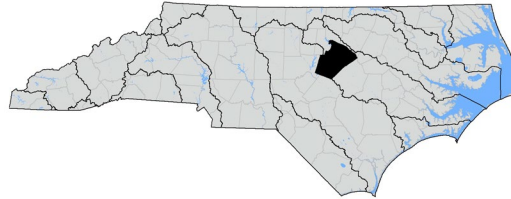


FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

A Report of Flood Hazards in
**WAKE COUNTY, NORTH
CAROLINA AND
INCORPORATED AREAS**



Community Name	Community Number
CITY OF RALEIGH	370243
TOWN OF APEX	370467
TOWN OF CARY	370238
TOWN OF FUQUAY-VARINA	370239
TOWN OF GARNER	370240
TOWN OF HOLLY SPRINGS	370403
TOWN OF KNIGHTDALE	370241
TOWN OF MORRISVILLE	370242
TOWN OF ROLESVILLE	370468
TOWN OF WAKE FOREST	370244
TOWN OF WENDELL	370245
TOWN OF ZEBULON	370246
WAKE COUNTY	370368



REVISED: 7/19/2022

Federal Emergency Management Agency

State of North Carolina

Flood Insurance Study Number

37183CV000E

www.fema.gov and www.ncfloodmaps.com



FOREWORD

This countywide Flood Insurance Study (FIS) Report was produced through a unique cooperative partnership between the State of North Carolina and the Federal Emergency Management Agency (FEMA). The State of North Carolina has implemented a long-term approach to floodplain management to decrease the costs associated with flooding. This is demonstrated by the State's commitment to map floodplain areas at the state level. As a part of this effort, the State of North Carolina has joined with FEMA in a Cooperating Technical State (CTS) agreement to produce and maintain this FIS Report and the accompanying digital Flood Insurance Rate Map (FIRM) for North Carolina.

Flood Insurance Study (FIS) means an examination, evaluation, and determination of flood hazards, corresponding water surface elevations, flood hazard risk zones, and other flood data in a community issued by the North Carolina Floodplain Mapping Program (NCFMP). The Flood Insurance Study (FIS) is comprised of the following products used together: the Digital Flood Hazard Database, the Water Surface Elevation Rasters, the digitally derived, autogenerated Flood Insurance Rate Map and the Flood Insurance Survey Report. A Flood Insurance Survey is a compilation and presentation of flood risk data for specific watercourses, lakes, and coastal flood hazard areas within a community. This report contains detailed flood elevation data, data tables and FIRM indices. When a flood study is complete for the National Flood Insurance Program (NFIP), the digital information, reports and maps are assembled into a FIS. Information shown on in the FIS is provided in digital format by the NCFMP.

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) may not contain all data available within the North Carolina Floodplain Mapping Program. It is advisable to use www.fris.nc.gov/fris or contact the community repository for any additional data.

The following is a list of the publication dates of this Countywide FIS report starting with the initial Report accompanying the North Carolina Statewide FIRM:

Date	Reason
5/2/2006	Initial Statewide FIS Report Effective Date
10/3/2006	Firm update as Border with Harnett County
2/2/2007	Firm update as Border with Chatham County
4/16/2007	Firm update as Border with Granville County
4/16/2013	A portion of the County received new H&H Analysis
11/17/2017	Firm update as a Border with Chatham County
12/6/2019	A portion of the County received new H&H Analysis
7/19/2022	Countywide FIS Report Effective Date

This FIS has been produced as part of the North Carolina Floodplain Mapping Program. Wake County, North Carolina, falls under the administrative jurisdiction of Region IV of the Federal Emergency Management Agency (FEMA). Questions concerning this FIS may be directed to the North Carolina Floodplain Mapping Program at www.ncfloodmaps.com, the FEMA Map Assistance Center by calling the toll-free information line at 1-877-FEMA MAP (1-877-336-2627), or by contacting the FEMA Regional Office at the following address:

FEMA, Federal Insurance and Mitigation Administration
Koger Center - Rutgers Building
3005 Chamblee Tucker Road
Atlanta, Georgia 30341
(770) 220-5400

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1.0 Introduction

1.1 The National Flood Insurance Program

In 1968, Congress created the National Flood Insurance Program (NFIP) in response to the rising cost of taxpayer-funded disaster relief for flood victims and the increasing amount of damage caused by floods. The NFIP makes federally backed flood insurance available in communities that agree to adopt and enforce floodplain management ordinances to reduce future flood damage. Federally backed flood insurance is available in more than 19,000 communities across the United States and its territories.

The NFIP is managed by the Federal Insurance and Mitigation Administration of the Federal Emergency Management Agency (FEMA). The Federal Insurance and Mitigation Administration manages the insurance component of the NFIP and oversees the flood hazard mapping and the floodplain management aspects of the program.

The NFIP, through involvement with communities, the insurance industry, and the lending industry, helps reduce flood damage by nearly \$800 million a year. Further, buildings constructed in compliance with NFIP building standards suffer approximately 80% less damage annually than those not built in compliance. In addition, every \$3 paid in flood insurance claims saves \$1 in disaster assistance payments. The NFIP is self-supporting for the average historical loss year, which means that operating expenses and flood insurance claims are not paid by the taxpayer, but through premiums collected for flood insurance policies.

Additional information of interest to homeowners, community officials, insurance companies, lenders, and study contractors is available in Section 9.0 of this FIS Report and on the NFIP Internet homepage at <http://www.fema.gov/business/nfip/>.

1.2 Purpose of this Flood Insurance Study

Flood Insurance Studies (FISs) are one of the primary means by which the NFIP administers the National Flood Insurance Act of 1968, the Flood Disaster Protection Act of 1973, and the National Flood Insurance Reform Act of 1994. FISs develop flood risk data that are used to establish actuarial flood insurance rates. The information in this FIS Report will also be used by Wake County and the jurisdictions therein (hereinafter referred to collectively as Wake County) to facilitate the adoption and maintenance of floodplain management ordinances, which form the basis of communities' continued participation in the NFIP. Minimum requirements for participation in the NFIP are set forth in Title 44, Part 60, Section 3 of the Code of Federal Regulations (44 CFR 60.3). In some States and/or communities, floodplain management criteria or regulations may exist that are more restrictive than the minimum Federal requirements. In such cases, the more restrictive criteria will take precedence, and the State and/or community (or other jurisdictional agency) will be able to explain them.

This FIS investigates the existence and severity of flood hazards in, or revises and updates previous FISs for, the geographic area of Wake County, North Carolina, including the jurisdictions listed in Table 1.

Table 1 - Jurisdictions in Wake County

Community	Included in this FIS	If Not Included, Location of Flood Hazard/Flood Insurance Rate Data
CITY OF DURHAM	No	Durham County FIS, 2022
CITY OF RALEIGH	Yes	
TOWN OF ANGIER	No	Harnett County FIS, 2022
TOWN OF APEX	Yes	
TOWN OF CARY	Yes	
TOWN OF CLAYTON	No	Johnston County FIS, 2022
TOWN OF FUQUAY-VARINA	Yes	
TOWN OF GARNER	Yes	
TOWN OF HOLLY SPRINGS	Yes	
TOWN OF KNIGHTDALE	Yes	
TOWN OF MORRISVILLE	Yes	
TOWN OF ROLESVILLE	Yes	

Table 1 - Jurisdictions in Wake County

Community	Included in this FIS	If Not Included, Location of Flood Hazard/Flood Insurance Rate Data
TOWN OF WAKE FOREST	Yes	
TOWN OF WENDELL	Yes	
TOWN OF ZEBULON	Yes	
WAKE COUNTY	Yes	

1.3 FIS Components

A Flood Insurance Study (FIS) is an analysis of flood hazards, typically presented as a set of Flood Insurance Rate Map (FIRM) panels and the FIS Report, which includes a set of Flood Profiles and/or Water-surface elevation rasters.

Flood Insurance Study Report

The FIS Report provides a context for the information shown on the FIRM, as well as a summary of the data upon which the analyses are based. It also includes an index of sources of additional information on the NFIP.

1.4 Considerations for Using this Flood Insurance Study Report

The NFIP encourages State and local governments to implement sound floodplain management programs. To assist in this endeavor, each FIS Report provides floodplain data, which may include a combination of the following: 10-, 4-, 2-, 1-, and 0.2-percent annual chance flood elevations (the 1% annual chance flood elevation is also referred to as the Base Flood Elevation (BFE)); delineations of the 1% annual chance and 0.2% annual chance floodplains; and 1% annual chance floodway. This information is presented on the FIRM and/or in many components of the FIS Report, including Flood Profiles, Floodway Data tables, Summary of Non-Coastal Stillwater Elevations tables, and Coastal Transect Parameters tables (not all components may be provided for a specific FIS).

It is, therefore, the responsibility of the user to consult with community officials by contacting the community repository to obtain the most current FIS Report components. Communities participating in the NFIP have established repositories of flood hazard data for floodplain management and flood insurance purposes. Community map repository addresses are provided in Table 28, "Map Repositories," within this FIS Report.

New FIS Reports are frequently developed for multiple communities, such as entire counties. A countywide FIS Report incorporates previous FIS Reports for individual communities and the unincorporated area of the county (if not jurisdictional) into a single document and supersedes those documents for the purposes of the NFIP.

The Initial Countywide FIS Report for Wake became Effective on 5/2/2006. Refer to Table 24 for information about subsequent revisions to FIRMs.

Selected FIRM panels for the community may contain information (such as floodways and cross sections) that was previously shown separately on the corresponding Flood Boundary and Floodway Map panels. In addition, former flood hazard zone designations have been changed as follows:

Old Zone	New Zone
A1 through A30	AE
V1 through V30	VE
B	X (shaded)
C	X (unshaded)

FEMA does not impose floodplain management requirements or special insurance ratings based on Limit of Moderate Wave Action (LiMWA) delineations at this time. The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. If the LiMWA is shown on the FIRM, it is being provided by FEMA as information only. For communities that do adopt Zone VE building standards in the area defined by the LiMWA, additional Community Rating System (CRS) credits are available. Refer to Section 2.5.4 for additional information about the LiMWA.

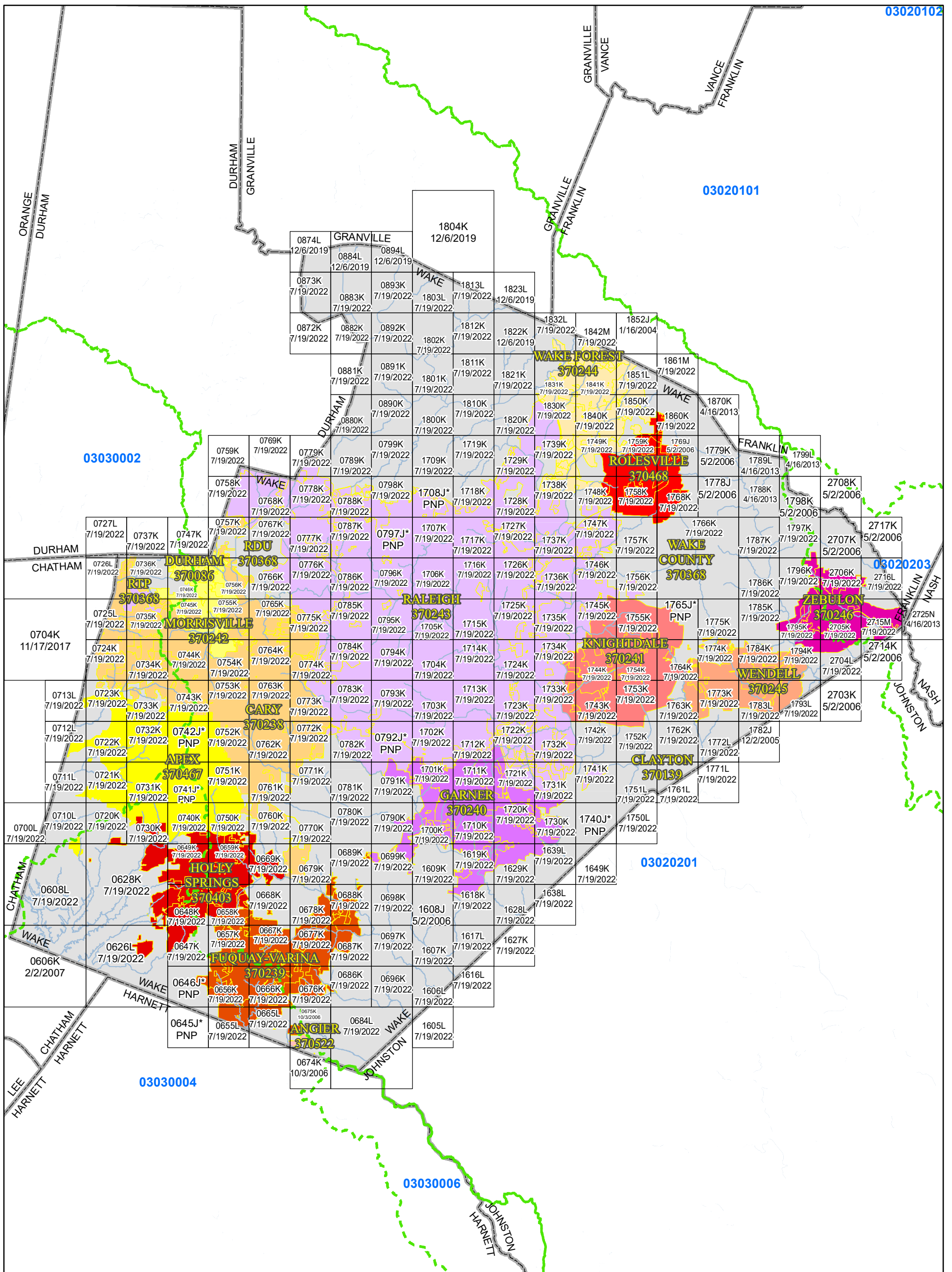
The CRS is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements. Visit the FEMA Web site at <http://www.fema.gov> or contact your appropriate FEMA Regional Office for more information about this program.

Previous FIS Reports and FIRMs may have included levees that were accredited as reducing the risk associated with the 1% annual chance flood based on the information available and the mapping standards of the NFIP at that time. For FEMA to continue to accredit the identified levees, the levees must meet the criteria of the Code of Federal Regulations, Title 44, Section 65.10 (44 CFR 65.10), titled "Mapping of Areas Protected by Levee Systems.

Since the status of levees is subject to change at any time, the user should contact the appropriate agency for the latest information regarding levees presented in Table 7 of this FIS Report. For levees owned or operated by the U.S. Army Corps of Engineers (USACE), information may be obtained from the USACE national levee database. For all other levees, the user is encouraged to contact the appropriate local community.

FEMA has developed a Guide to Flood Maps (FEMA 258) and online tutorials to assist users in accessing the information contained on the FIRM. These include how to read panels and step-by-step instructions to obtain specific information. To obtain this guide and other assistance in using the FIRM, visit the FEMA Web site at <http://www.fema.gov>.

Figure 1- FIRM Panel Index



1 in = 4.4 miles
 0 0.5 1 2 3 Miles

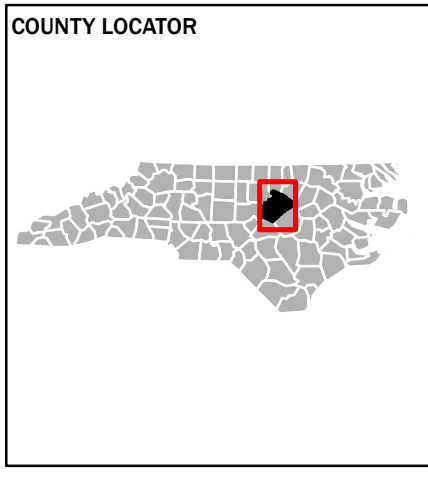
Map Projection:
 North Carolina State Plane Projection Feet (Zone 3200)
 Datum: NAD 1983 (Horizontal), NAVD 1988 (Vertical)

The corporate limits shown on this FIRM Index are based on the best information available at the time of publication. As such, they may be more current than those shown on FIRM panels previously issued under the North Carolina Seamless paneling scheme

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT

[HTTPS://FRIS.NC.GOV/FRIS](https://FRIS.NC.GOV/FRIS)
[HTTPS://MSC.FEMA.GOV](https://MSC.FEMA.GOV)

SEE FLOOD INSURANCE STUDY FOR ADDITIONAL INFORMATION
 *PANEL NOT PRINTED



NATIONAL FLOOD INSURANCE PROGRAM
 FLOOD INSURANCE RATE MAP INDEX

WAKE COUNTY, NORTH CAROLINA And Incorporated Areas

PANELS PRINTED:

0606, 0608, 0626, 0628, 0647, 0648, 0649, 0655, 0656, 0657, 0658, 0659, 0665, 0666, 0667, 0668, 0669, 0674, 0675, 0676, 0677, 0678, 0679, 0684, 0686, 0687, 0688, 0689, 0696, 0697, 0698, 0699, 0700, 0704, 0710, 0711, 0712, 0713, 0720, 0721, 0722, 0723, 0724, 0725, 0726, 0727, 0730, 0731, 0732, 0733, 0734, 0735, 0736, 0737, 0740, 0743, 0744, 0745, 0748, 0749, 0750, 0751, 0752, 0753, 0754, 0755, 0756, 0757, 0758, 0759, 0760, 0761, 0762, 0763, 0764, 0765, 0766, 0767, 0768, 0769, 0770, 0771, 0772, 0773, 0774, 0775, 0776, 0777, 0778, 0779, 0780, 0781, 0782, 0783, 0784, 0785, 0786, 0787, 0788, 0789, 0790, 0791, 0793, 0794, 0795, 0796, 0798, 0799, 0872, 0873, 0874, 0880, 0881, 0882, 0883, 0884, 0890, 0891, 0892, 0893, 0894, 1605, 1606, 1607, 1608, 1609, 1616, 1617, 1618, 1619, 1627, 1628, 1629, 1638, 1639, 1649, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 1752, 1753, 1754, 1755, 1756, 1757, 1758, 1759, 1761, 1762, 1763, 1764, 1766, 1768, 1769, 1771, 1772, 1773, 1774, 1775, 1778, 1779, 1782, 1783, 1784, 1785, 1786, 1787, 1788, 1789, 1793, 1794, 1795, 1796, 1797, 1798, 1799, 1800, 1801, 1802, 1803, 1804, 1810, 1811, 1812, 1813, 1820, 1821, 1822, 1823, 1830, 1831, 1832, 1840, 1841, 1842, 1850, 1851, 1852, 1860, 1861, 1870, 2703, 2704, 2705, 2706, 2707, 2708, 2714, 2715, 2716, 2717, 2725

FEMA
 MAP NUMBER 37183CIND0H
 MAP REVISED July 19, 2022

2.0 Floodplain Management Applications

Flood events of a magnitude expected to occur with a 10%, 2%, 1%, or 0.2% annual chance have been selected as having special significance for developing sound floodplain management programs. These events, commonly termed the 10-, 50-, 100-, and 500-year floods, have a 10%, 2%, 1%, and 0.2% chance, respectively, of being equaled in any given year. Therefore, FIS Reports typically determine water-surface elevations for floods with these probabilities. The FIRM delineates 1% and 0.2% annual chance floodplains and 1% annual chance floodway boundaries, and depicts 1% annual chance flood elevations, rounded to the nearest foot, to assist in developing floodplain management measures.

2.1 Floodplains

To provide a national standard without regional discrimination, the 1% annual chance flood has been adopted by FEMA as the base flood for floodplain management purposes. A 1% annual chance flood, or base flood, is defined as that having a 1% chance of being equaled or exceeded in any given year. The 1% annual chance floodplains shown on the FIRM identify areas that are expected to be inundated by the 1% annual chance flood. This 1% annual chance floodplain is also called a Special Flood Hazard Area (SFHA), where the NFIP's floodplain management regulations must be enforced by the community as a condition of participation in the NFIP. The 0.2% annual chance floodplain is employed to indicate additional areas of flood risk associated with exceptionally severe floods.

2.2 Floodways

Encroachment on floodplains such as that caused by placement of 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, floodways are provided as a tool to assist local communities in this aspect of floodplain management. Under this concept, the 1% annual chance riverine 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% annual chance flood can be carried without substantial increases in flood heights. Figure 2, "Floodway Schematic," illustrates this principle. Minimum Federal standards limit such increases to 1.0 foot, provided that hazardous velocities are not produced. The floodways in this FIS are presented to local agencies as a minimum standard that can be adopted directly or that can be used as a basis for additional encroachment studies.

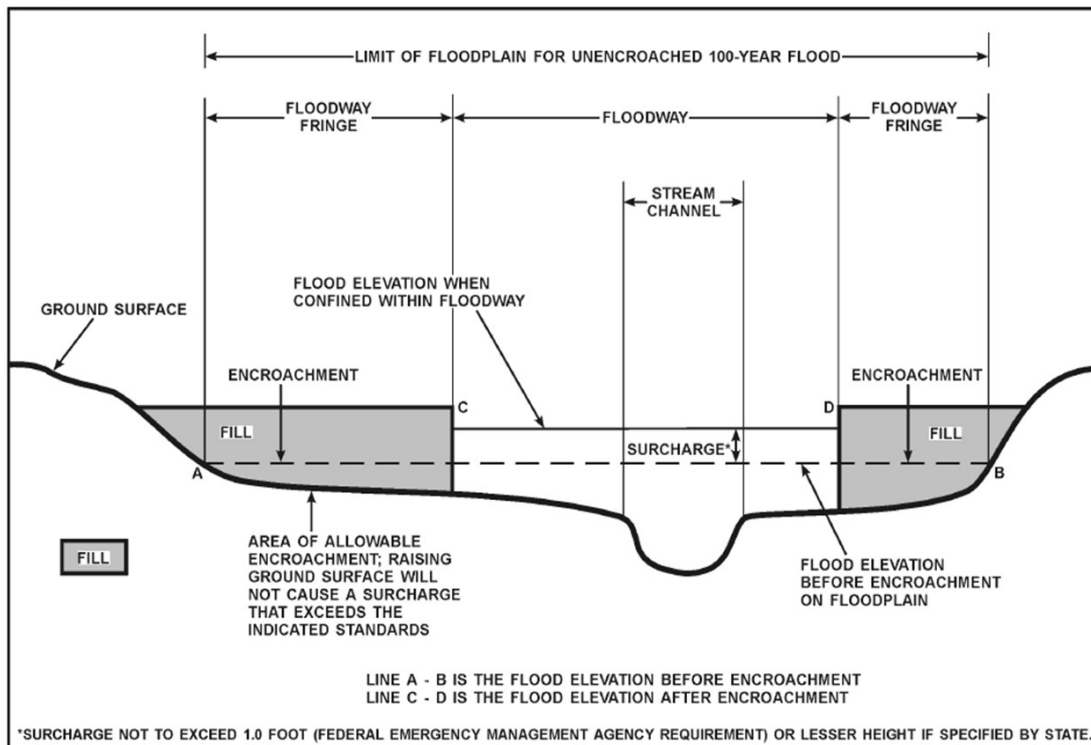


Figure 2- Floodway Schematic

2.3 Base Flood Elevations

The hydraulic characteristics of flooding sources were analyzed to provide estimates of the elevations of floods of the selected recurrence intervals. The Base Flood Elevation (BFE) is the elevation of the 1% annual chance flood. These BFEs are most commonly rounded to the whole foot, as shown on the FIRM, but in certain circumstances or locations they may be rounded to 0.1 foot. Cross section lines shown on the FIRM may also be labeled with the BFE rounded to 0.1 foot. Whole-foot BFEs derived from engineering analyses that apply to coastal areas, areas of ponding, or other static areas with little elevation change may also be shown at selected intervals on the FIRM. Cross sections with BFEs shown on the FIRM correspond to the cross sections shown in the Floodway Data table and if applicable in the Flood Profiles in this FIS Report. BFEs 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.

2.4 Watershed Characteristics

Because a FIS is a probability analysis that may not account for some of the factors listed below, communities are strongly encouraged to consider adopting more restrictive or higher floodplain management criteria or ordinances than the minimum Federal requirements. Communities may also increase the validity of their flood hazard data by investing in continuous maintenance of river gages (see the Data Validity and Reliability paragraph below). If the U.S. Geological Survey (USGS) or other agencies do not maintain gages on the flooding sources of interest, partnerships with the USGS may be pursued, or local gages may be installed. For more information, see Section 9.0 of this report.

This flood hazard study represents an analysis of certain watershed characteristics, some of which are summarized as follows:

Drainage Area

In general, streams that drain larger areas have greater flood hazards. FISs, in North Carolina, do not typically analyze flood hazards in places with rural drainage areas of less than one square mile and within urban drainage areas of less than ½ square mile.

Soil Permeability and Infiltration

Differences in the types of soil and the amount of vegetation in a watershed have a significant effect on the amount of water that the soil can absorb; soils with a high sand content absorb much more water than soils with a high clay content. The presence of vegetation increases infiltration; the presence of pavement decreases infiltration and also speeds runoff to receiving waters. As soil permeability and infiltration decrease, the volume and rate of overland flow increases.

Soil Moisture Conditions

In addition to soil permeability and infiltration, the level of the water table helps determine the saturation point, beyond which no water is absorbed. As rainfall duration increases, the height of the water table increases.

Channel and Floodplain Geometry

The geometric contour of a streambed, termed channel geometry, and the geometric contour of a floodplain determine the volume of water that a channel can hold and partially determine the rate at which water flows through it.

Channel and Floodplain Roughness

The roughness of a surface affects the characteristics of runoff whether the water is on the surface of the watershed or in the channel.

FIS Reports include analyses of how these factors will combine to produce overland flow patterns during floods that have a certain probability of occurring in any given year. Although the recurrence interval represents the long-term average period between floods of a specific magnitude, rare floods could occur at shorter intervals or even within the same year. The risk of experiencing a rare flood increases when longer periods are considered. For example, the risk of having a flood which equals or exceeds the 1% annual chance flood (1% chance of annual exceedance) in any 50-year period is approximately 40% (4 in 10), but for any 90-year period, the risk increases to approximately 60% (6 in 10).

It is important to note that the 1% annual chance flood is used as the national standard to allow a consistent approach to floodplain management, flood hazard assessment, and flood hazard mapping. In any given community, a number of factors may result in flooding characteristics that do not conform to predicted conditions. Therefore, the determination that an area is not shown on the FIRM as being within a Special Flood Hazard Area is no guarantee that it will not flood during a 1% annual chance flood. Examples of these

factors include Data Validity and Reliability; Developmental and Topographic Changes Over Time; Erosion, Deposition, and Debris Flow; and Meandering and Lateral Migration.

Data Validity and Reliability

Certain types of analysis methods yield more justifiable characterizations of flood hazards. For example, a gage analysis, to determine peak discharges, is based on actual measurements of watershed conditions over time and, therefore, is typically considered the most accurate method of hydrologic analysis. However, it is not feasible to install enough gages to gather data on every stream. In addition, for many of the gage sites that do exist, there are interruptions in the period of record. The usefulness of gage data for the purpose of predicting flooding behavior decreases with interruptions in the period of record; predicted flooding conditions over a 100-year period based on 20 years of measurements spread over a 35-year period are less valid than those based on 30 years of continuous measurements. A regression analysis is typically considered the best method in the absence of gage data, as it uses gage data from watersheds with similar characteristics to estimate flood frequency and magnitude in an ungaged watershed. Regression equations reflect average conditions for a region; therefore, the results will not exactly match the results of a gage analysis at a particular location. The standard errors of the North Carolina rural regression equations range from 44 to 51 percent for estimates of the 1% annual chance flood. That means the difference between the results of the regression equation and the gage analysis for approximately two-thirds of the locations that gage data exists are within 44 to 51 percent of the gage analysis results. A rainfall-runoff hydrologic analysis may be used for gaged or ungaged watersheds, and can estimate the effects of storage areas and flood control structures and measures. This method is most valid when calibrated against historical data.

Developmental and Topographic Changes Over Time

A FIRM is based on the best topographic and planimetric information available to FEMA and the State of North Carolina at the time the study is produced. In time, however, development and/or natural phenomena can alter the physical characteristics of a watershed and its drainage channels, resulting in changes in the flood hazards in those areas. For example, constructing a housing subdivision reduces the amount of soil that is available to absorb water; this in turn causes an increase in the volume of surface water that flows into the channel.

Erosion, Deposition, and Debris Flow

The flood hazards shown on a FIRM are based on the assumption of unobstructed flow. The FIRM does not reflect an analysis of areas that are subject to erosion caused by the increased water-surface elevations and velocities that occur during flooding. In addition to the risks of landslides or a weakening of the ground underneath roads or structures, any sediment that is removed from one location will be deposited in another; accumulated deposits may have a pronounced effect on flood hazards in those areas. Similarly, debris such as fallen trees or branches, litter, or other items may obstruct stream channels or hydraulic structures, increasing water-surface elevations, velocities, and floodplain width.

Meandering and Lateral Migration

FISs are based on the assumption that channel geometry will remain stable during normal drainage and during flood events. This assumption is valid for most streams, which flow over bedrock or between bedrock outcroppings that form non-alluvial channels. However, alluvial streams change the channel geometry with time, significantly so during flood events. Alluvial streams are subject to erosion and deposition, which may result in braided or meandering channels. Streams of this type may be characterized by lateral migration, or channel shifting, in which the stream may change course entirely during a flood. Whenever clear evidence is available, a FIRM will identify the alluvial nature of a studied flooding source and designate wider floodways to allow for potential migration. However, these floodways are based on qualitative assessments and not on quantitative geomorphic and engineering analyses.

2.5 Coastal Flood Hazard Areas

This section is not applicable to this FIS project.

Figure 3, "Wave Runup Transect Schematic" is not applicable to Wake County.

Figure 4, "Coastal Transect Schematic" is not applicable to Wake County.

3.0 Insurance Applications

3.1 National Flood Insurance Program Insurance Zones

For flood insurance applications, the FIRM designates flood insurance rate zones and, in 1% annual chance floodplains that were studied by detailed methods, shows selected whole-foot BFEs or average depths. Insurance agents use the zones and BFEs in conjunction with information on structures and their contents to assign premium rates for flood insurance policies. Table 2, "Flood Zone Designations," includes a description of each type of flood hazard zone.

Table 2 - Flood Designations

Zone	Description
A	Zone A is the flood insurance rate zone that corresponds to the 1% annual chance floodplains that are determined in the FIS Report by approximate methods. Because detailed hydraulic analyses are not performed for such areas, no Base Flood Elevations or depths are shown within this zone.
AE	Zone AE is the flood insurance rate zone that corresponds to the 1% annual chance floodplains that are determined in the FIS Report by detailed methods. In most instances, whole-foot Base Flood Elevations derived from the detailed hydraulic analyses are shown at selected intervals within this zone.
AH	Zone AH is the flood insurance rate zone that corresponds to the areas of 1% annual chance 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.
AO	Zone AO is the flood insurance rate zone that corresponds to the areas of 1% annual chance 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.
AR	Zone AR is the flood insurance rate zone that corresponds to areas that were formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
A99	Zone A99 is the flood insurance rate zone that corresponds to areas of the 1% annual chance 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.
V	Zone V is the flood insurance rate zone that corresponds to the 1% annual chance coastal floodplains that have additional hazards associated with storm waves. Because approximate hydraulic analyses are performed for such areas, no Base Flood Elevations are shown within this zone.
VE	Zone VE is the flood insurance rate zone that corresponds to the 1% annual chance coastal floodplains that have additional hazards associated with storm waves. Whole-foot Base Flood Elevations derived from the detailed hydraulic analyses are shown at selected intervals within this zone.
X	Zone X is the flood insurance rate zone that corresponds to areas outside the 0.2% annual chance floodplain, areas within the 0.2% annual chance floodplain, and to areas of 1% annual chance flooding where average depths are less than 1 foot, areas of 1% annual chance flooding where the contributing drainage area is less than 1 square mile, and areas protected from the 1% annual chance flood by levees. No Base Flood Elevations or depths are shown within this zone.
X (Future)	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.
D	Zone D is the flood insurance rate zone that corresponds to unstudied areas where flood hazards are undetermined, but possible.

4.0 Area Studied

Wake County is found in the Piedmont region of North Carolina. It is surrounded by Granville and Franklin Counties to the north, Nash and Johnston Counties to the east, Harnett County to the south, Durham and Chatham Counties to the west.

4.1 Basin Description

Table 3, "Basin Description" contains a description of the characteristics of the HUC-8 sub-basins within which each community falls. The table includes the main flooding sources within each basin, a brief description of the basin, and its area.

Table 3 - Basin Description

HUC-8 Sub-Basin Name	HUC-8 Sub-Basin Number	Primary Flooding Source	Description	HUC Area (square miles)
Black	03030006	Black River	The Black River Basin begins in the northeastern region of Harnett County, North Carolina. The basin then drains southeast through southern edge of Wake County and significant portions of Bladen, Cumberland, and Sampson Counties, ending at the Cape Fear River in Pender County.	1,574
Contentnea	03020203	Contentnea Creek	The Contentnea Creek Basin begins in southern Franklin County and drains southeast through the eastern corner of Wake County and significant portions of Greene, Nash, Pitt, Wayne, and Wilson Counties. The basin ends at the confluence with Neuse River in Craven County.	1,008
Haw	03030002	Haw River	The Haw River Basin begins in eastern Forsyth County, flowing across low, rolling hills. The basin drains large portions of Guilford, Alamance Counties, western Wake County and Chatham County before entering B. Everett Jordan Lake at the headwaters of the Cape Fear River.	1,707
Upper Cape Fear	03030004	Cape Fear River	The Upper Cape Fear Basin begins just downstream of B. Everett Jordan Lake in Chatham and southwestern Wake Counties flowing through low, rolling hills until exiting in Cumberland County.	1,630
Upper Neuse	03020201	Neuse River	The Upper Neuse Basin is initially drained by the Eno and Flat Rivers in Orange County. Once they confluence near Falls Lake, the basin is then drained by the Neuse River which flows through Durham, Wake, and Johnston Counties.	2,406

4.2 Principal Flood Problems

Table 4, "Principal Flood Problems" contains a list of principal flooding problems in Wake County.

Table 4 - Principal Flood Problems

Flooding Source	Problem
All Sources	Flooding problems in the unincorporated areas of Wake County have been mostly attributed to the inefficient removal of runoff from highly developed areas. The extent to which development in this area has affected flooding problems can be seen by comparing a flood in May 1957 with one in February 1973. The 1957 flood resulted from approximately 5.7 inches of rain and was considered to have an average frequency of once in 7 years. The 1973 flood reached higher levels in the floodplain but resulted from only 3.5 inches of rain, or a storm predicted to occur once in every 2 to 5 years. This increase in flood potential, caused partially by the intense development which has taken place in the area, has resulted in reduced crop yields and lowered land values and caused more frequent property damage.

4.3 Historic Flood Elevations

Hurricane Floyd (9/16/1999)

Hurricane Floyd made landfall near Wilmington with category two winds of 105 to 110 mph. Rainfall totals from Floyd were as high as 15 to 20 inches over portions of eastern North Carolina; with a record of 23.45 inches of rain falling in the month of September at Wilmington, NC. This breaks the previous record of 21.12 inches set in July 1886. These rains combined with saturated ground from previous rain events, including Hurricane Dennis, to produce an inland flood disaster. There were 74 deaths in the United States, including 52 in North Carolina, due to drowning from flood waters. This makes Floyd the deadliest U.S. hurricane since Agnes in 1972. Data from the USGS indicate that eleven of their stream gage monitoring sites in North Carolina (Ahoskie, Rocky Mount, Hilliardston, White Oak, Enfield, Tarboro, Lucama, Hookerton, Trenton, Chinquapin, and Freeland) exceeded 0.2% annual chance flood levels due to Floyd. Total losses in North Carolina approach \$5 billion with an estimated \$3.5 billion in damages to North Carolina homes, businesses, roads, and infrastructure. Floyd passed relatively close to the entire U.S. east coast, justifying hurricane warnings from Florida to Massachusetts and requiring an estimated two million people to evacuate. The last hurricane to require warnings for as large a stretch of coastline was Hurricane Donna in 1960.

Hurricane Bonnie (8/26/1998)

The landfall location of Bonnie was in southern North Carolina near Cape Fear very close to landfall of both Hurricanes Bertha and Fran

in 1996. Even though a powerful storm, damage from Bonnie was much less than Fran, which was also Category 3. Winds gusted up to 100 knots and storm tides of 5 to 8 feet above normal were reported mainly in eastern beaches of Brunswick County, while a storm surge of 6 feet was reported at Pasquotank and Camden Counties in the Albemarle Sound.

Hurricane Fran

(9/5/1996)

The landfall location of Fran near the city of Wilmington and its progression into the Raleigh-Durham area caused an estimated \$1.275 billion in damage in North Carolina alone. Fran hit with gusts up to 105 mph and a storm surge of approximately 16 feet. Over \$1 billion in damage was reported in North Topsail Beach and Surf City and 23 people were killed.

Hurricane Bertha

(7/12/1996)

1996 was a damaging year in the hurricane history of North Carolina. Tropical Storm Arthur, Hurricane Bertha, and Hurricane Fran all made direct landfall on the North Carolina coastline. It was the most active tropical cyclone season in the state since 1955, when Hurricanes Connie, Diane, and Ione all hit the coast. Bertha entered North Carolina in North Topsail Beach with 105 mph gust and a storm surge of approximately 5 feet.

Hurricane Gloria

(9/26/1985)

The landfall location of Gloria was Cape Hatteras, with 90 knot winds and a storm surge of approximately 6-8 feet.

Hurricane Diana

(9/13/1984)

The landfall location of Diana was 38 miles south of Wilmington with 90 mph winds at its closest approach to Wilmington. Diana had 115 mph sustained winds before landfall. Storm surge was approximately 5-6 feet.

Table 5, “Historic Flood Elevations”, lists selected flooding sources in Wake County with records of past stages. The table shows the flood elevation. The approximate recurrence interval for a flood is often estimated based on an analysis of rainfall amounts from a storm and /or stream gage data.

Table 5 - Historic Flood Elevations

Flooding Source/Tropical Storm	Location Description	Approx. Stream Station	Historic Peak (Feet NAVD 88)	Date	Approximate Recurrence Interval (in years)
Basin 28, Stream 8 / Hurricane Fran	At upstream face of Green Level West Road	1320	265.0	9/1/1996	50
Beaver Creek / Heavy Rain	At upstream face of Castleburg Drive	48370	355.0	Not Available	10
Beaver Creek / Hurricane Floyd	At upstream face of Kelly Road	30400	279.6	9/1/1999	10
Big Branch (Basin 30, Stream 2) / Hurricane Fran	Just downstream of Purdue St	13350	273.1	9/1/1996	500
Little Beaver Creek / Hurricane Floyd	At upstream face of New Hill Olive Chapel Road	16910	258.0	9/1/1999	10
Little River / Hurricane Floyd	Just upstream of Zebulon Road	416200	307.0	9/1/1996	100
Little River / Hurricane Floyd	4811 NC 231, Zebulon	334089	202.8	9/1/1999	100
Little River / Hurricane Floyd	Approximately 0.3 mile downstream of Wheeler Creek	366000	229.5	9/1/1999	100
Little River / Hurricane Floyd	Upstream of Highway 98	457531	342.4	9/1/1999	100
Little River / Hurricane Fran	Just upstream of State Highway 97	372000	236.1	9/1/1996	100
Marks Creek / Unknown Storm	500 Windless Trail, Clayton	11685	167.6	9/1/1996	100
Marsh Creek (Basin 18, Stream 17) / Hurricane Fran	Approximately 350 feet upstream of Timberlake Road	4800	199.4	9/1/1996	100
Marsh Creek (Basin 18, Stream 17) / Hurricane Fran	Just upstream of Quail Ridge Road	26290	289.8	9/1/1996	100
Mill Creek (South) / Hurricane Floyd	1534 Olivens Grove Road, Four Oak	12558	151.5	9/1/1999	100
Moccasin Creek / Hurricane Floyd	Downstream of Pearces Road	111461	262.2	9/1/1999	100
Morris Branch / Hurricane Fran	At upstream face of Howard Road	16330	327.4	9/1/1996	50
Neuse River / Hurricane Floyd	Upstream face of Weyerhaeuser Road	57075	10.6	9/1/1999	100
Neuse River / Hurricane Floyd	Downstream face of West Craven Middle School Road	65300	11.7	9/1/1999	100
Neuse River / Hurricane Floyd	400 feet southwest of intersection of River Road and Cowpens Landing Road	76975	14.6	9/1/1999	100
Neuse River / Hurricane Floyd	Approximately 1.0 mile upstream of intersection of River Road and State Camp Road	94750	17.7	9/1/1999	100
Neuse River / Hurricane Floyd	Backwater up Core Creek (approximately 2.9 miles downstream of NC 55)	127000	18.7	9/1/1999	100

Table 5 - Historic Flood Elevations

Flooding Source/Tropical Storm	Location Description	Approx. Stream Station	Historic Peak (Feet NAVD 88)	Date	Approximate Recurrence Interval (in years)
Neuse River / Hurricane Floyd	Backwater up Village Creek (downstream face of Biddle Road)	135000	22.2	9/1/1999	100
Neuse River / Hurricane Floyd	Approximately 0.25 mile downstream of confluence of Contentnea Creek	149375	23.8	9/1/1999	100
Neuse River / Hurricane Floyd	Approximately 0.70 mile southeast of intersection of Saw Mill and Tick Bite Road	180773	27.1	9/1/1999	500
Neuse River / Hurricane Floyd	Approximately 400 feet southwest of intersection of East New Bern Road and Trenton Highway	253195	35.8	9/1/1999	100
Neuse River / Hurricane Floyd	Downstream face of State Highway 11	265071	37.4	9/1/1999	100
Neuse River / Hurricane Floyd	Upstream face of U.S. Highway 70/Queen St.	258355	37.6	9/1/1999	100
Neuse River / Hurricane Floyd	Upstream face of New Bern Road	278765	39.3	9/1/1999	100
Neuse River / Hurricane Floyd	State Highway 11	286920	39.4	9/1/1999	100
Neuse River / Hurricane Floyd	Upstream face of Hardy Bridge Road	360288	50.2	9/1/1999	100
Neuse River / Hurricane Floyd	Downstream face of Main Street	591830	54.9	9/1/1999	50
Neuse River / Hurricane Floyd	Downstream face of NC 111	636585	61.7	9/1/1999	50
Neuse River / Hurricane Floyd	Upstream face of SR 1915	694195	71.1	9/1/1999	50
Neuse River / Hurricane Floyd	160 feet Southeast of Bryan Boulevard	710650	72.8	9/1/1999	50
Perry Creek (Basin 15, Stream 26) / Hurricane Fran	At face of Beaverdam Drive	3970	193.6	9/1/1996	100
Richland Creek / Hurricane Floyd	Approximately 900 feet downstream of West Stadium Drive	24330	260.2	9/1/1999	100
Swift Creek / Hurricane Floyd	Near Swift Creek Lane	193500	245.3	9/1/1996	100
Swift Creek / Hurricane Fran	Near Swift Creek Lane	193300	247.4	9/1/1996	100
Swift Creek / Hurricane Fran	Golf Course Green approximately 700 feet upstream of confluence from Lens Branch (Basin 20, Stream 22)	241000	309.8	9/1/1996	100
Swift Creek / Hurricane Fran	Golf course maintenance shed	238300	311.2	9/1/1996	100
Walnut Creek (Basin 30, Stream 1) / Hurricane Floyd	Approximately 700 feet upstream of confluence with Neuse River	900	172.2	9/1/1999	100
Walnut Creek (Basin 30, Stream 1) / Hurricane Fran	Approximately 700 feet upstream of confluence with Neuse River	900	175.3	9/1/1996	100
Walnut Creek (Basin 30, Stream 1) / Hurricane Fran	Approximately 350 feet downstream of Rose Lane	29000	207.9	9/1/1996	100

4.4 Flood Protection Measures

Flood protection measures may be structural (such as levees, dams, and reservoirs) or non-structural (such as land-use management ordinances, policies, or practices).

Table 6, “Non-Levee Flood Protection Measures” is not applicable in Wake County.

Table 7, “Levees” is not applicable in Wake County.

4.5 Scope of Study

For this map maintenance revision, a scoping meeting was held in Wake County to present the results of initial research to the county and communities within the county and to discuss their floodplain mapping needs. The county and communities were asked to provide input on proposed study priorities and analysis methods. These meetings resulted in the identification of flooding sources having a floodplain mapping need. Map Maintenance Plans were developed based on the results of the scoping meetings and were both mailed to each jurisdiction within Wake County and posted to the State’s website at www.ncfloodmaps.com.

Draft basin plans were developed based on the results of the initial scoping meetings. Final scoping meetings were held by the State and FEMA to provide counties and communities an overview of the draft basin plans, including the proposed scope and schedule for the project, and to provide an opportunity for additional county and community input. After the final scoping meeting was held, the Final Basin Plans were produced.

This FIS covers the geographic area of Wake County, North Carolina, and all jurisdictions therein. The areas studied by detailed methods were selected with priority given to all known flood hazard areas and areas of projected development and proposed construction. Limits of detailed study are indicated on the Flood Profiles and/or Water-surface elevation rasters and/or the FIRM.

Table 8, "Flooding Sources Studied by Detailed Methods", lists all flooding sources within the county that were studied by detailed methods for this FIS and previous FISs.

Table 8 - Flooding Sources Studied by Detailed Methods: Revised or Newly Studied

Source	Riverine Sources		Affected Communities
	From	To	
Adams Branch (Basin 30, Stream 9)	At the confluence of Big Branch Tributary No. 1(Basin 30, Stream 6)	At Corwin Road	Town Of Garner
Angier Creek (Basin 24, Stream 4)	At Railroad	Approximately 0.4 mile upstream of Railroad	Town Of Fuquay-Varina
Armory Tributary (Basin 18, Stream 38)	At the confluence with Richland Creek (Basin 18, Stream 3)	Approximately 0.5 mile upstream of the confluence with Richland Creek (Basin 18, Stream 3)	City Of Raleigh
Austin Creek (Basin 6, Stream 10)	At the confluence with Smith Creek (Basin 6, Stream 1)	Approximately 1,275 feet upstream of Mill Dam Road	Rdu Town Of Wake Forest Wake County
Bachelor Branch (Basin 28, Stream 6)	At the confluence with White Oak Creek	Approximately 530 feet upstream of NC Highway 55	Rdu Town Of Cary Wake County
Bagwell Branch (Basin 20, Stream 10)	At the confluence with Swift Creek(Basin 20, Stream 1)	At NC Route 50	Rdu Town Of Garner Wake County
Basal Creek	The confluence with Richland Creek (Basin 5, Stream 1)	Approximately 215 feet upstream of St. Catherines Drive	Town Of Wake Forest
Basin 10, Stream 10	At Zebulon Road/NC Highway 96	Approximately 0.1 mile upstream of Zebulon Road/NC Highway 96	Rdu Wake County
Basin 10, Stream 2	At the confluence with Little River (Basin 10, Stream 1)	Approximately 1.1 miles upstream of the confluence with Little River (Basin 10, Stream 1)	Rdu Wake County
Basin 10, Stream 5	At the confluence with Little River (Basin 10, Stream 1)	At Lizard Lick Road	Rdu Wake County
Basin 10, Stream 6	At the confluence with Little River (Basin 10, Stream 1)	At Lizard Lick Road	Rdu Wake County
Basin 10, Stream 9	At the confluence with Little River (Basin 10, Stream 1)	At Zebulon Road	Rdu Wake County
Basin 12, Stream 3	At the confluence with Beaverdam Creek (Basin 12, Stream 1)	At Old Crews Road	Rdu Town Of Knightdale Wake County
Basin 15, Stream 22	At the confluence with Neuse River (Basin 15, Stream 1)	Approximately 0.2 mile upstream of Forestville Road	City Of Raleigh
Basin 15, Stream 25	At the confluence with Neuse River (Basin 15, Stream 1)	Approximately 730 feet upstream of Mitchell Mill Road	City Of Raleigh
Basin 15, Stream 28	At the confluence with Perry Creek (Basin 15, Stream 26)	Approximately 1 mile upstream of the confluence with Perry Creek (Basin 15, Stream 26)	City Of Raleigh
Basin 15, Stream 32	Just upstream of Raven Ridge Road	Approximately 0.2 mile upstream of Raven Ridge Road	Rdu Wake County
Basin 15, Stream 33	At the confluence with Honeycutt Creek (Basin 15, Stream 31)	Approximately 0.3 mile upstream of Honeycutt Road	Rdu Wake County
Basin 15, Stream 7	At the confluence with Neuse River (Basin 15, Stream 7)	At Clifton Road	Rdu Wake County
Basin 15, Stream 8	At Grasshopper Road	Approximately 0.2 mile upstream of Grasshopper Road	Rdu Wake County
Basin 15, Stream 9	At the confluence with Neuse River (Basin 15, Stream 1)	At Battle Bridge Road	Rdu Wake County
Basin 16, Stream 2	At the confluence with Falls Lake	At State Route 50	Rdu Wake County
Basin 16, Stream 5	Approximately 0.2 mile upstream of NC-50	Approximately 0.4 mile upstream of NC-50	Rdu Wake County
Basin 17, Stream 4	At the confluence with Lower Barton Creek (Basin 17, Stream 1)	Approximately 900 feet upstream of NC-50	Rdu Wake County
Basin 18, Stream 13	At the confluence with Stirrup Iron Creek (Basin 18, Stream 12)	The Wake/Durham County boundary	Rdu Town Of Morrisville Wake County
Basin 18, Stream 13 Tributary	At the confluence with Basin 18, Stream 13	Approximately 500 feet downstream of Paramount Parkway	Town Of Morrisville
Basin 18, Stream 4	At the confluence with Turkey Creek (Basin 18, Stream 5)	Approximately 1,367 feet upstream of Country Trail	City Of Raleigh
Basin 18, Stream 7	At the confluence with Sycamore Creek (Basin 18, Stream 6)	Approximately 0.6 mile upstream of the confluence with Sycamore Creek (Basin 18, Stream 6)	City Of Raleigh

Table 8 - Flooding Sources Studied by Detailed Methods: Revised or Newly Studied

Source	Riverine Sources		Affected Communities
	From	To	
Basin 18, Stream 8	At the confluence with Sycamore Creek (Basin 18, Stream 6)	Approximately 0.6 mile upstream of West Gate Road	City Of Raleigh
Basin 19, Stream 3	At the confluence with Whiteoak Creek (Basin 19, Stream 1)	At Railroad	Rdu Town Of Garner Wake County
Basin 19, Stream 4	At Railroad	Approximately 0.3 mile upstream of Railroad	Rdu Town Of Garner Wake County
Basin 20, Stream 20	Approximately 0.8 mile upstream of the confluence with Swift Creek (Basin 20, Stream 1)	Approximately 0.9 mile upstream of the confluence with Swift Creek (Basin 20, Stream 1)	Rdu Wake County
Basin 20, Stream 7	At Bryan Road	Approximately 0.3 mile upstream of Bryan Road	Town Of Garner
Basin 20, Stream 8	At Bryan Road	Approximately 0.2 mile upstream of Bryan Road	Town Of Garner
Basin 22, Stream 20	At the confluence with Terrible Creek (Basin 22, Stream 9)	Approximately 1.1 miles upstream of the confluence with Terrible Creek (Basin 22, Stream 9)	Town Of Fuquay-Varina
Basin 22, Stream 6	At the confluence with Middle Creek (Basin 22, Stream 1)	Approximately 0.5 mile upstream of Optimist Farm Road	Rdu Wake County
Basin 27, Stream 4	At the confluence with Beaver Creek (Basin 27, Stream 2)	Approximately 0.4 mile upstream of the confluence with Beaver Creek (Basin 27, Stream 2)	Town Of Apex
Basin 28, Stream 8	The confluence with White Oak Creek (Basin 28, Stream 1)	Approximately 1,800 feet upstream of Hendricks Road	Town Of Apex Town Of Cary
Basin 3, Stream 6	At the confluence with Newlight Creek (Basin 3, Stream 1)	Approximately 1.3 miles upstream of the confluence with Newlight Creek (Basin 3, Stream 1)	Rdu Wake County
Basin 30, Stream 3	At the confluence with Big Branch (Basin 30, Stream 2)	Approximately 1.1 miles upstream of Auburn Church Road	City Of Raleigh Town Of Garner
Basin 4, Stream 13	At the confluence with Lowery Creek (Basin 4, Stream 10)	Approximately 1.1 miles upstream of the confluence with Lowery Creek (Basin 4, Stream 10)	Rdu Wake County
Basin 4, Stream 3	At the confluence with Horse Creek (Basin 4, Stream 1)	At Purnell Road	Rdu Town Of Wake Forest Wake County
Basin 6, Stream 9	At the confluence with Sanford Creek (Basin 6, Stream 7)	At Rodgers Road	Rdu Town Of Rolesville Town Of Wake Forest Wake County
Beaver Creek Tributary (Basin 27, Stream 3)	At the confluence with Beaver Creek (Basin 27, Stream 2)	Approximately 0.3 mile downstream of Holland Road	Rdu Town Of Apex Wake County
Beaverdam Creek	At the confluence with Moccasin Creek (Basin 11, Stream 1)	Approximately 0.7 mile upstream of Pearces Road	Rdu Town Of Zebulon Wake County
Beaverdam Creek (Basin 12, Stream 1)	At the confluence with Neuse River (Basin 15, Stream 1)	Approximately 1200 feet upstream of Lucas Road	City Of Raleigh Rdu Town Of Knightdale Wake County
Beaverdam Creek (Basin 15, Stream 21)	At the confluence with Neuse River (Basin 15, Stream 1)	At Kyle Drive	City Of Raleigh
Beaverdam Creek (Basin 18, Stream 28)	At the confluence with Crabtree Creek (Basin 18, Stream 9)	Approximately 150 feet upstream of Glenwood Avenue	City Of Raleigh
Big Branch (Basin 10, Stream 8)	At the confluence with Little River (Basin 10, Stream 1)	At Highway 96/Zebulon Road	Rdu Wake County
Big Branch (Basin 18, Stream 21)	At the confluence with Crabtree Creek (Basin 18, Stream 9)	Approximately 1,911 feet upstream of East Millbrook Road	City Of Raleigh
Big Branch (Basin 30, Stream 2)	At the confluence with Walnut Creek (Basin 30, Stream 1)	At Auburn Church Road	City Of Raleigh Town Of Garner
Big Branch Tributary No. 3	At the confluence with Big Branch Tributary No. 1 (Basin 30, Stream 6)	Approximately 1.0 mile upstream of Interstate 40	City Of Raleigh Town Of Garner
Big Branch Tributary No.1 (Basin 30, Stream 6)	At the confluence of Adams Branch (Basin 30, Stream 9)	Approximately 0.5 mile upstream of Interstate 40	Town Of Garner
Big Branch Tributary No.1 (Basin 30, Stream 6)	At the confluence with Big Branch (Basin 30, Stream 2)	Approximately 0.5 mile upstream of Interstate 40	City Of Raleigh Town Of Garner
Bradley Creek (Basin 24, Stream 3)	At the confluence with Kenneth Creek (Basin 24, Stream 2)	At South Main Street (U.S. Route 401)	Town Of Fuquay-Varina
Bridges Branch	At the confluence with Crabtree Creek (Basin 18, Stream9)	Approximately 1,740 feet upstream of Barksdale Drive	City Of Raleigh

Table 8 - Flooding Sources Studied by Detailed Methods: Revised or Newly Studied

Source	Riverine Sources		Affected Communities
	From	To	
Brier Creek (Basin 18, Stream 14)	The confluence with Stirrup Iron Creek (Basin 18, Stream 12)	Approximately 0.7 mile upstream of Nelson Road	Rdu Town Of Cary Wake County
Buck Branch (Basin 20, Stream 12)	At the confluence with Reedy Branch (Basin 20, Stream 11)	Approximately 0.7 mile upstream of Vandora Springs Road	Rdu Town Of Garner Wake County
Buckhorn Branch (Basin 3, Stream 9)	At the confluence with Newlight Creek (Basin 3, Stream 1)	Approximately 1.4 miles upstream of the confluence with Newlight Creek (Basin 3, Stream 1)	Rdu Wake County
Buckhorn Creek	Approximately 430 feet downstream of Cass Holt Road	Approximately 0.5 mile upstream of Honeycutt Road	Rdu Wake County
Buffalo Branch (Basin 10, Stream 22)	At the confluence with Little River (Basin 10, Stream 1)	At Morphus Bridge Road	Rdu Town Of Wendell Wake County
Buffalo Creek (Basin 9, Stream 1)	At Robertsons Pond Dam	Approximately 0.8 mile upstream of Fowler Road	Rdu Town Of Rolesville Wake County
Buffalo Creek (Basin 9, Stream 1)	At the Wake/Johnston County boundary	At Robertsons Pond Dam	Rdu Town Of Wendell Wake County
Buffalo Creek West	The confluence with Middle Creek	The Johnston/Wake County boundary	Rdu Wake County
Burdens Creek	The confluence with Northeast Creek	Approximately 640 feet upstream of East Cornwallis Road	City Of Durham Rdu Wake County
Cary Branch	Approximately 1.0 mile downstream of Rex Road	Approximately 3.2 miles upstream of Rex Road	Rdu Town Of Holly Springs Wake County
Cedar Creek (Basin 15, Stream 34)	At the confluence with Falls Lake	Approximately 0.4 mile upstream of Coachmans Way	Rdu Wake County
Coles Branch (Basin 18, Stream 24)	Approximately 0.5 mile downstream of Maynard Road	Approximately 1,800 feet upstream of Maynard Road	Town Of Cary
Coles Branch (Basin 18, Stream 24)	At the confluence with Crabtree Creek (Basin 18, Stream 9)	Approximately 0.8 mile downstream of NW Maynard Road	Town Of Cary Town Of Morrisville
Crabtree Creek (Basin 18, Stream 9)	At Bond Lake	Approximately 1.1 miles downstream of I-40	Rdu Town Of Cary Town Of Morrisville Wake County
Crabtree Creek (Basin 18, Stream 9)	At the confluence with Neuse River (Basin 15, Stream 1)	Approximately 1.0 mile upstream of Southwest Cary Parkway	City Of Raleigh Rdu Wake County
Dunn Creek (Basin 6, Stream 5)	At the confluence with Smith Creek (Basin 6, Stream 1)	Approximately 1.0 mile upstream of Oak Grove Church Road	Rdu Town Of Wake Forest Wake County
Dutchmans Branch (Basin 20, Stream 17)	Approximately 200 feet upstream of Blaney Forks Road	Approximately 0.7 mile upstream of Dutchman Drive	Rdu Town Of Cary Wake County
East Fork Mine Creek (Basin 18, Stream 34)	At the confluence with Mine Creek (Basin 18, Stream 34)	Approximately 0.7 mile upstream of Newton Road	City Of Raleigh
East Fork Mine Creek Tributary (Basin 18, Stream 35)	At the confluence with East Fork Mine Creek (Basin 18, Stream 34)	Approximately 0.5 mile upstream of Woodbend Drive	City Of Raleigh
Echo Creek (Basin 20, Stream 14)	At the confluence with Yates Branch (Basin 20, Stream 13)	At Vesta Drive	Rdu Town Of Garner Wake County
Falls Lake	The entire shoreline	The entire shoreline	Rdu Wake County
Gill Creek (Basin 10, Stream 24)	At the confluence with Little River (Basin 10, Stream 1)	At Mack Todd Road	Town Of Zebulon
Haleys Branch (Basin 18, Stream 10)	At the confluence with Crabtree Creek (Basin 18, Stream 9)	Approximately 0.7 mile upstream of Interstate 40	Rdu Town Of Cary Wake County
Hare Snipe Creek (Basin 18, Stream 1)	At the confluence with Crabtree Creek (Basin 18, Stream 9)	Approximately 100 upstream of Lynn Road	City Of Raleigh

Table 8 - Flooding Sources Studied by Detailed Methods: Revised or Newly Studied

Source	Riverine Sources		Affected Communities
	From	To	
Hatchet Grove Tributary (Basin 18, Stream 25)	At the confluence with Crabtree Creek (Basin 18, Stream 9)	Approximately 0.4 mile upstream of Davis Drive	Town Of Cary Town Of Morrisville
Hillard Creek (Basin 30, Stream 7)	At the confluence with Big Branch Tributary No. 1 (Basin 30, Stream 6)	Approximately 0.8 mile upstream of the confluence with Big Branch Tributary No. 1 (Basin 30, Stream 6)	Town Of Garner
Hodges Creek (Basin 8, Stream 1)	Approximately 1,700 feet upstream of Forestville Road	Approximately 0.8 mile downstream of Old Crews Road	City Of Raleigh Rdu Wake County
Hodges Creek (Basin 8, Stream 1)	At the confluence with Neuse River (Basin 15, Stream 1)	Approximately 1,700 feet upstream of Forestville Road	City Of Raleigh Rdu Wake County
Hominy Branch (Basin 10, Stream 4)	At the confluence with Little River (Basin 10, Stream 1)	At Marshburn Road	Rdu Town Of Wendell Wake County
Hominy Creek (Basin 10, Stream 7)	At the confluence with Little River (Basin 10, Stream 1)	At Lizard Lick Road	Rdu Wake County
Honeycutt Creek (Basin 15, Stream 31)	At the confluence with Falls Lake	At Honeycutt Road	Rdu Wake County
Horse Creek	At the confluence with Falls Lake	Approximately 0.5 mile upstream of Purnell Road	Rdu Town Of Wake Forest Wake County
Kenneth Branch (Basin 24, Stream 6)	At the confluence with Kenneth Creek (Basin 24, Stream 2)	Approximately 390 feet upstream of Phelps West Road	Town Of Fuquay-Varina
Kenneth Creek (Basin 24, Stream 2)	Approximately 0.5 mile upstream of the Wake/Harnett County boundary	At West Academy Street	Town Of Fuquay-Varina
Kit Creek Tributary 1 (Basin 29, Stream 11)	At the confluence with Kit Creek (Basin 29, Stream 7)	Approx. 1,825 feet upstream of Davis Drive	Rdu Wake County
Kit Creek Tributary 1 (Basin 29, Stream 11)	The confluence with Kit Creek (Basin 29, Stream 7)	Approximately 1,825 feet upstream of Davis Drive	City Of Durham Rdu Wake County
Kit Creek Tributary 2 (Basin 29, Stream 8)	At the confluence with Kit Creek (Basin 29, Stream 7)	Approximately 1.0 mile upstream of the confluence with Kit Creek (Basin 29, Stream 7)	Rdu Town Of Cary Wake County
Lake Johnson	At the confluence with Little River (Basin 10, Stream 1)	At Morphus Bridge Road	Town Of Wendell
Lake Johnson Bypass	At the confluence with Buffalo Branch (Basin 10, Stream 22)	Approximately 350 feet upstream of the confluence with Buffalo Branch (Basin 10, Stream 22)	Town Of Wendell
Lakemont Tributary (Basin 18, Stream 22)	At the confluence with Big Branch (Basin 18, Stream 21)	Approx. 200 feet downstream of Pinecroft Drive	City Of Raleigh
Little Beaver Creek (Basin 27, Stream 1)	At the Wake/Chatham County boundary	Approx. 1.2 miles upstream of New Hill Olive Chapel Road	Rdu Wake County
Little Beaver Creek (Basin 27, Stream 1)	The Chatham/Wake County boundary	Approximately 1.2 mile upstream of New Hill Olive Chapel Road	Rdu Wake County
Little Beaverdam Creek (Basin 2, Stream 2)	The Wake/Granville County boundary	Approximately 2.2 miles upstream of the confluence with Beaverdam Lake	Rdu Wake County
Little Brier Creek East (Basin 18, Stream 16)	At Glenwood Avenue	Approximately 1,300 feet upstream of the confluence with Little Brier Creek (Basin 18, Stream 15)	City Of Raleigh Rdu Wake County
Little Creek (Basin 11, Stream 2)	At the Wake/Johnston County boundary	At Cemetery Road	Rdu Town Of Zebulon Wake County
Little River	The Wake/Johnston County Boundary	Approximately 300 feet upstream of confluence of Perry Creek (Basin 10, Stream 19)	Rdu Town Of Wendell Town Of Zebulon Wake County
Lizard Lick Creek (Basin 10, Stream 23)	At the confluence with Little River (Basin 10, Stream 1)	Approximately 0.3 mile upstream of Old Zebulon Road	Town Of Wendell
Lower Barton Creek (Basin 17, Stream 1)	At the confluence with Falls Lake	At Ray Road	City Of Raleigh Rdu Wake County
Lowery Creek (Basin 4, Stream 10)	At the confluence with Falls Lake	At Purrell Road	Rdu Wake County
Lynn Road Tributary (Basin 18, Stream 32)	At the confluence with Mine Creek (Basin 18, Stream 31)	Approximately 0.3 mile upstream of Lead Mine Road	City Of Raleigh
Mahlers Creek (Basin 20, Stream 6)	At the confluence with Swift Creek (Basin 20, Stream 1)	Approximately 2.2 miles upstream of the confluence of Basin 20, Stream 7	Town Of Garner

Table 8 - Flooding Sources Studied by Detailed Methods: Revised or Newly Studied

Source	Riverine Sources		Affected Communities
	From	To	
Mango Creek (Basin 15, Stream 11)	At the confluence with Neuse River (Basin 15, Stream 1)	Approximately 2.4 miles upstream of Hodge Road	Town Of Knightdale
Marks Creek	At the Wake/Johnston County boundary	At Marks Creek Road	Rdu Town Of Knightdale Wake County
Marsh Creek (Basin 18, Stream 17)	At the confluence with Crabtree Creek (Basin 18, Stream 9)	Approximately 0.5 mile upstream of Quail Ridge Road	City Of Raleigh
Medfield Tributary (Basin 18, Stream 39)	At the confluence with Richland Creek (Basin 18, Stream 3)	Approximately 0.5 mile upstream of Old Trinity Road	City Of Raleigh
Mills Branch (Basin 22, Stream 5)	At the confluence with Middle Creek (Basin 22, Stream 1)	Approximately 0.4 mile upstream of U.S. Route 401	Rdu Town Of Fuquay-Varina Wake County
Mine Creek (Basin 18, Stream 31)	At the confluence with Crabtree Creek (Basin 18, Stream 9)	At the confluence of East Fork Mine Creek and West Fork Mine Creek	City Of Raleigh
Mingo Creek (Basin 12, Stream 2)	The confluence with Beaverdam Creek (Basin 12, Stream 1)	The downstream side of North Smithfield Road	Rdu Town Of Knightdale Wake County
Moccasin Creek	Approximately 400 feet downstream of U.S. Highway 264A	Approximately 0.7 mile upstream of Henry Baker Road	Rdu Town Of Zebulon Wake County
Morris Branch	Approximately 400 feet downstream of the Chatham/Wake County boundary	Approximately 500 feet downstream of Highway 55	Town Of Cary
Morrisville Tributary (Basin 18, Stream 26)	At the confluence with Crabtree Creek (Basin 18, Stream 9)	Approximately 0.3 mile upstream of Railroad	Town Of Cary Town Of Morrisville
Mud Branch (Basin 4, Stream 15)	At the confluence with Horse Creek (Basin 4, Stream 1)	Approximately 3.0 miles upstream of the confluence with Horse Creek (Basin 4, Stream 1)	Rdu Wake County
Neil Branch (Basin 24, Stream 8)	At the confluence with Neil Creek (Basin 24, Stream 7)	At East Spring Avenue	Town Of Fuquay-Varina
Neil Creek (Basin 24, Stream 7)	At the confluence with Angier Creek (Basin 24, Stream 4)	At Holland Road	Town Of Fuquay-Varina
Neuse River	At the Wake/Johnston County boundary	At Falls Dam Road	City Of Raleigh Rdu Town Of Knightdale Town Of Wake Forest Wake County
Neuse River	The Johnston/Wayne County boundary	Just downstream of Mial Plantation Road	Rdu Town Of Clayton Wake County
New Light Creek	At the confluence of Basin 3, Stream 8	At the confluence with Neuse River (Basin 15, Stream 1)	Rdu Wake County
Panther Branch (Basin 22, Stream 2)	At the confluence with Middle Creek (Basin 22, Stream 1)	Approximately 0.5 mile upstream of Banks Road	Rdu Wake County
Perry Creek (Basin 15, Stream 26)	At the confluence with the Neuse River (Basin 15, Stream 1)	Approximately 0.9 mile upstream of Rainwater Drive	City Of Raleigh
Perry Creek East Branch (Basin 15, Stream 27)	At the confluence with Perry Creek (Basin 15, Stream 26)	Approximately 0.4 mile upstream of Bivens Drive	City Of Raleigh
Pigeon House Branch (Basin 18, Stream 27)	At the confluence with Crabtree Creek (Basin 18, Stream 9)	At West Peace Street	City Of Raleigh
Poplar Branch (Basin 13, Stream 2)	At the confluence with Poplar Creek (Basin 13, Stream 1)	At Farm Road	Rdu Town Of Knightdale Wake County
Poplar Creek (Basin 13, Stream 1)	At the confluence with Neuse River (Basin 15, Stream 1)	Approximately 600 feet upstream of Fayetteville Street	Rdu Town Of Knightdale Wake County
Powell Creek (Basin 8, Stream 7)	Approximately 1,500 feet upstream of Mitchell Mill Road	Approximately 1.3 miles upstream of Peebles Road	City Of Raleigh Rdu Town Of Rolesville Wake County
Powell Creek (Basin 8, Stream 7)	At the confluence with Hodges Creek (Basin 8, Stream 1)	Approximately 1,500 feet upstream of Mitchell Mill Road	City Of Raleigh Rdu Wake County
Reedy Branch (Basin 27, Stream 5)	The confluence with Beaver Creek (Basin 27, Stream 2)	Approximately 0.4 mile upstream of confluence with Reedy Branch Tributary (Basin 27, Stream 6)	Rdu Town Of Apex Wake County
Reedy Branch Tributary (Basin 27, Stream 6)	The confluence with Reedy Branch (Basin 27, Stream 5)	Approximately 840 feet upstream of Kelly Road	Town Of Apex

Table 8 - Flooding Sources Studied by Detailed Methods: Revised or Newly Studied

Source	Riverine Sources		Affected Communities
	From	To	
Reedy Creek (Basin 20, Stream 11)	At the confluence with Swift Creek (Basin 20, Stream 1)	Approximately 160 feet downstream of Aversboro Road	Rdu Town Of Garner Wake County
Reedy Creek (Basin 6, Stream 8)	At Rodgers Road	Approximately 475 feet upstream of Rodgers Road	Rdu Town Of Wake Forest Wake County
Reedy Creek Tributary (Basin 20, Stream 9)	At Claymore Drive	Approximately 0.2 mile upstream of Claymore Drive	Town Of Garner
Richland Creek	At the confluence with Neuse River (Basin 15, Stream 1)	At the Wake/Franklin County boundary	City Of Raleigh Rdu Town Of Wake Forest Wake County
Richland Creek	The confluence with Neuse River (Basin 15, Stream 1)	The Wake/Franklin County boundary	City Of Raleigh Rdu Town Of Wake Forest Wake County
Richland Creek (Basin 18, Stream 3)	At the confluence with Crabtree Creek (Basin 18, Stream 9)	At the confluence of Medfield Tributary	City Of Raleigh
Richland Creek Tributary	At the confluence with Richland Creek (Basin 5, Stream 1)	Approximately 2007 feet upstream of confluence with Richland Creek	City Of Raleigh Town Of Wake Forest
Richland Creek Tributary	The confluence with Richland Creek (Basin 5, Stream 1)	Approximately 200 feet upstream of Retail Drive	City Of Raleigh Town Of Wake Forest
Rocky Branch (Basin 30, Stream 5)	At the confluence with Walnut Creek (Basin 30, Stream 1)	Approximately 200 feet upstream of Hillsborough Street	City Of Raleigh
Rocky Ford Branch (Basin 24, Stream 5)	At the confluence with Kenneth Creek (Basin 24, Stream 2)	Approximately 1.0 mile upstream of the confluence with Kenneth Creek (Basin 24, Stream 2)	Rdu Town Of Fuquay-Varina Wake County
Sanford Creek (Basin 6, Stream 7)	At the confluence with Smith Creek (Basin 6, Stream 1)	Approximately 300 feet upstream of the confluence of Basin 6, Stream 9	Rdu Town Of Wake Forest Wake County
Smith Creek	At the Wake/Franklin County boundary	At the confluence with Neuse River (Basin 15, Stream 1)	Rdu Town Of Wake Forest Wake County
Southeast Prong Beaverdam Creek (Basin 18, Stream 30)	At the confluences of Southwest Prong Beaverdam Creek (Basin 18, Stream 28) and Beaverdam Creek (Basin 18, Stream 28)	Approximately 215 feet upstream of Wade Avenue	City Of Raleigh
Southwest Prong Beaverdam Creek (Basin 18, Stream 29)	At the confluences of Southeast Prong Beaverdam Creek (Basin 18, Stream 30) and Beaverdam Creek (Basin 18, Stream 28)	Approximately 375 feet upstream of Wade Avenue	City Of Raleigh
Spring Branch (Basin 6, Stream 6)	At the confluence with Dunn Creek (Basin 6, Stream 6)	Approximately 875 feet upstream of Franklin Street	Town Of Wake Forest
Stirrup Iron Creek	At the confluence with Brier Creek (Basin 18, Stream 14)	At the Wake/Durham County boundary	Town Of Cary Town Of Morrisville
Stirrup Iron Creek	Just upstream of Highway I-40	The Wake/Durham County boundary	City Of Durham Rdu Town Of Cary Town Of Morrisville Wake County
Swift Creek	Approximately 0.3 mile upstream of Holly Springs Road	Approximately 700 feet upstream of US 64	Rdu Town Of Cary Wake County
Swift Creek	At Lake Benson Dam	Approximately 1.5 miles upstream of NC-50 (Benson Road)	Rdu Town Of Cary Town Of Garner Wake County
Swift Creek	The confluence with Neuse River	The Johnston/Wake County boundary	Rdu Wake County
Swift Creek Tributary No. 7A (Basin 20, Stream 25)	At the confluence with Swift Creek Tributary No. 7 (Basin 20, Stream 24)	Approx. 0.5 mile upstream of the confluence with Swift Creek Tributary No. 7 (Basin 20, Stream 24)	Town Of Cary
Sycamore Creek (Basin 18, Stream 6)	At the confluence with Crabtree Creek (Basin 18, Stream 9)	Approximately 1.0 mile upstream of Leesville Road	City Of Raleigh Rdu Wake County
Terrible Creek (Basin 22, Stream 19)	At the confluence with Middle Creek (Basin 22, Stream 1)	Approximately 1.0 mile upstream of Sunset Lake Road	Rdu Town Of Fuquay-Varina Wake County

Table 8 - Flooding Sources Studied by Detailed Methods: Revised or Newly Studied

Source	Riverine Sources		Affected Communities
	From	To	
Toms Creek (Basin 7, Stream 1)	At the confluence with Neuse River (Basin 15, Stream 1)	Approximately 0.9 mile upstream of Forestville Road	Rdu Town Of Rolesville Town Of Wake Forest Wake County
Tributary to Big Branch Tributary No. 1 (Basin 30, Stream 8)	At the confluence with Big Branch Tributary No. 1 (Basin 30, Stream 6)	Approximately 0.6 mile upstream of the confluence with Big Branch Tributary No. 1 (Basin 30, Stream 6)	Town Of Garner
Turkey Creek (Basin 18, Stream 5)	Approximately 675 feet upstream of Glenwood Avenue	Approximately 1.3 miles upstream of Ebenezer Church Road	City Of Raleigh
Unnamed Stream	At the confluence with Kit Creek (Basin 29, Stream 7)	Approx. 1,825 feet upstream of Davis Drive	Rdu Wake County
Unnamed Tributary (#1) to Swift Creek	The confluence with Swift Creek	The Johnston/Wake County boundary	Rdu Wake County
Upper Barton Creek (Basin 16, Stream 1)	At the confluence with the Neuse River (Basin 15, Stream 1)	At Victory Church Road	Rdu Wake County
Walnut Creek (Basin 30, Stream 1)	At the confluence with Neuse River (Basin 15, Stream 1)	Approximately 1,580 feet upstream of Maynard Road	City Of Raleigh Town Of Cary
West Fork Mine Creek (Basin 18, Stream 33)	At the confluence with Mine Creek (Basin 18, Stream 31)	Approximately 0.6 mile upstream of the confluence with Mine Creek (Basin 18, Stream 31)	City Of Raleigh
Wheelers Creek (Basin 10, Stream 25)	At the confluence with Little River (Basin 10, Stream 1)	At Worth Hinton Road	Town Of Zebulon
White Oak Creek (Basin 19, Stream 1)	At the Wake/Johnston County boundary	Approximately 0.4 mile upstream of Pergo Parkway	Rdu Town Of Garner Wake County
White Oak Creek (Basin 26, Stream 1)	At the confluence of Utley Creek	Approximately 1.6 miles downstream of U.S. Route 1	Rdu Town Of Holly Springs Wake County
Wildcat Branch (Basin 30, Stream 4)	At the confluence with Walnut Creek (Basin 30, Stream 1)	Approximately 900 feet upstream of Tryon Road	City Of Raleigh
Yates Branch (Basin 20, Stream 13)	Approximately 3.6 miles upstream of Lake Wheeler Road	Approximately 100 feet downstream of Lake Wheeler Road	City Of Raleigh Rdu Town Of Garner Wake County
Yates Branch (Basin 20, Stream 13)	At the confluence with Swift Creek (Basin 20, Stream 1)	Approximately 100 feet downstream of Lake Wheeler Road	Rdu Town Of Garner Wake County

Table 9, "Flooding Sources Studied by Detailed Methods: Redelineated", lists all flooding sources that were studied by detailed methods for the pre- statewide FIS and redelineated for previous FISs. These flooding sources were not part of this revision and their effective analyses remain valid.

Table 9 - Flooding Sources Studied by Detailed Methods: Redelineated

Source	Riverine Sources		Affected Communities
	From	To	
Neuse River	Wayne/Lenoir County boundary	Falls of the Neuse Road	City Of Raleigh Rdu Town Of Clayton Town Of Knightdale Town Of Wake Forest Wake County

Table 10, "Flooding Sources Studied by Limited Detailed", lists all flooding sources within the county that were studied by limited detailed methods for either this FIS or previous FISs.

