creek | 0.040-0.07 | 0.150 |
| Queen Creek | 0.045 | 0.060-0.100 |
| Robertson Creek | 0.035-0.045 | 0.030-0.120 |
| Rottenwood Creek | 0.040-0.058 | 0.060-0.120 |
| Rubes Creek | 0.035-0.070 | 0.050-0.120 |
| Rubes Creek Tributary | 0.035-0.040 | 0.100-0.120 |
| Sewell Mill Creek | 0.03-0.050 | 0.035-0.120 |
| Smyrna Branch | 0.040 | 0.060-0.120 |
| Sope Branch | 0.035-0.045 | 0.100-0.120 |
| Sope Creek | 0.035-0.050 | 0.030-0.120 |
| Sweat Mountain Creek | 0.040-0.065 | 0.080-0.120 |
| Sweetwater Creek | 0.035-0.055 | 0.050-0.20 |
| Tanyard Creek | 0.035-0.060 | 0.150 |
| Tate Creek | 0.040-0.065 | 0.080-0.120 |
| Terrell Branch | 0.040-0.065 | 0.080-0.120 |
| Theater Branch | 0.035-0.040 | 0.060-0.120 |
| Thompson Creek | 0.035-0.045 | 0.100-0.120 |
| Timber Ridge Branch | 0.040-0.065 | 0.080-0.120 |
| Trickum Creek | 0.035-0.050 | 0.045-0.120 |
| Trickum Creek Tributary | 0.035-0.040 | 0.012-0.120 |
| Vinings Branch | 0.040-0.065 | 0.080-0.120 |
| Ward Creek | 0.018-0.050 | 0.100-0.150 |
| Westside Branch | 0.040-0.065 | 0.080-0.120 |
| Wildhorse Creek | 0.030-0.065 | 0.055-0.130 |
| Wildwood Branch | 0.035-0.050 | 0.100-0.120 |
| Willeo Creek | 0.040-0.065 | 0.080-0.120 |

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).

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.

## 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 the National Geodetic Vertical Datum of 1929 (NGVD 29). With the finalization of the North American Vertical Datum of 1988 (NAVD 88), many FIS reports and FIRMs are being prepared using NAVD 88 as the referenced vertical datum.

All flood elevations shown in this FIS report and on the FIRM are referenced to NAVD 88. Structure and ground elevations in the community must, therefore, be referenced to NAVD 88. It is important to note that adjacent communities may be referenced to NGVD 29. This may result in differences in Base Flood Elevations (BFEs) across the corporate limits between the communities. The average conversion factor that was used to convert the data in this FIS report to NAVD 88 was calculated using the National Geodetic Survey's (NGS) VERTCON online utility (NGS, 2005). The data points used to determine the conversion are listed in Table 5, Vertical Datum Conversion.

TABLE 5 - VERTICAL DATUM CONVERSION

| Quadrangle Name | Corner | Longitude | Latitude | Conversion from NGVD 29 to NAVD 88 |
|---|---|---|---|---|
| Burnt Hickory Ridge | SE | -84.750 | 34.001 | 0.16 foot |
| Acworth | SE | -84.623 | 34.002 | 0.14 foot |
| Kennesaw | SE | -84.499 | 34.000 | 0.16 foot |
| Mountain Park | SE | -84.376 | 34.002 | 0.17 foot |
| Dallas | SE | -84.749 | 33.875 | 0.24 foot |
| Lost Mountain | SE | -84.622 | 33.876 | 0.24 foot |
| Marietta | SE | -84.499 | 33.876 | 0.22 foot |
| Austell | SE | -84.625 | 33.751 | 0.22 foot |
| Mableton | SE | -84.499 | 33.752 | 0.25 foot |
| Average: | | | | 0.20 foot |

For Allatoona Lake and Lake Acworth, the vertical datum conversion factor of 0.1 feet, which was previously determined in adjacent Cherokee County, was used

in this study. The average vertical datum conversion factor of 0.2 feet was used for all other streams in Cobb County.

For more information on NAVD 88, see the FEMA publication entitled Converting the National Flood Insurance Program to the North American Vertical Datum of 1988 (FEMA, June 1992), or contact the Vertical Network Branch, National Geodetic Survey, Coast and Geodetic Survey, National Oceanic and Atmospheric Administration, Silver Spring, Maryland 20910 (Internet address http://www.ngs.noaa.gov).

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 this data.

## 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 flood elevations and delineations of the 1- and 0.2-percent-annual-chance 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 Tables, 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. For each stream studied by detailed methods, the 1-percent-annual-chance floodplain boundary has been delineated using the flood elevations determined at each cross section. Between cross sections, the boundaries were interpolated using topographic maps with a contour interval of 10 and 15 feet (USGS, 1954, etc.) for the following stream: Noonday Creek Tributary No. 6. Between cross sections, the boundaries were interpolated using topographic maps at a scale of 1:2,400, with a contour interval of 2 feet (Cobb County, 2000 and 2005) for all other streams restudied by detailed methods, streams studied by limited detailed methods, and redelineated streams.

The existing-conditions 1-percent-annual-chance floodplain boundary is shown on the FIRM (Exhibit 2) for streams restudied by detailed methods in this countywide revision. On this map, the existing-conditions 1-percent-annual-

chance floodplain boundary corresponds to the boundary of the areas of special flood hazards (Zones A and AE). For streams that have not been restudied by detailed methods in this revision, the 0.2-percent-annual-chance floodplain boundary corresponds to the boundary of areas of moderate existing-conditions flood hazards (Zone X). In cases where these boundaries are close together, only the existing-conditions 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.

## 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 existing-conditions 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.

Floodways for the Chattahoochee River and Willeo Creek extend beyond the county boundary into Fulton County for the entire limit of detailed study. The floodway for Sweetwater Creek extends beyond the county boundary into Douglas County towards the downstream end of the study.

Near the mouths of streams studied in detail, floodway computations are made without regard to flood elevations on the receiving water body. Therefore, "Without Floodway" elevations presented in Table 6 for certain downstream cross sections of the following streams are lower than the regulatory flood elevations in that area, which must take into account the 1-percent-annual-chance flooding due to backwater from other sources.

Allatoona Creek
Bishop Creek
Butler Creek
Buttermilk Creek
Campground Creek
Noonday Creek Tributary No. 6
Noonday Creek Tributary No. 7
Noses Creek
Olley Creek
Pitner Creek

Concord Creek
Cooper Lake Creek
Due West Creek
Eastside Creek
Favor Creek
Gilmore Creek
Gothards Creek
Laurel Creek
Liberty Hill Branch
Little Allatoona Creek
Little Noonday Creek
Luther Ward Branch
Milam Branch
Mill Creek No. 1
Morgan Lake Tributary
Nickajack Creek
Noonday Creek Tributary No. 4
Powder Springs Creek
Proctor Creek
Queen Creek
Robertson Creek
Sewell Mill Creek
Smyrna Branch
Sweat Mountain Creek
Tanyard Creek
Tate Creek
Theater Branch
Thompson Creek
Timber Ridge Branch
Vinings Branch
Westside Branch
Wildhorse Creek
Wildwood Branch
Willeo Creek

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 (Table 6). 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. 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 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.

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Allatoona Branch | | | | | | | | |
| A | 624[1] | 50 | 283 | 3.8 | 984.5 | 984.5 | 984.7 | 0.2 |
| B | 1,582[1] | 70 | 127 | 7.6 | 992.8 | 992.8 | 992.8 | 0.0 |
| C | 2,775[1] | 80 | 280 | 3.4 | 1,009.9 | 1,009.9 | 1,010.2 | 0.3 |
| D | 3,763[1] | 75 | 332 | 1.8 | 1,019.1 | 1,019.1 | 1,019.2 | 0.1 |
| Allatoona Creek | | | | | | | | |
| A | 261[2] | 89 | 672 | 14.4 | 861.1 | 833.1[3] | 833.5 | 0.2 |
| B | 1,707[2] | 1,080 | 8,586 | 1.1 | 861.1 | 838.4[3] | 839.0 | 0.6 |
| C | 3,459[2] | 360 | 2,880 | 3.4 | 861.1 | 839.2[3] | 839.9 | 0.7 |
| D | 5,361[2] | 279 | 2,826 | 3.4 | 861.1 | 841.3[3] | 841.7 | 0.4 |
| E | 7,374[2] | 500 | 3,593 | 2.7 | 861.1 | 844.7[3] | 844.8 | 0.1 |
| F | 8,946[2] | 165 | 1,543 | 6.2 | 861.1 | 847.2[3] | 847.2 | 0.0 |
| G | 11,517[2] | 900 | 8,285 | 1.0 | 861.1 | 849.9[3] | 850.1 | 0.2 |
| H | 13,454[2] | 1,000 | 6,668 | 1.3 | 861.1 | 850.5[3] | 850.8 | 0.3 |
| I | 14,936[2] | 1,100 | 5,787 | 1.5 | 861.1 | 851.4[3] | 851.7 | 0.3 |
| J | 18,098[2] | 145 | 1,132 | 7.8 | 861.1 | 858.5[3] | 858.6 | 0.1 |
| K | 18,269[2] | 202 | 1,753 | 5.0 | 861.1 | 860.6[3] | 860.9 | 0.3 |
| L | 18,908[2] | 950 | 8,228 | 1.1 | 862.4 | 862.4 | 862.7 | 0.3 |
| M | 20,636[2] | 310 | 2,359 | 3.7 | 863.3 | 863.3 | 863.6 | 0.3 |
| N | 22,488[2] | 171 | 1,705 | 5.1 | 868.2 | 868.2 | 868.5 | 0.3 |
| O | 23,700[2] | 650 | 5,742 | 1.6 | 871.1 | 871.1 | 871.5 | 0.4 |
| P | 25,121[2] | 750 | 5,274 | 1.7 | 872.0 | 872.0 | 872.5 | 0.5 |
| Q | 27,008[2] | 750 | 4,827 | 1.9 | 873.7 | 873.7 | 874.5 | 0.8 |
| R | 28,276[2] | 220 | 1,158 | 7.7 | 875.4 | 875.4 | 875.7 | 0.3 |
| S | 29,560[2] | 130 | 1,532 | 5.8 | 881.3 | 881.3 | 882.0 | 0.7 |
| T | 30,684[2] | 190 | 2,170 | 4.1 | 884.2 | 884.2 | 884.8 | 0.6 |
| U | 32,644[2] | 350 | 3,394 | 2.7 | 887.6 | 887.6 | 888.4 | 0.8 |
| V | 34,326[2] | 470 | 3,973 | 1.7 | 889.6 | 889.6 | 890.6 | 1.0 |

[1]Feet above confluence with Allatoona Creek
[2]Feet above confluence with Lake Allatoona
[3]Elevation computed without consideration of backwater from Lake Allatoona

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**ALLATOONA BRANCH – ALLATOONA CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Allatoona Creek (continued) | | | | | | | | |
| W | 35,590 | 755 | 5,397 | 1.3 | 890.6 | 890.6 | 891.6 | 1.0 |
| X | 37,127 | 395 | 2,882 | 2.4 | 892.2 | 892.2 | 893.1 | 0.9 |
| Y | 38,164 | 165 | 1,064 | 6.4 | 896.6 | 896.6 | 896.6 | 0.0 |
| Z | 38,326 | 265 | 2,478 | 2.8 | 900.6 | 900.6 | 900.6 | 0.0 |
| AA | 41,179 | 150 | 1,427 | 4.4 | 906.0 | 906.0 | 906.1 | 0.1 |
| AB | 42,990 | 145 | 1,304 | 4.5 | 912.8 | 912.8 | 912.9 | 0.1 |
| AC | 44,315 | 130 | 926 | 6.4 | 914.1 | 914.1 | 914.3 | 0.2 |
| AD | 45,486 | 400 | 1,956 | 2.2 | 918.3 | 918.3 | 918.6 | 0.3 |
| AE | 47,016 | 355 | 1,288 | 3.4 | 922.2 | 922.2 | 922.7 | 0.5 |
| AF | 49,035 | 450 | 1,626 | 2.7 | 932.2 | 932.2 | 932.2 | 0.0 |
| AG | 50,079 | 159 | 851 | 5.4 | 937.2 | 937.2 | 938.1 | 0.9 |
| AH | 50,886 | 170 | 1,011 | 4.1 | 941.1 | 941.1 | 942.0 | 0.9 |
| AI | 51,748 | 170 | 1,036 | 4.0 | 947.5 | 947.5 | 947.6 | 0.1 |
| AJ | 53,077 | 268 | 1,697 | 1.4 | 955.4 | 955.4 | 955.5 | 0.1 |
| AK | 54,687 | 140 | 453 | 5.3 | 962.6 | 962.6 | 962.6 | 0.0 |
| AL | 56,154 | 115 | 369 | 6.5 | 971.3 | 971.3 | 971.4 | 0.1 |
| AM | 56,984 | 69 | 435 | 5.5 | 977.8 | 977.8 | 978.2 | 0.4 |
| AN | 57,084 | 80 | 880 | 2.7 | 983.2 | 983.2 | 983.2 | 0.0 |
| AO | 58,171 | 134 | 496 | 2.9 | 986.4 | 986.4 | 986.4 | 0.0 |
| AP | 59,439 | 185 | 304 | 4.8 | 997.4 | 997.4 | 997.5 | 0.1 |
| AQ | 60,527 | 120 | 289 | 5.0 | 1,009.6 | 1,009.6 | 1,009.6 | 0.0 |
| AR | 62,160 | 80 | 167 | 3.5 | 1,027.6 | 1,027.6 | 1,027.7 | 0.1 |
| AS | 62,275 | 264 | 407 | 1.4 | 1,049.7 | 1,049.7 | 1,049.7 | 0.0 |
| AT | 63,629 | 180 | 675 | 1.1 | 1,055.5 | 1,055.5 | 1,055.8 | 0.3 |
| AU | 65,232 | 67 | 113 | 2.2 | 1,069.9 | 1,069.9 | 1,069.9 | 0.0 |

[1]Feet above confluence with Lake Allatoona

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**ALLATOONA CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Bishop Creek | | | | | | | | |
| A | 1,180 | 97 | 646 | 6.8 | 910.1 | 904.8[2] | 904.9 | 0.1 |
| B | 2,154 | 92 | 851 | 4.6 | 914.4 | 914.4 | 915.0 | 0.6 |
| C | 3,127 | 137 | 1,270 | 3.1 | 919.7 | 919.7 | 920.2 | 0.5 |
| D | 4,003 | 228 | 1,248 | 3.1 | 921.2 | 921.2 | 921.6 | 0.4 |
| E | 5,265 | 116 | 932 | 3.3 | 934.8 | 934.8 | 935.5 | 0.7 |
| F | 6,244 | 75 | 471 | 6.6 | 940.0 | 940.0 | 940.1 | 0.1 |
| G | 7,070 | 70 | 291 | 10.6 | 943.7 | 943.7 | 943.8 | 0.1 |
| H | 7,689 | 81 | 251 | 4.8 | 947.6 | 947.6 | 948.4 | 0.8 |
| I | 8,549 | 79 | 147 | 5.7 | 953.5 | 953.5 | 953.5 | 0.0 |
| J | 9,001 | 76 | 171 | 4.9 | 959.8 | 959.8 | 960.0 | 0.2 |
| K | 9,633 | 108 | 517 | 1.6 | 970.7 | 970.7 | 970.9 | 0.2 |
| L | 10,519 | 67 | 210 | 4.0 | 978.8 | 978.8 | 979.7 | 0.9 |
| Blackjack Creek | | | | | | | | |
| A | 526 | 178 | 1,988 | 3.1 | 999.2 | 999.2 | 999.7 | 0.5 |
| B | 2,230 | 195 | 1,078 | 5.7 | 1,004.1 | 1,004.1 | 1,005.1 | 1.0 |
| C | 3,271 | 161 | 1,543 | 3.6 | 1,012.9 | 1,012.9 | 1,013.2 | 0.3 |
| D | 4,370 | 183 | 1,242 | 4.5 | 1,015.4 | 1,015.4 | 1,016.0 | 0.6 |
| E | 6,064 | 185 | 1,047 | 2.5 | 1,027.3 | 1,027.3 | 1,027.3 | 0.0 |
| F | 7,007 | 227 | 1,166 | 2.3 | 1,032.3 | 1,032.3 | 1,032.9 | 0.6 |
| G | 8,203 | 97 | 361 | 5.8 | 1,036.0 | 1,036.0 | 1,036.2 | 0.2 |
| H | 9,012 | 84 | 179 | 4.2 | 1,044.5 | 1,044.5 | 1,044.5 | 0.0 |
| I | 10,071 | 91 | 550 | 1.4 | 1,065.1 | 1,065.1 | 1,066.1 | 1.0 |

[1]Feet above confluence with Sope Creek

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

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**BISHOP CREEK – BLACKJACK CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Butler Creek | | | | | | | | |
| A | 3,338 | 280 | 1,928 | 3.0 | 861.1 | 859.2[2] | 859.8 | 0.6 |
| B | 4,552 | 345 | 2,028 | 2.7 | 861.7 | 861.7 | 862.3 | 0.6 |
| C | 5,681 | 300 | 1,424 | 3.9 | 863.9 | 863.9 | 864.9 | 1.0 |
| D | 6,577 | 214 | 1,579 | 3.6 | 867.9 | 867.9 | 868.3 | 0.4 |
| E | 7,262 | 170 | 1,219 | 4.7 | 869.3 | 869.3 | 869.7 | 0.4 |
| F | 8,144 | 323 | 1,946 | 2.9 | 871.6 | 871.6 | 872.5 | 0.9 |
| G | 8,872 | 55 | 439 | 12.9 | 872.7 | 872.7 | 873.6 | 0.9 |
| H | 9,123 | 140 | 891 | 6.4 | 877.9 | 877.9 | 877.9 | 0.0 |
| I | 9,888 | 150 | 954 | 5.8 | 881.0 | 881.0 | 881.2 | 0.2 |
| J | 10,761 | 160 | 1,019 | 5.4 | 884.5 | 884.5 | 884.8 | 0.3 |
| K | 11,635 | 160 | 1,021 | 5.4 | 887.7 | 887.7 | 888.1 | 0.4 |
| L | 12,770 | 365 | 1,784 | 3.1 | 891.2 | 891.2 | 892.1 | 0.9 |
| M | 13,678 | 438 | 1,826 | 3.0 | 893.3 | 893.3 | 894.3 | 1.0 |
| N | 14,836 | 336 | 1,483 | 3.8 | 899.4 | 899.4 | 899.9 | 0.5 |
| O | 15,814 | 340 | 1,287 | 4.3 | 904.3 | 904.3 | 904.6 | 0.3 |
| P | 16,699 | 175 | 1,375 | 3.6 | 911.4 | 911.4 | 911.6 | 0.2 |
| Q | 17,667 | 200 | 1,172 | 4.2 | 913.3 | 913.3 | 914.3 | 1.0 |
| R | 18,374 | 255 | 1,128 | 4.0 | 915.2 | 915.2 | 915.7 | 0.5 |
| S | 19,331 | 250 | 1,150 | 3.9 | 918.6 | 918.6 | 919.6 | 1.0 |
| T | 20,249 | 139 | 496 | 9.1 | 922.7 | 922.7 | 923.5 | 0.8 |
| U | 21,663 | 150 | 826 | 5.5 | 932.3 | 932.3 | 932.5 | 0.2 |
| V | 22,504 | 260 | 2,475 | 1.8 | 934.2 | 934.2 | 935.2 | 1.0 |
| W | 23,208 | 337 | 1,394 | 3.2 | 939.6 | 939.6 | 939.6 | 0.0 |
| X | 23,908 | 156 | 1,213 | 3.7 | 945.1 | 945.1 | 945.4 | 0.3 |
| Y | 24,754 | 253 | 1,177 | 3.8 | 947.1 | 947.1 | 947.7 | 0.6 |
| Z | 25,389 | 120 | 806 | 5.3 | 953.0 | 953.0 | 953.3 | 0.3 |

[1]Feet above confluence with Lake Acworth

[2]Elevation computed without consideration of backwater effects from Lake Acworth

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**BUTLER CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Butler Creek (continued) | | | | | | | | |
| AA | 26,083[1] | 150 | 898 | 4.8 | 960.4 | 960.4 | 960.6 | 0.2 |
| AB | 27,098[1] | 99 | 1,338 | 2.7 | 971.5 | 971.5 | 971.6 | 0.1 |
| AC | 28,513[1] | 100 | 616 | 4.6 | 972.8 | 972.8 | 972.9 | 0.1 |
| AD | 29,444[1] | 75 | 569 | 4.9 | 974.8 | 974.8 | 975.6 | 0.8 |
| AE | 30,501[1] | 160 | 1,136 | 2.5 | 979.7 | 979.7 | 980.3 | 0.6 |
| AF | 31,370[1] | 53 | 347 | 8.1 | 983.7 | 983.7 | 983.9 | 0.2 |
| AG | 32,194[1] | 112 | 592 | 4.7 | 990.1 | 990.1 | 990.2 | 0.1 |
| AH | 33,093[1] | 165 | 971 | 3.3 | 997.8 | 997.8 | 998.2 | 0.4 |
| AI | 33,879[1] | 45 | 237 | 7.7 | 1,001.1 | 1,001.1 | 1,002.1 | 1.0 |
| AJ | 34,567[1] | 65 | 387 | 4.7 | 1,007.9 | 1,007.9 | 1,008.2 | 0.3 |
| AK | 35,417[1] | 37 | 196 | 9.4 | 1,015.5 | 1,015.5 | 1,015.9 | 0.4 |
| AL | 36,273[1] | 42 | 169 | 6.0 | 1,027.3 | 1,027.3 | 1,027.4 | 0.1 |
| Buttermilk Creek | | | | | | | | |
| A | 1,584[2] | 380 | 3,866 | 1.1 | 891.9 | 884.1[3] | 884.9 | 0.8 |
| B | 2,376[2] | 600 | 4,487 | 1.0 | 891.9 | 884.3[3] | 885.1 | 0.8 |
| C | 5,227[2] | 190 | 1,005 | 3.8 | 891.9 | 890.6[3] | 891.6 | 1.0 |
| D | 7,181[2] | 100 | 747 | 5.6 | 898.0 | 898.0 | 898.9 | 0.9 |
| E | 7,920[2] | 200 | 1,380 | 2.5 | 902.3 | 902.3 | 903.1 | 0.8 |
| F | 8,237[2] | 50 | 532 | 6.6 | 902.9 | 902.9 | 903.7 | 0.8 |
| G | 9,293[2] | 130 | 876 | 3.8 | 906.7 | 906.7 | 907.6 | 0.9 |
| H | 10,666[2] | 87 | 755 | 4.7 | 909.8 | 909.8 | 910.8 | 1.0 |
| I | 11,299[2] | 223 | 1,898 | 1.7 | 917.3 | 917.3 | 918.2 | 0.9 |
| J | 12,989[2] | 321 | 1,559 | 2.1 | 919.2 | 919.2 | 920.2 | 1.0 |

[1]Feet above confluence with Lake Acworth
[2]Feet above confluence with Sweetwater Creek
[3]Elevation computed without consideration of backwater effects from Sweetwater Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**BUTLER CREEK – BUTTERMILK CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Buttermilk Creek (continued) | | | | | | | | |
| K | 15,576[1] | 90 | 474 | 4.0 | 930.5 | 930.5 | 931.4 | 0.9 |
| L | 17,266[1] | 63 | 304 | 6.2 | 936.9 | 936.9 | 937.8 | 0.9 |
| M | 19,114[1] | 22 | 97 | 11.0 | 946.4 | 946.4 | 946.4 | 0.0 |
| N | 21,542[1] | 60 | 123 | 6.9 | 971.3 | 971.3 | 971.6 | 0.3 |
| O | 21,648[1] | 60 | 146 | 5.8 | 977.4 | 977.4 | 977.8 | 0.4 |
| P | 23,074[1] | 60 | 140 | 6.0 | 994.4 | 994.4 | 994.6 | 0.2 |
| Campground Creek | | | | | | | | |
| A | 1,460[2] | 115 | 401 | 3.9 | 931.1 | 920.6[3] | 921.4 | 0.8 |
| B | 3,310[2] | 92 | 313 | 3.7 | 936.1 | 936.1 | 936.8 | 0.7 |
| C | 4,461[2] | 59 | 304 | 3.8 | 955.1 | 955.1 | 956.1 | 1.0 |
| D | 6,068[2] | 24 | 100 | 11.6 | 969.9 | 969.9 | 969.9 | 0.0 |
| E | 6,732[2] | 23 | 78 | 10.4 | 987.9 | 987.9 | 988.3 | 0.4 |
| F | 7,358[2] | 59 | 133 | 6.1 | 1,001.3 | 1,001.3 | 1,001.5 | 0.2 |
| G | 7,794[2] | 34 | 69 | 5.4 | 1,007.1 | 1,007.1 | 1,007.6 | 0.5 |
| H | 8,358[2] | 26 | 48 | 7.8 | 1,019.2 | 1,019.2 | 1,019.2 | 0.0 |
| I | 8,949[2] | 35 | 58 | 6.4 | 1,032.0 | 1,032.0 | 1,032.0 | 0.0 |
| J | 9,651[2] | 51 | 82 | 4.5 | 1,049.3 | 1,049.3 | 1,049.3 | 0.0 |
| K | 9,997[2] | 15 | 43 | 8.7 | 1,057.2 | 1,057.2 | 1,057.2 | 0.0 |

