

# FLOOD INSURANCE STUDY



VOLUME 1 OF 2

## DORCHESTER COUNTY, SOUTH CAROLINA AND INCORPORATED AREAS

Community Name	Community Number
DORCHESTER COUNTY (INCORPORATED AREAS)	450068
HARLEYVILLE, TOWN OF <sup>1</sup>	450070
REEVESVILLE, TOWN OF	450218
RIDGEVILLE, TOWN OF	450071
ST. GEORGE, TOWN OF	450072
SUMMERVILLE, TOWN OF	450073

<sup>1</sup>No Special Flood Hazard Areas



**Revised  
Preliminary  
November 13,  
2015**

EFFECTIVE DATE:



Federal Emergency Management Agency  
FLOOD INSURANCE STUDY NUMBER  
45035CV001A

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 repository. It is advisable to contact the community repository for any additional data.

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

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

<u>Old Zone(s)</u>	<u>New Zone</u>
A1 through A30	AE
B	X
C	X

## TABLE OF CONTENTS - Volume 1

	<u>Page</u>
1.0 <u>INTRODUCTION</u>	1
1.1 Purpose of Study	1
1.2 Authority and Acknowledgments	1
1.3 Coordination	3
2.0 <u>AREA STUDIED</u>	4
2.1 Scope of Study	4
2.2 Community Description	11
2.3 Principal Flood Problems	11
2.4 Flood Protection Measures	12
3.0 <u>ENGINEERING METHODS</u>	12
3.1 Hydrologic Analyses	12
3.2 Hydraulic Analyses	20
3.3 Vertical Datum	28
4.0 <u>FLOODPLAIN MANAGEMENT APPLICATIONS</u>	28
4.1 Floodplain Boundaries	29
4.2 Floodways	29
5.0 <u>INSURANCE APPLICATIONS</u>	71
6.0 <u>FLOOD INSURANCE RATE MAP</u>	71
7.0 <u>OTHER STUDIES</u>	72
8.0 <u>LOCATION OF DATA</u>	72
9.0 <u>REFERENCES</u>	74

Table of Contents - Volume 1 - continued

	<u>Page</u>
<u>FIGURES</u>	
Figure 1 – Floodway Schematic .....	31

TABLES

Table 1 – Initial and Final CCO Meetings .....	4
Table 2 – Flooding Sources Studied by Detailed Methods.....	4
Table 3 – Scope of Study.....	5
Table 4 – Letters of Map Revision.....	10
Table 5 – Summary of Discharges.....	15
Table 6 – Summary of Stillwater Elevations.....	20
Table 7 – Manning’s “n” Values .....	24
Table 8 – Floodway Data Table .....	32
Table 9 – Limited Detailed Flood Hazard Data Table.....	47
Table 10 – Community Map History.....	73

Table of Contents - Volume 2

EXHIBITS

Exhibit 1 - Flood Profiles

Ashley River	Panels 01P – 05P
Chandler Bridge Creek	Panels 06P – 08P
Coosaw Creek	Panels 09P
Eagle Creek	Panels 10P – 12P
Edisto River	Panels 13P – 19P
Fishburne Creek/Scotts Branch	Panels 20P – 22P
Four Hole Swamp	Panels 23P – 24P
Green Bay Branch	Panels 25P – 29P
Hurricane Branch	Panels 30P – 33P
Negro Branch	Panels 34P – 36P
Platt Branch	Panels 37P – 39P
Polk Swamp	Panels 40P – 41P
Round Savannah Tributary/Rosom Hill Tributary	Panels 42P – 45P
Rumphs Hill Creek	Panels 46P – 48P
Sawmill Branch	Panels 49P – 56P
Sawpit Creek	Panel 57P
Stanley Branch	Panels 58P – 60P
Timothy Creek	Panel 61P
Tributary 1 to Round Savannah Tributary	Panels 62P – 63P
Tributary 2 to Round Savannah Tributary	Panel 64P
Tributary 1 to Watson Hill Tributary/Legend Oaks Tributary	Panel 65P

Table of Contents - Volume 2 – Continued

EXHIBITS - continued

Exhibit 1 – Flood Profiles - continued

Tributary No. 1	Panel 66P
Tributary No. 2	Panel 67P
Tributary No. 3	Panel 68P
Tributary No. 4	Panel 69P
Tributary No. 5	Panel 70P
Tributary No. 6	Panel 71P
Unnamed Tributary to Ashley River	Panels 72P – 73P
Watson Hill Tributary	Panel 74P

Exhibit 2 - Flood Insurance Rate Map Index  
Flood Insurance Rate Map

FLOOD INSURANCE STUDY  
DORCHESTER COUNTY, SOUTH CAROLINA AND INCORPORATED AREAS

1.0 INTRODUCTION

1.1 Purpose of Study

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

Please note that the town of Summerville is geographically located in Berkeley, Charleston, and Dorchester Counties. The town of Summerville is included in its entirety in this FIS report.

Please note that on the effective date of this study, the town of Harleyville has no Special Flood Hazard Areas (SFHAs). This does not preclude future determinations of SFHAs that could be necessitated by changed conditions affecting the community (i.e. annexation of new lands) or the availability of new scientific or technical data regarding flood hazards.

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

1.2 Authority and Acknowledgments

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

This FIS was prepared to include all jurisdictions within Dorchester County into a countywide format FIS. Information on the authority and acknowledgments for each jurisdiction with a previously printed FIS report included in this countywide FIS is shown below.

Dorchester County,

Unincorporated Areas:

The hydrologic and hydraulic analyses for the Ashley River, from the Charleston County boundary to a point approximately 5.4 miles upstream; Chandler Bridge Creek, from Miles Jamison Road to the upstream county boundary; Coosaw Creek, from

Dorchester Road to 2,400 feet southeast of Parlor Road; Eagle Creek (upstream of Chandler Bridge Creek), from the confluence of Chandler Bridge Creek to the county boundary; Edisto River, from the downstream county boundary to State Road 29; Four Hole Swamp, from its mouth to U.S. Highway 78; Polk Swamp, from U.S. Highway 15 to State Road 16; Sawpit Creek, from the county boundary to a point approximately 0.5 mile upstream of Dorchester Road; Stanley Branch, from State Road 58 to the county boundary; Tributary No. 2, from its mouth to Dorchester Road; and Tributary No. 3, from its mouth to approximately 1 mile upstream of its mouth, were performed by Engineering Methods and Applications for the Federal Emergency Management Agency (FEMA) , under Contract No. EMW-90-C-3095. This study was completed in April 1991 (Reference 1).

The hydrologic and hydraulic analyses for Green Bay Branch, from its confluence with the Ashley River to approximately 0.3 miles downstream of West 5<sup>th</sup> North Street; Hurricane Branch, from Tutor Road to an unpaved road approximately 0.74 miles upstream of Claussen Street; Negro Branch, from State Road 22 (Orangeburg Road) to White Boulevard; Platt Branch, from State Road 22 (Orangeburg Road) to Lake Drive; Rumphs Hill Creek, from U.S. Highway 78 to Lawrence Drive; Unnamed Tributary to Ashley River, from State Road 13 to a point approximately 1,500 feet upstream of the confluence of Tributary No. 1; and Tributary Nos. 1, 4, 5 and 6 were taken from a Natural Resources Conservation Service (NRCS) floodplain management study.

The hydrologic and hydraulic analyses for Eagle Creek, from the confluence with the Ashley River to the confluence of Chandler Bridge Creek; and Chandler Bridge Creek, from the confluence with Eagle Creek to Miles Jamison Road, were prepared by the U.S. Army Corps of Engineers (USACE), Charleston District, in 1988.

The hydrologic and hydraulic analyses for the Ashley River, from a point approximately 5.4 miles upstream of the Charleston County boundary to the Berkeley County boundary; Coosaw Creek, from the confluence with the Ashley River to Dorchester Road; Sawmill Branch, for its entire length within the county; Unnamed Tributary to Ashley River, from the confluence with the Ashley River to the State Road 13; Hurricane Branch, from the confluence with the

Ashley River Tutor Road; Rumphs Hill Creek, from the confluence with the Ashley River to U.S. Highway 78; Negro Branch, from the confluence with Rumphs Hill Creek to State Road 22 (Orangeburg Road); Platt Branch, from the confluence with the Ashley River to State Road 22 (Orangeburg Road); and Stanley Branch, from the confluence with the Ashley River to State Road 58, were previously performed by Law Engineering Testing Company in the original Flood Insurance Study for FEMA under Contract No. H-4753. That work was completed in July 1980.

Summerville, Town of: The hydrologic and hydraulic analyses for the December 4, 1985, FIS report were performed by the Law Engineering Testing Company for the Federal Insurance Administration, under contract No. H-4753. The study was completed in January 1980 (Reference 2).

There are no previous FIS reports published for the towns of Harleyville, Reevesville, Ridgeville, and St Georges therefore, the previous authority and acknowledgments for these communities are not included in this FIS. These communities may not appear in the Community Map History Table (Section 8.0).

For this countywide FIS, most of the existing detailed floodplains were redelineated and additional hydrologic and hydraulic analyses were performed by URS Corporation (URS) for the state of South Carolina Department of Natural Resources (SCDNR) (Cooperating Technical Partner), under South Carolina Map Modernization Initiative Project No: MICS 18447. This study was completed in January 2012.

Base map information shown on the FIRM was provided in digital format by U.S. Geological Survey (USGS), National Geodetic Survey, Census Bureau, Dorchester County and the South Carolina Office of Research and Statistics. This information was developed at scales of 1"=2000', 1"=1000' and 1"=500'. Users of this FIRM should be aware that minor adjustments may have been made to specific base map features.

The coordinate system used for the production of this FIRM is Universal Transverse Mercator (UTM Zone 17), North American Datum of 1983 (NAD 83). Corner coordinates shown on the FIRM are in latitude and longitude referenced to UTM projection, NAD 83. Differences in the datum and spheroid used in the production of FIRMs for adjacent counties may result in slight positional differences in map features at the county boundaries. These differences do not affect the accuracy of information shown on the FIRM.

### 1.3 Coordination

Consultation Coordination Officer's (CCO) meetings may be held for each jurisdiction in this countywide FIS. An initial CCO meeting is held typically with representatives of FEMA, the community, and the study contractor to explain the

nature and purpose of an FIS, and to identify the streams to be studied by detailed methods. A final CCO meeting is held typically with representatives of FEMA, the community, and the study contractor to review the results of the study.

The dates of the pre-countywide initial and final CCO meetings held for the communities within Dorchester County are shown in Table 1, “Initial and Final CCO Dates.”

**Table 1 – Initial and Final CCO Meetings**

<u>Community Name</u>	<u>Initial CCO Date</u>	<u>Final CCO Date</u>
Dorchester County (Unincorporated Areas)	June 20, 1989	July 30, 1992
Town of Summerville	April, 1978	July 24, 1980

For this countywide FIS, an initial CCO meeting was held on April 19, 2006, and was attended by representatives of Dorchester County; the towns of Harleyville, Reevesville, and St. George; Milone & MacBroom; Thomas & Hutton; URS; and SCNDR.

## 2.0 AREA STUDIED

### 2.1 Scope of Study

This FIS covers the geographic area of Dorchester County, South Carolina.

All or portions of the flooding sources listed in Table 2, “Flooding Sources Studied by Detailed Methods,” were studied by detailed methods. Limits of detailed study are indicated on the Flood Profiles (Exhibit 1) and on the FIRM (Exhibit 2).

**Table 2 – Flooding Sources Studied by Detailed Methods**

Ashley River	Rosom Hill Tributary
Chandler Bridge Creek	Round Savannah Tributary
Coosaw Creek	Rumphs Hill Creek
Eagle Creek	Sawmill Branch
Edisto River	Sawpit Creek
Fishburne Creek	Scotts Branch
Four Hole Swamp	Stanley Branch
Green Bay Branch	Timothy Creek
Hurricane Branch	Tributary 1 to Round
Legend Oaks Tributary	Savannah Tributary
Negro Branch	Tributary 2 to Round
Platt Branch	Savannah Tributary
Polk Swamp	

**Table 2 – Flooding Sources Studied by Detailed Methods - continued**

Tributary 1 to Watson Hill Tributary	Tributary No. 5
Tributary No. 1	Tributary No. 6
Tributary No. 2	Unnamed Tributary to Ashley River
Tributary No. 3	Watson Hill Tributary
Tributary No. 4	

The areas studied by detailed methods were selected with priority given to all known flood hazards and areas of projected development or proposed construction through Dorchester County.

Floodplain boundaries of streams that have been studied previously by detailed methods were re-delineated based on more up-to-date topographic mapping.

For this countywide study, updated or new detailed and limited detailed analyses were performed for the flooding sources listed in Table 3, “Scope of Study.” Limits of studies for the studied streams are shown in Table 3.

**Table 3 – Scope of Study**

<b><u>Stream Name</u></b>	<b><u>Limits of Study</u></b>
	<u>Detailed Study Streams</u>
Chandler Bridge Creek	From the confluence with Eagle Creek to the county boundary.
Coosaw Creek	From approximately 1.4 miles upstream of the confluence with Ashley River to approximately 2.0 miles upstream of the confluence with Ashley River.
Eagle Creek	From the confluence with Ashley River to the county boundary.
Fishburne Creek	From approximately 130 feet downstream of State Highway 165 to approximately 2.170 feet upstream of State Road 84.
Green Bay Branch	From approximately 0.3 downstream of West 5 <sup>th</sup> North Street to approximately 370 feet upstream of Short Street.
Legend Oaks Tributary	From the confluence with Tributary 1 to Watson Hill Tributary to just downstream of Ashley River Road.
Rosom Hill Tributary	From the confluence with Round Savannah Tributary to just downstream of Ashley River Road.
Round Savannah Tributary	From approximately 170 feet downstream of State Highway 165 to the confluence of Rosom Hill Tributary.
Sawmill Branch	From the confluence with Ashley River to approximately 1.1 miles upstream of U.S. Highway 78.
Sawpit Creek	From the county boundary to approximately 300 feet upstream of Dorchester Road
Scotts Branch	From the confluence with Fishburne Creek to the divergence from Rosom Hill Tributary.

**Table 3 – Scope of Study - continued**

<b><u>Stream Name</u></b>	<b><u>Limits of Study</u></b>
<u>Detailed Study Streams - continued</u>	
Tributary 1 to Round Savannah Tributary	From the confluence with Round Savannah Tributary to approximately 16,220 feet upstream.
Tributary 2 to Round Savannah Tributary	From the confluence with Round Savannah Tributary to approximately 9,000 feet upstream.
Tributary 1 to Watson Hill Tributary	From approximately 420 feet downstream of State Highway 165 to the confluence of Legend Oaks Tributary.
Watson Hill Tributary	From approximately 310 feet downstream of State Highway 165 to approximately 3,700 feet upstream.
<u>Limited Detailed Study Streams</u>	
Ashley River Tributary 5	From the confluence with Ashley River to approximately 0.29 mile upstream of Ashley River Road.
Ashley River Tributary 8	From the confluence with Ashley River to approximately 1.2 miles upstream of Ashley River Road.
Ashley River Tributary 8-4	From the confluence with Ashley River Tributary 8 to approximately 0.68 mile upstream of the confluence with Ashley River Tributary 8.
Ashley River Tributary 25-2	From the confluence with Ashley River Tributary 25 to approximately 0.39 mile upstream of confluence with Ashley River Tributary 25.
Ashley River Tributary 27	From the confluence with Ashley River to approximately 0.08 mile upstream of Whispering Trail Road.
Ashley River Tributary 30	From the confluence with Ashley River to Ashley River Road.
Ashley River Tributary 39	From the confluence with Ashley River to approximately 0.18 mile upstream of Dorchester Road.
Ashley River Tributary 44	From the confluence with Ashley River to approximately 0.96 mile upstream of Highway 61.
Ashley River Tributary 44-1	From the confluence with Ashley River Tributary 44 to approximately 0.51 mile upstream of Wright Road.
Ashley River Tributary 45-2	From the confluence with Ashley River to approximately 160 feet upstream of McArn Road.
Bear Branch	From the confluence with Polk Swamp to approximately 0.37 mile upstream of Reeves Street.
Box Branch	From the confluence with Edisto River to approximately 1.9 miles upstream of Wire Road.
Cane Branch	From the confluence with Crawford Branch to upstream side of Taylor Pond Road.
Captains Creek	From the confluence with Ashley River to approximately 1.11 miles upstream of Cummings Chapel Road.
Cattle Creek	From the confluence with Edisto River to approximately 0.47 mile upstream of Interstate 78.

**Table 3 – Scope of Study - continued**

<b><u>Stream Name</u></b>	<b><u>Limits of Study</u></b>
	<u>Limited Detailed Study Streams - continued</u>
Cattle Creek Tributary 3	From the confluence with Cattle Creek to approximately 0.07 mile downstream of Durhams Corner Road.
Cowtail Creek	From the confluence with Polk Swamp to approximately 0.59 mile upstream of Cross Creek Road.
Cowtail Creek Tributary 2	From the confluence with Cowtail Creek to approximately 0.32 mile upstream of Cross Creek Road.
Crawford Branch	From the confluence with Little Walnut Branch to upstream side of Taylor Pond Road.
Dorchester Creek	From the confluence with Sawmill Branch to approximately 0.24 mile upstream of Orangeburg Road.
Edisto River	From approximately 0.23 mile downstream of Stokes Bridge to approximately 21.3 miles upstream of United States Highway 15.
Edisto River Tributary 18	From the confluence with Edisto River to approximately 0.65 mile upstream of Walterboro Road.
Fishburne Creek	From the confluence with Rantowles Creek to approximately 130 feet downstream of State Highway 165.
Fishburne Creek Tributary 2-1	From the confluence with Fishburne Creek Tributary 2 to approximately 0.59 mile upstream of Upper Fork Road.
Fishburne Creek Tributary 2-1-1	From the confluence with Fishburne Creek Tributary 2.1 to approximately 0.2 mile upstream of Unnamed Farm Road.
Fishburne Creek Tributary 5	From the confluence with Unnamed Tributary 30 to approximately 1.08 miles upstream of Summer Road.
Fishburne Creek Tributary 5-1	From the confluence with Fishburne Creek Tributary 5-C to approximately 1.6 miles upstream of Hunt Club Road.
Fishburne Creek Tributary 5-2	From the confluence with Fishburne Creek Tributary 5 to approximately 0.68 mile upstream of Hunt Club Road.
Fishburne Creek Tributary 5-3	From the confluence with Fishburne Creek Tributary 5 to approximately 0.51 mile upstream of Unnamed Road.
Fishburne Creek Tributary 5-4	From the confluence with Fishburne Creek Tributary 5 to approximately 0.57 mile upstream of Hunt Club Road.
Fishburne Creek Tributary 5-4-1	From the confluence with Fishburne Creek Tributary 5-4 to approximately 580 feet upstream of Gettisville Road.
Fishburne Creek Tributary 5-6	From the confluence with Fishburne Creek to approximately 0.67 mile upstream of County Road 163.
Fishburne Creek Tributary 6	From the confluence with Fishburne Creek to approximately to 0.43 miles downstream of Club House Road.
Fishburne Creek Tributary 6-1	From the confluence with Fishburne Creek Tributary 6 to Clubhouse Road.
Fishburne Creek Tributary 10	From the confluence with Fishburne Creek to approximately 0.43 miles upstream of Clubhouse Road.