Table 10 - Flooding Sources Studied by Detailed Methods: Limited Detailed

Source	Riverine Sources		Affected Communities
	From	To	
Bagwell Branch (Basin 20, Stream 10)	At NC Route 50	Approximately 0.1 mile upstream of NC Route 50	Town Of Garner
Basin 10, Stream 13	The confluence with Basin 10, Stream 14	Approximately 1.7 miles upstream of confluence with Basin 10, Stream 14	Rdu Wake County

Table 10 - Flooding Sources Studied by Detailed Methods: Limited Detailed

Source	Riverine Sources		Affected Communities
	From	To	
Basin 10, Stream 14	The confluence with Little River (Basin 10, Stream 1)	Approximately 1.4 miles upstream of the Franklin/Wake county boundary	Rdu Wake County
Basin 10, Stream 5	Lizard Lick Road	Approximately 0.6 mile upstream of Lizard Lick Road	Rdu Wake County
Basin 10, Stream 6	Lizard Lick Rd	Approximately 280 feet upstream of Edgemont Road	Rdu Wake County
Basin 11, Stream 4	The confluence of Moccasin Creek (Basin 11, Stream 1)	Approximately 700 feet upstream of Ferrell Road	Rdu Wake County
Basin 11, Stream 7	The Wake/Johnston County boundary	Approximately 0.4 mile upstream of Wake/Johnston County boundary	Rdu Wake County
Basin 12, Stream 3	Old Crews Road	Approximately 0.4 mile upstream of Horton Road	Town Of Knightdale
Basin 14, Stream 2	The confluence with Marks Creek (Basin 14, Stream 1)	Approximately 0.4 mile upstream of Lake Myra Road	Rdu Wake County
Basin 14, Stream 3	The confluence with Marks Creek (Basin 14, Stream 1) The confluence with Marks Creek (Basin 14, Stream 1)	Approximately 0.7 mile upstream of confluence with Marks Creek (Basin 14, Stream 1)	Rdu Wake County
Basin 18, Stream 13	Sorrell Grove Church Road	Approximately 0.2 mile upstream of Durham/Wake County boundary	City Of Durham Town Of Morrisville
Basin 20, Stream 5	At the confluence with Swift Creek (Basin 20, Stream 1)	Approximately 1.4 miles upstream of the confluence with Swift Creek (Basin 20, Stream 1)	Rdu Wake County
Basin 23, Stream 2	The confluence with Black Creek (Basin 23, Stream 1)	Approximately 1.7 miles upstream of confluence with Black Creek (Basin 23, Stream 1)	Rdu Wake County
Basin 23, Stream 2 Tributary	The confluence with Basin 23, Stream 2	Approximately 200 feet upstream of John Adams Road	Rdu Wake County
Basin 23, Stream 3	At the confluence with Black Creek (Basin 23, Stream 1)	Approximately 0.7 mile upstream of dam along Basin 23, Stream 3	Rdu Town Of Fuquay-Varina Wake County
Basin 23, Stream 4	The confluence with Basin 23, Stream 3	Approximately 1,800 feet upstream of Eddie Howard Road	Rdu Wake County
Basin 23, Stream 5	At the confluence with Black Creek (Basin 23, Stream 1)	Approximately 0.9 mile upstream of the confluence with Black Creek (Basin 23, Stream 1)	Rdu Town Of Fuquay-Varina Wake County
Basin 28, Stream 7	The confluence with Basin 28, Stream 8	Approximately 0.4 mile upstream of confluence with Basin 28, Stream 8	Town Of Cary
Beaver Creek	Entire shoreline within Chatham County (Unincorporated Areas)	Entire shoreline within Chatham County (Unincorporated Areas)	Rdu Wake County
Beaverdam Creek	Approximately 0.7 mile upstream of Pearces Road	Approximately 315 feet upstream of Pippin Road	Town Of Zebulon
Beddingfield Creek	Approximately 0.4 mile upstream of the confluence with Neuse River	Approximately 0.2 mile upstream of Shotwell Road	Rdu Town Of Clayton Wake County
Big Branch	The confluence with Harris Reservoir	Approximately 0.9 mile upstream of Highway 1	Rdu Town Of Apex Wake County
Black Creek	At the Wake/Johnston County boundary	Approximately 1.0 mile upstream of dam along Black Creek (Basin 23, Stream 1)	Rdu Town Of Fuquay-Varina Wake County
Buffalo Creek (Basin 9, Stream 1)	State Highway 42	The Johnston/Wake County boundary	Rdu Wake County
Cedar Fork (Basin 10, Stream 15)	The confluence with Little River (Basin 10, Stream 1)	Approximately 3.4 miles upstream of confluence with Little River (Basin 10, Stream 1)	Rdu Town Of Rolesville Wake County
Clark Branch (Basin 28, Stream 3)	The confluence with White Oak Creek (Basin 28, Stream 1)	Approximately 0.5 mile upstream of Green Level Church Road	Town Of Apex
Coles Branch (Basin 18, Stream 24)	Approximately 800 feet upstream of NW Maynard Road	Approximately 0.3 mile upstream of NW Maynard Road	Town Of Cary
Dutchmans Branch (Basin 20, Stream 17)	Approximately 0.7 mile upstream of Dutchman Drive	Approximately 0.8 mile upstream of Dutchman Drive	Rdu Town Of Cary Wake County
Fowlers Mill Creek (Basin 10, Stream 12)	The confluence with Little River (Basin 10, Stream 1)	Approximately 1.4 miles upstream of Pulleytown Road	Rdu Wake County
Guffy Branch (Basin 21, Stream 4)	The confluence with Little Creek (Basin 21, Stream 1)	Approximately 4.3 miles upstream of confluence with Little Creek (Basin 21, Stream 1)	Rdu Wake County
Harris Reservoir	Entire shoreline within Chatham County	Entire shoreline within Chatham County	Rdu Wake County
Hatchet Grove Tributary (Basin 18, Stream 25)	Approximately 0.4 mile upstream of Davis Drive	Approximately 0.7 mile upstream of Hatchet Grove Tributary Dam	Town Of Cary

Table 10 - Flooding Sources Studied by Detailed Methods: Limited Detailed

Source	Riverine Sources		Affected Communities
	From	To	
Hodges Creek (Basin 8, Stream 1)	Approximately 1,060 feet upstream of Old Crews Road	Approximately 1.4 miles upstream of R.C. Watson Road	City Of Raleigh Rdu Wake County
Hominy Creek (Basin 10, Stream 7)	Lizard Lick Rd	Approximately 1,740 feet upstream of Hodge Road	Rdu Wake County
Horse Creek	Approximately 0.5 mile upstream of Purnell Road	Approximately 225 feet upstream of Nottingham Court	Rdu Wake County
Horse Creek Tributary 1	The confluence with Horse Creek	Approximately 1.0 mile upstream of Holden Road (SR 1147)	Rdu Wake County
Jack Branch (Basin 28, Stream 4)	The confluence with White Oak Creek (Basin 28, Stream 1)	Approximately 1.5 miles upstream of confluence with White Oak Creek (Basin 28, Stream 1)	Rdu Town Of Cary Wake County
Jim Branch	The confluence with Harris Reservoir	Approximately 0.5 mile upstream of confluence with Harris Reservoir	Rdu Wake County
Juniper Branch (Basin 21, Stream 2)	The confluence with Little Creek (Basin 21, Stream 1)	Approximately 0.8 mile upstream of Pagen Road	Rdu Wake County
Kenneth Creek	The confluence with Neills Creek	Approximately 0.4 mile upstream of the Harnett/Wake County Boundary	Rdu Town Of Fuquay-Varina Wake County
Little Beaver Creek Tributary	Entire shoreline within Chatham County (Unincorporated Areas)	Entire shoreline within Chatham County (Unincorporated Areas)	Rdu Wake County
Little Beaverdam Creek (Basin 2, Stream 2)	The confluence with Beaverdam Lake	Approximately 2.2 miles above confluence with Beaverdam Lake	Rdu Wake County
Little Black Creek	The confluence with Black Creek	Approximately 0.6 mile upstream of Walter Myatt Road	Rdu Wake County
Little Branch Tributary (Basin 26, Stream 4)	The confluence with Little Branch (Basin 26, Stream 3)	Approximately 1.1 miles upstream of New Hill Road	Rdu Wake County
Little Brier Creek (Basin 18, Stream 15)	The Wake/Durham County boundary	Approximately 0.8 mile upstream of the Wake/Durham County boundary	City Of Durham City Of Raleigh
Little Brier Creek East (Basin 18, Stream 16)	Glenwood Avenue	Approximately 0.2 mile upstream of Leesville Road	City Of Raleigh
Little Creek (Basin 11, Stream 2)	Cemetery Road	Approximately 0.3 mile upstream of U.S. Highway 64	Town Of Zebulon
Little Creek (Into Middle Creek)	The confluence with Middle Creek	Approximately 2.3 miles upstream of the confluence of Juniper Branch	Rdu Wake County
Little River	Approximately 300 feet upstream of confluence of Perry Creek (Basin 10, Stream 19)	Approximately 900 feet upstream of Martindale Drive	Rdu Wake County
Little White Oak Creek (Basin 26, Stream 9)	The confluence with Harris Reservoir	Approximately 0.8 mile upstream of Highway 1	Rdu Wake County
Little White Oak Creek Tributary 2	The confluence with Little White Oak Creek (Basin 26, Stream 9)	Approximately 900 feet upstream of confluence with Little White Oak Creek (Basin 26, Stream 9)	Rdu Wake County
Marks Creek	The confluence with the Neuse River	Approximately 0.8 mile downstream of Knightdale Eagle Rock Road	Rdu Town Of Clayton Town Of Wendell Wake County
Nancy Branch	Approximately 0.4 mile upstream of confluence with Panther Creek	Approximately 0.1 miles upstream of Del Webb Avenue	Town Of Cary
Nancy Branch	At the Durham/Wake County boundary	Approximately 0.3 mile upstream of Green Level to Durham Road	Town Of Cary
Neil Branch (Basin 24, Stream 8)	At East Spring Avenue	Approximately 0.2 mile upstream of East Spring Avenue	Town Of Fuquay-Varina
Neil Creek (Basin 24, Stream 7)	At Holland Road	Approximately 0.2 mile upstream of Holland Road	Town Of Fuquay-Varina
Neills Creek	The confluence with Cape Fear River	Harnett/Wake County boundary	Rdu Town Of Angier Town Of Fuquay-Varina Wake County
New Light Creek	At the confluence of Basin 3, Stream 8	At the confluence with Neuse River (Basin 15, Stream 1)	Rdu Wake County
Perry Creek (Basin 10, Stream 19)	The confluence with Little River (Basin 10, Stream 1)	Approximately 325 feet downstream of Old Pearce Road	Rdu Wake County
Reedy Creek (Basin 20, Stream 11)	Approximately 160 feet downstream of Aversboro Road	Approximately 690 feet upstream of Aversboro Road	Town Of Garner
Richland Creek	The Franklin/Wake County boundary	Approximately 0.3 mile upstream of Holden Road	Town Of Wake Forest
Richland Creek Tributary 2	The confluence with Richland Creek	Approximately 0.4 mile upstream of the confluence with Richland Creek	Town Of Wake Forest
Snipes Creek	The confluence with the Little River	Approximately 0.6 mile upstream of State Highway 96	Rdu Town Of Zebulon Wake County
Stirrup Iron Creek	The Wake/Durham County boundary	Approximately 150 feet downstream of Chin Page Road	City Of Durham

Table 10 - Flooding Sources Studied by Detailed Methods: Limited Detailed

Source	Riverine Sources		Affected Communities
	From	To	
Thomas Creek	The confluence with Harris Reservoir	Approximately 100 feet downstream of Highway 1	Rdu Wake County
Turkey Creek Tributary	Confluence with Turkey Creek (Basin 18, Stream 23)	Approximately 250 feet upstream of Davis Drive	Town Of Cary
Wheeler's Creek (Basin 10, Stream 25)	At the confluence with Little River (Basin 10, Stream 1)	At Worth Hinton Road	Town Of Zebulon

Table 11, "Stream Name Changes" is not applicable in Wake County.

This FIS also incorporates the determinations of letters issued by FEMA resulting in map changes (Letters of Map Revision [LOMRs]), as shown in Table 12, "Letters of Map Revision".

Please note that this Table 12, Letters of Map Revision, only includes LOMCs that have been issued on the FIRM panels updated by this map revision. For all other areas within this county, users should be aware that revisions to the FIS Report made by prior LOMRs may not be reflected herein and users will need to continue to use the previously issued LOMRs to obtain the most current data.

Table 12 - Letters of Map Revision

Case Number	Date Issued	Flooding Source/Description	Communities
17-04-1615P	09/05/2017	NC-17-561 - Green Level Church Road Bridge Replacement at White Oak Creek (B-4697)	Town of Apex Town of Cary
17-04-3427P	10/02/2017	NC-17-571 - Restart of 16-04-1295P - Colby Chase Drive Bridge at Middle Creek (Basin 22, Stream 1)	Town of Apex
17-04-7005P	07/14/2018	NC-17-590 - Timken Forest Drive Extension at Reedy Branch (Basin 27, Stream 5)	Town of Apex
18-04-6277P	07/16/2019	NC-18-638 - Crestmont Greenway Bridges at Clark Branch (Basin 28, Stream 3)	Town of Apex
18-04-7120P	09/14/2019	Charleston Village Greenway Connector	Town of Apex
12-04-3992P	11/07/2013	NC-12-306 – Green Level Road Culvert Replacement at Morris Branch (Basin 29, Stream 5)	Town of Cary
13-04-5161P	05/29/2014	NC-13-370 – Western Wake Parkway (NC-540) at Jack Branch (Basin 28, Stream 4) (R-2635C)	Town of Cary Wake County Unincorporated Areas
13-04-5162P	05/29/2014	NC-13-371 – Western Wake Parkway (NC-540) at Morris Branch (Basin 29, Stream 5) (R-2635C)	Town of Cary
11-04-7980P	12/13/2012	NC-11-287-Northeast Judd Parkway Extension at Terrible Creek (Basin 22, Stream 19)	Town of Fuquay-Varina
16-04-7667P	05/25/2017	NC-16-539 – Outfall K Aerial Sewer Crossing at Little Branch (Basin 26, Stream 3)	Town of Holly Springs
07-04-6027P	05/08/2008	Bowling Green Subdiv Phase 3A	Town of Wake Forest Wake County Unincorporated Areas
09-04-7036P	12/03/2010	NC-09-182 - South Wake Landfill at Little Branch Tributary (Basin 26, Stream 4) and Little Branch (Basin 26, Stream 3)	Wake County Unincorporated Areas

5.0 Engineering Methods

For the flooding sources 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 at least once on the average during any 10-year, 25-year, 50-year, 100-year, or 500-year period (recurrence interval in years) have been selected as having special significance for floodplain management and for flood insurance rates. These events, commonly termed the 10-year, 25-year, 50-year, 100-year, and 500-year floods, have a 10%, 4%, 2%, 1%, and 0.2% annual 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 100-year flood (1-percent chance of annual exceedance) during the term of a 30-year mortgage is approximately 26 percent (about 3 in 10); for any 90-year period, the risk increases to approximately 60 percent (6 in 10). The analyses reported herein reflect flooding potentials based on conditions existing in the community at the time of completion of this study. Maps and flood elevations will be amended periodically to reflect future changes.

5.1 Hydrologic Analyses

Hydrologic analyses were carried out to establish the peak elevation-frequency relationships for floods of the selected recurrence intervals for each flooding source studied. Hydrologic analyses are typically performed at the watershed level. Depending on factors such as watershed size and shape, land use and urbanization, and natural or man-made storage, various models or methodologies may be applied. For details on the county’s hydrologic analyses, the hydrologic report is available by request.

A summary of the drainage area-peak discharge relationships for the flooding sources studied by detailed and limited detailed methods is shown in Table 13, “Summary of Discharges”.

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Adams Branch (Basin 30, Stream 9)						
Hydrologic node located at 35.73, -78.6082	1.22	953	1680	1936	2337	2774
Hydrologic node located at 35.7247, -78.6141	0.73	637	1087	1298	1552	1825
Angier Creek (Basin 24, Stream 4)						
At the confluence with Neil Creek	5.41	1330	2180	2490	3330	3400
At mouth	5.10	530	1600	2300	*	4300
Approximately 1200 feet upstream of the confluence with Kenneth Creek	4.30	1290	2090	2380	3030	3200
Approximately 3200 feet downstream of Angier Road	3.57	1220	1970	2240	2790	2990
At the confluence with Neil Creek	1.02	500	910	1060	1450	1480
Just upstream of Old Baron Drive	0.67	410	750	870	1220	1220
Armory Tributary (Basin 18, Stream 38)						
Hydrologic node located at 35.8103, -78.7264	0.91	337	726	914	*	1445
Hydrologic node located at 35.8088, -78.7232	0.75	261	568	712	*	1135
Hydrologic node located at 35.8092, -78.7178	0.57	211	451	562	*	890
Austin Creek (Basin 6, Stream 10)						
Hydrologic node located at 35.9605, -78.4882	4.04	940	1530	1780	3160	2420
Hydrologic node located at 35.9621, -78.481	3.85	910	1480	1730	3090	2350
Hydrologic node located at 35.9616, -78.4746	2.29	660	1090	1270	2190	1740
Hydrologic node located at 35.9667, -78.4694	2.06	620	1020	1190	2010	1630
Hydrologic node located at 35.9679, -78.4679	1.49	510	840	980	1610	1350

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Austin Creek (Basin 6, Stream 10)						
Hydrologic node located at 35.9612, -78.4748	1.02	420	760	880	1530	1230
Hydrologic node located at 35.9738, -78.4632	1.00	400	660	780	1260	1070
Bachelor Branch (Basin 28, Stream 6)						
At confluence with White Oak Creek	2.80	*	*	2583	2730	*
Hydrologic node located at 35.7768, -78.9023	2.76	1300	2190	2580	2606	3670
Hydrologic node located at 35.7889, -78.8941	1.97	1250	2020	2370	2382	3320
Hydrologic node located at 35.7935, -78.8918	1.16	1040	1580	1840	1844	2510
Hydrologic node located at 35.7935, -78.8822	0.78	884	1350	1550	1550	2090
Bagwell Branch (Basin 20, Stream 10)						
At the confluence with Swift Creek	2.19	960	1560	1740	2040	2260
Approximately 4500 feet downstream of Timber Drive	1.54	870	1400	1560	1780	1990
Just upstream of Timber Drive	1.10	730	1180	1320	1470	1680
Just upstream of Benson Road	0.56	500	820	920	1030	1180
Basal Creek						
At confluence with Richland Creek (Basin 5, Stream 1)	0.21	*	*	149	220	*
Approximately 0.1 mile upstream of confluence with Richland Creek (Basin 5, Stream 1)	0.20	*	*	249	351	*
Approximately 1,060 feet upstream of confluence with Richland Creek (Basin 5, Stream 1)	0.11	*	*	161	227	*
Basal Creek (Basin 22, Stream 16)						
Hydrologic node located at 35.649, -78.7916	10.82	830	1688	2315	3515	4325
Hydrologic node located at 35.6437, -78.7961	9.84	760	1990	2763	4200	5090
Hydrologic node located at 35.6423, -78.8025	8.91	2094	3626	4411	6016	6962
Hydrologic node located at 35.6389, -78.8071	7.84	1621	3162	3938	5483	6260
Hydrologic node located at 35.6334, -78.8071	6.77	1829	3485	4301	5874	6651
Hydrologic node located at 35.6305, -78.8074	6.17	1806	3411	4219	5747	6499
Hydrologic node located at 35.6247, -78.8093	5.23	1754	3269	4022	5470	6153
Hydrologic node located at 35.6206, -78.818	1.74	785	1341	1590	2028	2369
Hydrologic node located at 35.6238, -78.8283	1.41	739	1284	1527	1909	2243
Hydrologic node located at 35.6259, -78.8336	0.88	446	807	983	1151	1434
Hydrologic node located at 35.6269, -78.8338	0.38	164	310	380	499	561
Basin 10, Stream 10						
Hydrologic node located at 35.881, -78.3746	1.14	451	920	1135	1502	1763
At mouth	1.10	*	*	1070	*	*
Basin 10, Stream 13						
At confluence with Basin 10, Stream 14	1.21	*	*	838	*	*
Approximately 0.5 mile upstream of confluence with Basin 10, Stream 14	1.00	*	*	747	*	*
Basin 10, Stream 14						
At confluence with Little River (Basin 10, Stream 1)	4.21	*	*	2674	*	*
Approximately 430 feet upstream of Zebulon Road	2.77	1002	1800	2273	*	3755
At confluence of Basin 10, Stream 13	2.77	*	*	2273	*	*
Approximately 0.92 mile downstream of the Franklin/Wake County Boundary	2.17	*	*	1210	*	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Basin 10, Stream 14						
Approximately 950 feet upstream of Halifax Road	2.17	976	1820	2432	*	3708
Basin 10, Stream 2						
Hydrologic node located at 35.7826, -78.3286	1.13	594	1152	1404	1776	2133
At mouth	1.10	*	*	845	*	*
Just downstream of tributary draining pond near County boundary	0.50	*	*	701	*	*
Basin 10, Stream 3						
Hydrologic node located at 35.7858, -78.3305	1.13	618	1233	1513	1986	2336
At mouth	1.10	*	*	950	*	*
Basin 10, Stream 5						
Hydrologic node located at 35.8281, -78.3538	2.41	758	1441	1855	2251	2958
Hydrologic node located at 35.8272, -78.374	1.63	602	1160	1548	1926	2394
Hydrologic node located at 35.8285, -78.362	1.63	602	1160	1548	1926	2394
At State Route 2329	1.50	*	*	1320	*	*
Approximately 0.5 mile upstream of Lizard Lick Road	1.01	*	*	1289	*	*
Basin 10, Stream 6						
Hydrologic node located at 35.8452, -78.3739	2.77	850	1714	2336	2971	3775
Hydrologic node located at 35.8481, -78.3681	2.77	850	1714	2336	2971	3775
At mouth	2.70	*	*	1420	*	*
Approximately 0.9 mile upstream of Riley Hill Road	1.00	*	*	1594	2117	*
Basin 10, Stream 9						
Hydrologic node located at 35.87, -78.3689	40.29	3416	7277	9356	10539	15579
Basin 11, Stream 4						
At confluence with Moccasin Creek (Basin 11, Stream 1)	3.68	*	*	1680	2500	*
Approximately 0.9 mile upstream of Confluence with Moccasin Creek (Basin 11, Stream 1)	2.79	*	*	1420	2090	*
Approximately 530 feet downstream of Shepard School Road	2.47	*	*	1310	1940	*
Approximately 1,050 feet upstream of Rosinburg Road	2.13	*	*	1190	1760	*
Approximately 0.6 mile upstream of Rosinburg Road	1.74	*	*	1050	1580	*
Approximately 0.4 mile downstream of Pearces Road	1.59	*	*	995	1500	*
Approximately 1,600 feet downstream of Pearces Road	1.28	*	*	870	1300	*
Approximately 530 feet downstream of Pearces Road	0.88	*	*	687	1040	*
Approximately 1,600 feet upstream of Pearces Road	0.65	*	*	571	873	*
Basin 12, Stream 3						
Hydrologic node located at 35.8188, -78.5007	1.45	500	830	970	1640	1330
At Old Crews Road	0.61	*	*	690	870	*
Basin 14, Stream 2						
At confluence with Marks Creek (Basin 14, Stream 1)	2.54	*	*	1340	2010	*
Approximately 0.4 mile upstream of confluence with Marks Creek (Basin 14, Stream 1)	2.45	*	*	1310	1990	*
Approximately 0.4 mile downstream of Lake Myra Road	1.47	*	*	947	1430	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Basin 15, Stream 22						
Hydrologic node located at 35.8335, -78.5303	1.69	784	1421	1707	*	2474
Hydrologic node located at 35.8359, -78.5255	1.47	747	1276	1515	*	2199
Hydrologic node located at 35.8335, -78.5177	0.97	582	1139	1436	*	2237
Hydrologic node located at 35.8346, -78.5148	0.80	490	980	1252	*	1952
Hydrologic node located at 35.8352, -78.5137	0.54	388	738	898	*	1358
Basin 15, Stream 25						
Hydrologic node located at 35.879, -78.528	1.41	659	1257	1512	*	2236
Hydrologic node located at 35.8792, -78.5244	1.31	726	1293	1540	*	2272
Hydrologic node located at 35.8797, -78.5214	1.17	674	1215	1452	*	2166
Hydrologic node located at 35.8802, -78.516	0.96	569	1078	1304	*	1969
Hydrologic node located at 35.8826, -78.5134	0.63	395	758	920	*	1386
Hydrologic node located at 35.8835, -78.5091	0.54	348	672	819	*	1243
Basin 15, Stream 28						
Hydrologic node located at 35.879, -78.5505	4.07	2195	3734	4413	*	6417
Hydrologic node located at 35.8828, -78.5587	2.74	1902	3276	3881	*	5573
Hydrologic node located at 35.8915, -78.5733	1.47	855	1508	1794	*	2585
Hydrologic node located at 35.8918, -78.573	1.27	1356	2319	2721	*	3851
Hydrologic node located at 35.8904, -78.5887	1.02	858	1473	1741	*	2496
Hydrologic node located at 35.8949, -78.5826	1.00	1136	1919	2259	*	3212
Basin 15, Stream 32						
At the confluence of Falls Lake	2.07	930	1510	1690	1730	2200
Upstream of Raven Ridge Road	1.57	840	1360	1520	1530	1960
Basin 15, Stream 33						
At the confluence of Honeycutt Creek	0.97	470	830	950	1020	1290
Approximately 140 feet downstream Enderbury Drive	0.34	260	470	540	550	740
Basin 15, Stream 7						
Hydrologic node located at 35.7307, -78.514	4.82	1761	3515	4323	5828	6480
Hydrologic node located at 35.7373, -78.5051	4.30	1717	3449	4211	5649	6296
Hydrologic node located at 35.7425, -78.504	2.88	1349	2413	2932	3909	4232
Hydrologic node located at 35.7542, -78.5087	2.14	1209	2039	2423	3157	3354
Hydrologic node located at 35.7586, -78.508	1.69	890	1418	1649	2208	2589
Hydrologic node located at 35.7657, -78.5039	0.99	535	1023	1259	1568	1864
Basin 15, Stream 8						
Hydrologic node located at 35.7426, -78.5039	1.17	774	1392	1705	2181	2479
Hydrologic node located at 35.7452, -78.4973	0.91	640	1162	1410	1794	2041
Basin 15, Stream 9						
Hydrologic node located at 35.7304, -78.523	1.25	460	760	890	1450	1220
Hydrologic node located at 35.7201, -78.5259	0.88	370	610	720	1170	1000
Basin 16, Stream 2						
At the confluence with Upper Barton Creek	2.13	720	1240	1420	1640	1930
Approximately 1700 feet upstream of confluence with Upper Barton Creek	1.57	610	1070	1220	1380	1660

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Basin 16, Stream 2						
Upstream of Peed Road	1.05	460	830	950	1120	1310
Basin 16, Stream 5						
At the confluence of Upper Barton Creek	1.64	570	1020	1170	1470	1610
Approximately 1100 feet upstream of Creedmoor Road	1.26	470	850	990	1260	1370
Basin 17, Stream 4						
At the confluence of Lower Barton Creek	2.48	1060	1700	1900	1920	2450
Upstream of Interstate 540	1.48	780	1280	1430	1430	1850
Upstream of Creedmoor Road	0.61	400	700	790	810	1070
Basin 18, Stream 13						
Hydrologic node located at 35.8548, -78.8189	2.35	565	789	888	968	1126
Hydrologic node located at 35.8596, -78.8254	1.28	1041	1520	1750	2002	2292
Hydrologic node located at 35.8672, -78.8354	1.02	1117	1579	1791	2101	2338
Basin 18, Stream 13 Tributary						
Hydrologic node located at 35.8597, -78.826	0.71	610	948	1106	1403	1486
Hydrologic node located at 35.861, -78.8335	0.53	496	765	886	1114	1180
Basin 18, Stream 4						
Hydrologic node located at 35.8622, -78.7252	1.86	1181	1776	2015	*	3222
Hydrologic node located at 35.8697, -78.723	1.64	1107	1572	1906	*	3138
Hydrologic node located at 35.8726, -78.7209	1.34	1018	1520	2064	*	3152
Hydrologic node located at 35.8783, -78.7184	0.92	704	1276	1533	*	2182
Hydrologic node located at 35.8843, -78.722	0.50	495	861	1022	*	1464
Hydrologic node located at 35.8895, -78.7228	0.15	220	362	422	*	595
Basin 18, Stream 7						
Hydrologic node located at 35.8689, -78.7588	1.65	925	1740	2117	*	3428
Hydrologic node located at 35.8726, -78.7574	1.54	915	1701	2071	*	3407
Hydrologic node located at 35.8749, -78.7564	1.04	768	1393	1676	*	2833
Hydrologic node located at 35.8811, -78.7483	0.54	664	1136	1342	*	1921
Basin 18, Stream 8						
Hydrologic node located at 35.8968, -78.7662	2.21	1014	1661	1936	*	2610
Hydrologic node located at 35.898, -78.762	2.09	1001	1657	1954	*	2592
Hydrologic node located at 35.8998, -78.7545	1.73	939	1597	1883	*	2683
Hydrologic node located at 35.9015, -78.748	1.32	721	1133	1300	*	1778
Hydrologic node located at 35.9048, -78.7436	0.77	544	960	1149	*	1666
Hydrologic node located at 35.9079, -78.7375	0.31	314	563	662	*	958
Hydrologic node located at 35.9092, -78.7358	0.29	317	548	651	*	942
Basin 19, Stream 3						
At the confluence with White Oak Creek	2.42	690	1120	1310	2560	1790
At the confluence with Basin 19, Stream 4	0.57	310	570	660	1090	910
Basin 19, Stream 4						
At the confluence with Basin 19, Stream 3	1.06	410	680	800	1470	1110
Just upstream of Interstate 70	0.94	380	630	750	1320	1030

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Basin 20, Stream 20						
Hydrologic node located at 35.714, -78.7364	1.25	524	1173	1444	1593	2260
Hydrologic node located at 35.721, -78.7331	1.14	547	1117	1381	1504	2153
Basin 20, Stream 7						
At the confluence with Mahlers Creek	1.51	510	850	990	1410	1360
At the confluence with Basin 20, Stream 8	0.74	330	550	650	960	900
Basin 20, Stream 8						
At the confluence with Basin 20, Stream 7	0.68	310	530	620	850	860
Basin 22, Stream 20						
Hydrologic node located at 35.6133, -78.7259	2.24	892	1856	2300	3182	3549
Hydrologic node located at 35.6035, -78.7286	1.86	772	1629	2023	2847	3148
Hydrologic node located at 35.6014, -78.7316	1.21	655	1336	1637	2231	2544
Hydrologic node located at 35.6, -78.7338	0.48	213	470	598	829	938
Basin 22, Stream 6						
Hydrologic node located at 35.6408, -78.7384	32.69	2489	4085	4986	6703	8157
Hydrologic node located at 35.6419, -78.7389	1.94	886	1640	2008	2578	3011
Hydrologic node located at 35.6496, -78.7397	1.79	902	1681	2066	2637	3056
Hydrologic node located at 35.6582, -78.7394	0.52	291	531	645	800	937
Basin 22, Stream 9						
Hydrologic node located at 35.6551, -78.7844	1.75	651	1062	1147	1374	1486
Hydrologic node located at 35.6623, -78.7903	1.55	572	903	1009	1233	1432
Hydrologic node located at 35.6689, -78.7973	1.28	475	834	996	1171	1416
Hydrologic node located at 35.6767, -78.8013	1.00	443	752	886	1001	1226
Hydrologic node located at 35.6891, -78.8004	0.53	282	480	573	659	809
Basin 23, Stream 2						
At confluence of Basin 23, Stream 2 Tributary	0.48	*	*	309	*	*
Approximately 1,580 feet upstream of John Adams Road	0.23	*	*	206	*	*
Basin 23, Stream 2 Tributary						
At confluence with Basin 23, Stream 2	1.78	*	*	648	*	*
Basin 23, Stream 3						
Hydrologic node located at 35.5773, -78.7312	0.54	130	260	330	330	550
Hydrologic node located at 35.5815, -78.7393	0.33	90	190	250	250	420
Basin 23, Stream 5						
Hydrologic node located at 35.5694, -78.7466	0.59	140	270	350	350	580
Basin 27, Stream 4						
Hydrologic node located at 35.7316, -78.889	1.73	917	1625	1940	1950	3091
At mouth	1.70	500	1050	1400	*	2700
Basin 28, Stream 7						
At confluence with Basin 28, Stream 8	0.50	*	*	806	989	*
Approximately 0.4 mile upstream of confluence with Basin 28, Stream 8	0.20	*	*	462	573	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Basin 28, Stream 8						
At confluence with White Oak Creek	1.70	576	1330	1630	1740	2560
Approximately 1,060 feet downstream of Mills Road	1.00	481	860	1030	1080	1530
Approximately 1,060 feet upstream of Mills Road	0.70	440	785	932	985	1380
Just downstream of Hendricks Road	0.40	305	526	623	655	899
Basin 3, Stream 6						
At the confluence of New Light Creek	1.32	470	780	920	1220	1260
Approximately 3200 feet upstream of Territory Trail	0.64	300	570	660	840	930
Basin 30, Stream 3						
Hydrologic node located at 35.7261, -78.5675	1.16	799	1380	1634	*	2116
Hydrologic node located at 35.7246, -78.5727	0.99	711	1210	1432	*	1861
Hydrologic node located at 35.7214, -78.5751	0.66	565	939	1088	*	1378
Hydrologic node located at 35.7156, -78.5837	0.16	138	229	253	*	296
Basin 4, Stream 13						
At the confluence of Lowery Creek	1.07	410	690	810	1130	1110
Basin 4, Stream 3						
At the confluence with Horse Creek	1.32	630	1070	1210	1330	1610
Approximately 1900 feet downstream of Purnell Road	0.85	460	800	920	1030	1240
Approximately 200 feet upstream of Purnell Road	0.52	310	560	650	750	890
Basin 6, Stream 9						
Hydrologic node located at 35.9337, -78.4906	1.56	590	1050	1200	1890	1630
Hydrologic node located at 35.9354, -78.481	1.41	580	1010	1160	1770	1570
Beaver Creek						
Approximately 1,060 feet upstream of Chatham/Wake County boundary	17.50	*	*	5810	*	*
Just upstream of New Hill Olive Chapel Road	16.50	*	*	5730	*	*
Approximately 530 feet upstream of New Hill Olive Chapel Road	16.40	*	*	7040	*	*
Approximately 0.4 mile upstream of New Hill Olive Chapel Road	15.40	*	*	6960	*	*
At confluence of Reedy Branch	11.10	2790	4480	5310	6030	8460
Approximately 1,060 feet upstream of Richardson Road	10.00	2760	4410	5290	6130	8510
Approximately 0.4 mile downstream of confluence with Beaver Creek Tributary	9.10	2710	4330	5230	6220	8450
At confluence of Beaver Creek Tributary	6.40	2300	3340	4020	4670	5940
Approximately 1,580 feet downstream of Kelly Road	5.80	2270	3360	3980	4460	5930
At confluence of Basin 27, Stream 4	3.70	1590	2170	2470	2830	4080
Approximately 0.4 mile upstream of Olive Chapel Road	3.10	1550	2120	2410	2910	4070
Approximately 530 feet upstream of Highway 55	1.10	843	1340	1550	1600	2120
Approximately 350 feet downstream of Castleburg Drive	0.50	462	763	893	979	1260
Beaver Creek Tributary (Basin 27, Stream 3)						
At mouth	2.40	620	1295	1755	*	3330
Hydrologic node located at 35.7212, -78.9074	2.36	1077	1409	1756	1864	2765
Hydrologic node located at 35.7161, -78.9011	1.04	717	1198	1406	1406	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Beaverdam Creek						
Hydrologic node located at 35.8431, -78.2691	4.48	1000	1630	1890	3070	2570
Hydrologic node located at 35.8424, -78.2848	3.57	870	1420	1650	2630	2250
Hydrologic node located at 35.8441, -78.291	3.15	810	1320	1530	2440	2090
Hydrologic node located at 35.8459, -78.3029	2.39	680	1110	1300	2080	1780
Hydrologic node located at 35.8474, -78.3141	1.44	500	820	960	1550	1330
Hydrologic node located at 35.8492, -78.3201	1.14	430	710	840	1360	1150
Beaverdam Creek (Basin 12, Stream 1)						
Hydrologic node located at 35.8146, -78.5355	7.48	845	2898	4385	*	8271
Hydrologic node located at 35.8148, -78.5325	7.45	1823	5083	6110	*	9251
Hydrologic node located at 35.8186, -78.5225	6.79	1789	4664	5841	*	9094
Hydrologic node located at 35.8179, -78.5218	6.58	2546	6064	7395	*	9408
Hydrologic node located at 35.8136, -78.5086	5.94	1790	2790	3100	4010	3950
Hydrologic node located at 35.8174, -78.5031	4.09	950	1540	1790	2880	2440
Hydrologic node located at 35.819, -78.5007	2.41	690	1120	1310	2020	1790
Hydrologic node located at 35.8275, -78.4887	1.63	540	890	1040	1620	1430
Hydrologic node located at 35.8276, -78.4858	1.00	400	660	780	1140	1070
Hydrologic node located at 35.8259, -78.4764	0.67	310	520	610	850	850
Hydrologic node located at 35.8241, -78.4717	0.43	240	400	470	630	650
Beaverdam Creek (Basin 15, Stream 21)						
Hydrologic node located at 35.8308, -78.5366	2.76	1222	2721	3266	*	4678
Hydrologic node located at 35.8321, -78.5362	2.75	1252	2806	3298	*	4729
Hydrologic node located at 35.8393, -78.5422	2.47	1250	2748	3230	*	4680
Hydrologic node located at 35.8412, -78.5481	2.10	1464	2651	3152	*	4544
Hydrologic node located at 35.8424, -78.5563	1.70	1641	2966	3491	*	4965
Hydrologic node located at 35.844, -78.5618	1.00	1178	1974	2323	*	3298
Hydrologic node located at 35.8448, -78.5643	0.70	828	1388	1630	*	2308
Beaverdam Creek (Basin 18, Stream 28)						
Hydrologic node located at 35.8244, -78.6476	3.67	2020	3331	3879	*	6165
Hydrologic node located at 35.8218, -78.6567	3.39	2063	3393	4069	*	6179
Beaverdam Creek Tributary 2						
At the confluence with Beaverdam Lake	0.70	320	530	630	800	870
Beaverdam Lake						
At the confluence with Falls Lake	52.80	4600	7140	8190	13560	10830
Approximately 2.5 miles downstream of Old Weaver Trail	52.18	4570	7090	8130	13450	10750
Approximately 2.0 miles downstream of Old Weaver Trail	51.09	4510	7000	8030	13320	10620
Approximately 1.0 mile downstream of Old Weaver Trail	45.84	4220	6560	7530	12880	9970
Approximately 200 feet downstream of Beaverdam Lake	43.73	4090	6380	7320	12540	9700
Beddingfield Creek						
Approximately 0.4 mile downstream of Shotwell Road	5.43	*	*	2150	*	*
Big Branch						
Approximately 1,580 feet upstream of confluence with Little White Oak Creek	2.10	*	*	1170	2340	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Big Branch						
Approximately 1,060 feet downstream of Shearon Harris Road	1.60	*	*	1011	2060	*
Approximately 280 feet upstream of Shearon Harris Road	1.50	*	*	975	2000	*
Approximately 1,580 feet upstream of Shearon Harris Road	1.40	*	*	927	1910	*
Approximately 0.8 mile upstream of Highway 1	0.10	*	*	198	447	*
Big Branch (Basin 10, Stream 8)						
Hydrologic node located at 35.8673, -78.3661	1.76	615	1268	1555	1996	2516
At mouth	1.70	*	*	1400	*	*
Hydrologic node located at 35.8709, -78.3519	1.36	394	832	1038	1472	1649
Big Branch (Basin 18, Stream 21)						
Hydrologic node located at 35.818, -78.6289	4.02	2064	3109	3378	*	3857
Hydrologic node located at 35.8259, -78.6287	3.80	2230	3076	3337	*	3807
Hydrologic node located at 35.8295, -78.6292	3.61	2195	3024	3287	*	3754
Hydrologic node located at 35.832, -78.6278	3.07	1913	2848	3253	*	3782
Hydrologic node located at 35.834, -78.6264	2.64	1647	2986	3405	*	4201
Hydrologic node located at 35.8426, -78.6256	1.63	810	2009	2607	*	4265
Hydrologic node located at 35.8498, -78.6238	1.35	670	1922	2533	*	4281
Hydrologic node located at 35.8527, -78.6243	0.99	461	1704	2265	*	3634
Hydrologic node located at 35.8554, -78.6262	0.52	739	1237	1456	*	2068
Big Branch (Basin 26, Stream 5)						
Hydrologic node located at 35.6703, -78.8837	11.07	2409	4529	5533	7678	8120
Hydrologic node located at 35.6743, -78.8781	3.27	1327	2384	2952	4037	4423
Hydrologic node located at 35.6775, -78.8749	3.13	1362	2441	2989	4102	4493
Hydrologic node located at 35.6889, -78.8728	2.37	1487	2162	2828	3867	4259
Hydrologic node located at 35.696, -78.8745	1.49	621	1141	1384	1864	2045
Hydrologic node located at 35.7014, -78.8762	1.20	530	1022	1264	1729	1893
Hydrologic node located at 35.7049, -78.8756	0.96	511	987	1217	1659	1812
Big Branch (Basin 30, Stream 2)						
Hydrologic node located at 35.7455, -78.5691	12.06	4558	7603	8901	*	11386
Hydrologic node located at 35.7398, -78.5696	5.79	2512	4466	5319	*	6920
Hydrologic node located at 35.7295, -78.5683	4.88	1946	3451	4100	*	5373
Hydrologic node located at 35.7262, -78.5673	3.60	1105	2004	2392	*	3465
Hydrologic node located at 35.7186, -78.5643	2.41	576	1128	1755	*	2892
Hydrologic node located at 35.7119, -78.5644	2.12	546	1078	1682	*	2777
Hydrologic node located at 35.7106, -78.5642	2.11	545	1077	1680	*	2775
Big Branch Tributary No. 3						
Hydrologic node located at 35.7369, -78.5824	4.20	1384	2092	2305	*	2756
Hydrologic node located at 35.7384, -78.5869	0.94	891	1324	1472	*	1718
Hydrologic node located at 35.7378, -78.5944	0.45	543	911	1071	*	1377
Hydrologic node located at 35.7371, -78.6004	0.30	430	706	824	*	1048
Hydrologic node located at 35.7378, -78.6049	0.19	310	495	573	*	722

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Big Branch Tributary No.1 (Basin 30, Stream 6)						
Hydrologic node located at 35.7397, -78.5697	5.90	2076	3250	3759	*	4521
Hydrologic node located at 35.7318, -78.585	3.93	1951	3043	4041	*	5269
Hydrologic node located at 35.7284, -78.5949	3.38	1888	3508	4288	5496	6391
Hydrologic node located at 35.7274, -78.5966	2.36	1477	2658	3213	3866	4649
Hydrologic node located at 35.7274, -78.6022	1.48	1016	1828	2171	2639	3108
Hydrologic node located at 35.7368, -78.5827	1.20	1042	1554	1737	*	2050
Black Creek						
Approximately 530 feet upstream of Wake/Johnston County boundary	14.04	*	*	2090	*	*
Approximately 4500 feet upstream of Mt Pleasant Church Road	13.61	1590	2690	3140	5600	4460
Approximately 0.6 mile upstream of Wake/Johnston County boundary	13.37	*	*	2030	*	*
Just upstream of Mt Pleasant Church Road	12.62	1560	2640	3080	5400	4360
At the confluence with Basin 23, Stream 2	9.61	1400	2370	2760	4670	3900
Just upstream of Old Stage Road	9.09	1380	2350	2720	4560	3840
Approximately 1200 feet upstream of Old Stage Road	8.81	1380	2330	2700	4480	3810
Approximately 6000 feet downstream of Walter Myatt Road	8.19	1290	2200	2560	4320	3630
Approximately 3000 feet downstream of Walter Myatt Road	6.81	1220	2080	2420	3960	3400
Just upstream of Walter Myatt Road	6.05	1190	2030	2350	3770	3280
At the confluence with Basin 23, Stream 3	4.13	1100	1850	2120	3170	2920
At the confluence with Basin 23, Stream 5	2.68	940	1590	1810	2550	2480
Approximately 4000 downstream of Old Honeycutt Road	1.51	680	1180	1360	1870	1870
Approximately 700 downstream of Old Honeycutt Road	1.14	640	1100	1260	1640	1710
Approximately 1200 feet upstream of Highway 55	0.38	340	620	710	860	990
Black Creek Tributary A (Basin 18, Stream 11)						
Hydrologic node located at 35.8363, -78.7884	3.65	1654	2811	3354	4136	4802
Hydrologic node located at 35.8303, -78.786	3.46	2077	3551	4259	5231	6047
Hydrologic node located at 35.8241, -78.7837	2.77	1858	3137	3732	4585	5264
Hydrologic node located at 35.8204, -78.7856	2.66	1903	3186	3774	4603	5305
Hydrologic node located at 35.8147, -78.7864	1.39	1006	1676	1986	2435	2823
Hydrologic node located at 35.8094, -78.782	1.01	844	1394	1640	1988	2210
Hydrologic node located at 35.802, -78.7773	0.49	385	636	753	1017	1042
Bradley Creek (Basin 24, Stream 3)						
At the confluence with Kenneth Creek	0.79	150	270	330	960	480
Bridges Branch						
Hydrologic node located at 35.8039, -78.6084	0.46	339	565	679	*	995
Hydrologic node located at 35.7999, -78.6106	0.38	332	587	699	*	1018
Brier Creek (Basin 18, Stream 14)						
At Interstate 40	12.42	*	*	1360	1440	*
Approximately 1,000 feet upstream of Interstate 40	11.76	*	*	423	485	*
Approximately 0.5 mile upstream of Airport Boulevard	11.62	*	*	5190	6210	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Brier Creek (Basin 18, Stream 14)						
Approximately 0.4 mile upstream of confluence of Little Brier Creek (Basin 18, Stream 15)	1.26	*	*	1530	1670	*
Approximately 0.5 mile upstream of Nelson Road	1.00	*	*	1440	1620	*
Buck Branch (Basin 20, Stream 12)						
At the confluence with Reedy Branch	2.01	990	1580	1760	1970	2250
Approximately 1900 feet downstream of Vandora Springs Road	1.62	940	1490	1650	1810	2080
Just upstream of Timber Drive	1.21	830	1310	1450	1600	1830
Just upstream of Woodland Drive	0.85	680	1100	1210	1360	1530
Just upstream of Spring Drive	0.69	610	990	1090	1230	1370
Buckhorn Branch (Basin 3, Stream 9)						
At the confluence of New Light Creek	3.10	800	1300	1520	2080	2070
Approximately 3800 feet downstream of Buckhorn Lane	2.50	700	1140	1340	1870	1830
Approximately 1600 feet downstream of Buckhorn Lane	1.66	540	900	1050	1480	1440
Buckhorn Creek						
Hydrologic node located at 35.5922, -78.9163	11.46	2123	4271	5582	8095	9127
Hydrologic node located at 35.5905, -78.9081	11.14	2107	4263	5583	8060	9104
Hydrologic node located at 35.5904, -78.9042	8.80	1995	4025	5274	7553	8588
Hydrologic node located at 35.5883, -78.8942	8.34	1997	4047	5352	7627	8737
Hydrologic node located at 35.5859, -78.8829	6.01	1846	3718	4758	6467	7629
Hydrologic node located at 35.5957, -78.8725	3.16	1563	3079	3837	4536	5821
Hydrologic node located at 35.6029, -78.8592	2.28	1421	2650	3243	3696	4762
Hydrologic node located at 35.6035, -78.8568	1.10	684	1262	1538	1718	2247
Buffalo Branch (Basin 10, Stream 22)						
Hydrologic node located at 35.79, -78.336	1.12	634	1234	1506	1982	2292
At Morphus Bridge Road	0.40	*	*	600	*	*
Buffalo Creek (Basin 9, Stream 1)						
Hydrologic node located at 35.7563, -78.365	19.96	2520	3980	4590	7470	6140
Hydrologic node located at 35.7593, -78.3657	19.42	2480	3920	4520	7350	6040
Hydrologic node located at 35.7602, -78.3666	18.54	2410	3810	4400	7210	5880
Hydrologic node located at 35.7678, -78.3731	17.84	2350	3720	4300	7080	5750
Hydrologic node located at 35.7698, -78.3769	17.35	2310	3660	4230	6960	5660
Hydrologic node located at 35.7729, -78.3823	16.91	2280	3610	4160	6870	5570
Hydrologic node located at 35.7755, -78.3836	16.05	2210	3490	4040	6710	5410
Hydrologic node located at 35.7824, -78.3915	14.89	2110	3340	3860	6420	5180
Hydrologic node located at 35.7874, -78.3955	14.21	2050	3250	3750	6290	5040
Hydrologic node located at 35.7936, -78.3995	13.38	1970	3130	3620	6100	4860
Hydrologic node located at 35.799, -78.4046	12.80	1920	3050	3530	5920	4740
Hydrologic node located at 35.8027, -78.4081	12.51	1890	3010	3480	5840	4680
Hydrologic node located at 35.8039, -78.4082	11.98	1840	2930	3390	5650	4560
Hydrologic node located at 35.812, -78.4109	11.24	1770	2820	3270	5350	4390
Hydrologic node located at 35.8174, -78.4133	10.24	1560	2640	3190	4390	4740
Hydrologic node located at 35.8221, -78.4157	9.35	1470	2490	3010	4090	4490

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Buffalo Creek (Basin 9, Stream 1)						
Hydrologic node located at 35.8351, -78.4226	7.14	1230	2100	2540	3430	3810
Hydrologic node located at 35.8469, -78.4247	6.25	1120	1930	2340	3170	3520
Hydrologic node located at 35.8565, -78.4254	5.26	1000	1730	2100	2810	3170
Hydrologic node located at 35.8594, -78.4264	4.39	890	1540	1880	2530	2840
Hydrologic node located at 35.8728, -78.4301	2.47	610	1070	1310	1660	2010
Hydrologic node located at 35.8787, -78.4315	1.98	520	930	1140	1350	1750
Hydrologic node located at 35.8908, -78.4396	1.04	340	620	760	1470	1190
Hydrologic node located at 35.7824, -78.3913	0.46	300	550	630	880	870
Camp Branch (Basin 22, Stream 7)						
Hydrologic node located at 35.651, -78.768	24.05	1855	3604	4540	6153	7422
Hydrologic node located at 35.6518, -78.7683	3.75	1137	1875	2287	2956	3617
Hydrologic node located at 35.6578, -78.7688	3.48	1125	1963	2356	2930	3576
Hydrologic node located at 35.6628, -78.7701	2.14	769	1402	1752	2136	2703
Hydrologic node located at 35.6753, -78.7755	1.74	771	1379	1734	2090	2676
Hydrologic node located at 35.6843, -78.7772	1.27	687	1335	1659	1972	2514
Hydrologic node located at 35.6637, -78.7699	1.00	522	989	1200	1424	1607
Hydrologic node located at 35.695, -78.7817	0.49	458	780	929	1073	1306
Cary Branch						
Hydrologic node located at 35.6066, -78.9183	4.71	1702	2890	3513	4417	5129
Hydrologic node located at 35.613, -78.905	3.84	1660	2858	3460	4322	5052
Hydrologic node located at 35.6147, -78.9034	2.10	954	1508	1859	2462	2904
Hydrologic node located at 35.6209, -78.8884	1.53	780	1349	1662	2164	2552
Hydrologic node located at 35.6201, -78.878	1.05	609	1142	1398	1709	2057
Cedar Creek (Basin 15, Stream 34)						
At the confluence with Falls Lake	3.54	1470	2280	2520	2520	3170
Upstream of Possum Track Road	2.89	1290	2020	2230	2240	2820
Upstream of Swans Mill Crossing	1.88	920	1490	1660	1670	2140
Upstream of Honeycutt Road	1.43	730	1210	1360	1370	1780
Approximately 1800 feet upstream of Coachmans Way	1.10	570	970	1100	1160	1470
Cedar Fork (Basin 10, Stream 15)						
At confluence with Little River (Basin 10, Stream 1)	4.34	*	*	1860	2902	*
Approximately 0.6 mile upstream of confluence with Little River (Basin 10, Stream 1)	3.91	*	*	2316	2849	*
Approximately 1.4 miles upstream of confluence with Little River (Basin 10, Stream 1)	2.91	*	*	2219	2760	*
Approximately 2.0 miles upstream of confluence with Little River (Basin 10, Stream 1)	2.15	*	*	1995	2519	*
Approximately 3.0 miles upstream of confluence with Little River (Basin 10, Stream 1)	1.21	*	*	1307	1794	*
Clark Branch (Basin 28, Stream 3)						
Just upstream of confluence with White Oak Creek	1.10	*	*	1360	1530	*
Approximately 1,060 feet upstream of Green Level Church Road	0.40	*	*	785	958	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Coles Branch (Basin 18, Stream 24)						
Hydrologic node located at 35.8026, -78.8334	2.58	164	221	248	319	313
Hydrologic node located at 35.8, -78.8289	2.51	1355	2296	2739	3331	3895
Hydrologic node located at 35.7984, -78.818	2.02	1104	1978	2339	2827	3239
Hydrologic node located at 35.793, -78.8067	1.15	931	1490	1772	2118	2399
Hydrologic node located at 35.7904, -78.8057	0.43	491	768	894	1014	1198
Crabtree Creek (Basin 18, Stream 9)						
Hydrologic node located at 35.7666, -78.5405	145.21	8000	12444	14912	*	22738
Hydrologic node located at 35.7717, -78.5455	144.12	7974	12411	14878	*	22704
Hydrologic node located at 35.7817, -78.5763	140.36	7902	12322	14810	*	22687
Hydrologic node located at 35.796, -78.5958	127.81	7010	11196	13330	*	20236
Hydrologic node located at 35.8046, -78.6084	122.11	6798	10894	13003	*	20506
Hydrologic node located at 35.8108, -78.6114	121.75	6917	11093	13172	*	20744
Hydrologic node located at 35.8172, -78.6284	115.76	6472	10398	12172	*	18185
Hydrologic node located at 35.8237, -78.646	110.30	5659	9277	11461	*	17196
Hydrologic node located at 35.8268, -78.6496	110.07	5658	9275	11451	*	17180
Hydrologic node located at 35.8277, -78.6503	110.06	5660	9274	11452	*	17177
Hydrologic node located at 35.838, -78.6632	98.69	5102	8900	10967	*	16801
Hydrologic node located at 35.8368, -78.6762	95.01	4799	8458	10291	*	14911
Hydrologic node located at 35.8447, -78.6875	86.27	4016	7221	8729	*	12584
Hydrologic node located at 35.842, -78.7017	84.81	3949	7024	8495	*	12225
Hydrologic node located at 35.8454, -78.7212	76.89	3580	6470	7821	*	11157
Hydrologic node located at 35.8454, -78.7247	60.56	1656	3049	3747	*	5517
Hydrologic node located at 35.8409, -78.7438	54.96	1352	1730	2078	*	2927
Hydrologic node located at 35.843, -78.7591	54.13	1346	1682	1995	*	2734
Hydrologic node located at 35.8433, -78.7694	53.38	1965	2544	2793	2882	3395
Hydrologic node located at 35.8396, -78.7799	52.76	1364	1609	1719	1787	2054
Hydrologic node located at 35.8306, -78.8108	17.40	3076	4865	5871	7190	8557
Hydrologic node located at 35.8295, -78.8122	16.45	2899	4573	5512	6725	8012
Hydrologic node located at 35.8457, -78.7249	16.27	2294	4061	4857	*	7212
Hydrologic node located at 35.8245, -78.8179	15.98	3689	5574	6610	7915	9348
Hydrologic node located at 35.8225, -78.8211	14.72	3622	5402	6368	7567	8896
Hydrologic node located at 35.8208, -78.8235	14.61	3877	5716	6731	7950	9327
Hydrologic node located at 35.8195, -78.825	13.61	3761	5483	6424	7563	8880
Hydrologic node located at 35.8165, -78.8267	9.51	2434	3504	4053	4698	5469
Hydrologic node located at 35.8116, -78.8287	9.28	2583	3741	4359	5078	5996
Hydrologic node located at 35.8029, -78.8337	6.21	2503	3670	4287	5038	5978
Hydrologic node located at 35.802, -78.8338	4.23	1275	1699	1966	2375	2738
Hydrologic node located at 35.7988, -78.8325	4.20	1433	1920	2227	2663	3070
Hydrologic node located at 35.791, -78.8318	3.85	1171	1773	2022	2382	2706
Hydrologic node located at 35.7851, -78.8302	2.63	87	153	161	273	570
Hydrologic node located at 35.7815, -78.8282	2.54	1485	2595	3286	3892	4699
Hydrologic node located at 35.7764, -78.8252	0.80	744	1131	1097	1229	1549

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Crabtree Creek (Basin 18, Stream 9)						
Hydrologic node located at 35.7719, -78.8169	0.47	392	671	801	941	1123
Crabtree Creek Tributary No. 6 (Basin 18, Stream 20)						
Hydrologic node located at 35.8304, -78.8108	1.59	929	1480	1736	2059	2393
Hydrologic node located at 35.8214, -78.8066	0.94	655	1071	1272	1503	1712
Hydrologic node located at 35.8139, -78.8051	0.69	581	994	1202	1468	1707
Hydrologic node located at 35.8107, -78.8024	0.47	381	675	814	942	1161
Dunn Creek (Basin 6, Stream 5)						
Hydrologic node located at 35.9512, -78.5065	3.81	1450	2270	2520	3130	3190
Hydrologic node located at 35.959, -78.5034	2.24	870	1450	1630	2310	2150
Hydrologic node located at 35.9727, -78.4952	1.78	680	1170	1340	1970	1800
Hydrologic node located at 35.9812, -78.4892	1.30	540	950	1090	1590	1480
Hydrologic node located at 35.9942, -78.482	0.60	330	600	690	960	960
Hydrologic node located at 35.9982, -78.4813	0.31	230	430	490	670	680
Dutchmans Branch (Basin 20, Stream 17)						
Hydrologic node located at 35.6897, -78.7259	4.89	1007	2011	2501	2631	4098
Hydrologic node located at 35.6933, -78.7397	3.96	963	1963	2420	2523	3816
Hydrologic node located at 35.6956, -78.7539	3.00	910	1904	2334	2494	3754
Hydrologic node located at 35.7004, -78.768	2.04	902	1639	1967	2073	2905
Hydrologic node located at 35.7091, -78.7825	1.04	700	1262	1511	1588	2221
East Fork Mine Creek (Basin 18, Stream 34)						
Hydrologic node located at 35.8735, -78.6486	2.27	1432	1975	2137	*	2503
Hydrologic node located at 35.874, -78.6479	2.25	1427	1970	2133	*	2495
Hydrologic node located at 35.8768, -78.6455	1.17	582	932	1033	*	1224
Hydrologic node located at 35.8814, -78.6421	0.97	518	940	1097	*	1648
Hydrologic node located at 35.883, -78.6417	0.82	494	892	1068	*	1571
East Fork Mine Creek Tributary (Basin 18, Stream 35)						
Hydrologic node located at 35.877, -78.6443	0.95	1005	1610	1735	*	2030
Hydrologic node located at 35.8762, -78.6413	0.84	893	1419	1540	*	1788
Hydrologic node located at 35.8759, -78.6407	0.83	894	1412	1532	*	1782
Hydrologic node located at 35.8749, -78.6376	0.63	655	1166	1380	*	1936
Hydrologic node located at 35.875, -78.6352	0.53	555	993	1186	*	1735
Echo Creek (Basin 20, Stream 14)						
At the confluence with Yates Branch	1.86	1090	1690	1860	2070	2330
Just upstream of Old Stage Road	1.64	1030	1600	1760	1960	2200
Just upstream of Grovemont Road	1.04	810	1280	1400	1580	1750
Just upstream of Greenbrier Road	0.55	610	960	1060	1170	1310
Falls Lake						
Approximately 0.2 miles upstream of Falls Dam Road	762.19	23880	35440	39980	68350	51340
Approximately 1.4 miles downstream of Cedar Creek	761.69	23870	35420	39960	68320	51320
Approximately 1.3 miles downstream of Cedar Creek	760.75	23860	35400	39930	68270	51280
At the confluence of Cedar Creek	756.08	23770	35260	39790	68020	51100

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Falls Lake						
Approximately 2.4 miles downstream of Durham Road	734.08	23340	34650	39090	66840	50230
Approximately 1.80 miles downstream of Durham Road	733.12	23320	34620	39060	66790	50190
Approximately 1.29 miles downstream of Durham Road	732.37	23300	34600	39040	66750	50160
Approximately 0.67 miles downstream of Durham Road	718.33	23030	34200	38590	65990	49590
At the confluence of Upper Barton Creek	704.92	22760	33810	38160	65250	49050
Approximately 1200 feet upstream of Durham Road	703.15	22730	33760	38110	65160	48980
Approximately 1.08 miles upstream of Durham Road	702.52	22710	33740	38090	65120	48960
Approximately 1.54 miles upstream of Durham Road	701.90	22700	33730	38070	65090	48930
Approximately 1.94 miles downstream of New Light Road	679.19	22240	33070	37330	63830	48000
Approximately 1.70 miles downstream of New Light Road	677.98	22220	33030	37290	63760	47950
Approximately 1.05 miles downstream of New Light Road	677.36	22210	33010	37270	63730	47930
Upstream of New Light Road	676.49	22190	32990	37240	63680	47890
Approximately 1000 feet upstream of New Light Road	674.66	22150	32930	37180	63580	47810
Approximately 2700 feet upstream of New Light Road	673.48	22130	32900	37140	63510	47760
Approximately 0.4 miles downstream of Creedmoor Road	619.64	21020	31300	35350	60450	45500
Downstream of Creedmoor Road	619.40	21020	31290	35340	60430	45490
Approximately 0.6 miles upstream of Creedmoor Road	618.28	20990	31250	35300	60370	45440
Approximately 1.2 miles upstream of Creedmoor Road	596.19	20530	30580	34550	59080	44490
At the confluence of Ledge Creek	559.95	19750	29450	33290	56920	42890
Approximately 3.4 miles downstream of Cheek Road	559.59	19740	29440	33270	56900	42880
Approximately 2.2 miles downstream of Cheek Road	536.13	19220	28690	32440	55480	41820
Approximately 1.19 miles downstream of Cheek Road	534.96	19200	28650	32400	55400	41760
Upstream of Cheek Road	533.67	19170	28610	32350	55330	41710
At the confluence with Falls Lake	1.53	580	1030	1180	1350	1610
At the confluence with Falls Lake	1.41	490	810	950	1260	1310
Approximately 0.5 miles upstream of confluence with Falls Lake	1.01	400	670	780	990	1080
Approximately 0.9 miles upstream of confluence with Falls Lake	0.79	400	720	830	910	1130
Fowlers Mill Creek (Basin 10, Stream 12)						
Approximately 530 feet upstream of Little River (Basin 10, Stream 1)	3.51	*	*	1630	3874	*
Approximately 1,580 feet downstream of Pulleytown Road	3.42	*	*	1610	3335	*
Approximately 0.4 mile upstream of Pulleytown Road	2.44	*	*	1299	2133	*
Approximately 1.1 miles upstream of Pulleytown Road	1.13	*	*	806	1872	*
Gill Creek (Basin 10, Stream 24)						
Hydrologic node located at 35.8066, -78.3469	0.88	528	956	1145	1514	1685
At mouth	0.80	*	*	950	*	*
Guffy Branch (Basin 21, Stream 4)						
At confluence with Little Creek (Basin 21, Stream 1)	4.02	*	*	1029	*	*
At downstream side of Sauls Road	3.32	*	*	923	*	*
Approximately 0.7 mile upstream of Sauls Road	2.89	*	*	853	*	*
Approximately 1.3 miles upstream of Sauls Road	2.38	*	*	764	*	*
Approximately 2.1 miles upstream of Sauls Road	1.84	*	*	660	*	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Haleys Branch (Basin 18, Stream 10)						
Hydrologic node located at 35.849, -78.7841	1.62	990	1479	1686	2044	2194
Hare Snipe Creek (Basin 18, Stream 1)						
Hydrologic node located at 35.8452, -78.6883	7.21	1764	2874	3399	*	4880
Hydrologic node located at 35.8506, -78.6896	6.90	1794	2956	3519	*	4998
Hydrologic node located at 35.8539, -78.6901	6.79	1794	2955	3536	*	5012
Hydrologic node located at 35.8559, -78.6903	6.53	1757	2900	3491	*	4948
Hydrologic node located at 35.8615, -78.6955	6.19	1819	3091	3793	*	5308
Hydrologic node located at 35.8623, -78.6957	4.93	1209	1957	2383	*	3173
Hydrologic node located at 35.8634, -78.6971	4.54	837	1340	1555	*	2138
Hatchet Grove Tributary (Basin 18, Stream 25)						
Hydrologic node located at 35.8163, -78.827	3.78	1454	2306	2710	3186	3714
Hydrologic node located at 35.8167, -78.8444	3.25	1534	2356	2726	3160	3623
Hydrologic node located at 35.8164, -78.8453	2.18	651	997	1154	1277	1534
Hydrologic node located at 35.8161, -78.8505	1.48	311	579	675	764	871
Hydrologic node located at 35.8172, -78.8547	1.42	939	1453	1726	1973	2441
Hydrologic node located at 35.8168, -78.8598	1.18	742	1174	1430	1649	2054
Hydrologic node located at 35.815, -78.8626	0.81	521	962	1159	1337	1683
Hydrologic node located at 35.8072, -78.8642	0.51	491	813	962	1071	1328
Hillard Creek (Basin 30, Stream 7)						
Hydrologic node located at 35.7269, -78.5966	1.00	539	1064	1303	1917	1955
Hydrologic node located at 35.7178, -78.5963	0.59	310	643	808	1209	1235
Hodges Creek (Basin 8, Stream 1)						
Hydrologic node located at 35.8577, -78.5163	8.02	1771	3653	4504	*	7007
Hydrologic node located at 35.8549, -78.5094	7.53	1380	2220	2570	4210	3480
Hydrologic node located at 35.856, -78.5043	6.62	1280	2050	2380	3900	3230
Hydrologic node located at 35.8545, -78.4979	6.36	1250	2000	2330	3810	3150
Hydrologic node located at 35.8543, -78.4967	5.79	1180	1900	2200	3610	2980
Approximately 1,060 feet downstream of Watkins Road	3.05	*	*	1500	1690	*
Approximately 1,060 feet upstream of Watkins Road	2.68	*	*	1780	2040	*
Approximately 1,060 feet upstream of R C Watson Road	1.90	*	*	1450	1690	*
Approximately 0.7 mile upstream of R C Watson Road	0.64	*	*	816	899	*
Approximately 1.0 mile upstream of R C Watson Road	0.52	*	*	756	786	*
Hominy Branch (Basin 10, Stream 4)						
Hydrologic node located at 35.8063, -78.3481	2.52	509	1039	1315	1825	2236
At mouth	2.50	*	*	950	*	*
Hydrologic node located at 35.809, -78.3553	1.83	452	904	1110	1680	2109
Hydrologic node located at 35.8052, -78.3709	1.17	449	905	1113	1541	1728
Hominy Creek (Basin 10, Stream 7)						
Hydrologic node located at 35.8502, -78.369	3.94	728	1857	2475	2968	4075
Approximately 1,580 feet upstream of confluence with Little River (Basin 10, Stream 1)	3.86	*	*	2445	3063	*
At mouth	3.80	*	*	2310	*	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Hominy Creek (Basin 10, Stream 7)						
Approximately 0.5 mile upstream of Lizard Lick Road	3.48	*	*	1620	2873	*
Approximately 1.0 mile upstream of Lizard Lick Road	2.49	*	*	1912	2386	*
Approximately 530 feet downstream of Buck Road	2.09	*	*	1829	2297	*
Approximately 1,060 feet upstream of Edgemont Road	1.14	*	*	1262	1742	*
Honeycutt Creek (Basin 15, Stream 31)						
Approximately 0.2 miles upstream of Falls Dam Road	8.56	2250	3440	3820	4270	4840
Approximately 1.15 miles downstream of Raven Ridge Road	7.83	2070	3190	3550	3960	4530
Approximately 2200 feet downstream of Raven Ridge Road	5.14	1520	2410	2700	2780	3500
Upstream of Raven Ridge Road	4.94	1470	2340	2620	2750	3400
Approximately 3700 feet upstream of Raven Ridge Road	3.20	1180	1900	2120	2190	2750
Upstream of Honeycutt Road	2.80	1110	1790	2000	2130	2590
Horse Creek						
At the confluence of Falls Lake	21.91	2670	4210	4860	6950	6480
Approximately 1.0 mile downstream of Durham Road	15.69	2180	3450	3980	5670	5340
Upstream of Durham Road	14.79	2100	3330	3840	5460	5160
Approximately 0.48 miles downstream of Thompson Mill Road	12.28	1870	2980	3440	4920	4620
Upstream of Thompson Mill Road	11.86	1830	2910	3370	4840	4530
Approximately 1900 feet upstream of Thompson Mill Road	11.48	1790	2860	3310	4740	4450
Upstream of Kearney Road	10.97	1740	2780	3220	4610	4330
Approximately 2300 feet downstream of Jenkins Road	10.23	1670	2670	3090	4400	4160
Upstream of Jenkins Road	9.79	1630	2600	3010	4260	4050
Approximately 400 feet upstream of Jenkins Road	8.37	1480	2360	2740	3860	3700
Approximately 675 feet downstream of Purnell Road	7.92	1430	2290	2650	3730	3580
Upstream of Purnell Road	7.18	1340	2160	2500	3520	3380
House Creek (Basin 18, Stream 36)						
Hydrologic node located at 35.8363, -78.6762	2.82	1441	2082	2305	*	2864
Hydrologic node located at 35.8299, -78.681	2.62	1448	2056	2276	*	2841
Hydrologic node located at 35.8268, -78.6826	2.46	1442	2340	2658	*	2894
Hydrologic node located at 35.8226, -78.6847	2.19	1472	2362	2699	*	3455
Hydrologic node located at 35.8164, -78.6873	1.86	1336	2193	2470	*	3113
Hydrologic node located at 35.815, -78.6885	1.76	1354	2229	2597	*	3389
Hydrologic node located at 35.8151, -78.6894	1.24	584	946	1095	*	1556
Hydrologic node located at 35.809, -78.6928	1.00	524	861	967	*	1205
Hydrologic node located at 35.8041, -78.6985	0.50	377	696	837	*	1236
Hydrologic node located at 35.8013, -78.6995	0.18	69	137	165	*	253
Hydrologic node located at 35.8006, -78.6997	0.18	69	136	164	*	251
Hydrologic node located at 35.7983, -78.7007	0.12	49	109	137	*	219
Jack Branch (Basin 28, Stream 4)						
Approximately 490 feet upstream of confluence with White Oak Creek	1.10	*	*	1610	1790	*
Approximately 0.8 mile upstream of confluence with White Oak Creek	0.70	*	*	1380	1540	*
Approximately 1,060 feet upstream of Wade Drive	0.20	*	*	490	633	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Jim Branch						
Approximately 0.4 mile upstream of confluence with Buckhorn Creek	1.80	*	*	1082	2070	*
Approximately 0.8 mile upstream of confluence with Buckhorn Creek	1.60	*	*	1011	1980	*
Approximately 1.2 miles upstream of confluence with Buckhorn Creek	1.20	*	*	816	1680	*
Juniper Branch (Basin 21, Stream 2)						
At confluence with Little Creek (Basin 21, Stream 1)	2.03	*	*	700	*	*
Approximately 530 feet downstream of Pagan Road	1.59	*	*	607	*	*
Approximately 1,580 feet upstream of Pagan Road	1.36	*	*	557	*	*
Approximately 530 feet downstream of Lakefield Drive	1.08	*	*	489	*	*
Kenneth Branch (Basin 24, Stream 6)						
At the confluence with Kenneth Creek	0.91	160	290	360	1100	520
Approximately 700 feet upstream of W. Academy Street	0.80	150	270	330	1030	480
Approximately 1500 feet upstream of W. Academy Street	0.69	140	250	300	940	440
Kenneth Creek (Basin 24, Stream 2)						
At Wake/Harnett County boundary	11.30	*	*	3389	3990	*
At the confluence with Angier Creek	5.61	500	870	1060	3030	1500
Approximately 0.4 mile upstream of Wake/Harnett County boundary	5.60	*	*	2194	2480	*
Just upstream of Angier Creek9	5.40	540	1330	1650	*	2800
At the confluence with Bradley Creek	4.60	450	770	940	2760	1340
Just upstream of Main Street	4.42	430	750	920	2710	1310
Just upstream of Wagstaff Road	3.19	360	620	760	2230	1080
At the confluence with Rocky Ford Branch	1.86	250	450	550	1580	790
Approximately 850 feet downstream of Fleming Loop Road	1.70	240	420	520	1510	750
At the confluence with Kenneth Branch	0.63	130	230	290	860	420
Kit Creek						
Approximately 2900 feet downstream of Green Level Church Road	8.58	2520	3750	4130	4890	5140
Just downstream of Green Level Church Road	8.21	2470	3670	4040	4740	5030
Just upstream of Green Level Church Road	7.67	2430	3610	3970	4510	4910
Just downstream of Highway 55	6.78	2140	3240	3570	4160	4470
At the confluence of Kit Creek Tributary 2	4.49	1740	2650	2920	3180	3640
At the confluence of Kit Creek Tributary	2.31	970	1580	1770	2080	2300
Approximately 2900 feet downstream of Davis Drive	2.05	850	1420	1590	1940	2090
Just downstream of Davis Drive	1.82	750	1270	1430	1810	1900
Kit Creek Tributary 1 (Basin 29, Stream 11)						
At the confluence of Kit Creek	2.05	1200	1840	2020	2080	2500
Just upstream of Kit Creek Road	1.94	1150	1770	1940	2010	2420
Approximately 2100 feet downstream of Davis Drive	1.81	1060	1650	1820	1890	2280
Just downstream of Davis Drive	0.99	670	1100	1230	1270	1570
Kit Creek Tributary 2 (Basin 29, Stream 8)						
At the confluence of Kit Creek	2.18	900	1490	1670	2220	2190
Approximately 900 feet downstream of Triangle Expressway	1.89	890	1450	1620	2070	2100
Just upstream of Triangle Expressway	1.05	620	1040	1170	1550	1520

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Lake Benson						
Hydrologic node located at 35.6622, -78.6128	64.08	5140	7950	9120	15430	12030
Hydrologic node located at 35.6658, -78.6242	63.28	5100	7890	9050	15320	11940
Hydrologic node located at 35.6677, -78.629	61.18	5030	7780	8920	15090	11770
At the confluence with Swift Creek	4.29	1870	2867	3158	3500	3954
Lake Crabtree						
Hydrologic node located at 35.8377, -78.784	52.38	8663	14089	16635	19907	23210
Hydrologic node located at 35.8368, -78.7884	46.46	6707	10317	12036	14063	16480
Hydrologic node located at 35.8351, -78.7995	25.91	1335	1983	2282	2737	3126
Hydrologic node located at 35.8424, -78.8047	25.57	1511	2283	2635	3260	3588
Hydrologic node located at 35.8349, -78.799	19.47	4183	6723	7897	9430	10909
Hydrologic node located at 35.8308, -78.8106	18.99	3835	6133	7223	8681	10099
Hydrologic node located at 35.8384, -78.7843	2.21	1205	1871	2186	2625	2951
Lake Wheeler						
Hydrologic node located at 35.6944, -78.6947	35.73	3137	6888	8475	9092	13882
Hydrologic node located at 35.6947, -78.7117	26.60	3595	6657	8166	8873	13257
Hydrologic node located at 35.6941, -78.712	5.44	374	709	1188	1399	3240
Lakemont Tributary (Basin 18, Stream 22)						
Hydrologic node located at 35.8427, -78.6264	0.50	513	956	1175	*	1868
Hydrologic node located at 35.8432, -78.6295	0.43	470	906	1186	*	1716
Hydrologic node located at 35.8456, -78.6331	0.38	522	909	1078	*	1556
Lens Branch (Basin 20, Stream 22)						
Approximately 135 feet upstream of Seabrook Avenue	1.01	722	1258	1779	*	2154
At Lochmere Drive	0.94	1444	2497	3557	*	4324
Approximately 300 feet upstream of SE Cary Parkway	0.21	775	1338	1887	*	2282
At U.S. Highway 64/1	0.08	747	1298	1833	*	2218
Approximately 1,135 feet upstream of the confluence with Swift Creek	0.06	402	813	1254	*	1586
Little Beaver Creek (Basin 27, Stream 1)						
Just upstream of Chatham/Wake County boundary	3.80	*	*	2450	*	*
Hydrologic node located at 35.6876, -78.9531	3.22	2093	3370	3975	4544	5508
Hydrologic node located at 35.689, -78.9452	2.79	2016	3215	3782	4334	5245
Hydrologic node located at 35.6902, -78.9398	2.12	1668	2639	3106	3564	4311
Hydrologic node located at 35.6928, -78.93	1.36	1171	1825	2161	2455	3028
Hydrologic node located at 35.6946, -78.9246	1.06	980	1549	1839	2097	2595
Hydrologic node located at 35.6963, -78.9189	0.61	579	950	1121	1258	1550
Little Beaverdam Creek (Basin 2, Stream 2)						
Approximately 1.66 miles upstream of Old Weaver Trail	1.73	560	920	1070	1510	1470
Approximately 2.16 miles upstream of Old Weaver Trail	1.02	400	670	780	1100	1080
Little Black Creek						
Approximately 0.6 mile upstream of Wake/Johnston County boundary	6.40	*	*	1330	2370	*
Approximately 0.5 mile upstream of Old Stage Road	5.78	*	*	1260	*	*
Approximately 1,580 feet upstream of Wimberly Road	5.23	*	*	1190	*	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Little Black Creek						
Approximately 0.7 mile upstream of Wimberly Road	4.66	*	*	1120	*	*
Approximately 0.7 mile downstream of Kennebec Road	3.90	*	*	1010	*	*
Approximately 1,060 feet downstream of Kennebec Road	2.71	*	*	823	*	*
Approximately 1,060 feet upstream of Kennebec Road	2.35	*	*	760	*	*
Approximately 0.4 mile upstream of Kennebec Road	2.11	*	*	715	*	*
At downstream side of Walter Myatt Road	1.35	*	*	554	*	*
Approximately 1,580 feet upstream of Walter Myatt Road	1.23	*	*	527	*	*
Little Branch (Basin 26, Stream 3)						
Hydrologic node located at 35.6742, -78.8782	7.66	2084	3754	4541	6168	6596
Hydrologic node located at 35.674, -78.8633	1.89	834	1363	1603	2336	2254
Hydrologic node located at 35.6741, -78.861	1.45	726	1125	1316	1772	1804
Hydrologic node located at 35.6706, -78.8406	0.53	368	608	719	945	997
Little Branch Tributary (Basin 26, Stream 4)						
Hydrologic node located at 35.6741, -78.8633	4.80	2019	3371	4027	5274	5740
Hydrologic node located at 35.6869, -78.8534	3.26	1880	3137	3751	4852	5230
Hydrologic node located at 35.6965, -78.8502	2.57	1711	2837	3323	4143	4579
Hydrologic node located at 35.7033, -78.8534	1.13	839	1229	1441	1611	1999
Hydrologic node located at 35.7185, -78.8412	0.68	657	1046	1223	1371	1664
Hydrologic node located at 35.7033, -78.8535	0.59	454	754	893	1014	1240
Hydrologic node located at 35.6867, -78.8534	0.52	405	652	765	949	1048
Little Brier Creek (Basin 18, Stream 15)						
At mouth	8.60	*	*	3500	*	*
Hydrologic node located at 35.8817, -78.8015	8.52	2656	4332	5003	*	6738
Hydrologic node located at 35.8857, -78.8013	7.87	2579	4218	4863	*	6390
Hydrologic node located at 35.8899, -78.7934	7.33	2650	4338	4935	*	6252
Hydrologic node located at 35.8953, -78.7914	5.04	2135	3388	3754	*	4733
Hydrologic node located at 35.8977, -78.7917	3.68	1904	3054	3354	*	4056
Hydrologic node located at 35.9102, -78.7901	3.23	2110	3178	3444	*	4119
Hydrologic node located at 35.9138, -78.7905	2.52	1843	2577	2698	*	2985
Hydrologic node located at 35.916, -78.7916	2.23	1890	2489	2591	*	2855
Hydrologic node located at 35.922, -78.7922	1.33	1234	2074	2437	*	3457
Little Brier Creek East (Basin 18, Stream 16)						
Hydrologic node located at 35.8961, -78.7911	1.96	908	1470	1668	*	2069
Hydrologic node located at 35.9013, -78.7842	1.46	913	1437	1607	*	1990
Hydrologic node located at 35.9076, -78.7809	1.23	908	1398	1559	*	1916
Hydrologic node located at 35.9115, -78.7763	1.06	758	1338	1592	*	2315
Little Creek (Basin 11, Stream 2)						
Hydrologic node located at 35.8122, -78.2645	5.32	1300	2150	2440	3680	3250
Hydrologic node located at 35.8173, -78.2781	4.47	1100	1870	2130	3260	2870
Hydrologic node located at 35.8226, -78.2856	3.63	1030	1730	1970	2880	2640
Hydrologic node located at 35.8237, -78.2891	2.72	1000	1640	1850	2540	2430
Hydrologic node located at 35.8248, -78.2958	2.12	940	1530	1710	2250	2220

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Little Creek (Basin 11, Stream 2)						
Hydrologic node located at 35.8262, -78.2995	1.23	740	1210	1350	1720	1740
Little Creek (Into Middle Creek)						
Approximately 530 feet downstream of Wake/Johnston County boundary	9.90	*	*	1710	4010	*
At confluence of Guffy Branch (Basin 21, Stream 4)	5.19	*	*	1190	*	*
Approximately 1,580 feet upstream of confluence of Guffy Branch (Basin 21, Stream 4)	5.05	*	*	1171	*	*
Approximately 0.9 mile downstream of confluence of Juniper Branch (Basin 21, Stream 2)	4.86	*	*	1150	*	*
Approximately 0.5 mile downstream of confluence of Juniper Branch (Basin 21, Stream 2)	4.42	*	*	1080	*	*
At confluence of Juniper Branch (Basin 21, Stream 2)	2.27	*	*	744	*	*
Approximately 0.8 mile downstream of Pagan Road	2.04	*	*	701	*	*
Approximately 530 feet upstream of Pagan Road	1.52	*	*	594	*	*
Approximately 0.7 mile upstream of Pagan Road	1.18	*	*	513	*	*
Little River						
At confluence of Basin 10, Stream 2	67.90	*	*	11700	11700	*
At confluence of Basin 10, Stream 3	66.50	*	*	10400	*	*
At confluence of Buffalo Branch (Basin 10, Stream 22)	65.38	*	*	10400	*	*
At confluence of Lizard Lick Creek (Basin 10, Stream 23)	63.23	*	*	10400	*	*
At confluence of Hominy Branch (Basin 10, Stream 4)	59.73	*	*	10300	*	*
At confluence of Gill Creek (Basin 10, Stream 24)	58.85	*	*	10200	*	*
At confluence of Wheelers Creek (Basin 10, Stream 25)	56.68	*	*	10100	*	*
At confluence of Basin 10, Stream 5	53.45	*	*	10000	*	*
Approximately 0.3 mile upstream of US Highway 64	51.45	*	*	9930	*	*
At confluence of Basin 10, Stream 6	47.08	*	*	9750	*	*
At confluence of Hominy Creek (Basin 10, Stream 7)	43.12	*	*	9490	*	*
Approximately 1,580 feet upstream of confluence of Hominy Creek (Basin 10, Stream 7)	42.98	*	*	9490	*	*
At confluence of Big Branch (Basin 10, Stream 8)	40.29	*	*	9360	*	*
At confluence of Basin 10, Stream 10	36.86	*	*	9130	*	*
Approximately 1,150 feet downstream of Wake/Franklin County boundary	14.63	*	*	4620	*	*
Approximately 0.71 mile downstream of the Franklin/Wake County boundary	14.63	*	*	3990	*	*
Little White Oak Creek (Basin 26, Stream 9)						
Approximately 1,060 feet downstream of New Hill Holleman Road	4.30	*	*	1848	3380	*
Approximately 1,060 feet upstream of New Hill Holleman Road	4.10	*	*	1797	3300	*
Approximately 0.7 mile upstream of New Hill Holleman Road	3.70	*	*	1680	3150	*
Approximately 1.0 mile upstream of New Hill Holleman Road	3.50	*	*	1632	3080	*
Approximately 0.6 mile downstream of Friendship Road	3.40	*	*	1596	3030	*
Approximately 0.5 mile downstream of Friendship Road	3.00	*	*	1478	2850	*
Approximately 1,580 feet downstream of Friendship Road	2.90	*	*	1454	2810	*
Approximately 530 feet downstream of Friendship Road	2.80	*	*	1419	2740	*
At confluence with Little White Oak Creek Tributary 2	1.70	*	*	1039	2000	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Little White Oak Creek (Basin 26, Stream 9)						
Just upstream of Deer Path	1.70	*	*	1023	1970	*
Approximately 0.4 mile downstream of Highway 1	1.30	*	*	885	1700	*
Just downstream of Highway 1	1.30	*	*	858	1640	*
Approximately 1,060 feet upstream of Highway 1	1.10	*	*	793	1500	*
Approximately 0.5 mile upstream of Highway 1	0.80	*	*	650	1210	*
Little White Oak Creek Tributary 2						
Approximately 1,580 feet upstream of confluence with Little White Oak Creek	0.50	*	*	464	1010	*
Approximately 530 feet upstream of confluence with Little White Oak Creek	0.50	*	*	478	1030	*
Lizard Lick Creek (Basin 10, Stream 23)						
Hydrologic node located at 35.7947, -78.339	1.79	670	1299	1581	1930	2396
Hydrologic node located at 35.7945, -78.3576	1.04	562	1107	1355	1785	2077
Lower Barton Creek (Basin 17, Stream 1)						
At the confluence of Upper Barton Creek	13.19	2940	4410	4870	4970	6140
Upstream of Six Forks Road	12.36	2800	4220	4670	4750	5900
Approximately 3800 feet upstream of Six Forks Road	11.53	2690	4060	4490	4540	5680
Approximately 1.14 miles upstream of Six Forks Road	10.71	2600	3920	4340	4390	5490
Upstream of Norwood Road	10.38	2560	3870	4280	4320	5400
Approximately 3000 feet upstream of Norwood Road	9.58	2450	3710	4110	4160	5190
Approximately 250 feet downstream of Lower Barton Creek	7.88	2140	3290	3640	3700	4630
Approximately 1800 feet upstream of Mt Vernon Church Road	5.21	1600	2520	2810	2910	3610
Approximately 1300 feet upstream of Countywood North Road	4.70	1510	2380	2660	2740	3410
Upstream of Creedmoor Road	4.21	1410	2230	2490	2570	3210
Downstream of Old Creedmoor Road	4.11	1390	2210	2470	2530	3180
Approximately 225 feet upstream of Old Creedmoor Road	3.33	1230	1970	2200	2230	2840
Approximately 1.0 mile upstream of Old Creedmoor Road	2.74	1110	1790	2000	2010	2580
Approximately 1.05 miles upstream of Old Creedmoor Road	2.14	940	1540	1720	1740	2230
At the confluence with Lower Barton Creek	1.41	730	1210	1360	1370	1770
Downstream of Interstate 540	1.10	590	1000	1130	1150	1490
Upstream of Leslie Drive	0.97	600	1000	1120	1150	1470
Approximately 3000 feet up stream of Leslie Drive	0.48	380	660	740	780	980
Lowery Creek (Basin 4, Stream 10)						
Approximately 3100 feet downstream of Durham Road	5.35	1120	1810	2100	2910	2850
Downstream of Durham Road	4.65	1030	1660	1930	2640	2630
Approximately 900 feet upstream of Durham Road	3.09	870	1420	1660	2270	2260
At the confluence of Lowery Creek	1.45	500	820	970	1300	1330
Approximately 1.11 miles upstream of Durham Road	1.31	470	780	910	1290	1260
Approximately 1200 feet upstream of confluence with Lowery Creek	0.88	370	610	720	980	1000
Lynn Road Tributary (Basin 18, Stream 32)						
Hydrologic node located at 35.8594, -78.662	1.09	824	1383	1689	*	2669
Hydrologic node located at 35.8607, -78.6638	0.79	588	1037	1271	*	2022
Hydrologic node located at 35.8593, -78.67	0.64	543	1098	1349	*	2008