[1]Feet above confluence with Sweetwater Creek
[2]Feet above confluence with Sope Creek
[3]Elevation computed without consideration of backwater effects from Sope Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**BUTTERMILK CREEK – CAMPGROUND CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET)[2] | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Chattahoochee River | | | | | | | | |
| CD | 91.05 | 673\497 | 12,006 | 3.6 | 759.7 | 759.7 | 760.4 | 0.7 |
| CE | 91.41 | 681\450 | 15,600 | 2.7 | 760.1 | 760.1 | 760.8 | 0.7 |
| CF | 93.59 | 350\142 | 9,360 | 4.5 | 761.7 | 761.7 | 762.5 | 0.8 |
| CG | 93.77 | 582\217 | 12,057 | 3.5 | 762.4 | 762.4 | 763.2 | 0.8 |
| CH | 94.44 | 463\196 | 10,987 | 3.8 | 763.0 | 763.0 | 763.7 | 0.7 |
| CI | 94.49 | 445\199 | 11,631 | 3.6 | 763.4 | 763.4 | 763.9 | 0.5 |
| CJ | 96.09 | 724\376 | 10,963 | 3.7 | 764.3 | 764.3 | 765.1 | 0.8 |
| CK | 96.26 | 537\153 | 11,602 | 3.5 | 764.5 | 764.5 | 765.3 | 0.8 |
| CL | 96.46 | 604\137 | 13,781 | 2.9 | 765.1 | 765.1 | 765.9 | 0.8 |
| CM | 97.40 | 742\429 | 13,467 | 2.9 | 766.5 | 766.5 | 767.3 | 0.8 |
| CN | 97.66 | 373\102 | 9,000 | 4.4 | 766.9 | 766.9 | 767.6 | 0.7 |
| CO | 97.91 | 441\175 | 10,322 | 3.8 | 767.2 | 767.2 | 767.8 | 0.6 |
| CP | 98.03 | 1721\659 | 15,691 | 2.5 | 770.2 | 770.2 | 770.8 | 0.6 |
| CQ | 98.52 | 680\271 | 14,924 | 2.7 | 770.6 | 770.6 | 771.2 | 0.6 |
| CR | 98.68 | 549\246 | 12,176 | 3.2 | 770.8 | 770.8 | 771.3 | 0.5 |
| CS | 99.63 | 232\97 | 7,416 | 5.3 | 771.6 | 771.6 | 772.3 | 0.7 |
| CT | 99.92 | 753\394 | 13,772 | 2.9 | 772.3 | 772.3 | 773.0 | 0.7 |
| CU | 100.25 | 554\330 | 10,041 | 3.9 | 772.5 | 772.5 | 773.3 | 0.8 |
| CV | 100.39 | 526\387 | 12,368 | 3.2 | 773.1 | 773.1 | 773.9 | 0.8 |
| CW | 100.49 | 505\238 | 15,412 | 2.6 | 773.4 | 773.4 | 774.1 | 0.7 |
| CX | 101.06 | 1390\300 | 22,463 | 1.5 | 773.7 | 773.7 | 774.4 | 0.7 |
| CY | 101.75 | 1464\1033 | 22,344 | 1.5 | 774.6 | 774.6 | 775.2 | 0.6 |
| CZ | 102.29 | 694\360 | 15,032 | 2.3 | 775.2 | 775.2 | 776.0 | 0.8 |
| DA | 102.79 | 375\250 | 7,629 | 4.5 | 775.5 | 775.5 | 776.4 | 0.9 |
| DB | 102.92 | 380\160 | 8,477 | 4.1 | 775.8 | 775.8 | 776.8 | 1.0 |
| DC | 103.01 | 310\156 | 8,356 | 4.1 | 776.4 | 776.4 | 777.3 | 0.9 |
| DD | 103.52 | 428\400 | 8,165 | 4.2 | 777.3 | 777.3 | 778.2 | 0.9 |

[1] Miles from West Point Dam
[2] Total Width\Width Inside the County

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**CHATTAHOOCHEE RIVER**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET)[2] | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Chattahoochee River (continued) | | | | | | | | |
| DE | 103.70 | 394\243 | 8,406 | 4.1 | 778.5 | 778.5 | 778.7 | 0.2 |
| DF | 104.06 | 720\390 | 13,209 | 2.6 | 779.1 | 779.1 | 779.4 | 0.3 |
| DG | 104.28 | 950\578 | 14,457 | 2.4 | 779.3 | 779.3 | 779.6 | 0.3 |
| DH | 104.36 | 1078\655 | 16,324 | 2.1 | 781.3 | 781.3 | 781.6 | 0.3 |
| DI | 104.55 | 960\440 | 14,241 | 2.3 | 781.5 | 781.5 | 781.8 | 0.3 |
| DJ | 105.15 | 578\257 | 8,320 | 4.0 | 782.9 | 782.9 | 783.3 | 0.4 |
| DK | 105.32 | 224\131 | 3,252 | 10.2 | 783.2 | 783.2 | 783.5 | 0.3 |
| DL | 105.40 | 191\125 | 3,177 | 10.5 | 784.3 | 784.3 | 784.7 | 0.4 |
| DM | 105.46 | 433\245 | 6,639 | 5.0 | 786.2 | 786.2 | 786.7 | 0.5 |
| DN | 105.74 | 449\303 | 6,026 | 5.5 | 787.0 | 787.0 | 787.5 | 0.5 |
| DO | 105.99 | 344\233 | 4,547 | 7.3 | 788.0 | 788.0 | 788.4 | 0.4 |
| DP | 106.25 | 389\215 | 4,666 | 7.1 | 789.6 | 789.6 | 789.9 | 0.3 |
| DQ | 106.53 | 284\207 | 4,220 | 7.9 | 792.4 | 792.4 | 792.6 | 0.2 |
| DR | 106.91 | 583\436 | 6,912 | 4.8 | 794.5 | 794.5 | 794.8 | 0.3 |
| DS | 107.22 | 330\231 | 3,756 | 8.8 | 795.3 | 795.3 | 795.6 | 0.3 |
| DT | 107.55 | 414\241 | 5,181 | 6.4 | 798.0 | 798.0 | 798.2 | 0.2 |
| DU | 108.17 | 264\167 | 4,303 | 7.7 | 800.4 | 800.4 | 800.6 | 0.2 |
| DV | 108.48 | 329\136 | 4,831 | 6.9 | 802.2 | 802.2 | 802.4 | 0.2 |
| DW | 109.05 | 323\159 | 4,868 | 6.4 | 804.2 | 804.2 | 804.6 | 0.4 |
| DX | 110.43 | 289\137 | 4,722 | 6.6 | 807.6 | 807.6 | 808.1 | 0.5 |
| DY | 110.55 | 288\141 | 4,980 | 6.3 | 808.9 | 808.9 | 809.4 | 0.5 |
| DZ | 112.43 | 254\177 | 4,882 | 6.4 | 812.1 | 812.1 | 812.7 | 0.6 |
| EA | 112.74 | 973\501 | 5,086 | 6.1 | 854.8 | 854.8 | 854.8 | 0.0 |
| EB | 112.86 | 879\421 | 5,297 | 5.8 | 856.1 | 856.1 | 856.1 | 0.0 |
| EC | 113.19 | 912\673 | 7,790 | 4.0 | 857.8 | 857.8 | 857.8 | 0.0 |

[1] Miles from West Point Dam
[2] Total Width\Width Inside the County

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**CHATTAHOOCHEE RIVER**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET)[2] | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Chattahoochee River (continued) | | | | | | | | |
| ED | 114.16[1] | 297\242 | 4,048 | 7.6 | 859.6 | 859.6 | 859.7 | 0.1 |
| EE | 114.49[1] | 490\327 | 6,279 | 4.9 | 860.9 | 860.9 | 861.4 | 0.5 |
| Clay Branch | | | | | | | | |
| A | 1,373[2] | 37 | 310 | 6.7 | 927.7 | 927.7 | 928.6 | 0.9 |
| B | 2,640[2] | 110 | 607 | 3.4 | 935.0 | 935.0 | 936.0 | 1.0 |
| C | 4,488[2] | 105 | 849 | 1.3 | 950.9 | 950.9 | 951.9 | 1.0 |
| D | 5,438[2] | 95 | 197 | 5.5 | 956.5 | 956.5 | 956.5 | 0.0 |
| E | 7,445[2] | 33 | 106 | 4.0 | 982.8 | 982.8 | 983.8 | 1.0 |
| Concord Creek | | | | | | | | |
| A | 327[3] | 55 | 378 | 6.6 | 893.6 | 893.0[4] | 893.2 | 0.2 |
| B | 420[3] | 98 | 397 | 6.3 | 896.2 | 896.2 | 896.3 | 0.1 |
| C | 1,533[3] | 82 | 390 | 6.4 | 900.3 | 900.3 | 900.8 | 0.5 |
| D | 2,251[3] | 50 | 227 | 10.9 | 919.4 | 919.4 | 919.4 | 0.0 |
| E | 2,762[3] | 125 | 442 | 8.4 | 922.6 | 922.6 | 922.7 | 0.1 |
| F | 2,838[3] | 125 | 658 | 5.2 | 924.5 | 924.5 | 924.5 | 0.0 |
| G | 3,246[3] | 148 | 503 | 5.8 | 925.3 | 925.3 | 925.4 | 0.1 |
| H | 3,405[3] | 85 | 767 | 3.2 | 932.3 | 932.3 | 932.3 | 0.0 |
| I | 4,763[3] | 279 | 645 | 3.0 | 934.2 | 934.2 | 934.2 | 0.0 |
| J | 5,414[3] | 96 | 298 | 6.6 | 938.4 | 938.4 | 938.4 | 0.0 |
| K | 5,559[3] | 100 | 536 | 3.6 | 941.6 | 941.6 | 941.6 | 0.0 |
| L | 5,612[3] | 220 | 908 | 2.1 | 942.0 | 942.0 | 942.0 | 0.0 |
| M | 5,945[3] | 195 | 621 | 4.2 | 942.9 | 942.9 | 942.9 | 0.0 |
| N | 6,492[3] | 153 | 315 | 4.4 | 945.0 | 945.0 | 945.3 | 0.3 |

[1] Miles from West Point Dam
[2] Feet above confluence with Buttermilk Creek
[3] Feet above confluence with Nickajack Creek
[4] Elevation computed without consideration of backwater effects from Nickajack Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**CHATTAHOOCHEE RIVER – CLAY BRANCH – CONCORD CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Concord Creek( Continue) | | | | | | | | |
| O | 7,052[1] | 27 | 131 | 10.6 | 951.2 | 951.2 | 951.2 | 0.0 |
| P | 7,211[1] | 31 | 154 | 9.0 | 959.3 | 959.3 | 959.8 | 0.5 |
| Q | 7,832[1] | 59 | 223 | 6.2 | 968.6 | 968.6 | 968.6 | 0.0 |
| R | 8,051[1] | 117 | 1,128 | 1.2 | 979.9 | 979.9 | 980.4 | 0.5 |
| S | 8,683[1] | 33 | 201 | 3.4 | 980.9 | 980.9 | 981.5 | 0.6 |
| T | 8,777[1] | 107 | 935 | 0.7 | 986.9 | 986.9 | 987.6 | 0.7 |
| U | 9,532[1] | 19 | 65 | 10.5 | 989.0 | 989.0 | 989.4 | 0.4 |
| V | 9,649[1] | 41 | 229 | 3.0 | 995.5 | 995.5 | 995.5 | 0.0 |
| W | 10,375[1] | 34 | 87 | 7.8 | 999.5 | 999.5 | 999.5 | 0.0 |
| X | 10,461[1] | 170 | 154 | 4.4 | 1,004.3 | 1,004.3 | 1,004.2 | 0.0 |
| Cooper Lake Creek | | | | | | | | |
| A | 284[1] | 156 | 72 | 7.5 | 824.6 | 814.0[2] | 814.0 | 0.0 |
| B | 1,554[1] | 38 | 91 | 5.9 | 824.6 | 823.8[2] | 824.0 | 0.2 |
| C | 1,796[1] | 18 | 70 | 7.8 | 827.6 | 827.6 | 827.6 | 0.0 |
| D | 1,992[1] | 35 | 221 | 2.4 | 829.4 | 829.4 | 829.4 | 0.0 |
| E | 2,255[1] | 77 | 531 | 6.2 | 835.2 | 835.2 | 836.1 | 0.9 |
| F | 2,376[1] | 93 | 914 | 3.6 | 840.1 | 840.1 | 840.9 | 0.8 |
| G | 4,205[1] | 56 | 301 | 10.3 | 855.3 | 855.3 | 855.5 | 0.2 |
| H | 4,689[1] | 112 | 824 | 3.8 | 860.1 | 860.1 | 860.4 | 0.3 |
| I | 5,312[1] | 52 | 332 | 9.3 | 860.7 | 860.7 | 861.6 | 0.9 |
| J | 6,470[1] | 85 | 359 | 8.6 | 872.0 | 872.0 | 872.2 | 0.2 |
| K | 6,586[1] | 100 | 1,337 | 2.3 | 880.8 | 880.8 | 881.5 | 0.7 |
| L | 7,263[1] | 35 | 199 | 13.7 | 886.5 | 886.5 | 886.6 | 0.1 |
| M | 7,587[1] | 63 | 365 | 7.5 | 889.7 | 889.7 | 890.4 | 0.7 |
| N | 7,670[1] | 115 | 831 | 3.3 | 892.2 | 892.2 | 892.4 | 0.2 |

1Feet above confluence with Nickajack Creek
[2]Elevation computed without consideration of backwater effects from Nickajack Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**CONCORD CREEK– COOPERLAKE CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Davis Branch | | | | | | | | |
| A | 528[1] | 63 | 269 | 1.5 | 937.5 | 937.5 | 937.5 | 0.0 |
| B | 950[1] | 52 | 93 | 4.5 | 950.4 | 950.4 | 951.2 | 0.8 |
| C | 1,373[1] | 25 | 99 | 4.2 | 953.5 | 953.5 | 954.5 | 1.0 |
| D | 2,112[1] | 20 | 40 | 5.5 | 967.7 | 967.7 | 967.7 | 0.0 |
| Due West Creek | | | | | | | | |
| A | 436[2] | 235 | 838 | 3.6 | 894.4 | 892.8[4] | 893.4 | 0.6 |
| B | 1,731[2] | 235 | 1,080 | 2.8 | 900.9 | 900.9 | 901.7 | 0.8 |
| C | 2,776[2] | 220 | 1,087 | 2.8 | 907.4 | 907.4 | 907.9 | 0.5 |
| D | 3,672[2] | 210 | 1,074 | 2.9 | 911.8 | 911.8 | 912.5 | 0.7 |
| E | 4,608[2] | 80 | 580 | 5.3 | 918.7 | 918.7 | 918.9 | 0.2 |
| F | 4,818[2] | 80 | 582 | 5.3 | 918.7 | 918.7 | 919.0 | 0.3 |
| G | 6,141[2] | 190 | 1,061 | 2.9 | 925.9 | 925.9 | 926.9 | 1.0 |
| H | 7,355[2] | 295 | 1,136 | 2.5 | 933.1 | 933.1 | 934.1 | 1.0 |
| I | 8,061[2] | 270 | 1,035 | 2.7 | 937.4 | 937.4 | 938.4 | 1.0 |
| J | 8,883[2] | 270 | 1,040 | 2.8 | 941.9 | 941.9 | 942.7 | 0.8 |
| K | 10,005[2] | 190 | 954 | 2.8 | 951.8 | 951.8 | 952.3 | 0.5 |
| L | 11,400[2] | 112 | 174 | 4.8 | 957.9 | 957.9 | 957.9 | 0.0 |
| M | 12,096[2] | 65 | 128 | 6.5 | 966.2 | 966.2 | 966.2 | 0.0 |
| N | 12,746[2] | 30 | 126 | 6.4 | 977.4 | 977.4 | 977.7 | 0.3 |
| O | 13,447[2] | 30 | 122 | 6.6 | 988.1 | 988.1 | 988.4 | 0.3 |
| Eastside Creek | | | | | | | | |
| A | 1,178[3] | 30 | 154 | 6.0 | 920.3 | 915.3[5] | 915.3 | 0.0 |
| B | 1,731[3] | 190 | 2,036 | 0.5 | 929.3 | 929.3 | 929.4 | 0.1 |
| C | 3,959[3] | 40 | 118 | 8.8 | 941.1 | 941.1 | 941.3 | 0.2 |

[1]Feet above confluence with Pine Creek
[2]Feet above confluence with Allatoona Creek
[3]Feet above confluence with Sope Creek
[4]Elevation computed without consideration of backwater effects from Allatoona Creek
[5]Elevation computed without consideration of backwater effects from Sope Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**DAVIS BRANCH – DUE WEST CREEK– EASTSIDE CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Elizabeth Branch | | | | | | | | |
| A | 1,209[1] | 220 | 746 | 4.5 | 1,008.7 | 1,008.7 | 1,009.2 | 0.5 |
| B | 2,402[1] | 76 | 614 | 4.5 | 1,023.3 | 1,023.3 | 1,023.6 | 0.3 |
| C | 3,650[1] | 129 | 709 | 3.9 | 1,035.8 | 1,035.8 | 1,036.2 | 0.4 |
| D | 4,718[1] | 76 | 385 | 1.7 | 1,059.0 | 1,059.0 | 1,059.0 | 0.0 |
| E | 6,238[1] | 32 | 82 | 8.1 | 1,081.7 | 1,081.7 | 1,081.8 | 0.1 |
| Favor Creek | | | | | | | | |
| A | 897[2] | 15 | 61 | 9.4 | 912.6 | 906.5[2] | 906.5 | 0.0 |
| B | 1,795[2] | 31 | 68 | 8.5 | 914.6 | 914.6 | 914.7 | 0.1 |
| C | 2,682[2] | 36 | 153 | 3.8 | 920.3 | 920.3 | 920.6 | 0.3 |
| D | 2,764[2] | 19 | 215 | 2.7 | 929.0 | 929.0 | 929.0 | 0.0 |
| E | 3,015[2] | 18 | 180 | 3.2 | 929.1 | 929.1 | 929.1 | 0.0 |
| F | 3,074[2] | 206 | 722 | 2.3 | 935.1 | 935.1 | 935.1 | 0.0 |
| G | 3,731[2] | 61 | 288 | 1.4 | 935.2 | 935.2 | 935.2 | 0.0 |
| H | 4,554[2] | 15 | 70 | 6.0 | 936.5 | 936.5 | 936.5 | 0.0 |
| I | 4,618[2] | 27 | 53 | 8.0 | 940.6 | 940.6 | 940.6 | 0.0 |
| J | 6,962[2] | 32 | 162 | 8.7 | 965.0 | 965.0 | 965.8 | 0.8 |
| K | 7,985[2] | 24 | 176 | 9.6 | 989.3 | 989.3 | 989.3 | 0.0 |
| L | 8,098[2] | 119 | 719 | 1.9 | 1,001.4 | 1,001.4 | 1,001.4 | 0.0 |

[1]Feet above confluence with Sope Creek
[2]Feet above confluence with Nickajack Creek
[3]Elevation computed without consideration of backwater effects from Nickajack Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**ELIZABETH BRANCH – FAVOR CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Florence Branch | | | | | | | | |
| A | 1,056[1] | 132 | 639 | 3.2 | 912.0 | 912.0 | 912.5 | 0.5 |
| B | 1,426[1] | 215 | 1,861 | 1.1 | 914.4 | 914.4 | 914.8 | 0.4 |
| C | 2,904[1] | 399 | 2,695 | 0.8 | 914.7 | 914.7 | 915.4 | 0.7 |
| D | 5,280[1] | 229 | 1,420 | 1.4 | 917.5 | 917.5 | 918.2 | 0.7 |
| E | 6,864[1] | 165 | 639 | 2.8 | 924.0 | 924.0 | 924.2 | 0.2 |
| F | 9,029[1] | 305 | 1,226 | 1.5 | 931.0 | 931.0 | 931.9 | 0.9 |
| G | 10,560[1] | 216 | 1,710 | 0.9 | 936.4 | 936.4 | 937.3 | 0.9 |
| H | 10,718[1] | 218 | 1,730 | 0.9 | 936.4 | 936.4 | 937.3 | 0.9 |
| I | 13,094[1] | 118 | 226 | 6.1 | 942.1 | 942.1 | 942.1 | 0.0 |
| J | 16,051[1] | 48 | 301 | 3.4 | 957.3 | 957.3 | 958.3 | 1.0 |
| K | 17,899[1] | 35 | 179 | 5.7 | 965.0 | 965.0 | 965.6 | 0.6 |
| L | 21,226[1] | 83 | 341 | 3.0 | 988.9 | 988.9 | 989.7 | 0.8 |
| Gilmore Creek | | | | | | | | |
| A | 3,010[2] | 228 | 753 | 2.1 | 774.4 | 771.6[5] | 772.6 | 1.0 |
| B | 3,643[2] | 53 | 228 | 6.2 | 775.0 | 775.0 | 775.4 | 0.4 |
| C | 4,646[2] | 36 | 264 | 5.4 | 784.6 | 784.6 | 785.0 | 0.4 |
| Gordon Branch | | | | | | | | |
| A | 634[3] | 25 | 99 | 6.3 | 920.1 | 920.1 | 920.4 | 0.3 |
| B | 1,478[3] | 44 | 84 | 5.9 | 933.7 | 933.7 | 933.7 | 0.0 |
| C | 2,587[3] | 17 | 60 | 5.7 | 960.7 | 960.7 | 961.3 | 0.6 |
| Gordon Creek | | | | | | | | |
| A | 7,920[4] | 63 | 380 | 5.8 | 911.2 | 911.2 | 911.8 | 0.6 |
| B | 10,454[4] | 129 | 487 | 3.4 | 926.0 | 926.0 | 926.8 | 0.8 |
| C | 13,042[4] | 120 | 348 | 4.1 | 949.5 | 949.5 | 949.7 | 0.2 |
| D | 15,576[4] | 53 | 252 | 4.2 | 965.3 | 965.3 | 966.3 | 1.0 |
| E | 16,262[4] | 61 | 251 | 4.2 | 971.5 | 971.5 | 972.3 | 0.8 |

[1]Feet above confluence with Powder Springs Creek

[2]Feet above confluence with Chattahoochee River

[3]Feet above confluence with Gordon Creek

[4]Feet above confluence with Sweetwater Creek

[5]Elevation Computed without consideration of backwater effects from Chattahoochee River