**Table 3 – Scope of Study - continued**

<b><u>Stream Name</u></b>	<b><u>Limits of Study</u></b>
	<u>Limited Detailed Study Streams - continued</u>
Fishburne Creek Tributary 14	From the confluence with Fishburne Creek to approximately 2.66 miles upstream of Hunt Club Road.
Fishburne Creek Tributary 14-2	From the confluence with Fishburne Creek Tributary 14 approximately 0.44 mile upstream of Hunt Club Road.
Fishburne Creek Tributary 16	From the confluence with Fishburne Creek to approximately 0.76 mile upstream of the confluence with Fishburne Creek.
Fishburne Creek Tributary 17	From the confluence with Fishburne Creek to approximately 1.11 miles upstream of the confluence with Fishburne Creek.
Fishburne Creek Tributary 19	From the confluence with Fishburne Creek to approximately 0.79 mile upstream of the confluence with Fishburne Creek.
Four Hole Swamp	From the US Highway 78 to approximately 2.46 miles upstream of US Highway 15.
Four Hole Swamp Tributary 2	From the confluence with Four Hole Swamp to approximately 0.1 mile upstream of Emma Lane.
Four Hole Swamp Tributary 2.1	From the confluence with Four Hole Swamp Tributary 2 to approximately 0.15 mile upstream of Interstate 26.
Four Hole Swamp Tributary 2.2	From the confluence with Four Hole Swamp to approximately 0.11 mile upstream of Haven Road.
Four Hole Swamp Tributary 8	From the confluence with Four Hole Swamp to approximately 0.5 mile upstream of Interstate 26 East.
Four Hole Swamp Tributary 10	From the confluence with Four Hole Swamp to approximately 0.62 mile upstream of Smith Lane.
Four Hole Swamp Tributary 10.4	From the confluence with Four Hole Swamp Tributary 10 approximately 0.94 mile upstream of Duncan Chapel Road.
Green Bay Branch	Upstream of Short Drive to approximately 0.06 mile upstream of Clemson Drive.
Gum Branch	From the confluence with Indian Field Swamp to approximately 90 feet upstream of Parler Avenue.
Gum Branch Tributary 1	From the confluence with Gum Branch to approximately 0.53 mile upstream of Highway 78.
Gum Branch Tributary 2	From the confluence with Four Hole Swamp Tributary 10 approximately 0.94 mile upstream of Duncan Chapel Road.
Halfway Gut Creek	From the confluence with Four Hole Swamp approximately 0.07 mile upstream of Sandy Pine Lane.
Hurricane Branch	Approximately 0.12 mile downstream of Longleaf Drive to approximately 0.11 miles upstream of Sandy Pine Lane.
Indian Field Swamp	From the confluence with Edisto River approximately 0.68 mile upstream of State Highway 18-16.
Indian Field Swamp Tributary 4	From the confluence with Indian Field Swamp to downstream face of Charleston Highway.

**Table 3 – Scope of Study - continued**

<b><u>Stream Name</u></b>	<b><u>Limits of Study</u></b>
	<u>Limited Detailed Study Streams - continued</u>
Indian Field Swamp Tributary 6	From the confluence with Indian Field Swamp to approximately 1.07 miles upstream of Mt. Zion Road.
Kelly Branch	From the confluence with Stanley Branch to approximately 0.02 mile downstream of Jedburg Road.
Little Walnut Branch	From the confluence with Walnut Branch approximately 0.11 mile upstream of Forest Lane.
Marshall Branch	From the confluence with Walnut Branch approximately 1.96 miles upstream of East Main Street.
McChune Branch	From the county boundary to approximately 340 feet upstream of the county boundary.
McKeown Branch	From the confluence with Captains Creek to approximately 1.05 miles upstream of Cummings Chapel Road.
Negro Branch	From 450 feet downstream of White Boulevard to approximately 0.07 mile upstream of Central Avenue.
Polk Swamp (Downstream)	From the confluence with Indian Field Swamp approximately 0.16 mile upstream of Highway 15.
Polk Swamp (Upstream)	Approximately 0.15 mile downstream of Rigsby Street approximately 1 mile upstream of Reeseville Road.
Polk Swamp Tributary 5	From the confluence with Polk Swamp approximately 0.32 mile upstream of Highway 15.
Polk Swamp Tributary 6	From the confluence with Polk Swamp to approximately 0.31 mile upstream of Legare Road.
Polk Swamp Tributary 8	From the confluence with Polk Swamp to approximately 0.14 mile upstream of Highway S-18-16.
Rantowles Creek	From the county boundary to approximately 2.53 miles upstream of mouth, where it becomes Fishburne Creek.
Raven Hill Tributary	From the confluence of Fishburne Creek to approximately 110 feet downstream of Kreuger Road.
Round Savannah Tributary	From the confluence of Fishburne Creek Tributary to approximately 170 feet downstream of State Highway 165.
Rumphs Hills Creek	From 100 feet downstream of Lawrence Drive to approximately 0.41 mile upstream of Lawrence Drive.
Sawmill Branch Tributary 1	From the confluence with Sawmill Branch to approximately 0.24 mile upstream of Boone Street.
Sawmill Branch Tributary 3	From the confluence with Sawmill Branch to approximately 0.21 mile upstream of Luden Drive.
Scotts Creek	From the confluence with Fishburne Creek to approximately 1.06 miles upstream of Walterboro Road.
Spring Branch	From the confluence with Indian Field Swamp to approximately 2.34 miles upstream of confluence with Indian Field Swamp.

**Table 3 – Scope of Study - continued**

<b><u>Stream Name</u></b>	<b><u>Limits of Study</u></b>
<u>Limited Detailed Study Streams - continued</u>	
Ting Branch	From the confluence with Ashley River Tributary 44 to approximately 0.6 mile upstream of Carter Road.
Tributary 1 to Scotts Creek	From the confluence of Scotts Creek to approximately 0.25 downstream of Ryan Road.
Tributary 1 to Watson Hill Tributary	From the confluence of Watson Hill Tributary to approximately 150 feet downstream of Delmar Highway.
Tributary No 3	Approximately 1.1 mile upstream of confluence with Ashley River to approximately 1.38 miles upstream of confluence with Ashley River.
Tributary No 4	Just downstream of Senrab Boulevard to approximately 0.08 mile upstream of Senrab Boulevard.
Tributary No 5	Just downstream of Orangeburg Road to approximately 0.15 mile upstream of Orangeburg Road.
Unnamed Tributary to Ashley River	Approximately 3.31 miles upstream of confluence with Ashley River to approximately 0.44 mile downstream of Orangeburg Road.
Unnamed Tributary 27	From the county boundary to approximately 0.4 mile downstream of Club Course Drive.
Walnut Branch	From the confluence with Four Hole Swamp to approximately 0.85 mile upstream of Unnamed Farm Road 6.
Walnut Branch Tributary 1	From the confluence with Walnut Branch to approximately 0.07 mile upstream of Harrison Road.
Walnut Branch Tributary 3	From the confluence with Walnut Branch to approximately 260 feet downstream of the dam.
Watson Hill Tributary	From approximately 2.35 miles upstream of confluence with Rantowles Creek to approximately 310 feet downstream of State Highway 165.

This countywide FIS also incorporates the determinations of letters issued by FEMA resulting in map changes (Letter of Map Revision – LOMR), as shown in Table 4, “Letters of Map Revision.”

**Table 4 – Letters of Map Revision**

<b><u>Community</u></b>	<b><u>Case Number</u></b>	<b><u>Project Identifier</u></b>	<b><u>Effective Date</u></b>
Dorchester County Unincorporated Areas	10-04-1595P	Tributary No 2	September 10, 2010
Dorchester County Unincorporated Areas	10-04-6791P	Ashley River	February 14, 2011
Dorchester County Unincorporated Areas	10-04-7426P	Timothy Creek	March 10, 2011
Dorchester County Unincorporated Areas	10-04-8306P	Fishburne Creek	December 29, 2011

## 2.2 Community Description

Dorchester County was established in 1897 from portions of Colleton and Berkeley Counties, South Carolina. The Town of Dorchester was founded in 1697 on the Ashley River by settlers from Dorchester, Massachusetts, for which the county is named. At that time, the Town of Dorchester was about 26 miles from the City of Charleston, South Carolina and 5 miles from the Town of Summerville, South Carolina. The county encompasses 577 square miles with a population of 136,555 in 2010 and is located in the southeastern part of South Carolina (Reference 3). It is bordered on the east by Berkeley County, southeast by Charleston County, southwest by Colleton County, west by Bamberg County, and northwest by Orangeburg County.

The Port of Charleston is approximately 55 miles from the County seat of St. George, and due to the port's success, one of South Carolina's two foreign trade zones is located in Dorchester County. In addition to its close proximity to the port, the intersection of Interstates 95 and 26 is within Dorchester County. Interstate 95 is a major throughway for transporting products on the eastern seaboard, and I-26 is a major trans-state highway connecting the industrial upstate to the exporting coast.

The area slopes moderately from northwest to southeast and has an average elevation of approximately 217 feet above the North American Vertical Datum of 1988 (NAVD88). Dorchester County is defined by the Lower Coastal Plain. The area is very flat and has large marsh areas and several tidal streams. The soils range from sandy clay to sandy loam. The county is drained primarily by the Ashley and Edisto Rivers and their tributaries.

The climate in Southern South Carolina is temperate and rainy. Summer and winter average temperatures range from 80.4 degrees Fahrenheit (°F) to 46.5 degrees Fahrenheit (°F), respectively. Annual average precipitation in the area is 50.3 inches. Precipitation is heaviest during the summer months, and no months have extremely low precipitation.

## 2.3 Principal Flood Problems

Flooding in Dorchester County is usually caused by two distinct sources. Rainfall runoff associated with slow-moving frontal systems, thunderstorms, and tropical storms can cause overflow of streams, ponding, and sheet-flow. Also the sporadic passage of tropical storms and hurricanes through the area can result in flooding from storm surge and tides along the Ashley River.

The largest flood of record occurred in February 1925, when the Edisto River reached an estimated flood stage of 38.0 feet National Geodetic Vertical Datum of 1929 (NGVD). Similar floods occurred in September 1945, with a flood stage of 37.7 feet, and August 1904, with a flood stage of 37.5 feet.

The most major flood event in South Carolina was Hurricane Hugo in September 1989. Although major wind damage was sustained throughout the county, very little flooding occurred.

There have been no major flooding problems with Sawmill Branch within the corporate limits of Summerville since it was channelized. Due to the topography of the watershed, there are isolated problems with ponding and drainage.

Flooding in Dorchester County is caused by many sources such as, but not limited to: The Ashley River, Coosaw Creek, Eagle Creek and Dorchester Creek which can over flow its banks during high tides, heavy rains and the combination of both; and that of The Great Cypress Swamp, The Edisto River, Indian Field Swamp, Polk Swamp, and Cattle Creek which may have flood waters over flowing its banks and swelling into the floodplains during the prominent rain seasons with slow water seepage.

Flooding in these areas, and many others not named, can come with little to no warning due to large amounts of rainfall in a short period of time or can be advised over a period of time from weather alerts of upcoming rain events and tides changes.

#### 2.4 Flood Protection Measures

Sawmill Branch, Eagle Creek, and Chandler Bridge Creek have all been channelized to more efficiently convey flood flows.

### 3.0 ENGINEERING METHODS

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

#### 3.1 Hydrologic Analyses

Hydrologic analyses were carried out to establish the peak discharge-frequency relationships for each flooding source studied in detail affecting the community. For each community within Dorchester County that has a previously printed FIS report, the hydrologic analyses and the methods used to determine peak discharge-frequency relationships for the streams studied by detailed methods are compiled and shown below.

## **Pre-countywide Analyses**

For the December 4, 1985 for the Town of Summerville, two methods of estimating peak flood flows were available for Sawmill Branch. The first method available was used by Charleston District COE in May 1967 and again in 1976 for their studies of Sawmill Branch. Their flows were computed prior to 1967 using regional frequency data from the North Carolina Coastal Plain.

The second method of estimating peak flows comes from the 1975 USGS administrative report "Estimating the Magnitude of Peak Discharges for Selected Flood Frequencies on Small Streams in South Carolina" This report is a regional approach based on multiple regression analysis. This analysis related peak discharge to drainage area, slope, length, precipitation intensity and soils index. Drainage area explained 85 to 90 percent of the variation of the dependent variable, while the other independent variables were not significant.

The Sauer Method was used to adjust the natural flows for the effects of urbanization. This Sauer Method relates the urbanized peak discharge for any return interval to the percentage of area served by storm sewers, percentage of impervious area, the rainfall intensity ratios, and the natural peak discharge.

After careful comparison of the two methods, the USGS method was considered to be a better estimate of the peak flood flows. Ultimately, the USGS method was used for Sawmill Branch in Summerville.

For Chandler Bridge Creek, upstream of Miles Jamison Road; Coosaw Creek, upstream of Dorchester Road; Eagle Creek, upstream of the confluence of Chandler Bridge Creek; the Edisto River; Four Hole Swamp; Polk Swamp; Sawpit Creek; Stanley Branch, from State Road 58 to the county boundary; Tributary No. 2, and Tributary No. 3, discharges for the 10-, 50-, and 100-year floods were determined using U.S. Geological Survey (USGS) regional regression equations with modifications for urbanization. For the Edisto River and Four Hole Swamp, the equations were not modified for urbanization. The 500-year discharges were extrapolated from those of the other floods. The Technical Release No. 55 computer program was used to verify application of the regression equations to the small urban basins.

Drainage basin areas were determined by examining topographic maps and color infrared aerial photography.

Stream gage data were obtained for the Edisto River. These data were used to develop log-Pearson Type III distributions giving additional estimates of the 10-, 50-, 100-, and 500- year discharges at those sites. These discharges were weighted with those calculated from the USGS regional regression equations using established techniques.

Discharges for Eagle Creek, from the confluence with the Ashley River to the confluence of Chandler Bridge Creek, and Chandler Bridge Creek, from the confluence with Eagle Creek to Miles Jamison Road, were determined using the USACE HEC-1 computer program.

Discharges for Fishburne Creek from approximately 130 feet downstream of State Highway 165 to approximately 2,170 feet upstream of State Road 84, Legend Oaks Tributary from the confluence with Tributary 1 to Watson Hill Tributary to just downstream of Ashley River Road, Rosom Hill Tributary from the confluence with Round Savannah Tributary to just downstream of Ashley River Road, Round Savannah Tributary from approximately 170 feet downstream of State Highway 165 to the confluence of Rosom Hill Tributary, Scotts Branch from the confluence with Fishburne Creek to the divergence from Rosom Hill Tributary, Tributary 1 to Round Savannah Tributary from the confluence with Round Savannah Tributary to approximately 16,220 feet upstream, Tributary 2 to Round Savannah Tributary from the confluence with Round Savannah Tributary to approximately 9,000 feet upstream, Tributary 1 to Watson Hill Tributary from approximately 420 feet downstream of State Highway 165 to the confluence of Legend Oaks Tributary, and Watson Hill Tributary from approximately 310 feet downstream of State Highway 165 to approximately 3,700 feet upstream were determined using the USACE HEC-HMS computer program (Reference 4).

For the remaining streams, peak discharges were calculated using a regional approach based on multiple regression analysis. This analysis related peak discharge to drainage area, slope, length, precipitation intensity, and soils index. Drainage area explained 85 to 90 percent of the variation of the dependent variable (peak discharge), while the other independent variables were not found to be significant.

Peak flows were adjusted to account for the effects of urbanization using the Sauer Method. This method relates the peak discharge for any return interval to the percentage of impervious area in the watershed and the average rainfall intensity ratio of the 10-, 50-, and 100-year storms to the 2-year storm.

Land use for each watershed was determined from aerial photographs, topographic maps, and field inspection. The percentage of impervious area for any given residential or commercial land use was obtained from the Technical Release No. 55.

### **Countywide Analyses**

Discharges for the 10-, 2-, 1-, and 0.2-percent annual chance recurrence intervals for all streams studied by limited detail methods and detail methods were determined using USGS regression equations. The calculations used the most recent edition of equations for both rural and urban streams (References 5 and 6)

Gage adjustments were also performed on streams with available gage data per Bulletin 17B guidelines (Reference 7).

Peak discharge-drainage area relationships for the selected recurrence intervals are shown in Table 5. "Summary of Discharges."