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Lynn Road Tributary (Basin 18, Stream 32)						
Hydrologic node located at 35.8593, -78.6707	0.64	540	1089	1331	*	1978
Hydrologic node located at 35.8599, -78.6731	0.51	531	931	1110	*	1618
Mahlers Creek (Basin 20, Stream 6)						
At the confluence with Swift Creek	4.52	1080	1830	2090	3210	2840
Just upstream of New Bethel Church Road	4.18	1020	1750	1990	3060	2710
Approximately 1000 feet upstream of New Bethel Church Road	2.29	790	1350	1540	2380	2070
Approximately 2100 feet downstream of Timber Drive E	1.23	620	1060	1200	1850	1580
Approximately 2160 feet upstream of Timber Drive E	0.64	520	870	970	1310	1240
Mango Creek (Basin 15, Stream 11)						
Hydrologic node located at 35.7711, -78.5386	4.38	1790	2700	2970	3410	3680
Hydrologic node located at 35.7729, -78.5364	4.20	1760	2650	2910	3350	3610
Hydrologic node located at 35.7772, -78.5251	3.60	1640	2480	2720	3070	3360
Hydrologic node located at 35.7809, -78.5201	2.96	1460	2220	2440	2750	3020
Hydrologic node located at 35.7832, -78.5129	2.42	1310	2000	2190	2430	2720
Hydrologic node located at 35.7849, -78.5071	1.87	1070	1670	1840	2100	2310
Hydrologic node located at 35.7866, -78.503	1.42	880	1400	1560	1790	1960
Hydrologic node located at 35.7876, -78.4989	0.89	690	1110	1230	1380	1560
Hydrologic node located at 35.7906, -78.4919	0.58	530	860	960	1090	1220
Marks Creek						
Hydrologic node located at 35.7257, -78.4216	19.42	2480	3920	4520	7760	6040
Hydrologic node located at 35.7296, -78.4232	18.35	2400	3790	4370	7510	5850
Hydrologic node located at 35.7382, -78.4238	17.35	2310	3660	4230	7290	5660
Hydrologic node located at 35.7397, -78.4242	13.81	2010	3190	3690	6460	4950
Hydrologic node located at 35.752, -78.4296	12.93	1930	3070	3550	6240	4770
Hydrologic node located at 35.759, -78.4325	12.12	1860	2950	3420	6010	4590
Hydrologic node located at 35.7629, -78.4328	11.50	1800	2860	3310	5840	4450
Hydrologic node located at 35.7637, -78.4333	10.51	1700	2710	3140	5570	4220
Hydrologic node located at 35.7691, -78.4373	9.79	1630	2600	3010	5370	4050
Hydrologic node located at 35.7774, -78.4393	9.48	1590	2550	2950	5280	3980
Hydrologic node located at 35.7799, -78.4382	7.28	1350	2170	2520	4620	3410
Hydrologic node located at 35.786, -78.4365	6.97	1320	2120	2460	4510	3320
Hydrologic node located at 35.7872, -78.437	6.70	1290	2070	2400	4430	3250
Hydrologic node located at 35.7888, -78.4389	5.73	1170	1880	2190	4030	2970
Hydrologic node located at 35.7939, -78.4444	2.55	710	1160	1350	2560	1850
Hydrologic node located at 35.8047, -78.4542	1.81	570	940	1100	2050	1520
Marsh Creek (Basin 18, Stream 17)						
Hydrologic node located at 35.7962, -78.595	8.57	2708	4573	5570	*	9147
Hydrologic node located at 35.8002, -78.5907	8.45	2720	4531	5401	*	9180
Hydrologic node located at 35.8057, -78.5913	7.50	2598	4416	5272	*	8883
Hydrologic node located at 35.8125, -78.5925	7.23	2602	4442	5301	*	8988
Hydrologic node located at 35.8162, -78.5928	6.72	2429	4514	5355	*	8816
Hydrologic node located at 35.8173, -78.5931	6.04	2329	4227	4999	*	8150

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Marsh Creek (Basin 18, Stream 17)						
Hydrologic node located at 35.8202, -78.5943	4.55	1868	3092	3600	*	5939
Hydrologic node located at 35.8277, -78.5973	4.04	1996	3007	3462	*	5899
Hydrologic node located at 35.8335, -78.5984	3.75	2034	3118	3578	*	5474
Hydrologic node located at 35.8353, -78.5978	3.25	1523	2517	2976	*	4329
Hydrologic node located at 35.8394, -78.5979	2.04	988	1528	1759	*	2391
Hydrologic node located at 35.8507, -78.5997	1.57	876	1136	1232	*	1490
Hydrologic node located at 35.8528, -78.6009	1.42	820	975	1026	*	1128
Hydrologic node located at 35.8564, -78.607	0.87	1068	1715	1991	*	2767
Medfield Tributary (Basin 18, Stream 39)						
Hydrologic node located at 35.8126, -78.7318	1.27	705	1190	1425	*	2333
Hydrologic node located at 35.8048, -78.735	1.06	745	1404	1667	*	2443
Hydrologic node located at 35.8032, -78.7368	0.88	733	1262	1493	*	2144
Middle Creek						
Hydrologic node located at 35.5774, -78.6505	65.20	4416	7702	9455	12350	14069
Hydrologic node located at 35.5847, -78.6537	64.53	4527	7815	9532	12442	14175
Hydrologic node located at 35.5866, -78.6552	64.05	4596	7880	9609	12545	14301
Hydrologic node located at 35.5914, -78.664	63.26	4693	7905	9635	12582	14346
Hydrologic node located at 35.5918, -78.6667	62.86	4680	7883	9607	12549	14307
Hydrologic node located at 35.5967, -78.6728	61.83	4705	7868	9599	12550	14312
Hydrologic node located at 35.5957, -78.6778	60.70	4683	7812	9531	12457	14210
Hydrologic node located at 35.6067, -78.6796	56.89	4689	7705	9439	12365	14131
Hydrologic node located at 35.6098, -78.6864	56.70	4815	7766	9545	12539	14365
Hydrologic node located at 35.6127, -78.6961	42.79	3079	5119	6269	8084	9324
Hydrologic node located at 35.6222, -78.6994	42.28	3130	5150	6293	8140	9392
Hydrologic node located at 35.6273, -78.707	38.11	2723	4569	5564	7263	8458
Hydrologic node located at 35.6322, -78.7159	37.60	2701	4531	5519	7219	8432
Hydrologic node located at 35.634, -78.7203	36.87	2676	4498	5497	7234	8419
Hydrologic node located at 35.636, -78.7288	35.31	2635	4383	5388	7130	8354
Hydrologic node located at 35.6419, -78.7456	31.96	2468	4023	4962	6676	8117
Hydrologic node located at 35.6436, -78.7508	31.31	2469	4109	4976	6661	8097
Hydrologic node located at 35.6452, -78.754	29.74	2329	3858	4862	6546	7947
Hydrologic node located at 35.6542, -78.7811	21.56	1864	3674	4656	6286	7528
Hydrologic node located at 35.6545, -78.784	19.74	1800	3582	4542	6125	7241
Hydrologic node located at 35.6526, -78.7878	19.69	2248	4417	5558	7470	8817
Hydrologic node located at 35.6124, -78.6958	13.32	2235	4154	5094	6433	7553
Hydrologic node located at 35.6495, -78.7912	8.69	1585	2719	3288	4183	4848
Hydrologic node located at 35.6555, -78.7983	8.30	1588	2734	3313	4228	4908
Hydrologic node located at 35.6612, -78.8042	7.89	1615	2819	3425	4399	5145
Hydrologic node located at 35.664, -78.808	7.57	1601	2798	3401	4370	5108
Hydrologic node located at 35.6641, -78.8107	7.14	1574	2754	3347	4301	5021
Hydrologic node located at 35.6661, -78.8174	6.51	1541	2704	3286	4218	4925
Hydrologic node located at 35.6681, -78.8221	5.43	1452	2556	3108	3984	4643

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Middle Creek						
Hydrologic node located at 35.6792, -78.8241	4.83	1459	2487	3039	3911	4585
Hydrologic node located at 35.6839, -78.8238	3.36	1239	2129	2568	3252	3784
Hydrologic node located at 35.696, -78.8263	2.40	1181	1970	2354	2973	3441
Hydrologic node located at 35.6989, -78.8261	1.68	1088	1755	2068	2549	2886
Hydrologic node located at 35.7064, -78.8282	0.79	480	793	971	1320	1453
Hydrologic node located at 35.7057, -78.8288	0.68	744	1156	1345	1516	1798
Hydrologic node located at 35.7135, -78.8323	0.51	725	1102	1271	1409	1688
Hydrologic node located at 35.7113, -78.8241	0.35	288	483	574	754	801
Millbrook Tributary to Marsh Creek (Basin 18, Stream 19)						
Hydrologic node located at 35.8397, -78.5974	1.11	539	1209	1509	*	2292
Hydrologic node located at 35.8421, -78.5964	1.06	529	1217	1515	*	2297
Hydrologic node located at 35.8444, -78.595	0.94	484	1181	1447	*	2104
Hydrologic node located at 35.8477, -78.5942	0.71	422	1023	1236	*	1750
Hydrologic node located at 35.8513, -78.5943	0.66	742	1138	1304	*	1760
Mills Branch (Basin 22, Stream 5)						
Hydrologic node located at 35.6276, -78.707	3.40	1203	1990	2359	3190	3364
Hydrologic node located at 35.6368, -78.7061	3.20	1215	2052	2449	3308	3457
Hydrologic node located at 35.6369, -78.7062	2.68	930	1506	1772	2433	2455
Hydrologic node located at 35.6404, -78.7071	1.46	695	1355	1658	2259	2416
Hydrologic node located at 35.6565, -78.7099	0.94	564	1036	1255	1657	1838
Hydrologic node located at 35.6606, -78.709	0.56	361	645	780	984	1122
Mine Creek						
Hydrologic node located at 35.8593, -78.6611	7.29	1288	1631	1644	*	7389
Hydrologic node located at 35.8638, -78.6585	7.08	1479	4939	5965	*	14326
Hydrologic node located at 35.867, -78.6558	6.52	3131	5887	6948	*	9788
Hydrologic node located at 35.87, -78.6509	2.49	1494	2092	2254	*	2591
Mine Creek (Basin 18, Stream 31)						
Hydrologic node located at 35.8387, -78.6637	9.94	735	1303	1556	*	2271
Hydrologic node located at 35.8479, -78.6611	9.34	757	1356	1624	*	2402
Hydrologic node located at 35.8531, -78.6639	8.84	443	774	929	*	1375
Hydrologic node located at 35.8556, -78.6611	8.48	156	181	189	*	211
Hydrologic node located at 35.8562, -78.6611	8.47	156	181	189	*	211
Mingo Creek (Basin 12, Stream 2)						
Approximately 0.4 mile upstream of Beaverdam Creek (Basin 12, Stream 1)	0.87	*	*	928	1120	*
Approximately 125 feet upstream of Forrestville Road	0.78	*	*	977	1130	*
Approximately 530 feet downstream of N Smithfield Road	0.45	*	*	848	1290	*
Moccasin Creek						
Approximately 0.4 mile upstream of Franklin/Nash County boundary	27.96	*	*	7470	*	*
Approximately 0.9 mile upstream of Franklin/Nash County boundary	26.57	*	*	7230	*	*
Approximately 0.92 mile upstream of the Franklin/Nash County boundary	26.57	*	*	7230	*	*
Approximately 1,060 feet upstream of NC 97	25.00	*	*	6960	*	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Moccasin Creek						
Approximately 0.22 mile upstream of Highway 97	25.00	*	*	6960	*	*
Approximately 1,060 feet downstream of US Highway 64	15.49	*	*	5160	*	*
Approximately 0.24 mile downstream of U.S. Highway 64	15.49	*	*	5160	*	*
Approximately 0.4 mile upstream of Sheppard School Road	12.16	*	*	4440	*	*
Approximately 0.34 mile upstream of State Road 1770	12.16	*	*	4440	*	*
Approximately 1.04 miles upstream of State Road 1770	11.60	*	*	4310	*	*
Approximately 1.2 miles upstream of Sheppard School Road	11.60	*	*	4310	*	*
Approximately 0.13 mile upstream of Williams-White Road	9.47	*	*	3800	*	*
Approximately 530 feet upstream of Williams-White Road	9.47	*	*	3800	*	*
Confluence with Moccasin Creek Tributary 3	4.19	*	*	2369	*	*
At confluence of Moccasin Creek Tributary 3	4.18	*	*	2369	*	*
Approximately 1,580 feet upstream of Furney Pearce Road	2.94	*	*	1899	*	*
Approximately 0.28 mile upstream of Furney Pearce Road	2.94	*	*	1899	*	*
Approximately 0.72 mile upstream of Henry Baker Road	1.29	*	*	1130	*	*
Approximately 0.7 mile upstream of Henry Baker Road	1.29	*	*	1130	*	*
Morris Branch						
Approximately 0.4 mile upstream of Chatham/Wake County boundary	1.20	707	1300	1630	2210	2490
Just downstream of Green Level to Durham Road	0.80	765	1080	1230	1590	1840
Approximately 0.7 mile upstream of Green Level to Durham Road	0.50	490	772	893	1130	1230
Approximately 975 feet upstream of Howard Road	0.10	155	241	277	319	378
Morrisville Tributary (Basin 18, Stream 26)						
Hydrologic node located at 35.8228, -78.8216	0.82	628	959	1106	1245	1482
Hydrologic node located at 35.8319, -78.8319	0.50	504	733	834	895	1076
Mud Branch (Basin 4, Stream 15)						
At the confluence of Horse Creek	2.27	660	1080	1260	1780	1730
Approximately 1.15 miles upstream of confluence with Horse Creek	1.53	540	970	1110	1450	1540
Nancy Branch						
Just downstream of Yates Store Road	0.90	370	620	730	1300	1010
Neil Branch (Basin 24, Stream 8)						
Just downstream of Angier Road	1.26	680	1160	1320	1560	1800
Just upstream of Spring Avenue	1.02	590	1030	1180	1370	1610
Neil Creek (Basin 24, Stream 7)						
At the confluence with Angier Creek	2.35	1010	1650	1870	2220	2500
At the confluence with Neil Branch	0.92	580	1010	1150	1370	1560
Just upstream of Holland Road	0.59	410	740	850	1070	1190
Neills Creek						
Approximately 1,060 feet upstream of Harnett/Wake County boundary	2.00	*	*	1137	1140	*
Approximately 0.6 mile upstream of Harnett/Wake County boundary	1.80	*	*	1057	1060	*
Approximately 0.9 mile upstream of Harnett/Wake County boundary	1.20	*	*	840	840	*

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Neuse River						
Hydrologic node located at 35.7062, -78.4844	1106.29	10520	16180	19680	47180	34590
Hydrologic node located at 35.7117, -78.4835	1099.41	10440	16000	19500	46660	34150
Hydrologic node located at 35.7243, -78.478	1098.72	10430	15990	19480	46610	34100
Hydrologic node located at 35.7247, -78.4784	1088.72	10310	15730	19230	45870	33460
Hydrologic node located at 35.7254, -78.4855	1088.10	10300	15720	19210	45820	33420
Hydrologic node located at 35.7247, -78.502	1084.88	10260	15630	19130	45590	33210
Hydrologic node located at 35.7305, -78.5142	1079.57	10200	15500	18990	45190	32870
Hydrologic node located at 35.7305, -78.5233	1077.80	10180	15450	18950	45060	32760
Hydrologic node located at 35.7324, -78.5284	1076.73	10170	15420	18920	44980	32690
Hydrologic node located at 35.7333, -78.5292	1075.87	10160	15400	18900	44910	32630
Hydrologic node located at 35.7511, -78.5321	1029.00	9590	14200	17700	41000	29610
Hydrologic node located at 35.7546, -78.5323	1028.65	9590	14190	17690	40970	29590
Hydrologic node located at 35.7582, -78.5338	1027.89	9580	14180	17670	40910	29540
Hydrologic node located at 35.7666, -78.5394	882.53	7870	10520	14020	26890	20340
Hydrologic node located at 35.7711, -78.5387	878.07	7810	10400	13900	26390	20050
Hydrologic node located at 35.7874, -78.5351	877.40	7810	10390	13880	26330	20000
Hydrologic node located at 35.7937, -78.539	876.59	7800	10370	13860	26260	19950
Hydrologic node located at 35.8017, -78.5381	874.77	7770	10320	13820	26000	19830
Hydrologic node located at 35.8049, -78.538	873.30	7760	10280	13780	25820	19730
Hydrologic node located at 35.8146, -78.5359	865.47	7660	10070	13570	24940	19220
Hydrologic node located at 35.8278, -78.5393	863.61	7640	10030	13520	24810	19100
Hydrologic node located at 35.8304, -78.5362	860.58	7600	9950	13450	24480	18900
Hydrologic node located at 35.834, -78.5306	858.67	7580	9900	13400	24320	18770
Hydrologic node located at 35.8482, -78.5297	857.95	7570	9880	13380	24260	18720
Hydrologic node located at 35.8492, -78.5295	856.77	7550	9850	13350	24080	18650
Hydrologic node located at 35.8573, -78.5285	837.65	7320	9350	12850	22260	17390
Hydrologic node located at 35.8663, -78.5306	837.03	7310	9330	12830	22210	17350
Hydrologic node located at 35.871, -78.5356	836.51	7300	9320	12820	22130	17310
Hydrologic node located at 35.8792, -78.528	834.68	7280	9270	12770	21940	17190
Hydrologic node located at 35.8844, -78.528	834.51	7280	9260	12760	21920	17180
Hydrologic node located at 35.8852, -78.5288	833.98	7270	9250	12750	21850	17150
Hydrologic node located at 35.8838, -78.5411	821.90	7130	8930	12430	19910	16350
Hydrologic node located at 35.8886, -78.5367	821.33	7120	8920	12420	19770	16310
Hydrologic node located at 35.9045, -78.5355	815.93	7050	8780	12280	19180	15960
Hydrologic node located at 35.909, -78.5393	792.34	6760	8160	11660	16300	14400
Hydrologic node located at 35.9055, -78.543	791.96	6760	8150	11650	16220	14380
Hydrologic node located at 35.9088, -78.5549	791.27	6750	8130	11630	16030	14330
Hydrologic node located at 35.9158, -78.5592	787.82	6710	8040	11540	15170	14110
Hydrologic node located at 35.9322, -78.5588	772.98	6530	7660	11160	11360	13130
Hydrologic node located at 35.9345, -78.5687	772.12	6520	7630	11130	11130	13070
Hydrologic node located at 35.9367, -78.5712	771.37	6510	7610	11110	11110	13020
Upstream of Falls of Neuse Road	770.85	24050	35680	40250	68810	51680
Hydrologic node located at 35.9125, -78.5603	2.63	1020	1670	1870	2770	2440

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Neuse River						
Hydrologic node located at 35.8049, -78.5389	1.40	860	1380	1530	1770	1930
Hydrologic node located at 35.8015, -78.5378	1.34	780	1270	1410	1900	1810
Hydrologic node located at 35.8277, -78.5398	1.18	610	1040	1170	1300	1550
Hydrologic node located at 35.8075, -78.5446	1.11	750	1210	1340	1520	1710
Hydrologic node located at 35.9126, -78.5685	1.03	710	1150	1270	1370	1620
Hydrologic node located at 35.8277, -78.5519	0.77	480	820	930	1090	1230
Hydrologic node located at 35.8111, -78.5474	0.70	550	920	1020	1130	1310
Hydrologic node located at 35.8263, -78.5548	0.61	420	730	820	990	1090
Hydrologic node located at 35.9123, -78.5686	0.56	390	690	780	1150	1040
Hydrologic node located at 35.916, -78.56	0.50	480	790	880	920	1120
Hydrologic node located at 35.8148, -78.5474	0.48	450	750	830	830	1070
Hydrologic node located at 35.9181, -78.5747	0.46	430	720	810	820	1040
Hydrologic node located at 35.8034, -78.5177	0.45	480	780	870	1100	1100
Hydrologic node located at 35.9177, -78.5751	0.36	350	600	680	750	880
New Light Creek						
At the confluence of Falls Lake	22.05	2680	4230	4870	6480	6510
Approximately 3400 feet upstream of Falls Lake	21.16	2620	4130	4760	6350	6350
Approximately 625 feet downstream of Purnell Road	19.45	2480	3920	4520	6200	6050
Approximately 1400 feet downstream of Woodlief Road	17.33	2310	3660	4220	5840	5650
Approximately 600 feet upstream of Woodlief Road	13.94	2020	3210	3710	5160	4980
Approximately 1100 feet downstream Mangum Dairy Road	13.34	1970	3130	3620	5060	4850
Upstream of Mangum Dairy Road	12.32	1870	2980	3450	4840	4630
Norris Branch						
Hydrologic node located at 35.6146, -78.9035	1.70	931	1546	1848	2215	2615
Hydrologic node located at 35.625, -78.883	1.24	951	1553	1842	2165	2582
Hydrologic node located at 35.6312, -78.8788	0.83	824	1313	1536	1734	2116
Hydrologic node located at 35.636, -78.8722	0.54	646	1034	1211	1339	1651
Panther Branch (Basin 22, Stream 2)						
Hydrologic node located at 35.6077, -78.679	3.51	1203	1921	2276	2715	3131
Hydrologic node located at 35.6118, -78.68	3.19	1157	1856	2192	2580	2950
Hydrologic node located at 35.6198, -78.6821	2.47	924	1467	1782	2500	2706
Hydrologic node located at 35.6281, -78.6824	2.06	841	1408	1705	2413	2591
Hydrologic node located at 35.6378, -78.6824	1.56	742	1305	1544	2222	2369
Hydrologic node located at 35.6442, -78.684	1.06	483	965	1189	1638	1732
Hydrologic node located at 35.6488, -78.6801	0.51	219	451	565	834	864
Panther Creek						
Just upstream of Green Level Church Road	3.65	700	1150	1340	2230	1830
Hydrologic node located at 35.8219, -78.9175	3.65	290	750	900	1010	1430
Hydrologic node located at 35.8175, -78.9122	3.27	970	1630	1850	2800	2490
Just upstream of Green Level Church Road	2.51	700	1150	1340	2230	1830
Approximately 700 feet downstream of Triange Expressway	1.55	520	860	1010	1690	1380
Approximately 700 feet upstream of Triange Expressway	0.81	350	580	690	1280	950

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Perry Creek (Basin 10, Stream 19)						
At confluence with Little River (Basin 10, Stream 1)	6.44	*	*	2390	*	*
Approximately 0.4 mile upstream of Barham Siding Road	5.59	*	*	2180	*	*
Approximately 1,580 feet upstream of Zebulon Road/Highway 96	4.71	*	*	1960	*	*
Approximately 1,060 feet downstream of Louisburg Road/Highway 401	3.71	*	*	1690	*	*
Approximately 0.5 mile upstream of Louisburg Road/Highway 401	2.72	*	*	1390	*	*
Approximately 0.9 mile upstream of Louisburg Road/Highway 401	1.75	*	*	1060	1769	*
Approximately 1.6 miles upstream of Louisburg Road/Highway 401	1.01	*	*	751	1576	*
Perry Creek (Basin 15, Stream 26)						
Hydrologic node located at 35.8838, -78.5417	11.72	3280	5657	6746	*	9764
Hydrologic node located at 35.8782, -78.5506	7.13	1365	2423	2896	*	4292
Hydrologic node located at 35.8768, -78.5527	5.95	1408	2392	2832	*	4032
Hydrologic node located at 35.8758, -78.5691	5.43	1608	2678	3145	*	4460
Hydrologic node located at 35.8778, -78.5726	3.91	491	956	1153	*	1895
Hydrologic node located at 35.8798, -78.5753	3.75	929	1689	1840	*	4684
Hydrologic node located at 35.8797, -78.5828	3.25	1020	1711	2191	*	3226
Hydrologic node located at 35.8795, -78.5885	3.01	1016	1778	2106	*	2954
Hydrologic node located at 35.8762, -78.593	2.77	860	1548	1853	*	2736
Hydrologic node located at 35.8758, -78.6014	1.70	183	385	458	*	1912
Hydrologic node located at 35.8778, -78.6016	1.68	199	671	1504	*	2838
Hydrologic node located at 35.8799, -78.6041	1.55	551	1135	1401	*	2142
Hydrologic node located at 35.8835, -78.612	1.02	358	499	543	*	1618
Hydrologic node located at 35.8843, -78.6139	0.93	606	1060	1262	*	2314
Hydrologic node located at 35.8843, -78.6157	0.44	397	700	832	*	1208
Perry Creek East Branch (Basin 15, Stream 27)						
Hydrologic node located at 35.8765, -78.5527	1.12	641	1022	1386	*	2253
Hydrologic node located at 35.874, -78.5523	1.01	593	940	1349	*	2135
Hydrologic node located at 35.8685, -78.553	0.78	584	1027	1226	*	1788
Hydrologic node located at 35.8669, -78.5578	0.41	219	380	458	*	965
Hydrologic node located at 35.863, -78.5598	0.24	30	223	387	*	802
Hydrologic node located at 35.8623, -78.5606	0.23	272	499	600	*	889
Pigeon House Branch (Basin 18, Stream 27)						
Hydrologic node located at 35.8043, -78.609	4.53	2957	4574	5161	*	6870
Hydrologic node located at 35.8061, -78.6152	4.31	2937	4525	5097	*	6956
Hydrologic node located at 35.8016, -78.6235	2.89	2386	3583	4038	*	5609
Hydrologic node located at 35.8011, -78.6302	2.57	2509	4414	4747	*	6782
Hydrologic node located at 35.7995, -78.6351	2.29	2353	3900	4616	*	6509
Hydrologic node located at 35.7973, -78.6399	2.15	2268	3757	4416	*	6218
Hydrologic node located at 35.7958, -78.6414	1.20	1264	2147	2535	*	3649
Hydrologic node located at 35.7936, -78.6428	1.05	1173	1985	2337	*	3325
Poplar Branch (Basin 13, Stream 2)						
Hydrologic node located at 35.7711, -78.4751	0.88	605	991	1207	1579	1789

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Poplar Branch (Basin 13, Stream 2)						
Hydrologic node located at 35.7748, -78.4819	0.48	391	670	801	981	1128
Poplar Creek (Basin 13, Stream 1)						
Hydrologic node located at 35.7247, -78.4779	9.06	1892	3465	4319	6063	6810
Hydrologic node located at 35.7315, -78.4769	8.64	1866	3400	4256	5991	6711
Hydrologic node located at 35.7328, -78.4725	7.94	1784	3319	4155	5839	6504
Hydrologic node located at 35.7385, -78.47	7.33	1761	3258	4057	5646	6255
Hydrologic node located at 35.7396, -78.4698	6.34	1677	3072	3810	5254	5784
Hydrologic node located at 35.7487, -78.4658	5.59	1676	3032	3738	5113	5642
Hydrologic node located at 35.7497, -78.466	4.73	1567	2778	3399	4577	5025
Hydrologic node located at 35.7574, -78.4685	4.27	1561	2744	3352	4510	4948
Hydrologic node located at 35.7611, -78.4708	3.42	1430	2481	3018	4048	4380
Hydrologic node located at 35.7661, -78.4736	2.95	1396	2393	2911	3904	4209
Hydrologic node located at 35.7709, -78.4748	1.54	827	1408	1694	2260	2402
Hydrologic node located at 35.7738, -78.4736	1.37	805	1378	1651	2189	2335
Hydrologic node located at 35.7812, -78.4717	0.90	626	1040	1232	1499	1710
Powell Creek (Basin 8, Stream 7)						
Hydrologic node located at 35.8577, -78.5277	18.84	2023	4075	5335	*	10171
Hydrologic node located at 35.8578, -78.5166	10.07	744	2266	3153	*	6273
Hydrologic node located at 35.8679, -78.5088	9.32	718	2226	3100	*	6274
Hydrologic node located at 35.8718, -78.5044	8.98	704	2207	3073	*	6272
Hydrologic node located at 35.8721, -78.503	8.95	1730	5482	6992	*	10874
Hydrologic node located at 35.8769, -78.494	6.99	1612	4211	5367	*	8652
Hydrologic node located at 35.8796, -78.4918	6.90	1626	4219	5382	*	8670
Hydrologic node located at 35.8798, -78.4917	6.72	2415	5043	5972	*	8964
Hydrologic node located at 35.8844, -78.4871	6.58	1270	2050	2380	4090	3210
Hydrologic node located at 35.8845, -78.4851	5.23	1100	1780	2070	3630	2810
Hydrologic node located at 35.8853, -78.4781	4.90	1060	1720	2000	3510	2710
Hydrologic node located at 35.8863, -78.4761	4.23	970	1570	1830	3250	2490
Hydrologic node located at 35.8912, -78.4726	3.00	780	1280	1490	2550	2030
Hydrologic node located at 35.8941, -78.4623	2.51	700	1150	1340	2320	1830
Hydrologic node located at 35.8957, -78.4604	1.65	540	890	1040	1880	1440
Hydrologic node located at 35.9005, -78.46	1.28	460	770	900	1680	1240
Hydrologic node located at 35.8913, -78.473	1.09	550	950	1080	1610	1440
Hydrologic node located at 35.9072, -78.4703	0.47	400	680	770	1080	1000
Hydrologic node located at 35.9093, -78.4608	0.41	230	440	520	710	730
Reedy Branch (Basin 27, Stream 5)						
At confluence with Beaver Creek	4.10	1520	2550	3020	3340	4430
Approximately 1,580 feet upstream of Olive Chapel Road	3.00	1450	2430	2880	3170	4180
Just upstream of confluence with Reedy Branch Tributary (Basin 27, Stream 6)	1.00	656	1120	1350	1490	1970
Approximately 3,450 feet upstream of confluence with Reedy Branch Tributary (Basin 27, Stream 6)	0.90	570	1030	1240	1360	1810

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Reedy Branch Tributary (Basin 27, Stream 6)						
At confluence with Reedy Branch (Basin 27, Stream 5)	1.50	864	1430	1690	1870	2380
Approximately 0.5 mile downstream of Kelly Road	1.10	819	1320	1540	1700	2140
Reedy Creek (Basin 20, Stream 11)						
Hydrologic node located at 35.6751, -78.6317	2.13	1060	1680	1870	2060	2370
Hydrologic node located at 35.6795, -78.6293	1.14	730	1190	1320	1430	1690
Hydrologic node located at 35.6871, -78.6308	0.97	720	1150	1280	1360	1610
Hydrologic node located at 35.7015, -78.6248	0.52	550	880	970	1000	1220
Reedy Creek (Basin 6, Stream 8)						
Hydrologic node located at 35.9356, -78.4943	1.52	550	990	1130	1740	1560
Hydrologic node located at 35.9377, -78.4842	1.17	440	730	850	1430	1170
Reedy Creek Tributary (Basin 20, Stream 9)						
Hydrologic node located at 35.6794, -78.6292	0.91	610	1010	1130	1260	1460
Hydrologic node located at 35.6858, -78.6243	0.60	500	840	940	1000	1200
Hydrologic node located at 35.688, -78.6231	0.53	470	790	880	930	1130
Richland Creek						
Hydrologic node located at 35.9324, -78.5572	14.02	2547	4769	5812	*	8970
Hydrologic node located at 35.9387, -78.5527	13.55	2574	4796	5832	*	9017
Hydrologic node located at 35.9502, -78.5511	12.27	2560	4736	5781	*	8978
Hydrologic node located at 35.9601, -78.5436	10.40	2466	4584	5623	*	8808
Approximately 530 feet upstream of West South Avenue	8.15	*	*	4700	4700	*
Approximately 0.6 mile downstream of confluence of Basal Creek	7.28	*	*	4560	*	*
At confluence of Basal Creek	6.65	*	*	4560	*	*
Approximately 50 feet downstream of West Oak Avenue	6.07	*	*	4460	*	*
Approximately 1,580 feet upstream of West Oak Avenue	5.10	*	*	4170	4170	*
Approximately 0.24 mile downstream of the Franklin/Wake County boundary	4.16	*	*	1820	*	*
Approximately 1,060 feet downstream of Wake/Franklin County Line	4.11	*	*	3600	3600	*
Richland Creek (Basin 18, Stream 3)						
Hydrologic node located at 35.8448, -78.7211	6.86	596	1142	1391	*	2191
Hydrologic node located at 35.8413, -78.719	6.74	609	1176	1433	*	2168
Hydrologic node located at 35.8344, -78.7196	6.39	556	1084	1327	*	2036
Hydrologic node located at 35.8328, -78.7246	5.43	212	423	487	*	622
Hydrologic node located at 35.8302, -78.7262	5.36	212	423	487	*	622
Hydrologic node located at 35.8294, -78.7262	5.36	344	892	1060	*	1295
Hydrologic node located at 35.8255, -78.7302	5.06	476	1131	1230	*	1767
Hydrologic node located at 35.8251, -78.7302	5.05	885	1242	1279	*	5523
Hydrologic node located at 35.8167, -78.7339	4.22	1934	3295	3810	*	5515
Hydrologic node located at 35.8144, -78.7323	2.62	1159	1978	2221	*	2879
Hydrologic node located at 35.8092, -78.7257	1.49	904	1412	1596	*	2027
Hydrologic node located at 35.8055, -78.7266	1.43	1029	1863	2209	*	2834
Hydrologic node located at 35.8019, -78.7261	1.14	927	1696	2038	*	3030

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Richland Creek Tributary						
Hydrologic node located at 35.9601, -78.5445	0.68	749	1189	1363	*	1858
Approximately 0.5 mile upstream of confluence with Richland Creek (Basin 5, Stream 1)	0.45	*	*	1370	1370	*
Approximately 0.5 mile upstream of confluence with Richland Creek (Basin 5, Stream 1)	0.45	*	*	1190	*	*
Approximately 0.8 mile upstream of confluence with Richland Creek (Basin 5, Stream 1)	0.40	*	*	1160	1310	*
Approximately 1.1 miles upstream of confluence with Richland Creek (Basin 5, Stream 1)	0.20	*	*	672	741	*
Rocky Branch (Basin 22, Stream 8)						
Hydrologic node located at 35.6547, -78.7807	1.95	725	1049	1290	1729	1972
Hydrologic node located at 35.6638, -78.7841	1.56	599	1049	1287	1576	1937
Hydrologic node located at 35.6756, -78.7896	0.86	533	934	1125	1303	1617
Hydrologic node located at 35.6812, -78.7893	0.65	518	897	1074	1231	1522
Rocky Branch (Basin 30, Stream 5)						
Hydrologic node located at 35.7574, -78.6384	3.15	2017	2883	3206	*	3971
Hydrologic node located at 35.7584, -78.6396	3.10	2008	2871	3193	*	3956
Hydrologic node located at 35.763, -78.643	2.90	2156	3111	3617	*	4319
Hydrologic node located at 35.7657, -78.6429	2.73	2097	3032	3532	*	4210
Hydrologic node located at 35.7663, -78.6436	2.52	1986	2889	3368	*	4018
Hydrologic node located at 35.7673, -78.6466	2.47	1977	2876	3352	*	3999
Hydrologic node located at 35.77, -78.6486	2.11	1808	2793	3209	*	3992
Hydrologic node located at 35.7733, -78.656	1.94	1742	2685	3084	*	3836
Hydrologic node located at 35.7749, -78.656	1.77	1601	2431	2780	*	3435
Hydrologic node located at 35.7773, -78.6626	1.46	1511	2278	2603	*	3215
Hydrologic node located at 35.7802, -78.6667	1.19	1424	2154	2460	*	3033
Hydrologic node located at 35.7819, -78.6711	0.93	1257	1910	2180	*	2681
Hydrologic node located at 35.7832, -78.6743	0.63	824	1265	1446	*	1759
Hydrologic node located at 35.7852, -78.6789	0.50	740	1125	1281	*	1556
Hydrologic node located at 35.7895, -78.6852	0.35	514	770	877	*	1078
Hydrologic node located at 35.7903, -78.6867	0.26	313	467	612	*	807
Hydrologic node located at 35.7946, -78.6903	0.16	361	562	647	*	906
Rocky Ford Branch (Basin 24, Stream 5)						
Hydrologic node located at 35.5665, -78.8135	1.29	200	360	440	1450	640
Hydrologic node located at 35.5691, -78.8246	0.98	170	300	380	1290	540
Sanford Creek (Basin 6, Stream 7)						
Hydrologic node located at 35.9374, -78.516	5.90	1360	2250	2560	3830	3410
Hydrologic node located at 35.9378, -78.5073	5.44	1240	2080	2370	3630	3190
Hydrologic node located at 35.9362, -78.4973	4.92	1140	1930	2210	3410	2980
Hydrologic node located at 35.9354, -78.4944	2.96	990	1730	1980	3080	2710
Hydrologic node located at 35.9335, -78.4907	1.36	480	790	930	1410	1280
Smith Creek						
Hydrologic node located at 35.9093, -78.5386	23.46	3940	5840	6460	8840	8170

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Smith Creek						
Hydrologic node located at 35.9186, -78.5344	22.90	3860	5740	6350	8720	8040
Hydrologic node located at 35.9244, -78.5316	21.68	3590	5400	6000	8360	7640
Hydrologic node located at 35.9291, -78.5278	21.41	3580	5370	5970	8310	7600
Hydrologic node located at 35.9319, -78.5246	20.80	3470	5230	5820	8190	7430
Hydrologic node located at 35.9376, -78.5163	14.41	2820	4300	4790	6650	6130
Hydrologic node located at 35.9431, -78.5126	13.86	2760	4220	4700	6500	6010
Hydrologic node located at 35.9446, -78.5114	13.41	2650	4070	4540	6320	5830
Hydrologic node located at 35.9493, -78.5085	12.70	2490	3860	4320	6080	5580
Hydrologic node located at 35.9509, -78.5063	8.69	1910	3060	3530	5790	4730
Hydrologic node located at 35.9586, -78.4929	8.24	1850	2970	3440	5760	4640
Hydrologic node located at 35.9606, -78.4886	3.61	880	1430	1660	2560	2260
Hydrologic node located at 35.9692, -78.4888	3.36	840	1370	1590	2380	2170
Hydrologic node located at 35.9829, -78.4757	2.41	680	1120	1310	1970	1790
Hydrologic node located at 35.9871, -78.4731	1.73	560	920	1080	1730	1480
Hydrologic node located at 35.9939, -78.469	1.28	460	770	900	1550	1240
Hydrologic node located at 35.9245, -78.5323	0.81	670	1080	1190	1430	1490
Southeast Prong Beaverdam Creek (Basin 18, Stream 30)						
Hydrologic node located at 35.8165, -78.6608	1.17	849	1435	1658	*	2121
Hydrologic node located at 35.8113, -78.6634	1.05	930	1639	1899	*	2629
Hydrologic node located at 35.8093, -78.6643	0.80	706	1179	1360	*	1874
Hydrologic node located at 35.806, -78.6655	0.66	621	988	1079	*	1717
Hydrologic node located at 35.8037, -78.6654	0.58	578	942	1091	*	1908
Hydrologic node located at 35.8013, -78.6658	0.53	605	1082	1297	*	1911
Southwest Prong Beaverdam Creek (Basin 18, Stream 29)						
Hydrologic node located at 35.8162, -78.6613	1.87	1292	2029	2360	*	4105
Hydrologic node located at 35.8159, -78.6634	1.82	1282	2042	2360	*	4327
Hydrologic node located at 35.8152, -78.6686	1.33	901	1738	2110	*	3603
Hydrologic node located at 35.8121, -78.6727	1.19	862	1624	1977	*	3543
Hydrologic node located at 35.8097, -78.6736	0.91	750	1383	1634	*	3090
Hydrologic node located at 35.8054, -78.6743	0.79	730	1361	1621	*	2843
Hydrologic node located at 35.8036, -78.6753	0.59	638	1016	1188	*	2496
Hydrologic node located at 35.8022, -78.6766	0.43	509	891	1058	*	1531
Spring Branch (Basin 6, Stream 6)						
Hydrologic node located at 35.959, -78.5037	1.22	860	1350	1490	1620	1870
Hydrologic node located at 35.9658, -78.5083	0.85	730	1160	1270	1340	1580
Hydrologic node located at 35.9751, -78.5063	0.39	440	730	810	840	1020
Stirrup Iron Creek						
Hydrologic node located at 35.8444, -78.8062	12.21	696	1022	1170	1385	1791
Hydrologic node located at 35.8547, -78.8187	9.23	568	831	929	1008	1577
Hydrologic node located at 35.8675, -78.8246	8.78	2518	3818	4413	5271	5930
Hydrologic node located at 35.8753, -78.8286	8.11	2427	3671	4236	5009	5663

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Swift Creek						
Hydrologic node located at 35.6264, -78.579	77.71	5730	8850	10140	17220	13350
Hydrologic node located at 35.6286, -78.5865	77.26	5710	8810	10100	17160	13310
Hydrologic node located at 35.6295, -78.5873	76.58	5700	8800	10080	17140	13280
Hydrologic node located at 35.6334, -78.5938	76.12	5680	8770	10040	17080	13230
Hydrologic node located at 35.6357, -78.595	75.50	5650	8720	9990	17000	13160
Hydrologic node located at 35.6396, -78.6004	74.81	5620	8670	9940	16910	13100
Hydrologic node located at 35.6437, -78.6014	74.17	5590	8630	9890	16830	13030
Hydrologic node located at 35.6465, -78.6036	73.69	5560	8600	9850	16750	12980
Hydrologic node located at 35.6525, -78.6096	71.13	5490	8470	9710	16410	12790
Hydrologic node located at 35.6587, -78.6072	66.35	5250	8120	9310	15740	12280
Hydrologic node located at 35.6677, -78.6325	56.85	4800	7440	8540	14440	11270
Hydrologic node located at 35.677, -78.6447	55.99	4760	7370	8460	14280	11170
Hydrologic node located at 35.6823, -78.6537	41.66	1306	3590	4549	4886	7334
Hydrologic node located at 35.6796, -78.6656	39.06	1308	3599	4559	4896	7305
Hydrologic node located at 35.6827, -78.6729	38.45	1312	3614	4575	4912	7315
Hydrologic node located at 35.6886, -78.6813	36.77	1313	3623	4583	4919	7268
Hydrologic node located at 35.6928, -78.6921	35.79	1313	3651	4609	4945	7245
Hydrologic node located at 35.7056, -78.7309	24.63	3882	7302	9271	9867	13804
Hydrologic node located at 35.714, -78.7372	22.49	3840	7496	9373	9890	13661
Hydrologic node located at 35.7161, -78.7475	21.38	3851	7695	9416	9900	13599
Hydrologic node located at 35.6912, -78.685	1.14	357	774	972	1151	1559
Swift Creek Tributary No. 7 (Basin 20, Stream 24)						
Hydrologic node located at 35.7308, -78.7909	4.80	1624	3149	3818	4005	5800
Hydrologic node located at 35.7442, -78.7959	3.24	1463	2452	2948	3102	4599
Hydrologic node located at 35.7517, -78.7937	2.69	1333	2443	2911	3037	4389
Hydrologic node located at 35.7611, -78.798	1.74	1177	1999	2368	2473	3694
Hydrologic node located at 35.7718, -78.7976	1.02	908	1603	1908	1993	2774
Swift Creek Tributary No. 7A (Basin 20, Stream 25)						
Hydrologic node located at 35.7421, -78.7951	4.33	1662	3166	3751	3945	5797
Hydrologic node located at 35.7442, -78.7964	0.94	607	1088	1303	1355	1916
Sycamore Creek (Basin 18, Stream 6)						
Hydrologic node located at 35.8468, -78.7259	11.62	1402	2406	2834	*	4192
Hydrologic node located at 35.8499, -78.726	11.53	1403	2405	2832	*	4191
Hydrologic node located at 35.8576, -78.7365	11.03	1392	2389	2808	*	4158
Hydrologic node located at 35.8572, -78.7398	10.53	1376	2362	2774	*	4105
Hydrologic node located at 35.8535, -78.7459	10.20	1366	2345	2752	*	4072
Hydrologic node located at 35.8603, -78.7527	9.66	1353	2321	2720	*	4019
Hydrologic node located at 35.8629, -78.7524	9.62	1352	2319	2717	*	4015
Hydrologic node located at 35.8685, -78.7586	7.51	1347	2225	2575	*	3835
Hydrologic node located at 35.8692, -78.7608	7.28	1341	2213	2558	*	3810
Hydrologic node located at 35.8696, -78.7622	7.27	1341	2212	2557	*	3811
Hydrologic node located at 35.8791, -78.7698	5.85	2015	3438	4038	*	5652

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Sycamore Creek (Basin 18, Stream 6)						
Hydrologic node located at 35.8837, -78.7698	5.54	2039	3631	4155	*	5648
Hydrologic node located at 35.8959, -78.7677	2.82	1269	1969	2214	*	2947
Hydrologic node located at 35.9002, -78.7661	2.55	1205	1908	2154	*	2784
Hydrologic node located at 35.9075, -78.764	2.27	1202	1897	2185	*	2736
Hydrologic node located at 35.9108, -78.7623	1.83	1114	1924	2213	*	2763
Hydrologic node located at 35.916, -78.7595	1.66	1107	2041	2524	*	3893
Hydrologic node located at 35.9193, -78.7586	1.17	972	1782	2212	*	3301
Hydrologic node located at 35.9244, -78.7562	0.94	972	1720	2050	*	3018
Hydrologic node located at 35.9263, -78.7544	0.75	860	1482	1763	*	2542
Hydrologic node located at 35.9277, -78.7536	0.34	383	645	764	*	1114
Hydrologic node located at 35.9314, -78.7512	0.25	344	603	720	*	1024
Hydrologic node located at 35.9334, -78.7494	0.07	110	189	223	*	319
Terrible Creek (Basin 22, Stream 19)						
Hydrologic node located at 35.6108, -78.7062	12.88	2278	4224	5175	6524	7635
Hydrologic node located at 35.6106, -78.7069	11.95	2221	4109	5023	6276	7364
Hydrologic node located at 35.6146, -78.7161	11.32	2414	4424	5411	6807	7902
Hydrologic node located at 35.6136, -78.7259	8.60	1637	2732	3266	4317	4967
Hydrologic node located at 35.6162, -78.7361	7.85	1298	2425	3063	4251	4883
Hydrologic node located at 35.6155, -78.737	7.00	1059	2318	2933	4099	4677
Hydrologic node located at 35.616, -78.7524	6.30	1025	2284	2889	4050	4565
Hydrologic node located at 35.6143, -78.7546	5.83	986	2215	2802	3928	4421
Hydrologic node located at 35.6132, -78.7548	4.93	1313	2441	3074	4328	4860
Hydrologic node located at 35.6103, -78.7607	4.31	1193	2287	2898	4104	4539
Hydrologic node located at 35.6068, -78.7658	3.82	1161	2246	2835	4055	4473
Hydrologic node located at 35.6072, -78.7742	3.15	1067	2133	2708	3840	4231
Hydrologic node located at 35.6056, -78.7777	2.22	831	1653	2057	2901	3146
Hydrologic node located at 35.6049, -78.7796	1.16	590	1089	1330	1687	1947
Hydrologic node located at 35.603, -78.7823	0.57	355	614	736	831	1046
Hydrologic node located at 35.6032, -78.7822	0.25	130	244	298	367	440
Toms Creek (Basin 7, Stream 1)						
Hydrologic node located at 35.9048, -78.5351	4.67	1250	2060	2330	3280	3090
Hydrologic node located at 35.9062, -78.5292	3.25	1040	1730	1950	2640	2580
Hydrologic node located at 35.9104, -78.5241	2.85	910	1540	1750	2450	2340
Hydrologic node located at 35.9132, -78.5155	2.43	780	1340	1530	2250	2070
Hydrologic node located at 35.9156, -78.5062	1.66	540	900	1050	1740	1440
Hydrologic node located at 35.9057, -78.5287	1.20	480	860	990	1490	1360
Hydrologic node located at 35.9125, -78.4968	0.99	400	740	850	1290	1190
Hydrologic node located at 35.9046, -78.5199	0.98	410	750	870	1340	1210
Tributary to Big Branch Tributary No. 1 (Basin 30, Stream 8)						
Hydrologic node located at 35.7271, -78.6022	0.76	489	866	1035	1207	1515
Hydrologic node located at 35.7209, -78.6057	0.54	435	761	915	1032	1303

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Turkey Creek (Basin 18, Stream 23)						
Hydrologic node located at 35.8016, -78.8341	1.62	1259	2062	2420	2731	3324
Hydrologic node located at 35.7952, -78.8387	0.89	828	1281	1486	1627	1992
Turkey Creek (Basin 18, Stream 5)						
Hydrologic node located at 35.8471, -78.7258	4.64	1661	2579	2993	*	4307
Hydrologic node located at 35.8562, -78.7228	4.24	1639	2566	3012	*	4310
Hydrologic node located at 35.8618, -78.7252	1.98	473	848	1012	*	1471
Hydrologic node located at 35.8683, -78.7315	1.68	392	595	674	*	1236
Hydrologic node located at 35.8688, -78.7318	1.68	391	595	673	*	1235
Hydrologic node located at 35.877, -78.7326	1.11	279	561	693	*	1063
Hydrologic node located at 35.8783, -78.7326	1.07	274	557	687	*	1092
Hydrologic node located at 35.8792, -78.7327	1.07	273	554	687	*	1092
Hydrologic node located at 35.8871, -78.7327	0.59	319	620	783	*	1243
Hydrologic node located at 35.8915, -78.7345	0.34	184	359	440	*	725
Hydrologic node located at 35.8922, -78.7344	0.32	178	344	421	*	675
Hydrologic node located at 35.8957, -78.7336	0.09	137	233	275	*	393
Turkey Creek Tributary						
Hydrologic node located at 35.7955, -78.8386	0.61	696	1109	1294	1447	1735
Hydrologic node located at 35.7965, -78.8436	0.44	582	883	1020	1141	1352
Unnamed Stream						
Hydrologic node located at 35.6472, -78.7603	27.91	2221	3792	4776	6439	7805
Hydrologic node located at 35.8684, -78.6997	3.95	255	415	478	*	619
Hydrologic node located at 35.8713, -78.6973	3.88	141	206	228	*	269
Hydrologic node located at 35.8721, -78.697	3.86	136	149	156	*	172
Hydrologic node located at 35.8725, -78.697	3.85	136	144	146	*	153
Hydrologic node located at 35.8708, -78.6519	3.60	2116	4074	4921	*	7062
Hydrologic node located at 35.6207, -78.8177	3.01	1001	1942	2458	3429	3828
Hydrologic node located at 35.8745, -78.6555	2.86	2030	3819	4628	*	6353
Hydrologic node located at 35.7938, -78.4439	2.44	690	1130	1320	2390	1800
Hydrologic node located at 35.8766, -78.6646	2.39	1972	3600	4324	*	5778
Hydrologic node located at 35.878, -78.6642	2.37	1964	3603	4318	*	5783
Hydrologic node located at 35.8851, -78.7006	2.26	2218	3610	4205	*	5903
Hydrologic node located at 35.6521, -78.6099	2.17	490	820	980	2010	1360
Hydrologic node located at 35.7137, -78.6667	2.12	1100	1730	1910	2190	2420
Hydrologic node located at 35.6789, -78.6653	2.07	420	863	1083	1397	1755
Hydrologic node located at 35.5956, -78.8724	1.97	620	1451	1880	3051	3012
Hydrologic node located at 35.7693, -78.689	1.92	2076	2970	3357	*	4074
Hydrologic node located at 35.6674, -78.6291	1.91	480	800	950	1550	1320
Hydrologic node located at 35.5858, -78.8828	1.90	653	1272	1512	2384	2428
Hydrologic node located at 35.6909, -78.7064	1.80	351	712	880	990	1375
Hydrologic node located at 35.6148, -78.8208	1.70	691	1161	1468	1977	2247
Hydrologic node located at 35.7194, -78.7524	1.69	616	1100	1223	1238	1458
Hydrologic node located at 35.7608, -78.6041	1.58	1300	1925	2215	*	2584

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Unnamed Stream						
Hydrologic node located at 35.6493, -78.6211	1.45	350	590	710	1520	1000
Hydrologic node located at 35.891, -78.7007	1.42	1523	2478	2886	*	4119
Hydrologic node located at 35.5902, -78.9042	1.40	468	1060	1351	2571	2209
Hydrologic node located at 35.757, -78.6059	1.39	1216	1822	2101	*	2464
Hydrologic node located at 35.8035, -78.4426	1.37	480	800	940	1550	1290
Hydrologic node located at 35.7723, -78.6912	1.32	1400	1758	1915	*	2214
Hydrologic node located at 35.6468, -78.761	1.26	547	1134	1365	1809	1929
Hydrologic node located at 35.7312, -78.7529	1.26	733	1377	1666	1809	2496
Hydrologic node located at 35.7765, -78.8259	1.25	907	1475	1715	2014	2381
Hydrologic node located at 35.7643, -78.6967	1.22	845	1228	1329	*	1940
Hydrologic node located at 35.7535, -78.609	1.21	1170	1880	2184	*	2758
Hydrologic node located at 35.8634, -78.6955	1.20	805	1307	1523	*	2125
Hydrologic node located at 35.6705, -78.6737	1.18	416	896	1121	1410	1786
Hydrologic node located at 35.7665, -78.7006	1.17	866	1442	1667	*	2095
Hydrologic node located at 35.5934, -78.8679	1.15	344	823	1068	1784	1748
Hydrologic node located at 35.6598, -78.6395	1.15	340	570	680	1150	950
Hydrologic node located at 35.7765, -78.6951	1.15	1298	1619	1750	*	1912
Approximately 1200 feet upstream of the confluence with Kenneth Creek	1.08	180	320	400	1210	570
Hydrologic node located at 35.7629, -78.6755	1.07	762	1045	1162	*	1377
Hydrologic node located at 35.5804, -78.8938	1.05	393	944	1225	2275	1978
Hydrologic node located at 35.7686, -78.7033	1.03	788	1348	1555	*	1976
Hydrologic node located at 35.7579, -78.6242	1.02	1356	1969	2226	*	2704
Hydrologic node located at 35.5741, -78.87	1.00	303	731	955	1556	1560
Just upstream of Wagstaff Road	1.00	430	800	940	1210	1350
Hydrologic node located at 35.8134, -78.4447	0.97	390	650	760	1230	1050
Hydrologic node located at 35.8197, -78.8254	0.97	860	1338	1549	1803	2067
Hydrologic node located at 35.7241, -78.6652	0.97	540	930	1050	1050	1390
Hydrologic node located at 35.8297, -78.8126	0.94	801	1250	1460	1771	1958
Hydrologic node located at 35.8572, -78.7836	0.94	809	1173	1333	1379	1718
Hydrologic node located at 35.7177, -78.6858	0.93	400	730	840	1050	1170
Hydrologic node located at 35.7322, -78.5284	0.92	510	890	1010	1300	1340
Hydrologic node located at 35.684, -78.8228	0.92	421	800	983	1299	1454
Hydrologic node located at 35.7102, -78.5642	0.88	467	825	984	*	1290
Hydrologic node located at 35.733, -78.5294	0.85	530	910	1020	1210	1340
Hydrologic node located at 35.6681, -78.8227	0.82	605	905	1072	1317	1500
Hydrologic node located at 35.6262, -78.579	0.79	250	430	520	1100	730
Hydrologic node located at 35.8035, -78.4423	0.78	340	570	670	1260	930
Hydrologic node located at 35.771, -78.7072	0.77	600	1075	1242	*	1515
Hydrologic node located at 35.75, -78.6117	0.77	658	1097	1287	*	1652
Hydrologic node located at 35.7094, -78.5687	0.74	442	781	931	*	1220
Hydrologic node located at 35.6627, -78.6461	0.72	260	440	520	890	740
Hydrologic node located at 35.7549, -78.6816	0.71	614	771	841	*	928
Hydrologic node located at 35.893, -78.7041	0.70	703	1160	1357	*	1907

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Unnamed Stream						
Hydrologic node located at 35.8864, -78.6672	0.69	665	1184	1413	*	2063
Hydrologic node located at 35.7553, -78.6519	0.69	382	816	932	*	1069
Hydrologic node located at 35.7701, -78.7284	0.68	849	1336	1548	*	2096
Hydrologic node located at 35.8166, -78.8455	0.67	529	808	934	1111	1237
Hydrologic node located at 35.771, -78.7297	0.67	843	1328	1539	*	2083
Hydrologic node located at 35.7646, -78.6264	0.64	1053	1596	1823	*	2250
Hydrologic node located at 35.724, -78.6649	0.63	610	970	1070	1310	1340
Hydrologic node located at 35.7538, -78.6824	0.62	756	1157	1322	*	1628
Hydrologic node located at 35.7091, -78.5717	0.60	393	684	812	*	1057
Hydrologic node located at 35.7657, -78.6293	0.60	1031	1563	1786	*	2205
Hydrologic node located at 35.7692, -78.7231	0.59	558	599	661	*	796
Hydrologic node located at 35.8904, -78.7003	0.59	682	1112	1296	*	1808
Hydrologic node located at 35.7859, -78.8428	0.58	761	1141	1310	1410	1718
Hydrologic node located at 35.8279, -78.84	0.57	570	862	993	1132	1309
Hydrologic node located at 35.7849, -78.8305	0.56	614	915	1049	1191	1371
Hydrologic node located at 35.7439, -78.618	0.56	483	826	976	*	1260
Just upstream of Angier Road	0.55	120	220	270	820	390
Hydrologic node located at 35.8415, -78.8235	0.55	550	836	965	1155	1275
Hydrologic node located at 35.7751, -78.7128	0.55	398	882	1066	*	1418
Hydrologic node located at 35.6503, -78.6305	0.55	300	570	660	880	930
Hydrologic node located at 35.7774, -78.7319	0.54	772	1213	1405	*	1880
Hydrologic node located at 35.6383, -78.7734	0.54	267	543	678	875	1030
Hydrologic node located at 35.7678, -78.6803	0.53	821	1195	1347	*	1747
Hydrologic node located at 35.8028, -78.7892	0.53	506	836	989	1202	1363
Hydrologic node located at 35.7665, -78.7286	0.52	687	869	942	*	1078
Hydrologic node located at 35.7336, -78.5403	0.52	350	620	710	880	960
Hydrologic node located at 35.7756, -78.7133	0.52	697	1067	1222	*	1506
Hydrologic node located at 35.6669, -78.8334	0.52	465	771	912	1116	1266
Hydrologic node located at 35.6746, -78.7642	0.51	288	531	648	812	949
Hydrologic node located at 35.7293, -78.5681	0.51	530	866	992	*	1218
Hydrologic node located at 35.7512, -78.6594	0.50	326	877	1081	*	1436
Hydrologic node located at 35.8754, -78.686	0.50	783	1257	1458	*	2017
Hydrologic node located at 35.7272, -78.5371	0.50	260	490	570	880	810
Hydrologic node located at 35.7131, -78.6994	0.48	250	430	500	710	700
Hydrologic node located at 35.7701, -78.8307	0.48	438	701	820	968	1112
Hydrologic node located at 35.782, -78.7007	0.48	1249	1827	2068	*	2520
Hydrologic node located at 35.8688, -78.6996	0.47	607	979	1137	*	1578
Hydrologic node located at 35.7574, -78.6296	0.45	536	874	1009	*	1273
Hydrologic node located at 35.752, -78.6839	0.43	511	740	890	*	1322
Hydrologic node located at 35.8142, -78.7867	0.42	414	675	795	954	1089
Hydrologic node located at 35.7775, -78.7164	0.42	567	860	985	*	1228
Hydrologic node located at 35.7483, -78.6621	0.41	562	927	1084	*	1382
Hydrologic node located at 35.7712, -78.6799	0.39	903	1327	1503	*	1833

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Unnamed Stream						
Hydrologic node located at 35.8632, -78.6977	0.38	537	799	909	*	1209
Hydrologic node located at 35.7725, -78.6912	0.38	665	985	1119	*	1369
Hydrologic node located at 35.7973, -78.7259	0.38	176	382	478	*	760
Hydrologic node located at 35.8983, -78.697	0.37	578	937	1090	*	1526
Hydrologic node located at 35.7627, -78.6029	0.37	479	763	882	*	1104
Hydrologic node located at 35.7646, -78.7342	0.35	434	489	507	*	538
Hydrologic node located at 35.7512, -78.6285	0.34	375	632	744	*	957
Hydrologic node located at 35.7591, -78.6587	0.34	552	832	943	*	1120
Hydrologic node located at 35.7635, -78.613	0.33	460	660	727	*	826
Hydrologic node located at 35.7688, -78.6308	0.33	572	885	1016	*	1263
Hydrologic node located at 35.761, -78.6984	0.31	484	687	771	*	925
Hydrologic node located at 35.7392, -78.6208	0.31	337	583	691	*	895
Hydrologic node located at 35.7623, -78.672	0.31	366	641	761	*	993
Hydrologic node located at 35.9013, -78.7101	0.31	453	746	875	*	1236
Hydrologic node located at 35.7757, -78.6791	0.30	720	1062	1204	*	1470
Hydrologic node located at 35.7641, -78.6721	0.29	361	633	752	*	981
Hydrologic node located at 35.7809, -78.7326	0.29	473	732	841	*	1046
Hydrologic node located at 35.7791, -78.6909	0.28	568	828	936	*	1138
Hydrologic node located at 35.7497, -78.6118	0.27	429	668	770	*	960
Hydrologic node located at 35.727, -78.5621	0.27	356	565	642	*	764
Hydrologic node located at 35.7677, -78.6028	0.27	394	624	721	*	901
Hydrologic node located at 35.7646, -78.6263	0.26	377	565	626	*	746
Hydrologic node located at 35.7469, -78.6674	0.26	383	629	736	*	937
Hydrologic node located at 35.7629, -78.6606	0.25	403	610	670	*	782
Hydrologic node located at 35.7518, -78.6852	0.25	304	434	660	*	975
Hydrologic node located at 35.738, -78.5943	0.23	235	417	497	*	652
Hydrologic node located at 35.7609, -78.6998	0.23	602	861	968	*	1167
Hydrologic node located at 35.7669, -78.6148	0.23	319	496	570	*	710
Hydrologic node located at 35.7601, -78.7003	0.23	599	855	961	*	1159
Hydrologic node located at 35.7667, -78.6721	0.21	348	599	709	*	918
Hydrologic node located at 35.7489, -78.6869	0.21	413	654	757	*	951
Hydrologic node located at 35.77, -78.7262	0.21	382	589	677	*	840
Hydrologic node located at 35.7763, -78.6793	0.21	517	752	849	*	1031
Hydrologic node located at 35.7404, -78.5967	0.21	219	383	455	*	594
Hydrologic node located at 35.7711, -78.7266	0.20	380	586	673	*	836
Hydrologic node located at 35.7635, -78.7353	0.20	582	810	905	*	1082
Hydrologic node located at 35.7691, -78.6027	0.20	298	468	540	*	676
Hydrologic node located at 35.7688, -78.631	0.20	427	631	716	*	875
Hydrologic node located at 35.7866, -78.7013	0.20	537	793	899	*	1100
Hydrologic node located at 35.7481, -78.6876	0.19	402	638	738	*	926
Hydrologic node located at 35.8727, -78.7074	0.19	295	481	562	*	786
Hydrologic node located at 35.7695, -78.6328	0.19	423	625	709	*	866
Hydrologic node located at 35.7839, -78.7353	0.19	375	574	657	*	815

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Unnamed Stream						
Hydrologic node located at 35.7663, -78.6602	0.17	311	525	618	*	794
Hydrologic node located at 35.7846, -78.7171	0.17	314	468	532	*	651
Hydrologic node located at 35.7253, -78.5591	0.17	250	383	428	*	491
Hydrologic node located at 35.7708, -78.6342	0.17	408	601	681	*	831
Hydrologic node located at 35.7562, -78.7017	0.17	486	690	774	*	931
Hydrologic node located at 35.7669, -78.6256	0.17	223	353	409	*	512
Hydrologic node located at 35.7707, -78.6311	0.17	312	479	549	*	681
Hydrologic node located at 35.7748, -78.7262	0.17	326	506	582	*	725
Hydrologic node located at 35.7693, -78.6714	0.16	301	511	602	*	775
Hydrologic node located at 35.7889, -78.7013	0.16	488	706	797	*	966
Hydrologic node located at 35.7729, -78.7379	0.16	310	484	557	*	695
Hydrologic node located at 35.7561, -78.6984	0.16	429	634	720	*	879
Hydrologic node located at 35.725, -78.5574	0.16	254	422	495	*	632
Hydrologic node located at 35.7458, -78.6291	0.16	162	288	343	*	449
Hydrologic node located at 35.774, -78.7379	0.16	298	467	538	*	672
Hydrologic node located at 35.746, -78.6685	0.16	221	368	431	*	551
Hydrologic node located at 35.7682, -78.6256	0.15	217	343	397	*	498
Hydrologic node located at 35.7353, -78.6233	0.15	217	357	417	*	532
Hydrologic node located at 35.7465, -78.6102	0.15	241	381	440	*	553
Hydrologic node located at 35.7813, -78.6906	0.15	319	455	511	*	616
Hydrologic node located at 35.8642, -78.7069	0.13	273	436	506	*	698
Hydrologic node located at 35.7158, -78.5834	0.11	114	197	234	*	305
Hydrologic node located at 35.7799, -78.6985	0.10	218	337	387	*	481
Hydrologic node located at 35.7716, -78.5466	*	*	*	*	*	*
Upper Barton Creek (Basin 16, Stream 1)						
Approximatley 1.07 miles downstream of Six Forks Road	13.27	2590	4010	4470	5070	5760
Upstream of Six Forks Road	12.30	2390	3730	4180	4790	5420
Approximately 2900 feet upstream of Six Forks Road	9.52	2020	3190	3590	4100	4680
Approximately 2900 feet downstream of Mt Vernon Church Road	8.84	1940	3070	3450	3940	4500
Approximately 700 feet upstream of Mt Vernon Church Road	6.56	1680	2680	3000	3330	3910
Upstream of Creedmoor Road	5.79	1590	2530	2830	3130	3680
Approximately 2300 feet upstream of Creedmoor Road	5.25	1490	2390	2670	2960	3480
Upstream of Old Creedmoor Road	4.80	1400	2260	2540	2810	3310
Approximately 500 feet upstream of Old Creedmoor Road	3.95	1250	2030	2280	2500	2970
Approximately 1300 feet upstream of Old Creedmoor Road	3.65	1180	1920	2160	2390	2840
Approximately 3400 feet upstream of Old Creedmoor Road	2.94	1050	1720	1940	2100	2540
Approximately 3000 feet downstream of North Hawthorne Way	2.71	1020	1670	1880	2000	2460
Approximately 2000 feet downstream of North Hawthorne Way	1.89	830	1370	1550	1610	2030
Downstream of Victory Church Road	1.77	790	1320	1480	1550	1950
Approximately 600 feet upstream of North Hawthorne Way	0.89	500	870	980	1030	1310
At the confluence with of Upper Barton Creek	0.76	390	700	810	960	1110

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Upper Barton Creek (Basin 16, Stream 1)						
Approximately 4700 feet upstream of North Hawthorne Way	0.49	340	610	690	730	930
At the confluence with of Upper Barton Creek	0.45	320	570	650	700	880
Utley Creek						
Hydrologic node located at 35.6406, -78.8967	3.79	1450	2470	2937	3826	4199
Hydrologic node located at 35.6438, -78.8806	3.16	1485	2525	2980	3795	4139
Hydrologic node located at 35.6446, -78.8775	2.39	1222	1966	2303	2923	3353
Hydrologic node located at 35.6471, -78.8661	1.65	995	1748	2130	2708	3095
Hydrologic node located at 35.6432, -78.8564	1.32	1058	1865	2275	2852	3262
Hydrologic node located at 35.647, -78.8457	0.51	623	1032	1221	1454	1695
Walnut Creek (Basin 30, Stream 1)						
Hydrologic node located at 35.7509, -78.5326	46.08	4818	7695	8964	*	11594
Hydrologic node located at 35.7501, -78.5444	44.89	4928	7814	9088	*	11768
Hydrologic node located at 35.7495, -78.5543	44.28	5084	8039	9488	*	12586
Hydrologic node located at 35.7484, -78.5581	43.99	5074	7989	9430	*	12527
Hydrologic node located at 35.7465, -78.5685	31.40	4501	6879	7862	*	9767
Hydrologic node located at 35.7536, -78.5766	29.78	4566	6949	7941	*	10114
Hydrologic node located at 35.7606, -78.5859	29.42	4547	6921	7909	*	10072
Hydrologic node located at 35.7571, -78.5955	28.82	4616	7008	8025	*	10386
Hydrologic node located at 35.7568, -78.5786	28.26	4818	7292	8424	*	11001
Hydrologic node located at 35.7626, -78.6026	27.89	4791	7253	8376	*	10938
Hydrologic node located at 35.7628, -78.6048	26.31	4671	7075	8161	*	10644
Hydrologic node located at 35.7598, -78.5873	26.17	4759	7203	8434	*	11206
Hydrologic node located at 35.7637, -78.6105	25.55	4704	7122	8338	*	11080
Hydrologic node located at 35.763, -78.6131	25.19	4673	7077	8290	*	11019
Hydrologic node located at 35.7622, -78.6137	25.16	4672	7076	8294	*	11034
Hydrologic node located at 35.7594, -78.6179	24.63	4893	7398	8704	*	11150
Hydrologic node located at 35.7578, -78.6239	23.49	5307	7985	9159	*	11158
Hydrologic node located at 35.7575, -78.6285	22.93	5846	8654	9643	*	11269
Hydrologic node located at 35.7566, -78.6351	20.50	4665	6682	7443	*	8855
Hydrologic node located at 35.7572, -78.6383	17.32	2753	4079	4835	*	6285
Hydrologic node located at 35.7544, -78.6448	16.01	2466	3867	4580	*	6077
Hydrologic node located at 35.7553, -78.6516	15.25	2356	3761	4514	*	6050
Hydrologic node located at 35.759, -78.6587	14.33	2211	4050	4976	*	6745
Hydrologic node located at 35.7592, -78.665	13.89	2189	4111	5036	*	6772
Hydrologic node located at 35.7623, -78.6719	13.24	2162	4403	5262	*	6894
Hydrologic node located at 35.7628, -78.6752	12.15	2074	3878	4662	*	6137
Hydrologic node located at 35.765, -78.6765	12.12	4949	7406	8406	*	10394
Hydrologic node located at 35.7691, -78.6893	9.20	1794	2827	3546	*	4926
Hydrologic node located at 35.7645, -78.6966	7.74	1621	2605	3325	*	4658
Hydrologic node located at 35.7612, -78.6984	7.34	1589	2562	3281	*	4614
Hydrologic node located at 35.761, -78.6994	7.10	1566	2532	3245	*	4571
Hydrologic node located at 35.7621, -78.7049	6.99	4640	6357	7015	*	8278

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Walnut Creek (Basin 30, Stream 1)						
Hydrologic node located at 35.7693, -78.7232	4.63	2342	3280	3671	*	4495
Hydrologic node located at 35.77, -78.7256	4.34	2356	3462	3918	*	4812
Hydrologic node located at 35.77, -78.7283	3.64	2174	3036	3365	*	3952
Hydrologic node located at 35.7729, -78.7377	3.19	2151	2990	3303	*	3844
Hydrologic node located at 35.7721, -78.7402	3.13	2186	3096	3452	*	4014
Hydrologic node located at 35.7733, -78.7455	2.48	2237	3065	3386	*	4007
Hydrologic node located at 35.7756, -78.7473	2.07	2070	2919	3247	*	3864
Hydrologic node located at 35.7774, -78.7516	1.43	1548	2100	2281	*	2584
Hydrologic node located at 35.7781, -78.7523	1.43	1547	2103	2301	*	2647
Hydrologic node located at 35.7865, -78.7622	0.89	939	1442	1653	*	2051
Hydrologic node located at 35.7597, -78.5874	0.03	118	167	188	*	226
Wheelers Creek (Basin 10, Stream 25)						
Hydrologic node located at 35.8165, -78.3491	1.54	1133	1971	2336	2608	3357
Hydrologic node located at 35.8268, -78.3361	1.00	1019	1721	2024	2362	2877
White Oak Creek (Basin 19, Stream 1)						
Hydrologic node located at 35.6594, -78.5343	7.12	1660	2670	3010	4790	3950
Hydrologic node located at 35.6723, -78.5447	3.80	1360	2160	2410	3360	3090
Hydrologic node located at 35.6718, -78.5489	3.53	1300	2070	2300	3230	2960
Hydrologic node located at 35.6743, -78.5555	3.20	1220	1940	2170	3080	2790
Hydrologic node located at 35.675, -78.5573	2.29	1160	1810	2000	2720	2530
Hydrologic node located at 35.6805, -78.56	1.85	1080	1680	1850	2390	2310
Hydrologic node located at 35.6885, -78.563	1.22	930	1440	1580	1910	1950
Hydrologic node located at 35.6897, -78.5651	0.81	790	1220	1330	1500	1630
Hydrologic node located at 35.6911, -78.5671	0.40	590	900	980	980	1180
White Oak Creek (Basin 26, Stream 1)						
Hydrologic node located at 35.6406, -78.8968	15.89	2656	4934	6071	8482	8962
Hydrologic node located at 35.6508, -78.8968	14.94	2680	5026	6183	8641	9119
Hydrologic node located at 35.6556, -78.8918	14.78	2671	5016	6172	8626	9102
Hydrologic node located at 35.6597, -78.8892	14.39	2775	5071	6219	8683	9167
Hydrologic node located at 35.664, -78.8858	13.28	2782	4978	6107	8503	8985
Hydrologic node located at 35.6703, -78.8838	1.59	600	991	1179	1619	1670
Hydrologic node located at 35.6815, -78.8851	0.93	567	911	1072	1392	1485
Hydrologic node located at 35.6906, -78.8852	0.43	473	809	965	1159	1361
Wildcat Branch (Basin 30, Stream 4)						
Hydrologic node located at 35.755, -78.6349	1.97	1151	2053	2220	*	2469
Hydrologic node located at 35.7499, -78.6372	1.80	1119	2459	2919	*	3749
Hydrologic node located at 35.7526, -78.6363	1.80	1888	2839	3227	*	3953
Hydrologic node located at 35.7446, -78.6398	1.51	1627	2433	2761	*	3379
Hydrologic node located at 35.7397, -78.6405	0.79	831	1329	1534	*	1905
Hydrologic node located at 35.7395, -78.6406	0.60	875	1250	1408	*	1702
Hydrologic node located at 35.7381, -78.6414	0.56	830	1181	1328	*	1602
Hydrologic node located at 35.7361, -78.6424	0.39	578	771	850	*	995

Table 13 - Summary of Discharges

Flooding Source		Discharges (cfs)				
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	1% Annual Future Annual Chance	0.2% Annual Chance
Wildcat Branch (Basin 30, Stream 4)						
Hydrologic node located at 35.7318, -78.6435	0.20	245	268	275	*	285
Hydrologic node located at 35.7296, -78.6453	0.17	421	612	691	*	839
Yates Branch (Basin 20, Stream 13)						
Hydrologic node located at 35.6825, -78.6531	13.74	2740	4190	4670	5830	5970
Hydrologic node located at 35.6913, -78.6562	13.09	2690	4110	4580	5670	5850
Hydrologic node located at 35.6935, -78.6582	12.58	2640	4040	4490	5560	5740
Hydrologic node located at 35.6993, -78.6609	10.59	2170	3410	3820	4890	4980
Hydrologic node located at 35.7042, -78.6642	10.30	2130	3350	3760	4810	4900
Hydrologic node located at 35.7081, -78.6663	9.81	2040	3240	3630	4670	4740
Hydrologic node located at 35.7134, -78.6673	7.34	1360	2190	2540	3600	3430
Hydrologic node located at 35.717, -78.6797	6.48	1260	2030	2360	3320	3190
Hydrologic node located at 35.718, -78.6863	5.16	1637	3151	3880	*	6153
Hydrologic node located at 35.7218, -78.689	3.48	1427	2560	3073	*	4637
Hydrologic node located at 35.7219, -78.7003	3.09	1467	2625	3125	*	4684
Hydrologic node located at 35.7243, -78.7025	2.70	1440	2535	3016	*	4468
Hydrologic node located at 35.7279, -78.7058	2.12	1396	2361	2804	*	4045
Hydrologic node located at 35.7317, -78.7161	1.62	1395	2302	2686	*	3852
Hydrologic node located at 35.7338, -78.7192	1.28	1222	1943	2281	*	3204
Hydrologic node located at 35.7403, -78.7234	0.95	1127	1776	2052	*	2818

The stillwater elevations have been determined for the 1% [add 10%, 2%, and 0.2% here if that data is available] annual chance flood for the flooding sources studied by detailed methods and are summarized in Table 14, "Summary of Stillwater Elevations."

Table 14 - Summary of Non-Coastal Stillwater Elevations

Flooding Source	FIRM Panel Number(s)	Elevations (feet NAVD)			
		10% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Beaverdam Creek	3720089200,3720089300	259.7	263.7	265.5	299.6
Harris Reservoir	3720060600, 3720062800, 3720062600	230.5	231.8*	232.0	233.5
Falls Lake	3720087200,3720087300,3720088000, 3720088100, 3720088200, 372088300, 3720089000, 3720089100, 3720171900, 3720172900, 3720180000, 3720180100, 3720180200, 3720181000, 372181100, 372181200, 372182100	259.7	263.7	265.5	269.6

Table 15, "Gage Information", lists the stream gages located in Wake County, including the drainage area of the flooding source at the gage and the period of record available at the time of the publication of this FIS Report.

Table 15 - Gage Information

Gage Number	Flooding Source	Site Name	Drainage Area (square miles)	Period of Record	
				From	To
0208758850	Swift Creek	SWIFT CREEK NEAR McCULLARS CROSSROADS, NC	35.80	1989	2002

5.2 Hydraulic Analyses

Analyses of the hydraulic characteristics of flooding from the sources studied were carried out to provide estimates of the flood elevations for the selected recurrence intervals. Locations of selected cross sections used in the hydraulic analyses are shown on the Flood Profiles and/or Water-surface elevation rasters. For stream segments for which BFEs were computed, selected cross-section locations are also shown on the FIRM. Flood Profiles and/or Water-surface elevation rasters were developed showing computed water-surface elevations for 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 and/or Water-surface elevation rasters or in the Floodway Data tables in the FIS Report. For construction and/or floodplain management purposes, users are encouraged to use the flood elevation data presented in the FIS in conjunction with the data shown on the FIRM.

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

For details on the county's hydraulic analyses, the hydraulic report is available by request.

For the streams studied by detailed methods, water surface elevations of floods of the selected recurrence intervals were computed through use of the Army Corps of Engineers' HEC RAS step backwater computer program. The hydraulic analyses were based on unobstructed flow. The flood elevations shown on the Profiles and/or Water-surface elevation rasters are thus considered valid only if hydraulic structures remain unobstructed, operate properly, and do not fail. The computer models were calibrated using historic high water data collected during field investigations.

The cross section geometries were obtained from a combination of digital elevation data obtained by Light Detection and Ranging (LIDAR) and field surveys. All bridges, dams, and culverts were field surveyed to obtain elevation data and structural geometry. Natural floodplain cross sections were surveyed approximately every 4000 feet along the detail study reaches to obtain the channel geometry between bridges and culverts. Overbank cross section data for the backwater analyses were obtained from recently flown LIDAR data.

Channel roughness factors (Manning's "n") used in the hydraulic computations were made in the field by an engineer where stream access was possible, with orthophotos used to supplement areas that could not be accessed. The channel and overbank "n" values for all of the streams studied by detailed methods are shown in Table 16, "Roughness Coefficients".