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**FLORENCE BRANCH – GILMORE CREEK – GORDON BRANCH**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Gordon Creek | | | | | | | | |
| F | 17,371[1] | 16 | 98 | 7.9 | 985.3 | 985.3 | 985.5 | 0.2 |
| Gothards Creek | | | | | | | | |
| A | 3,696[1] | 496 | 2,403 | 2.1 | 905.1 | 895.4[3] | 896.4 | 1.0 |
| B | 7,697[1] | 256 | 1,675 | 3.3 | 905.1 | 902.2[3] | 903.2 | 1.0 |
| C | 10,212[1] | 339 | 2,289 | 2.4 | 905.1 | 904.8[3] | 905.4 | 0.6 |
| Harmony Grove Creek | | | | | | | | |
| A | 716[2] | 165 | 763 | 1.8 | 899.9 | 899.9 | 900.2 | 0.3 |
| B | 758[2] | 183 | 980 | 1.4 | 900.8 | 900.8 | 901.5 | 0.7 |
| C | 899[2] | 156 | 783 | 1.8 | 900.9 | 900.9 | 901.6 | 0.7 |
| D | 920[2] | 173 | 975 | 1.4 | 901.7 | 901.7 | 902.4 | 0.7 |
| E | 1,065[2] | 141 | 279 | 5.1 | 902.1 | 902.1 | 902.3 | 0.2 |
| F | 1,146[2] | 510 | 6,789 | 0.2 | 913.4 | 913.4 | 913.4 | 0.0 |
| G | 2,147[2] | 41 | 200 | 4.9 | 913.2 | 913.2 | 913.2 | 0.0 |
| H | 2,237[2] | 40 | 224 | 4.4 | 915.2 | 915.2 | 915.2 | 0.0 |
| I | 2608[2] | 50 | 126 | 7.7 | 917.4 | 917.4 | 917.6 | 0.2 |
| J | 3,322[2] | 18 | 81 | 12.1 | 934.1 | 934.1 | 934.3 | 0.2 |
| K | 3,361[2] | 34 | 163 | 6.0 | 936.5 | 936.5 | 936.8 | 0.3 |
| L | 3,777[2] | 66 | 282 | 3.5 | 938.8 | 938.8 | 938.9 | 0.0 |
| M | 3,856[2] | 77 | 273 | 3.6 | 939.3 | 939.3 | 939.3 | 0.0 |
| N | 4,571[2] | 19 | 91 | 9.0 | 941.3 | 941.3 | 942.2 | 0.9 |
| O | 4,640[2] | 25 | 117 | 7.0 | 942.6 | 942.6 | 943.3 | 0.7 |

[1]Feet above confluence with Sweetwater Creek
[2]Feet above confluence with Willeo Creek
[3]Elevation computed without consideration of backwater effects from Sweetwater Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**GORDON CREEK – GOTHARDS CREEK – HARMONY GROVE CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Harmony Grove Creek (Continue) | | | | | | | | |
| P | 5,155[1] | 26 | 102 | 8.0 | 945.8 | 945.8 | 945.8 | 0.0 |
| Q | 5,408[1] | 40 | 148 | 5.6 | 948.3 | 948.3 | 948.8 | 0.5 |
| R | 5,518[1] | 25 | 141 | 5.8 | 950.1 | 950.1 | 950.5 | 0.3 |
| S | 6,569[1] | 30 | 73 | 8.6 | 968.5 | 968.5 | 968.6 | 0.2 |
| T | 6,953[1] | 24 | 66 | 9.4 | 981.8 | 981.8 | 981.8 | 0.0 |
| U | 7,582[1] | 71 | 104 | 6.0 | 1,020.8 | 1,020.8 | 1,020.8 | 0.1 |
| V | 7,931[1] | 25 | 96 | 6.5 | 1,030.8 | 1,030.8 | 1,030.8 | 0.0 |
| W | 8,010[1] | 25 | 173 | 3.6 | 1,034.1 | 1,034.1 | 1,034.7 | 0.6 |
| X | 8,472[1] | 86 | 479 | 1.3 | 1,034.5 | 1,034.5 | 1,035.2 | 0.7 |
| Y | 9,897[1] | 28 | 77 | 1.6 | 1,048.3 | 1,048.3 | 1,049.3 | 1.0 |
| Z | 10,031[1] | 60 | 204 | 0.6 | 1,052.3 | 1,052.3 | 1,052.4 | 0.0 |
| Hope Creek | | | | | | | | |
| A | 1,084[2] | 47 | 336 | 8.3 | 939.9 | 937.4[3] | 938.1 | 0.7 |
| B | 3,785[2] | 108 | 656 | 3.5 | 952.3 | 952.3 | 952.7 | 0.4 |
| C | 6,278[2] | 52 | 203 | 8.8 | 972.6 | 972.6 | 972.6 | 0.0 |
| D | 8,000[2] | 39 | 168 | 8.3 | 1,004.0 | 1,004.0 | 1,004.7 | 0.7 |

[1]Feet above confluence with Willeo Creek
[2]Feet above confluence with Rottenwood Creek
[3]Elevation computed without consideration of backwater effects from Rottenwood Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**HARMONY GROVE CREEK – HOPE CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Laurel Creek | | | | | | | | |
| A | 99 | 33 | 199 | 7.4 | 802.0 | 790.0[2] | 790.9 | 0.9 |
| B | 260 | 45 | 349 | 4.6 | 802.0 | 799.1[2] | 799.1 | 0.0 |
| C | 1,291 | 17 | 210 | 7.5 | 802.0 | 800.5[2] | 800.7 | 0.2 |
| D | 1,566 | 93 | 599 | 4.0 | 804.0 | 804.0 | 804.0 | 0.0 |
| E | 2,989 | 125 | 592 | 5.2 | 812.6 | 812.6 | 813.2 | 0.6 |
| F | 3,248 | 87 | 588 | 5.2 | 816.8 | 816.8 | 817.7 | 0.9 |
| G | 4,263 | 90 | 373 | 10.2 | 828.7 | 828.7 | 828.7 | 0.0 |
| H | 4,604 | 88 | 946 | 4.1 | 837.6 | 837.6 | 837.6 | 0.0 |
| I | 5,259 | 45 | 311 | 11.6 | 839.0 | 839.0 | 839.0 | 0.0 |
| J | 5,396 | 85 | 683 | 5.3 | 845.5 | 845.5 | 845.6 | 0.1 |
| K | 6,604 | 101 | 751 | 4.8 | 859.5 | 859.5 | 860.5 | 1.0 |
| L | 6,706 | 51 | 508 | 7.1 | 864.0 | 864.0 | 864.2 | 0.2 |
| M | 6,761 | 204 | 1,439 | 2.5 | 864.8 | 864.8 | 865.7 | 0.9 |
| N | 6,851 | 553 | 2,194 | 1.7 | 873.0 | 873.0 | 873.0 | 0.0 |
| O | 10,295 | 288 | 735 | 2.7 | 875.4 | 875.4 | 875.4 | 0.0 |
| P | 10,569 | 179 | 322 | 6.1 | 877.2 | 877.2 | 877.3 | 0.1 |
| Q | 10,647 | 153 | 458 | 4.3 | 878.0 | 878.0 | 878.9 | 0.9 |
| R | 12,393 | 101 | 652 | 2.1 | 885.3 | 885.3 | 886.3 | 1.0 |
| S | 12,646 | 31 | 235 | 5.9 | 887.1 | 887.1 | 888.1 | 1.0 |
| T | 13,433 | 104 | 870 | 3.6 | 897.1 | 897.1 | 897.7 | 0.6 |
| U | 14,120 | 212 | 561 | 5.5 | 899.0 | 899.0 | 899.0 | 0.0 |
| V | 14,609[1] | 175 | 592 | 3.6 | 901.4 | 901.4 | 901.4 | 0.0 |
| W | 14,705[1] | 143 | 500 | 4.3 | 901.5 | 901.5 | 902.2 | 0.7 |
| X | 15,025[1] | 57 | 239 | 9.0 | 904.1 | 904.1 | 904.1 | 0.0 |
| Y | 15,742[1] | 28 | 206 | 10.5 | 920.6 | 920.6 | 921.2 | 0.6 |
| Z | 15,841[1] | 73 | 768 | 2.8 | 928.9 | 928.9 | 929.7 | 0.8 |

[1]Feet above confluence with Nickajack Creek
[2]Elevation computed without consideration of backwater effects from Nickajack Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**LAUREL CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Laurel Creek (Continued) | | | | | | | | |
| AA | 15,931[1] | 85 | 795 | 2.7 | 929.0 | 929.0 | 929.7 | 0.7 |
| AB | 16,157[1] | 65 | 466 | 4.6 | 929.1 | 929.1 | 929.7 | 0.6 |
| AC | 16,863[1] | 162 | 427 | 5.0 | 932.5 | 932.5 | 932.7 | 0.2 |
| AD | 16,939[1] | 182 | 694 | 3.1 | 933.8 | 933.8 | 933.8 | 0.0 |
| AE | 18,598[1] | 37 | 137 | 2.1 | 953.9 | 953.9 | 954.5 | 0.6 |
| AF | 18,668[1] | 37 | 147 | 2.0 | 958.2 | 958.2 | 958.3 | 0.1 |
| AG | 19,414[1] | 13 | 38 | 9.5 | 971.0 | 971.0 | 971.8 | 0.8 |
| AH | 19,484[1] | 45 | 226 | 1.2 | 979.1 | 979.1 | 979.2 | 0.1 |
| Liberty Hill Branch | | | | | | | | |
| A | 268[2] | 110 | 138 | 5.3 | 773.9 | 762.3[3] | 762.6 | 0.3 |
| B | 364[2] | 52 | 318 | 2.4 | 773.9 | 766.2[3] | 766.2 | 0.0 |
| C | 821[2] | 87 | 112 | 6.5 | 773.9 | 766.4[3] | 766.9 | 0.5 |
| D | 1,195[2] | 24 | 76 | 9.5 | 774.1 | 774.1 | 774.1 | 0.0 |
| E | 1,286[2] | 71 | 374 | 2.9 | 779.4 | 779.4 | 779.7 | 0.3 |
| F | 1,363[2] | 57 | 290 | 2.5 | 779.6 | 779.6 | 780.0 | 0.4 |
| G | 1,727[2] | 29 | 82 | 8.9 | 782.4 | 782.4 | 783.3 | 0.9 |
| H | 1,908[2] | 23 | 72 | 10.0 | 788.2 | 788.2 | 788.2 | 0.0 |
| I | 2,042[2] | 28 | 179 | 4.1 | 793.4 | 793.4 | 793.4 | 0.0 |
| J | 2,544[2] | 17 | 82 | 8.8 | 814.8 | 814.8 | 814.8 | 0.0 |
| K | 2,653[2] | 30 | 406 | 0.8 | 828.9 | 828.9 | 829.4 | 0.5 |

[1]Feet above confluence with Nickajack Creek
[2]Feet above confluence with Queen Creek
[3] Elevation computed without consideration of backwater effects from Queen Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**LAUREL CREEK – LIBERTY HILL BRANCH**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Liberty Hill Branch(Continued) | | | | | | | | |
| L | 3,788[1] | 62 | 121 | 2.8 | 864.6 | 864.6 | 865.4 | 0.8 |
| M | 4,306[1] | 35 | 138 | 2.8 | 884.5 | 884.5 | 885.0 | 0.5 |
| N | 4,707[1] | 28 | 37 | 4.9 | 897.0 | 897.0 | 897.1 | 0.1 |
| O | 4,975[1] | 9 | 22 | 8.5 | 910.2 | 910.2 | 910.5 | 0.3 |
| Little Allatoona Creek | | | | | | | | |
| A | 727[2] | 494 | 2,378 | 1.5 | 861.1 | 847.2[3] | 847.2 | 0.0 |
| B | 2,228[2] | 434 | 2,154 | 1.7 | 861.1 | 849.3[3] | 849.4 | 0.1 |
| C | 3,800[2] | 230 | 988 | 3.6 | 861.1 | 852.9[3] | 853.0 | 0.1 |
| D | 4,603[2] | 230 | 1,165 | 3.0 | 861.1 | 856.3[3] | 856.8 | 0.5 |
| E | 5,912[2] | 200 | 1,350 | 2.6 | 861.1 | 860.4[3] | 861.2 | 0.8 |
| F | 7,283[2] | 200 | 1,332 | 2.3 | 863.6 | 863.6 | 864.6 | 1.0 |
| G | 8,637[2] | 160 | 901 | 2.9 | 869.7 | 869.7 | 870.0 | 0.3 |
| H | 9,917[2] | 300 | 2,282 | 1.1 | 870.9 | 870.9 | 871.4 | 0.5 |
| I | 11,478[2] | 150 | 642 | 3.8 | 871.8 | 871.8 | 872.7 | 0.9 |
| J | 12,761[2] | 300 | 1,317 | 1.9 | 880.4 | 880.4 | 880.4 | 0.0 |
| K | 14,094[2] | 156 | 801 | 3.2 | 883.7 | 883.7 | 883.7 | 0.1 |
| L | 15,384[2] | 100 | 409 | 3.6 | 888.8 | 888.8 | 889.3 | 0.5 |
| M | 16,918[2] | 120 | 363 | 4.1 | 900.7 | 900.7 | 900.7 | 0.0 |
| N | 17,671[2] | 140 | 747 | 2.0 | 904.6 | 904.6 | 905.3 | 0.7 |
| O | 17,930[2] | 202 | 1,572 | 0.9 | 908.0 | 908.0 | 908.1 | 0.1 |
| P | 19,603[2] | 70 | 346 | 2.9 | 913.5 | 913.5 | 914.3 | 0.8 |
| Q | 20,519[2] | 80 | 310 | 3.3 | 931.2 | 931.2 | 931.2 | 0.0 |

[1]Feet above confluence with Queen Creek
[2]Feet above confluence with Allatoona Creek
[3]Elevation computed without consideration of backwater effects from Lake Allatoona

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**LIBERTY HILL BRANCH – LITTLE ALLATOONA CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Little Noonday Creek | | | | | | | | |
| A | 862 | 216 | 1,546 | 5.0 | 904.6 | 899.3[2] | 899.8 | 0.5 |
| B | 1,832 | 300 | 1,708 | 4.5 | 904.6 | 902.2[2] | 903.2 | 1.0 |
| C | 3,065 | 250 | 1,263 | 6.1 | 908.5 | 908.5 | 909.0 | 0.5 |
| D | 3,942 | 250 | 2,106 | 3.7 | 913.2 | 913.2 | 913.6 | 0.4 |
| E | 5,294 | 148 | 1,072 | 7.1 | 917.6 | 917.6 | 917.8 | 0.2 |
| F | 6,302 | 200 | 2,214 | 3.4 | 920.4 | 920.4 | 920.9 | 0.5 |
| G | 6,823 | 230 | 2,233 | 3.4 | 921.1 | 921.1 | 922.0 | 0.9 |
| H | 8,470 | 350 | 2,667 | 2.8 | 923.2 | 923.2 | 924.1 | 0.9 |
| I | 10,135 | 265 | 1,508 | 5.0 | 926.6 | 926.6 | 927.0 | 0.4 |
| J | 11,237 | 158 | 902 | 7.7 | 930.0 | 930.0 | 930.6 | 0.6 |
| K | 11,373 | 260 | 2,304 | 3.0 | 934.0 | 934.0 | 934.8 | 0.8 |
| L | 12,726 | 100 | 601 | 11.6 | 935.8 | 935.8 | 936.1 | 0.3 |
| M | 13,564 | 155 | 1,462 | 4.8 | 939.7 | 939.7 | 940.7 | 1.0 |
| N | 14,075 | 150 | 1,874 | 3.7 | 942.2 | 942.2 | 943.2 | 1.0 |
| O | 16,362 | 160 | 1,417 | 4.9 | 953.1 | 953.1 | 953.8 | 0.7 |
| P | 17,299 | 187 | 1,714 | 2.1 | 958.1 | 958.1 | 958.6 | 0.5 |
| Q | 18,217 | 185 | 1,301 | 2.8 | 960.3 | 960.3 | 961.1 | 0.8 |
| R | 19,307 | 170 | 1,103 | 3.3 | 965.9 | 965.9 | 966.5 | 0.6 |
| S | 20,402 | 100 | 548 | 6.6 | 970.7 | 970.7 | 971.2 | 0.5 |
| T | 21,513 | 82 | 297 | 4.8 | 978.9 | 978.9 | 979.0 | 0.1 |
| U | 22,468 | 115 | 417 | 3.4 | 987.9 | 987.9 | 987.9 | 0.0 |
| V | 23,213 | 100 | 291 | 4.9 | 997.5 | 997.5 | 997.5 | 0.0 |
| W | 23,849 | 33 | 135 | 10.5 | 1,008.4 | 1,008.4 | 1,008.9 | 0.5 |

[1]Feet above confluence with Noonday Creek

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

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**LITTLE NOONDAY CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Lost Mountain Creek | | | | | | | | |
| A | 1,493[1] | 184 | 327 | 4.0 | 906.6 | 906.6 | 906.7 | 0.1 |
| B | 2,989[1] | 159 | 286 | 4.6 | 916.5 | 916.5 | 916.5 | 0.0 |
| C | 3,175[1] | 120 | 575 | 2.3 | 922.1 | 922.1 | 922.7 | 0.6 |
| D | 4,791[1] | 27 | 161 | 6.9 | 932.2 | 932.2 | 933.1 | 0.9 |
| E | 4,905[1] | 140 | 660 | 1.7 | 934.9 | 934.9 | 935.2 | 0.3 |
| F | 6,095[1] | 151 | 463 | 2.4 | 943.2 | 943.2 | 943.7 | 0.5 |
| Luther Ward Branch | | | | | | | | |
| A | 1,116[2] | 420 | 2,873 | 1.7 | 919.8 | 917.5[4] | 918.5 | 1.0 |
| B | 2,117[2] | 560 | 3,034 | 1.6 | 921.7 | 921.7 | 922.5 | 0.8 |
| C | 4,558[2] | 500 | 3,259 | 1.5 | 927.4 | 927.4 | 928.0 | 0.6 |
| D | 6,395[2] | 700 | 3,756 | 1.3 | 932.4 | 932.4 | 933.4 | 1.0 |
| E | 7,485[2] | 330 | 1,684 | 2.9 | 936.7 | 936.7 | 937.4 | 0.7 |
| F | 8,456[2] | 390 | 2,021 | 1.7 | 939.4 | 939.4 | 940.3 | 0.9 |
| G | 9,600[2] | 249 | 1,593 | 2.2 | 946.2 | 946.2 | 946.6 | 0.4 |
| H | 10,687[2] | 470 | 2,995 | 1.0 | 948.3 | 948.3 | 948.8 | 0.5 |
| I | 12,393[2] | 270 | 719 | 4.0 | 952.9 | 952.9 | 953.3 | 0.4 |
| J | 12,744[2] | 340 | 1,908 | 1.5 | 957.0 | 957.0 | 957.0 | 0.0 |
| K | 14,277[2] | 150 | 561 | 4.5 | 963.4 | 963.4 | 963.7 | 0.3 |
| Milam Branch | | | | | | | | |
| A | 408[3] | 118 | 207 | 9.1 | 908.1 | 908.1 | 908.3 | 0.2 |
| B | 966[3] | 25 | 143 | 13.2 | 919.5 | 919.5 | 919.8 | 0.3 |
| C | 1,429[3] | 29 | 147 | 12.8 | 945.2 | 945.2 | 945.3 | 0.1 |
| D | 1,846[3] | 32 | 192 | 9.8 | 952.3 | 952.3 | 953.1 | 0.8 |
| E | 1,912[3] | 58 | 375 | 5.0 | 957.7 | 957.7 | 958.6 | 0.9 |
| F | 2,233[3] | 29 | 149 | 8.9 | 958.3 | 958.8 | 959.8 | 1.0 |
| G | 2,393[3] | 60 | 128 | 10.4 | 964.5 | 964.5 | 964.5 | 0.0 |

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

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**LOST MOUNTAIN CREEK – LUTHER WARD BRANCH – MILAM BRANCH**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Milam Branch(Continued) | | | | | | | | |
| H | 2,470[1] | 105 | 882 | 1.5 | 974.2 | 974.2 | 975.1 | 0.9 |
| I | 3,160[1] | 82 | 490 | 2.7 | 974.4 | 974.4 | 975.2 | 0.8 |
| J | 3,200[1] | 64 | 382 | 3.5 | 974.4 | 974.4 | 975.3 | 0.9 |
| K | 3,546[1] | 54 | 180 | 7.4 | 975.4 | 975.4 | 975.7 | 0.3 |
| L | 3,621[1] | 86 | 519 | 2.2 | 977.7 | 977.7 | 978.5 | 0.8 |
| M | 3,885[1] | 79 | 298 | 3.8 | 978.1 | 978.1 | 978.9 | 0.8 |
| N | 4,191[1] | 42 | 126 | 8.9 | 979.6 | 979.6 | 980.1 | 0.5 |
| O | 4,261[1] | 32 | 111 | 10.1 | 982.0 | 982.0 | 982.0 | 0.0 |
| P | 4,320[1] | 48 | 255 | 2.1 | 983.6 | 983.6 | 983.8 | 0.2 |
| Q | 4,367[1] | 61 | 331 | 1.6 | 983.7 | 983.7 | 983.9 | 0.2 |
| R | 4,736[1] | 29 | 62 | 8.7 | 986.7 | 986.7 | 986.7 | 0.0 |
| S | 5,282[1] | 46 | 105 | 5.1 | 995.7 | 995.7 | 996.3 | 0.6 |
| T | 5,445[1] | 46 | 229 | 1.7 | 1,000.5 | 1,000.5 | 1,001.4 | 0.9 |
| U | 5,728[1] | 69 | 136 | 2.9 | 1,000.5 | 1,000.5 | 1,001.5 | 1.0 |
| V | 5,994[1] | 52 | 53 | 8.4 | 1,004.9 | 1,004.9 | 1,004.9 | 0.0 |
| W | 6,159[1] | 51 | 203 | 2.0 | 1,010.4 | 1,010.4 | 1,011.4 | 1.0 |
| Mill Creek No. 1 | | | | | | | | |
| A | 938[2] | 230 | 694 | 3.4 | 941.8 | 940.7[3] | 941.7 | 1.0 |
| B | 1,947[2] | 276 | 727 | 2.9 | 945.4 | 945.4 | 945.9 | 0.5 |
| C | 2,953[2] | 250 | 1,181 | 1.8 | 953.6 | 953.6 | 954.3 | 0.7 |
| D | 3,918[2] | 260 | 1,024 | 2.0 | 956.6 | 956.6 | 957.5 | 0.9 |
| E | 5,035[2] | 100 | 419 | 5.0 | 965.8 | 965.8 | 966.7 | 0.9 |
| F | 6,247[2] | 79 | 240 | 8.7 | 980.6 | 980.6 | 980.7 | 0.1 |
| G | 7,659[2] | 100 | 286 | 2.8 | 992.3 | 992.3 | 993.2 | 0.9 |
| H | 8,696[2] | 73 | 452 | 1.8 | 1,008.5 | 1,008.5 | 1,009.3 | 0.7 |

[1]Feet above confluence with Queen Creek
[2]Feet above confluence with Powder Springs Creek
[3]Elevation computed without consideration of backwater effects from Powder Springs Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**MILAM BRANCH – MILL CREEK NO.1**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Mill Creek No. 2 | | | | | | | | |
| A | 1,346[1] | 221 | 759 | 4.1 | 904.6 | 904.6 | 905.3 | 0.7 |
| B | 2,241[1] | 70 | 313 | 9.7 | 909.6 | 909.6 | 910.2 | 0.6 |
| C | 2,324[1] | 559 | 3,224 | 0.9 | 922.1 | 922.1 | 922.5 | 0.4 |
| D | 2,999[1] | 837 | 4,856 | 0.7 | 922.1 | 922.1 | 922.5 | 0.4 |
| E | 3,754[1] | 55 | 452 | 10.7 | 922.1 | 922.1 | 922.1 | 0.0 |
| F | 3,886[1] | 142 | 906 | 4.7 | 930.0 | 930.0 | 930.0 | 0.0 |
| G | 4,345[1] | 118 | 643 | 6.6 | 930.5 | 930.5 | 930.6 | 0.1 |
| H | 4,468[1] | 424 | 3,435 | 1.3 | 950.8 | 950.8 | 951.3 | 0.5 |
| I | 6,044[1] | 501 | 4,083 | 0.4 | 950.8 | 950.8 | 951.3 | 0.5 |
| J | 6,852[1] | 75 | 254 | 7.0 | 950.9 | 950.9 | 950.9 | 0.0 |
| K | 8,119[1] | 115 | 436 | 10.5 | 960.3 | 960.3 | 960.3 | 0.0 |
| L | 8,192[1] | 155 | 876 | 1.6 | 963.1 | 963.1 | 963.9 | 0.8 |
| Morgan Lake Tributary | | | | | | | | |
| A | 488[2] | 125 | 471 | 6.2 | 943.3 | 940.3[3] | 940.3 | 0.0 |
| B | 1,179[2] | 240 | 929 | 3.2 | 945.3 | 945.3 | 945.3 | 0.0 |
| C | 1,868[2] | 120 | 563 | 4.6 | 949.1 | 949.1 | 949.4 | 0.3 |
| D | 2,725[2] | 42 | 307 | 8.5 | 951.6 | 951.6 | 952.6 | 1.0 |
| E | 3,914[2] | 80 | 513 | 5.1 | 963.1 | 963.1 | 964.1 | 1.0 |
| F | 4,608[2] | 40 | 194 | 3.4 | 967.9 | 967.9 | 968.2 | 0.3 |
| G | 5,266[2] | 60 | 586 | 1.1 | 983.6 | 983.6 | 984.5 | 0.9 |
| H | 6,161[2] | 36 | 127 | 8.1 | 986.0 | 986.0 | 986.6 | 0.6 |