**Table 5 – Summary of Discharges**

<u>FLOODING SOURCE AND</u> <u>LOCATION</u>	DRAINAGE AREA (sq.miles)	PEAK DISCHARGES (cfs)			
		% Annual chance			
		<u>10%</u>	<u>2%</u>	<u>1%</u>	<u>0.2%</u>
<b>ASHLEY RIVER</b>					
At U.S. Highway 78	143.1	3,740	6,440	7,990	12,390
At Norfolk Southern Railway	147.4	3,810	6,550	8,210	12,590
At confluence of Rumphs Hill Creek	189.2	4,410	7,570	9,340	14,420
At U.S. Highway 17A	216.3	4,770	8,180	10,070	15,510
At State Highway 165	224.8	4,880	8,370	10,290	15,840
At confluence of Sawmill Branch	250.0	5,200	8,900	10,920	16,780
At confluence of Eagle Creek	263.6	5,360	9,180	11,250	17,260
At county boundary	286.5	7,483	11,587	14,104	18,932
<b>CHANDLER BRIDGE CREEK</b>					
Approximately 875 feet upstream of Judith Drive	3.6	313	568	704	1,086
Approximately 3,850 feet upstream of Jamison Road	4.5	361	654	809	1,246
Approximately 3,000 feet upstream of Ladson Road	5.5	407	737	911	1,402
Approximately 1,250 feet upstream of Lanson Road	6.4	452	816	1,008	1,550
At confluence with Eagle Creek	6.6	462	834	1,030	1,584
<b>COOSAW CREEK</b>					
At mouth	4.3	470	840	1,120	1,850
<b>EAGLE CREEK</b>					
Approximately 15,000 feet upstream of Ave of Oaks	3.2	286	521	646	998
Approximately 13,400 feet upstream of Ave of Oaks	4.3	348	630	780	1,203
Approximately 10,550 feet upstream of Ave of Oaks	5.3	398	720	891	1,372
Just upstream of confluence of Chandler Bridge Creek	5.9	429	775	958	1,474
Approximately 2,825 feet upstream of Dorchester Road	12.8	704	1,261	1,555	2,379
At confluence with Ashley River	13.1	716	1,281	1,580	2,418

**Table 5 – Summary of Discharges - continued**

<u>FLOODING SOURCE AND LOCATION</u>	<u>DRAINAGE AREA (sq.miles)</u>	<u>PEAK DISCHARGES (cfs)</u>			
		<u>% Annual chance</u>			
		<u>10%</u>	<u>2%</u>	<u>1%</u>	<u>0.2%</u>
<b>EDISTO RIVER</b>					
At State Road 29	1,902.8	13,891	20,636	23,603	30,011
At Old Dam Road	2,083.0	14,895	21,795	24,785	31,281
At Givhans Gage	2,730.2	18,498	25,730	28,696	35,265
At the county boundary	2,807.2	18,930	26,181	29,134	35,690
<b>FISHBURNE CREEK</b>					
At State Highway 165	14.1	*	*	1,453	*
Just upstream of confluence of Scotts Branch	9.1	*	*	984	*
<b>FOUR HOLE SWAMP</b>					
At U.S. Highway 78	598.0	6,730	10,760	12,748	16,633
At mouth	643.2	7,020	11,200	13,250	17,282
<b>GREEN BAY BRANCH</b>					
About 560 feet upstream of Thorpe Drive	1.0	136	252	313	488
About 3,900 feet downstream of Orangeburg Road	2.0	213	390	484	750
At Confluence with Ashley River	2.4	240	438	543	840
<b>HURRICANE BRANCH</b>					
At Claussesn Street	0.5	167	296	389	630
At Tutor Road	1.8	310	548	721	1,168
About 0.24 mile downstream of mouth (just downstream of unnamed road)	2.6	370	650	860	1,420
<b>LEGEND OAKS TRIBUTARY</b>					
At confluence with Tributary 1 to Watson Hill Tributary	0.6	*	*	844	*
<b>NEGRO BRANCH</b>					
At White Boulevard	0.3	107	189	249	403
At State Road 13	1.1	228	403	530	859
At Oakwood Drive	1.9	300	540	720	1,190
About 1,100 feet downstream of mouth	2.5	360	630	840	1,390

\* Data not available

**Table 5 – Summary of Discharges - continued**

<u>FLOODING SOURCE AND LOCATION</u>	<u>DRAINAGE AREA (sq.miles)</u>	<u>PEAK DISCHARGES (cfs)</u>			
		<u>% Annual chance</u>			
		<u>10%</u>	<u>2%</u>	<u>1%</u>	<u>0.2%</u>
<b>PLATT BRANCH</b>					
At Lake Drive	0.5	160	283	373	612
At Mallard Lane	1.2	243	429	564	925
At Orangeburg Road	2.8	387	685	901	1,478
About 7,000 feet downstream of mouth	3.8	460	810	1,070	1,740
<b>POLK SWAMP</b>					
At State Road 16	12.6	1,020	1,666	1,976	2,628
At Interstate 95	25.5	1,580	2,539	2,988	3,995
At State Road	31.4	1,796	2,871	3,371	4,516
At U.S. Highway 15	47.9	2,332	3,693	4,492	5,974
<b>ROSOM HILL TRIBUTARY</b>					
At Confluence with Round Savannah Tributary	9.4	*	*	975	*
Just below divergence of Scotts Branch	7.4	*	*	764 <sup>1</sup>	*
Just above divergence of Scotts Branch	7.4	*	*	1,153	*
<b>ROUND SAVANNAH TRIBUTARY</b>					
At State Highway 165	7.2	*	*	1,985	*
<b>RUMPHS HILL CREEK</b>					
At Lawrence Drive	2.3	348	616	810	1,312
At U.S. Highway 78	3.1	406	718	945	1,531
At Remen Boulevard	3.4	430	760	1,000	1,640
At Orangeburg Road	5.7	580	1,020	1,340	2,170
About one mile downstream of mouth	12.0	910	1,580	2,040	3,260

\* Data not available

<sup>1</sup> Discharge decreases in the downstream direction due to divergence of Scotts Branch

**Table 5 – Summary of Discharges - continued**

<u>FLOODING SOURCE AND LOCATION</u>	<u>DRAINAGE AREA (sq.miles)</u>	<u>PEAK DISCHARGES (cfs)</u>			
		<u>% Annual chance</u>			
		<u>10%</u>	<u>2%</u>	<u>1%</u>	<u>0.2%</u>
<b>SAWMILL BRANCH</b>					
Approximately 2,270 feet downstream of Richardson Avenue	10.7	1,008	1,664	2,023	2,767
Approximately 1,200 feet downstream of Carolina Avenue	14.3	1,473	2,378	2,893	3,931
Approximately 3,730 feet downstream of Carolina Avenue	15.1	1,552	2,504	3,046	4,141
Approximately 2,500 feet upstream of Luden Drive	16.3	1,700	2,729	3,320	4,502
Approximately 5,330 feet upstream of Luden Drive	17.7	1,782	2,855	3,475	4,703
Approximately 1,555 feet upstream of Bacons Bridge Road	18.0	1,790	2,867	3,490	4,932
Approximately 2,000 feet upstream of Bacons Bridge Road	18.9	1,870	2,994	3,645	4,932
Approximately 6,150 feet upstream of Bacons Bridge Road	20.4	1,975	3,157	3,844	5,201
Approximately 5,000 feet upstream of Dorchester Road	21.1	2,027	3,235	3,940	5,327
Approximately 2,500 feet upstream of Dorchester Road	22.0	2,100	3,347	4,077	5,511
At confluence with Ashley River	23.0	2,180	3,468	4,225	5,707
<b>SAWPIT CREEK</b>					
At Dorchester Road	0.5	182	312	382	489
At county boundary	1.2	363	596	726	924
<b>SCOTTS BRANCH</b>					
At confluence with Fishburne Creek	0.9	*	*	464	*
At divergence from Rosom Hill Tributary	N/A	*	*	386	*
<b>STANLEY BRANCH</b>					
At county boundary	2.7	415	697	840	1,277
At State Road 58	3.7	446	797	1,063	1,754
About 1.25 miles upstream of mouth	7.2	640	1,140	1,500	2,450

\* Data not available

**Table 5 – Summary of Discharges - continued**

<u>FLOODING SOURCE AND LOCATION</u>	<u>DRAINAGE AREA (sq.miles)</u>	<u>PEAK DISCHARGES (cfs)</u>			
		<u>% Annual chance</u>			
		<u>10%</u>	<u>2%</u>	<u>1%</u>	<u>0.2%</u>
<b>TIMOTHY CREEK</b>					
Just downstream of U.S. Highway 78	14.0	794	1,391	1,684	2,481
Just downstream of Railroad	19.2	1,025	1,781	2,169	3,228
<b>TRIBUTARY 1 TO ROUND SAVANNAH TRIBUTARY</b>					
At confluence with Round Savannah Tributary	1.2	*	*	409	*
<b>TRIBUTARY 2 TO ROUND SAVANNAH TRIBUTARY</b>					
At confluence with Round Savannah Tributary	0.9	*	*	588	*
<b>TRIBUTARY 1 TO WATSON HILL TRIBUTARY</b>					
At State Highway 165	1.9	*	*	1,321	*
<b>TRIBUTARY NO. 1</b>					
At unpaved road	0.1	68	121	159	258
<b>TRIBUTARY NO. 2</b>					
At Dorchester Road	0.6	215	362	444	564
At mouth	1.1	324	539	656	838
<b>TRIBUTARY NO. 3</b>					
At mouth	0.9	125 <sup>1</sup>	139 <sup>1</sup>	143 <sup>1</sup>	153 <sup>1</sup>
<b>TRIBUTARY NO. 4</b>					
At unpaved road	0.4	138	243	320	518
<b>TRIBUTARY NO. 5</b>					
At State Route 22	0.5	168	296	390	632
<b>TRIBUTARY NO. 6</b>					
At McMakin Street	0.4	132	234	308	505

\* Data not available

<sup>1</sup> Discharges affected by storage upstream of State Route 61

**Table 5 – Summary of Discharges - continued**

<u>FLOODING SOURCE AND LOCATION</u>	<u>DRAINAGE AREA (sq.miles)</u>	<u>PEAK DISCHARGES (cfs)</u>			
		<u>% Annual chance</u>			
		<u>10%</u>	<u>2%</u>	<u>1%</u>	<u>0.2%</u>
UNNAMED TRIBUTARY TO ASHLEY RIVER					
At unpaved road	0.5	150	265	349	565
At State Road 13	1.3	260	460	605	980
About 4,400 feet upstream of mouth	3.1	390	700	940	1,550
WATSON HILL TRIBUTARY					
At State Highway 165	0.5	*	*	941	*

\* Data not available

Water levels in the lower portions of the Ashley River are influenced by Atlantic Ocean tides. Therefore, storm-induced tidal surges were also considered in the detailed study. Surge backwater elevations for the Ashley River were taken from the South Carolina Storm Surge Project (Reference 8). Coastal storm surge analyses were carried out to establish the peak frequency-elevation relationships for coastal flooding of the selected recurrence intervals.

The Stillwater elevations have been determined for the 10-, 2-, 1-, and 0.2-percent annual chance floods for Ashley River and the Atlantic Ocean and are summarized in Table 6, “Summary of Stillwater Elevations.”

**Table 6 – Summary of Stillwater Elevations**

<u>FLOODING SOURCE AND LOCATION</u>	<u>ELEVATION (feet NAVD)</u>			
	<u>% Annual Chance</u>			
	<u>10%</u>	<u>2%</u>	<u>1%</u>	<u>0.2%</u>
ASHLEY RIVER				
At Downstream county boundary	5.4	7.3	9.3	13.6
ATLANTIC OCEAN				
At Sullivan Island	5.4	7.9	9.8	14.0

### 3.2 Hydraulic Analyses

Analyses of the hydraulic characteristics of flooding from the sources studied were carried out to provide estimates of the elevations of floods of the selected recurrence intervals. Users should be aware that flood elevations shown on the Flood Insurance Rate Map (FIRM) represent rounded whole-foot elevations and may not exactly reflect the elevations shown on the Flood Profiles or in the

Floodway Data Tables in the FIS report. Flood elevations shown on the FIRM are primarily intended for flood insurance rating purposes. For construction and/or floodplain management purposes, users are cautioned to use the flood elevation data presented in this FIS in conjunction with the data shown on the FIRM.

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

Cross sections for the flooding sources studied by detail methods were obtained from field surveys. All bridges, dams and culverts were field surveyed to obtain elevation data and structural geometry. All topographic mapping used to determine cross sections is referenced in Section 4.1.

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

### **Pre-countywide Analyses**

For Chandler Bridge Creek, upstream of Miles Jamison Road; Coosaw Creek, upstream of Dorchester Road; Eagle Creek, from the confluence of Chandler Bridge Creek to the county boundary; the Edisto River; Four Hole Swamp; Polk Swamp; Sawpit Creek; Stanley Branch, from State Road 58 to the county boundary; Tributary No. 2; and Tributary No. 3, the necessary channel cross sections were obtained by new field survey work undertaken as part of this study, including surveys of bridges, dams, and culverts. Additional topography was obtained from topographic maps (Reference 1).

For Green Bay Branch; Hurricane Branch, from Tutor Road to an unpaved road approximately 0.74 mile upstream of Claussen Street; Negro Branch, from State Road 22 (Orangeburg Road) to White Boulevard; Platt Branch, from State Road 22 (Orangeburg Road) to Lake Drive; Rumphs Hill Creek, from U.S. Highway 78 to Lawrence Drive; Unnamed Tributary to Ashley River, from State Road 13 to a point approximately 1,500 feet upstream of the confluence of Tributary No. 1; and Tributary Nos. 1, 4, 5, and 6, approximately 116 road, bridge, and channel and valley cross sections were surveyed along the system studied. Some existing cross sections from the 1973-74 survey were adequate as run, while others were extended during the summer of 1987 to adequately define floodplain boundaries. Existing data used were checked to determine if any changes had taken place; i.e., road improvements, floodplain filling, changes in conduits or bridges, or channel enlargement, and these changes were then taken into consideration. Many of the cross sections were surveyed in 1987. The self-leveling level was used to establish elevations and the engineering chain to measure distances. Distances between cross sections were scaled from 1983 ASCS high altitude photography.

For the Ashley River, from a point approximately 5.4 miles upstream of the Charleston County boundary to the Berkeley County boundary; Coosaw Creek, from the confluence with the Ashley River to Dorchester Road; Sawmill Branch;

Hurricane Branch, from the confluence with the Ashley River to Tutor Road; Rumphs Hill Creek, from the confluence with the Ashley River to U.S. Highway 78; Negro Branch, from the confluence with Rumphs Hill Creek to State Road 22; Platt Branch, from the confluence with the Ashley River to State Road 22; and Stanley Branch, from the confluence with the Ashley River to State Road 58, cross sections for the backwater analyses were obtained from aerial photographs at a scale of 1:9,600. The below-water sections were obtained by field measurement. All bridges, dams, and culverts were field checked to obtain elevation and structural geometry data.

Cross section data for Sawmill Branch; Eagle Creek, from the confluence with the Ashley River to the confluence of Chandler Bridge Creek; and Chandler Bridge Creek, from the confluence with Eagle Creek to Miles Jamison Road were obtained from the USACE, Charleston District.

Starting water-surface elevations were determined using normal depth or mean high tide, whichever was greater. If the analysis was a restudy or extension of a previously studied area, the previous elevations were used as starting elevations for the new detailed reaches.

Water-surface elevations of floods of the selected recurrence intervals were computed using the USACE HEC-2 computer program (References 9 and 10) for the following streams: the Ashley River, from approximately 5.4 miles upstream of the Charleston County boundary to the Berkeley County boundary; Coosaw Creek; Eagle Creek; Sawmill Branch; Hurricane Branch, from the confluence with the Ashley River to Tutor Road; Rumphs Hill Creek, from the confluence with the Ashley River to U.S. Highway 78; Negro Branch, from the confluence with Rumphs Hill Creek to State Road 22; Platt Branch, from the confluence with the Ashley River to State Road 22; Stanley Branch; Chandler Bridge Creek; the Edisto River; Four Hole Swamp; Polk Swamp; Sawpit Creek; Tributary No. 2; and Tributary No. 3.

For Tributary No. 2, the USACE HEC-2 computer program was used to calculate backwater elevations from its mouth to State Route 61. The culverts under State Route 61 are too small to pass the 100-year flow, so a ponding analysis was performed for the area upstream of the road using a pond-routing program (Reference 11). For the remaining streams, elevation discharge relationships were established using the WSP-2 computer program (Reference 12). Locations of selected cross sections used in the hydraulic analyses are shown on the Flood Profiles (Exhibit 1) and on the Flood Insurance Rate Map (Exhibit 2).

Roughness coefficients (Manning's "n") used in the hydraulic computations were selected on the basis of field observations, aerial photos, and photographs of the streams and floodplain areas. Roughness values ranged from 0.020 to 0.120 in the channel, and from 0.035 to 0.150 in the overbank areas.

Flood profiles were drawn showing the computed water-surface elevations for floods of the selected recurrence intervals. In cases where the 50- and 100-year flood elevations are close together, due to limitations of the profile scale, only the 100-year profile has been shown.

For the December 4, 1985 FIS for the Town of Summerville, South Carolina cross sections for the backwater analyses of Sawmill Branch were obtained from the USACE. All bridges and culverts were field checked to verify elevation data and structural geometry.

Water surface elevations of floods of the selected recurrence intervals were computed using the USACE HEC-RAS computer program (Reference 13) for the following streams: Fishburne Creek from approximately 130 feet downstream of State Highway 165 to approximately 2,170 feet upstream of State Road 84, Legend Oaks Tributary from the confluence with Tributary 1 to Watson Hill Tributary to just downstream of Ashley River Road, Rosom Hill Tributary from the confluence with Round Savannah Tributary to just downstream of Ashley River Road, Round Savannah Tributary from approximately 170 feet downstream of State Highway 165 to the confluence of Rosom Hill Tributary, Scotts Branch from the confluence with Fishburne Creek to the divergence from Rosom Hill Tributary, Tributary 1 to Round Savannah Tributary from the confluence with Round Savannah Tributary to approximately 16,220 feet upstream, Tributary 2 to Round Savannah Tributary from the confluence with Round Savannah Tributary to approximately 9,000 feet upstream, Tributary 1 to Watson Hill Tributary from approximately 420 feet downstream of State Highway 165 to the confluence of Legend Oaks Tributary, and Watson Hill Tributary from approximately 310 feet downstream of State Highway 165 to approximately 3,700 feet upstream.