Table 16 - Roughness Coefficients

Stream	Channel "n"	Overbank "n"
Adams Branch (Basin 30, Stream 9)	0.030 to 0.070	0.055 to 0.110
Angier Creek (Basin 24, Stream 4)	0.030 to 0.070	0.055 to 0.150
Armory Tributary (Basin 18, Stream 38)	0.030 to 0.070	0.015 to 0.140
Austin Creek (Basin 6, Stream 10)	0.032 to 0.060	0.035 to 0.090
Bachelor Branch (Basin 28, Stream 6)	0.032 to 0.068	0.035 to 0.155
Bagwell Branch (Basin 20, Stream 10)	0.032 to 0.050	0.055 to 0.090
Basal Creek	0.030 to 0.070	0.070 to 0.200
Basal Creek (Basin 22, Stream 16)	0.032 to 0.050	0.032 to 0.090
Basin 10, Stream 10	0.050	0.055 to 0.090
Basin 10, Stream 13	0.045	0.130
Basin 10, Stream 14	0.035 to 0.050	0.080 to 0.150
Basin 10, Stream 2	0.050	0.032 to 0.090
Basin 10, Stream 3	0.050	0.032 to 0.090
Basin 10, Stream 5	0.030 to 0.070	0.055 to 0.180
Basin 10, Stream 6	0.030 to 0.070	0.055 to 0.130
Basin 10, Stream 9	0.032 to 0.050	0.055 to 0.090
Basin 11, Stream 4	0.047	0.140
Basin 11, Stream 7	0.042	0.130
Basin 12, Stream 3	0.024 to 0.070	0.045 to 0.150
Basin 14, Stream 2	0.045	0.100
Basin 14, Stream 3	0.050	0.130
Basin 15, Stream 22	0.045	0.045 to 0.120

Table 16 - Roughness Coefficients

Stream	Channel "n"	Overbank "n"
Basin 15, Stream 25	0.045 to 0.050	0.015 to 0.140
Basin 15, Stream 28	0.040 to 0.050	0.015 to 0.120
Basin 15, Stream 32	0.032 to 0.063	0.060 to 0.090
Basin 15, Stream 33	0.032 to 0.050	0.045 to 0.090
Basin 15, Stream 7	0.032 to 0.050	0.032 to 0.090
Basin 15, Stream 8	0.050	0.055 to 0.090
Basin 15, Stream 9	0.032 to 0.050	0.032 to 0.090
Basin 16, Stream 2	0.032 to 0.060	0.032 to 0.090
Basin 16, Stream 5	0.032 to 0.050	0.032 to 0.090
Basin 17, Stream 4	0.032 to 0.057	0.030 to 0.090
Basin 18, Stream 13	0.024 to 0.070	0.032 to 0.150
Basin 18, Stream 13 Tributary	0.032 to 0.050	0.032 to 0.150
Basin 18, Stream 4	0.030 to 0.070	0.012 to 0.130
Basin 18, Stream 7	0.055	0.080 to 0.150
Basin 18, Stream 8	0.044 to 0.053	0.035 to 0.150
Basin 19, Stream 3	0.050 to 0.060	0.045 to 0.090
Basin 19, Stream 4	0.050 to 0.055	0.055 to 0.090
Basin 20, Stream 20	0.032 to 0.050	0.055 to 0.090
Basin 20, Stream 5	0.047 to 0.050	0.050 to 0.130
Basin 20, Stream 7	0.030 to 0.070	0.055 to 0.130
Basin 20, Stream 8	0.050	0.055 to 0.090
Basin 22, Stream 20	0.050	0.035 to 0.090
Basin 22, Stream 6	0.050	0.055 to 0.090
Basin 22, Stream 9	0.032 to 0.050	0.055 to 0.090
Basin 23, Stream 2	0.050	0.140
Basin 23, Stream 2 Tributary	0.050	0.140
Basin 23, Stream 3	0.048	0.140
Basin 23, Stream 4	0.050	0.150
Basin 23, Stream 5	0.050	0.150
Basin 27, Stream 4	0.030 to 0.070	0.060 to 0.110
Basin 28, Stream 7	0.050 to 0.055	0.150 to 0.155
Basin 28, Stream 8	0.047 to 0.050	0.100 to 0.200
Basin 3, Stream 6	0.050 to 0.320	0.035 to 0.100
Basin 30, Stream 3	0.050	0.030 to 0.120
Basin 4, Stream 13	0.050	0.042 to 0.090
Basin 4, Stream 3	0.032 to 0.074	0.030 to 0.090
Basin 6, Stream 9	0.040 to 0.090	0.035 to 0.090
Beaver Creek	0.043 to 0.050	0.100 to 0.200
Beaver Creek Tributary (Basin 27, Stream 3)	0.030 to 0.070	0.032 to 0.110
Beaverdam Creek	0.030 to 0.070	0.032 to 0.130
Beaverdam Creek (Basin 12, Stream 1)	0.024 to 0.070	0.015 to 0.140
Beaverdam Creek (Basin 15, Stream 21)	0.018 to 0.070	0.015 to 0.130
Beaverdam Creek (Basin 18, Stream 28)	0.040 to 0.110	0.090 to 0.200
Beddingfield Creek	0.050	0.130
Big Branch	0.050	0.140
Big Branch (Basin 10, Stream 8)	0.030 to 0.070	0.055 to 0.130
Big Branch (Basin 18, Stream 21)	0.035 to 0.055	0.012 to 0.200
Big Branch (Basin 26, Stream 5)	0.050 to 0.056	0.035 to 0.140
Big Branch (Basin 30, Stream 2)	0.060	0.016 to 0.120
Big Branch Tributary No. 3	0.030 to 0.090	0.012 to 0.120
Big Branch Tributary No.1 (Basin 30, Stream 6)	0.030 to 0.093	0.070 to 0.130
Black Creek	0.025 to 0.060	0.030 to 0.150
Black Creek Tributary A (Basin 18, Stream 11)	0.032 to 0.050	0.032 to 0.090
Bradley Creek (Basin 24, Stream 3)	0.030 to 0.070	0.055 to 0.110
Bridges Branch	0.045 to 0.050	0.015 to 0.130
Brier Creek (Basin 18, Stream 14)	0.024 to 0.040	0.100 to 0.200
Buck Branch (Basin 20, Stream 12)	0.032 to 0.050	0.032 to 0.090
Buckhorn Branch (Basin 3, Stream 9)	0.050	0.045 to 0.100

Table 16 - Roughness Coefficients

Stream	Channel "n"	Overbank "n"
Buckhorn Creek	0.040 to 0.050	0.032 to 0.320
Buffalo Branch (Basin 10, Stream 22)	0.032 to 0.090	0.035 to 0.150
Buffalo Creek (Basin 9, Stream 1)	0.030 to 0.070	0.032 to 0.140
Buffalo Creek West	0.045 to 0.052	0.030 to 0.140
Burdens Creek	0.042 to 0.050	0.100 to 0.200
Camp Branch (Basin 22, Stream 7)	0.050	0.035 to 0.090
Cary Branch	0.032 to 0.050	0.055 to 0.140
Cedar Creek (Basin 15, Stream 34)	0.032 to 0.060	0.070 to 0.140
Cedar Fork (Basin 10, Stream 15)	0.420 to 0.042	0.130
Clark Branch (Basin 28, Stream 3)	0.050	0.150
Coles Branch (Basin 18, Stream 24)	0.030 to 0.070	0.032 to 0.200
Crabtree Creek (Basin 18, Stream 9)	0.030 to 0.070	0.032 to 0.150
Crabtree Creek Tributary No. 6 (Basin 18, Stream 20)	0.030 to 0.070	0.060 to 0.130
Dunn Creek (Basin 6, Stream 5)	0.032 to 0.050	0.030 to 0.090
Dutchmans Branch (Basin 20, Stream 17)	0.032 to 0.050	0.032 to 0.090
East Fork Mine Creek (Basin 18, Stream 34)	0.050 to 0.105	0.015 to 0.150
East Fork Mine Creek Tributary (Basin 18, Stream 35)	0.035 to 0.055	0.070 to 0.120
Echo Creek (Basin 20, Stream 14)	0.050 to 0.065	0.035 to 0.090
Fowlers Mill Creek (Basin 10, Stream 12)	0.042	0.130
Gill Creek (Basin 10, Stream 24)	0.050	0.060 to 0.090
Guffy Branch (Basin 21, Stream 4)	0.047	0.130
Haleys Branch (Basin 18, Stream 10)	0.032 to 0.050	0.032 to 0.090
Hare Snipe Creek (Basin 18, Stream 1)	0.048 to 0.060	0.012 to 0.100
Hatchet Grove Tributary (Basin 18, Stream 25)	0.030 to 0.070	0.032 to 0.130
Hillard Creek (Basin 30, Stream 7)	0.050	0.055 to 0.090
Hodges Creek (Basin 8, Stream 1)	0.030 to 0.070	0.045 to 0.160
Hominy Branch (Basin 10, Stream 4)	0.050	0.032 to 0.090
Hominy Creek (Basin 10, Stream 7)	0.030 to 0.070	0.055 to 0.130
Honeycutt Creek (Basin 15, Stream 31)	0.032 to 0.055	0.080 to 0.150
Horse Creek	0.032 to 0.055	0.060 to 0.150
Horse Creek Tributary 1	0.048	0.120 to 0.150
House Creek (Basin 18, Stream 36)	0.048 to 0.050	0.015 to 0.150
Jack Branch (Basin 28, Stream 4)	0.055	0.155
Jim Branch	0.045	0.145
Juniper Branch (Basin 21, Stream 2)	0.045	0.110 to 0.130
Kenneth Branch (Basin 24, Stream 6)	0.030 to 0.070	0.055 to 0.150
Kenneth Creek	0.030 to 0.070	0.070 to 0.160
Kenneth Creek (Basin 24, Stream 2)	0.030 to 0.070	0.070 to 0.160
Kit Creek	0.030 to 0.070	0.070 to 0.130
Kit Creek Tributary 1 (Basin 29, Stream 11)	0.032 to 0.050	0.032 to 0.090
Kit Creek Tributary 2 (Basin 29, Stream 8)	0.030 to 0.070	0.055 to 0.110
Lakemont Tributary (Basin 18, Stream 22)	0.048 to 0.062	0.080 to 0.200
Lens Branch (Basin 20, Stream 22)	0.032 to 0.060	0.032 to 0.090
Little Beaver Creek (Basin 27, Stream 1)	0.045 to 0.055	0.100 to 0.220
Little Beaverdam Creek (Basin 2, Stream 2)	0.030 to 0.070	0.070 to 0.150
Little Black Creek	0.030 to 0.070	0.070 to 0.130
Little Branch (Basin 26, Stream 3)	0.040 to 0.060	0.032 to 0.148
Little Branch Tributary (Basin 26, Stream 4)	0.048	0.148
Little Brier Creek (Basin 18, Stream 15)	0.030 to 0.086	0.012 to 0.150
Little Brier Creek East (Basin 18, Stream 16)	0.030 to 0.070	0.070 to 0.150
Little Creek (Basin 11, Stream 2)	0.030 to 0.080	0.055 to 0.150
Little Creek (Into Middle Creek)	0.033 to 0.047	0.095 to 0.140
Little River	0.040 to 0.066	0.070 to 0.240
Little White Oak Creek (Basin 26, Stream 9)	0.035 to 0.050	0.148
Little White Oak Creek Tributary 2	0.040	0.140
Lizard Lick Creek (Basin 10, Stream 23)	0.032 to 0.050	0.032 to 0.090
Lower Barton Creek (Basin 17, Stream 1)	0.040 to 0.050	0.032 to 0.090
Lowery Creek (Basin 4, Stream 10)	0.032 to 0.050	0.032 to 0.090

Table 16 - Roughness Coefficients

Stream	Channel "n"	Overbank "n"
Lynn Road Tributary (Basin 18, Stream 32)	0.035 to 0.050	0.015 to 0.150
Mahlers Creek (Basin 20, Stream 6)	0.050	0.032 to 0.090
Mango Creek (Basin 15, Stream 11)	0.050 to 0.054	0.032 to 0.090
Marks Creek	0.025 to 0.070	0.032 to 0.130
Marsh Creek (Basin 18, Stream 17)	0.038 to 0.060	0.048 to 0.200
Medfield Tributary (Basin 18, Stream 39)	0.045 to 0.050	0.015 to 0.120
Middle Creek	0.040 to 0.050	0.030 to 0.140
Millbrook Tributary to Marsh Creek (Basin 18, Stream 19)	0.035 to 0.050	0.060 to 0.130
Mills Branch (Basin 22, Stream 5)	0.030 to 0.070	0.032 to 0.130
Mine Creek (Basin 18, Stream 31)	0.035 to 0.050	0.015 to 0.150
Mingo Creek (Basin 12, Stream 2)	0.041 to 0.044	0.100 to 0.200
Moccasin Creek	0.030 to 0.070	0.070 to 0.220
Morris Branch	0.030 to 0.050	0.100 to 0.200
Morrisville Tributary (Basin 18, Stream 26)	0.050	0.032 to 0.090
Mud Branch (Basin 4, Stream 15)	0.032 to 0.050	0.035 to 0.090
Nancy Branch	0.045 to 0.050	0.035 to 0.150
Neil Branch (Basin 24, Stream 8)	0.030 to 0.070	0.035 to 0.130
Neil Creek (Basin 24, Stream 7)	0.030 to 0.070	0.055 to 0.110
Neills Creek	0.035 to 0.048	0.100 to 0.150
Neuse River	0.035 to 0.060	0.055 to 0.250
New Hope Tributary to Marsh Creek (Basin 18, Stream 18)	0.035 to 0.065	0.035 to 0.200
New Light Creek	0.032 to 0.070	0.060 to 0.150
Norris Branch	0.048 to 0.050	0.055 to 0.145
NP	0.050	0.050 to 0.150
Panther Branch (Basin 22, Stream 2)	0.050	0.035 to 0.090
Panther Creek	0.030 to 0.070	0.070 to 0.130
Perry Creek (Basin 10, Stream 19)	0.042	0.130
Perry Creek (Basin 15, Stream 26)	0.032 to 0.125	0.015 to 0.200
Perry Creek East Branch (Basin 15, Stream 27)	0.035 to 0.050	0.015 to 0.120
Pigeon House Branch (Basin 18, Stream 27)	0.045 to 0.048	0.015 to 0.120
Poplar Branch (Basin 13, Stream 2)	0.032 to 0.050	0.032 to 0.090
Poplar Creek (Basin 13, Stream 1)	0.050	0.055 to 0.090
Powell Creek (Basin 8, Stream 7)	0.032 to 0.050	0.015 to 0.120
Reedy Branch (Basin 27, Stream 5)	0.045 to 0.050	0.100 to 0.200
Reedy Branch Tributary (Basin 27, Stream 6)	0.045 to 0.050	0.100 to 0.200
Reedy Creek (Basin 6, Stream 8)	0.050	0.045 to 0.090
Reedy Creek Tributary (Basin 20, Stream 9)	0.050 to 0.059	0.035 to 0.090
Richland Creek	0.035 to 0.070	0.035 to 0.200
Richland Creek (Basin 18, Stream 3)	0.030 to 0.048	0.015 to 0.150
Richland Creek Tributary	0.040 to 0.055	0.070 to 0.200
Richland Creek Tributary 2	0.050	0.070 to 0.130
Rocky Branch (Basin 22, Stream 8)	0.050	0.032 to 0.090
Rocky Branch (Basin 30, Stream 5)	0.030 to 0.071	0.016 to 0.120
Rocky Ford Branch (Basin 24, Stream 5)	0.030 to 0.070	0.050 to 0.110
Sanford Creek (Basin 6, Stream 7)	0.050	0.045 to 0.090
Smith Creek	0.032 to 0.050	0.080 to 0.150
Snipes Creek	0.042 to 0.045	0.120 to 0.130
Southeast Prong Beaverdam Creek (Basin 18, Stream 30)	0.050 to 0.055	0.015 to 0.150
Southwest Prong Beaverdam Creek (Basin 18, Stream 29)	0.045 to 0.055	0.015 to 0.150
Spring Branch (Basin 6, Stream 6)	0.050 to 0.065	0.035 to 0.090
Stirrup Iron Creek	0.015 to 0.150	0.032 to 0.170
Straight Branch (Basin 20, Stream 23)	0.032 to 0.050	0.032 to 0.090
Swift Creek	0.032 to 0.072	0.035 to 0.240
Swift Creek Tributary No. 7 (Basin 20, Stream 24)	0.032 to 0.060	0.035 to 0.090
Swift Creek Tributary No. 7A (Basin 20, Stream 25)	0.032 to 0.050	0.032 to 0.090
Sycamore Creek (Basin 18, Stream 6)	0.030 to 0.070	0.035 to 0.150
Terrible Creek (Basin 22, Stream 19)	0.032 to 0.050	0.032 to 0.090
Thomas Creek	0.050	0.145

Table 16 - Roughness Coefficients

Stream	Channel "n"	Overbank "n"
Toms Creek (Basin 7, Stream 1)	0.050	0.030 to 0.090
Tributary to Big Branch Tributary No. 1 (Basin 30, Stream 8)	0.050	0.055 to 0.090
Turkey Creek (Basin 18, Stream 23)	0.055	0.032 to 0.090
Turkey Creek (Basin 18, Stream 5)	0.030 to 0.070	0.012 to 0.150
Turkey Creek Tributary	0.046	0.100 to 0.150
Unnamed Tributary (#1) to Swift Creek	0.045 to 0.060	0.050 to 0.150
Upper Barton Creek (Basin 16, Stream 1)	0.032 to 0.055	0.035 to 0.090
Utley Creek	0.032 to 0.050	0.032 to 0.147
Walnut Creek (Basin 30, Stream 1)	0.038 to 0.060	0.025 to 0.200
West Fork Mine Creek (Basin 18, Stream 33)	0.045 to 0.050	0.070 to 0.120
Wheeler's Creek (Basin 10, Stream 25)	0.050	0.032 to 0.090
White Oak Creek	0.045 to 0.050	0.100 to 0.150
White Oak Creek (Basin 19, Stream 1)	0.035 to 0.050	0.035 to 0.150
White Oak Creek (Basin 26, Stream 1)	0.050	0.080 to 0.150
White Oak Creek (Basin 28, Stream 1)	0.045 to 0.050	0.100 to 0.150
Wildcat Branch (Basin 30, Stream 4)	0.030 to 0.090	0.016 to 0.120
Yates Branch (Basin 20, Stream 13)	0.032 to 0.052	0.032 to 0.120

For flooding sources studied by limited detailed methods in the county, standard hydrologic and hydraulic study methods were used to determine the flood hazard data required for this report and the FIRM panels. This method entails developing a HEC-RAS hydraulic model, resulting in the calculation of BFEs and the delineation of the 1% annual chance floodplain (designated as Zone AE). Cross sections for the flooding sources studied by limited detailed methods were obtained using digital elevation data obtained with LIDAR technology developed as part of the North Carolina Statewide Floodplain Mapping Program. The hydraulic model is prepared using this digital elevation data, without surveying bathymetric or structural data. Where bridge or culvert data are readily available, such as from the North Carolina Department of Transportation, these data have been reflected in the hydraulic model. If these structural data are not readily available, field measurements of these structures were made to approximate their geometry in the hydraulic models. In addition, this method does not include field surveys that determine specifics on channel and floodplain characteristics. A limited detailed study is a “buildable” product that can be upgraded to a fully detailed study at a later date by verifying stream channel characteristics, bridge and culvert opening geometry, and by analyzing multiple recurrence intervals.

The results of the HEC-RAS computations are tabulated for all cross sections (Table 17, “Limited Detailed Flood Hazard Data”). Flood Profiles have not been developed for streams studied by limited detailed methods. Water-surface elevation rasters were developed for streams studied by limited detailed methods. In addition, floodways for streams studied by limited detailed methods are not delineated on the FIRM. However, the 1% annual chance water-surface elevations, flood discharges, and non-encroachment widths from the limited detailed studies for every modeled cross section are given in Table 17. The non-encroachment widths given at modeled cross sections can be used by communities to enforce floodplain management ordinances that meet the requirement defined in 44 CFR 60.3(c)(10).

Between cross sections for streams studied by limited detailed methods, 1% annual chance water-surface elevations can be calculated by mathematical interpolation using the distance along the stream centerline. Non-encroachment widths and, therefore, the location of a non-encroachment area boundary between cross sections should be determined based on either 1) mathematical interpolation, or 2) the non-encroachment width at the upstream or downstream cross section, whichever is larger. If the width determined by this second method is wider than the Special Flood Hazard Area (SFHA) or the 1% annual chance floodplain delineated on the FIRM for this location along the stream, the non-encroachment area shall be considered to be coincident with the SFHA. A full detailed study incorporating field survey data in the HEC-RAS hydraulic model may be submitted for a Letter of Map Revision (LOMR) request to map a regulatory floodway along a section of a stream in lieu of applying the non-encroachment widths listed in Table 17.

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Bagwell Branch (Basin 20, Stream 10)				
138	13847.0	920.0	298.5	51.1 / 58.9
139	13889.0	920.0	298.5	39.3 / 45.7
140	14034.0	920.0	300.9	39.6 / 45.4
141	14136.0	920.0	300.9	89.4 / 35.6
142	14200.0	920.0	300.9	104.6 / 62.4
Basin 10, Stream 5				
077	7725.7	1501.0	285.5	139.0 / 175.0
080	7969.5	1501.0	285.5	129.0 / 200.0
083	8310.7	1501.0	285.5	21.0 / 200.0
089	8866.7	1501.0	285.6	129.0 / 15.0
092	9248.9	1501.0	286.0	122.0 / 12.0
097	9726.9	1501.0	287.6	61.0 / 12.0
101	10102.9	1501.0	289.4	70.0 / 50.0
104	10442.4	1289.0	291.4	22.0 / 123.0
Basin 10, Stream 6				
045	4500.0	2058.0	272.5	75.0 / 125.0
050	5000.0	2058.0	273.4	175.0 / 175.0
055	5500.0	2058.0	274.1	171.0 / 200.0
060	6000.0	2058.0	275.5	91.0 / 100.0
065	6500.0	2058.0	277.6	107.0 / 140.0
070	7000.0	2058.0	280.6	121.0 / 45.0
075	7500.0	2058.0	284.5	98.0 / 45.0
080	8000.0	2058.0	286.8	33.0 / 84.0
085	8505.8	1594.0	287.7	53.0 / 188.0
090	9000.0	1594.0	288.4	77.0 / 27.0
100	10000.0	1594.0	294.0	75.0 / 15.0
105	10500.0	1594.0	298.6	76.0 / 50.0
110	11000.0	1594.0	303.8	22.0 / 67.0
116	11623.1	1594.0	309.6	50.0 / 50.0
121	12119.2	1594.0	317.6	25.0 / 74.0
124	12432.6	1594.0	321.6	50.0 / 73.0
130	13000.0	1594.0	329.7	120.0 / 60.0
134	13439.8	1594.0	339.4	100.0 / 70.0
Basin 10, Stream 13				
010	1000.0	1101.0	275.9 ¹	64.0 / 63.0
014	1416.7	1101.0	275.9 ¹	25.0 / 133.0
020	2043.6	1101.0	279.6	68.0 / 19.0
025	2517.4	1101.0	282.8	25.0 / 102.0
028	2827.4	1007.0	284.1	60.0 / 25.0
039	3911.2	1007.0	293.8	50.0 / 25.0
047	4706.2	1007.0	301.9	50.0 / 30.0
054	5426.8	1007.0	307.7	25.0 / 45.0
060	6047.6	1007.0	312.7	25.0 / 15.0

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Basin 10, Stream 13				
066	6631.6	1007.0	319.2	35.0 / 10.0
072	7225.0	1007.0	326.3	10.0 / 20.0
078	7767.2	1007.0	331.5	15.0 / 20.0
084	8411.5	1007.0	338.0	15.0 / 10.0
090	9000.0	1007.0	344.4	10.0 / 10.0
Basin 10, Stream 14				
010	955.7	2674.0	267.0 ¹	11.0 / 709.0
018	1753.4	2674.0	267.0 ¹	11.0 / 528.0
023	2290.7	2674.0	267.0 ¹	11.0 / 282.0
027	2697.9	2674.0	267.9	11.0 / 241.0
032	3241.3	2674.0	270.3	125.0 / 14.0
034	3412.2	2674.0	275.6	125.0 / 14.0
040	4040.6	2273.0	275.9	150.0 / 175.0
049	4939.3	2273.0	276.5	57.0 / 92.0
053	5328.9	2273.0	277.0	185.0 / 14.0
061	6072.1	2273.0	278.0	126.0 / 101.0
065	6500.0	2273.0	278.6	242.0 / 26.0
070	7000.0	2273.0	280.3	20.0 / 112.0
075	7500.0	2273.0	282.4	90.0 / 28.0
078	7803.0	2273.0	283.1	109.0 / 22.0
080	8015.3	2273.0	287.4	109.0 / 22.0
083	8343.1	2273.0	287.7	100.0 / 46.0
088	8825.9	2273.0	288.7	80.0 / 50.0
094	9391.9	2432.0	290.2	100.0 / 60.0
101	10083.3	2432.0	292.2	110.0 / 70.0
103	10315.3	2432.0	293.4	90.0 / 25.0
106	10641.6	2432.0	300.5	350.0 / 190.0
110	11000.0	2432.0	300.5	160.0 / 146.0
115	11500.0	2432.0	300.6	102.0 / 84.0
120	12000.0	2432.0	300.6	108.0 / 95.0
125	12500.0	2432.0	300.7	119.0 / 181.0
133	13267.4	2432.0	304.2	71.0 / 91.0
Basin 11, Stream 4				
009	871.5	1681.0	239.5 ¹	217.0 / 45.0
029	2942.2	1681.0	240.3	256.0 / 85.0
043	4266.5	1681.0	247.0	254.0 / 71.0
052	5206.2	1416.0	247.1	190.0 / 378.0
065	6476.0	1416.0	250.0	78.0 / 9.0
071	7067.3	1416.0	254.6	10.0 / 135.0
078	7753.4	1416.0	256.2	49.0 / 204.0
083	8280.3	1310.0	257.2	133.0 / 110.0
097	9655.4	1310.0	267.2	73.0 / 5.0
106	10636.0	1310.0	273.4	99.0 / 152.0
113	11309.0	1194.0	274.9	146.0 / 108.0

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Basin 11, Stream 4				
121	12112.6	1194.0	276.9	27.0 / 97.0
127	12718.7	1053.0	278.9	59.0 / 15.0
133	13252.9	1053.0	280.9	56.0 / 89.0
137	13721.8	1053.0	281.9	146.0 / 22.0
142	14206.7	995.0	283.0	72.0 / 61.0
148	14811.0	870.0	284.7	123.0 / 44.0
155	15453.4	870.0	287.0	98.0 / 5.0
168	16757.4	870.0	302.2	85.0 / 100.0
174	17407.6	687.0	303.3	14.0 / 84.0
179	17869.6	571.0	305.9	4.0 / 97.0
189	18915.6	571.0	322.9	55.0 / 53.0
194	19377.0	571.0	324.8	4.0 / 33.0
200	19986.0	571.0	332.2	22.0 / 24.0
210	21007.9	571.0	341.3	11.0 / 16.0
Basin 11, Stream 7				
001	123.4	406.0	278.1	14.0 / 61.0
004	357.8	406.0	281.4	4.0 / 27.0
006	601.6	406.0	283.4	24.0 / 21.0
009	861.9	406.0	284.9	25.0 / 4.0
014	1427.6	406.0	293.0	150.0 / 60.0
017	1709.3	406.0	295.6	15.0 / 15.0
021	2051.0	406.0	301.3	32.0 / 4.0
024	2383.6	406.0	308.2	110.0 / 40.0
Basin 12, Stream 3				
073	7331.6	690.0	269.1	28.0 / 41.0
078	7837.6	690.0	272.2	22.0 / 21.0
083	8317.8	690.0	279.2	12.0 / 25.0
088	8750.1	690.0	283.9	12.0 / 31.0
093	9273.9	690.0	293.1	34.0 / 8.0
Basin 14, Stream 2				
009	935.6	1335.0	182.8 ¹	14.0 / 128.0
016	1632.4	1335.0	184.0	13.0 / 114.0
024	2434.2	1306.0	187.6	72.4 / 83.1
031	3073.9	1306.0	190.9	82.9 / 13.4
037	3741.1	1306.0	193.9	82.6 / 29.6
043	4330.3	1306.0	195.3	78.2 / 68.8
049	4944.5	1306.0	196.8	132.2 / 24.5
057	5723.5	947.0	200.1	12.0 / 107.3
065	6522.4	947.0	205.0	41.0 / 16.5
071	7123.5	947.0	207.7	12.1 / 79.9
078	7816.8	947.0	214.9	18.0 / 18.0
083	8255.1	947.0	215.2	75.2 / 67.8
088	8764.9	947.0	216.2	53.9 / 24.9
093	9279.7	947.0	219.9	44.4 / 12.0

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Basin 14, Stream 2				
098	9824.4	947.0	224.9	13.2 / 23.5
Basin 14, Stream 3				
004	385.8	410.0	202.5 ¹	14.0 / 79.0
009	863.8	410.0	205.9	14.0 / 19.0
018	1775.4	410.0	213.3	5.0 / 5.0
023	2310.7	410.0	220.2	5.0 / 5.0
029	2917.9	410.0	227.6	5.0 / 5.0
035	3465.7	410.0	235.5	5.0 / 5.0
039	3866.8	410.0	243.8	5.0 / 4.0
Basin 20, Stream 5				
020	2024.0	800.0	202.8 ¹	35.9 / 92.1
026	2566.0	800.0	202.8 ¹	35.7 / 89.4
030	2976.0	800.0	204.3	52.8 / 72.2
032	3202.0	800.0	206.3	37.0 / 91.0
036	3568.0	800.0	209.2	18.5 / 91.5
039	3913.0	800.0	210.7	70.7 / 15.3
041	4136.0	800.0	212.2	45.3 / 40.7
044	4397.0	800.0	214.3	87.1 / 18.9
048	4807.0	800.0	218.2	59.7 / 17.3
049	4931.0	800.0	219.5	64.0 / 16.0
051	5138.0	800.0	222.0	63.7 / 22.3
054	5385.0	800.0	224.0	45.4 / 44.6
057	5672.0	800.0	226.6	39.1 / 41.0
059	5911.0	800.0	228.6	48.3 / 31.7
061	6107.0	800.0	231.1	50.3 / 28.7
064	6403.0	800.0	233.3	29.9 / 50.1
066	6575.0	800.0	235.3	12.6 / 72.4
066	6643.0	800.0	236.1	10.7 / 69.3
068	6763.0	800.0	237.3	14.0 / 49.1
068	6817.0	800.0	238.4	12.8 / 37.2
070	6965.0	800.0	242.2	40.2 / 19.8
072	7202.0	800.0	245.1	60.8 / 15.2
074	7418.0	800.0	247.5	23.8 / 25.2
077	7712.0	800.0	251.5	25.9 / 16.1
079	7879.0	800.0	252.8	15.1 / 24.9
080	8024.0	800.0	253.9	16.0 / 24.0
082	8221.0	800.0	256.8	15.5 / 13.5
Basin 23, Stream 2				
005	500.0	751.0	234.0 ²	248.0 / 3.0
010	1000.0	751.0	235.1	3.0 / 120.0
015	1500.0	751.0	237.7	163.0 / 5.0
021	2126.8	309.0	239.8	4.0 / 50.0
025	2484.5	309.0	243.8	20.0 / 14.0
028	2839.3	309.0	248.7	41.0 / 6.0

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Basin 23, Stream 2				
031	3077.0	309.0	259.8	93.0 / 104.0
034	3355.3	309.0	259.8	30.0 / 20.0
038	3764.2	309.0	263.2	18.0 / 20.0
042	4218.8	309.0	266.5	13.0 / 31.0
048	4835.1	309.0	278.2	5.0 / 7.0
053	5310.2	206.0	284.1	11.0 / 6.0
058	5810.2	206.0	289.4	5.0 / 6.0
063	6310.2	206.0	295.2	14.0 / 10.0
068	6797.7	206.0	302.7	13.0 / 23.0
073	7343.6	206.0	307.9	12.0 / 25.0
077	7713.4	206.0	309.7	40.0 / 30.0
082	8206.0	206.0	314.3	6.0 / 6.0
087	8716.6	206.0	318.8	29.0 / 4.0
092	9234.0	206.0	320.1	38.0 / 4.0
Basin 23, Stream 3				
004	422.7	474.0	285.4	12.0 / 28.0
008	833.1	474.0	289.7	89.0 / 89.0
013	1340.4	474.0	289.8	74.0 / 70.0
018	1837.6	474.0	294.4	4.0 / 40.0
023	2314.3	330.0	298.4	10.0 / 19.0
028	2814.3	330.0	305.3	9.0 / 8.0
033	3315.6	330.0	315.3	6.0 / 9.0
039	3874.6	330.0	324.0	17.0 / 44.0
044	4403.8	330.0	325.0	13.0 / 4.0
057	5695.7	248.0	333.0	10.0 / 4.0
063	6324.8	248.0	336.7	15.0 / 30.0
068	6813.8	248.0	339.3	4.0 / 25.0
074	7365.9	248.0	344.3	10.0 / 30.0
079	7890.3	248.0	348.4	9.0 / 14.0
084	8369.9	248.0	353.8	4.0 / 21.0
089	8891.6	248.0	360.1	14.0 / 19.0
Basin 23, Stream 4				
002	177.9	285.0	295.8 ¹	14.0 / 14.0
010	991.5	285.0	308.8	14.0 / 25.0
014	1391.4	285.0	315.2	14.0 / 14.0
018	1847.4	285.0	321.7	14.0 / 14.0
023	2268.0	285.0	328.1	14.0 / 14.0
024	2423.0	285.0	332.7	14.0 / 14.0
028	2825.9	285.0	337.3	14.0 / 14.0
033	3255.7	285.0	343.0	14.0 / 14.0
037	3730.4	285.0	347.6	14.0 / 25.0
042	4173.6	285.0	351.5	14.0 / 14.0
Basin 23, Stream 5				
002	169.8	416.0	303.0 ¹	46.0 / 28.1

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Basin 23, Stream 5				
006	551.6	416.0	303.3	4.0 / 29.0
011	1085.1	416.0	306.3	86.0 / 12.0
015	1547.1	348.0	308.5	29.0 / 9.0
020	2043.9	348.0	312.4	45.0 / 10.0
026	2606.6	348.0	317.0	4.0 / 59.0
028	2764.4	348.0	317.6	63.0 / 223.0
033	3344.1	348.0	322.7	25.0 / 15.0
040	3978.4	348.0	328.4	40.0 / 25.0
046	4609.1	348.0	330.8	27.0 / 31.0
Basin 28, Stream 7				
003	346.9	806.0	276.1	23.0 / 98.0
008	754.0	806.0	279.5	62.0 / 37.0
012	1233.9	806.0	283.7	25.0 / 53.0
016	1644.6	806.0	286.6	60.0 / 33.0
021	2131.2	462.0	289.8	32.0 / 35.0
Beaverdam Creek				
227	22654.1	523.0	329.6	40.0 / 80.0
Big Branch				
000	3.3	1170.0	232.2 ¹	270.0 / 93.0
000	5.0	1170.0	232.2 ¹	175.0 / 175.0
000	45.0	1170.0	232.2 ¹	175.0 / 175.0
002	187.4	1170.0	232.2 ¹	266.0 / 15.0
006	601.6	1170.0	232.2 ¹	167.0 / 15.0
010	966.6	1170.0	232.2 ¹	300.0 / 20.0
017	1723.4	1170.0	232.2 ¹	295.0 / 15.0
022	2175.3	1170.0	232.2 ¹	151.0 / 75.0
025	2540.0	1170.0	232.2 ¹	125.0 / 58.0
030	3008.7	1011.0	232.2 ¹	14.0 / 146.0
035	3477.7	1011.0	232.4	109.0 / 56.0
036	3610.8	1011.0	232.8	58.0 / 15.0
037	3733.8	1011.0	245.2	58.0 / 15.0
044	4375.6	975.0	245.2	62.0 / 289.0
047	4689.4	975.0	245.2	130.0 / 279.0
051	5099.6	975.0	245.2	141.0 / 152.0
054	5425.2	927.0	245.2	193.0 / 61.0
057	5743.6	927.0	245.3	197.0 / 43.0
062	6178.3	927.0	245.3	14.0 / 243.0
066	6571.4	844.0	245.4	134.0 / 26.0
071	7095.6	844.0	245.6	148.0 / 13.0
075	7472.3	844.0	245.7	235.0 / 13.0
079	7897.0	766.0	245.7	13.0 / 16.0
084	8375.3	766.0	248.3	15.0 / 82.0
089	8850.3	766.0	249.6	15.0 / 17.0
092	9198.8	694.0	251.5	13.0 / 48.0

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Big Branch				
097	9674.5	694.0	253.7	13.0 / 37.0
099	9939.7	694.0	255.0	16.0 / 16.0
102	10171.7	694.0	261.3	16.0 / 16.0
106	10588.9	418.0	261.5	171.0 / 34.0
109	10946.2	394.0	261.5	20.0 / 13.0
113	11265.2	394.0	261.9	10.0 / 10.0
118	11800.4	286.0	265.6	10.0 / 13.0
122	12157.0	286.0	267.9	10.0 / 15.0
125	12528.2	286.0	272.6	40.0 / 12.0
130	13007.2	286.0	277.4	30.0 / 16.0
134	13381.4	251.0	279.3	13.0 / 12.0
139	13902.8	251.0	283.3	7.0 / 10.0
142	14247.5	198.0	287.9	11.0 / 11.0
146	14620.6	198.0	291.4	11.0 / 7.0
150	15025.4	198.0	297.7	9.0 / 7.0
Black Creek				
1474	147375.0	3190.0	213.1	289.8 / 190.1
1490	149043.0	3190.0	216.0	181.0 / 219.0
1502	150164.0	3140.0	218.2	25.9 / 304.1
1508	150843.0	3140.0	219.9	245.0 / 98.0
1519	151857.0	3140.0	221.3	146.4 / 173.6
1529	152884.0	3140.0	223.2	239.8 / 60.2
1538	153788.0	3140.0	225.1	66.2 / 233.8
1543	154255.0	3140.0	226.4	216.7 / 83.3
1548	154762.0	3080.0	227.8	68.7 / 196.3
1551	155139.0	3080.0	229.2	108.7 / 111.3
1553	155277.0	3080.0	231.2	107.2 / 112.8
1556	155569.0	3080.0	231.5	182.2 / 57.8
1562	156161.0	3080.0	231.9	228.6 / 71.4
1569	156852.0	3080.0	232.4	263.6 / 36.4
1573	157325.0	2760.0	233.7	303.3 / 9.7
1578	157752.0	2760.0	234.4	27.3 / 272.7
1585	158526.0	2760.0	235.6	54.8 / 245.2
1595	159472.0	2760.0	238.0	222.0 / 11.0
1603	160265.0	2760.0	239.5	77.6 / 77.4
1611	161111.0	2760.0	241.7	75.0 / 75.0
1616	161574.0	2720.0	244.3	115.2 / 54.8
1619	161861.0	2720.0	244.9	137.5 / 32.5
1621	162060.0	2720.0	246.5	141.4 / 28.6
1622	162235.0	2720.0	246.9	211.8 / 63.2
1629	162918.0	2700.0	248.2	115.6 / 96.4
1635	163472.0	2700.0	251.1	159.4 / 24.6
1636	163603.0	2700.0	262.5	248.9 / 246.1
1645	164498.0	2700.0	262.5	309.7 / 308.3

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Black Creek				
1656	165580.0	2700.0	262.5	235.3 / 233.7
1668	166794.0	2700.0	262.6	389.3 / 74.7
1679	167864.0	2560.0	262.9	276.7 / 171.3
1690	168961.0	2560.0	263.7	187.7 / 128.3
1696	169621.0	2560.0	265.2	99.0 / 136.1
1702	170241.0	2560.0	267.2	123.4 / 122.6
1711	171090.0	2420.0	268.6	129.0 / 117.0
1718	171795.0	2420.0	270.9	115.1 / 84.9
1725	172522.0	2420.0	274.5	37.4 / 162.6
1732	173160.0	2350.0	276.7	81.9 / 50.1
1734	173415.0	2350.0	277.7	37.0 / 45.0
1736	173570.0	2350.0	278.7	46.4 / 45.6
1737	173739.0	2350.0	279.3	77.1 / 87.9
1742	174249.0	2350.0	279.8	40.2 / 159.8
1748	174794.0	2350.0	280.4	159.2 / 40.8
1753	175313.0	2350.0	281.5	95.4 / 74.6
1758	175781.0	2120.0	283.9	71.2 / 101.8
1763	176281.0	2120.0	284.7	23.6 / 143.4
1766	176568.0	2120.0	295.1	292.4 / 284.6
1769	176934.0	2120.0	295.1	338.0 / 337.0
1774	177364.0	2120.0	295.1	236.2 / 229.8
1780	177974.0	2120.0	295.1	207.6 / 206.4
1783	178328.0	2120.0	295.1	25.1 / 517.9
1785	178522.0	2120.0	295.2	10.2 / 570.8
1786	178620.0	2120.0	296.0	10.3 / 590.0
1787	178678.0	2120.0	296.1	7.9 / 573.8
1791	179112.0	2120.0	302.9	378.3 / 386.7
1796	179573.0	2120.0	302.9	332.5 / 266.5
1802	180166.0	2120.0	302.9	230.8 / 230.3
1806	180584.0	2120.0	303.0	178.7 / 178.4
1809	180906.0	1810.0	303.0	180.5 / 179.5
1812	181237.0	1810.0	306.3	486.4 / 30.6
1814	181372.0	1810.0	311.2	290.9 / 291.1
1818	181796.0	1810.0	311.2	265.9 / 265.1
1824	182414.0	1810.0	311.2	264.4 / 263.6
1830	182957.0	1810.0	311.2	193.1 / 191.9
1833	183341.0	1360.0	311.2	173.8 / 26.2
1835	183524.0	1360.0	311.2	157.5 / 22.5
1838	183828.0	1360.0	311.4	57.1 / 67.9
1841	184080.0	1360.0	312.2	61.3 / 58.7
1844	184376.0	1360.0	314.0	20.6 / 99.4
1848	184779.0	1360.0	316.0	96.2 / 23.8
1851	185149.0	1360.0	318.0	31.4 / 68.6
1853	185335.0	1360.0	319.2	42.8 / 47.2

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Black Creek				
1855	185539.0	1360.0	320.1	45.2 / 44.8
1858	185823.0	1360.0	320.4	20.9 / 69.1
1860	185997.0	1360.0	321.4	72.5 / 24.5
1861	186075.0	1360.0	321.6	71.6 / 25.4
1863	186317.0	1360.0	322.4	49.7 / 50.3
1865	186464.0	1360.0	323.0	58.0 / 42.0
1867	186684.0	1360.0	324.2	53.3 / 46.7
Cedar Fork (Basin 10, Stream 15)				
002	158.4	2368.0	287.0 ¹	55.0 / 40.0
016	1644.4	2368.0	301.3	188.0 / 182.0
023	2260.8	2368.0	301.3	175.0 / 75.0
030	3044.1	2368.0	304.6	235.0 / 106.0
035	3479.7	2368.0	305.4	323.0 / 9.0
040	4038.8	2316.0	306.6	172.0 / 28.0
045	4503.2	2316.0	307.5	288.0 / 18.0
049	4919.8	2316.0	308.3	80.0 / 5.0
054	5374.2	2316.0	311.1	169.0 / 100.0
060	6009.3	2316.0	312.0	134.0 / 183.0
068	6794.6	2316.0	313.3	234.0 / 185.0
072	7226.5	2316.0	314.1	252.0 / 6.0
077	7663.8	2316.0	314.9	244.0 / 44.0
085	8530.4	2219.0	316.5	248.0 / 84.0
091	9087.0	2219.0	318.5	62.0 / 120.0
097	9660.6	2219.0	320.3	210.0 / 140.0
103	10268.2	2219.0	321.5	200.0 / 100.0
111	11052.1	1995.0	324.6	132.0 / 50.0
116	11620.0	1995.0	326.2	277.0 / 50.0
123	12259.8	1995.0	329.1	48.0 / 40.0
127	12712.5	1995.0	333.1	133.0 / 50.0
132	13195.8	1995.0	334.9	50.0 / 89.0
137	13686.2	1995.0	338.5	50.0 / 50.0
142	14182.5	1995.0	340.9	40.0 / 126.0
147	14670.9	1995.0	342.3	40.0 / 98.0
153	15337.8	1995.0	345.9	66.0 / 78.0
160	15970.0	1995.0	348.7	50.0 / 133.0
164	16364.0	1995.0	350.4	50.0 / 141.0
169	16921.2	1307.0	353.7	50.0 / 73.0
174	17412.2	1307.0	357.5	68.0 / 33.0
177	17740.8	1307.0	360.1	203.0 / 127.0
Clark Branch (Basin 28, Stream 3)				
007	737.7	1360.0	257.1	243.0 / 13.0
011	1087.0	1360.0	258.9	14.0 / 59.0
015	1544.1	1360.0	261.8	109.0 / 13.0
020	1951.2	1360.0	264.2	34.0 / 13.0

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Clark Branch (Basin 28, Stream 3)				
024	2421.5	1360.0	267.0	57.0 / 34.0
029	2909.9	1360.0	269.0	53.0 / 75.0
034	3423.7	1360.0	272.9	20.0 / 15.0
038	3779.5	1360.0	277.4	50.0 / 40.0
039	3879.5	1360.0	281.3	50.0 / 40.0
042	4240.5	1360.0	282.0	71.4 / 53.7
048	4766.1	1360.0	282.9	15.2 / 131.2
053	5333.5	785.0	285.7	11.5 / 41.9
058	5767.9	785.0	290.5	10.7 / 19.2
062	6203.8	785.0	297.1	11.3 / 56.0
066	6590.6	785.0	302.0	35.6 / 17.7
Coles Branch (Basin 18, Stream 24)				
110	10976.1	1772.0	368.9	49.8 / 100.3
113	11292.1	894.0	370.3	84.9 / 50.1
116	11599.1	894.0	372.0	16.1 / 95.9
Dutchmans Branch (Basin 20, Stream 17)				
258	25770.0	1967.0	391.2	85.7 / 14.3
258	25819.0	1511.0	392.2	77.5 / 38.6
259	25893.0	1511.0	395.4	53.8 / 66.2
262	26220.0	1511.0	395.7	132.2 / 100.8
266	26554.0	1511.0	395.9	162.4 / 27.6
Fowlers Mill Creek (Basin 10, Stream 12)				
006	648.0	3101.0	266.3 ¹	158.0 / 90.0
011	1085.6	3101.0	266.3 ¹	191.0 / 90.0
015	1471.5	3101.0	266.3 ¹	100.0 / 125.0
020	2032.8	3101.0	266.3	50.0 / 150.0
026	2583.8	3101.0	267.2	200.0 / 90.0
030	3022.6	3101.0	267.9	170.0 / 80.0
039	3948.9	3101.0	272.6	37.0 / 200.0
044	4389.6	3101.0	274.2	209.0 / 202.0
050	5047.5	3101.0	275.9	209.0 / 202.0
055	5529.8	3101.0	277.5	209.0 / 202.0
071	7091.6	2556.0	286.0	431.0 / 273.0
081	8129.9	1590.0	286.1	276.0 / 428.0
088	8752.9	1590.0	289.9	35.0 / 30.0
093	9274.6	1590.0	298.5	48.0 / 126.0
098	9786.7	1373.0	301.9	116.0 / 50.0
103	10334.9	1373.0	308.5	30.0 / 50.0
107	10653.0	1373.0	312.6	26.0 / 35.0
Guffy Branch (Basin 21, Stream 4)				
005	500.0	1029.0	231.3 ¹	121.0 / 97.0
010	1027.6	1029.0	233.3	16.0 / 109.0
015	1500.0	1029.0	235.6	23.0 / 32.0
027	2748.6	923.0	241.8	22.0 / 44.0

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Guffy Branch (Basin 21, Stream 4)				
033	3290.1	923.0	246.1	53.0 / 33.0
039	3855.2	923.0	247.6	37.0 / 158.0
044	4373.9	923.0	249.1	5.0 / 175.0
049	4860.3	923.0	250.9	31.0 / 53.0
053	5340.2	923.0	252.5	94.0 / 16.0
058	5775.3	923.0	253.9	12.0 / 22.0
063	6275.3	853.0	256.4	28.0 / 8.0
068	6775.3	853.0	258.5	60.0 / 15.0
073	7275.3	853.0	260.2	41.0 / 74.0
078	7775.3	853.0	262.2	4.0 / 159.0
083	8275.3	853.0	264.1	40.0 / 103.0
088	8775.3	853.0	266.4	38.0 / 80.0
092	9228.2	853.0	268.9	77.0 / 34.0
098	9793.1	764.0	271.0	70.0 / 110.0
103	10341.7	764.0	272.6	3.0 / 116.0
108	10801.2	764.0	275.4	45.0 / 99.0
113	11314.1	764.0	278.1	35.0 / 76.0
118	11820.7	764.0	280.5	111.0 / 6.0
123	12320.7	764.0	282.3	66.0 / 34.0
128	12800.5	764.0	284.2	81.0 / 7.0
133	13331.0	660.0	286.7	7.0 / 128.0
138	13812.4	660.0	288.8	49.0 / 51.0
143	14268.6	660.0	291.3	93.0 / 11.0
148	14768.6	517.0	293.7	40.0 / 31.0
153	15268.6	517.0	296.7	2.0 / 108.0
158	15793.2	517.0	300.3	2.0 / 99.0
162	16223.6	517.0	304.6	2.0 / 61.0
167	16727.7	517.0	309.3	46.0 / 26.0
172	17233.6	452.0	311.9	22.0 / 4.0
177	17733.6	452.0	315.0	50.0 / 10.0
183	18276.1	410.0	318.9	4.0 / 27.0
187	18745.0	410.0	323.1	8.0 / 14.0
192	19212.1	410.0	328.5	17.0 / 13.0
197	19743.4	287.0	331.8	27.0 / 9.0
202	20196.3	287.0	336.3	4.0 / 7.0
206	20647.6	287.0	341.5	20.0 / 60.0
211	21068.0	287.0	344.7	14.0 / 13.0
216	21564.7	287.0	347.7	15.0 / 90.0
221	22065.0	287.0	350.5	6.0 / 4.0
226	22632.5	287.0	354.7	25.0 / 45.0
Hatchet Grove Tributary (Basin 18, Stream 25)				
108	10814.0	1726.0	330.9	241.7 / 243.4
117	11719.0	1726.0	330.9	236.6 / 258.4
126	12582.0	1430.0	330.9	90.1 / 94.9

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Hatchet Grove Tributary (Basin 18, Stream 25)				
130	13011.0	1159.0	330.9	60.9 / 104.1
133	13344.0	1159.0	330.9	16.1 / 40.9
137	13677.0	1159.0	333.1	85.2 / 47.6
139	13874.0	1159.0	334.2	85.6 / 48.4
141	14112.0	1159.0	334.7	32.4 / 52.6
143	14300.0	1159.0	336.1	19.1 / 15.9
Hodges Creek (Basin 8, Stream 1)				
163	16292.6	2390.0	226.0	18.0 / 143.0
170	16975.3	2390.0	229.9	17.0 / 21.0
175	17537.3	2390.0	234.8	39.0 / 65.0
180	18007.6	2390.0	236.9	20.0 / 173.0
183	18306.7	1880.0	237.7	29.0 / 92.0
191	19053.6	1880.0	247.9	102.0 / 23.0
195	19534.2	1880.0	254.2	34.0 / 48.0
200	19952.3	1780.0	267.4	34.0 / 27.0
204	20369.2	1780.0	273.2	21.0 / 41.0
209	20932.7	1780.0	277.4	53.0 / 41.0
214	21377.0	1780.0	280.9	29.0 / 25.0
222	22159.6	1780.0	290.5	93.0 / 130.0
226	22625.7	1450.0	290.6	212.0 / 86.0
230	23047.4	1450.0	290.8	154.0 / 64.0
235	23515.8	1450.0	291.8	90.0 / 156.0
241	24116.5	1450.0	295.5	170.0 / 33.0
246	24623.3	1450.0	300.1	15.0 / 100.0
250	25030.3	1450.0	302.7	132.0 / 43.0
255	25521.0	816.0	304.5	185.0 / 48.0
262	26210.0	816.0	308.5	12.0 / 32.0
269	26851.9	816.0	313.8	92.0 / 51.0
273	27336.4	756.0	317.4	76.0 / 12.0
278	27788.8	756.0	322.0	101.0 / 12.0
283	28293.1	756.0	325.1	16.0 / 54.0
287	28690.8	756.0	329.8	50.0 / 12.0
291	29142.4	756.0	336.8	14.0 / 12.0
Hominy Creek (Basin 10, Stream 7)				
021	2375.0	2445.0	252.5 ¹	180.0 / 120.0
026	2812.4	2445.0	252.5 ¹	200.0 / 180.0
030	3225.6	2445.0	252.5 ¹	190.0 / 190.0
033	3534.1	2445.0	253.6	100.0 / 125.0
039	4192.1	2445.0	256.7	175.0 / 45.0
045	4802.9	2375.0	259.4	140.0 / 75.0
052	5471.1	2375.0	264.4	90.0 / 50.0
057	5984.2	2375.0	267.9	183.0 / 137.0
063	6529.8	2375.0	268.7	74.0 / 163.0
069	7105.5	1912.0	270.5	14.0 / 200.0

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Hominy Creek (Basin 10, Stream 7)				
080	8207.9	1912.0	274.5	349.0 / 269.0
086	8824.3	1912.0	274.5	173.0 / 83.0
095	9733.2	1912.0	277.0	120.0 / 120.0
100	10247.8	1829.0	278.4	80.0 / 40.0
105	10706.8	1829.0	282.2	80.0 / 140.0
112	11432.4	1829.0	287.4	130.0 / 100.0
116	11892.2	1829.0	287.6	169.0 / 100.0
123	12554.1	1829.0	288.2	104.0 / 100.0
130	13227.6	1829.0	290.7	105.0 / 167.0
134	13698.9	1829.0	294.4	50.0 / 75.0
146	14890.7	1829.0	313.0	23.0 / 256.0
151	15339.3	1262.0	313.2	233.0 / 155.0
158	16059.2	1262.0	316.7	12.0 / 61.0
166	16820.3	1262.0	328.1	126.0 / 48.0
173	17591.7	1262.0	330.4	36.0 / 35.0
177	17989.6	1262.0	336.6	46.0 / 35.0
Horse Creek Tributary 1				
004	412.4	900.0	340.5 ¹	37.1 / 56.3
005	540.4	900.0	344.2	49.0 / 51.3
008	795.8	900.0	344.4	99.9 / 99.3
Jack Branch (Basin 28, Stream 4)				
006	572.0	1610.0	274.1	40.0 / 243.0
016	1563.0	1610.0	279.9	10.0 / 234.0
020	1975.0	1610.0	282.6	10.0 / 208.0
024	2420.0	1610.0	285.4	114.0 / 107.0
031	3056.0	1610.0	289.6	134.5 / 64.9
033	3283.0	1610.0	291.6	85.6 / 70.2
034	3383.0	1610.0	292.6	80.0 / 75.0
034	3433.0	1610.0	292.9	102.0 / 94.0
038	3763.0	1610.0	296.6	95.0 / 108.0
038	3813.0	1610.0	296.8	93.0 / 90.0
039	3863.0	1610.0	297.0	100.0 / 76.0
039	3883.0	1610.0	297.0	100.0 / 77.0
044	4440.0	1380.0	299.0	94.7 / 70.4
051	5123.0	1380.0	303.5	76.9 / 65.8
054	5432.0	1380.0	305.9	80.4 / 6.4
058	5810.0	1380.0	308.6	50.6 / 58.4
062	6185.0	1380.0	311.0	20.0 / 80.0
063	6262.0	1380.0	311.6	20.0 / 80.0
067	6671.0	1380.0	315.3	28.0 / 77.0
067	6671.0	1380.0	315.3	28.1 / 77.5
070	6988.0	1380.0	319.0	66.0 / 65.0
073	7304.0	490.0	322.3	6.0 / 35.0
077	7675.0	490.0	330.7	10.0 / 19.0

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Jim Branch				
002	226.6	1082.0	232.2 ¹	13.0 / 147.0
006	568.0	1082.0	232.2 ¹	13.0 / 80.0
009	871.4	1082.0	232.2 ¹	44.0 / 20.0
012	1221.2	1082.0	232.2 ¹	21.0 / 45.0
015	1529.7	1082.0	232.2 ¹	15.0 / 28.0
019	1856.7	1082.0	233.9	13.0 / 49.0
022	2174.1	1082.0	235.2	13.0 / 65.0
025	2525.4	1011.0	236.7	22.0 / 79.0
028	2844.5	1011.0	237.7	13.0 / 53.0
033	3347.1	816.0	240.5	16.0 / 121.0
038	3785.8	816.0	242.5	33.0 / 18.0
042	4244.7	816.0	245.6	19.0 / 96.0
046	4591.0	816.0	246.9	12.0 / 110.0
049	4935.2	816.0	249.1	12.0 / 88.0
053	5258.0	816.0	251.9	19.0 / 28.0
Juniper Branch (Basin 21, Stream 2)				
005	500.0	700.0	262.1	41.0 / 52.0
009	926.4	700.0	264.5	133.0 / 5.0
014	1422.0	700.0	267.3	75.0 / 3.0
019	1922.0	700.0	270.6	36.0 / 6.0
024	2422.0	700.0	273.6	34.0 / 15.0
029	2922.0	700.0	277.7	18.0 / 44.0
034	3422.0	700.0	281.5	11.0 / 54.0
039	3915.6	700.0	285.2	105.0 / 3.0
044	4359.2	700.0	288.6	15.0 / 20.0
049	4855.6	607.0	293.7	155.0 / 45.0
053	5283.4	607.0	298.3	65.0 / 65.0
058	5772.3	607.0	302.6	83.0 / 4.0
063	6272.3	607.0	303.8	2.0 / 71.0
068	6825.1	557.0	306.2	25.0 / 50.0
080	8013.0	557.0	315.2	2.0 / 37.0
085	8473.6	557.0	320.8	50.0 / 65.0
090	9012.0	489.0	323.6	25.0 / 15.0
095	9512.0	489.0	326.7	25.0 / 17.0
Kenneth Creek (Basin 24, Stream 2)				
247	24684.8	3389.0	256.5	18.0 / 113.0
251	25063.4	3389.0	257.7	12.0 / 229.0
254	25350.4	3389.0	258.3	78.0 / 87.0
261	26063.9	2194.0	260.7	40.0 / 52.0
Lens Branch (Basin 20, Stream 22)				
158	15793.0	1779.0	383.8	106.1 / 25.9
162	16155.0	1779.0	383.8	299.7 / 16.4
164	16375.0	1779.0	383.9	218.8 / 16.0
166	16567.0	1779.0	384.0	172.5 / 16.0

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Lens Branch (Basin 20, Stream 22)				
168	16782.0	1779.0	384.2	179.5 / 13.6
170	16983.0	1779.0	384.5	142.3 / 41.5
170	16997.0	1779.0	384.5	140.8 / 41.5
175	17465.0	1779.0	385.4	14.0 / 250.5
Little Beaverdam Creek (Basin 2, Stream 2)				
029	2885.1	1690.0	265.5 ¹	50.0 / 231.0
032	3216.9	1690.0	265.5 ¹	93.0 / 163.0
036	3593.1	1690.0	265.5 ¹	58.0 / 126.0
039	3947.2	1690.0	265.5 ¹	135.0 / 78.0
044	4380.0	1690.0	265.5 ¹	252.0 / 15.0
050	5023.3	1690.0	265.5 ¹	28.0 / 101.0
056	5563.4	1690.0	265.5 ¹	54.0 / 48.0
062	6165.3	1288.0	266.0	64.0 / 58.0
069	6859.0	1288.0	269.6	113.0 / 13.0
075	7549.6	1288.0	272.3	109.0 / 128.0
081	8073.4	1288.0	274.1	193.0 / 13.0
086	8566.2	1288.0	276.5	157.0 / 13.0
092	9236.6	1288.0	280.6	60.0 / 42.0
098	9791.3	1288.0	284.0	44.0 / 62.0
103	10333.6	1288.0	286.5	35.0 / 59.0
110	11026.8	1288.0	290.6	34.0 / 64.0
118	11824.3	1288.0	297.1	56.0 / 58.0
Little Black Creek				
217	21726.4	1334.0	228.7	195.0 / 8.0
223	22321.4	1263.0	229.7	185.0 / 7.0
227	22724.3	1263.0	231.2	7.0 / 37.0
237	23675.5	1263.0	233.9	50.0 / 43.0
242	24224.3	1263.0	235.5	156.0 / 22.0
247	24724.3	1263.0	237.2	114.0 / 83.0
252	25224.3	1194.0	238.4	62.0 / 100.0
257	25724.3	1194.0	239.2	121.0 / 113.0
262	26224.3	1194.0	240.5	148.0 / 35.0
268	26770.3	1194.0	242.6	7.0 / 149.0
272	27217.6	1118.0	243.6	14.0 / 264.0
278	27783.8	1011.0	245.2	32.0 / 57.0
282	28224.3	1011.0	247.2	136.0 / 6.0
287	28724.3	1011.0	248.7	31.0 / 89.0
292	29158.3	1011.0	249.7	12.0 / 194.0
296	29588.2	1011.0	250.6	6.0 / 105.0
300	30009.4	1011.0	251.8	43.0 / 138.0
305	30514.7	1011.0	252.8	79.0 / 12.0
310	31014.7	1011.0	254.9	112.0 / 76.0
315	31514.7	1011.0	256.2	117.0 / 36.0
320	32014.7	823.0	257.5	96.0 / 105.0

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Little Black Creek				
330	33014.7	823.0	262.0	56.0 / 119.0
335	33514.7	760.0	262.7	32.0 / 94.0
340	34014.7	760.0	264.0	18.0 / 110.0
345	34477.0	715.0	265.5	3.0 / 123.0
350	34982.4	715.0	268.1	30.0 / 35.0
355	35464.0	715.0	269.8	20.0 / 75.0
360	35951.9	715.0	271.3	20.0 / 120.0
366	36588.2	715.0	274.4	50.0 / 60.0
372	37154.6	715.0	276.6	50.0 / 60.0
383	38346.3	554.0	283.1	32.0 / 46.0
388	38800.4	554.0	284.9	30.0 / 85.0
393	39322.5	527.0	288.8	20.0 / 45.0
399	39886.2	527.0	292.7	25.0 / 125.0
403	40275.1	527.0	295.2	11.0 / 36.0
408	40810.1	527.0	299.8	40.0 / 75.0
Little Brier Creek (Basin 18, Stream 15)				
207	20668.0	2437.0	347.7	54.9 / 45.1
Little Brier Creek East (Basin 18, Stream 16)				
126	12600.0	622.0	383.7	29.5 / 6.5
Little Branch Tributary (Basin 26, Stream 4)				
025	2469.8	1959.0	272.9	33.0 / 154.0
030	2961.8	1959.0	274.1	17.0 / 204.0
033	3312.9	1959.0	274.9	24.0 / 261.0
034	3425.4	1950.0	277.3	24.0 / 261.0
038	3799.4	1950.0	277.5	35.0 / 409.0
043	4312.5	1950.0	277.9	16.0 / 211.0
048	4761.5	1950.0	278.8	16.0 / 272.0
053	5254.6	1787.0	279.7	17.0 / 69.0
058	5775.1	1787.0	282.3	318.0 / 16.0
Little Creek (Basin 11, Stream 2)				
024	2385.4	2136.0	215.7	142.0 / 17.0
223	22301.7	756.0	284.7	15.0 / 50.0
226	22638.8	756.0	286.7	10.0 / 25.0
230	23000.0	756.0	291.5	10.0 / 25.0
236	23569.7	756.0	299.2	20.0 / 100.0
246	24625.0	756.0	309.9	14.0 / 182.0
249	24869.4	756.0	312.1	28.0 / 13.0
Little Creek (Into Middle Creek)				
115	11523.2	1711.0	220.4	136.0 / 129.0
120	12023.2	1711.0	221.5	20.0 / 170.0
125	12506.8	1711.0	222.7	20.0 / 252.0
130	13020.8	1711.0	224.2	230.0 / 20.0
135	13514.1	1711.0	225.3	147.0 / 113.0
141	14061.7	1711.0	226.1	93.0 / 160.0

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Little Creek (Into Middle Creek)				
145	14514.1	1711.0	226.7	82.0 / 182.0
150	15014.1	1711.0	227.5	156.0 / 169.0
155	15533.8	1711.0	228.6	20.0 / 116.0
161	16093.6	1711.0	230.9	218.0 / 20.0
164	16441.1	1711.0	231.2	20.0 / 119.0
170	17015.1	1189.0	232.2	155.0 / 17.0
175	17509.0	1189.0	232.9	28.0 / 17.0
180	17975.7	1189.0	234.5	40.0 / 25.0
185	18475.3	1189.0	236.5	64.0 / 16.0
190	18961.4	1171.0	238.2	86.0 / 13.0
194	19395.2	1171.0	239.7	50.0 / 28.0
199	19947.8	1171.0	241.3	61.0 / 33.0
205	20461.4	1171.0	242.6	90.0 / 58.0
210	20961.4	1171.0	243.9	17.0 / 67.0
215	21461.4	1145.0	246.6	125.0 / 65.0
220	21961.4	1145.0	248.6	45.0 / 151.0
225	22461.4	1145.0	249.4	90.0 / 77.0
230	23014.4	1145.0	250.9	17.0 / 79.0
234	23441.0	1145.0	253.4	54.0 / 77.0
239	23941.0	1085.0	255.9	16.0 / 250.0
244	24368.5	1085.0	257.3	32.0 / 94.0
249	24868.5	1085.0	259.0	68.0 / 45.0
254	25411.1	1085.0	260.0	59.0 / 132.0
258	25843.0	1085.0	260.8	32.0 / 82.0
264	26436.2	744.0	263.1	58.0 / 50.0
269	26894.6	744.0	265.6	27.0 / 20.0
274	27383.1	744.0	269.1	52.0 / 13.0
279	27877.4	744.0	272.7	13.0 / 44.0
284	28377.4	744.0	275.7	102.0 / 49.0
289	28885.6	744.0	278.5	13.0 / 102.0
294	29373.8	744.0	281.9	13.0 / 49.0
299	29873.8	701.0	284.1	30.0 / 84.0
304	30373.8	701.0	286.3	62.0 / 28.0
309	30873.8	701.0	289.4	18.0 / 76.0
314	31420.3	701.0	293.9	40.0 / 20.0
318	31824.0	701.0	295.9	13.0 / 86.0
322	32161.6	701.0	296.9	16.0 / 92.0
327	32700.5	701.0	299.5	37.0 / 58.0
332	33186.1	701.0	302.0	17.0 / 88.0
336	33555.1	701.0	303.3	79.0 / 13.0
343	34291.5	701.0	307.6	45.0 / 58.0
348	34752.6	594.0	308.5	28.0 / 32.0
352	35176.9	594.0	311.1	27.0 / 12.0
357	35700.8	594.0	315.8	28.0 / 103.0

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Little Creek (Into Middle Creek)				
362	36168.2	594.0	318.4	12.0 / 81.0
366	36605.9	594.0	321.7	65.0 / 34.0
371	37128.1	594.0	325.4	28.0 / 64.0
375	37537.3	513.0	328.8	51.0 / 13.0
383	38298.4	513.0	333.0	22.0 / 73.0
387	38673.4	513.0	335.0	66.0 / 19.0
Little River				
4214	421448.7	4620.0	320.4	67.0 / 94.4
4219	421948.7	4620.0	321.2	119.0 / 35.0
4233	423256.4	3985.0	323.3	180.0 / 13.0
4239	423858.2	3985.0	323.9	70.0 / 108.0
424	424448.7	3985.0	324.5	399.0 / 159.0
Little White Oak Creek (Basin 26, Stream 9)				
001	93.6	1848.0	232.2 ¹	157.0 / 327.0
006	603.4	1848.0	232.2 ¹	167.0 / 329.0
007	749.9	1848.0	232.2 ¹	34.0 / 432.0
008	816.9	1848.0	232.2 ¹	34.0 / 432.0
014	1423.6	1848.0	232.2 ¹	92.0 / 245.0
020	2036.9	1797.0	232.2 ¹	110.0 / 355.0
025	2483.0	1797.0	232.2 ¹	133.0 / 446.0
031	3072.5	1797.0	232.2 ¹	72.0 / 410.0
036	3559.9	1797.0	232.2 ¹	206.0 / 158.0
041	4144.8	1797.0	232.2 ¹	353.0 / 16.0
046	4632.7	1680.0	232.9	193.0 / 15.0
051	5129.4	1680.0	234.2	243.0 / 15.0
056	5573.1	1680.0	235.4	235.0 / 23.0
062	6238.4	1632.0	236.9	170.0 / 18.0
068	6785.9	1632.0	238.0	110.0 / 179.0
074	7411.4	1596.0	239.2	15.0 / 137.0
079	7930.3	1596.0	240.2	15.0 / 234.0
084	8431.8	1478.0	241.1	53.0 / 57.0
090	9020.3	1478.0	243.0	82.0 / 17.0
095	9519.7	1454.0	244.5	106.0 / 14.0
101	10054.4	1419.0	245.6	130.0 / 39.0
104	10430.9	1419.0	246.4	69.0 / 51.0
105	10549.2	1419.0	246.7	28.0 / 24.0
106	10594.7	1419.0	246.9	28.0 / 24.0
107	10728.4	1419.0	247.1	47.0 / 14.0
111	11115.8	1039.0	248.6	17.0 / 100.0
115	11504.2	1039.0	249.9	12.0 / 122.0
117	11725.3	1039.0	250.2	25.0 / 75.0
118	11773.3	1039.0	251.3	25.0 / 75.0
124	12385.4	1023.0	251.7	12.0 / 42.0
129	12936.0	1023.0	254.1	13.0 / 196.0

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Little White Oak Creek (Basin 26, Stream 9)				
134	13447.6	1023.0	256.0	142.0 / 12.0
140	14021.6	885.0	259.3	12.0 / 68.0
145	14524.3	885.0	261.5	12.0 / 135.0
149	14926.0	885.0	263.0	12.0 / 59.0
153	15348.4	885.0	263.8	21.0 / 21.0
155	15536.4	858.0	265.3	21.0 / 21.0
161	16128.5	858.0	267.2	12.0 / 15.0
167	16707.5	793.0	273.3	14.0 / 109.0
171	17118.4	793.0	274.1	40.0 / 100.0
181	18066.3	650.0	277.1	14.0 / 105.0
188	18806.9	650.0	281.8	127.0 / 12.0
194	19361.9	650.0	284.4	50.0 / 12.0
199	19883.0	650.0	288.4	12.0 / 87.0
Little White Oak Creek Tributary 2				
006	620.3	478.0	248.5	12.0 / 12.0
010	991.0	478.0	251.6	12.0 / 12.0
014	1424.7	464.0	255.1	12.0 / 12.0
017	1748.3	464.0	257.9	12.0 / 12.0
020	1955.8	464.0	261.4	41.0 / 39.0
Nancy Branch				
077	7744.0	987.0	257.9	154.2 / 19.8
080	7997.0	730.0	259.4	17.3 / 28.8
083	8265.0	730.0	259.5	34.8 / 75.3
086	8568.0	730.0	259.7	40.3 / 69.7
090	8958.0	730.0	260.4	86.4 / 23.6
093	9332.0	730.0	262.0	94.3 / 15.7
096	9612.0	730.0	263.0	49.7 / 60.3
099	9869.0	730.0	264.2	15.2 / 26.8
102	10242.0	730.0	266.6	65.4 / 19.6
106	10554.0	730.0	267.4	63.4 / 9.6
108	10840.0	730.0	270.0	53.0 / 22.0
112	11181.0	730.0	271.4	12.8 / 37.3
116	11560.0	730.0	274.4	30.5 / 19.6
117	11748.0	730.0	275.6	8.6 / 11.5
121	12092.0	730.0	278.7	14.4 / 20.6
122	12235.0	730.0	286.2	26.9 / 26.1
124	12379.0	730.0	286.2	48.8 / 51.2
126	12570.0	730.0	286.2	84.8 / 65.3
130	13033.0	730.0	286.4	82.6 / 72.4
133	13288.0	730.0	286.5	62.7 / 27.3
135	13483.0	730.0	286.9	12.2 / 57.8
138	13806.0	730.0	288.7	24.4 / 15.6
Neil Branch (Basin 24, Stream 8)				
035	3507.0	1180.0	343.8	46.1 / 72.9

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Neil Branch (Basin 24, Stream 8)				
036	3581.0	1180.0	343.9	67.0 / 41.0
036	3638.0	1180.0	343.9	67.4 / 54.6
038	3771.0	1180.0	344.1	15.9 / 55.1
039	3948.0	1180.0	344.6	11.3 / 79.8
041	4101.0	1180.0	345.4	42.9 / 57.1
042	4191.0	1180.0	345.9	17.5 / 41.5
043	4280.0	1180.0	347.0	13.9 / 72.1
Neil Creek (Basin 24, Stream 7)				
031	3143.0	1150.0	323.3	31.5 / 18.5
032	3186.0	850.0	323.4	49.8 / 15.3
032	3224.0	850.0	324.4	49.7 / 15.3
034	3355.0	850.0	324.5	14.9 / 39.2
035	3503.0	850.0	324.6	11.0 / 42.0
036	3633.0	850.0	324.9	15.7 / 42.3
038	3771.0	850.0	325.2	27.2 / 18.8
039	3870.0	850.0	327.2	54.9 / 15.1
040	4033.0	850.0	328.6	14.6 / 47.4
Neills Creek				
614	61362.2	1187.0	262.9	23.0 / 54.0
620	61991.5	1187.0	266.7	17.0 / 222.0
624	62406.7	1187.0	268.0	6.0 / 164.0
629	62908.5	1137.0	270.3	114.0 / 82.0
634	63408.5	1137.0	272.5	5.0 / 177.0
638	63837.5	1137.0	274.8	94.0 / 38.0
645	64497.1	1137.0	277.9	125.0 / 38.0
650	65010.0	1057.0	280.5	59.0 / 70.0
656	65561.8	1057.0	282.9	78.0 / 44.0
659	65908.5	1057.0	284.2	5.0 / 82.0
664	66408.5	1057.0	287.0	38.0 / 72.0
669	66860.2	840.0	289.0	93.0 / 22.0
673	67341.4	840.0	290.8	26.0 / 89.0
680	67961.6	840.0	294.1	83.0 / 20.0
684	68408.5	840.0	296.1	110.0 / 23.0
688	68796.2	840.0	297.4	81.0 / 52.0
692	69172.2	840.0	300.5	3.0 / 92.0
New Light Creek				
229	22887.0	3223.0	276.1	380.0 / 85.0
235	23482.0	3223.0	277.9	476.0 / 37.0
Perry Creek (Basin 10, Stream 19)				
005	466.0	2647.0	318.3 ¹	87.0 / 272.0
011	1117.6	2647.0	318.3 ¹	47.0 / 82.0
016	1600.6	2647.0	320.3	31.0 / 99.0
019	1940.8	2647.0	321.2	77.0 / 133.0
034	3422.4	2647.0	324.4	595.0 / 18.0

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Perry Creek (Basin 10, Stream 19)				
041	4078.6	2647.0	324.9	247.0 / 161.0
046	4560.1	2582.0	325.2	319.0 / 293.0
057	5725.3	2582.0	329.1	230.0 / 260.0
064	6413.2	2582.0	329.4	182.0 / 168.0
070	7025.7	2528.0	330.1	93.0 / 247.0
076	7565.2	2528.0	331.3	92.0 / 103.0
084	8394.5	2528.0	332.9	17.0 / 326.0
089	8912.0	2528.0	333.4	17.0 / 348.0
095	9509.9	2528.0	334.1	27.0 / 394.0
102	10195.8	2528.0	336.4	37.0 / 90.0
108	10799.4	2525.0	341.5	15.0 / 86.0
112	11248.7	2525.0	343.6	20.0 / 40.0
121	12120.1	2525.0	347.9	300.0 / 200.0
127	12744.4	2525.0	348.1	250.0 / 175.0
134	13371.4	2525.0	348.8	150.0 / 90.0
150	14986.2	2195.0	355.9	208.0 / 50.0
156	15621.1	2195.0	359.5	98.0 / 75.0
163	16269.1	2195.0	360.7	81.0 / 147.0
169	16875.2	1428.0	361.2	74.0 / 327.0
174	17370.1	1428.0	361.6	61.0 / 101.0
178	17835.7	1428.0	363.0	60.0 / 150.0
185	18460.7	1428.0	364.6	60.0 / 150.0
191	19112.5	1428.0	367.0	60.0 / 175.0
195	19527.3	1428.0	369.3	55.0 / 112.0
199	19948.8	1428.0	370.6	88.0 / 117.0
204	20439.5	1178.0	372.1	109.0 / 75.0
210	20967.5	1178.0	374.8	60.0 / 20.0
215	21508.5	1178.0	377.6	14.0 / 148.0
220	22041.0	1178.0	380.9	36.0 / 14.0
Reedy Creek (Basin 20, Stream 11)				
139	13932.0	970.0	316.1	32.2 / 12.8
140	13991.0	970.0	316.4	28.1 / 21.9
141	14100.0	970.0	321.7	37.1 / 27.9
142	14177.0	970.0	322.6	34.8 / 39.2
144	14430.0	970.0	322.9	19.4 / 45.6
147	14672.0	970.0	324.3	14.5 / 17.0
148	14847.0	970.0	326.2	22.4 / 14.4
Richland Creek Tributary 2				
004	408.5	489.0	300.6 ¹	75.0 / 40.0
007	725.3	489.0	301.4	50.0 / 30.0
009	924.0	489.0	303.8	7.0 / 75.0
Snipes Creek				
281	28051.0	723.0	279.1	65.0 / 15.0
283	28349.0	723.0	280.6	30.0 / 70.0

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Snipes Creek				
291	29136.4	723.0	285.2	17.0 / 43.0
296	29634.0	723.0	288.1	23.0 / 82.0
302	30222.7	723.0	292.9	35.0 / 30.0
306	30594.8	723.0	296.3	19.0 / 46.0
311	31124.2	723.0	301.8	20.0 / 15.0
316	31578.1	723.0	309.6	56.0 / 37.0
320	32002.0	723.0	310.1	7.0 / 27.0
325	32465.3	723.0	315.8	21.0 / 34.0
332	33151.9	723.0	321.0	19.0 / 19.0
337	33670.4	723.0	325.5	44.0 / 48.0
344	34416.9	723.0	330.2	41.0 / 18.0
Straight Branch (Basin 20, Stream 23)				
043	4275.0	713.0	383.5	17.2 / 15.9
044	4388.0	713.0	385.4	5.2 / 48.9
045	4505.0	713.0	387.0	15.1 / 28.9
045	4541.0	713.0	388.9	24.9 / 22.1
047	4736.0	713.0	389.5	54.6 / 7.4
049	4952.0	713.0	389.8	33.8 / 15.2
052	5158.0	713.0	392.2	62.0 / 16.0
Thomas Creek				
001	72.7	992.0	232.2 ¹	56.0 / 190.0
006	594.6	992.0	232.2 ¹	206.0 / 13.0
009	878.9	992.0	232.2 ¹	206.0 / 34.0
012	1173.9	992.0	232.2 ¹	208.0 / 13.0
016	1598.0	992.0	232.2 ¹	53.0 / 145.0
021	2087.7	649.0	232.2 ¹	20.0 / 97.0
024	2443.6	649.0	232.2 ¹	63.0 / 40.0
029	2937.1	649.0	233.0	128.0 / 12.0
033	3325.3	649.0	234.4	58.0 / 12.0
038	3761.1	649.0	236.4	56.0 / 46.0
042	4182.2	606.0	237.4	16.0 / 95.0
045	4506.3	606.0	238.6	29.0 / 37.0
049	4865.3	606.0	240.5	63.0 / 12.0
052	5217.9	606.0	241.8	14.0 / 69.0
056	5615.1	606.0	243.8	30.0 / 13.0
058	5787.9	606.0	245.0	12.0 / 15.0
Turkey Creek Tributary				
002	159.3	840.0	314.6 ¹	30.0 / 76.0
004	374.6	840.0	319.2	60.0 / 25.0
006	578.0	840.0	319.2	45.0 / 40.0
007	712.9	840.0	319.9	50.0 / 40.0
011	1075.0	840.0	320.9	45.0 / 50.0
014	1391.3	840.0	323.2	25.7 / 48.1
017	1657.5	840.0	324.4	32.3 / 9.8

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
Turkey Creek Tributary				
019	1883.2	840.0	326.1	22.5 / 14.6
024	2351.9	840.0	329.4	17.0 / 15.0
029	2907.6	840.0	332.6	25.0 / 15.0
032	3156.9	840.0	339.7	32.0 / 16.0
033	3342.9	840.0	340.9	11.0 / 23.0
034	3440.4	840.0	341.0	5.5 / 21.6
Wheelers Creek (Basin 10, Stream 25)				
096	9625.0	2024.0	283.6	44.7 / 93.3
097	9687.0	2024.0	283.9	15.4 / 120.6
098	9805.0	2024.0	285.7	19.9 / 129.1
100	10026.0	2024.0	286.1	43.3 / 56.7
102	10195.0	2024.0	286.9	49.4 / 30.6
104	10407.0	2024.0	289.2	44.9 / 25.1
106	10601.0	2024.0	291.6	20.1 / 29.9
White Oak Creek				
321	32143.0	3380.0	271.1	102.0 / 385.0
328	32758.0	3380.0	272.3	194.0 / 337.0
342	34200.0	2160.0	276.6	154.0 / 47.0
353	35341.0	2160.0	281.1	148.0 / 118.0
360	36021.0	2160.0	282.5	224.0 / 141.0
365	36537.0	2160.0	283.9	213.0 / 43.0
369	36947.0	2160.0	286.5	199.0 / 82.0
375	37453.0	2160.0	289.0	283.0 / 61.0
381	38079.0	2160.0	291.3	95.0 / 226.0
388	38831.0	2160.0	294.1	9.0 / 246.0
393	39280.0	2160.0	295.8	34.0 / 290.0
397	39723.0	2160.0	297.3	63.0 / 130.0
404	40355.0	2160.0	300.1	67.0 / 31.0
407	40745.0	2160.0	301.9	123.0 / 63.0
413	41298.0	2040.0	303.4	28.0 / 197.0
416	41561.0	2040.0	303.9	40.0 / 40.0
417	41747.0	2040.0	307.9	40.0 / 40.0
418	41817.0	2040.0	308.2	50.0 / 100.0
419	41877.0	2040.0	308.3	50.0 / 100.0
422	42203.0	2040.0	308.4	107.0 / 242.0
425	42506.0	2040.0	309.1	106.0 / 102.0
429	42927.0	2040.0	311.1	61.0 / 63.0
431	43093.0	2040.0	311.6	59.0 / 80.0
433	43318.0	2040.0	314.4	59.0 / 80.0
436	43563.0	2040.0	314.7	76.0 / 107.0
440	43952.0	2040.0	316.2	11.0 / 192.0
443	44285.0	2040.0	318.2	51.0 / 103.0
447	44651.0	2040.0	320.4	134.0 / 33.0
451	45067.0	2040.0	322.8	45.0 / 161.0

Table 17 - Limited Detailed Flood Hazard Data

Cross Section	Stream Station	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non-Encroachment Width (feet) Left/Right from Stream Centerline
White Oak Creek				
454	45429.0	2040.0	325.0	148.0 / 73.0
457	45678.0	2040.0	326.1	102.0 / 30.0
458	45807.0	2040.0	329.9	102.0 / 30.0
462	46159.0	1130.0	330.1	81.0 / 218.0
465	46510.0	1130.0	330.3	65.0 / 80.0
469	46879.0	1130.0	333.2	65.0 / 79.0
473	47257.0	1130.0	335.7	57.0 / 90.0
478	47757.0	1130.0	337.9	17.0 / 13.0
479	47943.0	1130.0	342.8	17.0 / 12.0
484	48368.0	1130.0	344.3	37.0 / 75.0
489	48862.0	1130.0	349.1	124.0 / 4.0
493	49267.0	1130.0	351.4	134.0 / 10.0
498	49759.0	620.0	355.4	10.0 / 54.0
502	50151.0	620.0	359.7	31.0 / 38.0
507	50651.0	620.0	363.9	97.0 / 22.0
511	51130.0	620.0	368.7	35.0 / 32.0

¹Elevation includes backwater effects

²Elevation includes flooding controlled by Black Creek

5.3 Coastal Analyses

This section is not applicable to this FIS project.

Table 18 "Summary of Coastal Analyses" does not apply to Wake County.

Table 19 "Tide Gage Analysis Specifics" does not apply to Wake County.

Table 20 "Coastal Transect Parameters" does not apply to Wake County.

Figure 5, "Coastal Transect Locator Map" is not applicable to Wake County

6.0 Mapping Methods

6.1 Vertical and Horizontal Control

Vertical Datum

All FISs 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. With the finalization of the North American Vertical Datum of 1988 (NAVD 88), all North Carolina FISs have been prepared using NAVD 88 as the referenced vertical datum.

All flood elevations shown on the FIRM for Wake County are referenced to NAVD 88. Structure and ground elevations in the county must, therefore, be referenced to NAVD 88. It is important to note that FISs for adjacent communities in neighboring states may be referenced to NGVD 29. This may result in BFE differences across political boundaries between the communities.

As noted above, the elevations shown in this FIS are referenced to NAVD 88. Ground, structure, and flood elevations may be compared and/or referenced to NGVD 29 by applying a standard conversion factor. The conversion factor for Wake County is # feet. The locations used to establish the conversion factor were USGS quadrangle corners that fell within the county, as well as those that were within 2.5 miles outside the county. The benchmarks are referenced to NAVD 88. Table 21, "Datum Conversion Locations and Values," is shown below.

Table 21, "Datum Conversion Locations and Values."

Table 21 - Datum Conversion Locations and Values

Latitude	Longitude	Conversion from NGVD29 to NAVD88 (feet)
36.00	-78.63	-0.88
36.00	-78.63	-0.88
36.00	-78.50	-0.90
36.00	-78.50	-0.90
35.88	-78.75	-0.84
35.88	-78.75	-0.84
35.88	-78.38	-0.92
35.88	-78.38	-0.92
35.63	-78.63	-0.83
35.63	-78.63	-0.83
35.87	-78.63	-0.91
35.87	-78.63	-0.91
35.87	-78.50	-0.91
35.87	-78.50	-0.91
35.75	-78.88	-0.82
35.75	-78.88	-0.82
35.75	-78.75	-0.85
35.75	-78.75	-0.85
35.75	-78.62	-0.91
35.75	-78.62	-0.91
35.75	-78.50	-0.95
35.75	-78.50	-0.95
35.63	-78.88	-0.83
35.63	-78.88	-0.83
35.63	-78.75	-0.88
35.63	-78.75	-0.88
Average conversion in Wake County from NGVD 29 to NAVD 88 = -0.88 feet		

The vertical datum conversion factor for all flooding sources which run along a county boundary are in accordance with the conversion factor used in those contiguous counties.

BFEs shown on the FIRM represent whole-foot rounded values. For example, a 1% annual chance water-surface elevation of 102.4

feet will appear as 102 on the FIRM and 102.6 feet will appear as 103. Therefore, users who wish to convert the elevations in this FIS to NGVD 29 should apply the stated conversion factor(s) to elevations shown on the Flood Profiles and/or Water-surface elevation rasters and supporting data tables in the FIS Report, which are shown, at a minimum, to the nearest 0.1 foot.