[1]Feet above confluence with Nickajack Creek
[2]Feet above confluence with Little Noonday Creek
[3]Elevation computed without consideration of backwater effects from Little Noonday Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

# COBB COUNTY, GA AND INCORPORATED AREAS

# FLOODWAY DATA

## MILL CREEK No. 2 - MORGAN LAKE TRIBUTARY

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Mud Creek | | | | | | | | |
| A | 1,437 | 700 | 3,011 | 3.2 | 909.4 | 909.4 | 910.0 | 0.6 |
| B | 3,072 | 700 | 5,216 | 1.9 | 913.6 | 913.6 | 914.3 | 0.7 |
| C | 3,448 | 770 | 6,443 | 1.5 | 914.9 | 914.9 | 915.3 | 0.4 |
| D | 6,468 | 400 | 3,604 | 2.7 | 917.6 | 917.6 | 918.6 | 1.0 |
| E | 9,606 | 700 | 5,524 | 0.9 | 921.5 | 921.5 | 922.1 | 0.6 |
| F | 11,801 | 700 | 5,021 | 1.0 | 922.3 | 922.3 | 923.1 | 0.8 |
| G | 13,486 | 98 | 567 | 8.2 | 923.4 | 923.4 | 924.4 | 1.0 |
| H | 13,648 | 245 | 1,470 | 3.2 | 926.3 | 926.3 | 926.3 | 0.0 |
| I | 15,047 | 800 | 4,035 | 1.2 | 928.9 | 928.9 | 929.1 | 0.2 |
| J | 17,482 | 230 | 1,172 | 3.4 | 931.8 | 931.8 | 932.4 | 0.6 |
| K | 19,331 | 150 | 1,108 | 3.6 | 936.8 | 936.8 | 937.4 | 0.6 |
| L | 20,794 | 140 | 1,106 | 3.2 | 941.6 | 941.6 | 942.0 | 0.4 |
| M | 22,886 | 400 | 2,617 | 1.3 | 944.4 | 944.4 | 945.2 | 0.8 |
| N | 24,743 | 130 | 619 | 5.6 | 947.0 | 947.0 | 947.5 | 0.5 |
| O | 26,092 | 62 | 733 | 4.8 | 954.3 | 954.3 | 955.1 | 0.8 |
| P | 27,008 | 111 | 1,160 | 2.8 | 957.4 | 957.4 | 957.9 | 0.5 |
| Q | 27,355 | 263 | 3,078 | 1.1 | 961.6 | 961.6 | 962.1 | 0.5 |
| R | 28,696 | 390 | 2,873 | 1.1 | 962.1 | 962.1 | 962.5 | 0.4 |
| S | 29,891 | 270 | 1,192 | 2.7 | 963.7 | 963.7 | 964.1 | 0.4 |
| T | 31,378 | 250 | 1,002 | 3.3 | 967.2 | 967.2 | 967.7 | 0.5 |
| U | 32,592 | 300 | 1,203 | 2.7 | 971.1 | 971.1 | 971.6 | 0.5 |
| V | 33,874 | 180 | 643 | 2.5 | 976.5 | 976.5 | 977.2 | 0.7 |
| W | 35,099 | 280 | 1,631 | 1.0 | 986.3 | 986.3 | 986.3 | 0.0 |
| X | 36,596 | 150 | 379 | 4.3 | 991.0 | 991.0 | 991.2 | 0.2 |
| Y | 37,585 | 500 | 1,286 | 1.3 | 1,001.2 | 1,001.2 | 1,001.2 | 0.0 |
| Z | 38,629 | 174 | 423 | 3.8 | 1,011.7 | 1,011.7 | 1,011.7 | 0.0 |
| AA | 39,815 | 260 | 2,266 | 0.7 | 1,033.1 | 1,033.1 | 1,033.4 | 0.3 |

[1]Feet above confluence with Noses Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA**
**AND INCORPORATED AREAS**

**FLOODWAY DATA**

**MUD CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Nickajack Creek | | | | | | | | |
| A | 900 | 510 | 4,308 | 3.6 | 764.1 | 753.6[2] | 754.4 | 0.8 |
| B | 1,115 | 510 | 3,958 | 3.9 | 764.1 | 754.3[2] | 754.8 | 0.5 |
| C | 2,061 | 817 | 6,323 | 2.4 | 764.1 | 758.1[2] | 758.8 | 0.7 |
| D | 5,721 | 125 | 1,071 | 13.5 | 764.1 | 759.3[2] | 760.3 | 1.0 |
| E | 5,862 | 337 | 1,687 | 8.6 | 764.1 | 762.4[2] | 762.7 | 0.3 |
| F | 7,121 | 277 | 3,284 | 4.4 | 765.2 | 765.2 | 765.3 | 0.1 |
| G | 7,334 | 270 | 3,725 | 3.9 | 765.7 | 765.7 | 765.8 | 0.1 |
| H | 11,861 | 395 | 2,800 | 5.3 | 771.1 | 771.1 | 771.6 | 0.5 |
| I | 17,436 | 190 | 1,502 | 9.4 | 778.9 | 778.9 | 779.5 | 0.6 |
| J | 17,568 | 447 | 3,711 | 4.9 | 783.3 | 783.3 | 783.9 | 0.6 |
| K | 19,844 | 318 | 3,407 | 4.4 | 787.1 | 787.1 | 787.8 | 0.7 |
| L | 22,609 | 199 | 2,257 | 6.5 | 798.1 | 798.1 | 798.4 | 0.3 |
| M | 24,596 | 110 | 1,586 | 8.8 | 804.6 | 804.6 | 805.4 | 0.8 |
| N | 28,949 | 192 | 2,213 | 5.9 | 817.1 | 817.1 | 817.1 | 0.0 |
| O | 29,085 | 282 | 3,681 | 3.5 | 817.9 | 817.9 | 817.9 | 0.0 |
| P | 29,470 | 148 | 2,456 | 5.4 | 818.2 | 818.2 | 818.2 | 0.0 |
| Q | 29,567 | 133 | 2,420 | 5.4 | 823.0 | 823.0 | 823.2 | 0.2 |
| R | 30,236 | 176 | 3,241 | 4.1 | 824.2 | 824.2 | 824.4 | 0.2 |
| S | 30,310 | 259 | 3,830 | 3.4 | 824.3 | 824.3 | 824.5 | 0.2 |
| T | 31,627 | 203 | 2,466 | 5.0 | 825.6 | 825.6 | 826.0 | 0.4 |
| U | 33,232 | 185 | 2,368 | 4.6 | 827.0 | 827.0 | 827.8 | 0.8 |
| V | 33,434 | 141 | 1,996 | 5.2 | 827.3 | 827.3 | 828.0 | 0.7 |
| W | 33,771 | 282 | 2,285 | 4.5 | 827.8 | 827.8 | 828.4 | 0.6 |
| X | 33,809 | 373 | 3,516 | 3.0 | 831.1 | 831.1 | 831.9 | 0.8 |
| Y | 38,404 | 143 | 1,817 | 5.6 | 844.5 | 844.5 | 845.3 | 0.8 |
| Z | 39,922 | 80 | 873 | 11.2 | 849.5 | 849.5 | 850.2 | 0.7 |

[1]Feet above confluence with Chattahoochee River

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

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**NICKAJACK CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Nickajack Creek (continued) | | | | | | | | |
| AA | 41,434 | 120 | 1,080 | 9.0 | 868.6 | 868.6 | 868.7 | 0.1 |
| AB | 42,193 | 115 | 1,186 | 8.2 | 874.5 | 874.5 | 874.7 | 0.2 |
| AC | 42,228 | 128 | 1255 | 7.8 | 875.2 | 875.2 | 875.4 | 0.2 |
| AD | 43,351 | 117 | 949 | 10.3 | 887.2 | 887.2 | 888.2 | 1.0 |
| AE | 43,513 | 147 | 1,526 | 6.4 | 891.1 | 891.1 | 891.2 | 0.1 |
| AF | 43,957 | 113 | 1,562 | 5.4 | 894.2 | 894.2 | 894.2 | 0.0 |
| AG | 44,086 | 135 | 1,267 | 6.6 | 894.0 | 894.0 | 894.5 | 0.5 |
| AH | 50,894 | 304 | 1,974 | 3.5 | 907.1 | 907.1 | 907.6 | 0.5 |
| AI | 51,043 | 323 | 2,024 | 3.4 | 910.5 | 910.5 | 910.5 | 0.0 |
| AJ | 56,568 | 49 | 588 | 12.6 | 921.2 | 921.2 | 921.7 | 0.5 |
| AK | 56,664 | 119 | 1,557 | 4.8 | 924.3 | 924.3 | 925.2 | 0.9 |
| AL | 58,195 | 368 | 1,750 | 2.8 | 925.4 | 925.4 | 926.4 | 1.0 |
| AM | 58,255 | 442 | 2,091 | 2.4 | 925.5 | 925.5 | 926.5 | 1.0 |
| AN | 58,884 | 336 | 1,694 | 2.9 | 927.1 | 927.1 | 928.0 | 0.9 |
| AO | 60,139 | 194 | 1,034 | 4.7 | 930.5 | 930.5 | 931.2 | 0.7 |
| AP | 60,994 | 60 | 662 | 7.3 | 936.1 | 936.1 | 936.7 | 0.6 |
| AQ | 61,060 | 61 | 683 | 7.0 | 937.8 | 937.8 | 938.2 | 0.4 |
| AR | 62,655 | 68 | 679 | 7.1 | 960.5 | 960.5 | 960.6 | 0.1 |
| AS | 62,731 | 68 | 866 | 5.6 | 962.5 | 962.5 | 962.8 | 0.3 |
| AT | 64,338 | 58 | 292 | 10.2 | 974.3 | 974.3 | 974.7 | 0.4 |
| AU | 65,215 | 58 | 375 | 8.3 | 987.9 | 987.9 | 988.1 | 0.2 |
| AV | 65,402 | 63 | 936 | 3.3 | 998.5 | 998.5 | 998.6 | 0.1 |
| AW | 66,896 | 51 | 241 | 12.4 | 1,000.9 | 1,000.9 | 1,000.9 | 0.0 |
| AX | 68,287 | 41 | 400 | 4.7 | 1,008.3 | 1,008.3 | 1,009.1 | 0.8 |
| AY | 68,373 | 43 | 672 | 2.8 | 1,015.9 | 1,015.9 | 1,016.9 | 1.0 |
| AZ | 70,015 | 84 | 382 | 4.9 | 1,025.4 | 1,025.4 | 1,026.3 | 0.9 |
| BA | 71,169 | 73 | 251 | 2.8 | 1,030.5 | 1,030.5 | 1,030.9 | 0.4 |

[1]Feet above confluence with Chattahoochee River

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA**
**AND INCORPORATED AREAS**

**FLOODWAY DATA**

**NICKAJACK CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Nickajack Creek (continued) | | | | | | | | |
| BB | 71,225[1] | 121 | 423 | 1.7 | 1,034.8 | 1,034.8 | 1,035.6 | 0.8 |
| BC | 71,547[1] | 74 | 182 | 3.8 | 1,034.9 | 1,034.9 | 1,035.8 | 0.9 |
| BD | 72,090[1] | 67 | 241 | 2.9 | 1,043.1 | 1,043.1 | 1,043.2 | 0.1 |
| BE | 72,282[1] | 87 | 421 | 1.7 | 1,048.7 | 1,048.7 | 1,048.8 | 0.1 |
| Noonday Creek | | | | | | | | |
| A | 2,819[2] | 125 | 1,832 | 8.7 | 901.2 | 901.2 | 902.2 | 1.0 |
| B | 3,024[2] | 287 | 4,028 | 6.8 | 903.4 | 903.4 | 904.1 | 0.7 |
| C | 7,121[2] | 110 | 1,883 | 9.3 | 907.1 | 907.1 | 907.5 | 0.4 |
| D | 7,364[2] | 140 | 1,948 | 10.2 | 909.5 | 909.5 | 909.7 | 0.2 |
| E | 15,479[2] | 1,362 | 9,323 | 3.2 | 914.3 | 914.3 | 915.2 | 0.9 |
| F | 15,814[2] | 554 | 4,637 | 5.4 | 917.5 | 917.5 | 917.8 | 0.3 |
| G | 21,283[2] | 98 | 1,198 | 10.6 | 923.8 | 923.8 | 924.7 | 0.9 |
| H | 21,543[2] | 301 | 2,834 | 6.5 | 925.7 | 925.7 | 926.4 | 0.7 |
| I | 22,842[2] | 698 | 5,813 | 4.4 | 927.1 | 927.1 | 927.7 | 0.6 |
| J | 23,000[2] | 434 | 4,694 | 1.9 | 927.4 | 927.4 | 927.9 | 0.5 |
| K | 23,352[2] | 545 | 4,627 | 2.2 | 933.2 | 933.2 | 933.2 | 0.0 |
| L | 25,990[2] | 1,323 | 1,128 | 10.2 | 933.6 | 933.6 | 933.6 | 0.0 |
| M | 26,341[2] | 563 | 1,563 | 10.2 | 935.0 | 935.0 | 935.0 | 0.0 |
| N | 27,721[2] | 618 | 5,041 | 3.6 | 938.2 | 938.2 | 938.2 | 0.0 |
| O | 30,074[2] | 117 | 1,417 | 6.8 | 942.8 | 942.8 | 943.1 | 0.3 |
| P | 32,230[2] | 204 | 2,094 | 6.1 | 949.7 | 949.7 | 949.8 | 0.1 |
| Q | 32,385[2] | 258 | 3,019 | 5.1 | 952.1 | 952.1 | 952.2 | 0.1 |
| R | 34,787[2] | 559 | 2,395 | 3.3 | 953.9 | 953.9 | 953.9 | 0.0 |
| S | 37,843[2] | 170 | 1,734 | 3.9 | 957.6 | 957.6 | 957.6 | 0.0 |
| T | 39,143[2] | 132 | 1,735 | 2.8 | 958.9 | 958.9 | 958.9 | 0.0 |

[1]Feet above confluence with Chattahoochee River
[2] Feet above county boundary

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**NICKAJACK CREEK - NOONDAY CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Noonday Creek (continued) | | | | | | | | |
| U | 42,502 | 127 | 561 | 7.6 | 964.9 | 964.9 | 964.9 | 0.0 |
| V | 42,697 | 681 | 4,839 | 3.0 | 968.5 | 968.5 | 968.5 | 0.0 |
| W | 43,934 | 1,290 | 5,863 | 3.8 | 970.2 | 970.2 | 970.2 | 0.0 |
| X | 44,888 | 115 | 743 | 4.1 | 973.2 | 973.2 | 974.1 | 0.9 |
| Y | 46,187 | 260 | 1,104 | 2.7 | 976.1 | 976.1 | 976.6 | 0.5 |
| Z | 46,590 | 208 | 1,992 | 1.5 | 981.5 | 981.5 | 981.5 | 0.0 |
| AA | 47,199 | 193 | 1,835 | 1.3 | 982.3 | 982.3 | 982.3 | 0.0 |
| AB | 49,224 | 82 | 383 | 5.3 | 983.9 | 983.9 | 984.8 | 0.9 |
| AC | 52,067 | 207 | 587 | 1.2 | 998.1 | 998.1 | 999.0 | 0.9 |
| AD | 52,535 | 462 | 3,706 | 0.5 | 1007.5 | 1007.5 | 1008.3 | 0.8 |
| AE | 53,123 | 185 | 3,052 | 0.6 | 1008.8 | 1008.8 | 1009.0 | 0.2 |
| AF | 54,635 | 83 | 398 | 4.7 | 1009.6 | 1009.6 | 1009.7 | 0.1 |
| AG | 54,792 | 147 | 1,033 | 1.8 | 1015.8 | 1015.8 | 1015.8 | 0.0 |
| AH | 55,709 | 136 | 526 | 3.5 | 1016.4 | 1016.4 | 1016.5 | 0.1 |
| AI | 56,355 | 50 | 280 | 4.4 | 1019.7 | 1019.7 | 1020.2 | 0.5 |
| AJ | 56,481 | 93 | 396 | 3.1 | 1021.1 | 1021.1 | 1021.4 | 0.3 |

[1] Feet above county boundary

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA**
**AND INCORPORATED AREAS**

**FLOODWAY DATA**

**NOONDAY CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Noonday Creek Tributary No. 1 | | | | | | | | |
| A | 3,221 | 47 | 130 | 1.7 | 910.6 | 910.6 | 911.6 | 1.0 |
| B | 6,230 | 30 | 114 | 5.9 | 935.1 | 935.1 | 936.1 | 1.0 |
| C | 8,131 | 30 | 153 | 3.9 | 948.3 | 948.3 | 949.3 | 1.0 |
| Noonday Creek Tributary No. 3 | | | | | | | | |
| A | 1,384 | 68 | 559 | 9.8 | 929.7 | 929.7 | 930.3 | 0.6 |
| B | 2,122 | 105 | 1,181 | 4.8 | 935.7 | 935.7 | 936.2 | 0.5 |
| C | 3,147 | 170 | 1,591 | 3.6 | 937.6 | 937.6 | 938.2 | 0.6 |
| D | 3,696 | 150 | 1,423 | 4.0 | 939.6 | 939.6 | 940.0 | 0.4 |
| E | 5,317 | 189 | 691 | 7.8 | 943.8 | 943.8 | 943.8 | 0.0 |
| F | 6,315 | 154 | 680 | 8.0 | 949.3 | 949.3 | 949.3 | 0.0 |
| G | 7,486 | 220 | 2,022 | 2.7 | 976.4 | 976.4 | 976.6 | 0.2 |
| H | 8,326 | 305 | 1,839 | 3.0 | 978.9 | 978.9 | 979.8 | 0.9 |
| I | 9,428 | 402 | 1,596 | 2.9 | 984.5 | 984.5 | 984.6 | 0.1 |
| J | 10,289 | 225 | 657 | 7.0 | 987.1 | 987.1 | 987.1 | 0.0 |
| K | 11,344 | 157 | 804 | 5.7 | 996.7 | 996.7 | 996.8 | 0.1 |
| L | 12,205 | 120 | 973 | 3.9 | 1,003.6 | 1,003.6 | 1,004.0 | 0.4 |
| M | 13,200 | 120 | 595 | 6.4 | 1,008.4 | 1,008.4 | 1,008.6 | 0.2 |
| N | 14,224 | 110 | 811 | 3.9 | 1,024.2 | 1,024.2 | 1,024.2 | 0.0 |
| O | 14,938 | 100 | 690 | 4.6 | 1,026.9 | 1,026.9 | 1,027.4 | 0.5 |
| P | 16,128 | 20 | 144 | 15.1 | 1,032.5 | 1,032.5 | 1,032.5 | 0.0 |
| Q | 16,650 | 20 | 423 | 5.2 | 1,050.5 | 1,050.5 | 1,050.5 | 0.0 |
| R | 17,329 | 128 | 1,033 | 2.5 | 1,051.0 | 1,051.0 | 1,051.0 | 0.0 |

[1] Feet above confluence with Noonday Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA**
**AND INCORPORATED AREAS**

# FLOODWAY DATA

**NOONDAY CREEK TRIBUTARY NO. 1 -**
**NOONDAY CREEK TRIBUTARY NO. 3**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Noonday Creek Tributary No. 4 | | | | | | | | |
| A | 1,340[1] | 150 | 833 | 2.6 | 926.9 | 926.8[3] | 927.1 | 0.3 |
| B | 3,770[1] | 66 | 570 | 4.4 | 943.3 | 943.3 | 943.7 | 0.4 |
| C | 5,250[1] | 153 | 752 | 3.3 | 948.5 | 948.5 | 949.5 | 1.0 |
| D | 6,615[1] | 313 | 2,137 | 1.7 | 976.9 | 976.9 | 976.9 | 0.0 |
| E | 8,965[1] | 312 | 1,988 | 1.8 | 976.9 | 976.9 | 976.9 | 0.0 |
| F | 10,920[1] | 101 | 1,768 | 2.1 | 1,002.9 | 1,002.9 | 1,002.9 | 0.0 |
| G | 12,640[1] | 53 | 461 | 7.9 | 1,014.8 | 1,014.8 | 1,015.5 | 0.7 |
| H | 14,415[1] | 62 | 530 | 6.9 | 1,044.7 | 1,044.7 | 1,045.0 | 0.3 |
| Noonday Creek Tributary No. 6 | | | | | | | | |
| A | 0.26[2] | 36 | 208 | 2.9 | 947.2 | 942.9 | 948.9 | 1.0 |
| B | 0.76[2] | 85 | 200 | 2.7 | 961.4 | 961.4 | 962.4 | 1.0 |
| C | 1.21[2] | 28 | 123 | 3.3 | 981.4 | 981.4 | 982.4 | 1.0 |
| Noonday Creek Tributary No. 7 | | | | | | | | |
| A | 55[1] | 180 | 884 | 3.6 | 953.1 | 944.9[3] | 945.4 | 0.5 |
| B | 1,153[1] | 208 | 855 | 3.7 | 953.1 | 949.9[3] | 950.9 | 1.0 |
| C | 2,275[1] | 120 | 445 | 7.1 | 955.0 | 955.0 | 955.0 | 0.0 |
| D | 3,014[1] | 160 | 1,061 | 3.0 | 962.8 | 962.8 | 963.7 | 0.9 |
| E | 4,167[1] | 55 | 165 | 4.3 | 964.4 | 964.4 | 965.1 | 0.7 |
| F | 4,678[1] | 65 | 130 | 5.4 | 969.5 | 969.5 | 969.5 | 0.0 |
| G | 5,661[1] | 90 | 135 | 7.0 | 979.9 | 979.9 | 979.9 | 0.0 |
| H | 6,734[1] | 33 | 131 | 7.3 | 985.1 | 985.1 | 985.6 | 0.5 |
| I | 7,820[1] | 30 | 176 | 5.4 | 995.6 | 995.6 | 996.2 | 0.6 |

[1]Feet above confluence with Noonday Creek
[2]Miles above mouth
[3]Elevation computed without consideration of backwater effects from Noonday Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

# FLOODWAY DATA

**NOONDAY CREEK TRIBUTARY NO. 4 – NOONDAY CREEK TRIBUTARY NO. 6 – NOONDAY CREEK TRIBUTARY NO. 7**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Noses Creek | | | | | | | | |
| A | 1,940 | 1,097 | 12,401 | 1.0 | 894.7 | 889.2[2] | 889.7 | 0.5 |
| B | 8,014 | 253 | 2,286 | 5.2 | 894.7 | 889.8[2] | 890.4 | 0.6 |
| C | 8,211 | 218 | 2,373 | 5.0 | 894.7 | 891.2[2] | 891.7 | 0.5 |
| D | 12,199 | 852 | 5,715 | 2.1 | 894.7 | 893.2[2] | 893.7 | 0.5 |
| E | 16,473 | 390 | 3,092 | 3.8 | 898.6 | 898.6 | 899.2 | 0.6 |
| F | 16,608 | 393 | 3,551 | 3.3 | 899.1 | 899.1 | 899.6 | 0.5 |
| G | 16,823 | 286 | 2,111 | 5.5 | 899.1 | 899.1 | 899.6 | 0.5 |
| H | 17,524 | 213 | 2,331 | 5.0 | 900.9 | 900.9 | 901.2 | 0.3 |
| I | 17,748 | 248 | 3,052 | 3.8 | 902.3 | 902.3 | 902.5 | 0.2 |
| J | 18,974 | 676 | 7,010 | 1.7 | 903.2 | 903.2 | 903.3 | 0.1 |
| K | 20,727 | 440 | 4,958 | 2.5 | 904.1 | 904.1 | 904.2 | 0.1 |
| L | 22,538 | 950 | 9,042 | 1.4 | 904.7 | 904.7 | 904.8 | 0.1 |
| M | 24,573 | 300 | 2,860 | 4.3 | 905.0 | 905.0 | 905.1 | 0.1 |
| N | 24,696 | 516 | 5,345 | 2.9 | 905.6 | 905.6 | 906.1 | 0.5 |
| O | 27,333 | 834 | 6,996 | 1.7 | 906.3 | 906.3 | 907.3 | 1.0 |
| P | 29,353 | 829 | 6,803 | 1.8 | 907.2 | 907.2 | 908.0 | 0.8 |
| Q | 30,766 | 231 | 1,343 | 9.3 | 908.3 | 908.3 | 908.4 | 0.1 |
| R | 30,904 | 267 | 2,010 | 6.2 | 911.1 | 911.1 | 911.5 | 0.4 |
| S | 31,149 | 271 | 2,665 | 4.7 | 912.6 | 912.6 | 912.8 | 0.2 |
| T | 33,275 | 338 | 4,143 | 1.7 | 914.4 | 914.4 | 915.2 | 0.8 |
| U | 33,471 | 328 | 4,049 | 1.8 | 914.7 | 914.7 | 915.6 | 0.9 |
| V | 35,288 | 132 | 1,239 | 6.0 | 914.9 | 914.9 | 915.8 | 0.9 |
| W | 35,476 | 127 | 1,861 | 4.8 | 921.6 | 921.6 | 922.6 | 1.0 |
| X | 37,556 | 598 | 6,651 | 1.1 | 922.9 | 922.9 | 923.9 | 1.0 |
| Y | 42,455 | 272 | 958 | 3.4 | 924.3 | 924.3 | 925.1 | 0.8 |
| Z | 43,904 | 361 | 1,289 | 2.9 | 927.3 | 927.3 | 927.4 | 0.1 |
| AA | 44,008 | 163 | 1,036 | 3.6 | 928.6 | 928.6 | 929.4 | 0.8 |