Channel roughness factors (Manning's "n") used in the hydraulic computations, were chosen by engineering judgment and based on field observations of the streams and flood plain areas. Roughness values used for the stream were 0.4 for the channel while roughness values ranged from 0.06 to .12 for the overbank areas of the floods

Flood profiles were drawn showing computed water-surface elevations to an accuracy of 0.5 foot for floods of the selected recurrence intervals (Exhibit I). Water-surface elevations for floods of the selected recurrence intervals were computed through use of the USACE HEC-2 step-backwater computer program. The starting water-surface elevations for Sawmill Branch were calculated using the slope-area method.

### **Countywide Analyses**

Cross section geometries obtained from Light Detection and Ranging (LiDAR) data provided by SCDNR and field surveyed for detailed surveyed streams (Reference 14). For limited detailed studied streams, all structure openings were field measured.

Water surface elevations of floods for the selected recurrence intervals were computed for the using USACE HEC-RAS 4.0 for steady-state hydraulic modeling (Reference 15). The hydraulic models were developed using recently acquired LiDAR land data, field measurements of hydraulic structure information and updated hydrologic data. Models for limited detailed studied streams were developed for the 1-percent-annual-chance frequency storm discharges.

Starting conditions for the hydraulic models were set to normal depth using starting slopes calculated from the LIDAR data or, where applicable, derived from the water surface elevations of existing effective flood elevations.

Roughness coefficients (Manning’s “n”) used in the hydraulic computations were chosen based on field survey photos and aerial imagery. Table 7, “Manning’s “n” Values.” provides a listing of roughness coefficients used in the models.

**Table 7 – Manning’s “n” Values**

<b><u>Stream</u></b>	<b><u>Channel “n”</u></b>	<b><u>Overbank “n”</u></b>
<u>Detail Study Streams</u>		
Ashley River	0.020 - 0.120	0.035 - 0.150
Chandler Bridge Creek	0.035 - 0.500	0.060 - 0.200
Coosaw Creek	0.020 - 0.120	0.035 - 0.150
Eagle Creek	0.035 - 0.130	0.060 - 0.150
Edisto River	0.020 - 0.120	0.035 - 0.150
Fishburne Creek	0.035 - 0.050	0.100
Four Hole Swamp	0.020 - 0.120	0.035 - 0.150
Green Bay Branch	0.030 - 0.040	0.100 - 0.150
Hurricane Branch	0.020 - 0.120	0.035 - 0.150
Legend Oaks Tributary	0.035 - 0.080	0.100
Negro Branch	0.020 - 0.120	0.035 - 0.150
Platt Branch	0.020 - 0.120	0.035 - 0.150
Polk Swamp	0.020 - 0.120	0.035 - 0.150
Rosom Hill Tributary	0.035	0.090 - 0.100
Round Savannah Tributary	0.035	0.090
Rumphs Hill Creek	0.020 - 0.120	0.035 - 0.150
Sawmill Branch	0.030 - 0.045	0.060 - 0.150
Sawpit Creek	0.020 - 0.120	0.035 - 0.150
Scotts Branch	0.035	0.100
Stanley Branch	0.020 - 0.120	0.035 - 0.150
Timothy Creek		
Tributary 1 to Round Savannah Tributary	0.050	0.100
Tributary 2 to Round Savannah Tributary	0.035 - 0.090	0.100
Tributary 1 to Watson Hill Tributary	0.080	0.100
Tributary No. 1	0.020 - 0.120	0.035 - 0.150
Tributary No. 2	0.020 - 0.120	0.035 - 0.150
Tributary No. 3	0.020 - 0.120	0.035 - 0.150
Tributary No. 4	0.020 - 0.120	0.035 - 0.150
Tributary No. 5	0.020 - 0.120	0.035 - 0.150
Tributary No. 6	0.020 - 0.120	0.035 - 0.150
Unnamed Tributary to Ashley River	0.020 - 0.120	0.035 - 0.150
Watson Hill Tributary	0.050	0.100

**Table 7 – Manning’s “n” Values - continued**

<b><u>Stream</u></b>	<b><u>Channel “n”</u></b>	<b><u>Overbank “n”</u></b>
<u>Limited Detail Study Streams</u>		
Ashley River Tributary 5	0.045	0.100 - 0.150
Ashley River Tributary 8	0.050	0.100 - 0.150
Ashley River Tributary 8-4	0.050	0.140
Ashley River Tributary 25-2	0.050	0.140
Ashley River Tributary 27	0.050	0.140
Ashley River Tributary 30	0.050	0.140 - 0.150
Ashley River Tributary 39	0.050	0.135 - 0.140
Ashley River Tributary 44	0.045- 0.050	0.100 - 0.150
Ashley River Tributary 44-1	0.450	0.120 - 0.150
Ashley River Tributary 45-2	0.050	0.140
Bear Branch	0.045 - 0.050	0.100 - 0.150
Box Branch	0.045 - 0.500	0.100 - 0.150
Cane Branch	0.045 - 0.050	0.100 - 0.150
Captains Creek	0.045 - 0.050	0.120 - 0.150
Cattle Creek	0.050	0.101- 0.140
Cattle Creek Tributary 3	0.050	0.140 - 0.150
Cowtail Creek	0.045 - 0.050	0.100 - 0.150
Cowtail Creek Tributary 2	0.045	0.110 - 0.150
Crawford Branch	0.050	0.100 - 0.150
Dorchester Creek	0.045	0.100 - 0.150
Edisto River	0.050	0.100 - 0.150
Edisto River Tributary 18	0.040	0.100 - 0.140
Fishburne Creek	0.035 - 0.040	0.100 - 0.145
Fishburne Creek Tributary 2-1	0.040 - 0.050	0.135 - 0.145
Fishburne Creek Tributary 2-1-1	0.045	0.135
Fishburne Creek Tributary 5	0.040	0.140 - 0.145
Fishburne Creek Tributary 5-1	0.045	0.115 - 0.135
Fishburne Creek Tributary 5-2	0.045	0.110 - 0.150
Fishburne Creek Tributary 5-3	0.040	0.125 - 0.150
Fishburne Creek Tributary 5-4	0.045	0.135
Fishburne Creek Tributary 5-4-1	0.045	0.100 - 0.150
Fishburne Creek Tributary 5-6	0.040 - 0.050	0.135 - 0.150
Fishburne Creek Tributary 6	0.040 - 0.045	0.100 - 0.140
Fishburne Creek Tributary 6-1	0.040 - 0.045	0.115 - 0.150
Fishburne Creek Tributary 10	0.040	0.115 - 0.135
Fishburne Creek Tributary 14	0.045	0.100 - 0.150
Fishburne Creek Tributary 14-2	0.045	0.110 - 0.150
Fishburne Creek Tributary 16	0.050	0.140
Fishburne Creek Tributary 17	0.050	0.110 - 0.140
Fishburne Creek Tributary 19	0.050	0.125 - 0.140
Four Hole Swamp	0.050	0.100 - 0.140

**Table 7 – Manning’s “n” Values - continued**

<b><u>Stream</u></b>	<b><u>Channel “n”</u></b>	<b><u>Overbank “n”</u></b>
<u>Limited Detail Study Streams- continued</u>		
Four Hole Swamp Tributary 2.1	0.050	0.120 - 0.140
Four Hole Swamp Tributary 2.2	0.050	0.140 - 0.150
Four Hole Swamp Tributary 8	0.045	0.110 - 0.150
Four Hole Swamp Tributary 10	0.045	0.125 - 0.145
Four Hole Swamp Tributary 10-4	0.050	0.110 - 0.145
Green Bay Branch	0.045	0.125
Gum Branch	0.045 - 0.050	0.100 - 0.150
Gum Branch Tributary 1	0.045 - 0.050	0.100 - 0.150
Gum Branch Tributary 2	0.045	0.120 - 0.150
Halfway Gut Creek	0.050	0.120
Hurricane Branch	0.040 - 0.045	0.100 - 0.130
Indian Field Swamp	0.040 - 0.050	0.100 - 0.150
Indian Field Swamp Tributary 4	0.040	0.115 - 0.150
Indian Field Swamp Tributary 6	0.045	0.130 - 0.150
Kelly Branch	0.050	0.100 - 0.140
Little Walnut Branch	0.045	0.100 - 0.140
Marshall Branch	0.050	0.100 - 0.150
McChune Branch	0.050	0.150
McKeown Branch	0.050	0.100 - 0.150
Negro Branch	0.045	0.120
Polk Swamp (Downstream)	0.040	0.100 - 0.145
Polk Swamp (Upstream)	0.050	0.110 - 0.150
Polk Swamp Tributary 5	0.050	0.120 - 0.150
Polk Swamp Tributary 6	0.045 - 0.050	0.100 - 0.140
Polk Swamp Tributary 8	0.045 - 0.050	0.100 - 0.150
Rantowles Creek	0.045	0.125 - 0.135
Raven Hill Tributary	0.045	0.135 - 0.140
Round Savannah Tributary	0.035 - 0.045	0.090 - 0.145
Rumphs Hill Creek	0.045 - 0.050	0.120 - 0.140
Sawmill Branch Tributary 1	0.040 - 0.050	0.110 - 0.140
Sawmill Branch Tributary 3	0.045 - 0.050	0.100 - 0.150
Scotts Branch	0.045	0.100 - 0.150
Spring Branch	0.050	0.100 - 0.150
Timothy Creek	0.050	0.115 - 0.140
Ting Branch	0.045 - 0.050	0.100 - 0.150
Tributary 1 to Scotts Branch	0.040 - 0.045	0.110 - 0.150
Tributary 1 to Watson Hill Tributary	0.080	0.100
Tributary No 3	0.045	0.140
Tributary No 4	0.045	0.110 - 0.120

**Table 7 – Manning’s “n” Values - continued**

<b><u>Stream</u></b>	<b><u>Channel “n”</u></b>	<b><u>Overbank “n”</u></b>
<u>Limited Detail Study Streams- continued</u>		
Tributary No 5	0.050	0.120 - 0.130
Unnamed Tributary to Ashley River	0.050	0.120 - 0.140
Unnamed Tributary 27	0.050	0.100 - 0.140
Walnut Branch	0.045	0.100 - 0.150
Walnut Branch Tributary 1	0.045	0.140
Walnut Branch Tributary 3	0.040 - 0.050	0.100 - 0.140
Watson Hill Tributary	0.045 - 0.050	0.100 - 0.150

For FIRM panels dated July 16, 2004, or later, qualifying bench marks within a given jurisdiction that are cataloged by the National Geodetic Survey (NGS) and entered into the National Spatial Reference System (NSRS) as First or Second Order Vertical and have a vertical stability classification of A, B, or C are shown and labeled on the FIRM with their 6-character NSRS Permanent Identifier.

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 the frost line)

Stability D: Mark of questionable or unknown vertical stability (e.g., concrete monument above frost line, or steel witness post)

In addition to NSRS bench marks, the FIRM may also show vertical control monuments established by a local jurisdiction; these monuments will be shown on the FIRM with the appropriate designations. Local monuments will only be placed on the FIRM if the community has requested that they be included, and if the monuments meet the aforementioned NSRS inclusion criteria.

To obtain elevation, description, and /or location information for bench marks shown on the FIRM for this jurisdiction, please contact the Information Services Branch of the NGS at (301) 713-3242, or visit their Web site at [www.ngs.noaa.gov](http://www.ngs.noaa.gov).

It is important to note that temporary vertical monuments are often established during the preparation of a flood hazard analysis for the purpose of establishing local vertical control. Although these monuments are not shown on the FIRM,

they may be found in the Technical Support Data Notebook associated with this FIS and FIRM. Interested individuals may contact FEMA to access this data.

### 3.3 Vertical Datum

All FISs and FIRMs are referenced to a specific vertical datum. The vertical datum provides a starting point against which flood, ground, and structure elevations can be referenced and compared. Until recently, the standard vertical datum in use for newly created or revised FISs and FIRMs was the National Geodetic Vertical Datum of 1929 (NGVD 29). With the finalization of the North American Vertical Datum of 1988 (NAVD 88), many FIS reports and FIRMs are being prepared using NAVD 88 as the referenced vertical datum.

All flood elevations shown in this FIS report and on the FIRM are referenced to NAVD 88. Structure and ground elevations in the county must, therefore, be referenced to NAVD 88. It is important to note that adjacent counties may be referenced to NGVD 29. This may result in differences in base flood elevations (BFEs) across the county boundaries between the counties.

The average datum shift from NGVD 29 to NAVD 88 for Dorchester County used was -0.976 feet.

For information regarding conversion between the NGVD and NAVD, visit the National Geodetic Survey website at [www.ngs.noaa.gov](http://www.ngs.noaa.gov), or contact the National Geodetic Survey at the following address:

NGS Information Services  
NOAA, N/NGS12  
National Geodetic Survey  
SSMC-3, #9202  
1315 East-West Highway  
Silver Spring, Maryland 20910  
(301) 713-3242

## 4.0 FLOODPLAIN MANAGEMENT APPLICATIONS

The NFIP encourages State and local governments to adopt sound floodplain management programs. To assist in this endeavor, each FIS report provides 1-percent-annual-chance floodplain data, which may include a combination of the following: 10-, 2-, 1-, and 0.2-percent-annual-chance flood elevations; delineations of the 1- and 0.2-percent-annual-chance floodplains; and 1-percent annual-chance floodway. This information is presented on the FIRM and in many components of the FIS report, including Flood Profiles, and Floodway Data Tables and Summary of Stillwater Elevations Table. Users should reference the data presented in the FIS report as well as additional information that may be available at the local community map repository before making flood elevation and/or floodplain boundary determinations.

#### 4.1 Floodplain Boundaries

To provide a national standard without regional discrimination, the 1-percent-annual-chance flood has been adopted by FEMA as the base flood for floodplain management purposes. The 0.2-percent-annual-chance flood is employed to indicate additional areas of flood risk in the community. For the streams studied in detail, the 1- and 0.2-percent-annual-chance floodplains have been delineated using the flood elevations determined at each cross section.

For this countywide FIS, flood boundaries between cross sections were interpolated using topographic data derived from LIDAR bare-earth data with an average point spacing less than 0.7 meters.

The 1- and 0.2-percent-annual-chance floodplain boundaries are shown on the FIRM. On this map, the 1-percent-annual-chance floodplain boundary corresponds to the boundary of the areas of special flood hazards (Zones A and AE), and the 0.2-percent-annual-chance floodplain boundary corresponds to the boundary of areas of moderate flood hazards. In cases where the 1- and 0.2-percent-annual-chance floodplain boundaries are close together, only the 1-percent-annual-chance floodplain boundary has been shown. Small areas within the floodplain boundaries may lie above the flood elevations, but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data.

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

#### 4.2 Floodways

Encroachment on floodplains, such as structures and fill, reduces flood-carrying capacity, increases flood heights and velocities, and increases flood hazards in areas beyond the encroachment itself. One aspect of floodplain management involves balancing the economic gain from floodplain development against the resulting increase in flood hazard. For purposes of the NFIP, a floodway is used as a tool to assist local communities in this aspect of floodplain management. Under this concept, the area of the 1-percent-annual-chance floodplain is divided into a floodway and a floodway fringe. The floodway is the channel of a stream, plus any adjacent floodplain areas, that must be kept free of encroachment so that the 1-percent-annual-chance flood can be carried without substantial increases in flood heights. Minimum Federal standards limit such increases to 1.0 foot, provided that hazardous velocities are not produced. The floodways in this study are presented to local agencies as a minimum standard that can be adopted directly or that can be used as a basis for additional floodway studies.

The floodways presented in this study 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 in Table 8, "Floodway Data." The computed floodways are shown on the FIRM (Exhibit 2). In cases where the floodway and 1-percent annual chance floodplain boundaries are either close together or collinear, only the floodway boundary is shown.

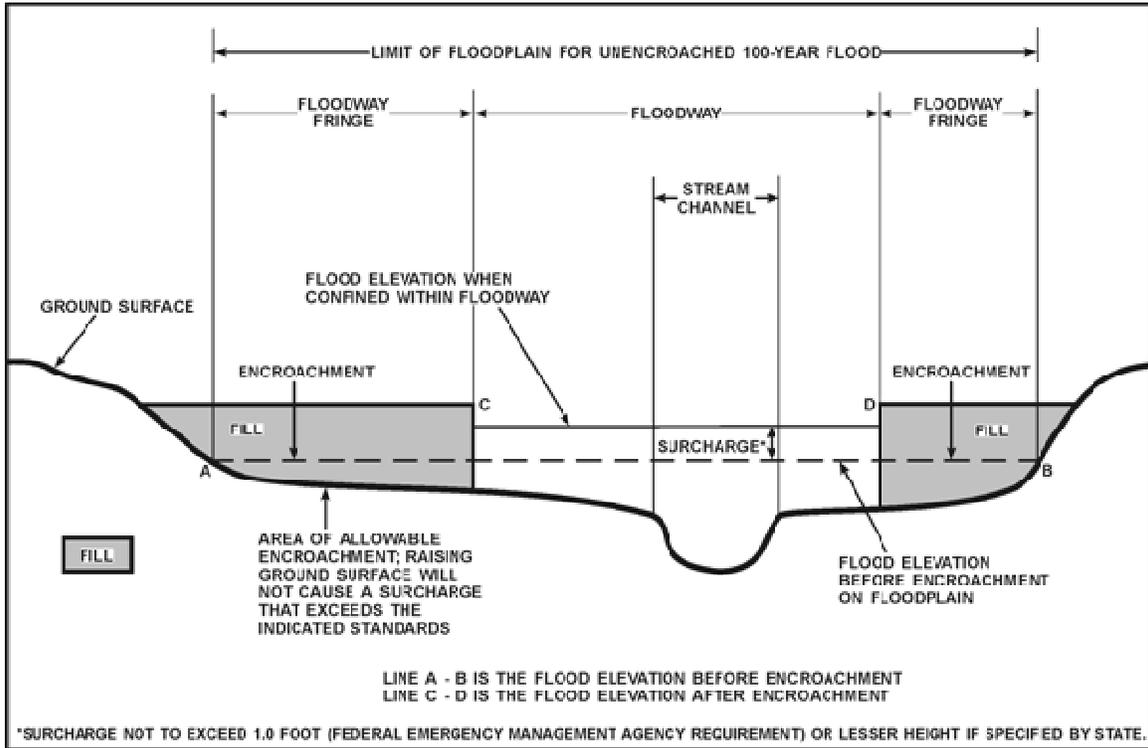
Near the mouths of streams studied in detail, floodway computations are made without regard to flood elevations on the receiving water body. Therefore, "Without Floodway" elevations presented in Table 8 for certain downstream cross sections of Hurricane Branch, Platt Branch, Rumphs Hill Creek, Tributary No.2 and Unnamed Tributary to Ashley River are lower than the regulatory flood elevations in that area, which must take into account the 1-percent-annual-chance flooding due to backwater from other sources.