For more information on NAVD 88, see *Converting the National Flood Insurance Program to the North American Vertical Datum of 1988*, or contact the Vertical Network Branch, National Geodetic Survey, Coast and Geodetic Survey, National Oceanic and Atmospheric Administration, Rockville, Maryland 20910 (<http://www.ngs.noaa.gov>).

Vertical Control Monuments

Qualifying bench marks within Wake County that are cataloged by the National Geodetic Survey (NGS) and entered into the National Spatial Reference System (NSRS) as First or Second Order Vertical, with a vertical stability classification of A, B, or C, are shown and labeled on the FIRM with their 6-character NSRS Permanent Identifier (PID).

The National Geodetic Survey establishes precisely located monuments on the North Carolina Grid System and Bench Marks referenced to a vertical datum (NGVD 1929 and NAVD 1988).

Bench marks cataloged by the NGS and entered into the NSRS vary widely in vertical stability classification. NSRS vertical stability classifications are as follows:

- Stability A: Monuments of the most reliable nature, expected to hold position/elevation well (e.g., mounted in bedrock)
- Stability B: Monuments which generally hold their position/elevation well (e.g., concrete bridge abutment)
- Stability C: Monuments which may be affected by surface ground movements (e.g., concrete monument below frost line)
- Stability D: Mark of questionable or unknown vertical stability (e.g., concrete monument above frost line, or steel witness post)

Monuments with a Stability D classification may be used as Elevation Reference Marks (ERMs) when a Stability C or better monument is not an option. These ERMs must be approved by NCGS and can be set and used as elevation bench marks to establish vertical control and produce NC DFIRMs. Including such ERMs will greatly augment North Carolina's useable vertical control network.

In addition, when local jurisdictions have established their own vertical monument network, these monuments may also be shown on the FIRM with the appropriate designations. Local monuments will be placed on the FIRM if the community has requested that they be included and if the monuments meet the aforementioned criteria.

North Carolina Geodetic Survey (NCGS) and contractor surveyed vertical control monuments will be shown on the FIRM panels. Those cataloged by NCGS meet similar requirements to the NGS monuments as described above. Most monuments that have been cataloged by NCGS have been established to NGS standards, but have not been submitted to NGS for inclusion into the NSRS. The qualifying criteria for depicting bench marks established by the State's contractors on the new digital FIRM panels include:

- GPS surveying of permanent 3-D survey monuments to 5-centimeter or better local network accuracy guidelines, in accordance with NOAA Technical Memorandum NOS NGS-58 "Guidelines for Establishing GPS-Derived Ellipsoid Heights (Standards: 2 cm and 5 cm)," and conversion to NAVD 88 orthometric heights using NGS' latest geoid mode;
- Requiring a stability classification of "C" or better; and
- Submitting GPS files and station descriptions to NCGS.

To obtain current information for cataloging local bench marks in the NSRS, please visit the Data Sheet page of the NGS website at <https://geodesy.noaa.gov/datasheets/>, or contact the NGS Information Services Branch at:

Communications and Outreach Branch, NOAA, N/NGS12
National Geodetic Survey, SSMC3 #8716
1315 East-West Highway
Silver Spring, MD 20910-3282
(301) 713-3242

Information regarding the NCGS or State contractor bench marks can be obtained through the NCGS website at www.ncgs.state.nc.us, or by phone at (919) 733-3836.

It is important to note that temporary vertical monuments, sometimes called Elevation Reference Marks, 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, interested individuals may contact FEMA to access this information.

Horizontal Datum and Control

The digital files that comprise the FIRM are georeferenced to an established coordinate system. The coordinate system used for the production of this FIRM is North Carolina State Plane (FIPZONE 3200) referenced to the North American Datum of 1983 (NAD83), GRS80 ellipsoid.

6.2 Base Map

The FIRMs and FIS Report for this project have been produced in a digital format. The flood hazard information was converted to a Geographic Information System (GIS) format that meets FEMA's FIRM database specifications and geographic information standards. This information is provided in a digital format so that it can be incorporated into a local GIS and be accessed more easily by the community. The FIRM Database includes most of the tabular information contained in the FIS Report in such a way that the data can be associated with pertinent spatial features.

The projection used in the preparation of this map was the North Carolina State Plane Coordinate System. The horizontal datum was NAD83, GRS80 spheroid. Differences in datum, spheroid, or projection used in the production of FIRMs for adjacent states may result in slight positional differences in map features across the state boundary. These differences do not affect the accuracy of this FIRM.

As part of the North Carolina CTS Initiative, North Carolina digital FIRM panel numbers are consistent with the North Carolina Land Records Management Program (LRMP).

The 11-digit digital FIRM panel numbering system for North Carolina is: SS MM LLLL PP X, where SS = State Federal Information Processing Code (37); MM = Easting-Northing (EN) 1,000,000-foot coordinates; LLLL = LRMP map numbers to include the EN 100,000-foot coordinates, and the EN 10,000-foot coordinates; PP = place holders for additional EN 1,000-foot coordinates; and X = suffix ("J" for the initial edition). North Carolina's State Plane Coordinate System origin is outside the State boundary to the southwest (in Georgia), the eastings range from approximately 0,404,000 (Tennessee border) to 3,040,000 (Atlantic Ocean); and the northings range from approximately 0,045,000 (South Carolina border) to 1,043,000 (Virginia border). Digital FIRM panels were compiled at either 1"=1,000', covering an area of 20,000 feet x 20,000 feet (20" x 20" panels); or at 1"=500', covering an area of 10,000 feet x 10,000 feet (20" x 20" panels). An additional 2 digits (both zeros) are held in reserve as a "place holder" in the event that future FIRMs are printed at a larger scale; e.g., 1"=250', covering an area of 5,000 feet x 5,000 feet for which the 1,000-foot coordinates would either be 0 or 5.

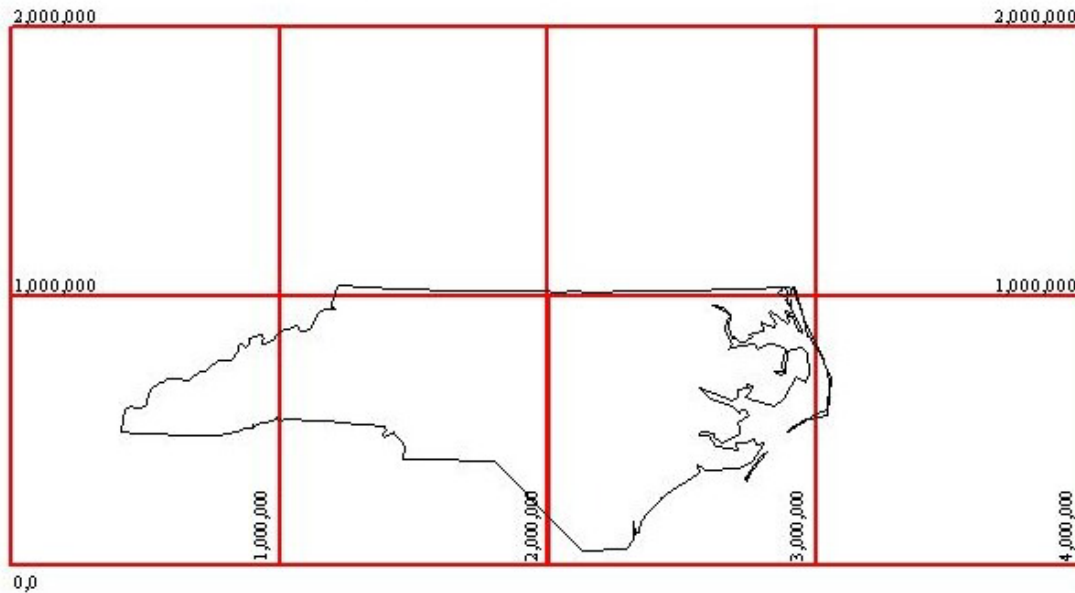


Figure 6 - North Carolina's State Plane Coordinate System

6.3 Floodplain and Floodway Delineation

Floodplain Boundaries

For streams restudied by detailed and limited detailed methods, the 1% and 0.2% annual chance floodplains were delineated using flood elevations determined at each cross section. Between cross sections, the boundaries were interpolated using topographic data acquired using airborne Light Detection and Ranging (LIDAR).

The topographic data satisfies a vertical root-mean-square error (RMSE) accuracy standard of 20 cm (1.3 feet accuracy at the 95% confidence limit) for the Outer Banks and 25 cm (1.6 feet accuracy at the 95% confidence limit) for those portions of the basin lying west of the Outer Banks. These data could be contoured at roughly a 2-foot vertical contour interval. All elevations were referenced to the NAVD 88 and reflect orthometric heights. Variably spaced, bare-earth digital topographic data in ASCII point file format were combined with imagery (either flown concurrently with the LIDAR data or using existing digital orthophotos) to establish a Triangulated Irregular Network (TIN) of digital elevation points, which include selected breaklines to be used for hydraulic modeling. Furthermore, a uniformly spaced sampling of the TIN resulted in uniformly spaced Digital Elevation Models (DEMs), with 20 ft x 20 ft post spacing, which was generated in multiple file formats.

The 1% annual chance floodplain boundary corresponds to the boundary of the areas of special flood hazards (Zones VE, AO, AH, A99, AR, A, and AE), and the 0.2% annual chance floodplain boundary corresponds to the boundary of areas of moderate flood hazards. In cases where the 1% and 0.2% annual chance floodplain boundaries are close together, only the 1% annual chance floodplain boundaries have been shown.

Floodway Delineation

The floodways presented in this FIS 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 are tabulated for selected cross sections (Table 22, "Floodway Data"). The computed floodway is shown on the FIRM. In cases where the floodway and 1% annual chance floodplain boundaries are either close together or collinear, only the floodway boundary is shown. In areas where the top of the bridge or road is higher than the 1.0-percent annual chance (100-year) flood, the FIRM will show the flood discharge as contained within the structure for emergency management purposes. It is important to note that FEMA and community floodway regulations still apply in and around those areas.

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Adams Branch (Basin 30, Stream 9)									
174	17,358	100.0	531.0	5.7	260.7	*	260.7	260.9	0.2
187	18,672	70.0	322.0	11.0	268.7	*	268.7	268.7	0.0
195	19,524	90.0	497.0	4.9	275.3	*	275.3	275.7	0.4
198	19,752	100.0	586.0	3.8	276.2	*	276.2	276.9	0.7
205	20,470	60.0	230.0	8.4	279.3	*	279.3	279.9	0.6
Angier Creek (Basin 24, Stream 4)									
012	1,202	85.0	642.0	6.8	259.4 ¹	*	258.1	259.0	0.9
020	1,951	170.0	655.0	8.4	260.0	*	260.0	260.9	0.9
031	3,139	270.0	1028.0	5.2	264.4	*	264.4	265.3	0.9
042	4,202	65.0	428.0	7.4	269.8	*	269.8	270.5	0.7
052	5,195	145.0	758.0	6.4	272.0	*	272.0	273.0	1.0
063	6,283	130.0	630.0	5.8	274.9	*	274.9	275.8	0.9
068	6,804	115.0	662.0	7.4	277.6	*	277.6	278.0	0.4
081	8,115	55.0	329.0	12.8	282.7	*	282.7	283.4	0.7
088	8,765	240.0	667.0	8.6	286.2	*	286.2	287.0	0.8
097	9,707	110.0	507.0	10.5	289.0	*	289.0	289.6	0.6
110	11,002	145.0	632.0	6.8	292.6	*	292.6	293.5	0.9
121	12,141	100.0	667.0	5.3	297.1	*	297.1	297.6	0.5
132	13,246	200.0	517.0	7.9	299.1	*	299.1	300.1	1.0
140	13,999	110.0	493.0	8.5	306.2	*	306.2	306.9	0.7
142	14,241	83.0	509.0	4.0	308.9	*	308.9	309.5	0.6
150	15,017	36.0	142.0	12.7	311.8	*	311.8	311.9	0.1
154	15,430	34.0	128.0	13.6	331.3	*	331.3	331.3	0.0
156	15,567	326.0	3291.0	0.3	333.8	*	333.8	334.8	1.0
162	16,212	170.0	1063.0	1.1	333.8	*	333.8	334.8	1.0
165	16,513	80.0	391.0	5.8	336.7	*	336.7	337.1	0.4
170	17,033	110.0	697.0	2.8	336.9	*	336.9	337.7	0.8
176	17,590	35.0	149.0	10.4	337.9	*	337.9	338.4	0.5
183	18,256	50.0	204.0	6.0	342.1	*	342.1	342.9	0.8
186	18,597	65.0	433.0	3.1	346.4	*	346.4	347.3	0.9
194	19,380	54.0	116.0	10.5	348.4	*	348.4	348.5	0.1
200	20,007	55.0	238.0	5.4	354.9	*	354.9	355.7	0.8
204	20,414	45.0	158.0	9.3	358.5	*	358.5	359.1	0.6
215	21,476	65.0	176.0	9.3	364.9	*	364.9	365.6	0.7
220	22,000	80.0	510.0	2.5	374.7	*	374.7	375.7	1.0
228	22,766	60.0	235.0	6.6	379.2	*	379.2	380.0	0.8
Armory Tributary (Basin 18, Stream 38)									
000	18	87.0	273.0	4.5	340.5	*	340.5	340.5	0.0
007	748	118.0	228.0	6.4	348.6	*	348.6	348.6	0.0
017	1,664	22.0	104.0	7.8	354.9	*	354.9	354.9	0.0
024	2,362	15.0	97.0	8.7	363.3	*	363.3	364.1	0.8
033	3,323	20.0	60.0	12.3	376.5	*	376.5	376.6	0.1

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Austin Creek (Basin 6, Stream 10)									
004	402	70.0	265.0	9.1	250.5 ¹	*	248.3	248.4	0.1
007	719	85.0	384.0	6.1	250.5	*	250.5	250.7	0.2
010	1,012	95.0	477.0	4.6	252.3	*	252.3	252.5	0.2
021	2,145	70.0	409.0	7.5	255.5	*	255.5	256.3	0.8
027	2,695	58.0	243.0	11.0	259.6	*	259.6	259.6	0.0
031	3,113	90.0	513.0	5.1	262.5	*	262.5	262.5	0.0
040	4,040	70.0	441.0	6.5	265.1	*	265.1	265.2	0.1
051	5,065	155.0	778.0	4.1	267.6	*	267.6	268.1	0.5
060	6,010	75.0	344.0	5.7	269.6	*	269.6	269.9	0.3
069	6,893	115.0	395.0	4.8	272.9	*	272.9	273.2	0.3
078	7,797	150.0	372.0	6.5	276.8	*	276.8	277.6	0.8
082	8,176	59.0	332.0	4.7	281.1	*	281.1	281.1	0.0
089	8,939	110.0	396.0	4.0	282.0	*	282.0	282.9	0.9
092	9,214	107.0	538.0	3.7	286.0	*	286.0	286.6	0.6
097	9,726	90.0	374.0	4.8	286.5	*	286.5	287.3	0.8
099	9,926	85.0	443.0	3.5	290.5	*	290.5	291.2	0.7
109	10,926	120.0	252.0	6.4	291.7	*	291.7	292.4	0.7
120	11,979	100.0	248.0	5.7	300.4	*	300.4	300.8	0.4
129	12,921	26.0	90.0	11.8	313.0	*	313.0	313.1	0.1
132	13,229	80.0	691.0	1.6	331.0	*	331.0	331.6	0.6
136	13,558	129.0	929.0	0.8	348.1	*	348.1	348.3	0.2
147	14,670	140.0	495.0	2.7	348.2	*	348.2	348.3	0.1
151	15,137	227.0	1442.0	0.5	363.3	*	363.3	363.4	0.1
158	15,797	125.0	618.0	1.3	363.3	*	363.3	363.4	0.1
161	16,117	221.0	2012.0	0.4	377.2	*	377.2	377.3	0.1
168	16,772	75.0	344.0	2.4	377.2	*	377.2	377.3	0.1
170	17,030	38.0	375.0	2.4	385.9	*	385.9	386.8	0.9
171	17,121	300.0	1926.0	0.4	389.8	*	389.8	389.8	0.0
177	17,728	79.0	147.0	10.3	390.8	*	390.8	390.8	0.0
182	18,245	28.0	97.0	12.2	399.8	*	399.8	399.8	0.0
Bachelor Branch (Basin 28, Stream 6)									
015	1,468	380.0	786.0	8.0	270.0	*	270.0	270.8	0.8
024	2,409	155.0	924.0	3.9	274.5	*	274.5	275.4	0.9
037	3,728	325.0	906.0	4.9	277.4	*	277.4	278.3	0.9
048	4,803	330.0	751.0	6.7	280.2	*	280.2	280.9	0.7
064	6,382	260.0	928.0	4.7	286.7	*	286.7	287.5	0.8
077	7,685	200.0	1056.0	4.8	290.2	*	290.2	291.1	0.9
086	8,608	160.0	373.0	10.6	294.3	*	294.3	294.6	0.3
096	9,612	53.0	426.0	4.5	300.6	*	300.6	300.9	0.3
111	11,133	125.0	518.0	7.7	307.1	*	307.1	307.9	0.8
123	12,336	75.0	280.0	10.1	312.9	*	312.9	313.7	0.8

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Bachelor Branch (Basin 28, Stream 6)									
129	12,919	120.0	540.0	5.9	317.0	*	317.0	318.0	1.0
132	13,175	90.0	452.0	7.7	320.4	*	320.4	321.2	0.8
141	14,136	120.0	420.0	7.6	327.0	*	327.0	327.9	0.9
144	14,350	50.0	498.0	4.8	333.2	*	333.2	333.7	0.5
151	15,079	100.0	513.0	5.1	336.6	*	336.6	337.3	0.7
156	15,635	184.0	3914.0	0.8	359.7	*	359.7	360.7	1.0
160	15,982	100.0	1910.0	1.6	359.7	*	359.7	360.7	1.0
Bagwell Branch (Basin 20, Stream 10)									
001	147	422.0	683.0	2.6	238.6 ¹	*	233.6	233.6	0.0
004	382	660.0	6564.0	0.3	243.0	*	243.0	243.0	0.0
015	1,519	200.0	1785.0	1.4	243.0	*	243.0	243.0	0.0
027	2,687	100.0	581.0	4.8	243.5	*	243.5	243.9	0.4
037	3,707	180.0	913.0	3.6	245.0	*	245.0	245.7	0.7
050	4,999	197.0	671.0	4.7	247.9	*	247.9	248.5	0.6
063	6,323	150.0	566.0	4.8	253.6	*	253.6	254.3	0.7
073	7,262	135.0	396.0	6.7	257.3	*	257.3	258.2	0.9
080	8,003	75.0	336.0	6.2	262.3	*	262.3	262.3	0.0
085	8,478	56.0	338.0	5.4	265.7	*	265.7	265.8	0.1
100	9,983	90.0	527.0	4.1	273.3	*	273.3	273.8	0.5
106	10,650	100.0	407.0	5.5	273.8	*	273.8	274.7	0.9
110	11,045	147.0	404.0	6.9	276.2	*	276.2	277.1	0.9
116	11,560	125.0	392.0	6.6	279.8	*	279.8	280.1	0.3
118	11,843	100.0	292.0	8.4	282.0	*	282.0	282.5	0.5
129	12,913	135.0	340.0	8.9	288.3	*	288.3	288.3	0.0
137	13,702	90.0	658.0	2.6	298.5	*	298.5	299.4	0.9
Basal Creek									
002	158	11.0	38.0	4.0	272.8 ¹		272.1	271.6	1.0
004	430	11.0	26.0	5.7	274.3		274.8	274.3	0.1
006	637	295.0	3594.0	0.1	297.3		297.5	297.3	0.2
009	944	148.0	1417.0	0.2	297.3		297.5	297.3	0.2
013	1,349	45.0	169.0	1.0	297.3		297.5	297.3	0.2
016	1,568	12.0	23.0	6.9	302.4		302.8	302.4	0.2
019	1,923	12.0	64.0	2.5	308.6		308.9	308.6	0.4
Basal Creek (Basin 22, Stream 16)									
009	941	671.0	1265.0	1.8	310.3 ¹	*	304.0	304.0	0.0
020	1,988	656.0	1309.0	1.8	310.3 ¹	*	304.9	304.9	0.0
028	2,815	275.0	922.0	3.0	310.3 ¹	*	310.2	310.2	0.0
037	3,714	504.0	1216.0	2.3	311.4	*	311.4	311.4	0.0
052	5,202	561.0	897.0	3.1	316.2	*	316.2	317.0	0.8
068	6,810	720.0	7283.0	0.6	331.2 ²	*	328.1	328.1	0.0
082	8,247	535.0	4712.0	0.9	331.2 ²	*	328.1	328.1	0.0
088	8,823	290.0	1129.0	7.5	331.2 ²	*	328.2	328.3	0.1

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Basal Creek (Basin 22, Stream 16)									
105	10,502	265.0	1302.0	5.5	333.2	*	333.2	333.8	0.6
119	11,930	220.0	1095.0	5.8	337.5	*	337.5	338.2	0.7
132	13,182	200.0	1029.0	7.5	342.0	*	342.0	342.7	0.7
146	14,552	170.0	979.0	7.3	348.1	*	348.1	348.9	0.8
157	15,656	215.0	999.0	6.7	352.7	*	352.7	353.6	0.9
165	16,494	195.0	3012.0	2.8	368.3	*	368.3	368.3	0.0
177	17,704	110.0	1106.0	2.8	368.4	*	368.4	368.4	0.0
188	18,785	130.0	443.0	7.5	369.0	*	369.0	369.8	0.8
201	20,115	140.0	448.0	7.4	376.4	*	376.4	377.2	0.8
212	21,159	105.0	348.0	6.5	383.4	*	383.4	384.3	0.9
Basin 3, Stream 6									
008	781	70.0	197.0	6.4	265.5 ¹	*	257.1	257.1	0.0
018	1,777	100.0	228.0	8.5	265.5 ¹	*	260.6	260.8	0.2
026	2,558	59.0	254.0	6.0	265.5 ¹	*	265.3	265.9	0.6
030	3,040	55.0	197.0	7.0	270.5	*	270.5	270.5	0.0
034	3,371	76.0	412.0	4.3	274.9	*	274.9	274.9	0.0
041	4,119	70.0	222.0	7.7	277.9	*	277.9	278.0	0.1
049	4,932	70.0	234.0	7.5	285.1	*	285.1	285.6	0.5
059	5,929	43.0	178.0	7.4	294.4	*	294.4	294.5	0.1
073	7,253	50.0	137.0	8.6	305.6	*	305.6	305.6	0.0
Basin 4, Stream 3									
014	1,429	90.0	291.0	6.9	323.7	*	323.7	324.4	0.7
024	2,367	170.0	385.0	6.5	329.5	*	329.5	330.5	1.0
032	3,240	175.0	249.0	8.2	336.3	*	336.3	337.1	0.8
041	4,080	75.0	203.0	12.4	345.4	*	345.4	345.7	0.3
054	5,411	27.0	128.0	14.1	365.5	*	365.5	365.6	0.1
058	5,835	789.0	5026.0	0.2	373.4	*	373.4	373.4	0.0
068	6,754	190.0	449.0	4.2	373.4	*	373.4	373.4	0.0
074	7,350	35.0	187.0	8.7	379.0	*	379.0	379.8	0.8
075	7,544	37.0	318.0	3.9	383.5	*	383.5	384.4	0.9
079	7,879	35.0	161.0	6.7	384.9	*	384.9	385.8	0.9
Basin 4, Stream 13									
007	703	70.0	142.0	9.3	284.1	*	284.1	284.1	0.0
014	1,428	55.0	150.0	8.2	289.9	*	289.9	290.4	0.5
023	2,303	70.0	185.0	7.1	296.0	*	296.0	296.3	0.3
030	2,988	40.0	114.0	9.6	301.8	*	301.8	301.9	0.1
040	4,003	45.0	161.0	7.5	312.1	*	312.1	313.0	0.9
Basin 6, Stream 9									
002	160	185.0	278.0	7.1	240.0 ¹	*	239.8	240.3	0.5
006	581	189.0	506.0	5.5	243.9	*	243.9	244.4	0.5
016	1,650	95.0	407.0	5.4	255.5	*	255.5	255.6	0.1
027	2,741	65.0	177.0	11.7	265.2	*	265.2	265.2	0.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Basin 6, Stream 9									
035	3,475	33.0	127.0	12.7	278.4	*	278.4	278.5	0.1
037	3,723	92.0	741.0	2.6	305.2	*	305.2	306.1	0.9
044	4,394	60.0	222.0	8.8	306.5	*	306.5	307.5	1.0
Basin 10, Stream 2									
007	661	78.0	286.0	7.1	218.9 ¹	*	212.3	213.0	0.7
011	1,147	185.0	811.0	3.6	219.1	*	219.1	219.3	0.2
024	2,389	110.0	402.0	5.0	222.9	*	222.9	223.8	0.9
037	3,679	93.0	227.0	10.2	231.6	*	231.6	231.6	0.0
047	4,721	100.0	330.0	7.4	239.5	*	239.5	240.1	0.6
055	5,523	40.0	278.0	8.6	247.5	*	247.5	247.9	0.4
061	6,057	55.0	326.0	7.0	256.0	*	256.0	256.2	0.2
Basin 10, Stream 3									
016	1,567	389.0	493.0	4.0	225.9	*	225.9	225.9	0.0
017	1,719	403.0	1182.0	1.3	226.4	*	226.4	226.5	0.1
022	2,239	324.0	1313.0	1.2	226.7	*	226.7	226.7	0.0
029	2,903	243.0	617.0	2.5	226.7	*	226.7	226.8	0.1
065	3,515	172.0	302.0	5.0	227.3	*	227.3	227.7	0.4
036	3,646	196.0	1006.0	1.5	231.0	*	231.0	231.8	0.8
044	4,384	60.0	195.0	7.8	235.7	*	235.7	236.3	0.6
Basin 10, Stream 5									
022	2,198	115.0	789.0	3.9	248.6	*	248.6	249.5	0.9
035	3,480	125.0	479.0	6.3	254.6	*	254.6	255.6	1.0
047	4,736	80.0	467.0	5.9	258.9	*	258.9	259.7	0.8
061	6,127	135.0	343.0	6.6	266.3	*	266.3	267.3	1.0
074	7,417	75.0	368.0	10.6	273.2	*	273.2	273.6	0.4
Basin 10, Stream 6									
020	2,025	190.0	735.0	5.8	252.3 ¹	*	249.4	250.4	1.0
025	2,454	90.0	583.0	5.5	254.3	*	254.3	255.1	0.8
032	3,167	80.0	302.0	14.1	264.7	*	264.7	265.0	0.3
035	3,471	150.0	1056.0	4.2	270.6	*	270.6	271.4	0.8
041	4,064	137.0	983.0	5.7	271.1	*	271.1	272.1	1.0
Basin 10, Stream 9									
012	1,233	310.0	1307.0	12.7	258.8	*	258.8	259.3	0.5
021	2,121	150.0	1034.0	17.3	267.5	*	267.5	268.3	0.8
032	3,227	170.0	919.0	13.2	275.4	*	275.4	275.6	0.2
042	4,185	305.0	1731.0	10.2	284.4	*	284.4	284.8	0.4
044	4,439	383.0	2695.0	7.8	289.7	*	289.7	290.7	1.0
050	4,985	115.0	970.0	18.5	293.8	*	293.8	294.2	0.4
Basin 10, Stream 10									
002	204	105.0	273.0	7.9	257.8 ¹	*	255.3	256.0	0.7
005	516	80.0	566.0	3.0	260.9	*	260.9	261.6	0.7
016	1,634	115.0	323.0	7.1	261.7	*	261.7	262.7	1.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Basin 10, Stream 10									
025	2,478	110.0	974.0	2.0	275.4	*	275.4	275.8	0.4
033	3,276	70.0	364.0	6.3	275.6	*	275.6	276.4	0.8
Basin 12, Stream 3									
010	1,050	70.0	223.0	7.2	217.2	*	217.2	218.0	0.8
025	2,478	158.0	447.0	3.9	227.1	*	227.1	227.4	0.3
039	3,874	105.0	223.0	9.7	236.2	*	236.2	236.3	0.1
044	4,375	55.0	181.0	9.0	240.7	*	240.7	241.7	1.0
048	4,762	90.0	801.0	1.5	250.5	*	250.5	251.4	0.9
063	6,263	49.0	273.0	6.0	253.2	*	253.2	253.8	0.6
Basin 15, Stream 7									
030	2,964	240.0	1638.0	5.0	169.5 ¹	*	164.0	164.8	0.8
055	5,455	165.0	977.0	8.5	170.8	*	170.8	171.8	1.0
065	6,485	290.0	1523.0	4.1	172.6	*	172.6	173.6	1.0
076	7,623	270.0	1390.0	4.4	176.4	*	176.4	177.0	0.6
084	8,350	310.0	1451.0	2.2	177.0	*	177.0	177.6	0.6
103	10,259	170.0	818.0	5.3	183.7	*	183.7	184.7	1.0
120	11,956	135.0	650.0	5.9	190.9	*	190.9	191.3	0.4
127	12,741	170.0	1151.0	3.7	197.7	*	197.7	197.7	0.0
140	13,985	170.0	799.0	6.4	200.1	*	200.1	200.8	0.7
153	15,277	185.0	742.0	4.7	204.1	*	204.1	205.0	0.9
164	16,445	180.0	497.0	6.3	209.1	*	209.1	210.0	0.9
176	17,606	240.0	395.0	7.2	216.3	*	216.3	217.0	0.7
192	19,158	90.0	289.0	7.1	227.7	*	227.7	228.7	1.0
Basin 15, Stream 8									
007	693	248.0	621.0	6.3	178.4	*	178.4	178.4	0.0
017	1,685	91.0	489.0	6.0	182.6	*	182.6	182.9	0.3
028	2,825	95.0	429.0	7.7	190.1	*	190.1	190.8	0.7
040	4,034	131.0	463.0	5.4	195.7	*	195.7	196.7	1.0
050	4,951	108.0	386.0	6.8	203.3	*	203.3	203.3	0.0
057	5,696	91.0	913.0	3.0	216.1	*	216.1	216.6	0.5
066	6,550	85.0	324.0	8.5	217.1	*	217.1	217.5	0.4
Basin 15, Stream 9									
005	457	46.0	216.0	5.6	170.1 ¹	*	162.1	162.1	0.0
006	648	195.0	980.0	0.9	172.0	*	172.0	172.1	0.1
014	1,363	95.0	474.0	3.3	175.2	*	175.2	175.2	0.0
021	2,144	100.0	275.0	6.4	177.3	*	177.3	177.6	0.3
027	2,727	47.0	252.0	4.0	180.5	*	180.5	180.9	0.4
028	2,774	62.0	293.0	4.2	181.9	*	181.9	182.7	0.8
037	3,652	75.0	281.0	5.2	187.1	*	187.1	187.8	0.7
043	4,333	60.0	162.0	10.9	192.1	*	192.1	192.3	0.2
051	5,081	58.0	542.0	2.6	204.2	*	204.2	204.3	0.1
058	5,807	40.0	205.0	6.2	204.5	*	204.5	204.7	0.2

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Basin 15, Stream 22									
008	824	145.0	752.0	2.3	187.5 ¹	192.5	181.8	181.9	0.1
009	954	155.0	781.0	2.2	187.5 ¹	192.5	181.8	182.0	0.2
019	1,915	98.0	487.0	3.5	187.5 ¹	192.5	185.9	186.9	1.0
027	2,748	80.0	278.0	5.4	193.8	194.2	193.8	193.8	0.0
036	3,624	79.0	435.0	3.5	199.5	200.0	199.5	199.6	0.1
047	4,733	115.0	510.0	3.0	205.5	205.9	205.5	205.8	0.3
056	5,654	80.0	392.0	3.7	214.8	215.1	214.8	215.5	0.7
063	6,324	100.0	506.0	2.5	220.5	220.7	220.5	221.5	1.0
072	7,180	40.0	202.0	4.5	227.5	227.8	227.5	228.5	1.0
Basin 15, Stream 25									
010	979	180.0	1224.0	2.8	193.5 ¹	*	186.0	186.5	0.5
017	1,749	62.0	360.0	9.1	193.5 ¹	*	189.5	190.4	0.9
022	2,238	62.0	455.0	7.5	193.5 ¹	*	192.6	193.6	1.0
027	2,682	80.0	319.0	9.6	195.2	*	195.2	196.2	1.0
037	3,706	44.0	330.0	9.1	207.1	*	207.1	208.1	1.0
047	4,675	90.0	406.0	6.8	214.6	*	214.6	215.6	1.0
055	5,519	60.0	253.0	12.1	221.9	*	221.9	222.5	0.6
066	6,571	85.0	352.0	5.0	243.9	*	243.9	244.1	0.2
078	7,830	45.0	219.0	7.4	253.2	*	253.2	254.2	1.0
Basin 15, Stream 28									
005	480	145.0	687.0	14.2	197.2 ¹	*	192.7	193.2	0.5
017	1,680	275.0	2242.0	4.6	200.3	*	200.3	201.3	1.0
025	2,499	240.0	1702.0	5.8	202.5	*	202.5	203.5	1.0
035	3,521	290.0	1871.0	4.8	204.6	*	204.6	205.6	1.0
042	4,186	225.0	1575.0	5.3	205.8	*	205.8	206.8	1.0
050	5,002	180.0	1262.0	6.4	209.3	*	209.3	210.3	1.0
Basin 15, Stream 32									
004	438	304.0	547.0	3.1	265.5 ¹	*	246.4	246.4	0.0
014	1,381	47.0	160.0	10.8	265.5 ¹	*	253.5	253.5	0.0
019	1,915	45.0	233.0	11.2	265.9	*	265.9	266.7	0.8
026	2,637	186.0	938.0	4.0	272.1	*	272.1	273.1	1.0
033	3,301	110.0	412.0	7.4	274.8	*	274.8	275.6	0.8
038	3,812	100.0	1289.0	2.2	288.1	*	288.1	288.7	0.6
047	4,703	80.0	591.0	4.9	288.2	*	288.2	288.9	0.7
Basin 15, Stream 33									
003	347	31.0	142.0	9.8	268.0 ¹	*	267.4	268.0	0.6
014	1,355	226.0	1846.0	0.5	290.2	*	290.2	290.2	0.0
024	2,429	183.0	788.0	2.0	290.2	*	290.2	290.2	0.0
032	3,211	119.0	1500.0	1.1	304.2	*	304.2	304.2	0.0
037	3,718	100.0	1057.0	1.7	304.2	*	304.2	304.2	0.0
049	4,864	83.0	160.0	6.6	304.5	*	304.5	304.5	0.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Basin 16, Stream 2									
002	189	348.0	652.0	2.2	265.5 ¹	*	248.9	248.9	0.0
017	1,719	229.0	241.0	5.9	265.5 ¹	*	251.5	251.5	0.0
025	2,540	125.0	392.0	5.5	265.5 ¹	*	257.2	258.2	1.0
035	3,501	75.0	195.0	8.7	265.5 ¹	*	262.7	262.7	0.0
045	4,459	60.0	159.0	9.6	269.7	*	269.7	270.1	0.4
052	5,173	55.0	171.0	10.2	275.1	*	275.1	275.1	0.0
067	6,727	50.0	234.0	6.3	287.1	*	287.1	287.6	0.5
070	7,026	96.0	656.0	2.4	293.9	*	293.9	293.9	0.0
076	7,554	92.0	269.0	6.9	294.0	*	294.0	294.1	0.1
085	8,451	90.0	306.0	5.5	300.7	*	300.7	301.0	0.3
092	9,201	81.0	248.0	6.8	305.9	*	305.9	306.9	1.0
104	10,385	45.0	140.0	11.0	317.8	*	317.8	317.9	0.1
106	10,610	66.0	1085.0	1.5	333.0	*	333.0	333.8	0.8
109	10,911	76.0	814.0	1.7	333.0	*	333.0	333.8	0.8
Basin 16, Stream 5									
006	596	498.0	6423.0	0.2	282.6	*	282.6	282.6	0.0
018	1,772	327.0	2215.0	0.5	282.6	*	282.6	282.6	0.0
025	2,496	110.0	369.0	5.3	284.4	*	284.4	284.8	0.4
032	3,192	50.0	203.0	8.2	288.2	*	288.2	288.9	0.7
034	3,425	29.0	502.0	3.1	301.3	*	301.3	301.9	0.6
041	4,118	110.0	1314.0	1.6	301.3	*	301.3	302.1	0.8
049	4,942	140.0	1213.0	1.6	301.3	*	301.3	302.1	0.8
055	5,507	100.0	481.0	4.0	301.3	*	301.3	302.3	1.0
061	6,128	36.0	131.0	11.7	303.7	*	303.7	303.8	0.1
Basin 17, Stream 4									
008	815	88.0	435.0	5.1	294.9	*	294.9	295.8	0.9
013	1,326	140.0	528.0	5.7	298.3	*	298.3	298.3	0.0
025	2,531	135.0	548.0	7.2	303.2	*	303.2	303.9	0.7
035	3,488	140.0	577.0	7.1	307.4	*	307.4	308.3	0.9
045	4,481	90.0	398.0	8.8	312.7	*	312.7	313.5	0.8
057	5,715	125.0	527.0	7.4	319.8	*	319.8	320.5	0.7
068	6,842	100.0	386.0	9.0	327.0	*	327.0	327.7	0.7
077	7,676	110.0	449.0	8.0	332.4	*	332.4	332.9	0.5
084	8,377	120.0	408.0	7.1	335.5	*	335.5	336.4	0.9
092	9,162	48.0	299.0	6.7	343.5	*	343.5	343.6	0.1
093	9,344	161.0	1141.0	2.5	345.8	*	345.8	346.6	0.8
100	10,038	81.0	282.0	4.9	348.1	*	348.1	349.1	1.0
105	10,481	101.0	628.0	2.9	355.9	*	355.9	355.9	0.0
110	10,996	90.0	173.0	9.1	357.8	*	357.8	357.9	0.1
113	11,267	158.0	386.0	6.0	363.6	*	363.6	363.7	0.1
115	11,528	293.0	1436.0	0.6	372.6	*	372.6	372.6	0.0
124	12,418	43.0	109.0	9.8	374.0	*	374.0	374.2	0.2

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Basin 18, Stream 4									
010	1,008	40.0	315.0	7.1	283.1	*	283.1	283.6	0.5
020	2,050	31.0	214.0	9.6	288.2	*	288.2	288.5	0.3
031	3,102	32.0	297.0	10.7	297.7	*	297.7	298.7	1.0
038	3,785	64.0	771.0	4.0	307.7	*	307.7	308.6	0.9
046	4,604	90.0	652.0	7.4	308.7	*	308.7	309.6	0.9
053	5,261	175.0	1191.0	4.5	317.0	*	317.0	317.0	0.0
061	6,082	174.0	1245.0	4.5	324.8	*	324.8	324.8	0.0
071	7,098	54.0	321.0	7.4	327.4	*	327.4	327.6	0.2
081	8,108	63.0	260.0	10.3	337.0	*	337.0	337.0	0.0
092	9,190	60.0	250.0	9.2	346.0	*	346.0	346.8	0.8
102	10,199	44.0	141.0	12.9	357.0	*	357.0	357.1	0.1
111	11,141	65.0	192.0	11.7	373.8	*	373.8	374.1	0.3
119	11,894	70.0	519.0	4.7	386.2	*	386.2	386.2	0.0
127	12,722	39.0	210.0	11.0	401.9	*	401.9	402.7	0.8
Basin 18, Stream 7									
002	200	27.0	234.0	9.5	324.01	*	323.4	324.3	0.9
011	1,065	32.0	259.0	8.5	330.0	*	330.0	330.8	0.8
020	2,002	37.0	262.0	10.0	338.9	*	338.9	339.8	0.9
030	3,000	30.0	186.0	11.4	346.3	*	346.3	347.3	1.0
Basin 18, Stream 8									
003	312	40.0	316.0	10.0	324.0 ¹	*	358.8	359.6	0.8
013	1,302	141.0	752.0	5.9	366.1	*	366.1	367.1	1.0
024	2,364	114.0	814.0	5.7	375.3	*	375.3	375.4	0.1
033	3,259	111.0	698.0	6.1	378.8	*	378.8	379.7	0.9
043	4,283	82.0	483.0	7.7	383.8	*	383.8	384.7	0.9
052	5,224	94.0	558.0	6.6	387.9	*	387.9	388.7	0.8
060	5,957	86.0	468.0	9.0	393.7	*	393.7	394.3	0.6
070	7,035	107.0	620.0	6.8	398.8	*	398.8	399.7	0.9
080	8,040	115.0	1198.0	2.6	411.4	*	411.4	412.1	0.7
089	8,860	87.0	457.0	6.0	411.8	*	411.8	412.8	1.0
099	9,893	41.0	190.0	7.3	416.6	*	416.6	417.5	0.9
106	10,632	50.0	207.0	8.8	424.2	*	424.2	425.0	0.8
116	11,630	49.0	181.0	9.6	430.7	*	430.7	431.6	0.9
Basin 18, Stream 13									
015	1,464	70.0	255.0	4.2	287.9	*	287.9	288.2	0.3
020	1,969	74.0	296.0	3.7	290.7	*	290.7	290.8	0.1
025	2,543	54.0	273.0	3.4	292.6	*	292.6	292.6	0.0
042	4,214	193.0	400.0	5.0	312.4 ²	*	297.5	297.5	0.0
052	5,212	151.0	256.0	9.5	312.4 ²	*	304.4	304.4	0.0
064	6,436	95.0	403.0	6.8	312.4 ²	*	310.7	311.4	0.7
072	7,224	93.0	413.0	7.5	316.0	*	316.0	316.9	0.9
079	7,869	46.0	449.0	4.0	321.2	*	321.2	322.1	0.9

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Basin 18, Stream 13									
080	8,029	61.0	539.0	5.1	323.2	*	323.2	324.2	1.0
Basin 18, Stream 13 Tributary									
006	571	401.0	614.0	1.9	312.4 ¹	*	302.5	302.5	0.0
015	1,503	157.0	253.0	4.7	312.4 ¹	*	304.1	304.1	0.0
023	2,283	85.0	337.0	6.8	312.4 ¹	*	310.2	311.2	1.0
027	2,659	82.0	326.0	5.7	312.5	*	312.5	313.1	0.6
033	3,257	50.0	147.0	11.3	320.8	*	320.8	321.2	0.4
Basin 19, Stream 3									
018	1,809	250.0	496.0	6.1	247.6	*	247.6	248.6	1.0
029	2,901	220.0	550.0	5.5	253.5	*	253.5	254.3	0.8
041	4,068	175.0	512.0	5.3	258.3	*	258.3	259.3	1.0
049	4,922	100.0	354.0	4.1	267.1	*	267.1	267.8	0.7
058	5,779	115.0	228.0	6.4	271.3	*	271.3	271.9	0.6
066	6,619	205.0	3670.0	0.2	297.6	*	297.6	298.4	0.8
078	7,829	80.0	837.0	1.3	297.6	*	297.6	298.5	0.9
086	8,642	165.0	2806.0	0.5	319.0	*	319.0	320.0	1.0
088	8,779	220.0	2903.0	0.4	319.0	*	319.0	320.0	1.0
Basin 19, Stream 4									
003	337	80.0	191.0	7.0	259.5	*	259.5	260.2	0.7
013	1,291	46.0	127.0	8.4	266.7	*	266.7	267.1	0.4
016	1,570	48.0	521.0	1.9	277.8	*	277.8	277.8	0.0
016	1,640	100.0	943.0	1.2	277.8	*	277.8	277.8	0.0
017	1,722	102.0	794.0	1.5	277.8	*	277.8	277.8	0.0
026	2,641	90.0	238.0	5.9	277.9	*	277.9	278.3	0.4
031	3,134	90.0	200.0	6.8	282.9	*	282.9	283.9	1.0
036	3,640	42.0	478.0	2.1	292.6	*	292.6	293.3	0.7
037	3,743	60.0	552.0	2.0	292.6	*	292.6	293.3	0.7
Basin 20, Stream 7									
017	1,667	55.0	240.0	7.1	237.9	*	237.9	238.2	0.3
023	2,266	125.0	480.0	3.9	240.2	*	240.2	241.0	0.8
030	3,004	70.0	360.0	2.9	247.2	*	247.2	247.6	0.4
040	3,997	85.0	207.0	5.4	252.3	*	252.3	253.2	0.9
049	4,859	60.0	176.0	6.6	259.2	*	259.2	260.2	1.0
Basin 20, Stream 8									
002	245	120.0	415.0	2.8	247.8	*	247.8	247.9	0.1
005	527	60.0	129.0	6.3	247.8	*	247.8	248.1	0.3
010	1,003	46.0	127.0	5.7	253.5	*	253.5	253.5	0.0
011	1,053	67.0	147.0	6.1	253.7	*	253.7	253.7	0.0
Basin 20, Stream 20									
007	672	151.0	457.0	5.5	295.4	*	295.4	295.8	0.4
020	1,981	180.0	676.0	4.7	301.8	*	301.8	302.2	0.4
033	3,326	219.0	573.0	6.2	307.8	*	307.8	308.0	0.2

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Basin 20, Stream 20									
045	4,453	75.0	251.0	11.3	313.5	*	313.5	313.5	0.0
049	4,884	161.0	538.0	5.5	315.1	*	315.1	316.1	1.0
054	5,421	465.0	2817.0	0.5	332.8	*	332.8	332.8	0.0
060	6,017	155.0	465.0	4.7	332.7	*	332.7	332.7	0.0
Basin 22, Stream 6									
011	1,121	210.0	571.0	8.4	269.3	*	269.3	270.3	1.0
020	1,994	190.0	1290.0	3.5	277.8	*	277.8	278.5	0.7
030	2,992	110.0	481.0	8.5	281.1	*	281.1	281.7	0.6
040	3,984	100.0	445.0	10.0	288.3	*	288.3	288.6	0.3
053	5,314	175.0	580.0	8.3	295.7	*	295.7	295.8	0.1
063	6,252	275.0	985.0	4.8	300.5	*	300.5	300.7	0.2
081	8,056	100.0	393.0	3.2	311.4	*	311.4	312.2	0.8
086	8,568	60.0	366.0	3.4	319.5	*	319.5	319.8	0.3
099	9,939	55.0	157.0	6.9	332.9	*	332.9	333.1	0.2
115	11,525	40.0	106.0	10.1	351.8	*	351.8	352.2	0.4
Basin 22, Stream 9									
003	293	75.0	296.0	6.7	297.9 ¹	*	297.0	297.7	0.7
008	767	70.0	352.0	6.0	301.4	*	301.4	302.4	1.0
018	1,768	95.0	371.0	5.9	309.9	*	309.9	310.0	0.1
027	2,653	130.0	389.0	5.7	314.8	*	314.8	315.3	0.5
034	3,352	55.0	208.0	10.3	320.1	*	320.1	320.8	0.7
037	3,726	71.0	291.0	7.9	323.5	*	323.5	324.1	0.6
042	4,224	67.0	246.0	8.0	325.8	*	325.8	326.7	0.9
046	4,593	110.0	669.0	2.9	332.4	*	332.4	332.4	0.0
056	5,618	105.0	306.0	5.3	337.3	*	337.3	338.1	0.8
066	6,645	95.0	324.0	6.0	342.9	*	342.9	343.9	1.0
075	7,468	95.0	283.0	7.3	348.4	*	348.4	349.1	0.7
081	8,090	95.0	303.0	6.9	352.3	*	352.3	353.1	0.8
086	8,638	170.0	1236.0	1.8	360.1	*	360.1	360.6	0.5
092	9,200	39.0	211.0	8.1	360.2	*	360.2	360.7	0.5
Basin 22, Stream 20									
006	594	150.0	480.0	10.9	269.8	*	269.8	270.4	0.6
018	1,763	165.0	763.0	4.9	278.6	*	278.6	279.2	0.6
030	3,010	90.0	395.0	9.9	285.3	*	285.3	286.2	0.9
044	4,434	110.0	541.0	7.5	296.8	*	296.8	297.5	0.7
054	5,441	100.0	394.0	10.7	306.1	*	306.1	306.4	0.3
066	6,636	110.0	370.0	3.6	314.8	*	314.8	315.5	0.7
Basin 27, Stream 4									
005	457	130.0	465.0	8.8	283.8	*	283.8	284.7	0.9
018	1,836	150.0	420.0	10.4	290.6	*	290.6	291.5	0.9
030	2,950	180.0	559.0	8.0	298.6	*	298.6	299.6	1.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Basin 28, Stream 8									
008	835	241.0	932.0	1.8	261.9 ¹	*	260.8	261.8	1.0
021	2,082	135.0	859.0	1.9	266.3	*	266.3	267.3	1.0
026	2,646	110.0	470.0	3.5	267.6	*	267.6	268.5	0.9
031	3,074	165.0	693.0	2.4	269.7	*	269.7	270.7	1.0
035	3,530	190.0	690.0	2.4	271.0	*	271.0	272.0	1.0
041	4,088	144.0	693.0	2.4	272.6	*	272.6	273.6	1.0
046	4,644	110.0	535.0	3.1	274.5	*	274.5	275.5	1.0
050	5,013	140.0	502.0	2.1	276.4	*	276.4	277.2	0.8
055	5,541	125.0	553.0	1.9	277.8	*	277.8	278.8	1.0
064	6,406	135.0	569.0	1.8	283.8	*	283.8	284.8	1.0
070	7,035	150.0	531.0	1.8	285.9	*	285.9	286.9	1.0
075	7,458	155.0	473.0	2.0	287.8	*	287.8	288.4	0.6
080	7,956	110.0	409.0	2.3	289.6	*	289.6	290.6	1.0
083	8,272	70.0	296.0	2.1	290.7	*	290.7	291.7	1.0
089	8,865	30.0	121.0	5.2	294.4	*	294.4	295.1	0.7
094	9,352	35.0	156.0	4.0	296.5	*	296.5	297.4	0.9
099	9,857	25.0	114.0	5.5	299.0	*	299.0	300.0	1.0
102	10,244	25.0	126.0	5.0	302.6	*	302.6	303.2	0.6
Basin 30, Stream 3									
005	521	115.0	471.0	7.4	200.5	*	200.5	201.5	1.0
015	1,469	82.0	432.0	6.5	207.0	*	207.0	208.0	1.0
020	2,020	105.0	550.0	5.4	214.6	*	214.6	215.2	0.6
029	2,944	108.0	268.0	10.5	217.6	*	217.6	218.0	0.4
045	4,529	55.0	268.0	4.9	226.8	*	226.8	227.6	0.8
054	5,440	45.0	247.0	7.7	236.0	*	236.0	236.2	0.2
058	5,846	50.0	220.0	7.2	238.6	*	238.6	238.7	0.1
070	7,016	117.0	221.0	9.2	249.6	*	249.6	249.6	0.0
079	7,903	27.0	200.0	1.6	261.9	*	261.9	262.7	0.8
083	8,300	70.0	230.0	1.2	269.7	*	269.7	269.8	0.1
084	8,359	60.0	200.0	1.5	269.7	*	269.7	269.8	0.1
Beaver Creek									
035	3,478	1105.0	7933.0	0.7	237.8 ¹	*	228.3	229.2	0.9
044	4,422	960.0	5437.0	1.1	237.8 ¹	*	228.6	229.6	1.0
051	5,058	800.0	5449.0	1.1	237.8 ¹	*	228.9	229.9	1.0
054	5,445	660.0	3248.0	1.8	237.8 ¹	*	229.1	230.1	1.0
081	8,099	1725.0	14905.0	0.5	237.8 ¹	*	237.7	237.7	0.0
093	9,318	1630.0	14676.0	0.5	237.8 ¹	*	237.7	237.7	0.0
102	10,157	1480.0	12795.0	0.5	237.8 ¹	*	237.7	237.7	0.0
111	11,107	1250.0	5096.0	1.4	237.8 ¹	*	237.6	237.6	0.0
134	13,437	325.0	2591.0	2.1	242.8	*	242.8	243.3	0.5
142	14,247	300.0	2379.0	2.2	243.1	*	243.1	244.0	0.9
148	14,782	380.0	2269.0	2.3	243.5	*	243.5	244.5	1.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Beaver Creek									
155	15,493	375.0	1933.0	2.8	245.0	*	245.0	245.6	0.6
170	16,978	400.0	2250.0	2.4	247.8	*	247.8	248.6	0.8
179	17,902	450.0	2549.0	2.1	249.8	*	249.8	250.6	0.8
188	18,779	465.0	2862.0	1.9	251.2	*	251.2	252.2	1.0
193	19,297	480.0	2314.0	2.3	252.4	*	252.4	253.2	0.8
198	19,805	560.0	2917.0	1.8	254.0	*	254.0	254.8	0.8
205	20,478	525.0	3175.0	1.7	255.2	*	255.2	256.2	1.0
210	21,046	200.0	1371.0	3.9	256.6	*	256.6	257.4	0.8
219	21,857	525.0	3403.0	1.5	259.3	*	259.3	260.3	1.0
225	22,519	600.0	3391.0	1.5	260.4	*	260.4	261.4	1.0
233	23,298	660.0	3775.0	1.4	261.7	*	261.7	262.7	1.0
241	24,104	560.0	3048.0	1.3	262.8	*	262.8	263.8	1.0
248	24,807	360.0	2024.0	2.0	263.8	*	263.8	264.7	0.9
260	26,038	375.0	2799.0	1.4	267.5	*	267.5	268.2	0.7
266	26,585	385.0	2292.0	1.8	267.9	*	267.9	268.8	0.9
273	27,265	380.0	2151.0	1.9	269.4	*	269.4	270.1	0.7
281	28,074	355.0	2078.0	1.9	271.3	*	271.3	272.3	1.0
286	28,637	320.0	1760.0	2.3	273.2	*	273.2	274.2	1.0
293	29,298	375.0	2324.0	1.7	275.2	*	275.2	276.0	0.8
300	29,981	390.0	1988.0	2.0	276.6	*	276.6	277.6	1.0
311	31,057	435.0	2680.0	1.5	280.7	*	280.7	281.6	0.9
315	31,518	490.0	3068.0	1.3	281.1	*	281.1	282.1	1.0
323	32,310	375.0	1927.0	2.1	282.1	*	282.1	283.0	0.9
331	33,147	250.0	967.0	2.6	284.4	*	284.4	285.4	1.0
337	33,702	170.0	670.0	3.7	286.8	*	286.8	287.7	0.9
346	34,572	290.0	1088.0	2.3	291.0	*	291.0	291.7	0.7
354	35,417	210.0	1032.0	2.4	293.3	*	293.3	294.3	1.0
364	36,449	210.0	1326.0	1.9	297.9	*	297.9	298.3	0.4
373	37,256	180.0	933.0	2.7	299.0	*	299.0	299.8	0.8
378	37,783	185.0	1018.0	2.4	300.4	*	300.4	301.4	1.0
383	38,323	240.0	1010.0	2.4	302.1	*	302.1	302.9	0.8
388	38,834	230.0	1086.0	2.2	303.8	*	303.8	304.5	0.7
395	39,504	230.0	1002.0	2.4	305.8	*	305.8	306.8	1.0
399	39,932	215.0	1026.0	2.4	307.5	*	307.5	308.5	1.0
405	40,526	175.0	884.0	2.7	309.9	*	309.9	310.7	0.8
433	43,321	50.0	354.0	4.4	323.7	*	323.7	324.5	0.8
436	43,632	50.0	291.0	5.3	324.6	*	324.6	325.4	0.8
439	43,918	55.0	212.0	7.3	326.3	*	326.3	326.8	0.5
442	44,224	90.0	480.0	3.2	329.1	*	329.1	330.1	1.0
445	44,545	95.0	402.0	3.9	331.0	*	331.0	331.8	0.8
451	45,118	105.0	387.0	4.0	335.1	*	335.1	336.1	1.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Beaver Creek									
458	45,837	165.0	507.0	3.1	341.2	*	341.2	342.2	1.0
464	46,400	130.0	563.0	2.8	345.0	*	345.0	345.8	0.8
475	47,491	130.0	860.0	1.8	353.6	*	353.6	354.4	0.8
480	47,962	155.0	513.0	3.0	354.3	*	354.3	355.3	1.0
484	48,436	108.0	481.0	1.9	360.5	*	360.5	361.5	1.0
488	48,771	60.0	222.0	4.0	360.9	361.1	360.9	361.5	0.6
492	49,196	70.0	208.0	4.3	364.4	364.7	364.4	364.6	0.2
497	49,734	53.0	160.0	5.6	369.3	369.6	369.3	369.4	0.1
Beaver Creek Tributary (Basin 27, Stream 3)									
022	2,237	41.0	296.0	8.7	269.9	*	269.9	270.0	0.1
035	3,509	180.0	806.0	4.5	271.8	*	271.8	272.6	0.8
044	4,424	100.0	368.0	8.9	275.4	*	275.4	276.1	0.7
058	5,791	140.0	520.0	6.6	280.5	*	280.5	281.5	1.0
Beaverdam Creek									
012	1,176	135.0	861.0	2.9	227.7	*	227.7	227.7	0.0
023	2,262	350.0	1017.0	2.3	228.4	*	228.4	228.6	0.2
035	3,489	391.0	614.0	3.1	229.3	*	229.3	229.4	0.1
044	4,351	160.0	497.0	7.3	232.7	*	232.7	233.0	0.3
055	5,485	170.0	478.0	6.8	235.8	*	235.8	236.6	0.8
068	6,829	240.0	758.0	3.2	238.2	*	238.2	239.1	0.9
080	7,981	540.0	1477.0	1.0	240.0	*	240.0	240.1	0.1
088	8,835	121.0	802.0	2.9	246.9	*	246.9	247.2	0.3
095	9,510	99.0	847.0	3.2	251.0	*	251.0	251.3	0.3
109	10,879	240.0	1404.0	1.4	251.4	*	251.4	251.8	0.4
123	12,316	240.0	532.0	4.6	252.6	*	252.6	252.9	0.3
135	13,503	160.0	580.0	3.5	256.9	*	256.9	257.8	0.9
146	14,558	175.0	498.0	6.1	260.9	*	260.9	261.5	0.6
155	15,456	150.0	505.0	4.8	263.5	*	263.5	264.5	1.0
166	16,619	65.0	252.0	5.0	267.2	*	267.2	268.1	0.9
170	16,950	60.0	284.0	4.1	282.0	*	282.0	282.4	0.4
172	17,192	80.0	317.0	4.6	285.4	*	285.4	285.4	0.0
185	18,537	150.0	446.0	3.4	286.1	*	286.1	286.5	0.4
193	19,294	84.0	289.0	4.5	291.5	*	291.5	291.6	0.1
194	19,404	64.0	220.0	6.4	295.6	*	295.6	295.6	0.0
195	19,477	101.0	416.0	4.1	297.0	*	297.0	297.0	0.0
204	20,418	60.0	151.0	10.7	299.4	*	299.4	299.4	0.0
216	21,574	80.0	313.0	5.3	306.8	*	306.8	307.5	0.7
222	22,175	120.0	293.0	6.5	309.8	*	309.8	310.4	0.6
226	22,580	120.0	339.0	5.0	313.3	*	313.3	314.0	0.7
233	23,312	1250.0	6947.0	0.1	326.1	*	326.1	326.4	0.3
245	24,470	22.0	68.0	11.4	327.0	*	327.0	327.8	0.8

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Beaverdam Creek (Basin 12, Stream 1)									
013	1,341	490.0	3100.0	2.1	184.3	*	184.3	184.3	0.0
021	2,098	459.0	2744.0	2.7	184.5	*	184.5	184.5	0.0
031	3,058	892.0	5469.0	1.2	184.7	*	184.7	184.7	0.0
043	4,335	770.0	3264.0	2.1	185.0	*	185.0	185.0	0.0
053	5,321	401.0	2195.0	6.5	187.2	*	187.2	187.2	0.0
061	6,115	726.0	5507.0	1.4	194.3	*	194.3	194.3	0.0
070	7,022	512.0	3962.0	1.9	194.5	*	194.5	194.5	0.0
088	8,820	200.0	1763.0	5.7	198.5	*	198.5	198.9	0.4
097	9,709	160.0	1303.0	7.7	199.7	*	199.7	200.6	0.9
113	11,261	250.0	986.0	4.5	203.1	*	203.1	203.8	0.7
124	12,357	165.0	904.0	4.3	207.8	*	207.8	207.9	0.1
130	12,981	165.0	748.0	4.0	208.6	*	208.6	209.1	0.5
133	13,287	174.0	1149.0	2.6	211.9	*	211.9	212.5	0.6
142	14,234	282.0	787.0	1.7	212.6	*	212.6	213.2	0.6
155	15,538	261.0	242.0	5.6	214.9	*	214.9	214.9	0.0
165	16,489	110.0	344.0	5.0	218.0	*	218.0	218.3	0.3
169	16,877	110.0	689.0	2.5	222.0	*	222.0	222.9	0.9
183	18,273	378.0	879.0	1.5	224.5	*	224.5	224.7	0.2
195	19,544	364.0	752.0	1.4	229.1	*	229.1	229.4	0.3
201	20,089	300.0	2072.0	0.6	236.9	*	236.9	236.9	0.0
213	21,348	155.0	347.0	4.2	237.0	*	237.0	237.0	0.0
225	22,523	60.0	196.0	6.7	248.1	*	248.1	248.9	0.8
234	23,409	70.0	188.0	7.9	251.5	*	251.5	252.4	0.9
246	24,590	50.0	202.0	5.2	262.2	*	262.2	263.2	1.0
257	25,680	55.0	140.0	5.7	271.7	*	271.7	272.3	0.6
262	26,210	70.0	205.0	3.1	277.2	*	277.2	278.2	1.0
265	26,476	60.0	264.0	3.1	281.5	*	281.5	282.1	0.6
272	27,174	40.0	127.0	6.2	287.3	*	287.3	287.4	0.1
277	27,732	41.0	82.0	9.2	297.8	*	297.8	297.8	0.0
Beaverdam Creek (Basin 15, Stream 21)									
014	1,369	565.0	1619.0	2.6	186.3 ¹	*	182.0	182.0	0.0
018	1,759	389.0	1312.0	5.7	186.3 ¹	*	185.7	185.8	0.1
022	2,235	359.0	1456.0	5.3	186.8	*	186.8	186.8	0.0
032	3,215	200.0	962.0	8.9	190.3	*	190.3	190.6	0.3
046	4,564	190.0	1730.0	3.6	200.3	*	200.3	200.8	0.5
056	5,595	133.0	976.0	7.1	202.6	*	202.6	203.6	1.0
068	6,771	265.0	1908.0	4.0	207.3	*	207.3	208.1	0.8
079	7,949	201.0	1029.0	7.6	211.3	*	211.3	212.2	0.9
088	8,815	252.0	1076.0	7.3	216.7	*	216.7	217.1	0.4
099	9,889	136.0	1043.0	7.2	222.5	*	222.5	223.4	0.9
108	10,794	225.0	1152.0	7.6	226.1	*	226.1	227.1	1.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Beaverdam Creek (Basin 15, Stream 21)									
117	11,688	210.0	1175.0	5.2	229.8	*	229.8	230.7	0.9
129	12,933	130.0	632.0	5.7	239.1	*	239.1	239.8	0.7
140	13,952	151.0	1423.0	2.4	251.0	*	251.0	251.7	0.7
Beaverdam Creek (Basin 18, Stream 28)									
005	483	102.0	722.0	10.0	211.8 ¹	*	208.7	209.1	0.4
015	1,461	145.0	1215.0	9.2	213.2	*	213.2	214.2	1.0
027	2,683	405.0	4337.0	0.7	221.1	*	221.1	221.9	0.8
037	3,652	200.0	1044.0	7.9	227.5	*	227.5	227.9	0.4
045	4,527	183.0	897.0	8.4	236.7	*	236.7	236.8	0.1
056	5,621	100.0	668.0	11.4	241.7	*	241.7	242.2	0.5
Big Branch (Basin 10, Stream 8)									
007	738	150.0	456.0	5.1	253.9 ¹	*	249.5	250.2	0.7
015	1,535	455.0	2217.0	0.8	258.4	*	258.4	259.2	0.8
029	2,866	90.0	471.0	5.6	266.1	*	266.1	266.8	0.7
042	4,230	55.0	243.0	10.5	272.0	*	272.0	272.9	0.9
047	4,714	111.0	613.0	3.3	274.6	*	274.6	275.5	0.9
053	5,301	118.0	901.0	1.9	281.0	*	281.0	281.7	0.7
063	6,279	120.0	493.0	3.7	281.4	*	281.4	282.2	0.8
074	7,358	60.0	204.0	8.1	287.2	*	287.2	287.8	0.6
Big Branch (Basin 18, Stream 21)									
018	1,760	93.0	1264.0	3.5	208.8	*	208.8	209.7	0.9
020	1,988	102.0	1291.0	3.8	208.8	*	208.8	209.8	1.0
028	2,759	117.0	1339.0	4.0	209.2	*	209.2	210.2	1.0
038	3,771	102.0	761.0	7.9	211.2	*	211.2	211.9	0.7
048	4,821	69.0	489.0	10.5	216.1	*	216.1	216.9	0.8
058	5,785	294.0	2892.0	2.6	226.6	*	226.6	227.2	0.6
068	6,795	510.0	3420.0	3.3	227.1	*	227.1	227.6	0.5
082	8,164	76.0	506.0	10.1	231.8	*	231.8	232.3	0.5
090	9,010	59.0	406.0	12.4	235.5	*	235.5	236.3	0.8
100	9,956	44.0	317.0	11.9	241.3	*	241.3	242.3	1.0
112	11,190	43.0	321.0	8.8	255.2	*	255.2	255.9	0.7
122	12,166	49.0	339.0	11.1	263.7	*	263.7	264.2	0.5
132	13,191	44.0	380.0	9.8	271.6	*	271.6	272.2	0.6
140	13,955	106.0	912.0	4.5	280.5	*	280.5	281.2	0.7
149	14,917	59.0	421.0	9.5	292.3	*	292.3	293.1	0.8
154	15,446	337.0	3503.0	0.8	314.9	*	314.9	314.9	0.0
163	16,319	108.0	467.0	5.7	314.9	*	314.9	314.9	0.0
Big Branch (Basin 26, Stream 5)									
009	904	600.0	2371.0	2.3	248.8	*	248.8	249.3	0.5
024	2,426	500.0	1538.0	3.6	252.1	*	252.1	252.7	0.6
039	3,888	325.0	1295.0	2.3	254.6	*	254.6	255.1	0.5
046	4,645	250.0	1346.0	2.2	259.1	*	259.1	259.1	0.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Big Branch (Basin 26, Stream 5)									
066	6,611	280.0	825.0	3.6	261.9	*	261.9	262.4	0.5
084	8,435	220.0	903.0	3.3	267.5	*	267.5	268.4	0.9
102	10,236	195.0	834.0	3.6	274.7	*	274.7	275.4	0.7
118	11,813	235.0	765.0	3.7	281.7	*	281.7	281.8	0.1
133	13,266	195.0	790.0	3.6	286.6	*	286.6	287.0	0.4
144	14,435	61.0	650.0	2.1	297.5	*	297.5	297.7	0.2
152	15,224	25.0	441.0	3.1	308.0	*	308.0	308.3	0.3
166	16,633	200.0	1444.0	1.0	308.3	*	308.3	308.6	0.3
177	17,702	155.0	357.0	3.5	310.8	*	310.8	311.5	0.7
187	18,748	111.0	954.0	1.3	323.3	*	323.3	323.3	0.0
190	19,043	165.0	894.0	1.4	323.4	*	323.4	323.4	0.0
Big Branch (Basin 30, Stream 2)									
015	1,496	521.0	3384.0	5.2	183.3	*	183.3	183.8	0.5
024	2,366	562.0	3567.0	5.6	185.7	*	185.7	186.3	0.6
027	2,729	620.0	3844.0	5.5	186.7	*	186.7	187.6	0.9
030	3,025	460.0	2682.0	4.4	187.4	*	187.4	188.3	0.9
040	4,012	300.0	1844.0	5.2	189.2	*	189.2	190.0	0.8
050	5,027	300.0	1727.0	5.6	192.1	*	192.1	192.9	0.8
060	6,022	300.0	1819.0	5.8	195.7	*	195.7	196.3	0.6
070	7,011	320.0	2494.0	3.0	198.5	*	198.5	199.2	0.7
080	8,009	350.0	2086.0	4.2	199.9	*	199.9	200.9	1.0
085	8,452	270.0	1354.0	3.8	201.1	*	201.1	201.8	0.7
095	9,493	270.0	793.0	7.3	204.2	*	204.2	204.6	0.4
105	10,520	240.0	854.0	4.6	208.0	*	208.0	209.0	1.0
114	11,359	225.0	878.0	4.3	212.2	*	212.2	212.9	0.7
126	12,555	180.0	494.0	5.9	217.6	*	217.6	217.9	0.3
135	13,537	180.0	635.0	4.9	222.1	*	222.1	222.8	0.7
138	13,848	180.0	634.0	5.5	224.0	*	224.0	224.9	0.9
143	14,253	609.0	4406.0	0.7	233.1	*	233.1	233.1	0.0
152	15,179	171.0	143.0	8.3	233.6	*	233.6	233.6	0.0
157	15,706	405.0	3932.0	0.3	258.4	*	258.4	258.4	0.0
163	16,330	229.0	1972.0	0.7	258.4	*	258.4	258.4	0.0
171	17,075	252.0	1891.0	0.7	258.4	*	258.4	258.4	0.0
176	17,596	198.0	782.0	3.5	262.1	*	262.1	262.1	0.0
179	17,881	73.0	214.0	11.2	263.8	*	263.8	264.3	0.5
Big Branch Tributary No. 3									
005	473	361.0	2543.0	0.7	198.8	*	198.8	199.2	0.4
015	1,456	225.0	649.0	7.8	200.0	*	200.0	201.0	1.0
020	2,004	110.0	335.0	4.5	203.9	*	203.9	204.1	0.2
027	2,670	274.0	301.0	6.8	209.1	*	209.1	209.9	0.8
039	3,904	127.0	515.0	7.8	218.0	*	218.0	219.0	1.0
051	5,082	51.0	275.0	7.4	228.7	*	228.7	229.5	0.8

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Big Branch Tributary No. 3									
059	5,902	409.0	1541.0	0.7	243.2	*	243.2	243.2	0.0
066	6,645	27.0	88.0	10.9	244.5	*	244.5	244.7	0.2
077	7,697	15.0	60.0	10.4	257.6	*	257.6	257.7	0.1
Big Branch Tributary No.1 (Basin 30, Stream 6)									
010	1,013	382.0	2279.0	4.6	187.1	*	187.1	187.9	0.8
020	1,991	410.0	2075.0	6.1	188.7	*	188.7	189.6	0.9
030	2,991	351.0	1662.0	8.3	190.9	*	190.9	191.7	0.8
040	3,991	305.0	1168.0	9.6	193.8	*	193.8	194.6	0.8
050	5,011	208.0	856.0	7.5	199.4	*	199.4	200.1	0.7
060	5,993	364.0	1442.0	5.5	201.1	*	201.1	202.0	0.9
070	7,008	223.0	601.0	10.9	205.2	*	205.2	206.2	1.0
077	7,671	766.0	970.0	3.4	215.0	*	215.0	215.0	0.0
088	8,813	435.0	3235.0	2.6	215.4	*	215.4	215.4	0.0
101	10,125	152.0	849.0	9.2	217.8	*	217.8	218.0	0.2
111	11,118	257.0	1409.0	6.1	221.2	*	221.2	221.8	0.6
119	11,924	100.0	587.0	8.9	223.5	*	223.5	223.9	0.4
127	12,708	94.0	746.0	5.8	228.6	*	228.6	229.1	0.5
132	13,232	85.0	730.0	6.1	230.3	*	230.3	230.5	0.2
139	13,868	85.0	539.0	6.7	231.2	*	231.2	231.6	0.4
145	14,477	110.0	539.0	6.5	232.2	*	232.2	232.9	0.7
155	15,511	150.0	434.0	10.1	242.3	*	242.3	242.4	0.1
163	16,267	105.0	481.0	6.8	250.9	*	250.9	250.9	0.0
Black Creek Tributary A (Basin 18, Stream 11)									
010	1,005	805.0	1080.0	3.1	284.2 ²	*	274.4	274.4	0.0
020	1,994	435.0	598.0	7.1	284.2 ²	*	278.1	278.1	0.0
029	2,933	140.0	812.0	5.2	288.0	*	288.0	288.0	0.0
036	3,608	125.0	847.0	5.0	292.7	*	292.7	293.6	0.9
042	4,147	140.0	770.0	5.5	295.4	*	295.4	296.2	0.8
048	4,810	165.0	877.0	4.9	299.8	*	299.8	300.2	0.4
054	5,400	80.0	614.0	6.1	303.1	*	303.1	304.1	1.0
061	6,049	90.0	569.0	6.6	307.3	*	307.3	307.8	0.5
067	6,698	70.0	580.0	6.5	312.8	*	312.8	312.8	0.0
073	7,329	130.0	890.0	4.2	315.7	*	315.7	316.3	0.6
078	7,828	70.0	450.0	8.4	318.0	*	318.0	318.3	0.3
084	8,438	55.0	452.0	8.4	322.7	*	322.7	323.6	0.9
090	9,038	145.0	1179.0	3.2	326.5	*	326.5	327.4	0.9
100	9,945	70.0	267.0	7.5	329.3	*	329.3	329.6	0.3
103	10,342	70.0	315.0	6.3	334.1	*	334.1	334.4	0.3
109	10,876	60.0	285.0	7.0	339.3	*	339.3	339.8	0.5
113	11,294	50.0	285.0	7.0	344.5	*	344.5	345.5	1.0
118	11,757	50.0	262.0	6.3	349.5	*	349.5	350.5	1.0
122	12,225	36.0	316.0	5.2	356.2	*	356.2	357.1	0.9

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Black Creek Tributary A (Basin 18, Stream 11)									
128	12,766	85.0	722.0	2.3	362.9	*	362.9	363.8	0.9
133	13,328	40.0	241.0	6.8	366.5	*	366.5	367.5	1.0
Bradley Creek (Basin 24, Stream 3)									
006	558	28.0	88.0	6.3	271.0	*	271.0	271.5	0.5
009	864	28.0	109.0	5.2	275.9	*	275.9	276.1	0.2
011	1,149	46.0	152.0	4.1	283.8	*	283.8	283.8	0.0
013	1,262	55.0	207.0	3.2	284.1	*	284.1	284.1	0.0
Bridges Branch									
007	708	75.0	633.0	0.6	198.9	*	198.9	199.6	0.7
011	1,057	31.0	241.0	3.5	198.9	*	198.9	199.6	0.7
016	1,620	35.0	168.0	4.8	201.8	*	201.8	202.6	0.8
024	2,433	21.0	114.0	8.2	209.4	*	209.4	209.5	0.1
Brier Creek (Basin 18, Stream 14)									
023	2,311	200.0	620.0	5.6	284.2 ²	*	280.7	281.6	0.9
029	2,890	160.0	433.0	6.1	284.2 ²	*	282.0	283.0	1.0
034	3,441	130.0	462.0	5.3	284.2 ²	*	283.5	284.2	0.7
045	4,479	470.0	1768.0	0.8	284.3	284.8	284.3	285.3	1.0
051	5,084	425.0	1550.0	0.9	284.5	285.0	284.5	285.5	1.0
056	5,625	40.0	296.0	4.7	284.7	285.2	284.7	285.6	0.9
070	6,957	95.0	579.0	2.3	288.0	288.5	288.0	288.4	0.4
080	7,969	36.0	252.0	1.7	289.2	289.9	289.2	289.6	0.4
084	8,399	43.0	232.0	1.8	289.3	290.0	289.3	289.6	0.3
089	8,872	56.0	275.0	1.5	289.5	290.1	289.5	289.8	0.3
094	9,438	52.0	223.0	1.9	289.7	290.3	289.7	289.9	0.2
111	11,055	1390.0	29782.0	0.2	318.9	319.0	318.9	318.9	0.0
123	12,282	915.0	18640.0	0.3	318.9	319.0	318.9	318.9	0.0
134	13,385	825.0	18222.0	0.3	318.9	319.0	318.9	318.9	0.0
141	14,110	1290.0	17525.0	0.3	318.9	319.0	318.9	318.9	0.0
146	14,633	925.0	18686.0	0.3	322.2	322.4	322.2	322.2	0.0
155	15,505	375.0	7029.0	0.7	322.2	322.4	322.2	322.2	0.0
158	15,836	380.0	7147.0	0.7	322.2	322.4	322.2	322.2	0.0
167	16,653	70.0	1716.0	3.0	329.2	329.6	329.2	329.8	0.6
169	16,928	60.0	1395.0	1.1	329.2	329.6	329.2	330.1	0.9
173	17,296	60.0	1439.0	1.1	329.2	329.6	329.2	330.1	0.9
178	17,754	60.0	1368.0	1.1	329.2	329.6	329.2	330.1	0.9
181	18,126	60.0	1036.0	1.5	329.2	329.6	329.2	330.1	0.9
186	18,642	60.0	897.0	1.6	329.2	329.6	329.2	330.2	1.0
190	19,016	60.0	799.0	1.8	329.2	329.6	329.2	330.2	1.0
195	19,513	60.0	721.0	2.0	329.2	329.7	329.2	330.2	1.0
Buck Branch (Basin 20, Stream 12)									
009	877	898.0	2680.0	1.2	238.8 ¹	*	227.4	227.4	0.0
015	1,501	611.0	1475.0	2.1	238.8 ¹	*	227.6	227.6	0.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Buck Branch (Basin 20, Stream 12)									
019	1,892	100.0	466.0	6.9	238.8 ¹	*	232.5	232.5	0.0
032	3,249	158.0	456.0	4.9	238.8 ¹	*	236.4	236.5	0.1
049	4,945	160.0	409.0	8.6	240.8	*	240.8	241.8	1.0
060	5,998	139.0	881.0	3.5	247.7	*	247.7	248.7	1.0
078	7,770	174.0	244.0	12.6	252.5	*	252.5	253.3	0.8
087	8,732	115.0	442.0	7.1	257.6	*	257.6	258.4	0.8
091	9,069	165.0	406.0	8.1	259.0	*	259.0	259.9	0.9
100	10,002	170.0	540.0	6.2	264.3	*	264.3	264.7	0.4
109	10,859	100.0	388.0	7.1	267.9	*	267.9	268.5	0.6
112	11,154	48.0	335.0	6.3	270.6	*	270.6	271.1	0.5
122	12,219	100.0	447.0	5.1	275.0	*	275.0	275.4	0.4
127	12,711	67.0	366.0	4.5	276.9	*	276.9	277.3	0.4
141	14,094	100.0	519.0	5.0	283.5	*	283.5	284.1	0.6
150	14,964	40.0	181.0	10.5	286.9	*	286.9	287.2	0.3
Buckhorn Branch (Basin 3, Stream 9)									
009	887	124.0	380.0	8.0	265.5 ¹	*	260.4	261.3	0.9
020	1,996	99.0	374.0	6.4	265.5 ¹	*	264.8	265.7	0.9
030	2,981	125.0	463.0	5.7	269.8	*	269.8	270.6	0.8
041	4,077	80.0	354.0	6.0	274.7	*	274.7	275.5	0.8
051	5,107	38.0	266.0	7.6	280.6	*	280.6	281.4	0.8
060	5,997	22.0	126.0	14.6	284.6	*	284.6	284.7	0.1
072	7,159	60.0	317.0	8.8	294.1	*	294.1	294.8	0.7
081	8,101	55.0	251.0	6.7	301.2	*	301.2	301.3	0.1
Buckhorn Creek									
007	666	290.0	1617.0	6.3	232.0 ¹	*	224.8	225.7	0.9
010	1,017	167.0	1311.0	6.3	232.0 ¹	*	227.8	228.6	0.8
023	2,304	71.0	803.0	9.9	237.0	*	237.0	237.1	0.1
033	3,270	85.0	880.0	8.8	239.4	*	239.4	239.6	0.2
040	4,024	97.0	981.0	6.4	241.5	*	241.5	241.7	0.2
043	4,325	123.0	973.0	9.0	244.3	*	244.3	244.4	0.1
056	5,622	164.0	1177.0	7.7	248.0	*	248.0	248.2	0.2
070	6,976	164.0	1010.0	9.4	252.6	*	252.6	253.1	0.5
083	8,317	306.0	2121.0	5.0	257.2	*	257.2	257.8	0.6
098	9,770	345.0	2078.0	5.3	259.7	*	259.7	260.4	0.7
111	11,106	269.0	1313.0	7.0	262.8	*	262.8	263.6	0.8
122	12,228	263.0	1422.0	7.3	268.4	*	268.4	268.7	0.3
136	13,634	182.0	1135.0	9.1	273.1	*	273.1	273.4	0.3
152	15,195	130.0	659.0	11.1	276.8	*	276.8	277.6	0.8
163	16,321	141.0	776.0	8.9	283.1	*	283.1	283.5	0.4
177	17,740	178.0	1399.0	5.7	291.2	*	291.2	291.4	0.2
192	19,215	145.0	810.0	10.7	295.4	*	295.4	295.7	0.3
203	20,282	210.0	1108.0	8.4	299.6	*	299.6	300.6	1.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Buckhorn Creek									
212	21,225	150.0	905.0	7.3	304.7	*	304.7	305.6	0.9
215	21,531	148.0	1556.0	4.3	312.2	*	312.2	312.8	0.6
228	22,787	210.0	1172.0	6.4	312.8	*	312.8	313.7	0.9
242	24,169	146.0	988.0	7.5	319.9	*	319.9	320.7	0.8
255	25,460	105.0	703.0	10.2	328.1	*	328.1	328.2	0.1
267	26,742	166.0	974.0	7.1	335.1	*	335.1	335.3	0.2
280	27,994	59.0	331.0	17.9	344.5	*	344.5	344.5	0.0
292	29,211	64.0	219.0	11.9	350.5	*	350.5	351.1	0.6
303	30,341	80.0	309.0	9.3	361.6	*	361.6	361.9	0.3
313	31,258	70.0	235.0	8.5	371.5	*	371.5	371.6	0.1
316	31,616	81.0	643.0	3.1	379.3	*	379.3	380.0	0.7
321	32,108	110.0	438.0	5.1	380.0	*	380.0	380.5	0.5
335	33,487	150.0	338.0	9.9	394.1	*	394.1	394.2	0.1
344	34,413	179.0	477.0	3.3	401.9	*	401.9	402.0	0.1
357	35,744	90.0	284.0	8.5	414.6	*	414.6	415.1	0.5
362	36,160	181.0	1004.0	3.3	424.3	*	424.3	425.3	1.0
375	37,495	100.0	399.0	5.7	433.6	*	433.6	434.3	0.7
390	38,950	108.0	454.0	5.1	448.6	*	448.6	449.6	1.0
Buffalo Branch (Basin 10, Stream 22)									
013	1,314	115.0	354.0	6.7	221.4 ¹	*	220.3	220.4	0.1
019	1,931	130.0	533.0	4.2	223.3	*	223.3	224.2	0.9
024	2,360	76.0	84.0	7.0	224.6	*	224.6	224.6	0.0
028	2,771	40.0	77.0	2.9	228.1	*	228.1	228.4	0.3
032	3,166	28.0	38.0	4.8	229.6	*	229.6	229.8	0.2
034	3,428	25.0	47.0	4.0	231.6	*	231.6	231.7	0.1
039	3,893	8.0	30.0	5.2	251.4	*	251.4	251.8	0.4
042	4,151	135.0	575.0	5.5	254.1	*	254.1	254.5	0.4
054	5,433	200.0	832.0	3.7	255.6	*	255.6	256.3	0.7
070	6,990	95.0	350.0	8.5	267.8	*	267.8	268.7	0.9
074	7,424	145.0	680.0	4.9	272.6	*	272.6	273.6	1.0
082	8,230	70.0	331.0	7.3	282.7	*	282.7	283.7	1.0
Buffalo Creek (Basin 9, Stream 1)									
1129	112,937	601.0	5095.0	1.8	246.3	*	246.3	247.1	0.8
1141	114,129	400.0	3240.0	1.7	246.5	*	246.5	247.3	0.8
1152	115,172	250.0	1434.0	5.6	246.8	*	246.8	247.6	0.8
1164	116,392	210.0	1472.0	5.3	249.8	*	249.8	250.3	0.5
1178	117,778	325.0	1947.0	4.7	251.3	*	251.3	252.3	1.0
1190	119,004	145.0	1061.0	7.2	254.6	*	254.6	255.1	0.5
1203	120,297	110.0	957.0	6.8	260.5	*	260.5	260.8	0.3
1207	120,726	192.0	1719.0	3.9	261.4	*	261.4	262.3	0.9
1214	121,417	230.0	2616.0	2.3	261.7	*	261.7	262.5	0.8
1232	123,184	160.0	1318.0	5.4	262.8	*	262.8	263.6	0.8