[1]Feet above confluence with Sweetwater Creek
[2]Elevation computed without consideration of backwater effects from Sweetwater Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**NOSES CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Noses Creek (continued) | | | | | | | | |
| AB | 45,405 | 853 | 1,820 | 1.7 | 929.7 | 929.7 | 930.3 | 0.6 |
| AC | 46,979 | 203 | 1,405 | 2.5 | 933.6 | 933.6 | 933.9 | 0.3 |
| AD | 49,306 | 417 | 1,414 | 2.4 | 939.1 | 939.1 | 939.5 | 0.4 |
| AE | 50,791 | 240 | 887 | 3.8 | 941.5 | 941.5 | 941.6 | 0.1 |
| AF | 52,013 | 249 | 1,051 | 3.2 | 946.6 | 946.6 | 947.0 | 0.4 |
| AG | 52,789 | 105 | 743 | 4.5 | 948.7 | 948.7 | 948.9 | 0.2 |
| AH | 52,925 | 81 | 768 | 4.0 | 949.9 | 949.9 | 950.1 | 0.2 |
| AI | 53,224 | 71 | 477 | 6.5 | 950.0 | 950.0 | 950.2 | 0.2 |
| AJ | 53,481 | 120 | 1,026 | 3.0 | 952.7 | 952.7 | 952.8 | 0.1 |
| AK | 54,782 | 228 | 1,260 | 2.5 | 954.1 | 954.1 | 954.4 | 0.3 |
| AL | 56,120 | 312 | 1,215 | 2.6 | 955.5 | 955.5 | 955.8 | 0.3 |
| AM | 56,913 | 103 | 782 | 4.5 | 957.2 | 957.2 | 957.5 | 0.3 |
| AN | 56,990 | 85 | 769 | 4.6 | 957.8 | 957.8 | 958.3 | 0.5 |
| AO | 58,937 | 584 | 1,308 | 2.4 | 960.4 | 960.4 | 960.8 | 0.4 |
| AP | 59,966 | 202 | 634 | 4.9 | 964.7 | 964.7 | 965.6 | 0.9 |
| AQ | 62,017 | 74 | 350 | 8.9 | 972.1 | 972.1 | 973.1 | 1.0 |
| AR | 62,097 | 79 | 470 | 6.6 | 975.1 | 975.1 | 975.1 | 0.0 |
| AS | 62,474 | 197 | 659 | 4.7 | 976.8 | 976.8 | 976.8 | 0.0 |
| AT | 63,191 | 194 | 706 | 4.4 | 984.8 | 984.8 | 984.9 | 0.1 |
| AU | 64,112 | 166 | 976 | 3.2 | 992.3 | 992.3 | 992.9 | 0.6 |
| AV | 64,779 | 207 | 874 | 3.6 | 993.0 | 993.0 | 993.6 | 0.6 |
| AW | 65,440 | 41 | 231 | 13.5 | 998.5 | 998.5 | 998.5 | 0.0 |
| AX | 66,043 | 149 | 476 | 6.5 | 1,003.2 | 1,003.2 | 1,003.3 | 0.1 |
| AY | 66,743 | 87 | 740 | 4.2 | 1,006.2 | 1,006.2 | 1,006.2 | 0.0 |
| AZ | 66,854 | 59 | 755 | 4.2 | 1,010.5 | 1,010.5 | 1,011.0 | 0.5 |
| BA | 68,181 | 207 | 762 | 4.1 | 1,014.0 | 1,014.0 | 1,014.5 | 0.5 |
| BB | 68,720 | 50 | 266 | 11.8 | 1,018.6 | 1,018.6 | 1,018.6 | 0.0 |

[1]Feet above confluence with Sweetwater Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA**
**AND INCORPORATED AREAS**

**FLOODWAY DATA**

**NOSES CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Noses Creek( Continued) | | | | | | | | |
| BC | 68,841 | 64 | 739 | 4.2 | 1023.8 | 1023.8 | 1023.8 | 0.0 |
| BD | 69,861 | 65 | 455 | 6.9 | 1025.2 | 1025.2 | 1025.4 | 0.2 |
| BE | 69,965 | 69 | 535 | 5.9 | 1028.6 | 1028.6 | 1028.6 | 0.0 |
| BF | 70,438 | 83 | 333 | 9.4 | 1029.5 | 1029.5 | 1029.5 | 0.0 |
| BG | 71,430 | 160 | 564 | 5.7 | 1035.9 | 1035.9 | 1036.0 | 0.1 |
| BH | 71,494 | 158 | 710 | 4.7 | 1036.5 | 1036.5 | 1037.1 | 0.6 |
| BI | 71,959 | 150 | 487 | 6.4 | 1037.9 | 1037.9 | 1038.5 | 0.6 |
| BJ | 72,800 | 104 | 350 | 8.3 | 1046.3 | 1046.3 | 1046.3 | 0.0 |
| BK | 73,590 | 48 | 238 | 12.2 | 1060.3 | 1060.3 | 1060.3 | 0.0 |
| BL | 74,200 | 78 | 495 | 5.8 | 1063.5 | 1063.5 | 1063.5 | 0.0 |
| BM | 75,304 | 74 | 313 | 9.3 | 1075.9 | 1075.9 | 1076.0 | 0.1 |
| BN | 75,408 | 91 | 523 | 5.5 | 1079.2 | 1079.2 | 1079.2 | 0.0 |
| BO | 75,813 | 164 | 689 | 4.2 | 1080.6 | 1080.6 | 1080.7 | 0.1 |
| Olley Creek | | | | | | | | |
| A | 3,195 | 405 | 2,912 | 2.6 | 894.8 | 885.1[2] | 886.1 | 1.0 |
| B | 5,475 | 367 | 3,144 | 2.4 | 894.8 | 894.7[2] | 894.8 | 0.1 |
| C | 8,205 | 378 | 2,113 | 3.6 | 895.8 | 895.8 | 896.5 | 0.7 |
| D | 9,997 | 114 | 1,083 | 7.1 | 903.5 | 903.5 | 903.6 | 0.1 |
| E | 11,911 | 364 | 4,289 | 1.8 | 906.7 | 906.7 | 906.9 | 0.2 |
| F | 15,025 | 411 | 3,470 | 2.2 | 908.8 | 908.8 | 909.7 | 0.9 |
| G | 19,353 | 426 | 2,483 | 3.1 | 915.8 | 915.8 | 916.7 | 0.9 |
| H | 20,327 | 334 | 3,242 | 2.3 | 922.3 | 922.3 | 922.6 | 0.3 |
| I | 24,095 | 359 | 2,838 | 2.6 | 927.6 | 927.6 | 928.4 | 0.8 |
| J | 25,869 | 318 | 2,676 | 2.8 | 931.9 | 931.9 | 932.7 | 0.8 |
| K | 29,409 | 273 | 2,541 | 3.0 | 942.6 | 942.6 | 942.7 | 0.1 |
| L | 32,400 | 313 | 2,647 | 2.9 | 947.7 | 947.7 | 948.6 | 0.9 |
| M | 34,848 | 341 | 1,949 | 3.6 | 950.7 | 950.7 | 951.4 | 0.7 |
| N | 37,337 | 263 | 1,931 | 3.6 | 958.4 | 958.4 | 959.3 | 0.9 |

[1]Feet above confluence with Sweetwater Creek

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

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**NOSES CREEK- OLLEY CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Olley Creek ( Continued) | | | | | | | | |
| O | 39,688[1] | 331 | 2,530 | 2.6 | 966.7 | 966.7 | 967.5 | 0.8 |
| P | 40,940[1] | 114 | 1,013 | 6.5 | 969.6 | 969.6 | 970.4 | 0.8 |
| Q | 44,019[1] | 200 | 1,639 | 3.7 | 978.8 | 978.8 | 979.1 | 0.3 |
| R | 46,132[1] | 240 | 1,319 | 4.0 | 982.0 | 982.0 | 982.8 | 0.8 |
| S | 47,765[1] | 230 | 1,321 | 3.9 | 988.9 | 988.9 | 989.6 | 0.7 |
| T | 49,988[1] | 144 | 853 | 3.5 | 998.7 | 998.7 | 999.6 | 0.9 |
| U | 51,869[1] | 142 | 588 | 4.1 | 1,008.8 | 1,008.8 | 1,009.6 | 0.8 |
| V | 53,725[1] | 64 | 527 | 3.6 | 1,020.1 | 1,020.1 | 1,020.9 | 0.8 |
| W | 54,875[1] | 34 | 145 | 9.6 | 1,027.5 | 1,027.5 | 1,027.9 | 0.4 |
| X | 56,109[1] | 48 | 235 | 5.9 | 1,040.6 | 1,040.6 | 1,041.2 | 0.6 |
| Y | 56,971[1] | 30 | 223 | 2.8 | 1,054.2 | 1,054.2 | 1,054.2 | 0.0 |
| Z | 58,303[1] | 72 | 411 | 1.4 | 1,068.6 | 1,068.6 | 1,069.4 | 0.8 |
| Olley Creek Tributary | | | | | | | | |
| A | 1,021[2] | 161 | 585 | 3.3 | 1,000.7 | 1,000.7 | 1,001.3 | 0.6 |
| B | 2,065[2] | 72 | 285 | 4.8 | 1,008.8 | 1,008.8 | 1,009.6 | 0.8 |
| C | 3,657[2] | 103 | 186 | 5.2 | 1,026.3 | 1,026.3 | 1,026.3 | 0.0 |
| Pine Branch | | | | | | | | |
| A | 1,042[3] | 27 | 146 | 6.6 | 941.4 | 941.4 | 942.3 | 0.9 |
| B | 2,943[3] | 65 | 303 | 2.5 | 959.0 | 959.0 | 960.0 | 1.0 |
| C | 5,160[3] | 12 | 49 | 8.8 | 983.8 | 983.8 | 984.0 | 0.2 |
| Pine Creek | | | | | | | | |
| A | 4,858[1] | 64 | 529 | 4.1 | 897.1 | 897.1 | 897.8 | 0.7 |
| B | 6,442[1] | 68 | 378 | 5.7 | 903.6 | 903.6 | 904.6 | 1.0 |
| C | 7,022[1] | 49 | 291 | 6.6 | 909.2 | 909.2 | 909.8 | 0.6 |
| D | 9,451[1] | 63 | 288 | 6.7 | 918.9 | 918.9 | 919.1 | 0.2 |

[1]Feet above confluence with Sweetwater Creek
[2]Feet above confluence with Olley Creek
[3]Feet above confluence with Pine Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**OLLEY CREEK –OLLEY CREEK TRIBUTARY – PINE BRANCH – PINE CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Pine Creek(Continued ) | | | | | | | | |
| E | 11,458[1] | 200[3] | 492 | 3.9 | 937.2 | 937.2 | 937.5 | 0.3 |
| F | 11,986[1] | 111 | 847 | 1.1 | 943.5 | 943.5 | 944.4 | 0.9 |
| G | 12,408[1] | 103 | 177 | 5.1 | 945.9 | 945.9 | 945.9 | 0.0 |
| H | 14,890[1] | 25 | 100 | 4.9 | 984.4 | 984.4 | 984.7 | 0.3 |
| Piney Grove Creek | | | | | | | | |
| A | 447[2] | 102 | 723 | 7.3 | 952.0 | 952.0 | 952.9 | 0.9 |
| B | 1,626[2] | 123 | 980 | 5.4 | 956.4 | 956.4 | 956.9 | 0.5 |
| C | 2,617[2] | 109 | 966 | 5.5 | 962.0 | 962.0 | 962.8 | 0.8 |
| D | 4,135[2] | 157 | 1,316 | 4.1 | 965.1 | 965.1 | 965.6 | 0.5 |
| E | 5,342[2] | 193 | 1,428 | 4.1 | 967.8 | 967.8 | 968.3 | 0.5 |
| F | 6,778[2] | 171 | 1,004 | 5.9 | 970.1 | 970.1 | 970.1 | 0.0 |
| G | 8,525[2] | 131 | 923 | 5.9 | 977.1 | 977.1 | 977.3 | 0.2 |
| H | 10,088[2] | 223 | 1,374 | 4.0 | 984.1 | 984.1 | 984.1 | 0.0 |
| I | 11,731[2] | 245 | 2,115 | 2.6 | 992.6 | 992.6 | 992.8 | 0.2 |
| J | 13,111[2] | 191 | 1,210 | 3.9 | 995.0 | 995.0 | 995.1 | 0.1 |
| K | 14,558[2] | 151 | 789 | 5.9 | 997.3 | 997.3 | 998.1 | 0.8 |
| L | 15,642[2] | 147 | 1,207 | 3.9 | 1,006.8 | 1,006.8 | 1,006.8 | 0.0 |
| M | 16,935[2] | 176 | 736 | 6.2 | 1,008.5 | 1,008.5 | 1,008.6 | 0.1 |
| N | 17,977[2] | 200 | 758 | 6.0 | 1,013.9 | 1,013.9 | 1,013.9 | 0.0 |
| O | 19,190[2] | 51 | 342 | 13.3 | 1,019.7 | 1,019.7 | 1,019.8 | 0.1 |
| P | 19,780[2] | 84 | 549 | 8.3 | 1,025.4 | 1,025.4 | 1,025.4 | 0.0 |
| Q | 20,364[2] | 286 | 1,888 | 2.4 | 1,033.2 | 1,033.2 | 1,033.7 | 0.5 |
| R | 21,584[2] | 38 | 153 | 10.4 | 1,035.8 | 1,035.8 | 1,035.8 | 0.0 |
| S | 22,414[2] | 51 | 97 | 6.0 | 1,047.7 | 1,047.7 | 1,047.7 | 0.0 |
| T | 23,286[2] | 25 | 79 | 7.4 | 1,057.9 | 1,057.9 | 1,058.1 | 0.2 |
| U | 24,057[2] | 54 | 369 | 1.6 | 1,075.5 | 1,075.5 | 1,076.2 | 0.7 |

[1]Feet above confluence with Sweetwater Creek

[2] Feet above confluence with Sewell Mill Creek

[3] Combined floodway with Pine Branch

TABLE 6

**FEDERAL EMERGENCY MANAGEMENT AGENCY**

# COBB COUNTY, GA AND INCORPORATED AREAS

# FLOODWAY DATA

## PINE CREEK – PINEY GROVE CREEK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Pitner Creek | | | | | | | | |
| A | 311 | 100 | 468 | 3.8 | 889.9 | 888.3[3] | 889.0 | 0.7 |
| B | 1,680 | 120 | 422 | 4.2 | 894.9 | 894.9 | 895.1 | 0.2 |
| C | 2,736 | 58 | 450 | 3.6 | 903.6 | 903.6 | 903.8 | 0.2 |
| D | 2,959 | 220 | 2,018 | 0.8 | 906.4 | 906.4 | 906.8 | 0.4 |
| E | 3,966 | 70 | 338 | 4.9 | 907.9 | 907.9 | 908.6 | 0.7 |
| F | 5,139 | 18 | 79 | 6.2 | 912.8 | 912.8 | 913.3 | 0.5 |
| G | 6,315 | 52 | 165 | 2.3 | 927.4 | 927.4 | 927.4 | 0.0 |
| H | 7,465 | 26 | 79 | 4.8 | 938.8 | 938.8 | 938.9 | 0.1 |
| I | 8,732 | 52 | 183 | 2.0 | 946.7 | 946.7 | 947.3 | 0.6 |
| J | 9,893 | 407 | 4,369 | 0.1 | 969.0 | 969.0 | 969.0 | 0.0 |
| K | 10,781 | 256 | 1,375 | 0.4 | 989.5 | 989.5 | 989.5 | 0.0 |
| L | 11,442 | 307 | 1,612 | 0.6 | 989.5 | 989.5 | 989.5 | 0.0 |
| M | 12,152 | 60 | 289 | 3.1 | 997.0 | 997.0 | 997.7 | 0.7 |
| Poorhouse Creek | | | | | | | | |
| A | 802[2] | 497 | 5,112 | 0.8 | 927.7 | 927.7 | 928.4 | 0.7 |
| B | 2,888[2] | 282 | 1,738 | 2.3 | 929.0 | 929.0 | 929.9 | 0.9 |
| C | 4,687[2] | 59 | 551 | 6.4 | 933.0 | 933.0 | 933.6 | 0.6 |
| D | 8,463[2] | 133 | 878 | 2.4 | 951.8 | 951.8 | 952.1 | 0.3 |
| E | 10,137[2] | 85 | 391 | 4.7 | 954.0 | 954.0 | 954.6 | 0.6 |
| Poplar Creek | | | | | | | | |
| A | 3,689[2] | 160 | 1,400 | 2.6 | 894.0 | 894.0 | 894.4 | 0.4 |
| B | 7,141[2] | 92 | 777 | 4.7 | 927.1 | 927.1 | 927.1 | 0.0 |
| C | 9,967[2] | 33 | 280 | 12.1 | 938.8 | 938.8 | 939.6 | 0.8 |
| D | 12,085[2] | 140 | 1,142 | 2.5 | 949.6 | 949.6 | 950.2 | 0.6 |
| E | 14,682[2] | 53 | 327 | 6.2 | 959.6 | 959.6 | 960.5 | 0.9 |
| F | 18,069[2] | 40 | 186 | 7.5 | 990.4 | 990.4 | 991.1 | 0.7 |

[1]Feet above confluence with Little Allatoona Creek

[2] Feet above confluence with Rottenwood Creek

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

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

# COBB COUNTY, GA AND INCORPORATED AREAS

## FLOODWAY DATA

## PITNER CREEK–POORHOUSE CREEK–POPLAR CREEK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Powder Springs Creek | | | | | | | | |
| A | 36 | 572 | 3,548 | 1.8 | 901.2 | 893.2[2] | 893.2 | 0.0 |
| B | 2,017 | 850 | 9,511 | 0.7 | 901.2 | 894.1[2] | 894.3 | 0.2 |
| C | 3,867 | 450 | 4,542 | 1.4 | 901.2 | 894.2[2] | 894.6 | 0.4 |
| D | 4,675 | 436 | 3,750 | 1.7 | 901.2 | 894.8[2] | 895.2 | 0.4 |
| E | 6,136 | 815 | 7,660 | 0.8 | 901.2 | 895.6[2] | 895.9 | 0.3 |
| F | 8,202 | 940 | 5,994 | 1.0 | 901.2 | 896.1[2] | 896.4 | 0.3 |
| G | 9,439 | 350 | 2,711 | 2.3 | 901.2 | 899.3[2] | 899.3 | 0.0 |
| H | 11,512 | 350 | 2,882 | 2.1 | 901.2 | 900.9[2] | 901.5 | 0.6 |
| I | 13,084 | 350 | 2,771 | 2.2 | 902.8 | 902.8 | 903.2 | 0.4 |
| J | 14,987 | 245 | 1,800 | 3.4 | 904.4 | 904.4 | 905.3 | 0.9 |
| K | 16,698 | 500 | 3,392 | 1.8 | 907.0 | 907.0 | 908.0 | 1.0 |
| L | 16,877 | 500 | 3,583 | 1.7 | 907.5 | 907.5 | 908.2 | 0.7 |
| M | 18,128 | 530 | 4,273 | 1.5 | 908.3 | 908.3 | 909.1 | 0.8 |
| N | 20,554 | 150 | 1,104 | 4.6 | 911.2 | 911.2 | 911.4 | 0.2 |
| O | 20,799 | 150 | 1,399 | 3.7 | 913.0 | 913.0 | 913.2 | 0.2 |
| P | 22,851 | 500 | 4,135 | 1.2 | 914.3 | 914.3 | 914.9 | 0.7 |
| Q | 23,904 | 570 | 4,600 | 1.1 | 914.5 | 914.5 | 915.3 | 0.8 |
| R | 25,416 | 232 | 1,943 | 2.6 | 917.2 | 917.2 | 917.7 | 0.5 |
| S | 26,944 | 650 | 4,184 | 1.2 | 917.8 | 917.8 | 918.7 | 0.9 |
| T | 28,358 | 360 | 2,037 | 2.5 | 919.2 | 919.2 | 920.1 | 0.9 |
| U | 29,350 | 700 | 5,800 | 0.9 | 923.0 | 923.0 | 923.9 | 0.9 |
| V | 30,714 | 410 | 2,033 | 2.5 | 923.4 | 923.4 | 924.4 | 1.0 |
| W | 32,169 | 700 | 4,090 | 1.3 | 925.4 | 925.4 | 926.3 | 0.9 |
| X | 34,633 | 330 | 1,338 | 2.9 | 927.7 | 927.7 | 928.7 | 1.0 |
| Y | 36,077 | 200 | 1,213 | 3.2 | 931.7 | 931.7 | 932.1 | 0.4 |
| Z | 37,647 | 740 | 4,129 | 0.9 | 932.9 | 932.9 | 933.7 | 0.8 |

[1]Feet above confluence with Sweetwater Creek

[2]Elevation computed without considering backwater effects from Sweetwater Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**POWDER SPRINGS CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Powder Springs Creek (continued) | | | | | | | | |
| AA | 38,981[1] | 319 | 1,057 | 3.5 | 934.0 | 934.0 | 935.0 | 1.0 |
| AB | 39,905[1] | 100 | 999 | 3.7 | 941.0 | 941.0 | 941.1 | 0.1 |
| AC | 40,922[1] | 250 | 2,308 | 1.5 | 941.5 | 941.5 | 942.2 | 0.7 |
| AD | 42,102[1] | 325 | 1,769 | 1.6 | 942.4 | 942.4 | 943.3 | 0.9 |
| AE | 43,809[1] | 170 | 609 | 4.7 | 947.1 | 947.1 | 947.3 | 0.2 |
| Powers Branch | | | | | | | | |
| A | 1,342[2] | 94 | 270 | 2.3 | 798.3 | 798.3 | 799.2 | 0.9 |
| B | 2,187[2] | 19 | 90 | 6.8 | 805.9 | 805.9 | 806.8 | 0.9 |
| C | 3,348[2] | 31 | 77 | 7.9 | 822.6 | 822.6 | 822.8 | 0.2 |
| D | 4,457[2] | 46 | 85 | 7.2 | 842.4 | 842.4 | 842.4 | 0.0 |
| Powers Creek | | | | | | | | |
| A | 1,290[3] | 54 | 296 | 5.1 | 936.2 | 936.2 | 936.6 | 0.4 |
| B | 2,245[3] | 37 | 214 | 6.4 | 941.5 | 941.5 | 942.0 | 0.5 |
| C | 3,176[3] | 51 | 436 | 3.1 | 951.4 | 951.4 | 952.2 | 0.8 |