Encroachment into areas subject to inundation by floodwaters having hazardous velocities aggravates the risk of flood damage, and heightens potential flood hazards by further increasing velocities. A listing of stream velocities at selected cross sections is provided in Table 8. To reduce the risk of property damage in areas where the stream velocities are high, the community may wish to restrict development in areas outside the floodway.

No floodways have been computed for streams studied by limited detail methods. Information pertaining to the flood discharges, and 1-percent-annual-chance water surface elevations for selected cross sections along streams studied by limited detail methods is shown on Table 9, "Limited Detailed Flood Hazard Data."

The area between the floodway and 1-percent-annual-chance floodplain boundaries is termed the "floodway fringe." The floodway fringe encompasses the portion of the floodplain that could be completely obstructed without increasing the water-surface elevation (WSEL) of the 1-percent-annual-chance flood by more than 1.0 foot at any point. Typical relationships between the floodway and the floodway fringe and their significance to floodplain development are shown in Figure 1, "Floodway Schematic."

Figure 1 – Floodway Schematic



FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Ashley River								
A-J*								
K	24,320	410	3,414	3.3	**	6.7 <sup>3</sup>	7.5	0.8
L	25,550	221	2,401	4.7	**	7.2 <sup>3</sup>	8.1	0.9
M	27,900	2,400	9,319	1.2	**	8.9 <sup>3</sup>	9.8	0.9
N	30,260	1,786	11,318	1.0	**	9.4 <sup>3</sup>	10.3	0.9
O	32,580	1,895	10,443	1.0	9.8 <sup>2</sup>	9.8 <sup>3</sup>	10.7	0.9
P	35,190	2,302	10,356	1.0	10.4	10.4	11.3	0.9
Q	37,100	2,542	12,447	0.8	10.9	10.9	11.8	0.9
R	39,260	806	4,026	2.6	11.8	11.8	12.7	0.9
S	40,590	2,250	13,017	0.8	12.6	12.6	13.6	1.0
T	42,640	2,648	16,426	0.6	13.0	13.0	14.0	1.0
U	44,675	1,126	6,993	1.5	13.3	13.3	14.3	1.0
V	44,895	1,211	7,639	1.4	13.5	13.5	14.4	0.9
W	46,965	2,696	20,195	0.5	13.8	13.8	14.8	1.0
X	51,515	1,273	6,794	1.5	14.5	14.5	15.4	0.9
Y	52,985	2,413	12,733	0.8	15.4	15.4	16.4	1.0
Z	56,155	1,855	8,975	1.1	16.3	16.3	17.2	0.9
AA	58,115	2,293	14,897	0.7	17.0	17.0	18.0	1.0
AB	59,735	4,658	36,218	0.3	17.2	17.2	18.2	1.0
AC	61,675	3,550	16,023	0.6	17.3	17.3	18.3	1.0
AD	63,065	3,780	19,623	0.5	17.9	17.9	18.9	1.0
AE	65,295	665	4,861	2.1	18.3	18.3	19.3	1.0
AF	65,505	819	5,271	1.9	18.8	18.8	19.7	0.9
AG	67,885	1,156	8,327	1.2	20.3	20.3	21.3	1.0
AH	70,725	1,563	11,175	0.9	21.3	21.3	22.3	1.0
AI	72,965	2,166	16,899	0.6	21.6	21.6	22.6	1.0
AJ	75,275	4,835	30,356	0.3	21.9	21.9	22.9	1.0

<sup>1</sup> Distance in feet above county boundary

<sup>2</sup> Combined coastal and riverine effects from Atlantic Ocean and Ashley River

<sup>3</sup> Elevation computed without consideration of backwater effects from Atlantic Ocean

\* No floodway data computed

\*\* Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

**TABLE 8**

FEDERAL EMERGENCY MANAGEMENT AGENCY

**DORCHESTER COUNTY, SC  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**ASHLEY RIVER**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Ashley River - continued								
AK	78,115 <sup>1</sup>	3,790	22,377	0.4	22.1	22.1	23.1	1.0
AL	82,175 <sup>1</sup>	4,127	32,352	0.3	22.4	22.4	23.4	1.0
AM	84,525 <sup>1</sup>	3,657	27,288	0.4	22.4	22.4	23.4	1.0
AN	90,705 <sup>1</sup>	4,380	29,569	0.3	22.8	22.8	23.8	1.0
AO	92,465 <sup>1</sup>	3,661	25,578	0.4	22.9	22.9	23.9	1.0
AP	97,515 <sup>1</sup>	4,527	34,395	0.3	23.2	23.2	24.2	1.0
AQ	100,795 <sup>1</sup>	3,429	27,271	0.3	23.3	23.3	24.3	1.0
AR	101,795 <sup>1</sup>	3,059	23,336	0.4	23.3	23.3	24.3	1.0
AS	104,665 <sup>1</sup>	3,593	30,914	0.3	23.5	23.5	24.5	1.0
AT	107,975 <sup>1</sup>	3,693	31,519	0.3	23.5	23.5	24.5	1.0
AU	111,725 <sup>1</sup>	2,543	19,882	0.4	23.7	23.7	24.7	1.0
AV	115,845 <sup>1</sup>	2,969	21,415	0.4	24.1	24.1	25.1	1.0
AW	118,985 <sup>1</sup>	3,468	28,570	0.3	24.3	24.3	25.3	1.0
AX	119,180 <sup>1</sup>	3,532	29,521	0.3	24.5	24.5	25.5	1.0
AY	122,435 <sup>1</sup>	3,630	31,035	0.3	24.6	24.6	25.6	1.0
AZ	125,840 <sup>1</sup>	1,815	9,090	0.9	24.8	24.8	25.8	1.0
BA	126,025 <sup>1</sup>	1,984	11,507	0.7	25.6	25.6	26.5	0.9
BB	132,090 <sup>1</sup>	2,266	12,748	0.6	27.3	27.3	28.3	1.0
Chandler Bridge Creek								
A	241 <sup>2</sup>	50	295	3.5	*	9.5 <sup>3</sup>	9.6	0.1
B	653 <sup>2</sup>	53	332	3.1	10.0	10.0	10.0	0.0
C	1,053 <sup>2</sup>	50	274	3.8	10.2	10.2	10.2	0.0
D	1,593 <sup>2</sup>	49	237	4.4	10.8	10.8	10.8	0.0
E	2,024 <sup>2</sup>	45	228	4.5	11.4	11.4	11.5	0.1
F	2,473 <sup>2</sup>	49	281	3.7	12.2	12.2	12.2	0.0

<sup>1</sup> Distance in feet above county boundary

<sup>2</sup> Distance in feet above the confluence with Eagle Creek

<sup>3</sup> Elevation computed without consideration of backwater effects from Atlantic Ocean

\* Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

**TABLE 8**

FEDERAL EMERGENCY MANAGEMENT AGENCY

**DORCHESTER COUNTY, SC  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**ASHLEY RIVER – CHANDLER BRIDGE CREEK**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Chandler Bridge Creek continued								
G	3,536	42	263	3.8	13.3	13.3	13.3	0.0
H	4,142	44	246	4.1	14.2	14.2	14.3	0.1
I	4,540	42	265	3.4	14.8	14.8	14.8	0.0
J	5,063	51	264	3.5	15.3	15.3	15.3	0.0
K	5,677	43	287	3.2	16.4	16.4	16.6	0.2
L	6,193	45	275	3.3	17.0	17.0	17.2	0.2
M	6,816	43	313	2.9	17.4	17.4	18.0	0.6
N	7,484	43	312	2.9	18.4	18.4	18.8	0.4
O	7,933	44	341	2.7	18.8	18.8	19.2	0.4
P	8,360	49	330	2.8	19.2	19.2	19.6	0.4
Q	8,801	150	529	1.7	19.3	19.3	20.0	0.7
R	9,425	260	855	1.1	19.6	19.6	20.5	0.9
S	9,944	288	975	0.9	19.7	19.7	20.7	1.0
T	10,379	210	595	1.5	19.9	19.9	20.9	1.0
U	10,811	245	894	1.0	20.1	20.1	21.1	1.0
V	11,476	422	1,042	0.8	20.5	20.5	21.4	0.9
W	11,857	367	941	0.9	20.6	20.6	21.6	1.0
X	12,192	467	1,239	0.7	20.8	20.8	21.8	1.0
Y	12,516	558	1,524	0.5	20.9	20.9	21.9	1.0
Z	13,011	590	1,682	0.5	21.0	21.0	22.0	1.0
AA	13,448	465	1,225	0.7	21.1	21.1	22.1	1.0
AB	13,967	399	1,002	0.8	21.7	21.7	22.6	0.9
AC	15,203	625	1,477	0.6	24.8	24.8	24.9	0.1
AD	15,623	597	1,542	1.7	25.0	25.0	25.2	0.2

<sup>1</sup> Distance in feet above the confluence with Eagle Creek

**TABLE 8**

FEDERAL EMERGENCY MANAGEMENT AGENCY

**DORCHESTER COUNTY, SC  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**CHANDLER BRIDGE CREEK**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Chandler Bridge Creek continued								
AE	16,390 <sup>1</sup>	390	1,313	0.6	25.3	25.3	25.9	0.6
AF	17,200 <sup>1</sup>	440	1,206	0.6	25.6	25.6	26.3	0.7
Coosaw Creek								
A	*	*	*	*	*	*	*	*
B	8,860 <sup>2</sup>	88	510	2.2	**	6.54 <sup>3</sup>	7.5	1.0
C	10,710 <sup>2</sup>	183	743	1.4	**	9.04 <sup>3</sup>	10.0	1.0
Eagle Creek								
A	1,505 <sup>2</sup>	63	379	4.2	**	5.2 <sup>3</sup>	5.6	0.4
B	2,570 <sup>2</sup>	52	383	4.1	**	6.3 <sup>3</sup>	6.8	0.5
C	3,046 <sup>2</sup>	52	390	4.1	**	6.6 <sup>3</sup>	7.1	0.5
D	3,536 <sup>2</sup>	63	501	3.2	**	7.0 <sup>3</sup>	7.6	0.6
E	4,062 <sup>2</sup>	65	503	3.1	**	7.2 <sup>3</sup>	7.8	0.6
F	4,552 <sup>2</sup>	62	499	3.2	**	7.4 <sup>3</sup>	8.0	0.6
G	5,117 <sup>2</sup>	54	489	3.2	**	7.6 <sup>3</sup>	8.2	0.6
H	5,562 <sup>2</sup>	54	454	3.4	**	7.7 <sup>3</sup>	8.4	0.7
I	6,097 <sup>2</sup>	54	463	3.4	**	8.0 <sup>3</sup>	8.6	0.6
J	6,562 <sup>2</sup>	54	481	3.2	**	8.2 <sup>3</sup>	8.9	0.7
K	6,970 <sup>2</sup>	50	452	3.4	**	8.4 <sup>3</sup>	9.0	0.6
L	7,299 <sup>2</sup>	50	462	3.4	**	8.8 <sup>3</sup>	9.4	0.6
M	8,420 <sup>2</sup>	19	119	8.0	11.7	11.7	12.2	0.5
N	8,907 <sup>2</sup>	16	101	9.5	13.8	13.8	14.1	0.3
O	9,488 <sup>2</sup>	29	174	5.5	16.9	16.9	16.9	0.0

<sup>1</sup> Distance in feet above the confluence with Eagle Creek

<sup>2</sup> Distance in feet above the confluence with Ashley River

<sup>3</sup> Elevation computed without consideration of backwater effects from Atlantic Ocean

\* No Floodway data computed

\*\* Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

**TABLE 8**

FEDERAL EMERGENCY MANAGEMENT AGENCY

**DORCHESTER COUNTY, SC  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**CHANDLER BRIDGE CREEK – COOSAW CREEK –  
EAGLE CREEK**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Eagle Creek - continued								
P	10,082 <sup>1</sup>	60	325	3.0	18.3	18.3	18.7	0.4
Q	10,514 <sup>1</sup>	260	970	1.0	18.5	18.5	19.4	0.9
R	10,980 <sup>1</sup>	85	488	1.8	18.6	18.6	19.5	0.9
S	11,485 <sup>1</sup>	290	1,315	0.7	18.9	18.9	19.9	1.0
T	11,988 <sup>1</sup>	350	1,079	0.8	19.1	19.1	20.0	0.9
U	12,626 <sup>1</sup>	573	2,043	0.4	19.2	19.2	20.2	1.0
V	13,040 <sup>1</sup>	591	2,412	0.4	19.3	19.3	20.3	1.0
W	13,526 <sup>1</sup>	889	3,465	0.3	19.4	19.4	20.3	0.9
X	13,872 <sup>1</sup>	905	3,396	0.2	19.4	19.4	20.4	1.0
Y	14,318 <sup>1</sup>	645	2,157	0.4	19.5	19.5	20.4	0.9
Edisto River								
A	0 <sup>2</sup>	2,697 <sup>3</sup>	25,203	1.2	17.3	17.3	18.3	1.0
B	5,456 <sup>2</sup>	2,739 <sup>3</sup>	25,606	1.1	18.0	18.0	19.0	1.0
C	17,216 <sup>2</sup>	4,091 <sup>3</sup>	35,792	0.8	19.5	19.5	20.5	1.0
D	27,730 <sup>2</sup>	4,134 <sup>3</sup>	34,625	0.8	20.4	20.4	21.4	1.0
E	35,560 <sup>2</sup>	2,844 <sup>3</sup>	21,423	1.4	21.7	21.7	22.7	1.0
F	40,225 <sup>2</sup>	1,839 <sup>3</sup>	17,576	1.7	22.7	22.7	23.7	1.0
G-J*								

<sup>1</sup> Distance in feet above the confluence with Ashley River

<sup>2</sup> Distance in feet above county boundary

<sup>3</sup> This width extends beyond county boundary

\* No floodway data computed

**TABLE 8**

FEDERAL EMERGENCY MANAGEMENT AGENCY

**DORCHESTER COUNTY, SC  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**EAGLE CREEK – EDISTO RIVER**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Green Bay Branch								
E	13,584	273	1482	0.3	54.4	54.4	55.4	1.0
F	14,149	150	899	0.5	54.5	54.5	55.4	1.0
G	14,563	130	704	0.7	54.5	54.5	55.5	1.0
H	14,895	110	523	0.9	54.6	54.6	55.6	1.0
I	16,020	150	637	0.8	56.8	56.8	57.8	1.0
J	16,462	156	581	0.8	57.1	57.1	58.1	0.9
K	17,096	28	153	3.2	58.1	58.1	59.0	0.9
L	17,490	23	136	3.6	58.4	58.4	59.3	0.9
M	17,934	27	172	2.8	59.1	59.1	59.9	0.7
N	18,546	20	137	3.5	59.9	59.9	60.6	0.6
O	18,973	17	119	4.1	60.3	60.3	60.9	0.5
P	19,498	18	117	4.2	60.9	60.9	61.4	0.5
Q	20,009	23	131	3.7	61.5	61.5	61.9	0.4
R	20,556	69	333	1.5	62.6	62.6	63.4	0.8
S	20,968	64	234	2.1	63.1	63.1	64.0	0.9
T	21,221	75	250	1.9	63.4	63.4	64.3	0.9
U	21,567	65	236	1.3	63.8	63.8	64.5	0.7
V	21,965	26	191	1.6	63.9	63.9	64.6	0.7
W	22,432	28	180	1.7	64.0	64.0	64.7	0.7
X	22,984	31	146	2.2	64.3	64.3	65.2	0.9
Y	23,521	25	132	2.4	64.8	64.8	65.6	0.8
Z	24,012	30	156	2.0	65.3	65.3	66.0	0.7
AA	24,526	53	334	0.9	65.4	65.4	66.1	0.7
AB	25,192	19	137	2.3	66.9	66.9	67.4	0.5
AC	25,549	9	66	4.7	67.0	67.0	67.6	0.6
AD	26,091	118	250	1.3	67.5	67.5	68.4	0.8
AE	27,008	97	256	1.2	68.0	68.0	68.9	1.0

<sup>1</sup> Distance in feet above confluence with Ashley River

**TABLE 8**

FEDERAL EMERGENCY MANAGEMENT AGENCY

**DORCHESTER COUNTY, SC  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**GREEN BAY BRANCH**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Hurricane Branch								
A	2,280 <sup>1</sup>	444	1,181	0.7	22.8	20.2 <sup>3</sup>	21.2	1.0
B	2,460 <sup>1</sup>	553	1,569	0.5	22.8	20.5 <sup>3</sup>	21.5	1.0
C	3,580 <sup>1</sup>	152	451	1.9	23.0	23.0	23.9	0.9
D	3,760 <sup>1</sup>	384	1,562	0.6	24.5	24.5	25.5	1.0
E	4,740 <sup>1</sup>	170	512	1.7	26.6	26.6	27.5	0.9
F	6,515 <sup>1</sup>	102	323	2.7	29.8	29.8	30.7	0.9
G	8,135 <sup>1</sup>	113	351	2.5	33.7	33.7	34.6	0.9
H	10,030 <sup>1</sup>	72	290	3.0	38.0	38.0	39.0	1.0
I	11,850 <sup>1</sup>	35	188	4.6	42.9	42.9	43.9	1.0
J	12,620 <sup>1</sup>	59	213	4.0	45.6	45.6	46.5	0.9
K-R*								
Negro Branch								
A	1,130 <sup>2</sup>	201	957	0.9	32.0	32.0	33.0	1.0
B	2,510 <sup>2</sup>	85	410	2.1	32.5	32.5	33.5	1.0
C	2,680 <sup>2</sup>	319	1,874	0.5	36.5	36.5	37.5	1.0
D	3,730 <sup>2</sup>	46	183	4.0	36.6	36.6	37.6	0.9
E	4,720 <sup>2</sup>	31	188	3.9	41.0	41.0	42.0	1.0
F-N*								