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Buffalo Creek (Basin 9, Stream 1)									
1238	123,760	420.0	4832.0	1.6	263.1	*	263.1	264.0	0.9
1250	125,010	208.0	2279.0	3.0	263.7	*	263.7	264.7	1.0
1266	126,583	600.0	4910.0	1.6	263.9	*	263.9	264.9	1.0
1281	128,083	205.0	1488.0	4.7	264.1	*	264.1	265.1	1.0
1301	130,072	385.0	3258.0	1.3	266.4	*	266.4	267.1	0.7
1315	131,542	395.0	2403.0	2.3	266.7	*	266.7	267.5	0.8
1327	132,663	223.0	1366.0	3.3	267.7	*	267.7	268.4	0.7
1343	134,301	220.0	1141.0	5.2	269.7	*	269.7	270.5	0.8
1367	136,667	240.0	1554.0	3.2	273.4	*	273.4	274.1	0.7
1374	137,350	265.0	1678.0	2.7	273.6	*	273.6	274.4	0.8
1382	138,238	130.0	819.0	6.4	278.1	*	278.1	278.9	0.8
1392	139,211	370.0	2729.0	2.2	279.1	*	279.1	280.0	0.9
1402	140,188	287.0	2439.0	1.9	281.3	*	281.3	281.9	0.6
1412	141,181	480.0	3404.0	1.8	281.5	*	281.5	282.1	0.6
1421	142,121	415.0	2580.0	1.8	281.6	*	281.6	282.2	0.6
1433	143,346	380.0	2042.0	2.8	281.8	*	281.8	282.4	0.6
1442	144,182	215.0	1547.0	2.3	283.6	*	283.6	284.1	0.5
1457	145,737	310.0	1691.0	3.7	284.0	*	284.0	284.6	0.6
1462	146,232	121.0	926.0	6.4	288.5	*	288.5	288.5	0.0
1482	148,206	121.0	926.0	7.3	288.5	*	288.5	288.5	0.0
1484	148,353	400.0	2849.0	2.3	291.1	*	291.1	291.1	0.0
1492	149,172	535.0	1797.0	6.6	291.1	*	291.1	291.1	0.0
1498	149,784	590.0	2360.0	4.9	292.0	*	292.0	292.2	0.2
1506	150,582	388.0	1908.0	5.0	292.8	*	292.8	293.2	0.4
1511	151,068	470.0	2680.0	3.6	293.3	*	293.3	293.8	0.5
1515	151,453	621.0	3741.0	2.6	293.5	*	293.5	294.0	0.5
1532	153,230	742.0	4343.0	2.3	294.2	*	294.2	294.8	0.6
1540	154,009	526.0	3279.0	2.9	294.4	*	294.4	295.0	0.6
1547	154,676	1019.0	5675.0	1.8	294.6	*	294.6	295.2	0.6
1555	155,525	576.0	3026.0	3.2	294.9	*	294.9	295.5	0.6
1561	156,085	502.0	2246.0	3.7	295.3	*	295.3	295.9	0.6
1568	156,809	420.0	1713.0	4.9	296.1	*	296.1	296.8	0.7
1573	157,348	335.0	1762.0	4.3	296.9	*	296.9	297.6	0.7
1580	157,981	559.0	3003.0	2.8	297.4	*	297.4	298.1	0.7
1587	158,680	400.0	1485.0	5.6	298.0	*	298.0	298.6	0.6
1591	159,108	380.0	1729.0	4.5	298.9	*	298.9	299.6	0.7
1596	159,643	224.0	1129.0	6.1	299.9	*	299.9	300.6	0.7
1602	160,157	147.0	771.0	8.1	301.5	*	301.5	302.2	0.7
1606	160,586	150.0	1036.0	5.6	303.0	*	303.0	303.8	0.8
1613	161,276	396.0	2256.0	3.2	303.9	*	303.9	304.6	0.7
1618	161,795	148.0	832.0	7.0	304.3	*	304.3	305.0	0.7

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Buffalo Creek (Basin 9, Stream 1)									
1623	162,255	120.0	647.0	8.2	305.6	*	305.6	306.2	0.6
1624	162,449	60.0	590.0	6.8	306.1	*	306.1	306.9	0.8
1625	162,488	60.0	591.0	6.8	307.6	*	307.6	307.6	0.0
1630	162,981	280.0	1134.0	6.2	308.8	*	308.8	308.8	0.0
1636	163,582	185.0	1017.0	6.1	309.5	*	309.5	310.3	0.8
1641	164,085	104.0	634.0	8.2	311.3	*	311.3	311.7	0.4
1647	164,718	245.0	1318.0	4.6	313.0	*	313.0	313.7	0.7
1653	165,307	354.0	1977.0	3.2	313.6	*	313.6	314.3	0.7
1658	165,789	303.0	1771.0	3.0	314.0	*	314.0	314.6	0.6
1664	166,435	188.0	1182.0	4.2	314.5	*	314.5	315.2	0.7
1667	166,690	63.0	347.0	8.0	314.6	*	314.6	315.3	0.7
1667	166,734	63.0	419.0	6.8	316.7	*	316.7	316.7	0.0
1672	167,188	203.0	876.0	5.9	318.4	*	318.4	318.6	0.2
1676	167,591	286.0	1174.0	4.7	319.3	*	319.3	319.7	0.4
1682	168,161	184.0	902.0	5.6	320.5	*	320.5	321.1	0.6
1687	168,719	233.0	1109.0	4.7	321.8	*	321.8	322.5	0.7
1693	169,274	479.0	2616.0	2.1	322.3	*	322.3	323.0	0.7
1700	169,969	436.0	2234.0	2.5	322.6	*	322.6	323.3	0.7
1706	170,608	175.0	954.0	5.2	323.1	*	323.1	323.8	0.7
1715	171,550	200.0	1121.0	3.0	324.6	*	324.6	325.3	0.7
1724	172,405	263.0	1230.0	2.9	325.4	*	325.4	326.2	0.8
1730	173,020	259.0	1150.0	2.9	326.1	*	326.1	326.8	0.7
1738	173,812	158.0	601.0	5.6	327.9	*	327.9	328.5	0.6
1749	174,932	339.0	1341.0	2.1	330.0	*	330.0	330.7	0.7
1756	175,647	183.0	557.0	4.9	331.3	*	331.3	332.0	0.7
1764	176,393	87.0	428.0	6.2	335.7	*	335.7	336.4	0.7
1768	176,838	150.0	814.0	3.1	337.1	*	337.1	337.8	0.7
1773	177,312	211.0	859.0	2.9	337.9	*	337.9	338.6	0.7
1778	177,813	326.0	792.0	4.4	339.3	*	339.3	340.0	0.7
1782	178,210	160.0	223.0	8.5	341.2	*	341.2	341.7	0.5
1783	178,265	160.0	721.0	3.9	345.6	*	345.6	345.6	0.0
1788	178,845	267.0	582.0	6.2	346.5	*	346.5	346.7	0.2
1793	179,331	149.0	537.0	5.5	349.6	*	349.6	349.9	0.3
1799	179,893	132.0	531.0	3.8	350.9	*	350.9	351.5	0.6
1805	180,486	96.0	290.0	6.3	352.1	*	352.1	352.8	0.7
1811	181,065	82.0	264.0	6.5	355.0	*	355.0	355.7	0.7
1816	181,631	63.0	212.0	7.4	358.3	*	358.3	359.0	0.7
1821	182,114	37.0	139.0	7.0	361.5	*	361.5	362.1	0.6
1822	182,171	37.0	204.0	5.1	363.9	*	363.9	364.4	0.5
1826	182,556	60.0	152.0	9.7	365.8	*	365.8	365.9	0.1
1831	183,091	79.0	410.0	4.2	368.3	*	368.3	369.0	0.7

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Buffalo Creek (Basin 9, Stream 1)									
1838	183,799	75.0	162.0	9.9	372.6	*	372.6	373.1	0.5
1843	184,304	30.0	116.0	9.7	379.8	*	379.8	380.3	0.5
1845	184,523	70.0	219.0	5.6	382.4	*	382.4	382.8	0.4
1846	184,580	60.0	437.0	3.0	387.7	*	387.7	387.9	0.2
1850	184,994	60.0	150.0	9.4	387.9	*	387.9	388.0	0.1
1856	185,623	47.0	199.0	7.2	393.5	*	393.5	394.0	0.5
1863	186,301	94.0	176.0	9.4	399.4	*	399.4	399.8	0.4
Buffalo Creek West									
170	17,000	51.0	251.0	2.2	245.7	*	245.7	246.3	0.6
Camp Branch (Basin 22, Stream 7)									
015	1,465	290.0	884.0	6.4	292.5	*	292.5	293.1	0.6
029	2,884	230.0	722.0	7.2	297.4	*	297.4	298.2	0.8
042	4,202	235.0	796.0	7.0	303.6	*	303.6	304.5	0.9
048	4,824	235.0	863.0	6.4	306.6	*	306.6	307.4	0.8
054	5,390	255.0	1245.0	4.3	312.5	*	312.5	312.5	0.0
066	6,590	180.0	527.0	7.5	317.2	*	317.2	317.8	0.6
080	7,978	110.0	532.0	6.4	324.0	*	324.0	324.7	0.7
089	8,851	130.0	665.0	5.6	327.5	*	327.5	327.8	0.3
095	9,545	146.0	797.0	4.8	331.1	*	331.1	332.0	0.9
107	10,742	180.0	549.0	7.3	334.3	*	334.3	335.0	0.7
120	12,042	120.0	414.0	8.4	339.5	*	339.5	340.3	0.8
127	12,719	100.0	451.0	7.3	342.4	*	342.4	343.4	1.0
136	13,559	95.0	364.0	10.3	347.0	*	347.0	347.8	0.8
147	14,661	140.0	378.0	11.2	354.2	*	354.2	354.2	0.0
156	15,621	140.0	500.0	6.6	359.1	*	359.1	359.5	0.4
164	16,448	50.0	249.0	11.9	364.7	*	364.7	365.4	0.7
Cary Branch									
007	710	315.0	1019.0	4.0	232.3 ¹	*	223.1	223.1	0.0
018	1,759	300.0	1392.0	4.9	232.3 ¹	*	225.7	226.1	0.4
028	2,802	186.0	1139.0	6.2	232.3 ¹	*	229.0	229.4	0.4
041	4,082	195.0	1131.0	6.0	232.3 ¹	*	231.7	232.5	0.8
051	5,068	216.0	1057.0	6.9	234.1	*	234.1	234.9	0.8
061	6,097	338.0	1984.0	3.6	238.9	*	238.9	239.8	0.9
071	7,085	158.0	694.0	5.9	240.3	*	240.3	241.2	0.9
083	8,289	170.0	598.0	6.9	245.6	*	245.6	245.9	0.3
094	9,372	90.0	328.0	10.0	250.6	*	250.6	251.1	0.5
106	10,605	88.0	354.0	8.9	258.8	*	258.8	259.5	0.7
118	11,789	94.0	378.0	8.8	266.6	*	266.6	267.1	0.5
128	12,758	120.0	526.0	5.7	272.4	*	272.4	273.3	0.9
140	13,967	100.0	415.0	7.0	278.9	*	278.9	279.4	0.5
151	15,144	104.0	379.0	8.2	286.3	*	286.3	286.7	0.4
161	16,110	115.0	397.0	8.5	291.4	*	291.4	292.3	0.9

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Cary Branch									
164	16,401	117.0	379.0	5.8	293.8	*	293.8	294.6	0.8
175	17,490	69.0	292.0	9.2	300.2	*	300.2	301.0	0.8
179	17,913	47.0	197.0	12.2	303.8	*	303.8	304.1	0.3
181	18,060	115.0	454.0	6.6	308.1	*	308.1	309.0	0.9
188	18,785	100.0	376.0	7.4	313.3	*	313.3	313.6	0.3
201	20,102	100.0	383.0	6.8	328.3	*	328.3	329.1	0.8
Cedar Creek (Basin 15, Stream 34)									
045	4,478	212.0	563.0	4.0	265.5 ¹	*	248.8	248.8	0.0
057	5,719	238.0	618.0	3.7	265.5 ¹	*	251.1	251.1	0.0
068	6,829	145.0	583.0	6.7	265.5 ¹	*	259.3	259.8	0.5
081	8,069	130.0	504.0	7.1	265.5 ¹	*	265.0	265.5	0.5
098	9,760	104.0	348.0	9.1	275.3	*	275.3	275.8	0.5
102	10,197	71.0	527.0	3.6	282.7	*	282.7	282.7	0.0
112	11,151	55.0	321.0	6.5	292.3	*	292.3	292.8	0.5
120	12,025	55.0	260.0	6.5	298.2	*	298.2	298.4	0.2
125	12,515	60.0	504.0	3.9	307.2	*	307.2	307.4	0.2
133	13,310	224.0	2788.0	0.5	332.2	*	332.2	332.2	0.0
142	14,242	372.0	2830.0	0.5	332.2	*	332.2	332.2	0.0
152	15,150	80.0	345.0	5.2	334.6	*	334.6	335.5	0.9
159	15,944	50.0	206.0	9.0	339.3	*	339.3	339.9	0.6
Coles Branch (Basin 18, Stream 24)									
008	770	71.0	117.0	2.6	301.8 ¹	*	298.7	298.7	0.0
010	988	29.0	69.0	3.7	301.8 ¹	*	299.1	299.1	0.0
011	1,120	61.0	465.0	0.6	305.1	*	305.1	306.1	1.0
013	1,299	80.0	435.0	0.7	305.1	*	305.1	306.1	1.0
016	1,641	47.0	312.0	0.8	305.2	*	305.2	306.1	0.9
024	2,366	345.0	625.0	4.4	323.6 ²	*	309.3	309.4	0.1
033	3,263	260.0	542.0	10.2	323.6 ²	*	315.7	315.9	0.2
047	4,691	110.0	425.0	8.6	324.2	*	324.2	324.2	0.0
054	5,436	64.0	443.0	6.5	330.6	*	330.6	330.8	0.2
065	6,534	120.0	462.0	9.2	337.8	*	337.8	338.4	0.6
073	7,279	140.0	503.0	8.6	344.4	*	344.4	345.4	1.0
082	8,201	156.0	707.0	2.5	350.9	*	350.9	351.9	1.0
086	8,648	140.0	453.0	4.0	354.4	*	354.4	354.8	0.4
091	9,112	130.0	587.0	3.1	358.6	*	358.6	359.6	1.0
096	9,583	95.0	521.0	3.5	362.3	*	362.3	363.1	0.8
098	9,791	100.0	547.0	3.3	363.9	*	363.9	364.9	1.0
106	10,620	72.0	208.0	5.3	366.3	*	366.3	366.6	0.3
Crabtree Creek (Basin 18, Stream 9)									
011	1,112	112.0	1984.0	7.5	175.3 ¹	173.9	171.8	172.5	0.7
026	2,617	130.0	2029.0	7.4	175.3 ¹	175.2	173.1	173.8	0.7
051	5,101	175.0	2499.0	6.0	178.0	180.0	178.0	178.2	0.2

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Crabtree Creek (Basin 18, Stream 9)									
062	6,153	132.0	2589.0	5.8	179.2	181.4	179.2	179.5	0.3
071	7,145	170.0	2640.0	5.6	179.6	181.8	179.6	179.9	0.3
082	8,242	120.0	2116.0	7.0	179.9	182.1	179.9	180.4	0.5
097	9,706	152.0	2669.0	5.6	181.1	183.3	181.1	181.7	0.6
130	13,001	302.0	4382.0	3.4	184.5	186.9	184.5	185.4	0.9
141	14,111	100.0	1947.0	7.6	185.6	188.2	185.6	186.0	0.4
151	15,131	700.0	7924.0	1.9	186.4	189.0	186.4	187.1	0.7
164	16,369	786.0	6358.0	2.3	186.5	189.1	186.5	187.3	0.8
172	17,176	320.0	4849.0	3.1	186.9	189.3	186.9	187.7	0.8
184	18,437	165.0	2844.0	5.2	187.5	190.0	187.5	188.4	0.9
199	19,886	217.0	3442.0	4.3	190.1	192.4	190.1	191.0	0.9
211	21,144	295.0	4233.0	3.5	190.8	193.1	190.8	191.7	0.9
222	22,224	290.0	3944.0	3.8	192.0	194.5	192.0	192.7	0.7
240	23,977	860.0	11246.0	1.3	192.6	195.0	192.6	193.4	0.8
261	26,135	1390.0	17431.0	0.9	192.8	195.2	192.8	193.7	0.9
275	27,495	1275.0	15757.0	0.9	192.8	195.3	192.8	193.7	0.9
297	29,701	900.0	10152.0	1.3	193.0	195.4	193.0	194.0	1.0
317	31,704	1095.0	9559.0	1.4	193.7	196.0	193.7	194.6	0.9
352	35,238	600.0	5105.0	2.6	197.9	199.4	197.9	198.2	0.3
364	36,424	770.0	5820.0	2.2	197.9	199.3	197.9	198.6	0.7
383	38,273	245.0	1845.0	7.1	200.8	203.4	200.8	201.0	0.2
398	39,806	462.0	4658.0	2.8	201.7	203.8	201.7	202.4	0.7
414	41,412	283.0	2243.0	5.9	202.9	204.6	202.9	203.5	0.6
427	42,725	475.0	3254.0	4.1	205.1	207.0	205.1	205.3	0.2
443	44,283	470.0	4445.0	3.0	206.0	207.4	206.0	206.9	0.9
458	45,787	630.0	6651.0	1.8	206.7	208.1	206.7	207.6	0.9
463	46,296	300.0	3203.0	3.8	206.8	208.2	206.8	207.6	0.8
472	47,206	293.0	3107.0	3.9	209.2	210.0	209.2	209.3	0.1
485	48,471	445.0	5648.0	2.2	210.0	211.2	210.0	210.1	0.1
498	49,799	455.0	5552.0	2.2	210.4	211.7	210.4	210.9	0.5
509	50,942	230.0	2627.0	4.6	210.6	211.8	210.6	211.4	0.8
518	51,762	450.0	5316.0	2.3	211.4	212.9	211.4	212.2	0.8
527	52,734	480.0	4662.0	2.5	211.8	213.4	211.8	212.7	0.9
536	53,562	330.0	3082.0	3.7	212.0	213.6	212.0	212.9	0.9
548	54,827	132.0	1719.0	6.7	213.9	216.0	213.9	214.5	0.6
560	55,989	87.0	1108.0	10.3	215.6	217.4	215.6	216.1	0.5
568	56,807	135.0	1945.0	5.9	218.0	220.3	218.0	218.8	0.8
579	57,870	230.0	2412.0	4.8	218.9	221.2	218.9	219.8	0.9
594	59,365	150.0	2147.0	5.3	220.9	223.3	220.9	221.5	0.6
608	60,797	293.0	2823.0	4.1	222.6	225.4	222.6	223.3	0.7
618	61,824	290.0	2973.0	3.7	223.2	226.0	223.2	224.1	0.9

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Crabtree Creek (Basin 18, Stream 9)									
628	62,848	79.0	1102.0	10.0	223.5	226.1	223.5	224.4	0.9
639	63,891	80.0	1608.0	6.8	226.0	229.3	226.0	226.5	0.5
652	65,209	165.0	2303.0	4.8	228.4	232.1	228.4	228.7	0.3
667	66,744	195.0	2425.0	4.2	229.9	232.9	229.9	230.6	0.7
678	67,755	142.0	1799.0	5.7	231.0	233.9	231.0	231.5	0.5
685	68,462	147.0	2119.0	4.9	232.1	234.6	232.1	232.7	0.6
696	69,592	350.0	4300.0	2.4	233.4	235.3	233.4	234.3	0.9
711	71,112	180.0	2269.0	3.9	233.8	235.7	233.8	234.7	0.9
724	72,397	90.0	1469.0	5.9	234.3	236.4	234.3	235.2	0.9
738	73,840	89.0	1579.0	5.5	235.3	237.6	235.3	236.2	0.9
748	74,754	115.0	1992.0	4.4	235.9	238.3	235.9	236.8	0.9
759	75,859	110.0	1822.0	4.7	236.3	238.8	236.3	237.2	0.9
773	77,272	81.0	1468.0	5.8	236.8	239.2	236.8	237.7	0.9
785	78,456	97.0	1386.0	6.1	237.6	240.1	237.6	238.5	0.9
797	79,662	83.0	1284.0	6.6	240.2	242.7	240.2	241.1	0.9
809	80,907	86.0	1306.0	6.5	241.9	244.6	241.9	242.4	0.5
817	81,724	170.0	2366.0	3.6	242.7	245.6	242.7	243.3	0.6
829	82,898	120.0	1723.0	4.5	243.2	246.0	243.2	244.0	0.8
838	83,849	144.0	1921.0	2.0	244.8	247.4	244.8	245.6	0.8
848	84,846	190.0	2775.0	1.4	244.9	247.6	244.9	245.7	0.8
868	86,842	220.0	1983.0	1.9	245.1	247.8	245.1	246.1	1.0
879	87,851	100.0	1471.0	2.6	245.4	248.1	245.4	246.3	0.9
889	88,854	165.0	1496.0	2.5	245.5	248.3	245.5	246.5	1.0
899	89,870	174.0	1965.0	1.9	245.8	248.5	245.8	246.8	1.0
909	90,863	93.0	1675.0	2.2	246.0	248.7	246.0	247.0	1.0
919	91,922	71.0	1041.0	3.6	246.1	248.8	246.1	247.1	1.0
929	92,868	142.0	1691.0	2.2	246.4	249.3	246.4	247.3	0.9
939	93,856	87.0	930.0	4.0	247.3	250.3	247.3	248.2	0.9
949	94,856	82.0	1004.0	2.1	247.7	250.7	247.7	248.6	0.9
958	95,843	93.0	1121.0	1.9	247.9	250.8	247.9	248.7	0.8
968	96,834	68.0	796.0	2.6	248.0	251.0	248.0	248.8	0.8
973	97,310	78.0	845.0	2.5	248.1	251.1	248.1	249.0	0.9
983	98,311	63.0	638.0	3.3	248.6	251.5	248.6	249.3	0.7
992	99,152	59.0	573.0	3.6	248.9	251.7	248.9	249.6	0.7
998	99,802	62.0	524.0	4.0	249.6	252.4	249.6	250.2	0.6
1008	100,802	62.0	641.0	3.1	250.2	252.8	250.2	250.6	0.4
1019	101,906	59.0	458.0	4.4	250.8	253.4	250.8	251.3	0.5
1026	102,559	49.0	361.0	5.5	251.7	254.1	251.7	252.2	0.5
1043	104,262	49.0	349.0	5.7	255.1	257.1	255.1	255.5	0.4
1066	106,629	55.0	426.0	4.7	260.2	262.2	260.2	260.6	0.4
1078	107,774	80.0	724.0	4.7	265.5	*	265.5	265.6	0.1

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Crabtree Creek (Basin 18, Stream 9)									
1088	108,847	60.0	724.0	4.3	267.1	*	267.1	267.5	0.4
1100	110,032	43.0	527.0	5.5	267.7	*	267.7	268.3	0.6
1111	111,085	60.0	730.0	2.5	269.2	*	269.2	269.2	0.0
1116	111,598	110.0	1212.0	1.7	269.6	*	269.6	269.6	0.0
1117	111,722	115.0	1109.0	1.8	269.8	*	269.8	269.8	0.0
1125	112,464	147.0	238.0	7.3	271.4	*	271.4	271.4	0.0
1191	119,076	2303.0	8154.0	1.0	284.2 ²	*	274.3	274.3	0.0
1209	120,872	2120.0	3344.0	5.0	284.2 ²	*	280.5	280.6	0.1
1214	121,393	190.0	1235.0	7.6	284.2 ²	*	281.3	282.1	0.8
1215	121,512	250.0	1737.0	6.5	284.2 ²	*	282.7	283.1	0.4
1237	123,669	1150.0	4582.0	3.1	284.4	*	284.4	285.3	0.9
1260	125,982	500.0	2208.0	5.0	286.9	*	286.9	287.5	0.6
1271	127,093	112.0	1007.0	8.3	289.9	*	289.9	290.4	0.5
1272	127,248	250.0	2215.0	5.3	293.2	*	293.2	293.4	0.2
1283	128,326	530.0	3586.0	3.9	293.9	*	293.9	294.4	0.5
1300	129,953	545.0	2221.0	2.7	294.2	*	294.2	295.1	0.9
1310	131,025	305.0	1546.0	4.2	297.5	*	297.5	297.8	0.3
1311	131,106	315.0	1229.0	6.3	297.5	*	297.5	297.9	0.4
1323	132,307	475.0	2359.0	2.6	298.3	*	298.3	299.3	1.0
1330	133,048	449.0	1421.0	5.5	299.3	*	299.3	299.9	0.6
1345	134,528	194.0	895.0	7.0	301.8	*	301.8	302.7	0.9
1356	135,607	100.0	544.0	4.6	303.3	*	303.3	304.3	1.0
1362	136,204	342.0	1569.0	1.8	307.3	*	307.3	307.5	0.2
1374	137,412	298.0	2257.0	1.0	312.0	*	312.0	312.0	0.0
1383	138,301	245.0	1837.0	1.2	312.0	*	312.0	312.0	0.0
1387	138,729	400.0	1335.0	1.6	312.0	*	312.0	312.0	0.0
1390	138,960	107.0	332.0	6.6	312.8	*	312.8	312.8	0.0
1392	139,213	98.0	367.0	7.0	313.5	*	313.5	313.5	0.0
1403	140,302	120.0	724.0	4.3	321.8	*	321.8	321.8	0.0
1411	141,140	120.0	501.0	0.6	322.5	*	322.5	322.9	0.4
1415	141,480	75.0	327.0	0.6	322.5	*	322.5	322.9	0.4
1423	142,349	33.0	64.0	2.7	323.9	*	323.9	323.9	0.0
1428	142,767	40.0	72.0	2.5	326.8	*	326.8	326.8	0.0
Crabtree Creek Tributary No. 6 (Basin 18, Stream 20)									
015	1,451	440.0	929.0	3.7	284.2 ²	*	281.3	282.2	0.9
024	2,412	110.0	439.0	6.9	287.2	*	287.2	288.0	0.8
031	3,126	56.0	314.0	8.9	293.2	*	293.2	293.2	0.0
038	3,812	66.0	498.0	5.7	297.5	*	297.5	298.1	0.6
049	4,872	85.0	202.0	9.5	302.8	*	302.8	302.9	0.1
061	6,106	60.0	259.0	7.2	313.5	*	313.5	313.9	0.4
068	6,768	70.0	212.0	9.1	319.4	*	319.4	320.0	0.6

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Crabtree Creek Tributary No. 6 (Basin 18, Stream 20)									
075	7,478	38.0	188.0	7.6	326.1	*	326.1	326.6	0.5
Dunn Creek (Basin 6, Stream 5)									
009	894	195.0	961.0	4.9	230.3 ¹	*	228.5	229.2	0.7
024	2,423	185.0	852.0	5.1	233.4	*	233.4	234.1	0.7
033	3,260	165.0	858.0	4.7	235.7	*	235.7	236.6	0.9
040	4,011	180.0	747.0	7.6	239.1	*	239.1	239.7	0.6
052	5,193	80.0	298.0	10.5	243.7	*	243.7	244.7	1.0
058	5,803	147.0	490.0	4.9	249.1	*	249.1	250.1	1.0
069	6,888	80.0	288.0	7.5	256.3	*	256.3	257.2	0.9
078	7,790	125.0	539.0	5.6	260.6	*	260.6	261.6	1.0
083	8,261	121.0	482.0	4.8	264.2	*	264.2	264.3	0.1
087	8,652	120.0	696.0	3.1	266.8	*	266.8	266.9	0.1
097	9,731	85.0	432.0	7.2	274.6	*	274.6	274.8	0.2
107	10,697	45.0	223.0	10.1	278.9	*	278.9	279.3	0.4
110	10,974	104.0	842.0	3.0	286.4	*	286.4	286.4	0.0
123	12,280	42.0	165.0	13.0	290.6	*	290.6	290.6	0.0
134	13,426	60.0	323.0	7.1	305.4	*	305.4	306.0	0.6
143	14,347	95.0	345.0	6.0	309.3	*	309.3	310.3	1.0
148	14,832	50.0	360.0	5.1	317.3	*	317.3	317.8	0.5
161	16,111	45.0	265.0	6.6	323.6	*	323.6	324.5	0.9
175	17,484	60.0	334.0	5.7	337.4	*	337.4	338.3	0.9
187	18,745	52.0	236.0	7.9	350.4	*	350.4	351.3	0.9
203	20,328	50.0	203.0	5.9	367.8	*	367.8	368.4	0.6
208	20,775	307.0	2304.0	0.3	378.3	*	378.3	378.3	0.0
222	22,233	40.0	146.0	5.2	386.2	*	386.2	386.8	0.6
Dutchmans Branch (Basin 20, Stream 17)									
012	1,240	443.0	445.0	2.7	289.8 ¹	*	271.5	271.5	0.0
026	2,646	243.0	297.0	4.1	289.8 ¹	*	277.2	277.2	0.0
039	3,901	138.0	315.0	7.2	289.8 ¹	*	286.5	287.0	0.5
044	4,393	110.0	612.0	2.3	289.8 ¹	*	289.3	290.0	0.7
046	4,599	580.0	5164.0	0.5	293.1	*	293.1	293.1	0.0
055	5,453	455.0	646.0	9.2	295.1	*	295.1	295.4	0.3
070	7,041	310.0	852.0	6.5	301.5	*	301.5	302.2	0.7
082	8,163	150.0	427.0	10.3	307.4	*	307.4	307.8	0.4
086	8,597	119.0	619.0	6.7	311.0	*	311.0	311.0	0.0
096	9,606	200.0	507.0	11.0	314.8	*	314.8	315.4	0.6
117	11,682	250.0	752.0	7.2	323.3	*	323.3	324.2	0.9
132	13,246	210.0	739.0	7.0	331.5	*	331.5	332.5	1.0
147	14,706	190.0	769.0	5.9	337.9	*	337.9	338.9	1.0
157	15,736	140.0	600.0	7.8	343.7	*	343.7	344.4	0.7
168	16,801	290.0	900.0	6.2	348.7	*	348.7	349.6	0.9
184	18,369	200.0	682.0	7.6	355.2	*	355.2	355.7	0.5

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Dutchmans Branch (Basin 20, Stream 17)									
191	19,123	158.0	553.0	7.4	358.7	*	358.7	359.6	0.9
196	19,574	148.0	779.0	4.7	363.6	*	363.6	364.6	1.0
209	20,884	150.0	504.0	7.9	367.9	*	367.9	368.6	0.7
222	22,183	120.0	688.0	5.3	378.3	*	378.3	378.8	0.5
233	23,260	145.0	692.0	5.3	380.9	*	380.9	381.6	0.7
246	24,629	180.0	685.0	5.8	386.2	*	386.2	387.0	0.8
258	25,770	100.0	370.0	7.8	391.2	*	391.2	391.9	0.7
East Fork Mine Creek (Basin 18, Stream 34)									
006	615	41.0	294.0	8.1	279.5 ¹	*	274.1	274.8	0.7
015	1,494	31.0	276.0	11.3	282.3	*	282.3	282.8	0.5
026	2,582	206.0	1783.0	2.2	305.5	*	305.5	305.6	0.1
040	4,034	82.0	778.0	1.7	318.4	*	318.4	318.7	0.3
051	5,135	150.0	945.0	2.5	327.2	*	327.2	327.3	0.1
061	6,109	46.0	192.0	7.9	329.5	*	329.5	329.5	0.0
071	7,060	72.0	350.0	3.8	335.2	*	335.2	336.2	1.0
077	7,700	25.0	168.0	17.3	342.0	*	342.0	343.0	1.0
East Fork Mine Creek Tributary (Basin 18, Stream 35)									
000	21	137.0	492.0	8.3	318.4 ¹	*	312.5	312.5	0.0
006	604	58.0	263.0	12.1	325.6	*	325.6	325.6	0.0
019	1,933	233.0	681.0	5.2	344.3	*	344.3	344.3	0.0
029	2,939	64.0	314.0	8.2	352.4	*	352.4	353.4	1.0
034	3,369	26.0	196.0	9.1	355.1	*	355.1	356.1	1.0
Echo Creek (Basin 20, Stream 14)									
010	1,035	340.0	855.0	5.0	259.5 ¹	*	255.0	255.8	0.8
019	1,897	103.0	666.0	4.7	262.8	*	262.8	263.5	0.7
026	2,605	90.0	519.0	5.2	264.6	*	264.6	265.4	0.8
030	3,028	84.0	496.0	6.7	266.2	*	266.2	266.4	0.2
045	4,455	150.0	818.0	4.8	270.1	*	270.1	271.0	0.9
053	5,329	90.0	418.0	6.8	274.2	*	274.2	275.0	0.8
058	5,807	70.0	307.0	7.2	278.8	*	278.8	278.8	0.0
069	6,891	165.0	521.0	5.2	281.6	*	281.6	282.6	1.0
076	7,636	105.0	304.0	5.8	284.7	*	284.7	285.5	0.8
079	7,933	107.0	419.0	4.2	290.0	*	290.0	290.0	0.0
090	9,011	45.0	192.0	9.1	293.9	*	293.9	294.4	0.5
096	9,579	50.0	201.0	8.4	298.2	*	298.2	298.5	0.3
099	9,873	73.0	279.0	7.9	306.2	*	306.2	307.1	0.9
101	10,146	65.0	246.0	7.0	307.5	*	307.5	308.2	0.7
103	10,324	67.0	347.0	4.7	312.7	*	312.7	313.6	0.9
107	10,674	26.0	109.0	13.4	317.2	*	317.2	317.2	0.0
Gill Creek (Basin 10, Stream 24)									
018	1,771	110.0	316.0	5.8	229.0 ¹	*	228.5	229.1	0.6
032	3,175	135.0	449.0	3.4	236.3	*	236.3	236.5	0.2

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Gill Creek (Basin 10, Stream 24)									
042	4,191	70.0	317.0	6.8	244.8	*	244.8	245.5	0.7
051	5,138	70.0	388.0	6.1	257.4	*	257.4	258.0	0.6
056	5,599	110.0	530.0	4.5	258.8	*	258.8	259.7	0.9
058	5,793	165.0	655.0	3.7	263.0	*	263.0	263.3	0.3
063	6,284	132.0	816.0	2.9	265.6	*	265.6	266.6	1.0
066	6,626	46.0	163.0	12.7	270.4	*	270.4	270.4	0.0
Haleys Branch (Basin 18, Stream 10)									
017	1,728	264.0	573.0	3.9	284.2 ²	*	277.5	277.5	0.0
028	2,786	110.0	572.0	6.5	284.2 ²	*	282.4	283.3	0.9
036	3,564	95.0	448.0	7.6	286.6	*	286.6	287.2	0.6
043	4,321	95.0	435.0	8.2	291.7	*	291.7	292.7	1.0
050	5,024	115.0	375.0	8.6	296.4	*	296.4	297.3	0.9
Hare Snipe Creek (Basin 18, Stream 1)									
010	1,017	50.0	580.0	7.0	233.8 ¹	*	233.5	234.0	0.5
020	2,028	107.0	824.0	6.7	238.4	*	238.4	239.3	0.9
030	3,038	48.0	372.0	11.2	245.9	*	245.9	246.8	0.9
038	3,755	71.0	381.0	13.3	255.4	*	255.4	255.8	0.4
047	4,656	102.0	819.0	9.4	270.8	*	270.8	270.9	0.1
056	5,592	65.0	437.0	9.9	276.3	*	276.3	277.2	0.9
066	6,579	195.0	816.0	8.6	283.6	*	283.6	284.3	0.7
072	7,183	280.0	1735.0	5.1	286.8	*	286.8	287.8	1.0
082	8,176	95.0	734.0	7.6	292.3	*	292.3	293.0	0.7
090	9,037	280.0	1530.0	4.3	294.7	*	294.7	295.7	1.0
096	9,559	115.0	597.0	4.6	295.9	*	295.9	296.6	0.7
101	10,086	65.0	401.0	7.3	298.4	*	298.4	299.2	0.8
107	10,691	67.0	405.0	6.5	299.9	*	299.9	300.7	0.8
115	11,462	76.0	466.0	7.3	303.5	*	303.5	304.2	0.7
123	12,336	22.0	200.0	3.4	310.7	*	310.7	311.1	0.4
130	12,966	35.0	246.0	3.0	311.0	*	311.0	311.8	0.8
136	13,558	22.0	131.0	5.4	312.3	*	312.3	313.0	0.7
138	13,847	36.0	304.0	0.5	314.5	*	314.5	315.4	0.9
Hatchet Grove Tributary (Basin 18, Stream 25)									
022	2,201	658.0	1846.0	2.6	294.5	*	294.5	295.0	0.5
037	3,694	220.0	1071.0	5.3	298.5	*	298.5	299.4	0.9
044	4,433	180.0	927.0	6.1	300.9	*	300.9	301.4	0.5
051	5,111	165.0	963.0	5.4	302.3	*	302.3	303.1	0.8
062	6,186	222.0	989.0	5.0	304.4	*	304.4	305.2	0.8
068	6,778	150.0	716.0	3.1	305.5	*	305.5	306.0	0.5
079	7,923	68.0	368.0	3.7	307.6	*	307.6	308.1	0.5
088	8,758	75.0	280.0	4.2	309.7	*	309.7	310.4	0.7
095	9,523	100.0	309.0	4.1	311.4	*	311.4	312.0	0.6
101	10,053	55.0	158.0	7.0	313.2	*	313.2	313.7	0.5

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Hillard Creek (Basin 30, Stream 7)									
005	494	116.0	304.0	7.4	221.5 ¹	*	221.4	222.4	1.0
016	1,565	89.0	203.0	9.9	229.0	*	229.0	229.1	0.1
028	2,766	108.0	189.0	9.6	236.8	*	236.8	236.9	0.1
035	3,548	88.0	216.0	9.1	241.0	*	241.0	241.1	0.1
043	4,342	81.0	158.0	7.5	250.0	*	250.0	250.2	0.2
Hodges Creek (Basin 8, Stream 1)									
003	269	468.0	1282.0	11.1	191.3 ¹	*	182.3	182.7	0.4
014	1,414	515.0	3789.0	1.4	191.3 ¹	*	183.8	184.3	0.5
023	2,325	290.0	1567.0	10.8	191.3 ¹	*	184.6	185.0	0.4
033	3,334	380.0	1822.0	9.3	191.3 ¹	*	186.8	187.6	0.8
042	4,248	165.0	1288.0	10.5	192.0	*	192.0	192.1	0.1
050	4,995	107.0	908.0	10.6	194.2	*	194.2	194.8	0.6
059	5,855	120.0	1092.0	7.9	197.1	*	197.1	197.7	0.6
070	6,969	225.0	1948.0	5.9	199.6	*	199.6	200.1	0.5
077	7,741	233.0	1901.0	5.7	200.2	*	200.2	200.7	0.5
086	8,567	145.0	970.0	5.5	202.1	*	202.1	202.8	0.7
100	9,999	120.0	683.0	6.3	205.1	*	205.1	205.8	0.7
112	11,174	210.0	1071.0	4.3	207.2	*	207.2	208.1	0.9
114	11,409	106.0	622.0	6.2	208.2	*	208.2	209.1	0.9
127	12,672	320.0	1292.0	3.9	209.7	*	209.7	210.7	1.0
136	13,557	200.0	828.0	6.4	211.7	*	211.7	212.4	0.7
143	14,288	120.0	476.0	9.8	213.7	*	213.7	214.6	0.9
150	14,993	120.0	659.0	7.1	217.8	*	217.8	218.6	0.8
152	15,162	85.0	650.0	5.5	218.5	*	218.5	219.4	0.9
169	16,907	79.0	426.0	10.3	223.2	*	223.2	223.5	0.3
Hominy Branch (Basin 10, Stream 4)									
017	1,735	160.0	552.0	3.8	228.2 ¹	*	223.4	224.3	0.9
030	2,995	110.0	358.0	6.4	230.2	*	230.2	230.4	0.2
041	4,078	105.0	479.0	4.0	235.8	*	235.8	236.3	0.5
050	5,045	120.0	336.0	5.1	236.8	*	236.8	237.8	1.0
065	6,496	145.0	390.0	4.9	245.3	*	245.3	246.3	1.0
076	7,614	110.0	418.0	4.6	250.9	*	250.9	251.9	1.0
088	8,751	60.0	200.0	7.1	255.4	*	255.4	256.3	0.9
097	9,749	60.0	263.0	5.2	263.3	*	263.3	263.4	0.1
104	10,432	65.0	244.0	6.7	265.7	*	265.7	266.3	0.6
108	10,796	75.0	402.0	4.8	271.0	*	271.0	271.2	0.2
117	11,739	70.0	367.0	4.8	275.9	*	275.9	276.1	0.2
125	12,478	50.0	214.0	7.3	278.7	*	278.7	279.3	0.6
Hominy Creek (Basin 10, Stream 7)									
014	1,442	167.0	956.0	3.6	252.5 ¹	*	248.3	249.3	1.0
018	1,787	120.0	730.0	5.2	252.5 ¹	*	250.2	250.9	0.7
022	2,196	270.0	1639.0	4.6	252.5 ¹	*	250.5	251.5	1.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Honeycutt Creek (Basin 15, Stream 31)									
000	32	225.0	925.0	2.8	265.5 ¹	254.9	254.8	254.9	0.1
013	1,294	250.0	723.0	3.6	265.5 ¹	258.1	258.0	258.2	0.2
019	1,907	265.0	759.0	3.5	265.5 ¹	260.2	260.1	260.6	0.5
029	2,907	250.0	857.0	3.1	265.6	265.7	265.6	265.8	0.2
035	3,476	150.0	546.0	4.8	266.9	267.0	266.9	267.5	0.6
039	3,911	110.0	581.0	3.7	269.0	269.1	269.0	269.7	0.7
048	4,848	100.0	536.0	4.0	272.9	273.1	272.9	273.8	0.9
061	6,118	65.0	316.0	6.7	276.8	276.9	276.8	277.5	0.7
067	6,652	45.0	287.0	7.4	281.0	281.1	281.0	281.3	0.3
075	7,529	39.0	255.0	8.3	287.2	287.3	287.2	287.8	0.6
083	8,305	65.0	263.0	8.1	294.7	294.8	294.7	294.7	0.0
088	8,768	70.0	388.0	5.2	299.3	299.5	299.3	299.8	0.5
092	9,209	200.0	2019.0	1.0	307.8	307.9	307.8	308.7	0.9
094	9,406	202.0	1730.0	1.2	307.8	308.0	307.8	308.8	1.0
096	9,582	200.0	1707.0	1.2	307.9	308.0	307.9	308.8	0.9
Horse Creek									
100	10,002	203.0	938.0	4.4	265.5 ¹	*	247.6	247.8	0.2
106	10,582	133.0	613.0	6.5	265.5 ¹	*	248.3	248.5	0.2
113	11,345	100.0	1113.0	3.5	265.5 ¹	*	260.6	260.6	0.0
123	12,329	100.0	849.0	5.3	265.5 ¹	*	261.0	261.0	0.0
128	12,766	103.0	660.0	7.8	265.5 ¹	*	261.7	261.7	0.0
134	13,438	100.0	759.0	7.8	265.5 ¹	*	264.0	264.1	0.1
140	14,002	110.0	823.0	6.5	265.9	*	265.9	266.2	0.3
147	14,734	110.0	897.0	5.5	267.5	*	267.5	268.2	0.7
156	15,602	100.0	822.0	6.3	271.3	*	271.3	272.0	0.7
164	16,406	70.0	637.0	7.5	272.7	*	272.7	273.1	0.4
168	16,799	56.0	618.0	7.2	275.0	*	275.0	275.3	0.3
178	17,829	70.0	733.0	5.7	278.5	*	278.5	279.2	0.7
186	18,648	45.0	358.0	11.1	281.1	*	281.1	281.3	0.2
193	19,269	160.0	989.0	5.8	283.9	*	283.9	284.4	0.5
203	20,255	70.0	491.0	7.8	284.6	*	284.6	285.5	0.9
214	21,367	70.0	607.0	7.2	290.7	*	290.7	291.1	0.4
223	22,252	160.0	856.0	5.8	293.2	*	293.2	293.7	0.5
231	23,100	109.0	557.0	8.4	295.5	*	295.5	296.2	0.7
235	23,464	60.0	580.0	6.6	298.5	*	298.5	298.6	0.1
244	24,392	50.0	389.0	11.0	302.6	*	302.6	303.0	0.4
254	25,379	155.0	758.0	7.2	305.7	*	305.7	306.5	0.8
261	26,143	130.0	749.0	7.3	307.8	*	307.8	308.6	0.8
273	27,298	235.0	933.0	6.3	310.8	*	310.8	311.3	0.5
285	28,481	540.0	2660.0	2.7	313.7	*	313.7	314.6	0.9
301	30,052	240.0	945.0	4.2	314.8	*	314.8	315.6	0.8

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Horse Creek									
309	30,851	100.0	604.0	6.7	318.8	*	318.8	318.8	0.0
327	32,743	290.0	1183.0	3.7	321.6	*	321.6	322.5	0.9
333	33,279	250.0	977.0	4.6	322.4	*	322.4	323.2	0.8
339	33,932	300.0	1086.0	4.6	323.5	*	323.5	324.4	0.9
340	33,978	300.0	1101.0	4.1	323.7	*	323.7	324.5	0.8
344	34,417	240.0	1100.0	4.1	324.8	*	324.8	325.7	0.9
354	35,446	294.0	913.0	6.1	327.3	*	327.3	328.2	0.9
360	35,960	292.0	1016.0	5.0	328.7	*	328.7	329.5	0.8
366	36,602	144.0	616.0	6.5	332.4	*	332.4	332.8	0.4
376	37,583	80.0	469.0	10.1	334.5	*	334.5	334.7	0.2
388	38,751	120.0	511.0	9.9	336.5	*	336.5	337.0	0.5
396	39,606	110.0	653.0	8.3	339.6	*	339.6	339.6	0.0
402	40,200	288.0	1327.0	5.6	341.2	*	341.2	341.4	0.2
House Creek (Basin 18, Stream 36)									
006	586	98.0	974.0	2.4	228.4 ¹	232.1	223.9	224.5	0.6
016	1,563	105.0	859.0	2.7	231.0	232.1	231.0	231.1	0.1
026	2,562	87.0	347.0	6.6	234.4	234.7	234.4	234.5	0.1
034	3,375	44.0	288.0	7.9	238.9	239.2	238.9	239.5	0.6
044	4,382	159.0	887.0	2.6	250.6	251.9	250.6	250.6	0.0
054	5,409	250.0	2061.0	1.3	263.2	265.1	263.2	263.2	0.0
063	6,333	305.0	981.0	2.7	263.5	265.3	263.5	263.5	0.0
074	7,447	61.0	364.0	7.4	271.3	271.8	271.3	272.3	1.0
085	8,506	46.0	364.0	7.4	277.6	278.0	277.6	278.5	0.9
099	9,871	60.0	345.0	7.8	289.5	289.9	289.5	289.6	0.1
106	10,579	129.0	1206.0	2.1	303.0	305.8	303.0	303.0	0.0
114	11,414	115.0	1466.0	0.8	313.3	315.5	313.3	313.3	0.0
126	12,612	95.0	332.0	3.3	313.5	315.6	313.5	313.8	0.3
135	13,543	52.0	221.0	5.0	321.0	322.4	321.0	321.0	0.0
146	14,571	386.0	1655.0	0.6	341.2	347.6	341.2	341.2	0.0
154	15,358	62.0	227.0	5.5	344.6	348.0	344.6	344.6	0.0
Kenneth Branch (Basin 24, Stream 6)									
004	432	80.0	93.0	6.5	366.9	*	366.9	367.1	0.2
008	841	38.0	133.0	3.8	371.9	*	371.9	371.9	0.0
012	1,239	23.0	164.0	3.2	376.7	*	376.7	377.4	0.7
017	1,655	38.0	372.0	1.2	383.7	*	383.7	383.7	0.0
022	2,226	80.0	608.0	0.8	383.7	*	383.7	383.8	0.1
035	3,458	55.0	124.0	3.9	383.8	*	383.8	384.3	0.5
Kenneth Creek (Basin 24, Stream 2)									
266	26,614	157.0	1382.0	4.2	262.1	*	262.1	262.8	0.7
275	27,489	100.0	651.0	3.4	262.5	*	262.5	263.2	0.7
283	28,335	110.0	588.0	3.7	262.8	*	262.8	263.6	0.8
293	29,267	95.0	317.0	6.2	265.1	*	265.1	266.1	1.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Kenneth Creek (Basin 24, Stream 2)									
297	29,737	325.0	2993.0	0.3	277.9	*	277.9	278.6	0.7
306	30,579	123.0	562.0	2.1	277.9	*	277.9	278.6	0.7
320	31,981	80.0	347.0	3.8	281.4	*	281.4	281.9	0.5
335	33,505	65.0	217.0	7.5	285.4	*	285.4	286.3	0.9
337	33,703	33.0	190.0	5.9	286.3	*	286.3	287.3	1.0
344	34,398	95.0	375.0	3.7	287.7	*	287.7	288.4	0.7
346	34,568	65.0	215.0	6.8	289.1	*	289.1	289.7	0.6
350	34,965	85.0	330.0	5.2	290.0	*	290.0	290.9	0.9
351	35,117	70.0	230.0	5.5	291.6	*	291.6	291.8	0.2
358	35,850	110.0	249.0	7.5	292.7	*	292.7	293.6	0.9
362	36,230	70.0	291.0	4.9	295.1	*	295.1	296.1	1.0
364	36,391	70.0	204.0	6.9	296.0	*	296.0	296.8	0.8
366	36,643	60.0	168.0	9.0	297.0	*	297.0	297.6	0.6
369	36,880	58.0	276.0	4.3	300.5	*	300.5	300.5	0.0
376	37,552	109.0	606.0	2.0	305.2	*	305.2	305.3	0.1
380	37,955	70.0	353.0	2.8	305.4	*	305.4	305.6	0.2
382	38,179	60.0	251.0	3.8	305.5	*	305.5	305.7	0.2
396	39,583	65.0	149.0	7.1	314.3	*	314.3	314.8	0.5
409	40,927	65.0	117.0	9.0	326.1	*	326.1	326.3	0.2
416	41,612	50.0	112.0	7.3	335.3	*	335.3	335.5	0.2
419	41,944	60.0	328.0	2.6	346.5	*	346.5	346.5	0.0
425	42,536	27.0	76.0	8.0	352.6	*	352.6	352.6	0.0
428	42,840	53.0	274.0	2.6	360.8	*	360.8	360.8	0.0
440	44,003	85.0	229.0	4.7	364.5	*	364.5	365.5	1.0
444	44,350	60.0	148.0	3.7	365.8	*	365.8	366.7	0.9
452	45,213	55.0	100.0	4.5	371.7	*	371.7	372.2	0.5
454	45,421	29.0	179.0	1.8	377.2	*	377.2	377.2	0.0
458	45,849	40.0	70.0	7.5	377.4	*	377.4	377.6	0.2
Kit Creek									
092	9,224	250.0	622.0	11.0	243.1	*	243.1	243.5	0.4
107	10,668	501.0	1606.0	6.4	249.0	*	249.0	249.0	0.0
115	11,537	415.0	1597.0	6.2	250.5	*	250.5	251.2	0.7
122	12,205	288.0	2269.0	3.5	254.8	*	254.8	254.8	0.0
131	13,123	240.0	1308.0	6.5	255.1	*	255.1	255.7	0.6
140	13,969	57.0	681.0	7.7	257.8	*	257.8	258.8	1.0
143	14,306	138.0	1373.0	4.9	258.8	*	258.8	259.8	1.0
145	14,516	117.0	1457.0	4.0	261.7	*	261.7	262.5	0.8
149	14,931	280.0	2798.0	2.4	262.0	*	262.0	262.7	0.7
155	15,522	250.0	2246.0	2.5	262.0	*	262.0	262.9	0.9
163	16,315	80.0	1051.0	3.5	264.2	*	264.2	265.1	0.9
170	16,997	532.0	4116.0	0.7	266.8	*	266.8	266.8	0.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Kit Creek									
175	17,475	547.0	4956.0	0.6	266.8	*	266.8	266.8	0.0
188	18,767	380.0	3185.0	0.6	266.8	*	266.8	266.8	0.0
200	20,009	175.0	525.0	6.0	266.9	*	266.9	266.9	0.0
209	20,855	160.0	567.0	5.4	269.2	*	269.2	269.4	0.2
215	21,535	724.0	10930.0	0.2	287.4	*	287.4	287.4	0.0
226	22,557	350.0	5014.0	0.3	287.4	*	287.4	287.4	0.0
237	23,719	270.0	3288.0	0.5	287.4	*	287.4	287.4	0.0
245	24,475	58.0	664.0	2.2	287.9	*	287.9	287.9	0.0
246	24,607	55.0	640.0	2.5	287.9	*	287.9	287.9	0.0
253	25,256	89.0	851.0	2.0	288.9	*	288.9	288.9	0.0
256	25,602	110.0	872.0	2.0	289.7	*	289.7	289.7	0.0
266	26,618	100.0	337.0	7.3	291.5	*	291.5	291.7	0.2
Kit Creek Tributary 1 (Basin 29, Stream 11)									
010	972	513.0	716.0	2.7	266.8 ¹	*	258.9	259.1	0.2
015	1,549	415.0	3003.0	0.7	268.2	*	268.2	268.2	0.0
030	3,008	220.0	1322.0	1.8	268.2	*	268.2	268.2	0.0
043	4,261	310.0	3936.0	0.5	284.5	*	284.5	285.4	0.9
051	5,053	370.0	5282.0	0.4	284.5	*	284.5	285.5	1.0
059	5,900	310.0	2890.0	0.8	284.8	*	284.8	285.8	1.0
073	7,270	170.0	1332.0	1.8	284.9	*	284.9	285.9	1.0
Kit Creek Tributary 2 (Basin 29, Stream 8)									
010	969	115.0	514.0	7.4	262.0 ¹	*	258.6	259.6	1.0
024	2,374	175.0	662.0	6.4	263.2	*	263.2	264.0	0.8
036	3,554	125.0	556.0	6.8	265.7	*	265.7	266.4	0.7
042	4,169	171.0	690.0	5.9	267.9	*	267.9	268.1	0.2
055	5,526	49.0	380.0	6.3	273.5	*	273.5	274.5	1.0
062	6,160	55.0	311.0	6.8	274.8	*	274.8	275.8	1.0
Lake Johnson									
002	244	55.0	201.0	9.6	228.8	*	228.8	229.1	0.3
006	563	80.0	295.0	7.2	238.3	*	238.3	238.4	0.1
008	849	572.0	4316.0	0.3	239.4	*	239.4	239.4	0.0
015	1,503	440.0	3014.0	0.5	239.4	*	239.4	239.4	0.0
019	1,934	65.0	180.0	12.3	250.9	*	250.9	251.1	0.2
Lake Johnson Bypass									
002	194	22.0	33.0	8.9	233.4	*	233.4	233.4	0.0
004	395	40.0	156.0	1.9	239.3	*	239.3	239.4	0.1
Lakemont Tributary (Basin 18, Stream 22)									
001	72	71.0	286.0	6.1	253.9 ¹	*	252.2	253.2	1.0
012	1,166	46.0	132.0	10.8	268.4	*	268.4	268.4	0.0
020	1,969	53.0	320.0	4.5	288.3	*	288.3	289.2	0.9
031	3,118	30.0	168.0	6.5	313.2	*	313.2	313.9	0.7

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Lens Branch (Basin 20, Stream 22)									
023	2,265	140.0	330.0	3.8	311.8 ³	*	311.5	311.8	0.3
031	3,066	75.0	443.0	2.8	316.4	*	316.4	316.7	0.3
086	8,644	206.0	734.0	4.9	343.5 ²	*	336.8	336.8	0.0
097	9,707	90.0	1211.0	2.9	354.9	*	354.9	355.3	0.4
103	10,343	75.0	641.0	5.6	355.0	*	355.0	355.7	0.7
114	11,394	190.0	2451.0	0.8	362.8	*	362.8	363.7	0.9
125	12,501	180.0	1258.0	1.5	362.9	*	362.9	363.9	1.0
136	13,557	28.0	180.0	10.5	365.9	*	365.9	366.8	0.9
146	14,552	140.0	504.0	3.5	369.9	*	369.9	370.5	0.6
151	15,114	159.0	539.0	3.3	372.5	*	372.5	373.4	0.9
158	15,793	110.0	1188.0	1.5	383.8	*	383.8	384.8	1.0
Little Beaver Creek (Basin 27, Stream 1)									
060	5,989	560.0	2788.0	0.9	237.8 ¹	*	231.1	232.1	1.0
067	6,667	350.0	1511.0	1.6	237.8 ¹	*	232.0	232.9	0.9
074	7,386	325.0	1384.0	1.8	237.8 ¹	*	234.1	235.0	0.9
081	8,098	400.0	1960.0	1.3	237.8 ¹	*	235.6	236.6	1.0
086	8,594	450.0	1749.0	1.4	237.8 ¹	*	236.5	237.5	1.0
092	9,189	240.0	940.0	2.6	238.5	*	238.5	239.3	0.8
062	6,222	265.0	1113.0	9.2	243.0	*	243.0	243.7	0.7
066	6,604	160.0	1322.0	6.0	246.5	*	246.5	246.6	0.1
079	7,935	400.0	1546.0	7.3	247.4	*	247.4	248.3	0.9
090	8,962	360.0	1621.0	6.2	250.5	*	250.5	251.3	0.8
104	10,356	395.0	1440.0	3.5	253.5	*	253.5	254.0	0.5
117	11,698	250.0	1140.0	5.5	258.5	*	258.5	259.4	0.9
120	12,016	250.0	1559.0	4.1	260.4	*	260.4	261.1	0.7
134	13,378	200.0	860.0	8.1	263.0	*	263.0	263.6	0.6
148	14,759	205.0	869.0	8.6	267.3	*	267.3	268.3	1.0
162	16,152	160.0	568.0	8.3	272.1	*	272.1	272.7	0.6
174	17,446	105.0	610.0	6.0	277.5	*	277.5	278.4	0.9
176	17,630	100.0	698.0	3.9	279.3	*	279.3	280.3	1.0
187	18,736	110.0	418.0	9.2	283.7	*	283.7	284.4	0.7
Little Beaverdam Creek (Basin 2, Stream 2)									
118	11,824	113.0	477.0	5.9	297.1	*	297.1	297.8	0.7
126	12,566	130.0	401.0	5.1	297.5	*	297.5	298.5	1.0
133	13,263	100.0	272.0	6.4	301.9	*	301.9	302.6	0.7
138	13,828	38.0	126.0	11.0	307.4	*	307.4	307.4	0.0
146	14,607	45.0	180.0	8.6	317.8	*	317.8	318.3	0.5
154	15,376	75.0	395.0	4.3	323.3	*	323.3	324.2	0.9
Little Branch (Basin 26, Stream 3)									
013	1,320	300.0	1590.0	2.9	255.9	*	255.9	256.8	0.9
025	2,452	591.0	1836.0	2.5	256.4	*	256.4	257.3	0.9
034	3,426	590.0	999.0	4.5	258.0	*	258.0	258.2	0.2

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Little Branch (Basin 26, Stream 3)									
039	3,895	607.0	1563.0	2.9	259.3	*	259.3	259.7	0.4
045	4,509	905.0	1834.0	2.5	261.6	*	261.6	261.8	0.2
064	6,423	404.0	1704.0	2.7	264.9	*	264.9	265.7	0.8
072	7,185	414.0	2292.0	5.0	267.6	*	267.6	268.0	0.4
085	8,537	308.0	1039.0	3.2	268.3	*	268.3	269.0	0.7
101	10,077	139.0	533.0	4.5	274.4	*	274.4	275.3	0.9
114	11,356	104.0	390.0	7.1	279.6	*	279.6	280.5	0.9
127	12,657	32.0	247.0	8.3	285.4	*	285.4	286.0	0.6
141	14,092	92.0	391.0	6.7	291.8	*	291.8	292.4	0.6
151	15,102	139.0	358.0	3.7	297.6	*	297.6	297.9	0.3
156	15,584	39.0	157.0	8.4	300.5	*	300.5	300.5	0.0
160	15,946	32.0	163.0	8.1	302.7	*	302.7	303.2	0.5
165	16,487	94.0	442.0	3.0	306.3	*	306.3	307.1	0.8
169	16,865	39.0	160.0	4.5	306.9	*	306.9	307.6	0.7
174	17,434	32.0	127.0	5.7	311.2	*	311.2	312.1	0.9
Little Brier Creek (Basin 18, Stream 15)									
019	1,915	480.0	4161.0	0.8	322.2 ¹	*	313.1	314.1	1.0
031	3,100	670.0	2155.0	1.5	322.2 ¹	*	313.3	314.3	1.0
036	3,586	297.0	2745.0	1.9	322.2 ¹	*	313.3	314.3	1.0
048	4,848	208.0	1996.0	5.5	322.2 ¹	*	319.0	319.5	0.5
057	5,723	369.0	3779.0	3.0	322.2 ¹	*	319.4	320.1	0.7
069	6,948	490.0	4351.0	3.2	322.2 ¹	*	319.7	320.6	0.9
090	8,955	550.0	4019.0	3.3	322.8	*	322.8	323.6	0.8
101	10,067	297.0	1574.0	5.5	323.5	*	323.5	324.1	0.6
112	11,217	200.0	1057.0	7.7	325.6	*	325.6	326.5	0.9
125	12,495	189.0	1524.0	4.9	330.4	*	330.4	331.3	0.9
137	13,704	265.0	1924.0	4.1	331.5	*	331.5	332.5	1.0
148	14,772	218.0	1373.0	5.3	332.7	*	332.7	333.7	1.0
157	15,748	245.0	1464.0	5.6	334.3	*	334.3	335.3	1.0
167	16,716	165.0	914.0	7.7	336.6	*	336.6	337.3	0.7
179	17,931	125.0	1558.0	3.9	346.6	*	346.6	347.0	0.4
192	19,238	209.0	2032.0	3.4	347.1	*	347.1	348.1	1.0
200	20,021	193.0	1407.0	2.9	347.5	*	347.5	348.5	1.0
207	20,668	100.0	773.0	4.2	347.7	*	347.7	348.6	0.9
Little Brier Creek East (Basin 18, Stream 16)									
021	2,090	118.0	635.0	6.4	325.8	*	325.8	326.8	1.0
029	2,869	167.0	988.0	4.3	328.6	*	328.6	329.5	0.9
035	3,477	130.0	635.0	6.0	329.5	*	329.5	330.4	0.9
043	4,283	87.0	576.0	6.7	332.0	*	332.0	333.0	1.0
050	5,009	98.0	537.0	5.3	335.7	*	335.7	336.6	0.9
060	6,005	84.0	560.0	5.9	339.3	*	339.3	340.3	1.0
065	6,525	85.0	402.0	7.7	341.2	*	341.2	342.0	0.8

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Little Brier Creek East (Basin 18, Stream 16)									
074	7,427	56.0	303.0	12.3	345.8	*	345.8	346.6	0.8
082	8,187	94.0	801.0	6.3	356.8	*	356.8	357.0	0.2
087	8,731	108.0	762.0	5.6	358.1	*	358.1	358.7	0.6
095	9,516	150.0	499.0	8.7	361.9	*	361.9	361.9	0.0
103	10,346	82.0	486.0	5.5	367.7	*	367.7	368.7	1.0
110	11,035	61.0	369.0	10.1	371.6	*	371.6	372.5	0.9
120	12,015	41.0	275.0	11.0	377.6	*	377.6	378.5	0.9
126	12,600	36.0	292.0	10.0	383.7	*	383.7	384.7	1.0
Little Creek (Basin 11, Stream 2)									
030	3,048	450.0	1320.0	4.6	217.2	*	217.2	217.9	0.7
046	4,615	195.0	1863.0	2.5	228.4	*	228.4	228.7	0.3
060	5,966	295.0	1892.0	2.6	228.5	*	228.5	229.0	0.5
080	8,007	270.0	1108.0	4.8	229.7	*	229.7	230.4	0.7
099	9,886	250.0	1030.0	3.8	232.4	*	232.4	233.2	0.8
113	11,265	240.0	879.0	5.0	235.0	*	235.0	235.7	0.7
129	12,912	200.0	701.0	5.9	237.6	*	237.6	238.5	0.9
142	14,190	260.0	942.0	4.6	240.3	*	240.3	241.3	1.0
156	15,644	180.0	619.0	6.5	243.7	*	243.7	244.4	0.7
171	17,091	165.0	636.0	6.0	249.8	*	249.8	250.2	0.4
183	18,348	130.0	535.0	6.2	254.9	*	254.9	255.6	0.7
194	19,420	111.0	672.0	3.8	268.3	*	268.3	268.3	0.0
195	19,546	53.0	371.0	4.8	269.2 ²	*	266.3	266.6	0.3
201	20,096	110.0	613.0	4.2	269.2 ²	*	266.8	267.2	0.4
206	20,631	168.0	1550.0	1.8	272.8	*	272.8	273.8	1.0
219	21,853	160.0	484.0	3.5	273.2	*	273.2	274.2	1.0
223	22,299	100.0	367.0	2.9	275.0	*	275.0	275.7	0.7
227	22,651	124.0	414.0	3.6	275.6	*	275.6	276.4	0.8
230	23,004	127.0	608.0	2.3	280.1	*	280.1	280.5	0.4
237	23,741	90.0	172.0	9.2	281.3	*	281.3	281.4	0.1
Little River									
3451	345,141	670.0	7458.0	1.4	216.2	217.7	216.2	217.1	0.9
3461	346,136	630.0	6234.0	1.7	216.6	218.0	216.6	217.5	0.9
3470	346,975	410.0	4260.0	2.4	217.0	218.3	217.0	217.9	0.9
3480	347,953	330.0	3856.0	2.7	217.7	218.9	217.7	218.5	0.8
3483	348,268	210.0	2507.0	4.1	218.1	219.5	218.1	218.9	0.8
3489	348,904	450.0	6223.0	1.7	219.4	220.7	219.4	220.2	0.8
3516	351,645	660.0	7698.0	1.4	219.9	221.1	219.9	220.9	1.0
3522	352,180	420.0	4235.0	2.5	220.0	221.2	220.0	221.0	1.0
3527	352,708	300.0	3443.0	3.0	220.5	221.6	220.5	221.5	1.0
3534	353,443	545.0	7197.0	1.4	221.3	222.4	221.3	222.3	1.0
3539	353,928	555.0	7187.0	1.4	221.5	222.6	221.5	222.5	1.0
3544	354,443	880.0	11540.0	0.9	221.7	222.8	221.7	222.7	1.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Little River									
3552	355,210	890.0	10041.0	1.0	221.8	222.9	221.8	222.8	1.0
3562	356,218	350.0	4688.0	2.2	222.9	224.0	222.9	223.6	0.7
3568	356,800	280.0	3603.0	2.9	223.2	224.3	223.2	223.9	0.7
3573	357,317	245.0	3169.0	3.3	223.5	224.6	223.5	224.3	0.8
3575	357,494	220.0	3618.0	2.9	223.8	224.8	223.8	224.7	0.9
3579	357,854	250.0	4129.0	2.5	224.0	225.1	224.0	224.8	0.8
3583	358,310	265.0	4137.0	2.5	224.0	225.1	224.0	224.9	0.9
3588	358,803	200.0	2315.0	4.5	226.0	227.0	226.0	226.2	0.2
3596	359,551	600.0	7864.0	1.3	226.9	227.9	226.9	227.5	0.6
3604	360,403	700.0	7979.0	1.3	227.2	228.1	227.2	227.9	0.7
3607	360,683	645.0	7100.0	1.5	227.3	228.2	227.3	228.0	0.7
3616	361,554	490.0	6269.0	1.7	227.8	228.7	227.8	228.4	0.6
3620	361,990	415.0	5475.0	1.9	228.0	228.9	228.0	228.6	0.6
3622	362,215	380.0	4902.0	2.1	228.0	228.9	228.0	228.8	0.8
3627	362,701	380.0	4633.0	2.2	228.2	229.1	228.2	229.1	0.9
3632	363,195	360.0	4425.0	2.3	228.5	229.3	228.5	229.4	0.9
3641	364,135	590.0	7731.0	1.3	229.1	230.0	229.1	230.1	1.0
3646	364,567	830.0	10457.0	1.0	229.3	230.2	229.3	230.3	1.0
3650	365,041	950.0	12158.0	0.8	229.4	230.3	229.4	230.4	1.0
3659	365,854	990.0	11018.0	0.9	229.6	230.5	229.6	230.6	1.0
3665	366,524	325.0	3014.0	3.4	229.6	230.4	229.6	230.6	1.0
3668	366,844	320.0	3978.0	2.6	230.7	231.5	230.7	231.4	0.7
3672	367,214	240.0	2788.0	3.7	230.7	231.5	230.7	231.7	1.0
3677	367,746	235.0	2663.0	3.8	232.0	232.8	232.0	232.8	0.8
3686	368,640	670.0	8327.0	1.2	233.6	234.4	233.6	234.4	0.8
3692	369,242	680.0	8659.0	1.2	233.8	234.6	233.8	234.7	0.9
3698	369,753	530.0	5571.0	1.8	233.8	234.7	233.8	234.8	1.0
3703	370,260	465.0	5137.0	2.0	234.3	235.2	234.3	235.2	0.9
3709	370,911	570.0	7627.0	1.3	234.8	235.7	234.8	235.7	0.9
3714	371,356	470.0	5941.0	1.7	234.9	235.8	234.9	235.8	0.9
3720	372,041	360.0	2159.0	4.7	239.1	239.5	239.1	239.2	0.1
3726	372,586	390.0	2784.0	3.6	240.2	240.7	240.2	240.7	0.5
3732	373,200	310.0	2485.0	4.1	240.8	241.3	240.8	241.5	0.7
3742	374,178	370.0	3532.0	2.8	243.6	244.1	243.6	244.3	0.7
3754	375,403	460.0	5073.0	2.0	245.6	246.5	245.6	246.3	0.7
3762	376,220	730.0	7671.0	1.3	245.9	246.7	245.9	246.7	0.8
3768	376,750	810.0	8375.0	1.2	246.0	246.9	246.0	246.9	0.9
3772	377,157	780.0	7503.0	1.3	246.1	247.0	246.1	247.1	1.0
3778	377,834	500.0	5251.0	1.9	246.6	247.4	246.6	247.5	0.9
3782	378,226	465.0	4785.0	2.1	246.9	247.7	246.9	247.8	0.9
3787	378,675	480.0	4927.0	2.0	248.2	248.8	248.2	248.9	0.7

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Little River									
3790	379,021	500.0	5730.0	1.7	248.6	249.2	248.6	249.2	0.6
3796	379,615	650.0	6922.0	1.4	249.0	249.7	249.0	249.8	0.8
3800	379,968	680.0	7916.0	1.3	249.1	249.8	249.1	250.0	0.9
3806	380,552	455.0	5229.0	1.9	249.4	250.1	249.4	250.4	1.0
3809	380,859	400.0	4324.0	2.3	249.8	250.5	249.8	250.8	1.0
3813	381,279	410.0	4942.0	2.0	250.6	251.3	250.6	251.4	0.8
3820	382,035	450.0	5456.0	1.8	251.3	252.0	251.3	252.2	0.9
3826	382,620	455.0	5488.0	1.8	251.8	252.5	251.8	252.7	0.9
3832	383,158	420.0	5000.0	2.0	252.2	252.9	252.2	253.2	1.0
3836	383,633	490.0	7308.0	1.3	252.5	253.2	252.5	253.4	0.9
3840	383,954	550.0	6940.0	1.4	252.5	253.3	252.5	253.4	0.9
3847	384,678	615.0	6192.0	1.5	252.6	253.4	252.6	253.6	1.0
3854	385,374	750.0	10317.0	0.9	252.8	253.6	252.8	253.8	1.0
3858	385,817	700.0	9829.0	1.0	252.9	253.6	252.9	253.9	1.0
3864	386,350	540.0	7563.0	1.3	252.9	253.7	252.9	253.9	1.0
3868	386,845	520.0	6273.0	1.5	253.0	253.8	253.0	254.0	1.0
3873	387,340	940.0	11178.0	0.8	253.6	254.4	253.6	254.6	1.0
3878	387,772	1230.0	14744.0	0.6	253.6	254.4	253.6	254.6	1.0
3882	388,243	1490.0	17474.0	0.5	253.7	254.5	253.7	254.7	1.0
3886	388,636	1550.0	18587.0	0.5	253.7	254.5	253.7	254.7	1.0
3891	389,106	1425.0	17917.0	0.5	253.7	254.5	253.7	254.7	1.0
3895	389,547	1270.0	15212.0	0.6	253.8	254.6	253.8	254.8	1.0
3902	390,210	900.0	7930.0	1.2	253.8	254.6	253.8	254.8	1.0
3910	390,966	950.0	10152.0	0.9	253.9	254.7	253.9	254.9	1.0
3918	391,796	500.0	6107.0	1.5	254.0	254.8	254.0	255.0	1.0
3927	392,678	360.0	4324.0	2.2	254.1	254.9	254.1	255.1	1.0
3932	393,237	500.0	4406.0	2.1	254.3	255.1	254.3	255.3	1.0
3940	393,984	340.0	2335.0	4.0	254.8	255.5	254.8	255.6	0.8
3947	394,729	385.0	3445.0	2.7	255.8	256.4	255.8	256.5	0.7
3956	395,598	415.0	3776.0	2.5	256.2	256.8	256.2	257.0	0.8
3965	396,549	415.0	3290.0	2.8	256.6	257.3	256.6	257.6	1.0
3971	397,132	340.0	2582.0	3.6	257.1	257.6	257.1	258.0	0.9
3980	397,971	205.0	1868.0	4.9	259.0	259.9	259.0	259.6	0.6
3989	398,858	350.0	3330.0	2.7	260.8	261.6	260.8	261.5	0.7
3994	399,408	465.0	4901.0	1.9	261.4	262.1	261.4	262.1	0.7
4002	400,237	685.0	7385.0	1.2	261.7	262.5	261.7	262.5	0.8
4009	400,905	660.0	6934.0	1.3	261.8	262.6	261.8	262.8	1.0
4016	401,591	390.0	4308.0	2.1	262.1	262.9	262.1	263.1	1.0
4022	402,174	260.0	2783.0	3.3	262.6	263.4	262.6	263.5	0.9
4029	402,850	260.0	2890.0	3.1	263.6	264.3	263.6	264.4	0.8
4038	403,813	290.0	3154.0	2.9	264.7	265.4	264.7	265.5	0.8

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Little River									
4054	405,387	410.0	4583.0	2.0	265.9	266.7	265.9	266.9	1.0
4060	405,975	330.0	3883.0	2.3	266.2	267.0	266.2	267.2	1.0
4066	406,641	270.0	3462.0	2.6	266.4	267.2	266.4	267.4	1.0
4072	407,196	170.0	2079.0	4.2	266.4	267.2	266.4	267.4	1.0
4077	407,704	380.0	4815.0	1.8	266.8	267.6	266.8	267.8	1.0
4082	408,239	490.0	5985.0	1.3	266.9	267.7	266.9	267.8	0.9
4086	408,573	500.0	5975.0	1.3	266.9	267.7	266.9	267.8	0.9
4089	408,865	550.0	5842.0	1.4	266.9	267.7	266.9	267.8	0.9
4094	409,415	420.0	4333.0	1.8	266.9	267.7	266.9	267.9	1.0
4097	409,674	370.0	4807.0	1.7	267.0	267.8	267.0	268.0	1.0
4102	410,238	290.0	3261.0	2.4	267.0	267.8	267.0	268.0	1.0
4106	410,613	190.0	1501.0	5.3	267.0	267.5	267.0	267.7	0.7
4109	410,894	170.0	1160.0	6.8	267.0	267.4	267.0	267.5	0.5
4113	411,298	185.0	1419.0	5.6	269.6	270.0	269.6	269.6	0.0
4116	411,601	130.0	1168.0	6.8	270.4	270.9	270.4	270.5	0.1
4120	412,021	130.0	1307.0	6.1	271.9	272.5	271.9	272.2	0.3
4123	412,310	145.0	1436.0	5.5	272.5	273.1	272.5	272.9	0.4
4125	412,531	110.0	1402.0	5.7	273.4	273.9	273.4	273.6	0.2
4129	412,866	275.0	3249.0	2.4	276.7	277.0	276.7	276.7	0.0
4134	413,358	295.0	1021.0	7.8	282.7	283.0	282.7	282.7	0.0
4136	413,615	220.0	1903.0	4.2	285.6	286.0	285.6	286.3	0.7
4140	414,007	200.0	2037.0	3.9	286.5	286.9	286.5	287.5	1.0
4146	414,561	180.0	1319.0	6.0	288.1	288.5	288.1	288.8	0.7
4151	415,077	130.0	786.0	9.0	294.4	294.8	294.4	295.1	0.7
4154	415,427	150.0	1045.0	6.7	299.7	300.0	299.7	300.5	0.8
4158	415,752	160.0	1943.0	3.6	307.2	308.3	307.2	307.2	0.0
4163	416,250	240.0	3640.0	1.9	307.8	308.9	307.8	307.8	0.0
4166	416,629	320.0	3779.0	1.9	307.8	308.9	307.8	307.8	0.0
4169	416,860	250.0	2920.0	2.4	307.8	308.9	307.8	307.9	0.1
4173	417,261	170.0	1966.0	3.6	308.0	309.0	308.0	308.1	0.1
4175	417,480	135.0	1485.0	4.7	308.1	309.1	308.1	308.3	0.2
4178	417,836	140.0	1433.0	4.9	308.7	309.7	308.7	309.1	0.4
4181	418,128	140.0	1324.0	5.3	309.3	310.2	309.3	309.8	0.5
4186	418,587	135.0	1094.0	6.4	310.9	311.6	310.9	311.5	0.6
4191	419,108	150.0	1284.0	5.5	313.5	314.0	313.5	314.3	0.8
4196	419,603	140.0	1273.0	5.5	315.4	315.8	315.4	316.3	0.9
4199	419,939	180.0	1719.0	4.1	316.8	317.2	316.8	317.7	0.9
4204	420,419	180.0	1592.0	4.4	318.0	318.4	318.0	318.9	0.9
4209	420,950	125.0	1187.0	3.9	319.2	319.6	319.2	320.2	1.0
Lizard Lick Creek (Basin 10, Stream 23)									
013	1,273	140.0	340.0	5.9	222.6 ¹	*	216.7	217.4	0.7

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Lizard Lick Creek (Basin 10, Stream 23)									
023	2,267	220.0	646.0	3.5	222.6 ¹	*	221.7	222.4	0.7
031	3,122	135.0	389.0	6.1	226.4	*	226.4	226.4	0.0
035	3,475	58.0	531.0	4.2	232.8	*	232.8	233.0	0.2
047	4,669	125.0	403.0	6.6	233.4	*	233.4	234.3	0.9
058	5,775	120.0	579.0	3.7	240.7	*	240.7	240.9	0.2
071	7,071	70.0	184.0	9.5	245.5	*	245.5	246.5	1.0
075	7,485	110.0	1038.0	1.8	253.7	*	253.7	254.6	0.9
079	7,854	190.0	1324.0	1.7	253.7	*	253.7	254.6	0.9
085	8,513	85.0	216.0	11.2	254.0	*	254.0	254.8	0.8
089	8,918	385.0	1769.0	0.8	271.6	*	271.6	271.6	0.0
101	10,139	338.0	1315.0	1.0	271.7	*	271.7	271.7	0.0
110	11,037	85.0	285.0	6.5	275.5	*	275.5	275.5	0.0
Lower Barton Creek (Basin 17, Stream 1)									
067	6,669	641.0	2483.0	1.9	265.5 ¹	*	247.4	247.4	0.0
079	7,903	660.0	2796.0	1.7	265.5 ¹	*	247.9	247.9	0.0
096	9,604	142.0	519.0	8.7	265.5 ¹	*	249.1	249.1	0.0
104	10,354	89.0	399.0	13.9	265.5 ¹	*	255.0	255.1	0.1
111	11,134	195.0	1243.0	6.4	265.5 ¹	*	259.7	260.2	0.5
120	12,039	230.0	1288.0	7.4	265.5 ¹	*	261.2	262.1	0.9
137	13,684	188.0	927.0	10.1	265.5 ¹	*	264.8	265.5	0.7
148	14,818	135.0	1004.0	9.1	269.1	*	269.1	269.8	0.7
161	16,116	150.0	1097.0	7.4	271.8	*	271.8	272.6	0.8
167	16,676	187.0	1147.0	7.4	273.5	*	273.5	273.8	0.3
175	17,491	155.0	1176.0	8.0	275.0	*	275.0	275.2	0.2
184	18,382	193.0	1440.0	7.1	277.3	*	277.3	278.0	0.7
191	19,065	202.0	1495.0	6.6	278.5	*	278.5	279.5	1.0
197	19,745	110.0	936.0	9.4	280.1	*	280.1	280.8	0.7
209	20,902	370.0	2695.0	3.0	282.5	*	282.5	283.3	0.8
230	22,982	325.0	1494.0	6.1	285.3	*	285.3	286.1	0.8
236	23,558	172.0	1155.0	6.7	289.3	*	289.3	289.3	0.0
244	24,361	300.0	1531.0	5.9	290.5	*	290.5	291.0	0.5
255	25,503	295.0	1314.0	7.1	292.4	*	292.4	293.1	0.7
259	25,859	280.0	1185.0	6.1	293.2	*	293.2	294.2	1.0
266	26,606	135.0	557.0	11.0	295.3	*	295.3	296.2	0.9
272	27,178	120.0	668.0	7.5	299.2	*	299.2	300.2	1.0
277	27,690	245.0	1433.0	4.7	300.8	*	300.8	301.5	0.7
286	28,641	236.0	986.0	7.0	302.0	*	302.0	302.7	0.7
294	29,361	200.0	854.0	7.4	304.2	*	304.2	304.8	0.6
300	30,027	151.0	866.0	5.2	306.7	*	306.7	307.5	0.8
304	30,445	100.0	954.0	4.5	314.2	*	314.2	314.3	0.1
318	31,769	290.0	1769.0	3.2	314.7	*	314.7	315.1	0.4