[1]Feet above confluence with Sweetwater Creek
[2]Feet above confluence with Chattahoochee River
[3]Feet above confluence with Rottenwood Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**POWDER SPRINGS CREEK – POWERS BRANCH - POWERS CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Proctor Creek | | | | | | | | |
| A | 2,020 | 113 | 1,122 | 4.3 | 861.1 | 860.6[2] | 860.9 | 0.3 |
| B | 2,675 | 450 | 2,558 | 1.6 | 861.1 | 860.4[2] | 860.5 | 0.1 |
| C | 3,275 | 500 | 2,492 | 1.6 | 861.2 | 861.2 | 861.6 | 0.4 |
| D | 3,821 | 165 | 807 | 4.9 | 863.0 | 863.0 | 863.3 | 0.3 |
| E | 4,770 | 255 | 1,324 | 3.0 | 868.8 | 868.8 | 869.2 | 0.4 |
| F | 5,594 | 75 | 584 | 6.9 | 872.1 | 872.1 | 872.4 | 0.3 |
| G | 6,280 | 150 | 945 | 3.5 | 875.6 | 875.6 | 875.6 | 0.0 |
| H | 7,175 | 76 | 760 | 4.3 | 882.9 | 882.9 | 882.9 | 0.0 |
| I | 7,763 | 320 | 2,367 | 1.4 | 883.7 | 883.7 | 883.9 | 0.2 |
| J | 8,484 | 350 | 2,027 | 1.6 | 884.4 | 884.4 | 884.7 | 0.3 |
| K | 9,248 | 400 | 2,065 | 1.6 | 888.3 | 888.3 | 888.4 | 0.1 |
| L | 10,453 | 200 | 883 | 5.4 | 892.4 | 892.4 | 892.7 | 0.3 |
| M | 11,654 | 400 | 2,301 | 2.1 | 902.1 | 902.1 | 902.3 | 0.2 |
| N | 12,811 | 350 | 1,517 | 2.9 | 907.5 | 907.5 | 907.9 | 0.4 |
| O | 14,158 | 300 | 1,139 | 3.8 | 914.4 | 914.4 | 914.9 | 0.5 |
| P | 14,960 | 160 | 739 | 5.9 | 920.2 | 920.2 | 920.8 | 0.6 |
| Q | 15,899 | 200 | 1,051 | 4.1 | 927.0 | 927.0 | 927.6 | 0.6 |
| R | 16,934 | 44 | 424 | 13.5 | 933.9 | 933.9 | 934.6 | 0.7 |
| S | 17,802 | 250 | 1,950 | 2.0 | 942.1 | 942.1 | 942.3 | 0.2 |
| T | 18,892 | 100 | 533 | 7.3 | 948.1 | 948.1 | 948.5 | 0.4 |

[1]Feet above confluence with Lake Acworth

[2]Elevation computed without consideration of backwater effects from Lake Acworth

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**PROCTOR CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Queen Creek | | | | | | | | |
| A | 586[1] | 154 | 618 | 10.0 | 764.1 | 757.7[2] | 758.1 | 0.4 |
| B | 1,633[1] | 60 | 414 | 14.9 | 764.1 | 761.7[2] | 761.8 | 0.1 |
| C | 1,795[1] | 60 | 1,078 | 5.7 | 773.7 | 773.7 | 774.1 | 0.4 |
| D | 2,782[1] | 276 | 4,122 | 1.4 | 774.3 | 774.3 | 774.9 | 0.6 |
| E | 3,739[1] | 60 | 698 | 8.2 | 774.3 | 774.3 | 774.7 | 0.4 |
| F | 3,816[1] | 65 | 720 | 7.9 | 774.6 | 774.6 | 775.1 | 0.5 |
| G | 4,490[1] | 167 | 1,104 | 5.2 | 775.6 | 775.6 | 776.3 | 0.9 |
| H | 6,434[1] | 45 | 386 | 14.4 | 790.8 | 790.8 | 791.1 | 0.3 |
| I | 6,584[1] | 198 | 2,355 | 3.5 | 804.4 | 804.4 | 805.3 | 0.9 |
| J | 9,278[1] | 140 | 1,011 | 5.1 | 805.6 | 805.6 | 806.5 | 0.9 |
| K | 11,625[1] | 51 | 324 | 12.6 | 846.1 | 846.1 | 846.2 | 0.1 |
| L | 12,472[1] | 80 | 419 | 9.8 | 883.4 | 883.4 | 883.4 | 0.0 |
| M | 14,599[1] | 40 | 171 | 10.8 | 916.3 | 916.3 | 916.3 | 0.0 |
| N | 15,038[1] | 42 | 176 | 10.4 | 948.2 | 948.2 | 948.4 | 0.2 |
| O | 16,023[1] | 49 | 223 | 9.3 | 963.0 | 963.0 | 963.0 | 0.0 |
| P | 16,081[1] | 103 | 629 | 3.4 | 968.5 | 968.5 | 968.8 | 0.3 |
| Q | 16,938[1] | 192 | 711 | 2.5 | 969.3 | 969.3 | 969.6 | 0.3 |
| R | 17,012[1] | 236 | 1,066 | 1.7 | 971.4 | 971.4 | 971.4 | 0.0 |
| S | 17,633[1] | 31 | 123 | 9.2 | 980.2 | 980.2 | 980.7 | 0.5 |
| T | 18,071[1] | 80 | 471 | 2.4 | 991.1 | 991.1 | 992.0 | 0.9 |
| U | 18,268[1] | 164 | 1,625 | 1.7 | 999.4 | 999.4 | 1,000.1 | 0.7 |

[1]Feet above confluence with Nickajack Creek

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

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**QUEEN CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Robertson Creek | | | | | | | | |
| A | 520[1] | 67 | 288 | 8.2 | 923.4 | 918.7[3] | 919.7 | 1.0 |
| B | 1,734[1] | 154 | 1,088 | 2.2 | 930.6 | 930.6 | 930.6 | 0.0 |
| C | 2,797[1] | 184 | 1,325 | 1.8 | 936.3 | 936.3 | 936.3 | 0.0 |
| D | 3,893[1] | 52 | 144 | 9.8 | 937.7 | 937.7 | 937.7 | 0.0 |
| E | 4,800[1] | 59 | 232 | 6.1 | 946.5 | 946.5 | 946.8 | 0.3 |
| F | 5,406[1] | 58 | 401 | 2.1 | 964.7 | 964.7 | 964.7 | 0.0 |
| G | 6,036[1] | 125 | 1,062 | 0.8 | 979.2 | 979.2 | 980.1 | 0.9 |
| H | 6,737[1] | 79 | 184 | 4.6 | 984.1 | 984.1 | 984.3 | 0.2 |
| I | 7,131[1] | 41 | 111 | 7.6 | 995.8 | 995.8 | 995.8 | 0.0 |
| J | 7,651[1] | 112 | 185 | 4.6 | 1,007.1 | 1,007.1 | 1,007.1 | 0.0 |
| K | 8,666[1] | 84 | 173 | 4.9 | 1,021.1 | 1,021.1 | 1,021.1 | 0.0 |
| Rottenwood Creek | | | | | | | | |
| A | 2,124[2] | 94 | 1,329 | 10.1 | 782.8 | 782.8 | 783.5 | 0.7 |
| B | 4,951[2] | 75 | 864 | 15.4 | 800.3 | 800.3 | 800.4 | 0.1 |
| C | 6,257[2] | 60 | 700 | 19.0 | 820.0 | 820.0 | 820.5 | 0.5 |
| D | 7,811[2] | 82 | 1,225 | 10.7 | 838.1 | 838.1 | 838.1 | 0.0 |
| E | 9,074[2] | 102 | 1,472 | 8.9 | 841.8 | 841.8 | 842.5 | 0.7 |
| F | 10,403[2] | 200 | 2,027 | 6.4 | 855.7 | 855.7 | 855.7 | 0.0 |
| G | 11,812[2] | 250 | 2,100 | 6.1 | 874.2 | 874.2 | 874.2 | 0.0 |
| H | 13,429[2] | 385 | 4,426 | 2.4 | 880.3 | 880.3 | 880.8 | 0.5 |
| I | 15,011[2] | 88 | 843 | 12.5 | 882.0 | 882.0 | 882.5 | 0.5 |
| J | 18,669[2] | 86 | 1,117 | 9.3 | 899.5 | 899.5 | 900.3 | 0.8 |
| K | 21,367[2] | 101 | 1,017 | 9.9 | 914.3 | 914.3 | 915.1 | 0.8 |
| L | 23,864[2] | 106 | 1,426 | 5.0 | 927.4 | 927.4 | 928.1 | 0.7 |
| M | 26,384[2] | 317 | 3,811 | 1.9 | 930.6 | 930.6 | 931.6 | 1.0 |
| N | 28,600[2] | 414 | 3,843 | 1.7 | 932.7 | 932.7 | 933.5 | 0.8 |

[1]Feet above confluence with Sewell Mill Creek

[2]Feet above confluence with Chattahoochee River

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

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**ROBERTSON CREEK– RTOTTENWOOD CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Rottenwood Creek(Continue) | | | | | | | | |
| O | 31,473[1] | 500 | 3,815 | 1.7 | 939.9 | 939.9 | 940.7 | 0.8 |
| P | 35,471[1] | 310 | 2,152 | 3.0 | 946.5 | 946.5 | 947.1 | 0.6 |
| Q | 39,758[1] | 136 | 636 | 5.5 | 958.3 | 958.3 | 958.4 | 0.1 |
| R | 40,971[1] | 63 | 394 | 8.9 | 965.5 | 965.5 | 966.2 | 0.7 |
| S | 41,764[1] | 98 | 483 | 10.0 | 995.4 | 995.4 | 995.8 | 0.4 |
| T | 42,137[1] | 95 | 773 | 6.3 | 1,001.4 | 1,001.4 | 1,001.6 | 0.2 |
| U | 46,611[1] | 143 | 660 | 5.6 | 1,025.6 | 1,025.6 | 1,025.9 | 0.3 |
| V | 50,316[1] | 25 | 78 | 6.8 | 1,052.0 | 1,052.0 | 1,052.4 | 0.4 |
| O | 31,473[1] | 500 | 3,815 | 1.7 | 939.9 | 939.9 | 940.7 | 0.8 |
| P | 35,471[1] | 310 | 2,152 | 3.0 | 946.5 | 946.5 | 947.1 | 0.6 |
| Rubes Creek | | | | | | | | |
| A | 474[2] | 730 | 3,819 | 2.8 | 897.3 | 897.3 | 898.1 | 0.8 |
| B | 2,603[2] | 207 | 1,443 | 7.4 | 907.0 | 907.0 | 907.2 | 0.2 |
| C | 4,373[2] | 463 | 5,232 | 1.1 | 915.1 | 915.1 | 915.2 | 0.1 |
| D | 5,944[2] | 323 | 2,002 | 2.8 | 915.7 | 915.7 | 915.8 | 0.1 |
| E | 7,128[2] | 355 | 1,993 | 2.9 | 917.4 | 917.4 | 917.8 | 0.4 |
| F | 9,168[2] | 359 | 1,673 | 3.2 | 921.8 | 921.8 | 922.4 | 0.6 |
| G | 10,207[2] | 230 | 986 | 5.4 | 927.5 | 927.5 | 927.8 | 0.3 |
| H | 12,267[2] | 256 | 1,539 | 3.5 | 939.9 | 939.9 | 940.6 | 0.7 |
| I | 13,416[2] | 247 | 945 | 5.3 | 943.0 | 943.0 | 943.0 | 0.0 |
| J | 14,718[2] | 214 | 1,210 | 4.2 | 948.6 | 948.6 | 948.6 | 0.0 |
| K | 16,111[2] | 137 | 862 | 5.1 | 960.0 | 960.0 | 960.0 | 0.0 |
| L | 18,461[2] | 224 | 711 | 6.2 | 973.6 | 973.6 | 973.6 | 0.0 |
| M | 19,276[2] | 95 | 342 | 8.3 | 987.5 | 987.5 | 987.6 | 0.1 |
| N | 20,087[2] | 100 | 427 | 6.7 | 1,005.7 | 1,005.7 | 1,005.7 | 0.0 |
| O | 20,811[2] | 113 | 564 | 2.9 | 1,016.6 | 1,016.6 | 1,016.6 | 0.0 |
| P | 21,515[2] | 76 | 237 | 6.9 | 1,021.2 | 1,021.2 | 1,021.2 | 0.0 |

[1]Feet above confluence with Chattahoochee River

[2]Feet above county boundary

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**ROTTENWOOD CREEK- RUBES CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Rubes Creek( Continued) | | | | | | | | |
| Q | 23,553[1] | 76 | 389 | 2.1 | 1,047.2 | 1,047.2 | 1,047.5 | 0.3 |
| R | 24,229[1] | 63 | 679 | 1.2 | 1,064.5 | 1,064.5 | 1,064.5 | 0.0 |
| S | 24,980[1] | 33 | 324 | 2.5 | 1,074.5 | 1,074.5 | 1,075.3 | 0.8 |
| Rubes Creek Tributary | | | | | | | | |
| A | 1,116[2] | 14 | 71 | 12.1 | 925.3 | 925.3 | 926.2 | 0.9 |
| B | 1,807[2] | 231 | 1,008 | 0.9 | 943.1 | 943.1 | 943.2 | 0.1 |
| C | 2,844[2] | 28 | 94 | 9.1 | 950.7 | 950.7 | 950.8 | 0.1 |
| D | 3,585[2] | 208 | 1,560 | 0.6 | 977.1 | 977.1 | 977.5 | 0.4 |
| E | 4,881[2] | 116 | 211 | 4.1 | 986.1 | 986.1 | 986.1 | 0.0 |
| Sewell Mill Creek | | | | | | | | |
| A | 617[3] | 225 | 448 | 3.3 | 917.6 | 917.6 | 918.1 | 0.5 |
| B | 1,248[3] | 184 | 770 | 4.9 | 917.8 | 917.8 | 918.3 | 0.5 |
| C | 3,197[3] | 575 | 890 | 1.5 | 920.8 | 920.8 | 921.7 | 0.9 |
| D | 4,355[3] | 190 | 609 | 3.4 | 921.5 | 921.5 | 922.4 | 0.9 |
| E | 5,568[3] | 198 | 547 | 4.3 | 923.5 | 923.5 | 924.2 | 0.7 |
| F | 7,794[3] | 257 | 880 | 2.5 | 932.5 | 932.5 | 933.4 | 0.9 |
| G | 8,939[3] | 433 | 1,014 | 2.0 | 933.4 | 933.4 | 934.3 | 0.9 |
| H | 10,426[3] | 107 | 424 | 11.5 | 942.9 | 942.9 | 943.0 | 0.1 |
| I | 11,676[3] | 64 | 474 | 7.6 | 954.1 | 954.1 | 954.3 | 0.2 |
| J | 13,676[3] | 55 | 382 | 9.0 | 964.5 | 964.5 | 965.5 | 1.0 |
| K | 15,767[3] | 82 | 214 | 9.0 | 974.0 | 974.0 | 974.1 | 0.1 |
| L | 16,238[3] | 154 | 264 | 3.0 | 978.1 | 978.1 | 978.5 | 0.4 |
| M | 17,259[3] | 80 | 298 | 8.7 | 978.4 | 978.4 | 979.3 | 0.9 |
| N | 18,664[3] | 104 | 544 | 3.8 | 984.1 | 984.1 | 984.8 | 0.7 |
| O | 20,345[3] | 140 | 252 | 2.2 | 996.6 | 996.6 | 997.1 | 0.5 |

[1]Feet above county boundary
[2]Feet above confluence with Rubes Creek
[3]Feet above confluence with Sope Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**RUBES CREEK – RUBES CREEK TRIBUTARY-SEWELL MILL CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Sewell Mill Creek (Continued) | | | | | | | | |
| P | 21,328[1] | 98 | 464 | 4.9 | 997.2 | 997.2 | 997.2 | 0.6 |
| Q | 22,606[1] | 100 | 274 | 4.4 | 1,000.5 | 1,000.5 | 1,000.5 | 0.8 |
| R | 23,607[1] | 45 | 247 | 9.8 | 1,003.7 | 1,003.7 | 1,003.7 | 0.8 |
| S | 24,409[1] | 115 | 252 | 3.4 | 1,012.5 | 1,012.5 | 1,012.5 | 0.7 |
| T | 25,518[1] | 152 | 256 | 5.1 | 1,014.1 | 1,014.1 | 1,014.1 | 0.7 |
| U | 26,733[1] | 131 | 268 | 3.8 | 1,022.0 | 1,022.0 | 1,022.0 | 0.8 |
| V | 27,532[1] | 123 | 159 | 3.6 | 1,024.4 | 1,024.4 | 1,024.4 | 0.9 |
| W | 28,459[1] | 116 | 140 | 3.3 | 1,029.2 | 1,029.2 | 1,029.2 | 0.8 |
| X | 30,126[1] | 141 | 406 | 1.8 | 1,038.0 | 1,038.0 | 1,038.0 | 0.7 |
| Y | 31,589[1] | 82 | 442 | 2.5 | 1,045.4 | 1,045.4 | 1,045.4 | 0.0 |
| Z | 32,924[1] | 153 | 102 | 4.4 | 1,049.1 | 1,049.1 | 1,049.1 | 0.0 |
| AA | 33,881[1] | 27 | 137 | 7.6 | 1,055.7 | 1,055.7 | 1,055.7 | 0.4 |
| AB | 34,701[1] | 31 | 128 | 8.1 | 1,063.0 | 1,063.0 | 1,063.0 | 0.8 |
| Smyrna Branch | | | | | | | | |
| A | 902[2] | 156 | 501 | 3.5 | 930.2 | 929.8[3] | 930.6 | 0.8 |
| B | 1,736[2] | 42 | 252 | 6.9 | 936.1 | 936.1 | 936.6 | 0.5 |
| C | 1,916[2] | 56 | 563 | 3.1 | 943.1 | 943.1 | 943.1 | 0.0 |
| D | 2,031[2] | 83 | 384 | 4.5 | 943.2 | 943.2 | 943.2 | 0.0 |
| E | 2,861[2] | 162 | 325 | 5.4 | 943.9 | 943.9 | 943.9 | 0.0 |
| F | 3,872[2] | 67 | 313 | 3.9 | 954.5 | 954.5 | 954.8 | 0.3 |
| G | 4,328[2] | 35 | 142 | 8.6 | 956.4 | 956.4 | 956.5 | 0.1 |
| H | 4,402[2] | 47 | 330 | 3.7 | 963.7 | 963.7 | 964.6 | 0.9 |
| I | 4,918[2] | 22 | 88 | 4.9 | 963.9 | 963.9 | 964.8 | 0.9 |
| J | 5,348[2] | 56 | 165 | 2.6 | 967.6 | 967.6 | 967.6 | 0.0 |
| K | 5,642[2] | 40 | 220 | 1.9 | 979.1 | 979.1 | 979.7 | 0.6 |
| L | 6,096[2] | 18 | 71 | 6.1 | 979.9 | 979.9 | 980.4 | 0.5 |
| M | 6,215[2] | 21 | 227 | 1.9 | 988.4 | 988.4 | 988.5 | 0.1 |

[1]Feet above confluence with Sope Creek
[2]Feet above confluence with Theater Branch
[3]Elevation computed without consideration of backwater effects from Theater Branch

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**SEWELL MILL CREEK- SMYRNA BRANCH**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Smyrna Branch (Continued ) | | | | | | | | |
| N | 6.688[1] | 17 | 47 | 9.1 | 989.8 | 989.8 | 989.9 | 0.1 |
| O | 6.792[1] | 23 | 226 | 1.9 | 997.7 | 997.7 | 998.7 | 1.0 |
| Sope Branch | | | | | | | | |
| A | 892[2] | 76 | 214 | 7.4 | 1,025.9 | 1,025.9 | 1,026.0 | 0.1 |
| B | 3,365[2] | 50 | 238 | 4.5 | 1,052.5 | 1,052.5 | 1,053.4 | 0.9 |
| C | 4,625[2] | 116 | 238 | 4.5 | 1,076.3 | 1,076.3 | 1,076.3 | 0.0 |
| Sope Creek | | | | | | | | |
| A | 2,279[3] | 201 | 1,941 | 7.0 | 811.9 | 811.9 | 811.9 | 0.0 |
| B | 3,443[3] | 173 | 2,143 | 6.3 | 815.4 | 815.4 | 815.4 | 0.2 |
| C | 4,284[3] | 165 | 1,664 | 8.2 | 817.8 | 817.8 | 817.8 | 0.1 |
| D | 4,995[3] | 84 | 766 | 16.5 | 824.9 | 824.9 | 824.9 | 0.0 |
| E | 5,974[3] | 133 | 936 | 13.5 | 842.1 | 842.1 | 842.1 | 0.0 |
| F | 6,825[3] | 119 | 830 | 15.1 | 871.1 | 871.1 | 871.1 | 0.0 |
| G | 7,405[3] | 111 | 812 | 15.4 | 880.5 | 880.5 | 880.5 | 0.0 |
| H | 8,104[3] | 316 | 2,269 | 5.4 | 891.2 | 891.2 | 891.2 | 0.0 |
| I | 9,459[3] | 277 | 2,766 | 4.5 | 895.0 | 895.0 | 895.0 | 0.0 |
| J | 10,910[3] | 542 | 3,932 | 3.0 | 896.5 | 896.5 | 896.5 | 0.2 |
| K | 12,459[3] | 136 | 1,483 | 7.7 | 897.9 | 897.9 | 897.9 | 0.3 |
| L | 14,071[3] | 143 | 2,026 | 5.7 | 902.4 | 902.4 | 902.4 | 0.5 |
| M | 15,401[3] | 171 | 1,713 | 6.1 | 905.1 | 905.1 | 905.1 | 0.8 |
| N | 16,663[3] | 159 | 1,903 | 5.5 | 908.3 | 908.3 | 908.3 | 0.4 |
| O | 18,491[3] | 480 | 5,652 | 1.9 | 910.6 | 910.6 | 910.6 | 0.5 |
| P | 20,086[3] | 330 | 3,748 | 2.8 | 915.0 | 915.0 | 915.0 | 0.2 |

[1]Feet above confluence with Theatre Branch
[2]Feet above confluence with Sope Creek
[3]Feet above confluence with Chattahoochee River

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**SMYRNA BRANCH – SOPE BRANCH – SOPE CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Sope Creek (continued) | | | | | | | | |
| Q | 22,123 | 669 | 7,254 | 1.1 | 915.6 | 915.6 | 916.2 | 0.6 |
| R | 23,855 | 379 | 4,004 | 2.0 | 918.9 | 918.9 | 919.6 | 0.7 |
| S | 25,959 | 519 | 6,552 | 1.1 | 926.5 | 926.5 | 926.5 | 0.0 |
| T | 28,417 | 427 | 3,059 | 2.4 | 928.0 | 928.0 | 928.7 | 0.7 |
| U | 31,098 | 467 | 4,275 | 1.7 | 932.2 | 932.2 | 932.7 | 0.5 |
| V | 32,609 | 103 | 905 | 7.8 | 935.3 | 935.3 | 935.5 | 0.2 |
| W | 34,138 | 220 | 1,071 | 6.6 | 939.5 | 939.5 | 940.1 | 0.6 |
| X | 35,298 | 102 | 1,121 | 6.3 | 946.7 | 946.7 | 946.9 | 0.2 |
| Y | 36,333 | 112 | 1,248 | 5.7 | 951.4 | 951.4 | 952.2 | 0.8 |
| Z | 37,150 | 77 | 633 | 11.2 | 953.4 | 953.4 | 953.6 | 0.2 |
| AA | 37,927 | 54 | 507 | 14.0 | 959.1 | 959.1 | 959.8 | 0.7 |
| AB | 38,560 | 273 | 2,082 | 3.4 | 966.8 | 966.8 | 967.4 | 0.6 |
| AC | 39,940 | 107 | 1,453 | 4.9 | 975.8 | 975.8 | 976.7 | 0.9 |
| AD | 42,110 | 169 | 2,262 | 2.7 | 977.9 | 977.9 | 978.8 | 0.9 |
| AE | 43,649 | 121 | 1,344 | 4.5 | 979.8 | 979.8 | 980.5 | 0.7 |
| AF | 45,056 | 150 | 2,138 | 2.8 | 985.0 | 985.0 | 985.7 | 0.7 |
| AG | 46,808 | 119 | 1,324 | 3.9 | 988.3 | 988.3 | 988.9 | 0.7 |
| AH | 48,413 | 101 | 851 | 6.0 | 990.4 | 990.4 | 990.9 | 0.5 |
| AI | 49,630 | 70 | 482 | 7.1 | 993.9 | 993.9 | 994.6 | 0.7 |
| AJ | 50,779 | 38 | 373 | 9.2 | 997.9 | 997.9 | 998.6 | 0.7 |
| AK | 52,033 | 122 | 872 | 1.7 | 1,008.3 | 1,008.3 | 1,009.1 | 0.8 |
| AL | 53,093 | 184 | 893 | 3.0 | 1,011.3 | 1,011.3 | 1,011.3 | 0.0 |
| AM | 54,088 | 95 | 297 | 9.0 | 1,012.6 | 1,012.6 | 1,012.6 | 0.0 |
| AN | 55,688 | 89 | 521 | 2.7 | 1,021.7 | 1,021.7 | 1,022.5 | 0.8 |
| AO | 57,426 | 50 | 264 | 5.3 | 1,030.9 | 1,030.9 | 1,031.7 | 0.8 |
| AP | 58,819 | 41 | 230 | 6.1 | 1,042.0 | 1,042.0 | 1,042.1 | 0.1 |