<sup>1</sup> Distance in feet above confluence with Ashley River

<sup>2</sup> Distance in feet above confluence with Rumphs Hill Creek

<sup>3</sup> Elevation computed without consideration of backwater effects from Ashley River

\* No floodway data computed

**TABLE 8**

FEDERAL EMERGENCY MANAGEMENT AGENCY

**DORCHESTER COUNTY, SC  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**HURRICANE BRANCH - NEGRO BRANCH**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Platt Branch								
A	6,960 <sup>1</sup>	362	1,920	0.6	23.6	20.2 <sup>3</sup>	21.2	1.0
B	9,875 <sup>1</sup>	235	1,111	1.0	23.6	20.9 <sup>3</sup>	21.9	1.0
C	11,695 <sup>1</sup>	105	438	2.4	23.6	22.4 <sup>3</sup>	23.4	1.0
D	12,635 <sup>1</sup>	78	276	3.9	26.6	26.6	27.6	1.0
E	13,985 <sup>1</sup>	110	430	2.5	33.6	33.6	34.6	1.0
F	17,105 <sup>1</sup>	167	661	1.6	41.2	41.2	42.2	1.0
G-K*								
Polk Swamp								
A	758 <sup>2</sup>	917	5,967	0.8	65.6	65.6	66.4	0.8
B	4,448 <sup>2</sup>	990	5,531	0.8	66.5	66.5	67.5	1.0
C	9,383 <sup>2</sup>	872	5,208	0.9	69.7	69.7	70.7	1.0
D	13,338 <sup>2</sup>	402	2,197	1.5	72.2	72.2	72.9	0.7
E	19,532 <sup>2</sup>	420	2,394	1.4	76.7	76.7	77.4	0.7
F	25,226 <sup>2</sup>	498	3,792	0.8	82.8	82.8	83.7	0.9
G	29,278 <sup>2</sup>	523	3,012	1.0	83.9	83.9	84.9	1.0
H	34,981 <sup>2</sup>	232	1,642	1.8	91.4	91.4	91.9	0.5
I	38,211 <sup>2</sup>	342	2,573	1.2	95.7	95.7	96.3	0.6
J	40,906 <sup>2</sup>	410	2,385	1.3	97.6	97.6	98.6	1.0

<sup>1</sup> Distance in feet above confluence with Ashley River

<sup>2</sup> Distance in feet above U.S. Highway 15

<sup>3</sup> Elevation computed without consideration of backwater effects from Ashley River

\* No floodway data computed

**TABLE 8**

FEDERAL EMERGENCY MANAGEMENT AGENCY

**DORCHESTER COUNTY, SC  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**PLATT BRANCH – POLK SWAMP**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Rumphs Hill Creek								
A	4,940	417	1,540	1.3	23.2	22.4 <sup>2</sup>	23.4	1.0
B	7,200	537	2,018	1.0	24.3	24.3	25.3	1.0
C	10,920	616	2,426	0.8	26.6	26.6	27.6	1.0
D	14,430	297	1,106	1.7	29.9	29.9	30.8	0.9
E	16,495	370	1,620	1.1	32.6	32.6	33.5	0.9
F	16,687	482	2,440	0.8	33.7	33.7	34.4	0.7
G	18,977	89	367	4.1	35.3	35.3	36.2	0.9
H	19,597	292	1,045	1.4	36.7	36.7	37.7	1.0
I	19,777	328	1,426	1.0	37.4	37.4	38.3	0.9
J	21,307	179	947	1.4	38.0	38.0	38.9	0.9
K	23,407	51	285	4.7	40.5	40.5	41.3	0.8
L	25,857	122	665	2.0	46.5	46.5	47.5	1.0
M	27,897	86	480	2.5	49.1	49.1	50.0	0.9
N	29,547	50	279	4.4	51.6	51.6	52.5	0.9
O	30,487	32	231	5.3	53.8	53.8	54.8	1.0
P	30,677	32	271	4.5	55.0	55.0	56.0	1.0
Q	32,332	63	272	3.7	58.2	58.2	59.1	0.9
R-W*								

<sup>1</sup> Distance in feet above confluence with Ashley River

<sup>2</sup> Elevation computed without consideration of backwater effects from Ashley River

\* No floodway data computed

**TABLE 8**

FEDERAL EMERGENCY MANAGEMENT AGENCY

**DORCHESTER COUNTY, SC  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**RUMPHS HILL CREEK**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Sawmill Branch								
A	774	586	3,038	1.4	*	8.7 <sup>2</sup>	9.4	0.7
B	1,430	375	2,276	1.9	*	9.0 <sup>2</sup>	9.6	0.7
C	1,935	368	2,513	1.7	*	9.1 <sup>2</sup>	9.9	0.8
D	2,348	194	1,232	3.4	*	9.3 <sup>2</sup>	9.9	0.7
E	3,395	439	2,404	1.8	10.8	10.8	11.2	0.4
F	3,736	388	2,774	1.5	11.0	11.0	11.5	0.5
G	4,189	432	2,495	1.7	11.2	11.2	11.8	0.6
H	4,688	430	2,435	1.7	11.4	11.4	12.1	0.7
I	5,041	489	2,266	1.9	11.7	11.7	12.4	0.7
J	5,360	455	2,369	1.7	11.9	11.9	12.8	0.8
K	6,133	511	1,419	2.9	12.8	12.8	13.6	0.8
L	6,607	532	2,934	1.4	13.6	13.6	14.5	0.9
M	7,179	479	2,558	1.6	14.1	14.1	14.9	0.8
N	7,744	564	2,814	1.4	14.5	14.5	15.3	0.8
O	8,313	640	2,823	1.4	15.0	15.0	15.8	0.8
P	8,747	547	1,985	2.0	15.6	15.6	16.3	0.7
Q	9,247	600	2,905	1.4	16.1	16.1	17.1	1.0
R	9,674	496	2,515	1.6	16.6	16.6	17.5	0.9
S	10,135	619	2,744	1.4	17.2	17.2	18.0	0.9
T	10,673	650	3,040	1.3	17.8	17.8	18.6	0.8
U	11,119	675	3,276	1.2	18.3	18.3	19.0	0.8
V	11,638	750	3,224	1.2	18.7	18.7	19.4	0.8
W	12,385	782	3,789	1.0	19.2	19.2	20.1	0.9
X	13,010	1,010	4,935	0.8	19.6	19.6	20.4	0.8
Y	13,528	1,114	5,481	0.7	19.9	19.9	20.6	0.8

<sup>1</sup> Distance in feet above confluence with Ashley River

<sup>2</sup> Elevation computed without consideration of backwater effects from Atlantic Ocean

\* Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

**TABLE 8**

FEDERAL EMERGENCY MANAGEMENT AGENCY

**DORCHESTER COUNTY, SC  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**SAWMILL BRANCH**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Sawmill Branch continued								
Z	14,297	830	2,701	1.4	20.4	20.4	21.0	0.6
AA	15,058	799	3,113	1.2	21.1	21.1	21.8	0.7
AB	17,754	863	3,959	0.9	24.1	24.1	24.9	0.8
AC	18,329	745	3,836	0.9	24.3	24.3	25.2	0.9
AD	18,846	680	3,022	1.2	24.5	24.5	25.4	0.9
AE	19,251	620	2,873	1.2	24.8	24.8	25.7	0.9
AF	19,752	690	3,129	1.1	25.1	25.1	26.0	0.9
AG	20,252	746	3,345	1.0	25.4	25.4	26.4	1.0
AH	20,684	822	3,510	1.0	25.7	25.7	26.7	0.9
AI	21,602	747	3,137	1.1	26.3	26.3	27.2	0.9
AJ	22,149	490	2,250	1.5	26.9	26.9	27.7	0.8
AK	22,688	437	1,869	1.9	27.6	27.6	28.4	0.8
AL	23,215	562	2,914	1.2	28.1	28.1	29.1	0.9
AM	23,593	650	2,742	1.3	28.5	28.5	29.4	0.9
AN	24,394	630	3,019	1.1	29.2	29.2	30.2	1.0
AO	24,927	597	2,460	1.4	29.6	29.6	30.6	1.0
AP	25,280	248	1,283	2.6	30.3	30.3	31.2	0.9
AQ	26,818	595	3,125	1.1	33.7	33.7	34.5	0.8
AR	27,285	713	3,680	0.9	33.9	33.9	34.7	0.8
AS	27,751	673	3,517	0.9	34.1	34.1	35.0	0.8
AT	28,193	684	3,498	1.0	34.4	34.4	35.2	0.8
AU	28,672	553	2,548	1.3	34.7	34.7	35.5	0.8
AV	29,254	394	1,870	1.8	35.2	35.2	36.1	0.8

<sup>1</sup> Distance in feet above confluence with Ashley River

**TABLE 8**

FEDERAL EMERGENCY MANAGEMENT AGENCY

**DORCHESTER COUNTY, SC  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**SAWMILL BRANCH**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Sawmill Branch continued								
AW	29,670	506	2,433	1.4	35.8	35.8	36.5	0.8
AX	30,161	510	2,683	1.2	36.1	36.1	36.9	0.8
AY	30,712	569	2,843	1.1	36.5	36.5	37.3	0.8
AZ	31,170	550	2,186	1.4	36.9	36.9	37.7	0.8
BA	31,697	347	1,723	1.8	37.4	37.4	38.2	0.8
BB	32,231	425	1,749	1.7	38.0	38.0	38.9	0.9
BC	32,617	248	1,075	2.8	38.4	38.4	39.4	0.9
BD	33,147	350	1,591	1.8	39.2	39.2	40.2	1.0
BE	33,571	215	1,017	2.9	39.6	39.6	40.6	1.0
BF	34,494	400	2,215	1.3	41.7	41.7	42.6	0.9
BG	35,458	465	2,573	1.1	42.6	42.6	43.6	1.0
BH	35,665	337	2,065	1.4	42.8	42.8	43.7	0.9
BI	36,150	197	1,223	2.4	43.1	43.1	44.0	0.9
BJ	36,552	290	1,705	1.7	43.5	43.5	44.4	0.9
BK	36,906	220	1,198	2.4	43.8	43.8	44.7	1.0
BL	37,310	182	1,131	2.6	44.3	44.3	45.2	0.9
BM	37,775	118	840	3.4	44.9	44.9	45.7	0.9
BN	38,210	141	895	3.2	46.0	46.0	46.6	0.6
BO	38,776	253	1,437	1.4	46.4	46.4	47.2	0.8
BP	39,283	340	2,005	1.0	46.6	46.6	47.4	0.8
BQ	39,819	350	1,802	1.1	46.8	46.8	47.6	0.8
BR	40,341	252	1,198	1.7	47.0	47.0	48.4	0.9
BS	40,886	225	1,000	2.0	47.7	47.7	48.5	0.9

<sup>1</sup> Distance in feet above confluence with Ashley River

**TABLE 8**

FEDERAL EMERGENCY MANAGEMENT AGENCY

**DORCHESTER COUNTY, SC  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**SAWMILL BRANCH**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Sawmill Branch continued								
BT	41,082 <sup>1</sup>	225	1,097	1.8	47.9	47.9	48.8	0.9
BU	41,523 <sup>1</sup>	195	1,209	1.7	49.3	49.3	50.1	0.8
BV	42,104 <sup>1</sup>	200	1,194	1.7	49.7	49.7	50.5	0.8
BW	42,663 <sup>1</sup>	200	997	2.0	50.2	50.2	51.0	0.8
BX	43,466 <sup>1</sup>	205	1,068	1.9	50.9	50.9	51.9	1.0
BY	43,731 <sup>1</sup>	225	994	2.0	51.4	51.4	52.2	0.8
BZ	44,222 <sup>1</sup>	175	1,062	1.9	53.7	53.7	54.1	0.4
CA	45,064 <sup>1</sup>	450	2,199	0.9	54.1	54.1	54.6	0.5
CB	45,861 <sup>1</sup>	380	2,453	0.8	54.3	54.3	54.8	0.6
CC	46,610 <sup>1</sup>	375	1,802	1.1	54.5	54.5	55.1	0.6
CD	47,392 <sup>1</sup>	220	1,037	2.0	54.8	54.8	55.5	0.7
CE	48,058 <sup>1</sup>	200	846	2.4	55.6	55.6	56.4	0.8
CF	48,823 <sup>1</sup>	240	1,286	1.6	56.3	56.3	57.2	0.8
CG	49,322 <sup>1</sup>	243	1,105	1.8	56.7	56.7	57.6	0.9
Sawpit Creek								
A	780 <sup>2</sup>	104	528	1.4	*	8.5 <sup>3</sup>	9.5	1.0
B	1,935 <sup>2</sup>	41	230	3.2	11.4	11.4	11.8	0.4
C	3,460 <sup>2</sup>	190	258	2.8	13.4	13.4	14.3	0.9
D	5,550 <sup>2</sup>	97	277	1.4	22.6	22.6	23.3	0.7

<sup>1</sup> Distance in feet above confluence with Ashley River

<sup>2</sup> Distance in feet above County Boundary

<sup>3</sup> Elevation computed without consideration of backwater effects from the Atlantic Ocean

\* Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

**TABLE 8**

FEDERAL EMERGENCY MANAGEMENT AGENCY

**DORCHESTER COUNTY, SC  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**SAWMILL BRANCH - SAWPIT CREEK**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Stanley Branch								
A	6,780	402	1,515	1.0	28.0	28.0	29.0	1.0
B	8,260	233	846	1.8	29.7	29.7	30.7	1.0
C	8,445	307	1,245	1.2	30.3	30.3	31.2	0.9
D	9,915	372	2,358	0.6	30.9	30.9	31.9	1.0
E	11,715	345	1,949	0.5	31.2	31.2	32.2	1.0
F	13,505	277	1,598	0.7	31.5	31.5	32.5	1.0
G	14,405	37	191	5.6	35.2	35.2	35.7	0.5
H	15,815	163	575	1.8	40.3	40.3	41.2	0.9
I	17,548	54	260	4.1	43.6	43.6	43.8	0.2
J	18,048	111	530	2.0	44.3	44.3	44.7	0.4
K	19,568	114	427	2.2	46.8	46.8	47.8	1.0
L	21,068	116	501	1.7	49.7	49.7	50.7	1.0
M	22,838	117	418	2.0	52.9	52.9	53.9	1.0
Tributary No. 2								
A	5,480	212	531	1.2	*	3.5 <sup>2</sup>	4.5	1.0
B	6,681	135	541	1.2	*	9.0 <sup>2</sup>	9.1	0.1
C	8,135	19	56	8.0	12.7	12.7	12.7	0.0
D	9,180	26	98	4.5	16.4	16.4	16.4	0.0

<sup>1</sup> Distance in feet above confluence with Ashley River

<sup>2</sup> Elevation computed without consideration of backwater effects from the Atlantic Ocean

\* Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

**TABLE 8**

FEDERAL EMERGENCY MANAGEMENT AGENCY

**DORCHESTER COUNTY, SC  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**STANLEY BRANCH – TRIBUTARY No.2**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Tributary No. 3								
A	1,500	20	51	3.0	14.2	7.3 <sup>2</sup>	8.2	0.9
B	1,920	14	46	3.3	14.2	8.2 <sup>2</sup>	8.8	0.6
C	2,660	478	739	N/A	14.2	13.2 <sup>2</sup>	14.2	1.0
D	3,540	737	2,326	N/A	14.2	13.2 <sup>2</sup>	14.2	1.0
E	4,210	917	2,751	N/A	14.2	13.2 <sup>2</sup>	14.2	1.0
F	5,240	1,018	1,550	N/A	14.2	13.2 <sup>2</sup>	14.2	1.0
Unnamed Tributary to Ashley River								
A	4,420	222	695	1.3	22.3	20.2 <sup>2</sup>	21.2	1.0
B	6,050	454	1,702	0.5	22.3	20.8 <sup>2</sup>	21.8	1.0
C	8,220	185	698	1.3	27.7	27.7	28.6	0.9
D	9,985	57	284	3.3	30.7	30.7	31.6	0.9
E	11,950	53	241	3.9	36.6	36.6	37.3	0.7
F-J*								

<sup>1</sup> Distance in feet above confluence with Ashley River

<sup>2</sup> Elevation computed without consideration of backwater effects from Ashley River

\* No Floodway Data computed

**TABLE 8**

FEDERAL EMERGENCY MANAGEMENT AGENCY

**DORCHESTER COUNTY, SC  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**TRIBUTARY No. 3 – UNNAMED TRIBUTARY TO ASHLEY RIVER**

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>ASHLEY RIVER TRIBUTARY 5</b>			
027	2,664	339	23.53
035	3,488	339	23.54
038	3,784	339	23.54
043	4,295	339	23.54
046	4,639	339	23.55
051	5,129	339	23.55
060	5,977	339	30.06
<b>ASHLEY RIVER TRIBUTARY 8</b>			
072	7,159	949	9.41
091	9,125	949	10.89
096	9,636	949	11.04
115	11,515	701	11.64
<b>ASHLEY RIVER TRIBUTARY 8-4</b>			
007	697	359	10.89
011	1,138	359	11.92
019	1,852	359	15.18
027	2,690	314	15.57
030	2,995	314	15.81
036	3,610	314	16.15
<b>ASHLEY RIVER TRIBUTARY 25-2</b>			
010	986	126	13.54
021	2,061	129	15.29
<b>ASHLEY RIVER TRIBUTARY 27</b>			
040	4,010	205	10.74
044	4,449	205	12.23
048	4,759	205	13.82
051	5,102	205	14.92
054	5,384	205	15.82
059	5,867	205	18.52
064	6,427	205	21.55
<b>ASHLEY RIVER TRIBUTARY 30</b>			
036	3,564	524	9.76
039	3,931	524	10.66
045	4,505	524	12.15
<b>ASHLEY RIVER TRIBUTARY 39</b>			
016	1,636	276	16.60
020	1,951	276	18.92
023	2,285	276	21.03
028	2,768	276	24.05
037	3,688	276	29.50
041	4,087	276	33.71
050	5,004	276	41.52
055	5,453	276	44.50
<b>ASHLEY RIVER TRIBUTARY 44</b>			
063	6,317	1,005	21.33
080	8,006	473	21.93