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Lower Barton Creek (Basin 17, Stream 1)									
324	32,414	194.0	1836.0	2.6	320.5	*	320.5	320.5	0.0
335	33,484	260.0	1280.0	4.8	320.6	*	320.6	321.0	0.4
340	33,959	158.0	773.0	6.6	321.5	*	321.5	322.0	0.5
348	34,789	160.0	611.0	8.3	324.6	*	324.6	325.1	0.5
356	35,575	165.0	620.0	8.2	328.1	*	328.1	328.9	0.8
363	36,333	155.0	637.0	8.3	332.6	*	332.6	333.5	0.9
372	37,236	128.0	580.0	8.2	337.2	*	337.2	337.3	0.1
384	38,378	170.0	659.0	8.3	340.8	*	340.8	341.6	0.8
393	39,327	150.0	710.0	6.4	345.5	*	345.5	346.1	0.6
397	39,745	155.0	482.0	10.6	347.0	*	347.0	347.5	0.5
401	40,139	97.0	406.0	9.3	349.3	*	349.3	349.7	0.4
404	40,403	85.0	526.0	6.8	353.4	*	353.4	354.4	1.0
412	41,231	60.0	311.0	10.4	357.2	*	357.2	357.2	0.0
423	42,268	85.0	534.0	6.3	367.3	*	367.3	368.3	1.0
432	43,163	60.0	287.0	11.1	374.0	*	374.0	374.2	0.2
437	43,734	49.0	183.0	8.6	376.7	*	376.7	377.3	0.6
444	44,358	89.0	881.0	2.3	389.3	*	389.3	389.3	0.0
449	44,926	145.0	937.0	2.7	389.4	*	389.4	389.4	0.0
Lowery Creek (Basin 4, Stream 10)									
037	3,651	593.0	8086.0	0.3	265.5 ¹	*	255.5	255.5	0.0
046	4,646	420.0	2743.0	0.7	265.5 ¹	*	255.5	255.5	0.0
056	5,554	430.0	733.0	1.9	265.5 ¹	*	255.7	255.7	0.0
066	6,595	150.0	490.0	6.3	265.5 ¹	*	260.3	261.1	0.8
076	7,630	105.0	439.0	8.1	266.4	*	266.4	267.2	0.8
084	8,450	110.0	533.0	7.1	270.7	*	270.7	271.3	0.6
096	9,616	100.0	365.0	10.2	276.5	*	276.5	277.1	0.6
110	10,955	90.0	239.0	8.5	282.3	*	282.3	283.3	1.0
116	11,610	70.0	180.0	10.3	286.5	*	286.5	286.8	0.3
125	12,546	55.0	160.0	10.6	294.0	*	294.0	294.2	0.2
136	13,598	65.0	188.0	9.8	302.3	*	302.3	302.5	0.2
Lynn Road Tributary (Basin 18, Stream 32)									
003	348	311.0	1167.0	1.5	271.7 ¹	*	252.8	252.8	0.0
013	1,325	21.0	111.0	11.6	271.7 ¹	*	271.6	272.0	0.4
024	2,376	84.0	260.0	12.2	290.8	*	290.8	291.0	0.2
033	3,341	309.0	1634.0	2.4	310.1	*	310.1	310.1	0.0
040	3,987	75.0	213.0	11.6	315.2	*	315.2	315.2	0.0
046	4,575	35.0	198.0	9.4	321.6	*	321.6	322.2	0.6
Mahlers Creek (Basin 20, Stream 6)									
018	1,840	90.0	383.0	8.3	223.1	*	223.1	223.5	0.4
031	3,073	165.0	691.0	5.5	227.2	*	227.2	228.2	1.0
035	3,468	101.0	699.0	3.5	229.7	*	229.7	229.8	0.1
040	4,045	180.0	807.0	4.4	230.3	*	230.3	230.4	0.1

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Mahlers Creek (Basin 20, Stream 6)									
051	5,119	175.0	668.0	4.3	232.7	*	232.7	233.7	1.0
065	6,515	165.0	676.0	4.2	239.2	*	239.2	240.0	0.8
074	7,396	120.0	376.0	6.6	241.4	*	241.4	242.3	0.9
085	8,504	125.0	454.0	5.6	246.5	*	246.5	247.1	0.6
098	9,794	130.0	444.0	5.8	252.1	*	252.1	252.9	0.8
110	11,022	110.0	296.0	6.7	258.1	*	258.1	258.9	0.8
122	12,230	140.0	393.0	5.2	263.8	*	263.8	263.9	0.1
136	13,611	120.0	445.0	4.8	273.0	*	273.0	273.5	0.5
146	14,619	70.0	210.0	8.4	276.8	*	276.8	277.5	0.7
157	15,691	70.0	209.0	8.4	283.0	*	283.0	283.5	0.5
163	16,335	30.0	166.0	9.4	298.8	*	298.8	299.8	1.0
Mango Creek (Basin 15, Stream 11)									
007	701	190.0	1157.0	2.5	175.6 ¹	*	165.0	165.3	0.3
022	2,214	55.0	282.0	10.3	175.6 ¹	*	172.4	172.6	0.2
032	3,231	150.0	1483.0	2.0	176.2	*	176.2	176.6	0.4
043	4,250	170.0	1254.0	2.3	176.5	*	176.5	177.3	0.8
051	5,127	195.0	849.0	3.2	178.2	*	178.2	179.1	0.9
059	5,947	140.0	1280.0	2.1	185.8	*	185.8	186.1	0.3
065	6,451	140.0	1186.0	2.3	186.0	*	186.0	186.4	0.4
075	7,544	255.0	1448.0	1.9	186.3	*	186.3	187.2	0.9
083	8,327	140.0	576.0	4.2	188.2	*	188.2	188.9	0.7
090	9,010	185.0	812.0	3.0	190.6	*	190.6	191.5	0.9
098	9,844	280.0	1026.0	2.1	192.6	*	192.6	193.5	0.9
111	11,099	290.0	865.0	2.5	197.0	*	197.0	197.3	0.3
125	12,506	130.0	469.0	4.7	204.0	*	204.0	204.2	0.2
132	13,182	100.0	437.0	4.2	207.8	*	207.8	207.9	0.1
144	14,368	115.0	501.0	3.7	214.9	*	214.9	215.5	0.6
151	15,117	150.0	518.0	3.0	218.4	*	218.4	218.9	0.5
164	16,426	135.0	356.0	3.5	225.7	*	225.7	226.1	0.4
176	17,608	60.0	271.0	4.5	232.2	*	232.2	232.9	0.7
181	18,081	57.0	192.0	6.4	238.5	*	238.5	238.5	0.0
185	18,491	50.0	198.0	6.2	242.3	*	242.3	242.4	0.1
190	19,038	60.0	183.0	6.7	245.2	*	245.2	245.9	0.7
195	19,478	75.0	195.0	4.9	250.0	*	250.0	250.3	0.3
204	20,399	40.0	196.0	4.9	257.9	*	257.9	258.7	0.8
Marks Creek									
188	18,817	464.0	4076.0	2.3	175.5	*	175.5	176.3	0.8
204	20,437	150.0	1246.0	5.8	177.0	*	177.0	177.9	0.9
208	20,757	118.0	1163.0	4.8	178.0	*	178.0	179.0	1.0
215	21,537	235.0	2041.0	4.1	179.1	*	179.1	180.1	1.0
226	22,584	510.0	4103.0	1.7	179.4	*	179.4	180.4	1.0
239	23,910	200.0	1254.0	5.6	179.8	*	179.8	180.7	0.9

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Marks Creek									
243	24,294	159.0	1214.0	5.0	181.8	*	181.8	181.9	0.1
257	25,686	195.0	1323.0	4.1	182.8	*	182.8	183.7	0.9
270	27,030	145.0	912.0	7.2	185.8	*	185.8	186.2	0.4
283	28,311	210.0	1779.0	3.8	187.3	*	187.3	188.2	0.9
297	29,651	195.0	1509.0	4.6	188.1	*	188.1	189.1	1.0
306	30,573	115.0	830.0	7.2	189.5	*	189.5	190.3	0.8
309	30,914	128.0	1157.0	4.8	190.8	*	190.8	191.5	0.7
314	31,358	376.0	3787.0	0.9	197.4	*	197.4	197.4	0.0
328	32,791	1100.0	10923.0	0.3	197.4	*	197.4	197.4	0.0
339	33,945	266.0	2228.0	1.6	197.4	*	197.4	197.4	0.0
355	35,453	285.0	1099.0	3.8	198.0	*	198.0	198.0	0.0
365	36,521	455.0	1630.0	2.5	198.9	*	198.9	199.3	0.4
377	37,749	290.0	961.0	4.3	200.0	*	200.0	201.0	1.0
390	38,971	200.0	832.0	5.1	203.7	*	203.7	204.4	0.7
401	40,051	490.0	1892.0	2.6	205.1	*	205.1	206.0	0.9
414	41,448	285.0	1120.0	5.5	207.9	*	207.9	208.7	0.8
428	42,790	525.0	2193.0	2.3	210.2	*	210.2	210.6	0.4
436	43,597	585.0	2089.0	1.7	210.6	*	210.6	211.0	0.4
444	44,406	175.0	889.0	3.9	213.1	*	213.1	213.4	0.3
453	45,267	265.0	953.0	3.9	213.7	*	213.7	214.2	0.5
462	46,245	242.0	1106.0	4.7	217.4	*	217.4	217.6	0.2
467	46,726	110.0	655.0	6.6	219.2	*	219.2	219.6	0.4
475	47,533	126.0	578.0	6.0	221.6	*	221.6	221.7	0.1
486	48,604	300.0	1286.0	2.7	222.6	*	222.6	223.4	0.8
501	50,115	340.0	494.0	6.7	224.8	*	224.8	225.1	0.3
507	50,702	435.0	2039.0	0.7	229.1	*	229.1	229.3	0.2
521	52,136	217.0	468.0	7.1	231.3	*	231.3	232.2	0.9
525	52,525	233.0	765.0	4.0	234.7	*	234.7	235.6	0.9
537	53,676	300.0	648.0	2.7	238.9	*	238.9	239.0	0.1
549	54,881	400.0	616.0	2.3	243.3	*	243.3	243.3	0.0
559	55,920	180.0	508.0	4.9	249.8	*	249.8	250.8	1.0
567	56,687	150.0	1058.0	2.1	259.7	*	259.7	259.8	0.1
578	57,785	110.0	394.0	4.6	260.3	*	260.3	260.8	0.5
Marsh Creek (Basin 18, Stream 17)									
019	1,937	176.0	887.0	14.5	192.9 ¹	*	187.4	188.3	0.9
029	2,887	212.0	2525.0	4.5	198.1	*	198.1	199.0	0.9
041	4,116	195.0	2256.0	4.9	198.3	*	198.3	199.3	1.0
048	4,766	242.0	2128.0	5.6	199.3	*	199.3	200.2	0.9
058	5,814	416.0	4279.0	2.9	200.1	*	200.1	201.1	1.0
067	6,692	267.0	1941.0	5.9	200.7	*	200.7	201.6	0.9
072	7,186	240.0	1795.0	6.3	201.5	*	201.5	202.4	0.9

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Marsh Creek (Basin 18, Stream 17)									
080	8,025	301.0	2994.0	4.0	206.3	*	206.3	207.2	0.9
090	8,989	186.0	1308.0	9.3	207.3	*	207.3	208.2	0.9
102	10,232	262.0	1515.0	5.2	211.0	*	211.0	211.8	0.8
112	11,197	395.0	3539.0	3.4	214.8	*	214.8	215.7	0.9
123	12,281	363.0	2804.0	3.8	215.1	*	215.1	216.1	1.0
137	13,718	204.0	1028.0	9.2	217.7	*	217.7	218.5	0.8
148	14,836	172.0	826.0	7.3	221.8	*	221.8	222.7	0.9
154	15,392	175.0	1554.0	3.7	227.7	*	227.7	228.5	0.8
162	16,179	96.0	630.0	7.2	228.3	*	228.3	229.1	0.8
171	17,135	87.0	800.0	6.4	234.8	*	234.8	235.7	0.9
179	17,920	105.0	850.0	5.7	236.4	*	236.4	237.2	0.8
189	18,857	259.0	1313.0	5.1	238.1	*	238.1	238.6	0.5
199	19,877	131.0	563.0	6.7	241.0	*	241.0	241.9	0.9
205	20,468	63.0	404.0	7.3	244.2	*	244.2	245.1	0.9
209	20,914	70.0	300.0	9.2	245.9	*	245.9	246.9	1.0
223	22,263	120.0	762.0	4.8	254.8	*	254.8	255.6	0.8
234	23,399	34.0	208.0	7.2	257.5	*	257.5	258.2	0.7
240	24,044	391.0	2687.0	2.7	282.1	*	282.1	282.1	0.0
250	25,045	432.0	1845.0	5.5	282.5	*	282.5	282.5	0.0
259	25,888	180.0	1090.0	6.4	287.5	*	287.5	288.3	0.8
271	27,053	60.0	338.0	9.0	294.4	*	294.4	295.3	0.9
278	27,840	102.0	317.0	11.5	309.2	*	309.2	309.5	0.3
287	28,655	32.0	232.0	9.9	313.5	*	313.5	314.4	0.9
291	29,144	42.0	291.0	7.6	320.8	*	320.8	320.8	0.0
Medfield Tributary (Basin 18, Stream 39)									
010	1,018	35.0	457.0	3.9	337.7	*	337.7	338.4	0.7
019	1,902	25.0	199.0	7.5	338.9	*	338.9	339.8	0.9
028	2,832	35.0	181.0	10.1	345.9	*	345.9	346.0	0.1
037	3,708	62.0	265.0	9.5	355.8	*	355.8	356.6	0.8
048	4,772	75.0	640.0	4.3	368.1	*	368.1	369.0	0.9
058	5,774	60.0	301.0	7.8	373.4	*	373.4	374.1	0.7
067	6,690	31.0	185.0	9.9	381.2	*	381.2	381.7	0.5
Middle Creek									
1475	147,461	800.0	5743.0	3.0	213.3	*	213.3	214.2	0.9
1504	150,416	730.0	3927.0	5.6	214.8	*	214.8	215.6	0.8
1547	154,675	1650.0	8917.0	2.7	217.1	*	217.1	217.7	0.6
1577	157,732	470.0	2544.0	8.5	220.7	*	220.7	221.0	0.3
1590	159,017	237.0	2227.0	7.5	224.7	*	224.7	224.7	0.0
1606	160,575	570.0	4963.0	4.2	226.1	*	226.1	226.4	0.3
1629	162,933	600.0	4602.0	4.7	227.2	*	227.2	227.7	0.5
1645	164,474	460.0	3757.0	5.8	229.3	*	229.3	230.0	0.7
1665	166,464	700.0	5711.0	3.9	230.3	*	230.3	231.1	0.8

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Middle Creek									
1712	171,196	1725.0	12247.0	1.7	231.2	*	231.2	232.0	0.8
1742	174,231	835.0	4230.0	5.0	232.1	*	232.1	233.0	0.9
1759	175,906	680.0	4107.0	5.3	233.7	*	233.7	234.7	1.0
1768	176,801	225.0	1655.0	10.2	235.0	*	235.0	236.0	1.0
1790	179,038	395.0	3095.0	6.5	238.5	*	238.5	239.0	0.5
1802	180,207	614.0	5672.0	3.3	240.3	*	240.3	240.6	0.3
1814	181,355	265.0	3003.0	5.8	241.2	*	241.2	241.7	0.5
1827	182,701	900.0	9293.0	2.2	241.7	*	241.7	242.3	0.6
1840	184,040	725.0	6983.0	2.9	241.8	*	241.8	242.5	0.7
1854	185,427	730.0	6500.0	1.4	242.0	*	242.0	242.7	0.7
1881	188,137	850.0	4928.0	2.6	242.4	*	242.4	243.2	0.8
1917	191,717	500.0	2310.0	6.5	247.0	*	247.0	247.6	0.6
1943	194,344	380.0	2325.0	5.2	250.1	*	250.1	251.0	0.9
1963	196,278	450.0	1898.0	7.1	253.6	*	253.6	254.5	0.9
1971	197,055	136.0	1023.0	7.2	255.7	*	255.7	255.9	0.2
1975	197,473	393.0	2592.0	4.3	257.5	*	257.5	257.6	0.1
1986	198,557	325.0	1983.0	5.4	258.5	*	258.5	258.7	0.2
2001	200,136	500.0	3723.0	3.0	259.2	*	259.2	260.0	0.8
2013	201,266	485.0	2965.0	4.0	259.5	*	259.5	260.4	0.9
2025	202,517	669.0	4118.0	3.0	262.6	*	262.6	262.6	0.0
2063	206,322	680.0	2934.0	4.4	263.7	*	263.7	264.6	0.9
2077	207,728	665.0	2699.0	4.6	265.5	*	265.5	266.2	0.7
2105	210,534	581.0	2974.0	3.8	272.1	*	272.1	272.1	0.0
2132	213,207	630.0	2013.0	5.9	273.9	*	273.9	274.9	1.0
2165	216,460	750.0	2414.0	5.5	279.2	*	279.2	279.6	0.4
2195	219,493	950.0	2691.0	4.4	282.9	*	282.9	283.7	0.8
2219	221,917	440.0	1765.0	6.2	287.2	*	287.2	287.9	0.7
2235	223,546	440.0	2124.0	3.6	289.5	*	289.5	290.4	0.9
2267	226,732	365.0	1737.0	5.6	293.4	*	293.4	294.0	0.6
2288	228,810	625.0	2255.0	5.0	295.5	*	295.5	296.0	0.5
2308	230,800	490.0	1752.0	6.5	297.0	*	297.0	297.6	0.6
2318	231,767	200.0	1108.0	7.5	298.9	*	298.9	299.5	0.6
2332	233,175	135.0	1167.0	5.2	302.0	*	302.0	302.2	0.2
2334	233,437	127.0	1434.0	5.7	303.5	*	303.5	303.6	0.1
2336	233,575	620.0	3648.0	1.6	310.3 ²	*	309.5	309.6	0.1
2349	234,918	1515.0	11704.0	0.5	310.3 ²	*	309.6	309.6	0.0
2359	235,862	1005.0	7324.0	0.5	310.3 ²	*	309.6	309.7	0.1
2373	237,267	440.0	1557.0	3.8	310.3	*	310.3	310.4	0.1
2384	238,401	610.0	1464.0	5.8	312.6	*	312.6	313.0	0.4
2399	239,915	436.0	1402.0	6.0	314.8	*	314.8	315.4	0.6
2408	240,841	370.0	1479.0	5.1	317.0	*	317.0	317.5	0.5

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Middle Creek									
2419	241,886	300.0	1100.0	7.3	320.6	*	320.6	321.1	0.5
2426	242,574	280.0	1415.0	5.6	322.5	*	322.5	323.1	0.6
2439	243,919	240.0	1208.0	6.0	324.4	*	324.4	325.2	0.8
2458	245,795	340.0	1425.0	5.0	328.0	*	328.0	328.8	0.8
2470	247,034	330.0	1371.0	5.3	330.6	*	330.6	331.2	0.6
2483	248,313	350.0	1388.0	4.9	333.0	*	333.0	333.9	0.9
2498	249,755	270.0	1079.0	6.6	336.2	*	336.2	337.1	0.9
2512	251,242	255.0	1052.0	4.6	338.9	*	338.9	339.8	0.9
2529	252,871	240.0	1188.0	5.5	343.2	*	343.2	344.0	0.8
2542	254,214	270.0	1192.0	5.9	346.5	*	346.5	347.5	1.0
2550	254,968	170.0	887.0	6.9	348.7	*	348.7	349.5	0.8
2556	255,563	160.0	1485.0	2.1	354.5	355.0	354.5	355.3	0.8
2568	256,766	440.0	3005.0	1.0	354.8	355.4	354.8	355.8	1.0
2583	258,293	280.0	1270.0	2.0	355.7	356.4	355.7	356.6	0.9
2600	260,011	280.0	1175.0	2.2	358.2	358.7	358.2	358.8	0.6
2616	261,576	260.0	1087.0	2.4	361.0	361.6	361.0	361.5	0.5
2628	262,831	275.0	1050.0	2.5	364.8	366.9	364.8	365.0	0.2
2646	264,557	205.0	795.0	3.0	366.6	367.6	366.6	367.6	1.0
2662	266,240	200.0	930.0	2.2	370.0	370.5	370.0	370.9	0.9
2676	267,602	220.0	815.0	2.5	373.1	373.5	373.1	374.1	1.0
2690	268,971	200.0	753.0	2.8	376.4	376.7	376.4	377.3	0.9
Millbrook Tributary to Marsh Creek (Basin 18, Stream 19)									
011	1,064	53.0	233.0	6.5	238.9	239.8	238.9	239.6	0.7
014	1,419	280.0	1938.0	0.8	251.5	252.1	251.5	251.5	0.0
021	2,082	138.0	1071.0	1.4	251.5	252.2	251.5	251.5	0.0
024	2,429	170.0	981.0	1.5	255.6	256.3	255.6	255.6	0.0
028	2,836	110.0	592.0	2.4	255.7	256.5	255.7	255.7	0.0
033	3,303	28.0	191.0	7.6	262.4	264.1	262.4	262.7	0.3
039	3,861	438.0	4272.0	0.3	274.9	275.3	274.9	274.9	0.0
045	4,546	281.0	1805.0	0.8	274.9	275.3	274.9	274.9	0.0
054	5,385	58.0	190.0	6.9	275.4	276.2	275.4	275.4	0.0
061	6,068	28.0	185.0	7.0	280.3	281.3	280.3	281.3	1.0
Mills Branch (Basin 22, Stream 5)									
008	787	230.0	659.0	6.9	249.4	*	249.4	250.3	0.9
020	2,029	188.0	695.0	5.6	256.9	*	256.9	257.5	0.6
034	3,380	115.0	1280.0	3.3	270.6	*	270.6	271.3	0.7
047	4,664	200.0	1363.0	2.5	270.9	*	270.9	271.7	0.8
055	5,546	140.0	569.0	6.1	271.6	*	271.6	272.5	0.9
064	6,352	119.0	350.0	8.3	289.4 ²	*	276.5	276.5	0.0
072	7,201	135.0	333.0	8.5	289.4 ²	*	283.3	283.4	0.1
081	8,121	90.0	415.0	6.0	291.0	*	291.0	291.9	0.9
086	8,553	65.0	504.0	3.8	294.4	*	294.4	295.2	0.8

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Mills Branch (Basin 22, Stream 5)									
092	9,150	130.0	508.0	6.0	297.2	*	297.2	297.8	0.6
099	9,934	90.0	326.0	9.0	303.4	*	303.4	304.4	1.0
Mine Creek (Basin 18, Stream 31)									
003	265	35.0	305.0	7.9	222.7 ¹	*	216.4	217.3	0.9
012	1,185	31.0	299.0	8.0	222.7 ¹	*	218.9	219.6	0.7
024	2,394	58.0	405.0	2.9	222.7 ¹	*	221.8	222.6	0.8
033	3,294	92.0	544.0	2.5	222.7 ¹	*	222.2	223.2	1.0
044	4,416	67.0	373.0	4.1	223.1	*	223.1	224.0	0.9
054	5,353	35.0	231.0	8.8	226.7	*	226.7	227.5	0.8
062	6,226	54.0	384.0	4.6	229.8	*	229.8	230.8	1.0
079	7,904	44.0	352.0	2.8	234.6	*	234.6	235.3	0.7
089	8,861	30.0	84.0	2.9	237.3	*	237.3	237.5	0.2
099	9,879	1305.0	31220.0	0.1	271.7	*	271.7	271.7	0.0
111	11,099	749.0	12803.0	0.2	271.7	*	271.7	271.7	0.0
121	12,080	747.0	12801.0	0.4	271.7	*	271.7	271.7	0.0
136	13,604	915.0	12613.0	0.5	271.7	*	271.7	271.7	0.0
145	14,463	129.0	1464.0	11.2	272.2	*	272.2	272.2	0.0
153	15,253	200.0	3448.0	4.9	277.8	*	277.8	277.9	0.1
163	16,319	210.0	2848.0	4.6	277.9	*	277.9	278.2	0.3
171	17,140	210.0	2468.0	6.9	279.3	*	279.3	279.3	0.0
175	17,488	250.0	2991.0	6.7	279.4	*	279.4	279.7	0.3
Mingo Creek (Basin 12, Stream 2)									
002	249	56.0	124.0	9.2	208.7	*	208.7	208.7	0.0
006	553	23.0	88.0	10.6	218.7	219.2	218.7	218.8	0.1
009	859	17.0	79.0	11.8	231.3	231.9	231.3	231.3	0.0
012	1,229	27.0	98.0	9.6	246.1	246.5	246.1	246.1	0.0
015	1,474	20.0	94.0	9.9	249.7	250.3	249.7	249.7	0.0
017	1,710	20.0	146.0	6.4	252.2	253.0	252.2	252.3	0.1
020	2,006	18.0	144.0	6.5	253.0	253.8	253.0	253.2	0.2
023	2,267	20.0	163.0	5.7	253.8	254.7	253.8	254.1	0.3
025	2,501	20.0	188.0	4.9	254.2	255.1	254.2	254.7	0.5
027	2,725	20.0	182.0	5.1	254.5	255.4	254.5	255.1	0.6
030	3,013	20.0	181.0	5.1	255.0	255.9	255.0	255.5	0.5
033	3,337	20.0	182.0	5.1	255.7	256.6	255.7	256.1	0.4
036	3,649	23.0	226.0	4.1	256.1	257.0	256.1	256.6	0.5
040	3,984	20.0	202.0	4.6	256.4	257.4	256.4	257.0	0.6
043	4,318	20.0	186.0	5.0	256.8	257.7	256.8	257.4	0.6
046	4,616	20.0	183.0	5.1	257.3	258.2	257.3	257.9	0.6
049	4,907	31.0	247.0	3.8	258.6	259.5	258.6	259.4	0.8
053	5,275	371.0	2009.0	0.5	258.9	259.8	258.9	259.6	0.7
058	5,773	156.0	841.0	1.2	258.9	259.8	258.9	259.7	0.8
062	6,229	110.0	277.0	3.5	258.9	259.8	258.9	259.7	0.8

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Mingo Creek (Basin 12, Stream 2)									
064	6,425	90.0	232.0	4.2	260.6	260.7	260.6	260.8	0.2
067	6,675	105.0	271.0	3.1	261.9	262.2	261.9	262.6	0.7
070	6,979	100.0	243.0	3.4	263.8	264.2	263.8	263.9	0.1
072	7,193	140.0	269.0	3.1	264.9	265.3	264.9	265.0	0.1
075	7,515	137.0	826.0	1.0	272.3	272.4	272.3	272.4	0.1
078	7,814	42.0	201.0	4.2	272.3	272.3	272.3	272.4	0.1
Moccasin Creek									
910	91,019	765.0	10344.0	0.7	219.4	*	219.4	220.3	0.9
916	91,628	825.0	10848.0	0.7	219.4	*	219.4	220.4	1.0
922	92,195	825.0	10006.0	0.8	219.5	*	219.5	220.5	1.0
929	92,927	895.0	10659.0	0.7	219.6	*	219.6	220.6	1.0
935	93,527	920.0	10307.0	0.7	219.7	*	219.7	220.7	1.0
943	94,329	723.0	7579.0	1.0	219.9	*	219.9	220.9	1.0
948	94,837	642.0	6402.0	1.1	220.1	*	220.1	221.0	0.9
955	95,464	646.0	6465.0	1.1	220.3	*	220.3	221.3	1.0
960	95,987	673.0	6081.0	1.2	220.6	*	220.6	221.6	1.0
966	96,591	565.0	5022.0	1.4	221.0	*	221.0	221.9	0.9
972	97,239	850.0	7590.0	1.0	221.4	*	221.4	222.4	1.0
994	99,443	500.0	5228.0	1.4	224.4	*	224.4	225.1	0.7
1002	100,153	675.0	6608.0	1.1	224.6	*	224.6	225.4	0.8
1006	100,646	650.0	6481.0	1.1	224.8	*	224.8	225.6	0.8
1013	101,291	600.0	5560.0	1.3	225.0	*	225.0	225.9	0.9
1018	101,807	700.0	6357.0	1.1	225.3	*	225.3	226.2	0.9
1024	102,387	767.0	6309.0	1.1	225.6	*	225.6	226.6	1.0
1029	102,913	675.0	5232.0	1.2	225.9	*	225.9	226.9	1.0
1037	103,680	750.0	5426.0	1.1	226.4	*	226.4	227.4	1.0
1043	104,282	490.0	3810.0	1.6	227.0	*	227.0	227.9	0.9
1048	104,823	575.0	4419.0	1.4	227.6	*	227.6	228.6	1.0
1055	105,519	415.0	3110.0	2.0	228.3	*	228.3	229.3	1.0
1110	111,041	385.0	5111.0	1.0	240.3	*	240.3	240.4	0.1
1122	112,174	690.0	7714.0	0.6	240.4	*	240.4	240.4	0.0
1133	113,253	440.0	4138.0	1.2	240.4	*	240.4	240.4	0.0
1137	113,726	260.0	2508.0	1.9	240.4	*	240.4	240.5	0.1
1143	114,253	270.0	2576.0	1.9	240.6	*	240.6	240.8	0.2
1148	114,798	350.0	3140.0	1.5	240.8	*	240.8	241.3	0.5
1153	115,260	300.0	2617.0	1.9	241.0	*	241.0	241.6	0.6
1157	115,658	250.0	2082.0	2.3	241.1	*	241.1	241.9	0.8
1161	116,103	150.0	1698.0	2.9	242.8	*	242.8	243.5	0.7
1168	116,771	325.0	2800.0	1.7	243.3	*	243.3	244.2	0.9
1174	117,432	625.0	5296.0	0.9	243.6	*	243.6	244.6	1.0
1181	118,089	500.0	4219.0	1.1	243.8	*	243.8	244.8	1.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Moccasin Creek									
1187	118,650	425.0	3575.0	1.2	244.1	*	244.1	245.0	0.9
1193	119,291	550.0	4468.0	1.0	244.4	*	244.4	245.4	1.0
1199	119,927	445.0	3187.0	1.4	244.7	*	244.7	245.7	1.0
1205	120,527	225.0	1741.0	2.6	245.3	*	245.3	246.3	1.0
1211	121,069	340.0	2416.0	1.8	246.2	*	246.2	247.1	0.9
1217	121,737	535.0	3905.0	1.1	246.9	*	246.9	247.8	0.9
1221	122,144	625.0	4056.0	1.1	247.1	*	247.1	248.1	1.0
1226	122,598	325.0	2151.0	2.0	247.5	*	247.5	248.4	0.9
1234	123,368	415.0	2824.0	1.5	248.7	*	248.7	249.7	1.0
1240	124,014	556.0	3785.0	1.1	249.2	*	249.2	250.2	1.0
1255	125,458	570.0	3876.0	1.0	251.7	*	251.7	252.7	1.0
1260	126,046	490.0	2890.0	1.3	252.2	*	252.2	253.2	1.0
1265	126,527	575.0	2573.0	1.5	253.0	*	253.0	254.0	1.0
1271	127,143	375.0	1779.0	2.1	254.7	*	254.7	255.7	1.0
1277	127,746	295.0	1751.0	2.2	256.9	*	256.9	257.7	0.8
1285	128,450	300.0	1997.0	1.7	258.3	*	258.3	259.3	1.0
1289	128,934	315.0	2126.0	1.6	259.0	*	259.0	260.0	1.0
1295	129,461	125.0	851.0	4.1	260.1	*	260.1	260.9	0.8
1301	130,072	125.0	1127.0	3.1	263.3	*	263.3	264.2	0.9
1308	130,822	88.0	835.0	4.2	265.5	*	265.5	266.5	1.0
1315	131,544	225.0	2383.0	1.5	269.0	*	269.0	270.0	1.0
1321	132,106	320.0	3004.0	0.8	269.3	*	269.3	270.3	1.0
1325	132,466	310.0	2885.0	0.8	269.4	*	269.4	270.4	1.0
1329	132,897	215.0	1909.0	1.2	269.6	*	269.6	270.6	1.0
1334	133,387	276.0	2375.0	1.0	269.9	*	269.9	270.9	1.0
1339	133,904	100.0	799.0	3.0	270.3	*	270.3	271.2	0.9
1343	134,327	205.0	1637.0	1.5	271.3	*	271.3	272.3	1.0
1348	134,820	290.0	2319.0	1.0	273.9	*	273.9	274.8	0.9
1353	135,324	350.0	2605.0	0.9	274.1	*	274.1	275.0	0.9
1359	135,928	210.0	1410.0	1.7	274.5	*	274.5	275.4	0.9
1363	136,337	190.0	780.0	2.4	275.5	*	275.5	276.3	0.8
1369	136,883	385.0	1913.0	1.0	276.7	*	276.7	277.6	0.9
1374	137,434	400.0	1945.0	1.0	277.1	*	277.1	278.1	1.0
1380	137,953	175.0	849.0	2.2	277.9	*	277.9	278.9	1.0
1386	138,603	225.0	889.0	1.7	280.2	*	280.2	281.2	1.0
1392	139,229	45.0	212.0	7.2	284.3	*	284.3	284.6	0.3
1395	139,513	140.0	1061.0	1.4	295.2	*	295.2	296.2	1.0
1401	140,119	520.0	3574.0	0.4	295.6	*	295.6	296.4	0.8
1405	140,546	165.0	607.0	2.5	295.7	*	295.7	296.5	0.8
1410	141,032	170.0	787.0	1.9	298.5	*	298.5	299.4	0.9
1414	141,401	205.0	837.0	1.8	299.9	*	299.9	300.9	1.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Moccasin Creek									
1417	141,695	95.0	406.0	3.7	302.2	*	302.2	303.0	0.8
1421	142,086	225.0	1216.0	1.3	304.0	*	304.0	305.0	1.0
1425	142,507	140.0	716.0	2.1	305.1	*	305.1	306.1	1.0
1429	142,883	200.0	807.0	1.4	306.6	*	306.6	307.6	1.0
Morris Branch									
037	3,707	490.0	8700.0	0.2	266.8	*	266.8	267.0	0.2
041	4,134	425.0	7132.0	0.2	266.8	*	266.8	267.0	0.2
050	4,994	365.0	5979.0	0.3	266.8	*	266.8	267.0	0.2
056	5,623	345.0	5881.0	0.3	266.8	*	266.8	267.0	0.2
061	6,118	300.0	4653.0	0.4	269.6	*	269.6	269.6	0.0
067	6,659	130.0	1661.0	1.0	269.6	*	269.6	269.6	0.0
071	7,104	75.0	639.0	2.6	269.6	*	269.6	269.6	0.0
077	7,661	60.0	544.0	3.0	269.8	270.3	269.8	269.8	0.0
085	8,471	37.0	278.0	4.4	272.5	274.1	272.5	272.6	0.1
089	8,941	24.0	172.0	7.2	274.2	274.8	274.2	274.6	0.4
100	10,031	32.0	172.0	7.1	280.6	283.0	280.6	281.2	0.6
106	10,576	65.0	379.0	3.3	284.8	285.8	284.8	285.0	0.2
112	11,154	52.0	305.0	4.0	289.3	292.6	289.3	289.5	0.2
117	11,678	45.0	300.0	4.1	291.8	293.2	291.8	292.0	0.2
127	12,676	30.0	132.0	6.8	298.4	299.2	298.4	298.4	0.0
131	13,133	37.0	166.0	5.4	302.0	302.4	302.0	302.6	0.6
137	13,686	40.0	202.0	4.4	304.5	*	304.5	305.5	1.0
143	14,280	30.0	126.0	7.1	308.8	*	308.8	309.4	0.6
147	14,714	55.0	203.0	4.4	312.7	*	312.7	313.3	0.6
152	15,150	40.0	169.0	5.3	314.9	*	314.9	315.9	1.0
155	15,550	25.0	153.0	5.8	317.4	*	317.4	317.7	0.3
159	15,862	22.0	86.0	10.4	319.1	*	319.1	319.1	0.0
161	16,107	41.0	115.0	7.8	322.9	*	322.9	322.9	0.0
168	16,822	30.0	184.0	4.9	332.3	*	332.3	333.3	1.0
173	17,309	25.0	72.0	3.9	335.8	*	335.8	336.5	0.7
Morrisville Tributary (Basin 18, Stream 26)									
011	1,093	80.0	647.0	2.1	292.9	*	292.9	293.6	0.7
020	2,021	95.0	735.0	2.8	299.2	*	299.2	299.8	0.6
029	2,939	200.0	1592.0	1.3	303.5	*	303.5	304.4	0.9
041	4,139	90.0	329.0	5.3	305.0	*	305.0	305.5	0.5
Mud Branch (Basin 4, Stream 15)									
003	332	50.0	276.0	6.8	265.5 ¹	*	262.9	263.8	0.9
010	1,029	45.0	222.0	8.7	268.4	*	268.4	269.4	1.0
020	2,006	40.0	176.0	10.2	277.1	*	277.1	277.8	0.7
029	2,942	45.0	201.0	10.6	286.0	*	286.0	286.1	0.1
038	3,785	46.0	247.0	8.8	292.9	*	292.9	293.8	0.9
049	4,866	70.0	292.0	8.4	303.0	*	303.0	303.7	0.7

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Mud Branch (Basin 4, Stream 15)									
057	5,746	100.0	293.0	9.2	308.9	*	308.9	309.6	0.7
066	6,639	80.0	270.0	7.2	315.1	*	315.1	315.6	0.5
070	6,983	345.0	3370.0	0.4	339.7	*	339.7	339.9	0.2
078	7,829	342.0	3076.0	0.4	339.7	*	339.7	339.9	0.2
083	8,289	597.0	5929.0	0.2	352.3	*	352.3	352.3	0.0
093	9,334	160.0	1081.0	1.1	352.3	*	352.3	352.3	0.0
100	10,035	95.0	206.0	11.0	356.0	*	356.0	356.4	0.4
164	16,442	87.0	558.0	0.9	447.6	*	447.6	447.6	0.0
169	16,926	34.0	101.0	7.1	452.0	*	452.0	452.1	0.1
Neil Branch (Basin 24, Stream 8)									
002	159	50.0	272.0	8.1	318.7	*	318.7	319.5	0.8
008	771	55.0	189.0	12.5	322.8	*	322.8	322.9	0.1
014	1,403	55.0	256.0	9.3	327.7	*	327.7	328.6	0.9
021	2,114	55.0	191.0	12.2	333.5	*	333.5	333.5	0.0
023	2,283	55.0	402.0	5.4	338.2	*	338.2	339.1	0.9
027	2,692	55.0	388.0	5.7	338.9	*	338.9	339.6	0.7
029	2,931	103.0	571.0	5.3	343.3	*	343.3	344.2	0.9
032	3,228	100.0	664.0	3.2	343.7	*	343.7	344.6	0.9
034	3,431	116.0	582.0	3.3	343.8	*	343.8	344.7	0.9
Neil Creek (Basin 24, Stream 7)									
004	437	75.0	406.0	7.9	309.1	*	309.1	309.5	0.4
009	859	62.0	379.0	8.3	311.2	*	311.2	312.0	0.8
012	1,176	68.0	534.0	6.0	312.7	*	312.7	313.7	1.0
016	1,618	105.0	709.0	5.4	314.5	*	314.5	315.4	0.9
025	2,469	50.0	386.0	7.9	317.1	*	317.1	318.1	1.0
028	2,831	40.0	222.0	7.4	318.4	*	318.4	319.2	0.8
031	3,078	50.0	336.0	4.9	323.3	*	323.3	323.9	0.6
031	3,143	50.0	340.0	4.4	323.3	*	323.3	324.1	0.8
Neuse River									
11016	1,101,589	686.0	9463.0	2.1	160.9	*	160.9	161.6	0.7
11072	1,107,199	1030.0	11292.0	1.7	162.6	*	162.6	163.3	0.7
11078	1,107,813	340.0	6046.0	3.3	162.7	*	162.7	163.4	0.7
11079	1,107,887	391.0	6418.0	3.0	162.9	*	162.9	163.6	0.7
11088	1,108,786	500.0	7333.0	2.7	163.3	*	163.3	163.9	0.6
11104	1,110,440	720.0	9448.0	2.1	163.5	*	163.5	164.3	0.8
11126	1,112,566	680.0	8045.0	2.4	163.9	*	163.9	164.8	0.9
11145	1,114,538	450.0	6034.0	3.2	164.4	*	164.4	165.3	0.9
11171	1,117,095	800.0	9067.0	2.2	165.5	*	165.5	166.4	0.9
11187	1,118,653	550.0	8267.0	2.3	165.8	*	165.8	166.7	0.9
11204	1,120,365	590.0	7852.0	2.5	166.2	*	166.2	167.2	1.0
11230	1,123,001	500.0	6502.0	3.0	166.8	*	166.8	167.8	1.0
11251	1,125,052	600.0	7851.0	2.5	167.5	*	167.5	168.5	1.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Neuse River									
11264	1,126,436	850.0	10503.0	1.8	167.9	*	167.9	168.9	1.0
11276	1,127,590	620.0	8549.0	2.2	168.1	*	168.1	169.0	0.9
11316	1,131,641	550.0	6835.0	2.8	169.7	*	169.7	170.2	0.5
11328	1,132,756	400.0	6194.0	3.1	169.9	*	169.9	170.5	0.6
11344	1,134,378	400.0	5815.0	3.3	170.4	*	170.4	171.1	0.7
11363	1,136,275	600.0	7762.0	2.4	171.1	*	171.1	171.9	0.8
11387	1,138,692	500.0	6511.0	2.9	171.5	*	171.5	172.5	1.0
11400	1,140,006	440.0	7014.0	2.7	171.9	*	171.9	172.9	1.0
11420	1,142,029	530.0	8463.0	2.2	172.6	*	172.6	173.5	0.9
11461	1,146,145	400.0	5827.0	3.0	174.4	*	174.4	174.7	0.3
11483	1,148,266	400.0	6078.0	2.9	175.0	*	175.0	175.4	0.4
11491	1,149,061	400.0	6325.0	2.8	175.2	*	175.2	175.7	0.5
11500	1,150,004	400.0	5874.0	2.4	175.4	*	175.4	175.9	0.5
11508	1,150,759	400.0	5531.0	2.5	175.5	*	175.5	176.1	0.6
11521	1,152,088	349.0	6167.0	2.2	175.8	*	175.8	176.5	0.7
11548	1,154,823	450.0	5886.0	2.4	176.4	*	176.4	177.2	0.8
11565	1,156,542	560.0	6971.0	2.0	176.8	*	176.8	177.7	0.9
11580	1,158,020	880.0	9765.0	1.4	177.0	*	177.0	178.0	1.0
11622	1,162,157	560.0	6822.0	2.0	178.4	*	178.4	178.8	0.4
11631	1,163,120	490.0	6415.0	2.1	179.2	*	179.2	180.2	1.0
11646	1,164,639	400.0	4318.0	3.2	179.8	*	179.8	180.7	0.9
11667	1,166,737	450.0	4746.0	2.9	180.6	*	180.6	181.5	0.9
11690	1,168,964	350.0	4065.0	3.4	181.4	*	181.4	182.3	0.9
11697	1,169,691	370.0	3524.0	3.8	181.7	*	181.7	182.7	1.0
11712	1,171,174	290.0	3202.0	4.2	182.7	*	182.7	183.7	1.0
11721	1,172,061	350.0	3739.0	3.6	183.6	*	183.6	184.4	0.8
11741	1,174,127	330.0	3919.0	3.5	184.9	*	184.9	185.8	0.9
11760	1,176,041	360.0	3821.0	3.5	185.9	*	185.9	186.9	1.0
11778	1,177,819	325.0	3652.0	3.7	186.9	*	186.9	187.8	0.9
11787	1,178,721	295.0	3613.0	3.7	187.3	*	187.3	188.3	1.0
11802	1,180,189	300.0	3937.0	3.4	188.1	*	188.1	188.9	0.8
11819	1,181,898	370.0	4609.0	2.9	188.6	*	188.6	189.6	1.0
11830	1,183,040	410.0	5300.0	2.5	189.2	*	189.2	190.1	0.9
11856	1,185,570	400.0	4947.0	2.7	190.2	*	190.2	191.1	0.9
11867	1,186,726	420.0	4902.0	2.7	191.0	*	191.0	191.6	0.6
11887	1,188,743	450.0	5344.0	2.4	191.3	*	191.3	192.3	1.0
11912	1,191,225	760.0	8407.0	1.5	192.0	*	192.0	192.9	0.9
11924	1,192,445	930.0	8787.0	1.5	192.2	*	192.2	193.1	0.9
11948	1,194,836	720.0	8029.0	1.6	192.9	*	192.9	193.8	0.9
11962	1,196,241	600.0	6905.0	1.9	193.1	*	193.1	194.0	0.9
11976	1,197,574	520.0	5997.0	2.1	193.4	*	193.4	194.3	0.9

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Neuse River									
11987	1,198,676	450.0	4997.0	2.5	193.7	*	193.7	194.6	0.9
12055	1,205,512	550.0	5727.0	2.2	196.4	*	196.4	196.9	0.5
12070	1,207,020	550.0	6789.0	1.8	196.8	*	196.8	197.4	0.6
12089	1,208,857	600.0	6369.0	2.0	197.2	*	197.2	197.8	0.6
12117	1,211,692	700.0	7941.0	1.6	197.7	*	197.7	198.4	0.7
12132	1,213,152	650.0	7305.0	1.7	197.9	*	197.9	198.7	0.8
12146	1,214,617	550.0	6324.0	2.0	198.2	*	198.2	199.0	0.8
12164	1,216,355	650.0	7490.0	1.6	198.6	*	198.6	199.4	0.8
12193	1,219,337	1245.0	11738.0	1.0	199.0	*	199.0	199.9	0.9
12215	1,221,470	1000.0	9059.0	1.3	199.2	*	199.2	200.1	0.9
12233	1,223,295	316.0	4732.0	2.5	199.6	*	199.6	200.5	0.9
12240	1,223,981	260.0	2730.0	4.3	199.7	*	199.7	200.6	0.9
12243	1,224,271	305.0	3994.0	2.9	200.8	*	200.8	201.2	0.4
12262	1,226,217	450.0	4249.0	2.7	201.4	*	201.4	201.8	0.4
12280	1,228,031	450.0	5025.0	2.3	201.8	*	201.8	202.4	0.6
12305	1,230,493	350.0	4528.0	2.6	202.3	*	202.3	203.0	0.7
12318	1,231,755	450.0	5256.0	2.2	202.6	*	202.6	203.4	0.8
12337	1,233,697	450.0	5219.0	2.1	203.1	*	203.1	203.8	0.7
12354	1,235,377	350.0	3761.0	3.0	203.4	*	203.4	204.2	0.8
12375	1,237,511	300.0	3793.0	2.9	204.4	*	204.4	205.2	0.8
12387	1,238,710	250.0	3213.0	3.5	204.7	*	204.7	205.6	0.9
12406	1,240,617	300.0	3603.0	3.1	205.6	*	205.6	206.5	0.9
12412	1,241,174	405.0	4916.0	2.3	206.3	*	206.3	206.8	0.5
12417	1,241,738	135.0	1625.0	6.8	211.0	*	211.0	211.1	0.1
New Hope Tributary to Marsh Creek (Basin 18, Stream 18)									
011	1,135	94.0	252.0	7.6	215.7	*	215.7	216.0	0.3
016	1,642	342.0	1858.0	1.1	219.5	*	219.5	219.5	0.0
021	2,131	247.0	729.0	2.8	219.5	*	219.5	219.5	0.0
030	3,026	89.0	327.0	6.2	227.1	*	227.1	227.2	0.1
037	3,713	75.0	363.0	5.6	228.8	*	228.8	228.8	0.0
042	4,214	75.0	325.0	6.2	231.7	*	231.7	232.3	0.6
004	4,644	29.0	151.0	13.0	238.6	*	238.6	238.6	0.0
051	5,076	245.0	1323.0	1.5	243.4	*	243.4	243.4	0.0
058	5,765	170.0	536.0	3.7	243.6	*	243.6	243.6	0.0
065	6,478	127.0	435.0	2.7	249.7	*	249.7	249.7	0.0
070	7,003	385.0	4311.0	0.3	266.2	*	266.2	266.2	0.0
079	7,893	256.0	1769.0	0.7	266.2	*	266.2	266.2	0.0
085	8,496	120.0	741.0	1.7	266.2	*	266.2	266.2	0.0
091	9,148	45.0	210.0	5.9	271.8	*	271.8	272.0	0.2
098	9,751	86.0	284.0	4.3	279.5	*	279.5	280.0	0.5
102	10,207	288.0	1827.0	0.8	291.1	*	291.1	291.1	0.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
New Hope Tributary to Marsh Creek (Basin 18, Stream 18)									
107	10,679	341.0	2474.0	0.6	294.7	*	294.7	294.7	0.0
New Light Creek									
112	11,172	912.0	3073.0	1.5	265.5 ¹	*	251.8	251.8	0.0
121	12,075	609.0	1911.0	2.2	265.5 ¹	*	252.2	252.2	0.0
129	12,891	135.0	483.0	11.8	265.5 ¹	*	254.3	254.4	0.1
135	13,486	267.0	2256.0	3.3	265.5 ¹	*	261.1	261.1	0.0
145	14,474	395.0	2807.0	2.8	265.5 ¹	*	261.4	261.8	0.4
152	15,233	551.0	3449.0	2.4	265.5 ¹	*	261.6	262.2	0.6
158	15,763	618.0	3232.0	2.8	265.5 ¹	*	261.8	262.3	0.5
170	16,990	450.0	1835.0	5.4	265.5 ¹	*	263.7	264.5	0.8
178	17,826	646.0	2215.0	4.9	265.5 ¹	*	265.0	265.7	0.7
186	18,605	790.0	2255.0	4.5	266.0	*	266.0	266.8	0.8
190	18,957	750.0	2824.0	3.5	269.0	*	269.0	269.4	0.4
200	19,976	400.0	1177.0	5.0	270.7	*	270.7	271.4	0.7
207	20,713	330.0	1023.0	6.0	272.8	*	272.8	273.2	0.4
216	21,622	330.0	1199.0	5.8	274.6	*	274.6	275.6	1.0
222	22,222	465.0	1917.0	4.5	276.1	*	276.1	277.0	0.9
Norris Branch									
007	681	162.0	551.0	6.2	240.1	*	240.1	240.7	0.6
016	1,592	92.0	407.0	7.6	244.8	*	244.8	245.8	1.0
028	2,849	113.0	524.0	6.6	251.9	*	251.9	252.7	0.8
041	4,068	100.0	499.0	6.9	256.3	*	256.3	257.1	0.8
055	5,506	73.0	355.0	7.0	262.0	*	262.0	262.6	0.6
069	6,944	91.0	448.0	6.3	267.7	*	267.7	268.0	0.3
085	8,520	285.0	1127.0	3.5	274.1	*	274.1	275.1	1.0
089	8,862	242.0	703.0	4.8	276.1	*	276.1	276.5	0.4
101	10,057	87.0	323.0	8.5	281.4	*	281.4	282.2	0.8
122	12,218	120.0	512.0	5.5	291.9	*	291.9	292.8	0.9
138	13,848	103.0	480.0	5.8	302.4	*	302.4	303.1	0.7
148	14,766	88.0	300.0	7.3	307.9	*	307.9	308.8	0.9
152	15,174	69.0	588.0	2.9	316.3	*	316.3	316.7	0.4
153	15,319	66.0	491.0	3.7	316.3	*	316.3	316.7	0.4
Panther Branch (Basin 22, Stream 2)									
001	72	75.0	483.0	8.5	234.7 ¹	*	234.6	235.2	0.6
009	869	100.0	741.0	6.0	236.9	*	236.9	237.7	0.8
020	2,016	200.0	966.0	5.2	238.1	*	238.1	238.9	0.8
030	3,010	175.0	596.0	9.0	241.2	*	241.2	241.7	0.5
038	3,821	175.0	905.0	5.6	244.4	*	244.4	245.3	0.9
045	4,513	145.0	661.0	7.4	246.5	*	246.5	247.4	0.9
056	5,553	172.0	766.0	5.4	250.5	*	250.5	251.3	0.8
063	6,264	100.0	656.0	5.1	256.1	*	256.1	256.5	0.4
070	7,032	230.0	461.0	8.4	256.7	*	256.7	257.3	0.6

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Panther Branch (Basin 22, Stream 2)									
081	8,144	120.0	516.0	7.1	259.8	*	259.8	260.6	0.8
092	9,197	165.0	566.0	7.2	264.8	*	264.8	265.5	0.7
102	10,236	120.0	408.0	9.0	269.1	*	269.1	269.7	0.6
115	11,451	145.0	476.0	8.3	274.7	*	274.7	275.6	0.9
126	12,635	135.0	403.0	9.6	280.8	*	280.8	281.6	0.8
135	13,521	125.0	978.0	3.7	292.1	*	292.1	292.7	0.6
146	14,641	135.0	353.0	9.7	293.8	*	293.8	294.0	0.2
156	15,566	135.0	405.0	5.0	298.9	*	298.9	299.8	0.9
165	16,480	165.0	388.0	5.8	303.6	*	303.6	304.5	0.9
174	17,396	134.0	331.0	6.7	308.2	*	308.2	308.9	0.7
183	18,296	65.0	187.0	11.6	314.2	*	314.2	315.0	0.8
Panther Creek									
126	12,614	142.0	806.0	2.9	245.5	*	245.5	246.3	0.8
130	13,042	55.0	310.0	2.9	246.2	*	246.2	247.1	0.9
133	13,311	75.0	302.0	3.0	247.0	*	247.0	247.8	0.8
142	14,199	90.0	279.0	3.2	248.8	*	248.8	249.3	0.5
151	15,072	90.0	491.0	1.8	251.4	*	251.4	251.7	0.3
178	17,825	282.0	1350.0	1.0	261.41	*	259.32	259.3	0.0
182	18,211	98.0	731.0	1.8	263.7	*	263.7	263.7	0.0
186	18,623	160.0	513.0	2.6	264.3	*	264.3	264.3	0.0
194	19,413	203.0	840.0	1.6	267.2	*	267.2	267.7	0.5
201	20,082	155.0	344.0	3.9	268.0	*	268.0	268.7	0.7
214	21,355	170.0	488.0	2.1	272.2	*	272.2	272.7	0.5
225	22,510	100.0	311.0	3.2	277.4	*	277.4	277.7	0.3
230	22,999	185.0	460.0	2.2	279.4	*	279.4	279.9	0.5
238	23,844	35.0	111.0	6.2	281.9	*	281.9	282.1	0.2
Perry Creek (Basin 15, Stream 26)									
003	320	150.0	1834.0	3.7	196.7 ¹	201.0	194.3	195.0	0.7
012	1,249	400.0	5265.0	1.3	196.7 ¹	201.0	195.3	196.1	0.8
025	2,451	405.0	4487.0	1.5	196.7 ¹	201.0	195.4	196.4	1.0
034	3,357	450.0	4759.0	1.4	197.0	201.0	197.0	197.7	0.7
041	4,124	370.0	3314.0	0.9	197.3	201.0	197.3	198.1	0.8
052	5,232	380.0	2526.0	1.1	197.6	201.0	197.6	198.3	0.7
063	6,286	215.0	1065.0	2.7	198.6	201.0	198.6	199.5	0.9
073	7,330	195.0	921.0	3.1	201.9	202.4	201.9	202.9	1.0
085	8,515	160.0	721.0	3.9	205.4	206.0	205.4	206.3	0.9
095	9,463	145.0	868.0	3.3	209.2	209.8	209.2	209.9	0.7
106	10,618	145.0	531.0	5.9	213.9	214.4	213.9	214.3	0.4
120	11,981	60.0	359.0	3.2	220.9	221.6	220.9	221.5	0.6
134	13,414	309.0	3271.0	0.6	247.1	248.8	247.1	247.1	0.0
148	14,776	400.0	3713.0	0.5	247.1	248.9	247.1	247.1	0.0
169	16,919	85.0	472.0	4.6	251.5	253.4	251.5	251.5	0.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Perry Creek (Basin 15, Stream 26)									
183	18,331	56.0	388.0	5.4	256.4	259.4	256.4	256.4	0.0
195	19,482	110.0	558.0	3.3	260.6	264.3	260.6	260.6	0.0
211	21,077	110.0	296.0	6.3	264.5	268.0	264.5	264.5	0.0
221	22,062	243.0	696.0	2.7	273.1	273.9	273.1	273.1	0.0
235	23,465	290.0	2818.0	0.5	295.3	296.7	295.3	295.3	0.0
243	24,338	169.0	542.0	2.8	295.4	296.9	295.4	295.4	0.0
255	25,476	93.0	213.0	6.6	308.6	309.5	308.6	308.6	0.0
267	26,699	93.0	217.0	6.5	323.1	323.7	323.1	323.1	0.0
274	27,435	157.0	892.0	1.6	333.6	334.0	333.6	334.5	0.9
284	28,380	591.0	5089.0	0.3	353.3	353.8	353.3	353.3	0.0
292	29,188	78.0	222.0	3.8	353.3	353.8	353.3	353.3	0.0
299	29,905	55.0	187.0	4.5	367.2	368.0	367.2	367.2	0.0
Perry Creek East Branch (Basin 15, Stream 27)									
007	674	84.0	409.0	7.5	197.5 ¹	*	196.2	197.1	0.9
015	1,479	99.0	367.0	7.6	201.8	*	201.8	202.8	1.0
024	2,426	290.0	1184.0	3.2	210.8	*	210.8	210.9	0.1
035	3,500	181.0	484.0	6.1	218.4	*	218.4	218.4	0.0
045	4,496	67.0	173.0	11.0	224.8	*	224.8	224.8	0.0
053	5,318	20.0	112.0	14.8	236.2	*	236.2	236.7	0.5
062	6,195	62.0	244.0	3.9	247.9	*	247.9	248.9	1.0
070	7,013	25.0	115.0	4.6	254.8	*	254.8	255.7	0.9
080	8,037	91.0	147.0	6.9	273.1	*	273.1	273.1	0.0
Pigeon House Branch (Basin 18, Stream 27)									
014	1,419	115.0	811.0	8.1	198.1	*	198.1	198.1	0.0
028	2,753	190.0	964.0	5.1	204.5	*	204.5	204.5	0.0
039	3,910	280.0	1495.0	3.1	208.0	*	208.0	208.0	0.0
047	4,679	255.0	1393.0	3.9	208.4	*	208.4	209.3	0.9
057	5,680	54.0	514.0	7.9	211.1	*	211.1	212.1	1.0
069	6,883	80.0	713.0	9.1	219.7	*	219.7	220.0	0.3
076	7,606	147.0	1630.0	3.9	226.5	*	226.5	227.4	0.9
085	8,507	182.0	1728.0	2.8	230.3	*	230.3	231.3	1.0
093	9,315	123.0	1058.0	5.8	230.7	*	230.7	231.6	0.9
101	10,148	50.0	722.0	7.6	235.3	*	235.3	235.5	0.2
115	11,522	33.0	461.0	10.5	239.8	*	239.8	240.4	0.6
126	12,586	115.0	1298.0	4.0	253.7	*	253.7	254.5	0.8
135	13,465	28.0	417.0	6.9	257.9	*	257.9	258.2	0.3
144	14,429	64.0	517.0	6.3	261.2	*	261.2	261.9	0.7
157	15,719	155.0	543.0	8.3	270.1	*	270.1	271.0	0.9
Poplar Branch (Basin 13, Stream 2)									
004	415	60.0	231.0	8.8	214.9 ¹	*	212.7	213.4	0.7
009	888	36.0	159.0	8.5	216.0	*	216.0	216.3	0.3
010	1,050	98.0	632.0	2.9	222.5	*	222.5	223.2	0.7

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Poplar Branch (Basin 13, Stream 2)									
017	1,704	65.0	211.0	7.5	223.9	*	223.9	224.7	0.8
025	2,474	135.0	437.0	5.2	230.2	*	230.2	231.0	0.8
028	2,790	110.0	307.0	7.8	233.9	*	233.9	234.8	0.9
034	3,368	95.0	233.0	3.9	241.4	*	241.4	241.8	0.4
035	3,536	95.0	486.0	2.9	242.5	*	242.5	242.9	0.4
038	3,798	166.0	761.0	1.1	248.2	*	248.2	248.6	0.4
043	4,273	80.0	275.0	4.8	248.2	*	248.2	248.5	0.3
Poplar Creek (Basin 13, Stream 1)									
003	267	400.0	702.0	9.3	165.6 ¹	*	154.5	155.2	0.7
016	1,625	150.0	1002.0	6.1	165.6 ¹	*	156.7	157.7	1.0
026	2,638	230.0	1562.0	4.3	165.6 ¹	*	158.0	158.9	0.9
045	4,487	188.0	1036.0	7.6	165.6 ¹	*	161.8	162.5	0.7
049	4,926	179.0	1326.0	5.7	165.7	*	165.7	165.7	0.0
056	5,615	85.0	687.0	8.9	167.0	*	167.0	167.3	0.3
064	6,352	115.0	1001.0	7.5	171.2	*	171.2	171.3	0.1
065	6,505	135.0	1340.0	5.9	171.9	*	171.9	172.1	0.2
067	6,730	180.0	1760.0	4.4	172.0	*	172.0	172.6	0.6
077	7,691	305.0	2348.0	3.2	172.2	*	172.2	173.1	0.9
085	8,470	220.0	1496.0	4.7	173.0	*	173.0	173.9	0.9
091	9,093	330.0	2042.0	4.3	174.8	*	174.8	175.5	0.7
102	10,169	285.0	1505.0	5.0	176.5	*	176.5	177.1	0.6
111	11,077	330.0	1651.0	4.9	177.8	*	177.8	178.7	0.9
121	12,112	355.0	1908.0	3.2	180.6	*	180.6	181.4	0.8
131	13,115	340.0	2166.0	3.1	185.2	*	185.2	185.7	0.5
144	14,368	275.0	1244.0	4.1	186.5	*	186.5	187.4	0.9
160	16,049	295.0	1146.0	6.0	191.5	*	191.5	192.3	0.8
180	18,021	150.0	728.0	7.1	199.3	*	199.3	200.1	0.8
189	18,881	220.0	823.0	5.9	201.6	*	201.6	202.4	0.8
200	20,019	290.0	1283.0	4.8	207.6	*	207.6	207.7	0.1
218	21,830	240.0	891.0	6.6	213.5	*	213.5	214.3	0.8
224	22,366	180.0	378.0	8.4	216.3	*	216.3	217.2	0.9
229	22,942	100.0	824.0	2.4	224.2	*	224.2	224.9	0.7
238	23,778	115.0	485.0	6.0	225.1	*	225.1	226.0	0.9
252	25,213	145.0	480.0	6.4	231.0	*	231.0	231.9	0.9
264	26,389	85.0	819.0	2.8	251.0	*	251.0	251.3	0.3
271	27,134	120.0	672.0	3.5	251.1	*	251.1	251.7	0.6
277	27,727	90.0	330.0	6.9	256.0	*	256.0	257.0	1.0
Powell Creek (Basin 8, Stream 7)									
002	155	125.0	951.0	3.4	193.2 ¹	*	189.7	189.9	0.2
012	1,171	299.0	2924.0	1.1	194.2	*	194.2	194.4	0.2
020	2,048	98.0	616.0	9.7	194.3	*	194.3	194.4	0.1
027	2,719	88.0	677.0	7.9	195.8	*	195.8	196.8	1.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Powell Creek (Basin 8, Stream 7)									
036	3,567	117.0	1089.0	6.1	199.0	*	199.0	200.0	1.0
045	4,459	125.0	936.0	3.5	199.5	*	199.5	200.4	0.9
057	5,664	425.0	2065.0	1.6	199.8	*	199.8	200.7	0.9
067	6,706	75.0	360.0	9.0	201.7	*	201.7	202.1	0.4
075	7,498	305.0	1538.0	2.0	203.6	*	203.6	204.2	0.6
083	8,276	70.0	386.0	8.3	205.2	*	205.2	205.3	0.1
095	9,454	537.0	2655.0	3.0	213.3	*	213.3	213.3	0.0
106	10,571	743.0	5218.0	1.4	215.9	*	215.9	215.9	0.0
115	11,459	280.0	1468.0	5.9	216.5	*	216.5	216.5	0.0
120	12,018	598.0	3467.0	2.6	217.3	*	217.3	217.3	0.0
130	13,002	325.0	1643.0	5.2	218.1	*	218.1	218.1	0.0
140	13,997	324.0	1787.0	3.7	226.9	*	226.9	226.9	0.0
147	14,699	315.0	1830.0	4.0	227.4	*	227.4	227.4	0.0
160	15,997	210.0	1409.0	2.0	228.0	*	228.0	228.0	0.0
172	17,228	440.0	1683.0	1.9	228.2	*	228.2	228.2	0.0
186	18,643	160.0	791.0	3.2	232.3	*	232.3	232.8	0.5
193	19,337	190.0	656.0	4.4	233.6	*	233.6	234.0	0.4
197	19,735	90.0	487.0	4.4	236.1	*	236.1	236.1	0.0
207	20,692	305.0	1206.0	2.4	236.7	*	236.7	236.7	0.0
217	21,733	185.0	652.0	4.5	239.0	*	239.0	239.8	0.8
229	22,855	168.0	352.0	7.8	243.9	*	243.9	244.1	0.2
239	23,922	355.0	679.0	3.0	246.2	*	246.2	246.2	0.0
253	25,333	140.0	381.0	5.8	251.3	*	251.3	251.7	0.4
260	26,020	100.0	306.0	6.7	254.1	*	254.1	254.2	0.1
264	26,449	300.0	3049.0	0.5	267.8	*	267.8	267.8	0.0
272	27,195	424.0	3813.0	0.4	267.8	*	267.8	267.8	0.0
280	27,999	225.0	1089.0	1.0	267.8	*	267.8	267.8	0.0
285	28,471	42.0	131.0	12.5	270.1	*	270.1	270.4	0.3
293	29,279	55.0	193.0	7.9	297.8	*	297.8	298.1	0.3
Reedy Branch (Basin 27, Stream 5)									
010	1,017	605.0	3079.0	1.0	238.7	*	238.7	239.7	1.0
017	1,666	250.0	910.0	3.3	239.4	*	239.4	240.3	0.9
034	3,393	240.0	1591.0	1.9	246.4	*	246.4	247.4	1.0
048	4,763	405.0	2302.0	1.3	249.1	*	249.1	249.8	0.7
064	6,403	370.0	2158.0	1.3	254.5	*	254.5	255.4	0.9
069	6,929	170.0	935.0	3.1	255.1	*	255.1	256.1	1.0
072	7,243	130.0	754.0	3.8	256.5	*	256.5	257.3	0.8
080	7,966	190.0	1184.0	2.4	259.3	259.6	259.3	260.3	1.0
085	8,517	250.0	1577.0	1.8	260.6	260.9	260.6	261.6	1.0
090	8,990	280.0	1268.0	2.3	261.6	261.8	261.6	262.4	0.8
097	9,685	320.0	1487.0	1.9	264.9	265.1	264.9	265.5	0.6

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Reedy Branch (Basin 27, Stream 5)									
102	10,193	305.0	1567.0	1.8	265.7	266.0	265.7	266.4	0.7
107	10,679	240.0	898.0	3.2	267.0	267.2	267.0	267.5	0.5
111	11,138	70.0	309.0	4.4	269.5	269.7	269.5	270.3	0.8
120	11,962	28.0	183.0	7.4	274.1	274.4	274.1	275.0	0.9
124	12,438	120.0	913.0	1.4	280.1	280.3	280.1	280.2	0.1
132	13,164	110.0	433.0	2.9	280.2	280.3	280.2	280.6	0.4
134	13,405	93.0	296.0	4.2	280.8	280.9	280.8	281.6	0.8
Reedy Branch Tributary (Basin 27, Stream 6)									
009	864	127.0	549.0	3.1	268.0	*	268.0	269.0	1.0
012	1,197	90.0	463.0	3.7	270.3	*	270.3	271.2	0.9
018	1,811	92.0	624.0	2.7	273.3	*	273.3	274.1	0.8
027	2,666	124.0	701.0	2.4	276.1	*	276.1	277.1	1.0
031	3,137	92.0	555.0	3.0	277.9	*	277.9	278.9	1.0
039	3,850	120.0	640.0	2.6	281.5	*	281.5	282.4	0.9
045	4,488	90.0	626.0	2.7	284.1	*	284.1	285.1	1.0
050	4,980	85.0	405.0	3.8	286.6	*	286.6	287.5	0.9
056	5,596	65.0	383.0	4.0	292.4	*	292.4	293.2	0.8
061	6,069	90.0	597.0	2.6	295.1	*	295.1	296.1	1.0
065	6,541	80.0	408.0	3.8	297.1	*	297.1	298.0	0.9
071	7,080	95.0	379.0	4.1	301.3	*	301.3	302.2	0.9
078	7,789	130.0	923.0	1.7	309.4	*	309.4	310.4	1.0
083	8,257	105.0	557.0	2.8	310.2	*	310.2	311.2	1.0
Reedy Creek (Basin 20, Stream 11)									
005	486	226.0	330.0	6.3	238.8 ¹	*	235.8	235.9	0.1
017	1,681	150.0	681.0	5.5	241.5	*	241.5	242.3	0.8
029	2,862	130.0	447.0	5.5	248.1	*	248.1	248.1	0.0
043	4,341	170.0	474.0	5.8	251.9	*	251.9	252.8	0.9
053	5,266	89.0	308.0	7.6	259.0	*	259.0	259.3	0.3
058	5,800	59.0	327.0	6.2	262.2	*	262.2	262.8	0.6
069	6,872	75.0	195.0	10.3	268.8	*	268.8	268.8	0.0
080	8,011	70.0	240.0	9.4	278.2	*	278.2	278.7	0.5
093	9,273	45.0	302.0	5.1	287.6	*	287.6	288.1	0.5
096	9,570	78.0	514.0	3.3	292.6	*	292.6	292.8	0.2
099	9,923	78.0	519.0	3.5	293.3	*	293.3	294.2	0.9
103	10,259	80.0	432.0	4.7	293.6	*	293.6	294.5	0.9
106	10,588	95.0	352.0	6.3	294.0	*	294.0	294.9	0.9
114	11,444	65.0	259.0	4.7	299.7	*	299.7	300.5	0.8
119	11,860	60.0	367.0	3.9	306.5	*	306.5	306.9	0.4
123	12,273	57.0	276.0	4.9	306.8	*	306.8	307.5	0.7
125	12,507	67.0	273.0	4.6	308.2	*	308.2	308.8	0.6
132	13,225	55.0	186.0	8.1	312.3	*	312.3	313.0	0.7
139	13,932	45.0	200.0	5.9	316.1	*	316.1	316.3	0.2

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Reedy Creek (Basin 6, Stream 8)									
017	1,666	150.0	508.0	3.3	236.9 ¹	*	236.1	236.2	0.1
022	2,155	101.0	271.0	7.9	237.5	*	237.5	238.5	1.0
030	3,039	120.0	408.0	4.8	245.7	*	245.7	245.9	0.2
039	3,884	105.0	309.0	6.8	249.4	*	249.4	250.4	1.0
045	4,471	80.0	705.0	2.7	259.2	*	259.2	259.8	0.6
047	4,671	65.0	622.0	2.6	261.0	*	261.0	261.9	0.9
052	5,177	100.0	755.0	2.1	261.0	*	261.0	262.0	1.0
Reedy Creek Tributary (Basin 20, Stream 9)									
012	1,195	116.0	359.0	6.1	248.0	*	248.0	248.5	0.5
019	1,936	95.0	362.0	6.5	252.3	*	252.3	253.1	0.8
026	2,625	60.0	250.0	7.2	255.5	*	255.5	256.0	0.5
031	3,053	43.0	279.0	5.0	258.2	*	258.2	258.8	0.6
037	3,655	45.0	196.0	7.4	260.8	*	260.8	260.9	0.1
040	3,998	50.0	330.0	5.4	265.9	*	265.9	266.4	0.5
049	4,893	41.0	136.0	11.8	268.3	*	268.3	268.5	0.2
Richland Creek									
015	1,475	426.0	2599.0	7.9	202.9 ¹	*	197.6	198.4	0.8
027	2,736	545.0	3443.0	5.9	202.9 ¹	*	199.6	200.5	0.9
038	3,828	405.0	2122.0	10.4	202.9 ¹	*	202.8	203.7	0.9
049	4,902	491.0	3370.0	6.1	205.5	*	205.5	206.5	1.0
056	5,562	328.0	2120.0	7.8	206.5	*	206.5	207.5	1.0
069	6,943	475.0	2735.0	6.4	213.0	*	213.0	213.1	0.1
077	7,671	480.0	2932.0	4.5	213.9	*	213.9	214.2	0.3
085	8,514	339.0	2175.0	7.7	215.3	*	215.3	216.1	0.8
094	9,410	205.0	1484.0	9.1	217.0	*	217.0	217.8	0.8
104	10,421	241.0	1784.0	8.6	221.3	*	221.3	222.1	0.8
114	11,415	163.0	1217.0	7.0	223.4	*	223.4	224.1	0.7
124	12,408	221.0	1161.0	9.9	224.4	*	224.4	225.0	0.6
130	13,027	259.0	1078.0	8.5	227.5	*	227.5	228.5	1.0
144	14,364	475.0	2308.0	7.4	232.1	*	232.1	232.1	0.0
157	15,724	260.0	1661.0	7.9	237.3	*	237.3	237.3	0.0
177	17,684	225.0	1443.0	9.4	241.2	*	241.2	242.1	0.9
190	18,993	205.0	982.0	10.1	244.5	*	244.5	245.0	0.5
200	19,964	90.0	710.0	11.4	248.3	*	248.3	249.1	0.8
202	20,245	90.0	802.0	5.9	250.5	250.5	250.5	251.1	0.6
209	20,939	160.0	1266.0	3.7	251.9	251.9	251.9	252.9	1.0
214	21,418	120.0	830.0	5.7	253.4	253.4	253.4	254.4	1.0
220	22,026	208.0	1401.0	3.4	256.5	256.6	256.5	257.0	0.5
234	23,416	200.0	1557.0	3.0	260.8	260.8	260.8	261.1	0.3
239	23,922	315.0	2056.0	2.3	261.7	261.7	261.7	262.2	0.5
249	24,871	245.0	1448.0	3.2	264.3	264.3	264.3	265.2	0.9
253	25,325	225.0	1366.0	3.3	265.0	265.0	265.0	266.0	1.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Richland Creek									
262	26,150	210.0	1421.0	3.2	269.6	269.6	269.6	269.9	0.3
268	26,759	250.0	1503.0	3.0	270.9	270.9	270.9	271.9	1.0
272	27,156	240.0	1194.0	3.8	272.1	272.1	272.1	273.1	1.0
278	27,750	240.0	1670.0	2.7	275.8	275.8	275.8	275.9	0.1
285	28,487	275.0	1846.0	2.5	277.0	277.0	277.0	277.7	0.7
292	29,182	330.0	1783.0	2.6	278.0	278.0	278.0	279.0	1.0
299	29,939	270.0	1442.0	3.2	279.6	279.6	279.6	280.6	1.0
310	31,033	175.0	1663.0	2.7	289.5	289.5	289.5	290.2	0.7
317	31,671	245.0	2192.0	2.0	290.0	290.0	290.0	290.8	0.8
323	32,262	250.0	1694.0	2.5	290.3	290.3	290.3	291.3	1.0
328	32,835	110.0	637.0	6.6	290.9	290.9	290.9	291.9	1.0
333	33,305	160.0	1021.0	4.1	294.5	294.5	294.5	295.1	0.6
337	33,724	220.0	1425.0	2.9	296.2	296.2	296.2	296.9	0.7
341	34,088	225.0	1317.0	3.2	297.1	297.1	297.1	297.9	0.8
345	34,540	235.0	1395.0	2.6	298.4	298.4	298.4	299.4	1.0
350	35,007	142.0	826.0	4.4	299.5	299.5	299.5	300.3	0.8
355	35,530	72.0	441.0	8.2	301.2	301.2	301.2	302.2	1.0
Richland Creek (Basin 18, Stream 3)									
013	1,262	43.0	205.0	7.0	242.7 ¹	*	237.4	237.7	0.3
021	2,069	34.0	183.0	8.2	242.9	*	242.9	242.9	0.0
031	3,120	34.0	181.0	8.2	249.6	*	249.6	250.0	0.4
041	4,087	36.0	250.0	6.1	257.3	*	257.3	257.7	0.4
050	4,985	48.0	204.0	7.3	261.2	*	261.2	261.4	0.2
060	6,024	32.0	202.0	6.8	267.5	*	267.5	267.5	0.0
071	7,116	29.0	261.0	5.3	271.2	*	271.2	271.3	0.1
081	8,085	23.0	161.0	8.3	276.0	*	276.0	276.1	0.1
091	9,124	31.0	157.0	3.2	277.9	*	277.9	278.0	0.1
113	11,251	1017.0	12333.0	0.1	311.6	*	311.6	311.6	0.0
130	13,019	610.0	7743.0	0.2	314.2	*	314.2	314.2	0.0
141	14,128	582.0	5378.0	0.7	314.2	*	314.2	314.2	0.0
150	14,987	430.0	2671.0	1.2	314.2	*	314.2	314.2	0.0
161	16,077	452.0	856.0	4.2	314.5	*	314.5	314.5	0.0
169	16,908	55.0	336.0	13.4	318.4	*	318.4	318.4	0.0
177	17,748	70.0	476.0	11.9	324.9	*	324.9	325.9	1.0
186	18,649	43.0	347.0	8.3	329.2	*	329.2	329.7	0.5
195	19,467	34.0	243.0	10.8	333.6	*	333.6	334.0	0.4
207	20,681	108.0	550.0	7.3	338.9	*	338.9	339.8	0.9
217	21,720	85.0	631.0	4.2	348.3	*	348.3	348.3	0.0
226	22,620	94.0	331.0	7.9	349.6	*	349.6	350.1	0.5
234	23,412	85.0	593.0	3.9	357.6	*	357.6	357.6	0.0
246	24,581	70.0	480.0	6.4	368.4	*	368.4	368.4	0.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Richland Creek (Basin 18, Stream 3)									
253	25,311	71.0	474.0	8.9	373.1	*	373.1	373.5	0.4
260	26,008	40.0	189.0	2.9	375.3	*	375.3	376.3	1.0
Richland Creek Tributary									
002	188	119.0	523.0	6.7	226.5 ¹	*	224.5	224.6	0.1
006	610	143.0	472.0	6.7	231.6	*	231.6	231.8	0.2
010	1,045	81.0	301.0	10.0	235.2	*	235.2	235.3	0.1
015	1,479	109.0	495.0	7.2	239.4	*	239.4	239.5	0.1
020	2,026	25.0	131.0	13.8	244.4	*	244.4	244.4	0.0
025	2,455	40.0	209.0	6.6	251.2	251.7	251.2	251.4	0.2
029	2,872	40.0	215.0	5.5	254.1	254.5	254.1	255.1	1.0
033	3,341	22.0	104.0	11.5	258.8	259.1	258.8	259.4	0.6
038	3,804	30.0	143.0	8.3	265.0	265.4	265.0	266.0	1.0
043	4,285	30.0	163.0	7.1	269.5	269.8	269.5	270.2	0.7
048	4,819	43.0	129.0	9.0	277.0	277.4	277.0	277.0	0.0
052	5,240	20.0	99.0	11.7	282.3	282.7	282.3	282.3	0.0
057	5,689	20.0	120.0	5.6	287.1	287.6	287.1	287.3	0.2
060	6,038	18.0	64.0	10.5	289.3	289.5	289.3	289.3	0.0
064	6,430	66.0	791.0	0.8	310.8	310.9	310.8	311.8	1.0
Rocky Branch (Basin 22, Stream 8)									
016	1,551	110.0	390.0	6.5	299.9	*	299.9	300.7	0.8
028	2,809	65.0	299.0	7.8	305.3	*	305.3	306.3	1.0
042	4,166	100.0	349.0	7.5	312.4	*	312.4	312.9	0.5
047	4,730	120.0	892.0	2.5	319.6	*	319.6	320.3	0.7
060	6,010	100.0	467.0	5.6	321.3	*	321.3	322.1	0.8
072	7,249	60.0	285.0	8.5	330.1	*	330.1	330.7	0.6
085	8,506	170.0	527.0	6.1	337.4	*	337.4	337.4	0.0
096	9,624	185.0	443.0	7.7	342.3	*	342.3	342.4	0.1
105	10,507	110.0	443.0	5.9	345.4	*	345.4	345.6	0.2
114	11,391	95.0	436.0	5.3	351.3	*	351.3	351.7	0.4
118	11,825	105.0	263.0	10.8	354.2	*	354.2	354.6	0.4
125	12,547	100.0	218.0	10.0	356.8	*	356.8	357.2	0.4
131	13,080	95.0	214.0	10.2	361.3	*	361.3	361.3	0.0
134	13,389	75.0	256.0	8.0	363.1	*	363.1	363.4	0.3
137	13,653	75.0	478.0	4.9	369.4	*	369.4	370.1	0.7
143	14,307	125.0	243.0	10.0	370.5	*	370.5	371.5	1.0
Rocky Branch (Basin 30, Stream 5)									
009	876	94.0	722.0	6.5	236.5 ¹	*	233.3	233.3	0.0
018	1,788	258.0	1687.0	4.1	236.5 ¹	*	234.3	234.7	0.4
029	2,881	216.0	873.0	7.2	236.5 ¹	*	235.6	235.8	0.2
036	3,594	174.0	506.0	11.1	237.9	*	237.9	237.9	0.0
039	3,851	140.0	508.0	8.3	241.5	*	241.5	241.8	0.3
045	4,472	220.0	1382.0	4.7	243.7	*	243.7	244.1	0.4

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Rocky Branch (Basin 30, Stream 5)									
050	5,008	179.0	618.0	6.4	246.8	*	246.8	246.8	0.0
053	5,346	171.0	1167.0	5.5	251.3	*	251.3	251.3	0.0
059	5,869	144.0	1116.0	4.9	251.7	*	251.7	251.8	0.1
064	6,377	58.0	479.0	7.5	255.0	*	255.0	255.0	0.0
074	7,407	65.0	378.0	11.4	260.3	*	260.3	261.0	0.7
081	8,052	72.0	712.0	4.7	269.7	*	269.7	270.0	0.3
090	8,986	80.0	494.0	9.0	273.0	*	273.0	273.7	0.7
096	9,612	105.0	794.0	5.3	286.2	*	286.2	286.7	0.5
100	9,962	99.0	978.0	3.0	289.5	*	289.5	290.0	0.5
110	11,033	29.0	300.0	9.3	291.7	*	291.7	291.7	0.0
120	12,018	47.0	390.0	6.7	298.5	*	298.5	298.6	0.1
123	12,326	103.0	772.0	5.4	306.9	*	306.9	307.4	0.5
126	12,623	80.0	530.0	5.5	311.9	*	311.9	312.1	0.2
127	12,678	80.0	675.0	4.3	314.8	*	314.8	315.7	0.9
136	13,634	256.0	516.0	9.1	317.4	*	317.4	317.4	0.0
138	13,776	210.0	781.0	6.2	320.8	*	320.8	320.9	0.1
141	14,053	77.0	490.0	7.8	325.6	*	325.6	325.6	0.0
145	14,520	149.0	695.0	4.0	326.8	*	326.8	326.8	0.0
151	15,053	63.0	298.0	14.3	329.3	*	329.3	329.3	0.0
155	15,461	77.0	300.0	8.3	333.1	*	333.1	333.1	0.0
161	16,096	53.0	485.0	5.1	351.1	*	351.1	351.1	0.0
162	16,169	65.0	583.0	5.3	351.3	*	351.3	351.3	0.0
172	17,157	38.0	198.0	9.8	351.3	*	351.3	351.5	0.2
174	17,366	72.0	537.0	3.3	361.2	*	361.2	361.2	0.0
180	18,043	40.0	150.0	10.6	362.7	*	362.7	362.7	0.0
182	18,223	49.0	254.0	8.1	367.5	*	367.5	367.5	0.0
188	18,821	34.0	200.0	6.4	369.7	*	369.7	369.7	0.0
190	18,984	65.0	331.0	4.7	381.0	*	381.0	381.5	0.5
201	20,101	47.0	137.0	9.8	392.5	*	392.5	392.6	0.1
202	20,243	61.0	259.0	7.0	395.6	*	395.6	396.4	0.8
209	20,859	52.0	259.0	6.2	403.6	*	403.6	403.6	0.0
217	21,746	77.0	108.0	7.7	415.1	*	415.1	415.2	0.1
220	22,015	70.0	265.0	3.8	421.2	*	421.2	421.5	0.3
223	22,285	31.0	116.0	5.3	424.5	*	424.5	424.7	0.2
224	22,422	23.0	103.0	6.0	425.7	*	425.7	426.1	0.4
226	22,608	42.0	151.0	4.0	429.7	*	429.7	430.3	0.6
229	22,944	70.0	435.0	2.8	442.5	*	442.5	443.3	0.8
233	23,338	113.0	758.0	0.7	442.6	*	442.6	443.4	0.8
Rocky Ford Branch (Basin 24, Stream 5)									
000	35	30.0	98.0	6.7	305.4 ¹	*	302.0	302.7	0.7
008	779	55.0	115.0	7.9	308.9	*	308.9	309.0	0.1