[1]Feet above confluence with Chattahoochee River

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**SOPE CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Sweat Mountain Creek | | | | | | | | |
| A | 268[1] | 87 | 301 | 7.5 | 940.9 | 938.5[3] | 938.5 | 0.0 |
| B | 1,192[1] | 65 | 374 | 6.0 | 947.3 | 947.3 | 947.3 | 0.0 |
| C | 1,235[1] | 76 | 454 | 4.9 | 947.5 | 947.5 | 947.5 | 0.0 |
| D | 1,827[1] | 191 | 882 | 2.6 | 950.4 | 950.4 | 950.4 | 0.0 |
| E | 4,104[1] | 440 | 915 | 2.3 | 955.8 | 955.8 | 955.8 | 0.0 |
| F | 4,982[1] | 61 | 356 | 5.9 | 956.3 | 956.3 | 956.3 | 0.0 |
| G | 6,247[1] | 30 | 247 | 8.3 | 963.4 | 963.4 | 963.4 | 0.0 |
| H | 6,451[1] | 390 | 9,597 | 0.2 | 985.8 | 985.8 | 985.8 | 0.0 |
| I | 7,636[1] | 234 | 3,894 | 0.7 | 985.8 | 985.8 | 985.8 | 0.0 |
| J | 8,683[1] | 99 | 934 | 2.3 | 985.8 | 985.8 | 985.8 | 0.0 |
| K | 8,814[1] | 324 | 4,679 | 1.5 | 994.7 | 994.7 | 994.7 | 0.0 |
| L | 9,858[1] | 178 | 1,991 | 1.2 | 994.8 | 994.8 | 994.7 | 0.0 |
| M | 10,728[1] | 41 | 286 | 8.2 | 994.4 | 994.4 | 994.4 | 0.0 |
| N | 10,813[1] | 55 | 236 | 10.0 | 994.4 | 994.4 | 994.4 | 0.0 |
| O | 11,555[1] | 113 | 280 | 7.0 | 998.2 | 998.2 | 998.3 | 0.0 |
| P | 11,732[1] | 120 | 381 | 5.1 | 999.9 | 999.9 | 999.9 | 0.0 |
| Sweetwater Creek | | | | | | | | |
| A | 226[2] | 344 | 6,075 | 2.7 | 891.0 | 891.0 | 891.9 | 0.9 |
| B | 365[2] | 357 | 6,671 | 2.5 | 891.5 | 891.5 | 892.4 | 0.9 |
| C | 3,144[2] | 1,374 | 26,546 | 0.6 | 892.4 | 892.4 | 893.4 | 1.0 |
| D | 4,823[2] | 1,092 | 21,160 | 0.8 | 892.5 | 892.5 | 893.4 | 1.0 |
| E | 7,565[2] | 268 | 4,162 | 3.9 | 893.3 | 893.3 | 894.2 | 1.0 |
| F | 7,725[2] | 277 | 4,722 | 3.5 | 893.6 | 893.6 | 894.6 | 1.0 |
| G | 7,855[2] | 402 | 7,488 | 2.2 | 894.0 | 894.0 | 895.0 | 0.9 |
| H | 10,796[2] | 1,216 | 19,033 | 0.8 | 894.7 | 894.7 | 895.7 | 1.0 |
| I | 10,933[2] | 1,261 | 20,440 | 0.7 | 894.8 | 894.8 | 895.7 | 1.0 |
| J | 14,301 | 1,597 | 19,587 | 0.8 | 894.9 | 894.9 | 895.9 | 1.0 |
| K | 17,858 | 1,266 | 10,888 | 1.4 | 895.5 | 895.5 | 896.4 | 0.9 |

[1]Feet above confluence with Willeo Creek
[2]Feet above County Boundary
[3]Elevation computed without consideration of backwater effects from Willeo Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**SWEAT MOUNTAIN CREEK – SWEETWATER CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Sweetwater Creek ( Continue ) | | | | | | | | |
| L | 17,983[1] | 1,312 | 12,886 | 1.2 | 896.0 | 896.0 | 896.9 | 0.9 |
| M | 21,118[1] | 160 | 2,698 | 5.3 | 896.0 | 896.0 | 896.9 | 0.8 |
| N | 25,215[1] | 846 | 12,579 | 1.1 | 898.1 | 898.1 | 898.9 | 0.8 |
| O | 25,308[1] | 871 | 10,703 | 1.3 | 898.0 | 898.0 | 899.0 | 1.0 |
| P | 25,731[1] | 669 | 8,384 | 1.7 | 898.4 | 898.4 | 899.1 | 0.7 |
| Q | 26,183[1] | 493 | 6,811 | 2.1 | 898.5 | 898.5 | 899.3 | 0.8 |
| R | 27,267[1] | 241 | 4,566 | 3.1 | 898.8 | 898.8 | 899.7 | 0.9 |
| S | 27,463[1] | 229 | 4,349 | 3.3 | 899.4 | 899.4 | 900.2 | 0.8 |
| T | 28,379[1] | 406 | 7,477 | 1.9 | 900.1 | 900.1 | 900.9 | 0.8 |
| U | 29,351[1] | 521 | 9,912 | 1.4 | 901.2 | 901.2 | 901.8 | 0.7 |
| V | 32,574[1] | 741 | 12,856 | 1.0 | 901.2 | 901.2 | 902.1 | 0.8 |
| W | 37,566[1] | 530 | 6,272 | 2.1 | 901.5 | 901.5 | 902.5 | 0.9 |
| X | 37,705[1] | 600 | 8,637 | 1.5 | 901.9 | 901.9 | 902.9 | 1.0 |
| Y | 41,032[1] | 521 | 6,225 | 2.0 | 902.4 | 902.4 | 903.4 | 1.0 |
| Z | 44,161[1] | 742 | 8,285 | 1.5 | 902.9 | 902.9 | 903.9 | 1.0 |
| AA | 48,682[1] | 769 | 8,321 | 1.5 | 904.3 | 904.3 | 905.3 | 1.0 |
| AB | 48,793[1] | 725 | 7,682 | 1.6 | 904.7 | 904.7 | 905.3 | 0.7 |
| AC | 51,792[1] | 1,648 | 25,402 | 0.5 | 905.3 | 905.3 | 906.1 | 0.8 |
| AD | 54,621[1] | 514 | 6,433 | 1.8 | 905.3 | 905.3 | 906.2 | 0.8 |
| AE | 54,745[1] | 510 | 6,070 | 1.9 | 905.5 | 905.5 | 906.3 | 0.8 |
| AF | 59,345[1] | 859 | 11,851 | 1.0 | 906.3 | 906.3 | 907.1 | 0.8 |
| AG | 61,836[1] | 189 | 3,559 | 3.2 | 906.7 | 906.7 | 907.5 | 0.8 |
| AH | 62,001[1] | 189 | 3,052 | 3.7 | 907.9 | 907.9 | 908.7 | 0.8 |
| AI | 63,722[1] | 880 | 12,910 | 0.9 | 908.6 | 908.6 | 909.5 | 0.9 |
| Tanyard Creek | | | | | | | | |
| A | 5,007[2] | 150 | 558 | 2.7 | 861.1 | 849.8[3] | 850.4 | 0.6 |

[1]Feet above confluence with Lake Allatoona
[2]Feet above County Boundary
[2]Elevation computed without considering backwater effects from Lake Allatoona

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**SWEETWATER CREEK – TANYARD CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Tanyard Creek (Continue) | | | | | | | | |
| B | 6,035[1] | 150 | 458 | 3.3 | 861.1 | 853.9[4] | 854.6 | 0.7 |
| C | 6,891[1] | 100 | 270 | 5.6 | 861.1 | 858.1[4] | 858.3 | 0.2 |
| D | 7,203[1] | 200 | 1,426 | 1.1 | 863.1 | 863.1 | 863.9 | 0.8 |
| E | 8,137[1] | 100 | 460 | 3.3 | 863.2 | 863.2 | 864.1 | 0.9 |
| F | 9,188[1] | 127 | 497 | 3.0 | 866.2 | 866.2 | 866.9 | 0.7 |
| G | 9,476[1] | 80 | 322 | 4.6 | 867.5 | 867.5 | 868.1 | 0.6 |
| H | 10,418[1] | 100 | 448 | 3.3 | 870.1 | 870.1 | 871.1 | 1.0 |
| I | 11,628[1] | 60 | 478 | 3.0 | 873.1 | 873.1 | 874.0 | 0.9 |
| J | 12,676[1] | 100 | 314 | 4.6 | 878.5 | 878.5 | 879.0 | 0.5 |
| K | 14,179[1] | 130 | 504 | 2.7 | 885.5 | 885.5 | 886.5 | 1.0 |
| L | 14,649[1] | 144 | 679 | 2.0 | 887.0 | 887.0 | 887.9 | 0.9 |
| M | 15,401[1] | 96 | 471 | 2.9 | 891.7 | 891.7 | 891.7 | 0.0 |
| N | 16,595[1] | 170 | 638 | 2.2 | 895.0 | 895.0 | 895.8 | 0.8 |
| O | 17,433[1] | 80 | 312 | 4.0 | 900.7 | 900.7 | 901.0 | 0.3 |
| P | 18,898[1] | 70 | 700 | 1.8 | 912.1 | 912.1 | 912.7 | 0.6 |
| Q | 19,828[1] | 150 | 1,317 | 1.0 | 912.3 | 912.3 | 913.1 | 0.8 |
| R | 20,354[1] | 65 | 261 | 3.1 | 913.0 | 913.0 | 913.5 | 0.5 |
| S | 21,156[1] | 25 | 150 | 5.4 | 919.9 | 919.9 | 920.3 | 0.4 |
| Tate Creek | | | | | | | | |
| A | 750[2] | 224 | 676 | 2.2 | 896.4 | 891.9[5] | 891.9 | 0.0 |
| B | 5,210[2] | 227/50[3] | 475 | 1.7 | 908.8 | 908.8 | 909.5 | 0.7 |
| C | 5,560[2] | 824/50[3] | 3,701 | 0.4 | 943.4 | 943.4 | 943.4 | 0.0 |
| D | 11,690[2] | 185 | 1,408 | 3.9 | 945.7 | 945.7 | 945.9 | 0.2 |
| E | 12,860[2] | 358 | 3,278 | 1.7 | 963.0 | 963.0 | 963.0 | 0.0 |
| F | 14,070[2] | 190 | 1,271 | 4.3 | 963.3 | 963.3 | 963.3 | 0.0 |
| G | 15,115[2] | 222 | 3,013 | 0.3 | 984.3 | 984.3 | 984.3 | 0.0 |

[1]Feet above confluence with Lake Allatoona

[2]Feet above confluence with Noonday Creek

[3]Total width/width within county

[4]Elevation computed without consideration of backwater effects from Lake Allatoona

[5]Elevation computed without consideration of backwater effects from Noonday Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**TANYARD CREEK– TATE CREEK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Tate Creek (Continued) | | | | | | | | |
| H | 16,140[1] | 334 | 1,998 | 1.7 | 993.3 | 993.3 | 993.3 | 0.0 |
| I | 18,605[1] | 163 | 886 | 3.8 | 993.3 | 993.3 | 993.3 | 0.0 |
| J | 20,130[1] | 205 | 1,335 | 2.5 | 1,022.0 | 1,022.0 | 1,022.0 | 0.0 |
| K | 21,585[1] | 64 | 82 | 6.5 | 1,026.2 | 1,026.2 | 1,026.2 | 0.0 |
| Terrell Branch | | | | | | | | |
| A | 1,267[2] | 130 | 322 | 4.3 | 802.0 | 802.0 | 802.3 | 0.3 |
| B | 2,059[2] | 52 | 259 | 5.4 | 805.6 | 805.6 | 806.6 | 1.0 |
| C | 2,957[2] | 48 | 166 | 8.4 | 819.0 | 819.0 | 819.0 | 0.0 |
| Theater Branch | | | | | | | | |
| A | 599[3] | 262 | 701 | 5.3 | 922.7 | 921.8[4] | 922.3 | 0.5 |
| B | 785[3] | 73 | 751 | 5.3 | 924.5 | 924.5 | 925.2 | 0.7 |
| C | 919[3] | 76 | 651 | 6.1 | 928.7 | 928.7 | 928.7 | 0.0 |
| D | 2,852[3] | 41 | 225 | 10.3 | 933.9 | 933.9 | 933.9 | 0.0 |
| E | 2,930[3] | 78 | 583 | 4.0 | 939.9 | 939.9 | 940.6 | 0.7 |
| F | 3,345[3] | 125 | 878 | 2.6 | 940.4 | 940.4 | 941.2 | 0.8 |
| G | 3,587[3] | 121 | 1,356 | 1.7 | 944.5 | 944.5 | 945.1 | 0.6 |
| H | 4,067[3] | 91 | 628 | 4.1 | 944.7 | 944.7 | 945.1 | 0.4 |
| I | 4,145[3] | 147 | 789 | 3.5 | 944.7 | 944.7 | 945.3 | 0.6 |
| J | 5,330[3] | 50 | 241 | 9.6 | 947.2 | 947.2 | 947.2 | 0.0 |
| K | 5,427[3] | 95 | 845 | 3.2 | 952.1 | 952.1 | 952.8 | 0.7 |
| L | 6,037[3] | 168 | 1,382 | 1.7 | 952.8 | 952.8 | 953.7 | 0.9 |
| M | 6,851[3] | 109 | 407 | 5.7 | 954.2 | 954.2 | 954.5 | 0.3 |
| N | 8,032[3] | 38 | 110 | 9.7 | 962.5 | 962.5 | 962.5 | 0.0 |
| O | 8,137[3] | 53 | 220 | 5.4 | 964.3 | 964.3 | 964.3 | 0.0 |
| P | 9,000[3] | 43 | 120 | 8.9 | 969.6 | 969.6 | 970.1 | 0.5 |

[1]Feet above confluence with Noonday Creek
[2]Feet above confluence with Chattahoochee River
[3]Feet above confluence with Nickajack Creek
[4]Elevation computed without consideration of backwater effects from Nickajack Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**TATE CREEK–TERRELL BRANCH – THEATER BRANCH**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Theater Branch(Continue) | | | | | | | | |
| Q | 9,399[1] | 80 | 217 | 7.2 | 974.6 | 974.6 | 974.2 | 0.2 |
| R | 9,459[1] | 38 | 289 | 3.7 | 978.0 | 978.0 | 978.9 | 0.9 |
| Thompson Creek | | | | | | | | |
| A | 12,032[2] | 94 | 530 | 5.0 | 934.1 | 932.7[4] | 933.4 | 0.7 |
| B | 27,042[2] | 53 | 370 | 5.3 | 938.4 | 938.4 | 939.2 | 0.8 |
| C | 40,102[2] | 79 | 564 | 1.6 | 947.6 | 947.6 | 948.4 | 0.8 |
| D | 48,722[2] | 39 | 297 | 3.1 | 955.6 | 955.6 | 956.2 | 0.6 |
| E | 58,072[2] | 73 | 427 | 2.1 | 965.0 | 965.0 | 966.0 | 1.0 |
| Timber Ridge Branch | | | | | | | | |
| A | 1,220[3] | 180 | 527 | 6.9 | 863.3 | 850.2[5] | 850.3 | 0.1 |
| B | 1,448[3] | 46 | 268 | 13.6 | 863.3 | 853.8[5] | 853.8 | 0.0 |
| C | 1,533[3] | 50 | 675 | 5.4 | 864.7 | 864.7 | 865.1 | 0.4 |
| D | 1,549[3] | 257 | 1609 | 2.3 | 864.7 | 864.7 | 865.5 | 0.8 |
| E | 1,878[3] | 87 | 778 | 4.6 | 864.8 | 864.8 | 865.5 | 0.7 |
| F | 1,927[3] | 88 | 420 | 8.5 | 866.0 | 866.0 | 866.5 | 0.5 |
| G | 2,007[3] | 222 | 1582 | 2.3 | 871.8 | 871.8 | 871.8 | 0.0 |
| H | 2,091[3] | 240 | 1761 | 2.3 | 871.8 | 871.8 | 871.8 | 0.0 |
| I | 3,767[3] | 132 | 1012 | 3.9 | 872.4 | 872.4 | 872.5 | 0.1 |
| J | 4,757[3] | 69 | 515 | 5.5 | 872.8 | 872.8 | 873.0 | 0.2 |
| K | 4,769[3] | 69 | 571 | 4.9 | 872.8 | 872.8 | 873.4 | 0.6 |
| L | 4,854[3] | 36 | 260 | 10.9 | 873.1 | 873.1 | 873.4 | 0.3 |
| M | 4,938[3] | 45 | 459 | 6.1 | 876.1 | 876.1 | 877.0 | 0.9 |
| N | 5,681[3] | 170 | 1052 | 1.5 | 877.9 | 877.9 | 878.7 | 0.8 |
| O | 6,064[3] | 56 | 367 | 4.2 | 878.0 | 878.0 | 878.8 | 0.8 |
| P | 6,465[3] | 28 | 154 | 10.1 | 878.7 | 878.7 | 879.2 | 0.5 |

[1]Feet above confluence with Nickajack Creek
[2]Feet above confluence with Sewell Mill Creek
[3]Feet above confluence with Willeo Creek
[4]Elevation computed without consideration of backwater effects from Sewell Mill Creek
[5]Elevation computed without consideration of backwater effects from Willeo Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

# COBB COUNTY, GA AND INCORPORATED AREAS

## FLOODWAY DATA

## THEATER BRANCH – THOMPSON CREEK–TIMBER RIDGE BRANCH

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Trickum Creek | | | | | | | | |
| A | 604[1] | 234 | 1,722 | 3.7 | 914.6 | 914.6 | 914.6 | 0.0 |
| B | 1,660[1] | 196 | 2,384 | 2.7 | 918.9 | 918.9 | 919.8 | 0.9 |
| C | 2,844[1] | 313 | 3,179 | 2.0 | 919.8 | 919.8 | 920.6 | 0.8 |
| D | 4,028[1] | 253 | 2,207 | 2.9 | 920.6 | 920.6 | 921.5 | 0.9 |
| E | 5,452[1] | 218 | 1,327 | 4.9 | 924.5 | 924.5 | 924.9 | 0.4 |
| F | 6,538[1] | 351 | 3,186 | 2.1 | 933.1 | 933.1 | 933.4 | 0.3 |
| G | 7,771[1] | 172 | 874 | 5.0 | 936.0 | 936.0 | 936.4 | 0.4 |
| H | 9,022[1] | 123 | 663 | 6.4 | 944.0 | 944.0 | 944.5 | 0.5 |
| I | 10,059[1] | 138 | 1,010 | 4.2 | 954.9 | 954.9 | 954.9 | 0.0 |
| J | 11,278[1] | 81 | 508 | 8.3 | 969.6 | 969.6 | 970.6 | 1.0 |
| K | 12,448[1] | 131 | 505 | 8.4 | 996.4 | 996.4 | 996.6 | 0.2 |
| L | 13,468[1] | 74 | 487 | 6.5 | 1,005.6 | 1,005.6 | 1,006.6 | 1.0 |
| M | 14,860[1] | 39 | 195 | 5.7 | 1,019.5 | 1,019.5 | 1,019.9 | 0.4 |
| N | 16,049[1] | 87 | 184 | 6.0 | 1,032.6 | 1,032.6 | 1,032.6 | 0.0 |
| O | 17,299[1] | 60 | 181 | 6.1 | 1,046.5 | 1,046.5 | 1,046.6 | 0.1 |
| P | 17,902[1] | 47 | 120 | 9.2 | 1,054.0 | 1,054.0 | 1,054.0 | 0.0 |
| Trickum Creek Tributary | | | | | | | | |
| A | 1,533[2] | 129 | 911 | 2.3 | 948.7 | 948.7 | 949.0 | 0.3 |
| B | 2,221[2] | 74 | 262 | 8.1 | 954.3 | 954.3 | 954.5 | 0.2 |
| C | 3,360[2] | 37 | 182 | 11.7 | 972.5 | 972.5 | 972.8 | 0.3 |
| D | 4,685[2] | 42 | 176 | 8.0 | 991.8 | 991.8 | 992.2 | 0.4 |
| E | 5,374[2] | 65 | 189 | 7.5 | 1,007.9 | 1,007.9 | 1,007.9 | 0.0 |
| F | 6,446[2] | 52 | 171 | 8.3 | 1,026.2 | 1,026.2 | 1,026.3 | 0.1 |
| G | 7,306[2] | 37 | 80 | 9.0 | 1,049.2 | 1,049.2 | 1,049.2 | 0.0 |
| H | 8,120[2] | 24 | 72 | 10.0 | 1,077.4 | 1,077.4 | 1,077.4 | 0.0 |

[1]Feet above confluence with Rubes Creek
[2]Feet above confluence with Trickum Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**TRICKUM CREEK – TRICKUM CREEK TRIBUTARY**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Vinings Branch | | | | | | | | |
| A | 739[1] | 116 | 512 | 2.2 | 775.5 | 765.5[3] | 766.1 | 0.6 |
| B | 1,637[1] | 127 | 395 | 2.5 | 775.5 | 769.1[3] | 769.9 | 0.8 |
| C | 2,323[1] | 84 | 186 | 5.3 | 778.9 | 778.9 | 778.9 | 0.0 |
| Ward Creek | | | | | | | | |
| A | 2,605[2] | 300 | 1,623 | 2.3 | 926.1 | 926.1 | 927.0 | 0.9 |
| B | 3,716[2] | 330 | 2,163 | 1.7 | 928.1 | 928.1 | 929.0 | 0.9 |
| C | 4,190[2] | 400 | 1,860 | 2.0 | 929.0 | 929.0 | 930.0 | 1.0 |
| D | 4,920[2] | 257 | 977 | 3.7 | 933.0 | 933.0 | 933.8 | 0.8 |
| E | 5,842[2] | 620 | 4,217 | 0.9 | 936.0 | 936.0 | 936.0 | 0.0 |
| F | 6,505[2] | 360 | 1,448 | 2.5 | 936.6 | 936.6 | 936.7 | 0.1 |
| G | 6,954[2] | 300 | 1,508 | 2.4 | 938.2 | 938.2 | 939.0 | 0.8 |
| H | 7,255[2] | 200 | 1,301 | 2.8 | 939.3 | 939.3 | 940.1 | 0.8 |
| I | 9,860[2] | 400 | 1,932 | 1.9 | 945.8 | 945.8 | 946.6 | 0.8 |
| J | 10,740[2] | 300 | 1,862 | 2.1 | 947.3 | 947.3 | 948.1 | 0.8 |
| K | 11,876[2] | 290 | 1,696 | 2.3 | 949.4 | 949.4 | 950.4 | 1.0 |
| L | 12,893[2] | 265 | 19,912 | 2.0 | 952.2 | 952.2 | 953.1 | 0.9 |
| M | 13,720[2] | 270 | 1,391 | 2.8 | 954.4 | 954.4 | 954.8 | 0.4 |
| N | 14,699[2] | 300 | 2,088 | 1.9 | 957.4 | 957.4 | 957.7 | 0.3 |
| O | 15,868[2] | 350 | 1,003 | 3.9 | 963.4 | 963.4 | 963.5 | 0.1 |
| P | 16,747[2] | 450 | 3,406 | 1.0 | 965.5 | 965.5 | 965.8 | 0.3 |
| Q | 17,249[2] | 360 | 1,910 | 1.7 | 965.9 | 965.9 | 966.2 | 0.3 |
| R | 18,312[2] | 300 | 1,385 | 2.3 | 968.8 | 968.8 | 969.2 | 0.4 |
| S | 19,190[2] | 400 | 1,959 | 1.7 | 971.6 | 971.6 | 972.0 | 0.4 |
| T | 19,684[2] | 400 | 2,220 | 1.5 | 972.7 | 972.7 | 973.1 | 0.4 |

[1]Feet above confluence with Chattahoochee River
[2]Feet above confluence with Noses Creek
[3]Elevation computed without consideration of backwater effects from Chattahoochee River