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>ASHLEY RIVER TRIBUTARY 44 (continued)</b>			
091	9,138	473	23.81
098	9,789	473	25.09
110	11,045	473	27.81
120	11,999	473	30.38
130	12,976	473	33.36
140	13,997	473	35.80
147	14,678	473	40.42
164	16,438	473	41.74
172	17,226	473	45.80
190	19,033	335	48.35
199	19,946	335	52.05
210	21,024	335	53.17
225	22,525	335	55.89
230	23,025	335	56.95
235	23,525	335	57.62
246	24,638	335	58.65
<b>ASHLEY RIVER TRIBUTARY 44-1</b>			
004	447	713	21.61 <sup>3</sup>
009	940	713	22.37
029	2,884	713	25.32
037	3,730	713	26.90
044	4,350	609	27.95
055	5,480	609	30.75
064	6,389	609	32.79
072	7,247	609	34.98
082	8,237	609	36.62
096	9,591	609	40.02
102	10,228	609	42.76
106	10,601	609	43.09
110	10,972	609	43.27
114	11,373	609	43.46
118	11,753	609	43.90
122	12,192	609	45.30
<b>ASHLEY RIVER TRIBUTARY 45-2</b>			
035	3,524	384	26.36
046	4,619	384	29.58
057	5,705	384	33.75
<b>BEAR BRANCH</b>			
019	1,923	899	87.43
036	3,647	881	89.15
041	4,091	881	90.23
050	4,990	881	92.15
062	6,177	780	98.10
071	7,077	780	98.42
084	8,430	780	101.52
094	9,367	750	102.01

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>BEAR BRANCH (continued)</b>			
103	10,321	750	103.24
115	11,462	636	106.48
119	11,949	636	106.67
128	12,776	636	107.85
<b>BOX BRANCH</b>			
034	3,368	1,109	86.34
037	3,713	1,109	86.91
047	4,727	1,109	88.57
058	5,837	1,037	90.29
063	6,288	1,037	91.14
072	7,188	937	92.94
081	8,088	937	94.80
090	8,988	937	96.96
099	9,862	937	99.08
108	10,788	937	101.56
122	12,153	593	104.70
<b>CANE BRANCH</b>			
006	635	213	64.04
010	968	213	65.59
014	1,393	213	68.47
023	2,298	213	80.17
027	2,722	213	80.17
036	3,595	213	84.17
<b>CAPTAINS CREEK</b>			
045	4,495	1,537	24.02 <sup>3</sup>
064	6,410	1,462	24.02 <sup>3</sup>
093	9,326	1,206	24.23
109	10,933	1,206	25.23
121	12,074	1,206	27.40
135	13,497	1,206	28.62
144	14,426	1,133	29.68
154	15,406	1,133	30.59
159	15,928	1,133	30.96
176	17,564	655	32.24
181	18,102	629	33.52
194	19,393	629	35.72
202	20,152	629	36.88
206	20,633	629	37.61
219	21,880	493	40.86
230	22,997	493	42.27
235	23,496	493	43.21
240	23,996	493	44.30
245	24,526	493	46.00
250	24,995	493	47.20
255	25,495	493	48.24
260	25,995	341	49.34

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>CAPTAINS CREEK (continued)</b>			
271	27,139	341	52.50
<b>CATTLE CREEK</b>			
049	4,867	4,099	80.94
058	5,829	4,088	81.13
072	7,200	4,088	81.45
077	7,650	4,088	81.56
085	8,451	3,953	81.81
090	8,959	3,953	81.99
104	10,350	3,953	82.74
108	10,800	3,953	83.06
117	11,700	3,953	83.66
131	13,050	3,953	84.91
134	13,426	3,749	85.24
140	13,950	3,749	85.69
153	15,300	3,749	86.73
158	15,750	3,749	87.13
167	16,650	3,749	87.92
171	17,050	3,749	88.28
176	17,550	3,696	88.76
180	18,000	3,696	89.13
189	18,900	3,696	89.78
193	19,328	3,696	90.10
197	19,732	3,696	90.40
202	20,217	3,696	90.77
207	20,700	3,660	91.12
221	22,050	3,660	91.96
230	22,950	3,660	92.56
242	24,229	3,660	93.70
248	24,750	3,616	93.99
252	25,200	3,616	94.27
261	26,100	3,616	94.94
266	26,550	3,616	95.21
275	27,450	3,616	95.83
279	27,900	3,616	96.33
284	28,361	3,616	96.93
293	29,250	3,616	97.67
297	29,700	3,616	98.05
302	30,150	3,616	98.47
315	31,523	3,383	100.92
321	32,051	3,383	101.02
337	33,718	3,383	102.45
342	34,200	3,383	102.62
351	35,100	3,383	102.94
<b>CATTLE CREEK TRIBUTARY 3</b>			
012	1,172	743	98.65 <sup>3</sup>
021	2,058	743	100.35

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>CATTLE CREEK TRIBUTARY 3 (continued)</b>			
032	3,201	743	103.42
047	4,660	743	106.78
051	5,141	743	107.81
<b>COWTAIL CREEK</b>			
009	900	1,495	69.87
023	2,250	1,404	70.73
027	2,654	1,404	71.04
045	4,469	1,404	77.09
077	7,749	1,355	77.44
096	9,555	1,355	78.36
100	10,030	1,271	78.90
116	11,647	1,185	82.26
128	12,798	1,185	83.61
137	13,728	975	83.81
146	14,605	975	84.10
156	15,638	975	84.70
169	16,893	718	86.79
174	17,426	718	87.95
178	17,794	718	88.83
182	18,247	718	89.80
187	18,697	718	90.76
202	20,170	718	92.94
210	20,960	718	93.96
214	21,410	718	94.56
223	22,313	718	95.13
<b>COWTAIL CREEK TRIBUTARY 2</b>			
017	1,719	294	82.81
027	2,740	294	83.95
035	3,519	294	85.37
044	4,419	294	86.79
049	4,869	294	87.70
061	6,138	294	90.03
066	6,574	294	91.07
070	7,024	294	92.27
075	7,474	294	93.35
079	7,931	294	94.54
084	8,374	294	95.83
092	9,178	294	97.77
105	10,537	294	98.56
<b>CRAWFORD BRANCH</b>			
010	997	476	63.60
015	1,471	476	64.91
019	1,935	476	66.67
033	3,295	476	71.68
044	4,426	359	76.35
048	4,818	359	77.59

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>CRAWFORD BRANCH (continued)</b>			
052	5,246	359	78.76
059	5,912	359	82.08
<b>DORCHESTER CREEK</b>			
013	1,268	239	29.53
024	2,404	239	34.69
030	2,963	239	38.36
<b>EDISTO RIVER</b>			
1838	183,773	33,381	54.41
1849	184,897	33,381	54.56
1865	186,467	32,766	54.76
1938	193,787	32,757	55.76
2012	201,247	32,735	57.01
2055	205,467	32,735	57.94
2075	207,467	32,680	58.45
2122	212,232	32,646	59.66
2171	217,126	32,646	60.90
2225	222,467	32,646	62.00
2265	226,467	32,646	62.95
2348	234,792	32,585	68.86
2395	239,467	32,585	69.03
2438	243,822	32,578	69.28
2466	246,551	32,547	69.52
2485	248,499	32,547	69.77
2512	251,219	32,547	71.10
2575	257,467	32,533	71.94
2585	258,467	32,533	72.10
2633	263,269	32,525	72.97
2685	268,467	32,495	73.82
2725	272,467	32,495	74.82
2741	274,143	32,495	75.24
2765	276,467	32,495	75.93
2775	277,467	32,486	76.22
2811	281,133	32,486	77.15
2836	283,646	32,451	77.77
2845	284,467	32,451	78.00
2875	287,467	32,451	78.96
2885	288,467	32,451	79.26
2905	290,467	32,154	79.90
2915	291,467	32,154	80.27
2965	296,467	32,138	81.96
2975	297,467	32,138	82.11
3025	302,467	32,138	82.95
3045	304,467	32,138	83.40
3065	306,467	32,138	83.95
3075	307,467	32,138	84.33
3095	309,467	32,120	84.99

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>EDISTO RIVER (continued)</b>			
3115	311,467	32,120	85.60
3135	313,467	32,120	86.06
3176	317,595	32,079	87.06
3195	319,467	32,079	87.47
3202	320,202	32,079	87.63
3265	326,467	32,036	88.91
3275	327,467	32,036	89.09
3298	329,804	32,036	89.51
3317	331,695	32,036	89.90
3325	332,467	32,036	90.03
3346	334,589	32,036	90.55
3363	336,323	32,036	91.11
3385	338,467	32,036	91.76
3395	339,467	32,036	92.02
3412	341,207	32,036	92.40
<b>EDISTO RIVER TRIBUTARY 18</b>			
067	6,674	254	19.70 <sup>3</sup>
085	8,538	254	20.06
102	10,236	254	21.54
134	13,366	488	22.34
152	15,174	953	23.23
176	17,574	854	23.75
189	18,879	854	25.55
206	20,600	749	25.60
213	21,254	749	25.64
<b>FISHBURNE CREEK</b>			
001	1	4,200	8.65
012	1,194	4,173	8.68
025	2,500	4,173	8.70
035	3,502	4,173	8.72
046	4,559	4,105	8.74
076	7,559	4,105	8.82
096	9,559	4,105	8.89
116	11,559	4,073	8.99
126	12,559	4,073	9.05
146	14,559	4,026	9.18
176	17,561	3,981	9.37
196	19,557	3,981	9.61
241	24,135	3,546	10.41
247	24,726	3,546	10.63
252	25,226	3,546	10.80
257	25,725	3,546	10.97
262	26,225	3,546	11.12
267	26,730	3,546	11.31
272	27,230	3,546	11.44
282	28,235	3,546	11.72

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>FISHBURNE CREEK (continued)</b>			
292	29,230	3,546	12.06
302	30,230	3,546	12.44
316	31,550	3,546	12.82
322	32,244	3,546	12.89
327	32,745	3,546	12.93
332	33,245	3,546	12.97
337	33,744	3,546	13.01
343	34,252	3,546	13.08
348	34,753	3,546	13.15
358	35,763	1,453	13.21
368	36,758	1,453	13.23
383	38,256	1,453	13.32
<b>FISHBURNE CREEK TRIBUTARY 2-1</b>			
023	2,263	754	11.49 <sup>3</sup>
035	3,504	754	14.08
042	4,168	685	14.13
047	4,718	685	14.20
063	6,292	659	15.42
<b>FISHBURNE CREEK TRIBUTARY 2-1-1</b>			
020	1,998	146	16.62
027	2,708	146	25.28
<b>FISHBURNE CREEK TRIBUTARY 5</b>			
018	1,770	1,764	13.21
040	4,013	1,764	13.72
058	5,811	1,730	14.10
081	8,090	1,628	14.71
122	12,227	1,021	16.38
145	14,479	994	16.67
167	16,733	924	17.53
181	18,084	924	17.78
199	19,892	767	18.38
226	22,591	767	18.53
249	24,857	486	18.71
257	25,743	486	19.02
267	26,652	486	19.86
276	27,552	486	20.14
285	28,481	486	20.45
294	29,384	486	20.71
303	30,285	486	20.87
313	31,261	360	20.96
322	32,225	360	21.23
<b>FISHBURNE CREEK TRIBUTARY 5-1</b>			
013	1,294	291	14.97
037	3,712	291	16.03
055	5,480	291	17.67
068	6,849	291	18.49

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>FISHBURNE CREEK TRIBUTARY 5-1 (continued)</b>			
082	8,182	291	19.31
092	9,163	291	19.65
<b>FISHBURNE CREEK TRIBUTARY 5-2</b>			
036	3,612	908	16.37
068	6,765	745	16.96
100	9,955	460	17.13
127	12,737	354	17.26
136	13,643	354	17.28
158	15,837	354	17.63
185	18,468	354	18.72
<b>FISHBURNE CREEK TRIBUTARY 5-3</b>			
023	2,263	230	16.75
036	3,614	230	17.32
042	4,163	230	18.81
<b>FISHBURNE CREEK TRIBUTARY 5-4</b>			
041	4,075	367	18.78
054	5,425	367	18.85
072	7,225	367	19.15
090	9,036	29	19.84
104	10,386	29	19.85
108	10,836	29	19.85
<b>FISHBURNE CREEK TRIBUTARY 5-4-1</b>			
030	2,996	206	20.20
036	3,600	206	20.33
041	4,143	206	20.58
047	4,712	206	21.47
053	5,332	206	21.94
059	5,930	206	22.67
069	6,945	206	30.33
072	7,200	206	31.06
<b>FISHBURNE CREEK TRIBUTARY 5-6</b>			
004	415	379	19.32
022	2,211	379	19.37
036	3,562	379	19.43
049	4,913	312	19.48
067	6,715	193	19.55
076	7,612	193	19.56
099	9,868	193	19.64
108	10,815	193	19.81
<b>FISHBURNE CREEK TRIBUTARY 6</b>			
014	1,374	907	14.42 <sup>3</sup>
039	3,900	851	15.43
072	7,200	851	16.57
080	8,022	851	16.76
120	12,048	561	17.51
135	13,479	536	18.04

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>FISHBURNE CREEK TRIBUTARY 6 (continued)</b>			
140	13,972	536	18.16
158	15,763	536	19.06
177	17,739	536	20.11
199	19,889	536	21.86
213	21,343	536	22.15
222	22,212	536	22.35
242	24,186	536	22.49
248	24,787	536	22.49
254	25,364	377	22.49
261	26,109	377	22.49
270	27,032	377	22.50
<b>FISHBURNE CREEK TRIBUTARY 6-1</b>			
023	2,327	380	16.89
031	3,052	380	17.23
046	4,608	333	17.65
057	5,702	266	17.83
067	6,718	266	18.04
074	7,441	266	18.27
<b>FISHBURNE CREEK TRIBUTARY 10</b>			
008	800	171	17.29
044	4,400	171	18.07
056	5,600	171	18.14
076	7,600	171	18.17
096	9,600	379	19.53
108	10,800	379	19.70
128	12,800	379	19.90
144	14,400	452	20.47
156	15,600	452	20.72
<b>FISHBURNE CREEK TRIBUTARY 14</b>			
024	2,429	1,233	22.47
053	5,297	939	22.71
066	6,556	939	23.62
119	11,888	939	24.04
150	15,017	710	24.50
172	17,218	710	24.77
195	19,542	710	25.23
212	21,220	569	26.41
224	22,377	373	27.40
<b>FISHBURNE CREEK TRIBUTARY 14-2</b>			
030	3,002	483	22.38 <sup>3</sup>
045	4,486	281	25.57
068	6,847	281	25.59
086	8,560	281	25.65
096	9,623	281	26.32
103	10,306	281	27.61

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>FISHBURNE CREEK TRIBUTARY 16</b>			
016	1,641	176	35.82
023	2,341	176	39.33
029	2,895	176	41.03
035	3,459	176	44.86
040	3,992	176	47.05
<b>FISHBURNE CREEK TRIBUTARY 17</b>			
010	1,042	235	40.22
017	1,749	235	42.59
024	2,402	235	44.44
038	3,828	235	47.88
043	4,348	235	49.12
054	5,366	235	51.31
059	5,876	235	52.28
<b>FISHBURNE TRIBUTARY 19</b>			
011	1,109	265	44.17
021	2,138	265	46.23
026	2,636	265	48.13
042	4,165	265	52.30
<b>FOUR HOLE SWAMP</b>			
535	53,472	17,063	48.66
585	58,458	17,007	51.25
642	64,190	16,965	51.45
709	70,940	16,907	51.97
739	73,897	16,888	52.26
779	77,923	16,849	52.61
813	81,310	16,758	52.92
840	84,020	16,637	53.18
880	88,020	16,615	53.73
910	91,047	16,596	54.23
942	94,185	16,596	54.66
982	98,185	16,514	55.40
1012	101,185	16,414	56.09
1040	103,992	16,341	56.61
1072	107,185	16,341	57.23
1119	111,909	14,242	58.36
1151	115,062	14,242	58.94
1163	116,256	14,242	59.20
1172	117,239	14,242	59.47
1183	118,294	14,242	59.75
1191	119,099	14,242	59.95
1198	119,799	14,016	60.16
1212	121,191	14,016	60.71
1224	122,409	14,016	61.27
1234	123,361	14,016	61.65
1245	124,513	14,016	62.03
1257	125,674	14,016	62.43

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>FOUR HOLE SWAMP (continued)</b>			
1280	128,018	13,943	63.21
1291	129,104	13,943	63.51
1329	132,893	13,943	64.57
1356	135,645	13,509	65.45
1376	137,584	13,509	66.50
1398	139,801	13,509	67.05
1422	142,208	13,509	74.52
1431	143,143	13,460	74.53
1441	144,138	13,460	74.54
1459	145,872	13,347	74.56
1469	146,912	13,347	74.57
1480	147,986	13,347	74.59
1490	149,031	13,285	74.60
1512	151,230	13,285	74.66
1522	152,192	13,285	74.68
1532	153,175	13,285	74.70
1541	154,126	13,060	74.73
1551	155,078	13,035	74.77
1560	156,015	13,035	74.82
1577	157,712	13,035	74.95
1584	158,438	13,035	75.02
1593	159,284	13,035	75.14
1616	161,583	12,683	75.65
1653	165,283	12,657	81.20
1671	167,085	12,657	81.25
1681	168,054	12,657	81.28
1692	169,159	12,163	81.33
1711	171,134	12,163	81.44
1722	172,157	12,163	81.50
1741	174,117	12,163	81.68
1750	174,950	12,163	81.78
<b>FOUR HOLE SWAMP TRIBUTARY 2-1</b>			
011	1,123	713	53.65
027	2,740	713	55.22
036	3,553	594	55.99
044	4,360	594	56.73
<b>FOUR HOLE SWAMP TRIBUTARY 2-2</b>			
039	3,945	405	40.36
044	4,411	405	43.33
050	5,000	405	44.85
053	5,289	405	45.54
<b>FOUR HOLE SWAMP TRIBUTARY 8</b>			
054	5,433	989	76.34
068	6,752	989	76.49
074	7,382	989	76.99