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Rocky Ford Branch (Basin 24, Stream 5)									
011	1,064	61.0	182.0	3.6	313.3	*	313.3	313.3	0.0
018	1,801	37.0	81.0	9.2	318.7	*	318.7	319.0	0.3
026	2,584	31.0	72.0	7.4	329.5	*	329.5	329.5	0.0
029	2,862	268.0	1909.0	0.2	343.0	*	343.0	343.2	0.2
032	3,220	40.0	78.0	9.8	343.1	*	343.1	343.3	0.2
035	3,513	42.0	193.0	4.0	349.2	*	349.2	349.2	0.0
042	4,234	29.0	66.0	9.8	349.8	*	349.8	349.9	0.1
044	4,385	40.0	184.0	3.3	351.1	*	351.1	351.8	0.7
048	4,808	37.0	87.0	7.1	356.7	*	356.7	357.3	0.6
052	5,242	55.0	135.0	3.6	358.8	*	358.8	359.7	0.9
Sanford Creek (Basin 6, Stream 7)									
017	1,740	190.0	839.0	4.8	217.4	*	217.4	217.9	0.5
023	2,347	170.0	700.0	7.1	218.9	*	218.9	219.9	1.0
030	2,977	115.0	803.0	5.2	223.9	*	223.9	224.3	0.4
039	3,909	233.0	1079.0	4.5	224.6	*	224.6	225.6	1.0
050	5,019	110.0	464.0	9.2	228.4	*	228.4	228.7	0.3
059	5,890	85.0	595.0	6.5	232.4	*	232.4	232.9	0.5
081	8,127	204.0	841.0	4.1	236.6	*	236.6	237.0	0.4
085	8,547	210.0	589.0	6.2	237.0	*	237.0	238.0	1.0
094	9,400	160.0	526.0	3.4	241.3	*	241.3	242.2	0.9
098	9,797	120.0	404.0	4.3	242.9	*	242.9	243.9	1.0
Smith Creek									
006	598	505.0	2569.0	5.3	198.8 ¹	*	192.9	193.1	0.2
020	2,028	390.0	2782.0	4.4	198.8 ¹	*	194.1	194.8	0.7
032	3,169	385.0	2660.0	4.7	198.8 ¹	*	195.1	196.1	1.0
040	4,002	217.0	1617.0	6.6	198.8 ¹	*	197.6	198.1	0.5
052	5,194	350.0	3236.0	3.7	201.1	*	201.1	201.9	0.8
067	6,696	630.0	4045.0	3.1	202.1	*	202.1	202.9	0.8
081	8,113	385.0	2120.0	5.4	202.9	*	202.9	203.8	0.9
088	8,773	151.0	1313.0	7.6	206.7	*	206.7	207.7	1.0
097	9,723	250.0	1941.0	5.8	208.4	*	208.4	209.3	0.9
107	10,665	170.0	1306.0	7.5	210.7	*	210.7	211.3	0.6
117	11,699	220.0	1718.0	5.9	212.4	*	212.4	213.3	0.9
135	13,470	330.0	2463.0	4.4	215.5	*	215.5	216.3	0.8
145	14,511	360.0	2323.0	3.4	216.4	*	216.4	217.3	0.9
156	15,563	260.0	1343.0	6.6	217.6	*	217.6	218.5	0.9
168	16,773	330.0	1836.0	4.5	221.2	*	221.2	221.9	0.7
182	18,243	205.0	1031.0	8.8	225.6	*	225.6	226.4	0.8
188	18,831	141.0	1139.0	5.5	229.0	*	229.0	229.0	0.0
195	19,452	170.0	1220.0	6.1	230.2	*	230.2	230.5	0.3
199	19,862	341.0	2185.0	3.4	230.6	*	230.6	231.2	0.6

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Smith Creek									
212	21,214	160.0	1076.0	5.3	230.9	*	230.9	231.7	0.8
225	22,517	72.0	571.0	8.5	234.0	*	234.0	234.5	0.5
227	22,714	82.0	759.0	6.4	235.8	*	235.8	236.3	0.5
229	22,928	188.0	904.0	6.7	236.7	*	236.7	237.1	0.4
238	23,837	160.0	706.0	7.7	239.2	*	239.2	239.8	0.6
248	24,846	245.0	1015.0	5.7	242.4	*	242.4	243.3	0.9
261	26,117	185.0	635.0	9.1	246.9	*	246.9	247.4	0.5
268	26,824	110.0	561.0	8.9	249.4	*	249.4	249.9	0.5
278	27,829	135.0	381.0	8.6	253.0	*	253.0	253.5	0.5
289	28,941	60.0	343.0	6.5	258.9	*	258.9	259.6	0.7
295	29,498	150.0	693.0	4.1	262.2	*	262.2	262.4	0.2
303	30,314	80.0	344.0	7.5	266.1	*	266.1	266.7	0.6
308	30,835	46.0	515.0	3.5	271.1	*	271.1	271.8	0.7
314	31,372	672.0	11812.0	0.1	301.0	*	301.0	301.0	0.0
325	32,548	393.0	6050.0	0.3	301.0	*	301.0	301.0	0.0
337	33,728	416.0	6297.0	0.3	301.0	*	301.0	301.0	0.0
347	34,734	325.0	4619.0	0.4	301.0	*	301.0	301.0	0.0
363	36,307	139.0	1463.0	1.1	301.0	*	301.0	301.0	0.0
371	37,100	325.0	1165.0	2.4	301.0	*	301.0	301.0	0.0
375	37,534	165.0	919.0	2.7	304.0	*	304.0	304.1	0.1
387	38,657	70.0	226.0	8.3	307.9	*	307.9	308.5	0.6
397	39,743	100.0	339.0	4.8	312.0	*	312.0	312.7	0.7
409	40,909	44.0	149.0	10.9	319.9	*	319.9	319.9	0.0
421	42,095	123.0	242.0	9.2	327.1	*	327.1	327.1	0.0
Southeast Prong Beaverdam Creek (Basin 18, Stream 30)									
005	457	59.0	249.0	3.9	247.6 ¹	*	246.9	247.8	0.9
015	1,498	85.0	350.0	9.6	256.5	*	256.5	256.9	0.4
023	2,260	62.0	241.0	12.3	262.9	*	262.9	263.0	0.1
032	3,150	65.0	257.0	7.2	271.6	*	271.6	272.3	0.7
041	4,091	34.0	213.0	10.1	281.7	*	281.7	282.1	0.4
052	5,194	73.0	476.0	3.3	299.3	*	299.3	299.3	0.0
064	6,400	85.0	606.0	3.6	314.9	*	314.9	315.6	0.7
074	7,385	54.0	143.0	8.8	324.2	*	324.2	325.1	0.9
Southwest Prong Beaverdam Creek (Basin 18, Stream 29)									
000	0	175.0	1169.0	3.5	247.5	248.2	247.5	247.9	0.4
002	210	81.0	644.0	3.7	248.3	249.1	248.3	248.8	0.5
005	531	110.0	697.0	3.4	249.7	250.5	249.7	250.2	0.5
010	961	70.0	476.0	5.0	250.8	251.6	250.8	251.3	0.5
013	1,326	35.0	307.0	7.7	262.6	266.9	262.6	262.6	0.0
018	1,763	131.0	411.0	5.7	266.8	268.6	266.8	266.8	0.0
023	2,307	29.0	271.0	7.8	270.6	271.3	270.6	270.6	0.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Southwest Prong Beaverdam Creek (Basin 18, Stream 29)									
029	2,860	56.0	384.0	5.5	277.0	279.4	277.0	277.1	0.1
031	3,140	125.0	580.0	3.6	280.1	280.6	280.1	281.1	1.0
036	3,577	94.0	389.0	5.4	283.8	284.7	283.8	284.4	0.6
040	4,020	64.0	307.0	6.9	288.4	290.4	288.4	288.5	0.1
046	4,558	92.0	448.0	4.4	293.0	293.7	293.0	293.7	0.7
052	5,185	80.0	282.0	5.8	298.9	299.4	298.9	299.5	0.6
060	5,999	74.0	310.0	5.3	307.6	308.4	307.6	308.6	1.0
065	6,547	130.0	488.0	3.4	315.3	316.0	315.3	315.5	0.2
070	6,965	75.0	225.0	7.2	317.7	318.4	317.7	317.9	0.2
074	7,403	70.0	333.0	3.6	320.7	321.6	320.7	321.7	1.0
079	7,902	132.0	862.0	1.4	332.9	334.0	332.9	333.9	1.0
083	8,336	48.0	234.0	4.5	334.8	336.4	334.8	335.6	0.8
087	8,674	89.0	839.0	1.3	345.4	345.7	345.4	346.3	0.9
093	9,338	62.0	296.0	3.6	349.1	349.5	349.1	350.1	1.0
Spring Branch (Basin 6, Stream 6)									
008	782	112.0	398.0	5.1	244.8	*	244.8	244.8	0.0
019	1,873	120.0	312.0	7.0	253.8	*	253.8	254.7	0.9
026	2,597	120.0	372.0	6.4	261.0	*	261.0	261.9	0.9
029	2,899	70.0	205.0	9.4	263.2	*	263.2	263.8	0.6
034	3,435	90.0	327.0	5.2	284.3	*	284.3	284.3	0.0
042	4,165	40.0	134.0	11.1	290.7	*	290.7	290.7	0.0
046	4,585	30.0	126.0	13.1	302.0	*	302.0	302.9	0.9
050	4,979	81.0	512.0	4.2	312.6	*	312.6	313.4	0.8
063	6,338	50.0	241.0	9.3	320.6	*	320.6	321.1	0.5
073	7,315	42.0	299.0	4.5	332.3	*	332.3	333.3	1.0
077	7,731	53.0	542.0	1.8	341.0	*	341.0	341.8	0.8
079	7,900	100.0	667.0	1.9	341.0	*	341.0	341.9	0.9
080	7,970	100.0	570.0	2.1	341.1	*	341.1	341.9	0.8
084	8,391	60.0	139.0	9.7	344.9	*	344.9	344.9	0.0
Stirrup Iron Creek									
015	1,535	3560.0	3178.0	0.7	284.2 ²	*	267.9	267.9	0.0
034	3,424	927.0	13154.0	0.2	284.2 ²	*	284.1	284.1	0.0
059	5,910	750.0	5990.0	0.4	284.2 ²	*	284.1	284.1	0.0
082	8,190	619.0	2885.0	0.9	284.2 ²	*	284.2	284.2	0.0
092	9,198	590.0	2195.0	1.2	284.2	*	284.2	284.3	0.1
104	10,356	345.0	435.0	5.8	284.4	*	284.4	284.4	0.0
115	11,534	195.0	633.0	2.7	285.9	*	285.9	286.3	0.4
123	12,260	124.0	400.0	3.4	286.6	*	286.6	287.0	0.4
129	12,909	54.0	233.0	4.5	287.7	*	287.7	288.0	0.3
132	13,246	53.0	293.0	3.6	289.5	*	289.5	289.8	0.3
139	13,904	63.0	496.0	2.3	292.6	*	292.6	292.7	0.1

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Stirrup Iron Creek									
141	14,101	65.0	387.0	2.9	292.7	*	292.7	293.2	0.5
146	14,574	70.0	428.0	2.9	293.1	*	293.1	293.5	0.4
149	14,906	90.0	414.0	3.1	293.4	*	293.4	293.7	0.3
156	15,579	76.0	399.0	3.0	293.8	*	293.8	294.2	0.4
166	16,612	95.0	653.0	1.5	294.5	*	294.5	294.9	0.4
Straight Branch (Basin 20, Stream 23)									
006	595	466.0	5027.0	0.4	362.8 ¹	*	362.7	362.8	0.1
013	1,299	193.0	1725.0	1.1	362.8 ¹	*	362.7	362.8	0.1
017	1,678	130.0	1289.0	1.5	369.1	*	369.1	369.1	0.0
022	2,211	100.0	529.0	3.2	369.2	*	369.2	369.6	0.4
026	2,571	115.0	985.0	1.7	374.1	*	374.1	374.9	0.8
030	2,977	106.0	599.0	2.8	374.3	*	374.3	375.3	1.0
036	3,648	56.0	155.0	4.6	378.3	*	378.3	378.9	0.6
Swift Creek									
1451	145,113	730.0	7210.0	3.0	202.8	*	202.8	203.7	0.9
1494	149,425	1120.0	7440.0	3.3	203.6	*	203.6	204.5	0.9
1526	152,551	910.0	4920.0	4.6	205.0	*	205.0	205.8	0.8
1555	155,540	520.0	3755.0	5.9	208.1	*	208.1	208.9	0.8
1592	159,171	760.0	5595.0	3.9	211.0	*	211.0	211.7	0.7
1621	162,114	480.0	3484.0	6.1	213.2	*	213.2	214.0	0.8
1654	165,432	350.0	3452.0	5.5	217.0	*	217.0	217.9	0.9
1691	169,072	945.0	3119.0	6.6	219.4	*	219.4	220.1	0.7
1705	170,549	925.0	6763.0	3.7	220.6	*	220.6	221.5	0.9
1721	172,111	203.0	2565.0	4.8	222.1	*	222.1	222.9	0.8
1726	172,552	175.0	2450.0	7.5	228.9	*	228.9	229.4	0.5
1728	172,840	202.0	3787.0	2.5	238.6	*	238.6	238.6	0.0
1734	173,405	390.0	5937.0	1.6	238.7	*	238.7	238.7	0.0
1756	175,554	345.0	5712.0	1.6	238.7	*	238.7	238.7	0.0
1785	178,529	990.0	16862.0	0.5	238.8	*	238.8	238.8	0.0
1806	180,575	1857.0	32382.0	0.3	238.8	*	238.8	238.8	0.0
1822	182,198	1985.0	28528.0	0.3	238.8	*	238.8	238.8	0.0
1836	183,600	1270.0	15571.0	0.6	238.8	*	238.8	238.8	0.0
1848	184,836	1025.0	4982.0	3.0	238.7	*	238.7	238.7	0.0
1863	186,291	820.0	3769.0	5.3	239.3	*	239.3	239.5	0.2
1880	187,973	615.0	3585.0	2.9	240.0	*	240.0	240.6	0.6
1897	189,743	184.0	1463.0	3.8	240.6	*	240.6	241.3	0.7
1910	190,982	225.0	1198.0	6.5	241.9	*	241.9	242.4	0.5
1924	192,411	860.0	3803.0	2.8	243.1	*	243.1	243.9	0.8
1944	194,397	660.0	2340.0	4.7	244.0	*	244.0	244.7	0.7
1954	195,442	169.0	1159.0	6.2	246.1	*	246.1	246.7	0.6
1973	197,283	1025.0	3478.0	3.5	247.5	*	247.5	248.4	0.9

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Swift Creek									
2002	200,249	665.0	2359.0	4.8	249.1	*	249.1	250.0	0.9
2028	202,848	580.0	2637.0	4.1	252.2	*	252.2	253.2	1.0
2041	204,108	340.0	1482.0	6.3	253.6	*	253.6	254.3	0.7
2044	204,395	168.0	1610.0	4.3	255.3	*	255.3	255.7	0.4
2068	206,834	625.0	2833.0	3.3	256.4	*	256.4	257.3	0.9
2098	209,791	300.0	1715.0	4.4	260.1	*	260.1	260.6	0.5
2120	211,987	200.0	1227.0	5.7	262.8	*	262.8	263.5	0.7
2128	212,753	1400.0	33184.0	0.3	289.8	*	289.8	289.8	0.0
2144	214,359	1608.0	38232.0	0.2	289.8	*	289.8	289.8	0.0
2183	218,324	1440.0	26780.0	0.3	289.8	*	289.8	289.8	0.0
2212	221,233	1430.0	25645.0	0.3	289.8	*	289.8	289.8	0.0
2226	222,590	760.0	5050.0	2.3	290.0	*	290.0	290.0	0.0
2250	224,952	1570.0	14320.0	0.5	290.0	*	290.0	290.0	0.0
2267	226,738	900.0	5712.0	3.0	290.2	*	290.2	290.4	0.2
2290	228,954	850.0	4085.0	5.0	291.7	*	291.7	292.5	0.8
2303	230,303	780.0	3447.0	6.6	293.9	*	293.9	294.9	1.0
2331	233,079	620.0	3438.0	5.9	299.1	*	299.1	299.8	0.7
2365	236,482	500.0	4235.0	3.6	307.6	*	307.6	308.0	0.4
2381	238,086	960.0	6292.0	1.5	308.1	308.6	308.1	309.0	0.9
2384	238,415	860.0	5473.0	1.7	308.4	308.8	308.4	309.3	0.9
2387	238,676	860.0	5527.0	1.7	308.7	309.1	308.7	309.6	0.9
2390	238,999	875.0	1818.0	5.1	309.1	309.4	309.1	309.7	0.6
2394	239,375	740.0	4802.0	1.9	310.4	310.7	310.4	311.1	0.7
2397	239,720	755.0	5349.0	1.7	311.0	311.3	311.0	311.7	0.7
2402	240,193	850.0	5831.0	1.6	311.3	311.6	311.3	312.0	0.7
2409	240,860	750.0	4552.0	2.0	311.7	312.0	311.7	312.5	0.8
2415	241,483	440.0	2823.0	2.3	312.4	312.6	312.4	313.2	0.8
2426	242,634	725.0	4564.0	1.4	313.6	313.8	313.6	314.4	0.8
2433	243,264	800.0	3452.0	1.9	313.9	314.2	313.9	314.8	0.9
2438	243,770	710.0	3593.0	1.8	314.3	314.6	314.3	315.1	0.8
2440	244,009	600.0	3400.0	1.9	314.6	314.9	314.6	315.4	0.8
2442	244,172	580.0	2201.0	2.9	315.1	315.4	315.1	315.6	0.5
2443	244,319	575.0	2883.0	2.2	315.8	316.0	315.8	316.4	0.6
2449	244,851	675.0	3041.0	2.1	316.7	316.9	316.7	317.4	0.7
2450	245,021	645.0	3763.0	1.7	317.5	317.7	317.5	318.2	0.7
2453	245,343	640.0	3532.0	1.8	317.6	317.8	317.6	318.2	0.6
2456	245,617	550.0	2870.0	2.2	317.7	317.9	317.7	318.4	0.7
2461	246,104	340.0	1335.0	4.8	318.0	318.2	318.0	318.7	0.7
2462	246,231	285.0	1339.0	4.8	318.7	318.8	318.7	319.2	0.5
2463	246,330	235.0	1220.0	5.3	318.9	319.1	318.9	319.6	0.7
2465	246,526	310.0	1967.0	3.3	322.0	322.5	322.0	322.0	0.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Swift Creek									
2466	246,626	385.0	2787.0	2.3	322.4	322.9	322.4	322.4	0.0
2471	247,141	615.0	4082.0	1.6	322.9	323.3	322.9	323.1	0.2
2476	247,586	580.0	3126.0	2.1	323.1	323.6	323.1	323.5	0.4
2481	248,100	575.0	3373.0	1.9	323.8	324.3	323.8	324.4	0.6
2486	248,634	470.0	2992.0	2.2	324.5	325.0	324.5	325.0	0.5
2492	249,191	700.0	3750.0	1.7	325.1	325.5	325.1	325.7	0.6
2496	249,624	590.0	3323.0	1.9	325.4	325.8	325.4	326.1	0.7
2501	250,125	530.0	2619.0	2.5	326.1	326.5	326.1	326.8	0.7
2507	250,681	700.0	4000.0	1.5	327.2	327.5	327.2	328.0	0.8
2510	250,999	625.0	3100.0	1.9	327.7	328.0	327.7	328.4	0.7
2516	251,626	90.0	987.0	6.1	331.4	331.7	331.4	332.0	0.6
2519	251,908	375.0	3243.0	1.0	332.4	332.7	332.4	332.9	0.5
2523	252,301	315.0	2551.0	1.3	332.4	332.8	332.4	332.9	0.5
2532	253,240	220.0	1447.0	2.2	332.7	333.1	332.7	333.3	0.6
2540	254,004	180.0	994.0	3.3	333.3	333.6	333.3	334.0	0.7
2547	254,738	178.0	1102.0	2.9	335.0	335.3	335.0	335.6	0.6
2559	255,896	265.0	2462.0	1.5	341.1	341.9	341.1	341.6	0.5
2565	256,548	325.0	2468.0	1.5	341.4	342.1	341.4	342.0	0.6
2569	256,943	285.0	1990.0	1.9	342.0	342.6	342.0	342.6	0.6
2572	257,204	225.0	1680.0	2.2	342.2	342.8	342.2	342.9	0.7
2578	257,788	420.0	3042.0	1.2	342.8	343.4	342.8	343.4	0.6
2581	258,136	305.0	2204.0	1.7	342.9	343.4	342.9	343.6	0.7
2585	258,524	130.0	684.0	5.4	343.0	343.5	343.0	343.2	0.2
2588	258,848	105.0	871.0	4.2	346.2	346.3	346.2	347.1	0.9
2591	259,130	155.0	1301.0	2.8	347.1	347.3	347.1	347.7	0.6
2596	259,607	180.0	1362.0	1.3	347.6	347.9	347.6	348.4	0.8
2599	259,915	80.0	845.0	2.1	350.7	351.0	350.7	351.0	0.3
2602	260,228	75.0	800.0	2.2	350.8	351.1	350.8	351.1	0.3
2605	260,470	60.0	713.0	2.4	352.9	353.7	352.9	353.2	0.3
2608	260,769	65.0	697.0	2.5	353.0	353.7	353.0	353.3	0.3
2611	261,142	66.0	709.0	2.5	353.2	353.9	353.2	353.5	0.3
2614	261,417	64.0	510.0	3.4	353.2	353.9	353.2	353.5	0.3
2624	262,350	115.0	1016.0	1.7	357.4	358.8	357.4	357.6	0.2
2626	262,612	78.0	661.0	2.6	357.5	358.8	357.5	357.7	0.2
Swift Creek Tributary No. 7 (Basin 20, Stream 24)									
007	719	224.0	1759.0	2.2	333.1	*	333.1	334.1	1.0
016	1,554	280.0	1953.0	2.0	333.9	*	333.9	334.7	0.8
026	2,555	173.0	666.0	5.7	336.9	*	336.9	336.9	0.0
031	3,109	173.0	815.0	4.7	341.5	*	341.5	341.7	0.2
033	3,273	173.0	2561.0	1.5	346.6	*	346.6	347.4	0.8
042	4,155	225.0	2540.0	1.5	346.6	*	346.6	347.5	0.9

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Swift Creek Tributary No. 7 (Basin 20, Stream 24)									
048	4,795	945.0	14750.0	0.3	356.4	*	356.4	356.5	0.1
055	5,461	865.0	12600.0	0.3	356.4	*	356.4	356.5	0.1
062	6,188	605.0	7625.0	0.4	356.4	*	356.4	356.5	0.1
070	6,953	510.0	2761.0	1.1	356.4	*	356.4	356.5	0.1
076	7,568	230.0	1458.0	2.0	356.5	*	356.5	356.6	0.1
083	8,287	310.0	1464.0	2.0	356.7	*	356.7	356.9	0.2
088	8,835	125.0	739.0	3.9	360.8	*	360.8	361.4	0.6
097	9,670	165.0	922.0	3.2	362.2	*	362.2	363.0	0.8
104	10,358	305.0	1143.0	2.6	369.8	*	369.8	370.1	0.3
111	11,137	250.0	1694.0	1.7	370.2	*	370.2	370.6	0.4
122	12,207	478.0	6495.0	0.5	383.7	*	383.7	384.0	0.3
131	13,052	630.0	8240.0	0.3	383.7	*	383.7	384.0	0.3
147	14,745	215.0	1791.0	1.3	383.7	*	383.7	384.1	0.4
152	15,179	130.0	492.0	4.8	388.1	*	388.1	388.1	0.0
155	15,539	125.0	840.0	2.8	392.4	*	392.4	392.7	0.3
159	15,867	120.0	751.0	3.2	396.5	*	396.5	397.3	0.8
166	16,575	65.0	418.0	4.6	398.1	*	398.1	399.0	0.9
171	17,073	79.0	1021.0	1.9	406.2	*	406.2	406.8	0.6
179	17,934	145.0	756.0	2.5	406.2	*	406.2	407.1	0.9
185	18,540	85.0	413.0	4.6	406.8	*	406.8	407.7	0.9
190	19,027	80.0	378.0	5.0	410.0	*	410.0	410.3	0.3
195	19,456	80.0	406.0	4.7	412.1	*	412.1	413.0	0.9
197	19,670	70.0	322.0	5.9	413.6	*	413.6	414.4	0.8
Swift Creek Tributary No. 7A (Basin 20, Stream 25)									
018	1,820	134.0	243.0	5.7	356.4 ¹	*	349.9	349.9	0.0
023	2,311	88.0	309.0	5.0	356.4 ¹	*	354.4	354.9	0.5
029	2,874	146.0	1328.0	1.9	361.7	*	361.7	362.5	0.8
031	3,117	100.0	800.0	3.1	361.7	*	361.7	362.5	0.8
Sycamore Creek (Basin 18, Stream 6)									
002	161	125.0	1016.0	8.6	244.6 ¹	*	238.3	239.1	0.8
015	1,479	366.0	2098.0	3.7	244.6 ¹	*	240.6	241.6	1.0
025	2,547	61.0	480.0	7.0	244.6 ¹	*	241.1	242.1	1.0
036	3,567	61.0	504.0	5.7	245.1	*	245.1	246.1	1.0
046	4,550	40.0	348.0	8.3	247.8	*	247.8	248.8	1.0
056	5,554	53.0	433.0	6.7	251.1	*	251.1	252.0	0.9
065	6,519	52.0	389.0	7.4	254.4	*	254.4	255.0	0.6
075	7,548	67.0	356.0	9.6	257.9	*	257.9	257.9	0.0
085	8,529	65.0	522.0	5.4	260.8	*	260.8	261.3	0.5
097	9,713	43.0	290.0	9.8	263.9	*	263.9	264.5	0.6
107	10,691	48.0	331.0	8.5	268.6	*	268.6	269.2	0.6
115	11,527	73.0	256.0	12.5	272.9	*	272.9	272.9	0.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Sycamore Creek (Basin 18, Stream 6)									
126	12,588	53.0	421.0	6.6	279.8	*	279.8	280.2	0.4
135	13,539	42.0	411.0	6.9	283.5	*	283.5	283.9	0.4
144	14,380	46.0	439.0	6.5	286.5	*	286.5	287.3	0.8
156	15,627	50.0	319.0	8.7	291.4	*	291.4	291.6	0.2
168	16,771	59.0	359.0	7.7	296.1	*	296.1	296.2	0.1
178	17,776	45.0	384.0	7.2	301.0	*	301.0	301.0	0.0
188	18,760	395.0	4705.0	0.7	321.0	*	321.0	321.0	0.0
201	20,115	528.0	4753.0	0.7	321.0	*	321.0	321.0	0.0
215	21,477	180.0	1202.0	4.5	321.1	*	321.1	321.1	0.0
226	22,558	60.0	535.0	6.0	324.5	*	324.5	324.5	0.0
241	24,136	704.0	10749.0	0.4	341.5	*	341.5	341.5	0.0
257	25,688	589.0	8691.0	0.5	341.5	*	341.5	341.5	0.0
270	27,029	827.0	6158.0	1.3	341.5	*	341.5	341.5	0.0
283	28,298	462.0	2157.0	6.1	341.9	*	341.9	341.9	0.0
294	29,398	517.0	2542.0	5.5	343.7	*	343.7	343.7	0.0
310	30,995	262.0	2201.0	4.9	350.7	*	350.7	351.6	0.9
321	32,059	400.0	4010.0	3.3	356.4	*	356.4	356.8	0.4
330	32,994	344.0	2541.0	4.2	356.8	*	356.8	357.3	0.5
340	34,010	216.0	1411.0	6.8	358.1	*	358.1	358.8	0.7
349	34,944	33.0	318.0	7.2	361.0	*	361.0	362.0	1.0
357	35,732	33.0	306.0	7.5	363.9	*	363.9	364.3	0.4
374	37,388	178.0	1178.0	4.3	371.5	*	371.5	371.9	0.4
384	38,389	97.0	535.0	6.5	373.1	*	373.1	373.9	0.8
389	38,852	73.0	437.0	9.5	375.0	*	375.0	375.5	0.5
403	40,322	54.0	409.0	5.4	381.4	*	381.4	382.2	0.8
412	41,200	100.0	366.0	12.9	384.8	*	384.8	385.0	0.2
420	42,024	124.0	648.0	5.0	389.8	*	389.8	390.7	0.9
430	42,998	106.0	490.0	9.2	393.9	*	393.9	394.5	0.6
442	44,202	127.0	531.0	10.5	399.4	*	399.4	400.1	0.7
450	45,001	78.0	474.0	8.3	404.1	*	404.1	404.9	0.8
460	46,002	78.0	419.0	8.6	409.9	*	409.9	410.6	0.7
470	46,999	107.0	495.0	9.7	416.7	*	416.7	417.0	0.3
482	48,241	82.0	501.0	3.9	426.1	*	426.1	427.1	1.0
492	49,206	62.0	231.0	7.8	434.5	*	434.5	435.4	0.9
502	50,249	34.0	150.0	8.6	443.3	*	443.3	444.1	0.8
Terrible Creek (Basin 22, Stream 19)									
013	1,251	590.0	2390.0	3.1	241.9 ¹	*	237.4	238.3	0.9
028	2,796	410.0	1774.0	4.3	241.9 ¹	*	241.7	242.2	0.5
043	4,299	400.0	1575.0	3.8	245.7	*	245.7	246.2	0.5
055	5,529	410.0	1527.0	6.4	247.9	*	247.9	248.8	0.9
067	6,718	320.0	1451.0	5.1	251.2	*	251.2	251.8	0.6

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Terrible Creek (Basin 22, Stream 19)									
084	8,354	360.0	1784.0	5.1	255.4	*	255.4	256.3	0.9
098	9,755	330.0	1305.0	5.5	259.4	*	259.4	259.9	0.5
106	10,594	229.0	1127.0	7.9	263.4	*	263.4	263.8	0.4
110	10,992	250.0	1397.0	6.0	264.8	*	264.8	265.0	0.2
115	11,451	250.0	1890.0	5.4	267.7	*	267.7	267.9	0.2
125	12,461	390.0	1214.0	6.8	268.3	*	268.3	268.9	0.6
134	13,375	220.0	971.0	7.2	271.6	*	271.6	271.9	0.3
144	14,396	210.0	809.0	8.0	275.7	*	275.7	276.4	0.7
154	15,388	240.0	1182.0	5.6	281.7	*	281.7	282.0	0.3
168	16,800	310.0	1233.0	5.1	283.8	*	283.8	284.6	0.8
184	18,355	210.0	798.0	6.7	290.3	*	290.3	291.0	0.7
196	19,629	280.0	1189.0	4.4	295.8	*	295.8	296.6	0.8
209	20,879	230.0	937.0	5.3	300.9	*	300.9	301.7	0.8
222	22,150	220.0	917.0	5.5	305.6	*	305.6	306.4	0.8
230	23,010	445.0	4790.0	0.6	326.5 ²	*	323.9	324.0	0.1
233	23,274	260.0	1865.0	2.0	326.5 ²	*	324.0	324.0	0.0
243	24,277	500.0	4715.0	0.7	326.5 ²	*	324.0	324.1	0.1
253	25,327	310.0	1240.0	4.6	326.5 ²	*	324.0	324.1	0.1
267	26,657	215.0	810.0	6.2	327.4	*	327.4	328.3	0.9
285	28,533	190.0	726.0	6.2	334.2	*	334.2	334.9	0.7
298	29,780	145.0	630.0	7.6	339.4	*	339.4	340.2	0.8
303	30,257	180.0	939.0	4.6	342.0	*	342.0	342.3	0.3
314	31,431	135.0	646.0	7.7	347.2	*	347.2	347.9	0.7
328	32,770	70.0	230.0	10.8	354.0	*	354.0	354.3	0.3
339	33,852	43.0	109.0	4.6	364.1	*	364.1	365.0	0.9
353	35,252	50.0	140.0	3.1	377.3	*	377.3	377.3	0.0
359	35,912	65.0	127.0	4.4	381.9	*	381.9	382.0	0.1
362	36,210	55.0	309.0	1.5	388.6	*	388.6	389.2	0.6
364	36,409	50.0	264.0	1.7	388.6	*	388.6	389.3	0.7
Toms Creek (Basin 7, Stream 1)									
026	2,596	195.0	672.0	3.0	198.4 ¹	*	193.2	193.5	0.3
039	3,923	82.0	333.0	6.2	202.0	*	202.0	202.0	0.0
051	5,094	120.0	882.0	2.9	207.7	*	207.7	208.0	0.3
063	6,315	100.0	434.0	7.1	213.8	*	213.8	214.0	0.2
079	7,907	160.0	727.0	4.3	219.5	*	219.5	219.9	0.4
086	8,566	100.0	411.0	6.1	222.3	*	222.3	222.6	0.3
088	8,817	50.0	280.0	7.6	223.8	*	223.8	224.0	0.2
092	9,247	435.0	3972.0	0.4	233.2	*	233.2	233.2	0.0
102	10,201	140.0	832.0	1.9	233.3	*	233.3	233.3	0.0
109	10,900	180.0	1436.0	1.1	244.8	*	244.8	245.0	0.2
115	11,515	355.0	1628.0	1.2	244.9	*	244.9	245.1	0.2

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Toms Creek (Basin 7, Stream 1)									
122	12,201	75.0	506.0	2.2	249.1	*	249.1	249.3	0.2
131	13,142	250.0	475.0	3.2	249.4	*	249.4	250.1	0.7
145	14,541	126.0	177.0	8.1	257.6	*	257.6	258.2	0.6
158	15,775	220.0	344.0	2.5	263.5	*	263.5	263.6	0.1
166	16,624	107.0	194.0	4.7	270.5	*	270.5	270.6	0.1
174	17,414	50.0	161.0	9.0	281.2	*	281.2	281.9	0.7
Tributary to Big Branch Tributary No. 1 (Basin 30, Stream 8)									
006	563	49.0	286.0	5.0	232.2	*	232.2	232.3	0.1
012	1,162	26.0	114.0	11.9	237.4	*	237.4	237.8	0.4
021	2,137	53.0	227.0	7.1	249.7	*	249.7	249.7	0.0
032	3,156	39.0	178.0	7.3	258.5	*	258.5	258.8	0.3
039	3,927	29.0	100.0	11.3	265.0	*	265.0	265.0	0.0
Turkey Creek (Basin 18, Stream 5)									
005	452	64.0	412.0	11.4	244.6 ¹	*	239.1	239.7	0.6
014	1,441	49.0	289.0	11.9	246.4	*	246.4	246.4	0.0
025	2,519	85.0	586.0	6.7	253.4	*	253.4	254.2	0.8
035	3,474	68.0	590.0	6.3	255.4	*	255.4	256.3	0.9
047	4,659	93.0	397.0	10.0	260.3	*	260.3	261.2	0.9
056	5,594	67.0	493.0	8.1	264.1	*	264.1	265.1	1.0
066	6,581	94.0	697.0	6.7	268.6	*	268.6	269.1	0.5
076	7,577	52.0	468.0	7.7	274.4	*	274.4	275.4	1.0
085	8,534	62.0	458.0	3.5	277.2	*	277.2	278.1	0.9
096	9,596	63.0	319.0	4.9	283.1	*	283.1	284.0	0.9
106	10,610	33.0	181.0	6.2	290.0	*	290.0	291.0	1.0
116	11,623	31.0	170.0	6.0	297.1	*	297.1	297.9	0.8
122	12,226	24.0	89.0	7.7	303.3	*	303.3	304.2	0.9
134	13,352	312.0	3037.0	0.6	333.2	*	333.2	333.2	0.0
141	14,074	299.0	3096.0	0.6	333.3	*	333.3	333.3	0.0
154	15,353	44.0	286.0	10.0	337.5	*	337.5	338.3	0.8
167	16,726	18.0	89.0	12.3	347.7	*	347.7	348.1	0.4
Turkey Creek (Basin 18, Stream 23)									
009	884	280.0	856.0	2.8	303.9	*	303.9	303.9	0.0
010	1,030	261.0	770.0	3.1	304.6	*	304.6	304.8	0.2
018	1,846	157.0	733.0	3.3	309.4	*	309.4	310.1	0.7
023	2,279	116.0	575.0	4.2	311.5	*	311.5	312.3	0.8
027	2,733	210.0	833.0	2.9	313.8	*	313.8	314.3	0.5
036	3,638	240.0	887.0	1.7	316.3	*	316.3	316.7	0.4
038	3,832	170.0	902.0	1.7	319.2	*	319.2	320.2	1.0
042	4,160	110.0	691.0	2.2	322.1	*	322.1	322.5	0.4
447	4,652	115.0	574.0	2.6	322.5	*	322.5	323.4	0.9
054	5,375	140.0	562.0	2.7	324.3	*	324.3	325.3	1.0

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Unnamed Tributary to Austin Creek									
002	163	51.0	137.0	2.9	264.2 ¹	*	262.7	262.9	0.2
005	465	27.0	96.0	4.2	265.1	*	265.1	265.5	0.4
008	789	17.0	78.0	5.1	267.9	*	267.9	268.3	0.4
012	1,171	23.0	49.0	8.1	272.2	*	272.2	272.2	0.0
Upper Barton Creek (Basin 16, Stream 1)									
122	12,212	462.0	1122.0	3.3	265.5 ¹	*	249.6	249.6	0.0
137	13,691	269.0	1231.0	5.8	265.5 ¹	*	255.9	256.3	0.4
146	14,601	276.0	1573.0	4.4	265.5 ¹	*	259.0	259.3	0.3
161	16,147	220.0	900.0	7.1	265.5 ¹	*	261.7	262.1	0.4
169	16,863	123.0	711.0	8.2	265.5 ¹	*	264.4	264.9	0.5
174	17,364	310.0	1520.0	5.1	266.2	*	266.2	266.5	0.3
183	18,347	310.0	883.0	7.4	267.9	*	267.9	268.6	0.7
196	19,606	160.0	770.0	7.7	272.5	*	272.5	273.2	0.7
203	20,296	130.0	614.0	9.8	276.0	*	276.0	276.5	0.5
218	21,753	130.0	672.0	8.0	282.5	*	282.5	283.0	0.5
221	22,119	66.0	711.0	7.5	287.9	*	287.9	288.8	0.9
228	22,774	202.0	1545.0	4.1	288.9	*	288.9	289.8	0.9
235	23,472	140.0	778.0	7.5	289.4	*	289.4	290.1	0.7
241	24,090	120.0	677.0	8.1	291.4	*	291.4	292.0	0.6
251	25,118	300.0	1287.0	5.1	293.4	*	293.4	294.4	1.0
264	26,415	239.0	738.0	8.7	297.4	*	297.4	298.2	0.8
274	27,408	175.0	676.0	7.9	302.0	*	302.0	302.3	0.3
279	27,886	110.0	725.0	4.6	304.9	*	304.9	305.6	0.7
281	28,102	250.0	1195.0	3.3	305.3	*	305.3	306.0	0.7
283	28,314	210.0	933.0	4.3	305.4	*	305.4	306.1	0.7
289	28,931	150.0	536.0	6.9	307.2	*	307.2	307.6	0.4
298	29,789	150.0	580.0	7.4	311.1	*	311.1	311.5	0.4
305	30,479	120.0	542.0	7.3	314.1	*	314.1	314.9	0.8
312	31,210	144.0	614.0	6.9	316.8	*	316.8	317.7	0.9
318	31,772	71.0	301.0	10.1	320.3	*	320.3	320.4	0.1
327	32,721	110.0	508.0	7.9	326.1	*	326.1	327.0	0.9
335	33,544	50.0	347.0	9.2	331.4	*	331.4	331.8	0.4
343	34,258	34.0	262.0	10.8	335.0	*	335.0	335.9	0.9
351	35,102	62.0	350.0	7.6	339.4	*	339.4	340.4	1.0
355	35,518	45.0	221.0	10.8	342.6	*	342.6	342.8	0.2
360	35,966	65.0	216.0	11.8	346.3	*	346.3	346.5	0.2
364	36,366	60.0	264.0	9.9	349.7	*	349.7	350.4	0.7
369	36,917	81.0	312.0	8.7	353.1	*	353.1	353.8	0.7
374	37,421	62.0	459.0	5.5	359.8	*	359.8	360.4	0.6
382	38,213	40.0	167.0	13.7	363.3	*	363.3	364.0	0.7

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Utley Creek									
014	1,352	280.0	856.0	7.2	232.3 ¹	*	227.4	227.8	0.4
028	2,789	335.0	1443.0	3.6	232.3 ¹	*	231.5	231.7	0.2
039	3,948	160.0	756.0	7.4	235.2	*	235.2	235.9	0.7
051	5,100	160.0	824.0	6.8	239.2	*	239.2	240.0	0.8
056	5,551	404.0	3374.0	1.5	246.1	*	246.1	247.1	1.0
068	6,802	170.0	978.0	5.4	246.7	*	246.7	247.7	1.0
083	8,306	190.0	771.0	6.5	251.6	*	251.6	252.6	1.0
094	9,394	140.0	570.0	6.8	258.2	*	258.2	258.5	0.3
102	10,225	100.0	543.0	8.9	262.2	*	262.2	262.6	0.4
106	10,570	60.0	523.0	5.5	275.8	*	275.8	275.9	0.1
119	11,926	245.0	1543.0	2.7	275.9	*	275.9	276.5	0.6
130	13,032	109.0	430.0	8.7	278.3	*	278.3	278.9	0.6
142	14,152	145.0	637.0	6.2	283.8	*	283.8	284.5	0.7
154	15,420	100.0	429.0	8.2	291.0	*	291.0	291.5	0.5
166	16,593	200.0	494.0	9.2	296.0	*	296.0	296.6	0.6
179	17,909	100.0	441.0	10.2	309.6	*	309.6	309.8	0.2
190	18,999	112.0	470.0	10.8	320.9	*	320.9	321.0	0.1
203	20,266	125.0	795.0	4.9	330.9	*	330.9	331.9	1.0
Walnut Creek (Basin 30, Stream 1)									
004	382	170.0	1979.0	7.9	172.7 ¹	*	168.6	169.3	0.7
013	1,294	161.0	2214.0	8.5	172.7 ¹	*	170.4	170.6	0.2
026	2,618	550.0	7991.0	4.4	172.7 ¹	*	171.3	172.0	0.7
035	3,509	675.0	8863.0	4.0	172.7 ¹	*	171.5	172.2	0.7
056	5,586	750.0	8241.0	4.0	172.7 ¹	*	172.1	172.8	0.7
065	6,523	840.0	8636.0	4.3	172.7 ¹	*	172.4	173.2	0.8
074	7,369	885.0	7854.0	4.7	172.8	*	172.8	173.5	0.7
088	8,822	700.0	5298.0	6.9	174.1	*	174.1	174.8	0.7
102	10,212	650.0	4823.0	7.7	176.0	*	176.0	176.7	0.7
113	11,316	1020.0	7658.0	5.5	177.5	*	177.5	178.2	0.7
125	12,524	455.0	3505.0	3.2	178.9	*	178.9	179.6	0.7
135	13,517	570.0	3137.0	7.4	179.5	*	179.5	180.1	0.6
145	14,463	680.0	4304.0	5.5	180.6	*	180.6	181.5	0.9
161	16,081	475.0	2710.0	6.8	182.7	*	182.7	183.7	1.0
179	17,873	450.0	3094.0	8.1	187.5	*	187.5	188.3	0.8
185	18,529	300.0	2483.0	8.5	189.5	*	189.5	190.5	1.0
202	20,157	310.0	2535.0	7.9	192.5	*	192.5	193.5	1.0
204	20,419	69.0	921.0	9.7	194.3	*	194.3	194.3	0.0
218	21,820	420.0	4117.0	5.2	196.6	*	196.6	197.5	0.9
226	22,613	550.0	5430.0	3.7	198.0	*	198.0	198.7	0.7
240	23,968	500.0	4404.0	6.1	199.0	*	199.0	199.7	0.7
253	25,322	700.0	6552.0	4.2	200.9	*	200.9	201.5	0.6

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Walnut Creek (Basin 30, Stream 1)									
267	26,655	730.0	6685.0	4.2	201.5	*	201.5	202.1	0.6
281	28,068	900.0	4957.0	6.9	202.4	*	202.4	203.1	0.7
297	29,660	500.0	2879.0	8.3	205.1	*	205.1	205.5	0.4
306	30,626	490.0	3980.0	4.7	208.5	*	208.5	208.5	0.0
321	32,076	1050.0	7494.0	3.9	209.2	*	209.2	209.7	0.5
332	33,200	800.0	7704.0	3.8	213.8	*	213.8	214.5	0.7
346	34,554	775.0	6248.0	4.2	214.7	*	214.7	215.3	0.6
358	35,811	375.0	2153.0	11.0	215.5	*	215.5	216.2	0.7
367	36,681	189.0	2055.0	6.6	220.8	*	220.8	221.2	0.4
378	37,840	590.0	5510.0	5.2	221.8	*	221.8	222.5	0.7
393	39,255	1000.0	9618.0	3.6	223.1	*	223.1	224.0	0.9
405	40,532	1000.0	9482.0	3.3	223.7	*	223.7	224.6	0.9
417	41,683	1050.0	7699.0	4.6	224.4	*	224.4	225.3	0.9
428	42,807	805.0	6013.0	3.4	226.8	*	226.8	227.8	1.0
432	43,240	695.0	4698.0	6.5	227.2	*	227.2	228.1	0.9
438	43,800	115.0	1317.0	10.6	231.1	*	231.1	231.1	0.0
445	44,484	150.0	2670.0	3.5	236.4	*	236.4	236.4	0.0
450	45,004	460.0	6223.0	3.2	236.5	*	236.5	236.6	0.1
460	46,020	155.0	1208.0	5.2	236.3	*	236.3	236.8	0.5
472	47,215	275.0	2619.0	3.9	237.9	*	237.9	238.3	0.4
483	48,333	225.0	1848.0	5.4	238.7	*	238.7	239.3	0.6
493	49,266	66.0	727.0	9.0	241.3	*	241.3	242.1	0.8
496	49,578	52.0	864.0	5.3	243.6	*	243.6	244.5	0.9
508	50,828	180.0	1344.0	8.2	245.2	*	245.2	245.9	0.7
521	52,135	425.0	2396.0	6.6	246.3	*	246.3	247.2	0.9
533	53,255	153.0	1580.0	6.4	253.7	*	253.7	253.7	0.0
545	54,483	625.0	3845.0	5.4	254.4	*	254.4	254.6	0.2
552	55,194	550.0	3615.0	3.3	255.7	*	255.7	256.6	0.9
561	56,138	670.0	3882.0	5.4	256.4	*	256.4	257.3	0.9
575	57,464	370.0	1580.0	10.6	261.1	*	261.1	261.4	0.3
582	58,217	375.0	2189.0	7.3	263.1	*	263.1	263.6	0.5
587	58,735	246.0	1867.0	3.9	266.7	*	266.7	267.1	0.4
591	59,090	135.0	1127.0	7.1	267.3	*	267.3	267.7	0.4
600	60,004	590.0	11361.0	0.4	286.2	*	286.2	286.2	0.0
614	61,410	1595.0	26445.0	0.3	286.2	*	286.2	286.2	0.0
635	63,477	562.0	5954.0	1.4	286.2	*	286.2	286.2	0.0
654	65,396	370.0	1806.0	16.3	286.7	*	286.7	287.3	0.6
663	66,333	325.0	2201.0	3.2	290.2	*	290.2	290.8	0.6
677	67,676	230.0	1285.0	7.3	291.1	*	291.1	291.7	0.6
684	68,370	275.0	1156.0	5.5	293.6	*	293.6	293.6	0.0
698	69,811	385.0	1601.0	6.0	296.7	*	296.7	297.1	0.4

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Walnut Creek (Basin 30, Stream 1)									
712	71,155	310.0	1083.0	8.2	301.0	*	301.0	301.5	0.5
726	72,558	75.0	385.0	10.1	305.4	*	305.4	305.6	0.2
730	73,039	34.0	305.0	10.9	309.6	*	309.6	309.8	0.2
736	73,594	935.0	16120.0	0.2	349.6	*	349.6	349.7	0.1
751	75,107	998.0	16604.0	0.4	349.6	*	349.6	349.7	0.1
759	75,907	1267.0	27698.0	0.3	349.6	*	349.6	349.8	0.2
770	76,980	790.0	15526.0	0.5	349.8	*	349.8	349.9	0.1
772	77,185	1005.0	21689.0	0.3	351.7	*	351.7	351.7	0.0
780	77,976	1027.0	16684.0	0.4	351.7	*	351.7	351.7	0.0
789	78,870	923.0	10828.0	0.7	351.7	*	351.7	351.7	0.0
800	79,982	418.0	4460.0	2.1	351.6	*	351.6	351.7	0.1
809	80,932	425.0	3128.0	5.4	352.0	*	352.0	352.5	0.5
819	81,911	120.0	1365.0	4.1	357.6	*	357.6	358.2	0.6
829	82,918	185.0	1036.0	8.6	358.7	*	358.7	359.5	0.8
840	83,960	185.0	914.0	8.6	363.2	*	363.2	363.9	0.7
853	85,273	150.0	785.0	8.5	369.4	*	369.4	369.6	0.2
864	86,395	180.0	768.0	8.9	374.0	*	374.0	374.7	0.7
870	87,049	85.0	831.0	6.2	381.8	*	381.8	381.9	0.1
877	87,709	260.0	1471.0	5.7	382.7	*	382.7	383.2	0.5
884	88,406	133.0	1406.0	4.3	391.2	*	391.2	391.2	0.0
897	89,713	233.0	1534.0	6.4	391.7	*	391.7	391.9	0.2
910	91,034	240.0	828.0	12.9	395.0	*	395.0	395.0	0.0
920	91,980	290.0	1582.0	6.1	399.9	*	399.9	400.5	0.6
936	93,565	210.0	931.0	9.2	404.3	*	404.3	405.1	0.8
940	93,965	185.0	918.0	5.2	405.8	*	405.8	406.8	1.0
945	94,459	79.0	896.0	4.1	415.0	*	415.0	415.0	0.0
957	95,692	436.0	1084.0	6.4	415.7	*	415.7	415.7	0.0
966	96,615	160.0	552.0	11.5	421.1	*	421.1	421.9	0.8
976	97,577	170.0	969.0	6.3	429.4	*	429.4	430.2	0.8
987	98,678	119.0	583.0	6.2	435.8	*	435.8	436.7	0.9
994	99,365	45.0	606.0	2.9	445.1	*	445.1	445.9	0.8
1002	100,249	70.0	419.0	6.9	445.5	*	445.5	446.5	1.0
1012	101,180	30.0	174.0	10.2	451.6	*	451.6	452.2	0.6
West Fork Mine Creek (Basin 18, Stream 33)									
000	0	250.0	3125.0	6.4	279.4	*	279.4	280.3	0.9
005	467	66.0	728.0	12.0	280.8	*	280.8	281.8	1.0
012	1,184	225.0	1985.0	6.7	283.8	*	283.8	284.8	1.0
021	2,142	95.0	801.0	10.6	288.2	*	288.2	288.6	0.4
036	3,634	115.0	591.0	15.0	293.5	*	293.5	293.7	0.2
Whealers Creek (Basin 10, Stream 25)									
024	2,426	165.0	616.0	7.4	236.6	*	236.6	237.4	0.8
032	3,202	185.0	684.0	6.1	239.6	*	239.6	240.5	0.9

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Wheelers Creek (Basin 10, Stream 25)									
035	3,490	160.0	1491.0	3.0	247.9	*	247.9	248.2	0.3
047	4,652	125.0	643.0	6.6	248.5	*	248.5	249.1	0.6
051	5,066	60.0	328.0	10.4	249.1	*	249.1	250.1	1.0
052	5,191	78.0	407.0	10.1	251.9	*	251.9	252.6	0.7
066	6,568	160.0	679.0	6.2	256.5	*	256.5	257.4	0.9
080	8,005	120.0	326.0	10.1	264.3	*	264.3	264.9	0.6
089	8,916	100.0	478.0	6.8	274.3	*	274.3	274.6	0.3
092	9,246	105.0	331.0	11.3	276.6	*	276.6	277.3	0.7
095	9,538	160.0	913.0	4.0	283.5	*	283.5	284.2	0.7
White Oak Creek									
088	8,804	588.0	4690.0	1.3	237.8 ¹	*	233.7	234.7	1.0
096	9,645	790.0	6444.0	1.0	237.8 ¹	*	234.3	235.3	1.0
105	10,545	1065.0	7654.0	0.8	237.8 ¹	*	234.6	235.6	1.0
119	11,886	950.0	5187.0	1.2	237.8 ¹	*	235.4	236.3	0.9
125	12,466	815.0	4803.0	1.3	237.8 ¹	*	236.0	236.9	0.9
130	12,997	630.0	3846.0	1.6	237.8 ¹	*	236.6	237.6	1.0
136	13,579	575.0	2153.0	2.9	238.3	*	238.3	238.9	0.6
144	14,352	650.0	3201.0	2.0	241.5	*	241.5	242.2	0.7
153	15,279	850.0	4492.0	1.4	243.2	*	243.2	244.2	1.0
161	16,061	740.0	4414.0	1.4	244.2	*	244.2	245.2	1.0
166	16,580	375.0	2745.0	2.3	245.1	*	245.1	245.9	0.8
170	17,015	650.0	4265.0	1.5	245.9	*	245.9	246.7	0.8
177	17,735	575.0	3139.0	2.0	246.7	*	246.7	247.6	0.9
204	20,398	800.0	6665.0	0.9	252.4	*	252.4	253.3	0.9
214	21,358	1000.0	7989.0	0.8	252.6	*	252.6	253.6	1.0
224	22,380	1125.0	7176.0	0.9	253.0	*	253.0	254.0	1.0
233	23,262	850.0	4034.0	1.5	253.6	*	253.6	254.6	1.0
242	24,179	715.0	3550.0	1.7	255.3	*	255.3	256.3	1.0
252	25,168	385.0	2505.0	2.4	257.8	*	257.8	258.7	0.9
261	26,093	620.0	4506.0	1.3	259.5	*	259.5	260.5	1.0
266	26,576	800.0	5007.0	1.2	259.9	*	259.9	260.9	1.0
272	27,225	785.0	4464.0	1.3	260.5	*	260.5	261.5	1.0
276	27,648	670.0	3621.0	1.6	261.0	261.2	261.0	261.9	0.9
280	27,975	650.0	3605.0	1.4	261.4	261.7	261.4	262.4	1.0
287	28,726	725.0	3709.0	1.4	262.2	262.4	262.2	263.2	1.0
294	29,394	620.0	2792.0	1.8	263.2	263.4	263.2	264.1	0.9
301	30,052	525.0	2276.0	2.2	265.1	265.3	265.1	266.1	1.0
312	31,246	320.0	1520.0	2.2	268.3	268.6	268.3	268.9	0.6
317	31,679	200.0	1244.0	2.7	269.0	269.4	269.0	270.0	1.0
White Oak Creek (Basin 19, Stream 1)									
270	27,011	320.0	1342.0	5.1	224.9	*	224.9	225.8	0.9

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
White Oak Creek (Basin 19, Stream 1)									
285	28,468	300.0	1352.0	3.9	226.7	*	226.7	227.5	0.8
300	30,010	270.0	1210.0	5.7	229.8	*	229.8	230.8	1.0
318	31,778	265.0	1082.0	6.7	235.2	*	235.2	235.3	0.1
335	33,468	200.0	935.0	7.7	237.9	*	237.9	238.2	0.3
346	34,604	210.0	823.0	9.0	240.5	*	240.5	241.0	0.5
355	35,512	170.0	822.0	5.7	244.3	*	244.3	244.7	0.4
367	36,701	255.0	1198.0	4.2	251.0	*	251.0	251.1	0.1
380	38,044	194.0	1136.0	4.3	251.5	*	251.5	251.9	0.4
393	39,272	220.0	825.0	5.6	253.3	*	253.3	254.2	0.9
402	40,220	225.0	756.0	3.7	255.9	*	255.9	256.4	0.5
415	41,487	230.0	790.0	4.6	258.0	*	258.0	258.8	0.8
425	42,491	126.0	899.0	3.6	265.8	*	265.8	266.1	0.3
432	43,244	180.0	853.0	3.5	266.1	*	266.1	266.8	0.7
440	43,985	119.0	990.0	2.5	271.2	*	271.2	272.0	0.8
451	45,106	270.0	1183.0	2.7	271.7	*	271.7	272.6	0.9
460	45,967	84.0	798.0	3.3	282.3	*	282.3	282.3	0.0
470	46,975	150.0	615.0	4.0	282.6	*	282.6	283.5	0.9
480	48,001	171.0	398.0	4.7	288.0	*	288.0	288.4	0.4
White Oak Creek (Basin 26, Stream 1)									
010	993	1125.0	4111.0	2.4	232.3 ¹	*	223.1	223.9	0.8
042	4,192	940.0	3203.0	3.7	232.3 ¹	*	227.4	227.9	0.5
077	7,707	535.0	2145.0	6.9	232.3 ¹	*	232.2	233.2	1.0
086	8,609	595.0	1707.0	8.0	234.2	*	234.2	234.5	0.3
101	10,058	800.0	3074.0	5.1	236.8	*	236.8	237.4	0.6
125	12,534	844.0	2816.0	4.6	240.0	*	240.0	240.9	0.9
154	15,439	563.0	2305.0	5.7	246.1	*	246.1	246.8	0.7
168	16,793	350.0	1383.0	1.8	248.2	*	248.2	249.1	0.9
174	17,414	165.0	414.0	6.0	250.4	*	250.4	250.6	0.2
190	19,023	130.0	328.0	7.5	256.2	*	256.2	257.0	0.8
206	20,562	119.0	340.0	5.8	264.4	*	264.4	264.7	0.3
212	21,160	103.0	484.0	3.7	269.6	*	269.6	269.8	0.2
224	22,410	128.0	401.0	4.8	273.7	*	273.7	274.0	0.3
236	23,553	114.0	279.0	7.5	280.8	*	280.8	281.2	0.4
246	24,629	37.0	109.0	6.0	290.3	*	290.3	290.5	0.2
251	25,140	75.0	447.0	3.3	301.5	*	299.2	299.6	0.4
260	26,031	66.0	205.0	6.8	302.4	*	302.4	302.9	0.5
269	26,929	40.0	134.0	10.0	310.9	*	310.9	311.8	0.9
Wildcat Branch (Basin 30, Stream 4)									
027	2,709	470.0	4464.0	1.0	245.4	246.0	245.4	245.5	0.1
040	3,954	114.0	1239.0	2.6	250.8	251.1	250.8	251.2	0.4
051	5,101	200.0	916.0	3.0	253.1	253.5	253.1	253.8	0.7
058	5,806	70.0	1016.0	2.7	260.3	264.2	260.3	260.4	0.1

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Wildcat Branch (Basin 30, Stream 4)									
067	6,729	120.0	1215.0	2.3	260.9	264.6	260.9	261.4	0.5
077	7,667	140.0	885.0	1.7	261.2	264.7	261.2	262.0	0.8
085	8,524	100.0	432.0	2.9	263.2	265.1	263.2	264.2	1.0
090	9,047	80.0	271.0	4.5	268.1	268.8	268.1	268.2	0.1
093	9,337	60.0	286.0	4.3	269.8	270.8	269.8	269.8	0.0
103	10,295	20.0	135.0	8.7	275.2	275.8	275.2	275.9	0.7
110	10,989	47.0	361.0	1.3	293.7	298.2	293.7	293.7	0.0
113	11,313	70.0	1376.0	0.3	311.1	314.8	311.1	311.1	0.0
118	11,761	100.0	1596.0	0.3	311.1	314.8	311.1	311.1	0.0
Yates Branch (Basin 20, Stream 13)									
009	937	365.0	1840.0	4.8	242.3	*	242.3	242.6	0.3
021	2,061	540.0	1953.0	3.4	243.3	*	243.3	243.9	0.6
036	3,564	705.0	2467.0	3.0	244.8	*	244.8	245.5	0.7
050	4,962	595.0	2000.0	3.9	247.3	*	247.3	248.2	0.9
059	5,886	380.0	1454.0	6.7	249.6	*	249.6	250.2	0.6
068	6,785	380.0	1920.0	5.2	251.7	*	251.7	252.7	1.0
076	7,635	250.0	1476.0	6.4	253.6	*	253.6	254.5	0.9
090	8,954	200.0	2022.0	3.7	259.5	*	259.5	259.7	0.2
096	9,636	200.0	1593.0	4.8	259.8	*	259.8	260.1	0.3
104	10,446	189.0	1307.0	5.9	261.4	*	261.4	261.8	0.4
119	11,906	365.0	2548.0	2.8	262.5	*	262.5	263.0	0.5
130	12,997	490.0	2600.0	3.3	262.8	*	262.8	263.5	0.7
144	14,400	250.0	1198.0	4.4	264.5	*	264.5	265.0	0.5
159	15,926	180.0	644.0	7.8	268.7	*	268.7	269.1	0.4
173	17,344	100.0	638.0	6.6	273.2	*	273.2	273.8	0.6
185	18,477	200.0	706.0	6.9	275.4	*	275.4	276.1	0.7
195	19,473	100.0	478.0	7.9	279.7	*	279.7	280.4	0.7
206	20,572	846.0	5978.0	0.7	295.9	*	295.9	295.9	0.0
215	21,517	497.0	1904.0	2.2	295.9	*	295.9	295.9	0.0
225	22,483	282.0	1692.0	4.4	300.0	*	300.0	300.6	0.6
234	23,407	181.0	1149.0	5.9	301.8	*	301.8	302.6	0.8
242	24,244	212.0	1174.0	5.8	304.4	*	304.4	305.3	0.9
251	25,114	284.0	1486.0	5.4	307.2	*	307.2	308.2	1.0
261	26,144	182.0	681.0	10.9	309.3	*	309.3	310.1	0.8
273	27,253	194.0	825.0	8.8	315.6	*	315.6	316.5	0.9
281	28,109	234.0	1128.0	6.9	320.2	*	320.2	321.2	1.0
292	29,242	231.0	1048.0	7.1	326.2	*	326.2	326.9	0.7
302	30,182	98.0	388.0	12.7	330.4	*	330.4	330.4	0.0
311	31,142	96.0	404.0	12.8	338.0	*	338.0	338.3	0.3
321	32,084	145.0	807.0	7.7	348.6	*	348.6	349.2	0.6
331	33,120	224.0	1111.0	6.0	355.7	*	355.7	355.9	0.2
341	34,091	123.0	585.0	9.8	359.9	*	359.9	360.1	0.2

Table 22 - Floodway Data

Floodway Source		Floodway			Water Surface Elevation				
Cross Section	Distance (Feet Above Mouth)	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	1% Annual Chance Future Water-Surface Elevation	Without Floodway	With Floodway	Increase
Yates Branch (Basin 20, Stream 13)									
350	35,036	228.0	663.0	8.9	366.6	*	366.6	367.6	1.0
359	35,911	120.0	570.0	9.2	374.7	*	374.7	375.5	0.8
369	36,949	90.0	425.0	11.3	383.7	*	383.7	384.6	0.9
379	37,855	95.0	375.0	11.6	391.9	*	391.9	392.6	0.7
393	39,253	62.0	311.0	10.4	404.8	*	404.8	405.2	0.4

¹Elevation includes backwater effects

²Elevation derived using reservoir storage routing in HEC-HMS

³Elevation includes flooding controlled by Swift Creek

* Future conditions not computed for this stream

6.4 Coastal Flood Hazard Mapping

This section is not applicable to this FIS project.

Table 23 “Summary of Coastal Transect Mapping Considerations” is not applicable to Wake County.

7.0 Revising the FIS

7.1 Letters of Map Amendment and Letters of Map Revision - Based on Fill

LOMAs and LOMR-Fs are documents issued by FEMA that officially remove a property and/or a structure from a Special Flood Hazard Area (SFHA), if data supporting the removal are submitted. LOMAs and LOMR-Fs are generally determinations regarding areas that are too small to be shown on a FIRM panel; consequently, the changes they describe become official without revising the FIRM or the FIS Report.

NFIP regulations require that the lowest adjacent grade (the lowest ground touching the structure) be at or above the 1% annual chance flood elevation for a LOMA to be issued. Currently, there is no fee for FEMA's review of a LOMA request, but the requester of a LOMA is responsible for providing all the information needed for the review, which may include structure and/or property elevations certified by a licensed land surveyor or professional engineer. Therefore, LOMA requesters may need to retain the services of a land surveyor or engineer.

A LOMA cannot be used for property on which fill has been placed. For those situations, a LOMR-F must be used. As a participant in the NFIP, a local government must adopt ordinances that meet the minimum Federal floodplain management standards, which are outlined in Section 60.3 of the NFIP regulations. For a number of reasons, these ordinances generally vary from community to community. Nonetheless, because the placement of fill within the floodplain can affect flood hazards in the surrounding area, additional information is needed before FEMA can process a LOMR-F request. Among the data required for a LOMR-F is the community acknowledgment form. This form is FEMA's assurance that all appropriate Federal, State, and local floodplain management requirements have been met. Furthermore, NFIP regulations require that the lowest adjacent grade (the lowest ground touching the structure) be at or above the 1% annual chance flood elevation for a LOMR-F to be issued removing the structure from the floodplain. Because LOMR-F requests are the result of changed physical conditions rather than limitations of scale or topographic definition, FEMA charges a fee for the review of a LOMR-F request. As with the LOMA, the requester of a LOMR-F is responsible for providing all supporting information, including structure and/or property elevation data.

In cases where property owners plan to add fill in the SFHA, NFIP regulations require plans and technical information to be submitted for review by FEMA before construction takes place. FEMA will issue a conditional LOMR-F stating how flood hazards would change and what portions of the property, if any, would remain in the SFHA if the project were built according to the submitted plans.

The issuance of a LOMA or LOMR-F ends the property owner's obligation to purchase flood insurance as a condition of Federal or federally backed financing. However, the property owner's mortgage company maintains the prerogative to require flood insurance as a condition of providing financing. Before attempting to obtain a LOMA or LOMR-F, property owners are advised to consult their mortgage companies regarding this policy. Even if the mortgage company indicates that it will require flood insurance if a LOMA or LOMR-F is issued, it may be advantageous for property owners to request a LOMA or LOMR-F because flood insurance premiums are lower for properties removed from the SFHA than for properties that remain within the SFHA.

For additional information regarding LOMAs, LOMR-Fs, conditional LOMR-Fs, or current application fees, please call the FEMA Map Information eXchange (FMIX) toll-free information line at 1-877-FEMA MAP (1-877-336-2627).

7.2 Letters of Map Revision

A Letter of Map Revision (LOMR) is a document issued by FEMA and the NCFMP that revises an FIS Report and/or FIRM. A LOMR is used to change flood risk zones, floodplain and/or floodway delineations, flood elevations, or planimetric features such as road systems or corporate limits. A LOMR provides FEMA and the NCFMP with a cost-effective means of revising the FIS information without physically changing and reprinting the map or report itself. A portion of the FIRM panel or FIS Report showing the revised information is issued with the LOMR. The LOMR is sent to all affected communities and is archived in the communities' NFIP map repository for

public reference.

In cases where a proposed project (such as construction in the 1% annual chance floodplain) would result in a significant rise in 1% annual chance water-surface elevations, NFIP regulations require the community to submit plans and technical information for review by FEMA and the NCFMP before construction takes place. This assures communities participating in the NFIP that proposed projects meet minimum NFIP requirements. The result of FEMA and the NCFMP reviews is documented in a conditional LOMR.

For additional information regarding LOMRs, conditional LOMRs, or current application fees, please call the FEMA Map Assistance Center toll-free information line at 1-877-FEMA MAP (1-877-336-2627) or the NCFMP at 919-715-5711.

7.3 Physical Map Revisions

Physical Map Revisions (PMRs) are processed to incorporate information concerning conditions present in the community that are not reflected in the FIS, and involve distributing republished FISs that supersede the most current NFIP data in the community repository. PMRs may be initiated by a request from a community resident or agency, or FEMA may initiate a PMR to incorporate one or more LOMRs, to reflect significant changes in corporate limits, to correct errors, or to update flood hazards to match new information from an adjacent community’s FIS. Due to the costs associated with updating and distributing FISs, map revisions will be processed as LOMRs rather than PMRs whenever possible. For more information regarding PMRs, please contact the FEMA Map Information eXchange (FMIX) toll-free information line at 1-877-FEMA MAP (1-877-336-2627), the FEMA Regional Office at the address listed on the Notice to Flood Insurance Study Users page at the front of this report, or the NCFMP at 919-715-5711.

7.4 Contracted Restudies

The NFIP provides for a periodic review and restudy of flood hazards in a given community. FEMA accomplishes this through a national mapping needs assessment process that assigns priorities and allocates funds to sponsor or subsidize new flood hazard analyses used to update FIS Reports. For map maintenance restudies within the state of North Carolina, scoping will be performed by county approximately 2.5-3.5 years after the previous effective date. Scoping will focus on streams with restudy needs within those previously effective counties rather than on full countywide restudies. A restudy refers specifically to updating or reevaluating engineering analyses that were performed for a flood mapping project that directly impact BFEs and/or flood hazard boundary extents or analysis of previously unstudied flood prone areas. Restudy project evaluation triggers and prioritization values are an essential component of the map maintenance program. For more information regarding NCFMP-contracted restudies, please contact the NCFMP at 919-715-5711 or at www.ncfloodmaps.com. For more information regarding FEMA-contracted restudies, please contact the FEMA Map Information eXchange (FMIX) toll-free information line at 1-877-FEMA MAP(1-877-336-2627) or the FEMA Regional Office at the address listed on the Notice to Flood Insurance Study Users page at the front of this report.

7.5 Map Revision History

The current FIRM is a subset of the Statewide FIRM, showing flood hazard information for the entire geographic area of Wake County. Previously, separate Flood Hazard Boundary Maps (FHBMs), Flood Boundary and Floodway Maps (FBFMs), and/or FIRMs were prepared for each identified flood prone jurisdiction within the county. Historical data relating to the NFIP maps prepared for each community prior to and including the 5/2/2006 North Carolina Statewide FIRM, which includes Wake County, are presented in Table 24, “Map Revision History.”

Information pertaining to revised and unrevised flood hazards for each jurisdiction within Wake County has been compiled into this FIS. Therefore, this FIS supersedes all previously printed FIS Reports, FHBMs, FIRMs, and/or FBFMs for all of the incorporated and unincorporated jurisdictions within Wake County.

Table 24 - Map Revision History

Community	Initial Identification Date	Initial FIRM Effective Date	FIRM Revision Date
CITY OF RALEIGH	6/28/1974	8/15/1978	04/16/2013
CITY OF RALEIGH	6/28/1974	8/15/1978	05/02/2006
CITY OF RALEIGH	6/28/1974	8/15/1978	07/19/2022
TOWN OF APEX	3/3/1992	3/3/1992	05/02/2006

Table 24 - Map Revision History

Community	Initial Identification Date	Initial FIRM Effective Date	FIRM Revision Date
TOWN OF APEX	3/3/1992	3/3/1992	07/19/2022
TOWN OF CARY	6/28/1974	7/17/1978	05/02/2006
TOWN OF CARY	6/28/1974	7/17/1978	02/02/2007
TOWN OF CARY	6/28/1974	7/17/1978	07/19/2022
TOWN OF FUQUAY-VARINA	4/11/1975	11/1/1978	05/02/2006
TOWN OF FUQUAY-VARINA	4/11/1975	11/1/1978	10/03/2006
TOWN OF FUQUAY-VARINA	4/11/1975	11/1/1978	07/19/2022
TOWN OF GARNER	7/19/1974	7/3/1978	05/02/2006
TOWN OF GARNER	7/19/1974	7/3/1978	07/19/2022
TOWN OF HOLLY SPRINGS	3/3/1992	3/3/1992	05/02/2006
TOWN OF HOLLY SPRINGS	3/3/1992	3/3/1992	02/02/2007
TOWN OF HOLLY SPRINGS	3/3/1992	3/3/1992	07/19/2022
TOWN OF KNIGHTDALE	4/12/1974	8/1/1978	05/02/2006
TOWN OF KNIGHTDALE	4/12/1974	8/1/1978	07/19/2022
TOWN OF MORRISVILLE	10/29/1976	11/1/1978	05/02/2006
TOWN OF MORRISVILLE	10/29/1976	11/1/1978	07/19/2022
TOWN OF ROLESVILLE	3/3/1992	3/3/1992	05/02/2006
TOWN OF ROLESVILLE	3/3/1992	3/3/1992	07/19/2022
TOWN OF WAKE FOREST	3/15/1974	7/3/1978	05/02/2006
TOWN OF WAKE FOREST	3/15/1974	7/3/1978	04/16/2013
TOWN OF WAKE FOREST	3/15/1974	7/3/1978	07/19/2022
TOWN OF WENDELL	3/8/1974	6/1/1978	05/02/2006
TOWN OF WENDELL	3/8/1974	6/1/1978	07/19/2022
TOWN OF ZEBULON	3/8/1974	7/3/1978	05/02/2006
TOWN OF ZEBULON	3/8/1974	7/3/1978	04/16/2013
TOWN OF ZEBULON	3/8/1974	7/3/1978	07/19/2022
WAKE COUNTY	11/15/1978	11/15/1978	01/16/2004
WAKE COUNTY	11/15/1978	11/15/1978	12/02/2005
WAKE COUNTY	11/15/1978	11/15/1978	05/02/2006
WAKE COUNTY	11/15/1978	11/15/1978	10/03/2006
WAKE COUNTY	11/15/1978	11/15/1978	02/02/2007
WAKE COUNTY	11/15/1978	11/15/1978	04/16/2007
WAKE COUNTY	11/15/1978	11/15/1978	04/16/2013
WAKE COUNTY	11/15/1978	11/15/1978	11/17/2017
WAKE COUNTY	11/15/1978	11/15/1978	12/06/2019
WAKE COUNTY	11/15/1978	11/15/1978	07/19/2022

8.0 Study Contracting and Community Coordination

8.1 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.

This FIS revises and updates the previous countywide FIS for the geographic area of Wake County and Incorporated Areas. Table 25, "Authority and Acknowledgments," includes information for the previous countywide FIS and for this revision. This table also includes information for the single-jurisdiction FISs published for each community included in this countywide FIS (if available) as compiled from their previously printed FIS Reports.

Table 25 — Authority and Acknowledgments

Community	FIS Dated	Study Contracted By	Data Source	Contract or IAA Number	Work Completed In
WAKE COUNTY	7/19/2022	NCFMP	NCFMP	EMA-2009-CA-5933	1/2022
WAKE COUNTY	4/16/2013	NCFMP	NCFMP	EMA-2009-CA-5993	4/2009
WAKE COUNTY	5/2/2006	NCFMP	NCFMP	19-00017	12/2004

This FIS Report was produced through a unique cooperative partnership between the State of North Carolina and FEMA. The State of North Carolina, through FEMA’s Cooperating Technical Partner (CTP) Initiative, has become the first Cooperating Technical State (CTS) and will assume primary ownership of the NFIP FIRM panels for all North Carolina communities. This role has traditionally been fulfilled by FEMA. The North Carolina Floodplain Mapping Program is conducting flood hazard analyses and producing updated, digital FIRM panels. The hydrologic and hydraulic analyses and the FIRM panels for the initial statewide mapping for Wake County were produced by NCFMP under contract with the State of North Carolina and issued on effective 12/6/2019. For this revision, the hydrologic and hydraulic analyses and the FIRM panels were produced by NCFMP, under contract with the State of North Carolina.

8.2 Consultation Coordination Officer's Meetings/Scoping Meetings

For each FIS produced during the initial phase of statewide, an Initial Scoping Meeting was held with representatives from FEMA, the county, the incorporated communities, and the State of North Carolina. A Final Scoping meeting was held to review the Draft Basin Plan and finalize the streams to be studied by detailed methods. This information was then used to create the Final Basin Plan. For map maintenance revisions, only one scoping meeting was held to identify the streams to be newly studied by detailed methods, redelineated, or to be studied by limited detailed methods. This information was then used to create the Map Maintenance Plan.

The historical dates of the Initial and Final Scoping Meetings held during the first round of statewide mapping for Wake County are shown in Table 26, "Scoping Meetings." Meetings held for the map maintenance revision are also included below for Wake County.

Table 26 — Scoping Meetings

Community	River Basin	Initial Scoping Date	Attended By	Final Scoping Date	Attended By
WAKE COUNTY	CAPE FEAR	11/28/2000 11/29/2000 11/30/2000	Representatives of the State, FEMA, Dewberry, and the county	4/23/2001	State, FEMA, Dewberry, Raleigh, Apex, Cary, Garner, Holly Springs, Knightdale, Morrisville, Rolesville, Wake Forest, Wendell, Zebulon and Wake County.
WAKE COUNTY	NEUSE	11/28/2000 11/29/2000 11/30/2000	Representatives of the State, FEMA, Dewberry, and the county	4/23/2001	State, FEMA, Dewberry, Raleigh, Apex, Cary, Garner, Holly Springs, Knightdale, Morrisville, Rolesville, Wake Forest, Wendell, Zebulon
WAKE COUNTY	NEUSE/CAPE FEAR	NA	NA	5/27/2008	NCFMP, Wake County unincorporated areas, Wake County incorporated communities, Dewberry

Consultation Coordination Officer's Meetings are held in each county to disseminate and review the FIS Report and FIRM panels. This

meeting is required by FEMA. Public Participation Meetings are not required by FEMA, but provide an opportunity to review and discuss the FIS Report and FIRM panels for each jurisdiction in a public setting. The dates for the consultation coordination officer's and public participation meetings are shown in Table 27, "Consultation Coordination Officer's and Public Participation Meetings."

Table 27 — Consultation Coordination Officer's and Public Participation Meetings

Community	For FIS Dated	Meeting Location	Preliminary Meeting Date	Attended By	Public Meeting Date	Attended By
WAKE COUNTY	7/19/2022	Raleigh, NC	5/13/2015	Representatives of Wake County Unincorporated Areas, Wake County Incorporated Communities, Harnett County, Johnston County and NCFMP	10/5/2015-Holly Springs 10/7/15 Raleigh 10/8/15-Wake Forest 10/15/15-Cary	Representatives of Wake County Unincorporated Areas, Wake County Incorporated Communities, NCFMP representatives and the Public,
WAKE COUNTY	4/16/2013	Louisburg	7/15/2010	Representatives of the State, Franklin County, Granville County Wake County incorporated Communities, and Dewberry	8/10/2010	Representatives of the State, Franklin, Granville, Vance, Wake Counties, and Incorporated Communities and Dewberry.
WAKE COUNTY	5/2/2006	Raleigh	7/14/2004	Representatives of the county, the State, FEMA, Dewberry, and Watershed Concepts	5/11/2004	Representatives from Wake County, Wake County incorporated communities, the NCFMP and the Public

9.0 Guide to Additional Information

Information concerning the pertinent data used in the preparation of this FIS Report can be obtained by submitting an order with any required payment to the FEMA Engineering Library. For more information on this process, see <http://www.fema.gov>.

The Map Repositories table below lists locations where FIRMs for Wake County can be viewed. Please note that the maps at these locations are for reference only and are not for distribution. Also, please note that only the maps for the community listed in the table are available at that particular repository. A user may need to visit another repository to view maps from an adjacent community.

Table 28 — Map Repositories

Community	Address	City	State	Zip Code
Town of Holly Springs	Engineering Department, 128 South Main Street	Holly Springs	NC	27540
Town of Knightdale	Town Hall, 950 Steeple Square Court	Knightdale	NC	27545
Town of Morrisville	Town Hall, 100 Town Hall Drive	Morrisville	NC	27560
City of Raleigh	Engineering Services Department, One Exchange Plaza, Suite 706	Raleigh	NC	27601
Town of Rolesville	Planning Department, 502 Southtown Circle	Rolesville	NC	27571
Town of Wake Forest	Planning Department, 301 South Brooks Street, 3rd Floor	Wake Forest	NC	27587
Town of Wendell	Planning Department, 15 East 4th Street	Wendell	NC	27591
Town of Zebulon	Planning Department, 1003 North Arendell Avenue	Zebulon	NC	27597
Town of Apex	Engineering Department, 73 Hunter Street	Apex	NC	27502
Town of Cary	Stormwater Services Division, 316 North Academy Street	Cary	NC	27513
Town of Fuquay-Varina	Engineering Department, 134 North Main Street	Fuquay-Varina	NC	27526
Town of Garner	Engineering Department, 900 7th Avenue	Garner	NC	27529
Wake County	Wake County Environmental Services Department, Waverly F. Akins Office Building, 337 South Salisbury Street	Raleigh	NC	27601

9.1 Additional Information

All FIRM panels created for the State of North Carolina are produced in a seamless statewide format; however, FIS Reports are produced for individual counties.

Copies of FIRM panels are available for a nominal fee. To obtain a copy of the current flood map for a specific community, contact the FEMA Map Service Center at 1-800-358-9616. To facilitate the processing of your request, please review the current flood map on file at your local community repository and obtain the panel number in which you are interested. If necessary, users may also order a FIRM Index from the Map Service Center to determine the appropriate panel numbers. The Map Service Center also accepts orders for the Community Status Book and the Flood Insurance Manual. The FIS Report, FIRM panels, and digital data used to produce the FIRM panels are available online at www.ncfloodmaps.com.

Information concerning the data used in the preparation of this FIS, contained in an Engineering Study Data Package, may be obtained by contacting the FEMA Regional Office at the address listed on the Notice to Flood Insurance Study Users page at the front of this report.

Table 29, "Additional Information" is not applicable in Wake County.

10.0 Appendix

10.1 Bibliography

All bibliography and reference information associated within this Flood Insurance Study are maintained and accessible within the geodatabase structure and associated metadata. Users requiring more specific information should contact the North Carolina Floodplain Mapping Program (NCFMP) at www.ncfloodmaps.com under the Contacts menu:

NC Floodplain Mapping Program

4218 Mail Service Center

Raleigh, NC 27699-4218

Phone: 919-715-5711

Fax: 919-715-0408

Email: frishelp@ncdps.gov