TABLE 6

**FEDERAL EMERGENCY MANAGEMENT AGENCY**

# COBB COUNTY, GA AND INCORPORATED AREAS

# FLOODWAY DATA

## VININGS BRANCH – WARD CREEK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Ward Creek (continue) | | | | | | | | |
| U | 20,995[1] | 220 | 1,189 | 2.7 | 979.4 | 979.4 | 979.7 | 0.3 |
| V | 21,754[1] | 500 | 2,699 | 1.2 | 981.1 | 981.1 | 981.5 | 0.4 |
| W | 22,457[1] | 320 | 1,824 | 1.8 | 981.9 | 981.9 | 982.4 | 0.5 |
| X | 23,491[1] | 220 | 1,044 | 3.1 | 984.9 | 984.9 | 985.2 | 0.3 |
| Y | 24,191[1] | 180 | 608 | 5.3 | 987.5 | 987.5 | 987.7 | 0.2 |
| Z | 24,868[1] | 120 | 659 | 4.9 | 991.6 | 991.6 | 991.9 | 0.3 |
| AA | 25,501[1] | 170 | 908 | 3.6 | 996.6 | 996.6 | 996.8 | 0.2 |
| AB | 26,187[1] | 100 | 643 | 3.1 | 1,000.1 | 1,000.1 | 1,000.2 | 0.1 |
| AC | 27,044[1] | 258 | 825 | 2.4 | 1,007.3 | 1,007.3 | 1,007.4 | 0.1 |
| AD | 27,338[1] | 100 | 466 | 3.4 | 1,007.9 | 1,007.9 | 1,007.9 | 0.0 |
| AE | 27,749[1] | 100 | 303 | 5.2 | 1,011.2 | 1,011.2 | 1,011.4 | 0.2 |
| AF | 28,523[1] | 80 | 452 | 3.5 | 1,015.1 | 1,015.1 | 1,015.5 | 0.4 |
| AG | 29,299[1] | 54 | 217 | 7.3 | 1,018.9 | 1,018.9 | 1,018.9 | 0.0 |
| AH | 29,699[1] | 55 | 291 | 5.5 | 1,025.2 | 1,025.2 | 1,025.3 | 0.1 |
| AI | 30,258[1] | 31 | 185 | 8.6 | 1,034.1 | 1,034.1 | 1,034.2 | 0.1 |
| AJ | 30,835[1] | 44 | 309 | 5.1 | 1,038.8 | 1,038.8 | 1,039.7 | 0.9 |
| AK | 31,061[1] | 80 | 430 | 3.7 | 1,042.7 | 1,042.7 | 1,043.5 | 0.8 |
| AL | 31,356[1] | 35 | 221 | 7.2 | 1,043.8 | 1,043.8 | 1,044.4 | 0.6 |
| AM | 31,796[1] | 23 | 65 | 6.2 | 1,050.2 | 1,050.2 | 1,050.9 | 0.7 |
| Westside Branch | | | | | | | | |
| A | 422[2] | 31 | 203 | 9.9 | 1,019.0 | 1,016.4[3] | 1,017.1 | 0.7 |
| B | 1,109[2] | 78 | 354 | 5.6 | 1,024.8 | 1,024.8 | 1,025.8 | 1.0 |
| C | 1,901[2] | 167 | 1,071 | 1.9 | 1,034.4 | 1,034.4 | 1,035.4 | 1.0 |
| D | 2,482[2] | 109 | 559 | 3.6 | 1,040.6 | 1,040.6 | 1,041.4 | 0.8 |
| E | 3,590[2] | 73 | 406 | 2.5 | 1,054.4 | 1,054.4 | 1,054.5 | 0.1 |
| F | 4,488[2] | 41 | 117 | 8.6 | 1,065.5 | 1,065.5 | 1,065.5 | 0.0 |

[1]Feet above confluence with Noses Creek
[2]Feet above confluence with Ward Creek
[3]Elevation computed without consideration of backwater effects from Ward Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**FLOODWAY DATA**

**WARD CREEK–WESTSIDE BRANCH**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Wildhorse Creek | | | | | | | | |
| A | 151[1] | 673 | 2788 | 1.1 | 903.0 | 896.6[3] | 897.5 | 0.9 |
| B | 1,601[1] | 305 | 1762 | 1.8 | 903.0 | 899.7[3] | 900.2 | 0.6 |
| C | 3,269[1] | 432 | 1406 | 1.4 | 903.0 | 900.3[3] | 901.2 | 0.9 |
| D | 5,535[1] | 55 | 357 | 5.7 | 907.9 | 907.9 | 908.4 | 0.5 |
| E | 5,628[1] | 44 | 343 | 5.9 | 909.6 | 909.6 | 910.2 | 0.6 |
| F | 8,196[1] | 134 | 338 | 5.9 | 915.3 | 915.3 | 915.6 | 0.3 |
| G | 10,501[1] | 111 | 485 | 4.0 | 924.8 | 924.8 | 925.4 | 0.7 |
| H | 10,645[1] | 113 | 576 | 3.4 | 926.8 | 926.8 | 926.8 | 0.0 |
| I | 13,936[1] | 51 | 265 | 7.0 | 941.8 | 941.8 | 941.8 | 0.0 |
| J | 14,014[1] | 86 | 614 | 3.0 | 944.1 | 944.1 | 944.7 | 0.5 |
| K | 15,440[1] | 147 | 252 | 4.3 | 952.6 | 952.6 | 952.6 | 0.0 |
| Wildwood Branch | | | | | | | | |
| A | 646[2] | 200 | 693 | 3.0 | 985.1 | 970.3[4] | 970.5 | 0.2 |
| B | 1,068[2] | 105 | 381 | 5.5 | 985.1 | 973.3[4] | 973.3 | 0.0 |
| C | 1,388[2] | 66 | 348 | 6.0 | 985.1 | 975.0[4] | 975.1 | 0.1 |
| D | 1,933[2] | 104 | 337 | 6.2 | 985.1 | 979.8[4] | 979.9 | 0.1 |
| E | 2,778[2] | 96 | 375 | 3.9 | 985.1 | 985.0[4] | 985.3 | 0.3 |
| F | 3,395[2] | 97 | 372 | 3.9 | 987.3 | 987.3 | 987.6 | 0.3 |
| G | 3,804[2] | 78 | 307 | 4.7 | 993.0 | 993.0 | 993.0 | 0.0 |
| H | 4,229[2] | 130 | 308 | 4.7 | 997.5 | 997.5 | 997.5 | 0.0 |
| I | 4,757[2] | 59 | 881 | 1.7 | 1,015.6 | 1,015.6 | 1,015.8 | 0.2 |
| J | 5,759[2] | 58 | 135 | 5.8 | 1,021.1 | 1,021.1 | 1,021.2 | 0.1 |
| K | 6,130[2] | 53 | 152 | 5.1 | 1,027.2 | 1,027.2 | 1,027.7 | 0.5 |

[1]Feet above confluence with Noses Creek
[2]Feet above confluence with Sope Creek
[3]Elevation computed without consideration of backwater effects from Noses Creek
[4]Elevation computed without consideration of backwater effects from Sope Creek

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

# COBB COUNTY, GA AND INCORPORATED AREAS

# FLOODWAY DATA

# WILDHORSE CREEK – WILDWOOD BRANCH

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---|---|---|---|---|---|---|---|
| CROSS SECTION | DISTANCE[1] | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Willeo Creek | | | | | | | | |
| A | 948[1] | 182\182[2] | 774 | 10.0 | 862.1 | 857.4[3] | 857.4 | 0.0 |
| B | 1,035[1] | 395\394[2] | 3,349 | 2.3 | 863.1 | 863.1 | 863.1 | 0.0 |
| C | 2,563[1] | 157\157[2] | 1,086 | 6.0 | 863.4 | 863.4 | 863.4 | 0.0 |
| D | 7,154[1] | 97\45[2] | 758 | 9.9 | 868.3 | 868.3 | 869.0 | 0.7 |
| E | 7,308[1] | 105\34[2] | 1,049 | 7.1 | 873.0 | 873.0 | 873.1 | 0.1 |
| F | 9,759[1] | 365\50[2] | 3,570 | 2.1 | 876.1 | 876.1 | 876.4 | 0.3 |
| G | 12,753[1] | 78\26[2] | 917 | 6.5 | 877.6 | 877.6 | 878.3 | 0.7 |
| H | 13,334[1] | 72\72[2] | 583 | 10.3 | 889.1 | 889.1 | 889.8 | 0.7 |
| I | 14,910[1] | 69\29[2] | 494 | 10.5 | 898.3 | 898.3 | 898.7 | 0.4 |
| J | 15,041[1] | 83\42[2] | 835 | 6.2 | 903.0 | 903.0 | 903.1 | 0.1 |
| K | 17,263[1] | 131\52[2] | 672 | 7.7 | 904.1 | 904.1 | 904.8 | 0.7 |
| L | 17,373[1] | 179\81[2] | 1,322 | 3.9 | 906.6 | 906.6 | 906.9 | 0.3 |
| M | 19,148[1] | 116\93[2] | 834 | 4.9 | 908.9 | 908.9 | 909.9 | 1.0 |
| N | 20,745[1] | 67\55[2] | 629 | 6.4 | 912.4 | 912.4 | 912.9 | 0.5 |
| O | 20,868[1] | 109\36[2] | 886 | 4.5 | 913.2 | 913.2 | 913.6 | 0.4 |
| P | 23,986[1] | 214\111[2] | 1,281 | 3.1 | 920.8 | 920.8 | 921.1 | 0.3 |
| Q | 24,448[1] | 112\58[2] | 548 | 7.3 | 920.9 | 920.9 | 921.3 | 0.4 |
| R | 27,255[1] | 43\43[2] | 346 | 11.2 | 929.7 | 929.7 | 929.9 | 0.2 |
| S | 28,164[1] | 66\0[2*] | 664 | 5.8 | 938.8 | 938.8 | 939.6 | 0.8 |
| R | 28,526[1] | 48\48[2] | 486 | 7.9 | 939.4 | 939.4 | 940.1 | 0.7 |
| U | 29,256[1] | 39\39[2] | 269 | 6.8 | 941.6 | 941.6 | 942.2 | 0.6 |

[1]Feet above confluence with Chattahoochee River
[2]Total width/width within county
[3]Elevation computed without consideration of backwater effects from Chattahoochee River
*Floodway lies entirely outside of Cobb County

TABLE 6

FEDERAL EMERGENCY MANAGEMENT AGENCY

# COBB COUNTY, GA AND INCORPORATED AREAS

## FLOODWAY DATA

## WILLEO CREEK

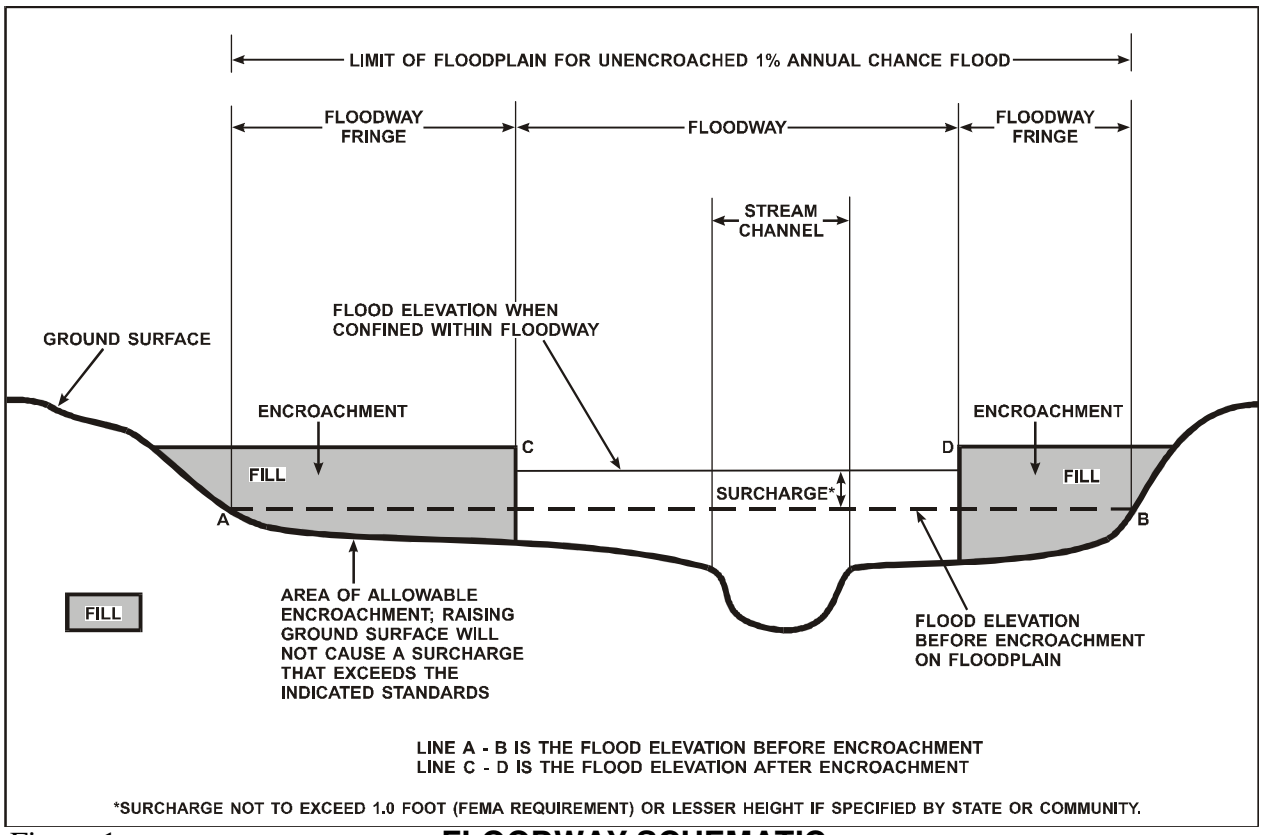


Figure 1 **FLOODWAY SCHEMATIC**

## 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 AH

Zone AH is the flood insurance rate zone that corresponds to the areas of 100-year shallow flooding (usually areas of ponding) where average depths are between 1

and 3 feet. Whole-foot base flood elevations derived from the detailed hydraulic analyses are shown at selected intervals within this zone.

Zone AO

Zone AO is the flood insurance rate zone that corresponds to the areas of 100-year shallow flooding (usually sheet flow on sloping terrain) where average depths are between 1 and 3 feet. Average whole-foot depths derived from the detailed hydraulic analyses are shown within this zone.

Zone A99

Zone A99 is the flood insurance rate zone that corresponds to areas of the 100-year floodplain that will be protected by a Federal flood protection system where construction has reached specified statutory milestones. No base flood elevations or depths are shown within this zone.

Zone V

Zone V is the flood insurance risk zone that corresponds to the 1-percent-annual-chance coastal floodplains that have additional hazards associated with storm waves. Because approximate hydraulic analyses are performed for such areas, no BFEs are shown within this zone.

Zone VE

Zone VE is the flood insurance risk zone that corresponds to the 1-percent-annual-chance coastal floodplains that have additional hazards associated with storm waves. 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 existing-conditions 0.2-percent-annual-chance floodplain, areas between the existing-conditions and future-conditions 1-percent-annual-chance floodplain boundaries, and to 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.

Zone X (Future Base Flood)

Zone X (Future Base Flood) is the flood insurance risk zone that corresponds to the 1-percent-annual-chance floodplains that are determined based on future-conditions hydrology. No BFEs or base flood depths are shown within this zone.

Zone D

Zone D is the flood insurance risk zone that corresponds to unstudied areas where flood hazards are undetermined, but possible.

## 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 existing-conditions 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 for existing-conditions 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 cross-hatching, tints, screens, and symbols, the existing- and future-conditions 1-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 Cobb 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 7, "Community Map History."

## 7.0 OTHER STUDIES

Flood elevations for streams studied by limited detailed methods were provided to Cobb County Stormwater Management Division at model cross sections. Contact the local floodplain administrator for more information.

| COMMUNITY NAME | INITIAL IDENTIFICATION | FLOOD HAZARD BOUNDARY MAP REVISIONS DATE | FIRM EFFECTIVE DATE | FIRM REVISIONS DATE |
|---|---|---|---|---|
| Acworth, City of | April 5, 1974 | February 13, 1976 | February 15, 1978 | None |
| Austell, City of | April 5, 1974 | February 20, 1976 | December 1, 1977 | September 27, 1991 |
| Cobb County (Unincorporated Areas) | October 3, 1975 | None | January 3, 1979 | December 4, 1985<br>August 3, 1989 |
| Kennesaw, City of | June 14, 1974 | April 16, 1976 | August 1, 1980 | September 6, 1989 |
| Marietta, City of | June 21, 1974 | January 7, 1977 | February 15, 1978 | January 5, 1984<br>June 17, 1986<br>November 15, 1989 |
| Powder Springs, City of | April 12, 1974 | August 27, 1976 | August 1, 1980 | April 17, 1984 |
| Smyrna, City of | June 7, 1974 | January 30, 1976 | December 15, 1977 | March 12, 1982 |

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COBB COUNTY, GA AND INCORPORATED AREAS**

**COMMUNITY MAP HISTORY**

## 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, Federal Regional Center, 3003 Chamblee-Tucker Road, Atlanta, Georgia 30341.

## 9.0 BIBLIOGRAPHY AND REFERENCES


2010 U.S. Census: Cobb County, Georgia. Retrieved on April 19, 2011, from http://factfinder2.census.gov

Dewberry and Davis LLC, Georgia Department of Natural Resources Cooperating Technical Partner Mapping Activity Statement No. FY09.09, FEMA Contract Number: EMA-2009-CA-5930, Chattahoochee River Hydrologic Study: Buford Dam to West Point Lake, April 2011

Dewberry and Davis LLC, Georgia Department of Natural Resources Cooperating Technical Partner Mapping Activity Statement No. FY09.09, FEMA Contract Number: EMA-2009-CA-5930, Chattahoochee River Hydraulic Study, May 2011.

Dewberry and Davis LLC, Georgia Department of Natural Resources Cooperating Technical Partner Mapping Activity Statement No. FY09.09, FEMA Contract Number: EMA-2009-CA-5930, Cobb County, GA: Hydrology Report, October 2010.

Dewberry and Davis LLC, Georgia Department of Natural Resources Cooperating Technical Partner Mapping Activity Statement No. FY09.09, FEMA Contract Number: EMA-2009-CA-5930, Cobb County, GA: Hydraulic Report, October 2010.

Federal Emergency Management Agency, Flood Insurance Study, Cobb County, Georgia (Unincorporated Areas), Flood Insurance Study, August 18, 1992; Flood Insurance Rate Map, August 2, 1992.

Federal Emergency Management Agency, Flood Insurance Study, Cobb County, Georgia (Unincorporated Areas), Flood Insurance Study, December 16, 2008; Flood Insurance Rate Map, December 16, 2008.

Braswell Engineering, Inc., Hydrologic Analysis of the Chattahoochee River Basin from Buford Dam to Medlock Bridge, Submittal #1, #2, and #3. 2007.

Interagency Advisory Committee on Water Data, Guidelines for determining flood flow frequency: Bulletin 17B of the Hydrology Subcommittee, Office of Water Data Coordination, U.S. Geological Survey, Reston, VA. 1982.

NOAA National Weather Services, Technical Paper 40: Rainfall Frequency Atlanta of the United States.1961.

Interagency Advisory Committee on Water Data, Guidelines for determining flood flow frequency: Bulletin 17B of the Hydrology Subcommittee, Office of Water Data Coordination, U.S. Geological Survey, Reston, VA, 1982

Atlanta Regional Commission, Atlanta Regional Information System, GIS Data and Multimedia Resources, Volume 1B.

Atlanta Regional Commission and Georgia Department of Natural Resources-Environmental Protection Division. (2003). Georgia Stormwater Management Manual. Atlanta, Georgia.

Chow. (1959). Open Channel Hydraulics. New York, New York.

Cobb County, Georgia. (February 2000 and April 2005). Digital Topography, Contour Interval of 2 feet.

ESRI. (May 2005). Arc Hydro Tools version 1.2. Redlands California.

Federal Emergency Management Agency (August 1989), Flood Insurance Study, Cobb County, Georgia, Unincorporated Areas. Washington, D.C.

U.S.Department of housing and urban development, Federal Insurance Administration, Flood Insurance Study, City of Acworth Cobb County, Georgia, July 1977.

Federal Emergency Management Agency, Flood Insurance Study, City of Kennesaw, Cobb County, Georgia, September 1989.

Flood Insurance Study, City of Marietta, Cobb County Georgia, November 1989.

Flood insurance Study, City of Powder Spring, Cobb County Georgia, November 1984.

Flood insurance Study, City of Smyrna, Cobb County Georgia, March 1982.

Federal Emergency Management Agency. (August 18, 1992). Flood Insurance Study, Cobb County, Georgia and Incorporated Areas. Washington, D.C.

Federal Emergency Management Agency. (December 18, 2008). Flood Insurance Study, Cobb County, Georgia and Incorporated Areas. Washington, D.C.

Federal Emergency Management Agency. (June 8, 2010). Flood Insurance Study, Cobb County, Georgia and Incorporated Areas. Washington, D.C.

Monthly Averages for Marietta, Georgia. (Retrieved on May 6, 2005). Source: http://www.weather.com/.

National Oceanic & Atmospheric Administration. (Retrieved May 10, 2005). Source: www.4.ncdc.noaa.gov

Natural Resources Conservation Service. (June 1986). TR-55, Urban Hydrology for Small Watersheds.

NGS: VERTCON-North American Vertical Datum Conversion Utility, Retrieved on May 4, 2005, from http://www.ngs.noaa.gov/.

U.S. Army Corps of Engineers, Hydrologic Engineering Center. (November 2006). Hydrologic Modeling System, Version 3.1. Davis California.

U.S. Army Corps of Engineers, Hydrologic Engineering Center. (April 2004). HEC-GeoRAS, Version BETA 6.0.

U.S. Army Corps of Engineers, Hydrologic Engineering Center. (May 2003). River Analysis System, Version 3.1.1. Davis California.

U.S. Army Corps of Engineers, Hydrologic Engineering Center. (May 2003). Hydrologic Modeling System, HEC-HMS, Version 2.2.2. Davis, California.

U.S. Army Corps of Engineers. (2002). HEC-RAS River Analysis System Hydraulic Reference Manual. Davis, California.

U.S. Army Corps of Engineers, Hydrologic Engineering Center. (1998). HEC-1 Flood Hydrograph Package, Version 4.1. Davis, California.

U.S. Army Corps of Engineers, Hydrologic Engineering Center. (September 1990). HEC-1 Users Manual, Flood Hydrograph Package. Davis, California.

U.S. Army, Corps of Engineers, Hydrologic Engineering Center. (May 1985). HEC-2 Water Surface Profiles, Generalized Computer Program. Davis, California.

U.S. Army Corps of Engineers, Hydrologic Engineering Center. (January 1985). HEC-1 Flood Hydrograph Package, Computer Program. Davis, California.

U.S. Army Corps of Engineers, Hydrologic Engineering Center, River Analysis System, Version 3.1.3, Davis California.

U.S. Department of Agriculture, Soil Conservation Service. (April 1976). Flood Hazard Analyses – Noonday Creek and Tributaries, Cherokee and Cobb Counties, Georgia.

U.S. Geological Survey. (1986). Simulation of Flood Hydrographs for Georgia Streams, Water Resources Investigations Report 86-4004. Ernest J. Inman (author).

U.S. Geological Survey. (1983). Flood-Frequency Relations for Urban Streams in Metropolitan Atlanta, Georgia, Water Resources Investigations Report 82-4203. Ernest J. Inman (author).

U.S. Geological Survey, Interagency Advisory Committee on Water Data, Office of Water Data Coordination, Hydrology Subcommittee. (September 1981, revised March 1982). Bulletin No. 17B, Guidelines for Determining Flood Flow Frequency.

U.S. Geological Survey. (July 1976). Open-File Report 76-511, Flood Frequency Analyses for Small Streams in Georgia. (H.H. Golden and McGlone Price (authors).

U.S. Geological Survey. (July 1974). An Approach to Estimating Flood Frequency for Urban Areas in Oklahoma. V.B. Sauer (author).

U.S. Geological Survey, (Austell, Georgia, 1954, photo revised 1968 and 1973; Mableton, Georgia, 1954, photo revised 1968; Acworth, Georgia, 1956, photo revised 1968 and 1973; Lost Mountain, Georgia, photo revised 1968; Marietta, Georgia, 1956, photo revised 1968 and 1973; and Sandy Springs, Georgia, 1955, photo revised 1968 and 1973). 7.5 Minute Series Topographic Maps, Scale 1:24,000, Contour Intervals 10 and 20 Feet.

U.S. Weather Bureau. (1961). Rainfall Frequency Atlas of the United States, Technical Paper No. 40.

Woolpert Consultants. (March 1988). Aerial Photographs, Cobb County, Georgia, Scale 1:14,400. Mobile, Alabama.

U.S. Geological Survey. (1977). Roughness Characteristics of Natural Channels, Geological Survey Water-Supply Paper 1849. Washington, D.C.