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>FOUR HOLE SWAMP TRIBUTARY 10</b>			
042	4,249	1,765	75.88 <sup>3</sup>
051	5,149	1,765	76.47
056	5,599	1,765	76.90
065	6,506	1,724	77.60
074	7,360	1,724	78.56
089	8,872	1,724	81.42
093	9,281	1,724	82.12
105	10,524	1,724	86.11
112	11,174	1,724	86.12
117	11,749	981	86.13
124	12,404	939	86.15
132	13,167	939	86.20
143	14,347	939	86.93
149	14,950	845	87.91
167	16,679	845	89.50
173	17,305	845	90.59
185	18,544	845	92.60
191	19,136	845	94.17
204	20,406	521	95.42
216	21,628	521	96.94
223	22,269	521	97.43
229	22,893	484	97.99
235	23,472	484	98.93
241	24,094	484	99.64
250	25,049	484	101.27
266	26,566	484	104.80
272	27,199	484	104.92
276	27,616	484	104.99
282	28,202	484	105.05
289	28,945	484	105.16
302	30,209	484	108.06
308	30,846	312	108.64
313	31,345	312	109.01
323	32,292	312	109.52
335	33,493	312	109.75
340	33,961	312	110.41
346	34,572	312	111.17
352	35,190	312	111.44
<b>FOUR HOLE SWAMP TRIBUTARY 10-4</b>			
027	2,732	687	86.65
033	3,269	687	87.48
043	4,250	687	88.90
047	4,722	687	89.40
061	6,099	687	89.71
072	7,216	559	89.80

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>GREEN BAY BRANCH</b>			
275	27,508	313	68.52
281	28,068	313	68.88
285	28,514	313	69.14
290	28,958	313	69.46
298	29,800	313	72.01
<b>GUM BRANCH</b>			
012	1,187	1,720	57.14 <sup>3</sup>
025	2,488	1,720	57.62
038	3,828	1,720	58.30
053	5,271	1,720	59.06
064	6,401	1,401	60.16
078	7,835	1,401	61.86
094	9,372	1,262	63.15
112	11,161	1,250	66.53
133	13,318	1,250	67.16
148	14,850	1,161	68.48
159	15,866	1,161	70.05
179	17,867	1,161	71.73
189	18,867	1,076	72.87
203	20,300	1,076	74.97
217	21,705	1,076	76.80
228	22,807	1,076	77.69
248	24,847	770	78.50
269	26,862	770	80.04
283	28,320	710	81.24
304	30,361	587	82.45
314	31,373	587	82.83
324	32,379	587	83.84
329	32,881	587	84.61
354	35,369	587	85.42
364	36,385	480	87.27
369	36,886	480	89.66
379	37,875	480	90.49
394	39,381	480	90.51
399	39,885	480	90.51
414	41,427	480	92.62
<b>GUM BRANCH TRIBUTARY 1</b>			
009	906	495	77.80 <sup>3</sup>
027	2,725	495	78.42
041	4,077	495	80.82
064	6,355	495	81.50
083	8,286	342	81.99
095	9,504	342	86.62
114	11,414	342	86.66
<b>GUM BRANCH TRIBUTARY 2</b>			
003	348	667	59.14 <sup>3</sup>

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>GUM BRANCH TRIBUTARY 2 (continued)</b>			
014	1,407	667	61.38
024	2,365	667	63.35
028	2,818	667	64.44
033	3,268	667	65.55
037	3,718	667	66.78
042	4,168	667	67.89
046	4,622	667	68.98
060	5,973	594	71.57
064	6,423	594	72.01
073	7,288	594	72.80
094	9,367	594	75.60
<b>HALFWAY GUT CREEK</b>			
036	3,626	1,130	44.62
041	4,050	1,130	45.56
046	4,567	1,130	46.64
066	6,560	1,044	50.21
073	7,322	1,044	53.64
<b>HURRICANE BRANCH</b>			
245	24,543	818	71.93
248	24,839	818	72.15
252	25,240	818	72.50
<b>INDIAN FIELD SWAMP</b>			
005	500	7,441	43.90
030	3,000	7,441	47.03
040	4,000	7,441	47.42
050	5,000	7,430	47.79
156	15,594	5,725	53.53
185	18,461	5,682	53.88
205	20,461	5,682	54.30
225	22,461	5,540	55.04
250	24,961	5,507	55.63
270	26,961	5,507	56.23
289	28,923	5,507	56.83
300	29,961	4,912	57.12
325	32,461	4,912	57.70
339	33,870	4,912	58.07
365	36,461	4,729	58.65
384	38,394	4,663	59.14
405	40,494	4,663	60.19
420	41,961	4,663	60.96
442	44,208	4,569	61.81
469	46,940	4,047	65.86
490	48,961	4,047	66.00
520	51,961	3,979	66.28
540	53,961	3,979	66.65
560	55,961	3,943	67.04

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>INDIAN FIELD SWAMP (continued)</b>			
584	58,378	3,943	67.97
589	58,867	3,801	68.25
601	60,144	3,801	68.75
615	61,461	3,508	69.24
635	63,461	3,508	70.05
654	65,448	3,508	71.14
670	66,961	3,508	72.06
693	69,308	3,339	73.18
711	71,149	3,339	74.06
728	72,771	3,227	75.56
740	73,961	3,227	76.17
763	76,262	3,102	78.01
780	78,011	3,102	79.00
800	79,961	3,102	79.95
820	81,961	3,020	81.12
833	83,323	3,020	82.51
855	85,528	2,644	83.38
870	86,961	2,531	84.38
880	87,961	2,531	85.36
885	88,461	2,531	85.90
900	89,961	2,531	87.45
917	91,651	2,174	90.42
955	95,461	2,069	91.53
960	95,961	2,069	91.91
965	96,461	2,069	92.21
970	96,961	2,069	92.52
980	97,961	1,850	93.22
990	98,961	1,850	94.07
995	99,461	1,850	94.46
1000	99,961	1,818	94.93
1009	100,929	1,818	95.81
1015	101,461	1,818	96.21
1020	101,961	1,818	96.68
1025	102,461	1,750	97.22
1030	102,961	1,750	97.63
1034	103,390	1,750	98.08
1045	104,461	1,750	99.54
1050	104,961	1,690	99.77
1055	105,461	1,690	100.00
1060	105,961	1,690	100.28
1065	106,461	1,690	100.68
1069	106,911	1,690	101.04
1075	107,461	1,690	101.82
<b>INDIAN FIELD SWAMP TRIBUTARY 4</b>			
032	3,150	912	91.53
036	3,600	912	92.04

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>INDIAN FIELD SWAMP TRIBUTARY 4 (continued)</b>			
041	4,050	893	92.52
045	4,500	893	93.05
050	4,950	893	93.60
055	5,524	893	94.53
063	6,300	893	95.42
068	6,750	893	96.07
083	8,337	783	98.72
090	9,000	783	99.15
095	9,539	783	99.93
100	9,961	783	100.35
115	11,502	783	102.35
120	12,033	783	102.66
133	13,347	783	104.89
140	13,950	783	105.50
144	14,413	783	106.00
156	15,560	783	107.25
162	16,200	783	108.51
171	17,100	783	109.54
180	17,996	783	110.64
<b>INDIAN FIELD SWAMP TRIBUTARY 6</b>			
022	2,250	965	83.15
037	3,654	878	84.97
049	4,853	878	86.65
066	6,596	878	87.05
075	7,523	878	87.38
081	8,075	878	87.86
098	9,789	355	91.29
103	10,269	355	93.17
107	10,732	355	93.81
120	12,041	355	96.14
125	12,521	314	96.82
134	13,429	314	98.63
143	14,324	314	99.82
153	15,273	314	101.29
157	15,717	314	102.58
162	16,159	314	103.48
166	16,612	314	104.39
170	17,020	314	105.47
<b>KELLY BRANCH</b>			
010	983	492	30.44
013	1,288	478	31.56
025	2,505	478	32.84
034	3,435	478	34.88
040	4,005	478	36.04
045	4,504	478	37.30
055	5,537	478	39.13

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>KELLY BRANCH (continued)</b>			
060	6,028	478	40.06
069	6,927	478	43.95
075	7,522	478	45.40
083	8,338	478	47.25
<b>LITTLE WALNUT BRANCH</b>			
009	931	1,218	53.37
018	1,812	1,218	54.95
023	2,259	1,218	55.52
027	2,710	1,218	56.21
036	3,608	1,218	57.76
050	4,986	1,218	59.20
063	6,292	1,218	60.81
068	6,758	895	61.65
078	7,822	895	62.97
090	8,950	895	67.10
105	10,465	895	69.04
118	11,814	895	70.37
131	13,149	895	71.86
136	13,600	895	72.51
141	14,053	895	73.14
150	14,951	895	74.32
158	15,843	787	75.26
167	16,736	787	76.36
178	17,792	668	77.38
<b>MARSHALL BRANCH</b>			
003	341	421	44.84 <sup>3</sup>
009	915	421	46.73
018	1,849	421	52.18
026	2,563	421	52.88
031	3,134	421	54.72
036	3,633	421	57.07
041	4,069	421	59.02
051	5,071	313	64.02
056	5,577	313	65.41
066	6,589	313	71.39
071	7,093	313	74.29
076	7,584	313	77.46
081	8,084	313	79.35
086	8,585	313	81.62
091	9,086	313	84.88
096	9,585	313	87.49
101	10,108	313	89.92
106	10,593	313	92.48
112	11,167	313	96.36
115	11,530	313	97.54
119	11,880	313	98.28

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>MCCHUNE BRANCH</b>			
053	5,261	316	12.85
<b>MCKEOWN BRANCH</b>			
010	1,000	686	32.07
015	1,501	686	32.98
025	2,501	643	35.00
035	3,500	643	36.90
045	4,500	643	38.64
055	5,530	643	40.86
063	6,322	643	42.61
075	7,495	643	47.31
090	8,995	505	49.14
100	9,995	505	51.30
109	10,905	505	52.90
115	11,496	505	54.27
126	12,606	505	56.85
<b>NEGRO BRANCH</b>			
164	16,439	611	73.64
171	17,100	611	74.99
172	17,244	611	74.99
<b>POLK SWAMP (DOWNSTREAM)</b>			
080	7,992	3,652	52.91
098	9,792	3,652	53.67
116	11,592	3,600	54.26
152	15,192	3,503	55.00
176	17,615	3,444	56.10
212	21,192	3,425	57.77
220	22,032	3,366	58.15
236	23,592	3,366	58.95
242	24,192	3,225	59.22
266	26,592	3,225	60.19
285	28,480	3,025	61.34
308	30,792	3,025	62.17
<b>POLK SWAMP (UPSTREAM)</b>			
722	72,193	1,501	98.81
728	72,793	1,501	99.29
734	73,398	1,501	99.86
740	74,011	1,501	100.55
753	75,301	1,340	102.34
759	75,903	1,340	103.02
771	77,147	1,340	104.88
785	78,489	1,301	106.90
796	79,621	1,301	108.61
803	80,274	1,301	109.72
817	81,680	1,128	112.26
836	83,555	1,101	116.80
843	84,315	1,101	117.32

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>POLK SWAMP (UPSTREAM) (continued)</b>			
855	85,534	1,007	118.51
868	86,754	1,007	121.09
<b>POLK SWAMP TRIBUTARY 5</b>			
011	1,086	704	61.34 <sup>3</sup>
026	2,567	704	65.29
041	4,103	596	66.45
045	4,516	596	67.03
051	5,097	596	68.79
055	5,524	487	70.41
063	6,349	487	75.10
077	7,668	487	76.00
<b>POLK SWAMP TRIBUTARY 6</b>			
004	357	670	74.52 <sup>3</sup>
010	1,022	670	75.56
014	1,427	670	76.42
026	2,572	670	78.95
033	3,263	670	80.80
037	3,738	670	82.02
046	4,578	670	83.79
056	5,560	670	85.55
060	6,030	670	86.67
065	6,540	670	87.48
069	6,935	670	88.05
077	7,728	558	89.75
087	8,735	558	90.27
091	9,078	558	91.28
109	10,878	558	93.79
116	11,620	399	93.80
<b>POLK SWAMP TRIBUTARY 8</b>			
009	900	469	92.52 <sup>3</sup>
014	1,350	469	92.73
028	2,811	469	97.34
034	3,411	469	97.80
041	4,054	469	98.65
050	5,006	469	101.51
057	5,692	469	102.18
067	6,715	469	102.77
073	7,253	469	104.01
083	8,260	320	105.04
096	9,644	320	106.22
105	10,484	320	107.75
119	11,946	320	111.34
123	12,299	320	112.24
<b>RANTOWLES CREEK</b>			
036	3,623	5,398	6.98
071	7,137	4,200	7.35

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>RANTOWLES CREEK (continued)</b>			
104	10,378	4,200	8.16
<b>RAVEN HILL TRIBUTARY</b>			
074	7,361	2,147	9.69
105	10,464	2,147	10.40
128	12,799	2,147	11.02
134	13,378	2,147	11.07
164	16,382	2,147	11.76
184	18,364	1,887	12.07
204	20,384	1,758	13.65
225	22,469	1,758	13.73
264	26,394	127	14.42
311	31,117	34	15.36
354	35,382	34	15.47
<b>RUMPHS HILL CREEK</b>			
374	37,431	473	65.93
378	37,834	473	66.53
384	38,418	473	67.34
393	39,292	473	68.62
<b>SAWMILL BRANCH TRIBUTARY 1</b>			
017	1,667	589	46.39 <sup>s</sup>
020	2,036	589	46.39 <sup>s</sup>
026	2,623	528	48.55
033	3,260	528	49.81
042	4,166	369	52.74
050	4,977	369	55.16
060	6,036	369	58.51
067	6,692	369	61.66
075	7,459	369	65.87
081	8,097	369	76.43
082	8,198	369	76.43
090	8,985	369	76.49
091	9,055	369	76.75
097	9,700	369	78.64
106	10,565	369	79.48
<b>SAWMILL BRANCH TRIBUTARY 3</b>			
030	3,013	441	34.63
036	3,580	441	39.27
041	4,076	441	42.03
044	4,382	441	44.40
051	5,082	441	49.47
055	5,492	441	55.25
057	5,730	441	66.25
<b>SCOTTS BRANCH</b>			
071	7,130	1,153	19.26
080	8,007	698	19.46
091	9,133	349	19.54

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>SCOTTS BRANCH (continued)</b>			
101	10,103	349	20.44
112	11,234	349	22.44
121	12,060	349	24.25
<b>SPRING BRANCH</b>			
012	1,247	983	69.16 <sup>3</sup>
029	2,940	983	69.71
036	3,600	983	70.69
042	4,191	983	73.09
054	5,388	983	74.08
080	7,963	670	75.09
102	10,238	623	75.63
123	12,260	623	76.25
<b>TIMOTHY CREEK</b>			
218	21,764	1,541	52.79
238	23,828	1,541	53.55
246	24,574	1,168	53.84
261	26,125	1,168	54.73
268	26,810	1,168	55.29
279	27,920	1,168	59.49
<b>TING BRANCH</b>			
025	2,541	665	23.02 <sup>3</sup>
054	5,429	665	23.02 <sup>3</sup>
066	6,588	665	23.15
078	7,774	665	24.73
094	9,427	665	26.81
100	9,990	665	27.32
113	11,318	665	29.55
118	11,763	665	31.12
127	12,737	530	33.51
138	13,776	380	34.87
144	14,377	380	36.85
153	15,343	380	40.19
169	16,925	314	43.22
175	17,497	314	44.79
182	18,180	314	47.26
<b>TRIBUTARY NO. 1</b>			
017	1,677	159	54.66
018	1,775	159	55.07
<b>TRIBUTARY 1 TO SCOTTS CREEK</b>			
031	3,095	943	20.45
040	3,995	943	20.84
057	5,696	871	21.00
070	6,987	871	21.09
092	9,226	871	21.70
098	9,789	871	22.15
108	10,785	871	22.91

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>TRIBUTARY 1 TO SCOTTS CREEK (continued)</b>			
126	12,595	871	23.65
137	13,657	871	24.26
154	15,378	757	24.75
182	18,206	757	26.32
191	19,122	757	27.17
216	21,579	643	30.05
230	23,025	643	31.23
237	23,683	643	32.15
247	24,739	643	33.90
262	26,199	533	35.88
267	26,718	533	36.49
282	28,234	378	39.87
286	28,648	378	40.91
294	29,445	204	42.93
300	29,990	204	44.67
304	30,435	204	46.72
309	30,915	204	48.88
316	31,569	204	51.49
324	32,432	204	54.32
<b>TRIBUTARY 1 TO WATSON HILL TRIBUTARY</b>			
017	1,680	1,606	13.75 <sup>3</sup>
026	2,589	1,606	13.75 <sup>3</sup>
038	3,804	1,647	13.75 <sup>3</sup>
051	5,057	1,647	13.75 <sup>3</sup>
056	5,630	1,321	13.75 <sup>3</sup>
060	6,039	1,321	13.75 <sup>3</sup>
<b>TRIBUTARY NO. 3</b>			
064	6,445	310	14.46
073	7,328	310	15.33
<b>TRIBUTARY NO. 4</b>			
017	1,750	124	67.11
019	1,859	124	67.18
020	1,960	124	67.23
021	2,051	124	67.36
<b>TRIBUTARY NO. 5</b>			
023	2,273	195	64.23
029	2,894	195	64.55
<b>UNNAMED TRIBUTARY TO ASHLEY RIVER</b>			
177	17,726	177	55.15
<b>UNNAMED TRIBUTARY 27</b>			
027	2,713	641	13.02
046	4,592	641	13.91
053	5,267	641	14.30
058	5,787	432	14.49
<b>WALNUT BRANCH</b>			
018	1,777	2,623	48.66 <sup>3</sup>

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>WALNUT BRANCH (continued)</b>			
037	3,709	2,623	48.66 <sup>3</sup>
050	5,024	2,495	48.66 <sup>3</sup>
061	6,082	2,495	48.66 <sup>3</sup>
072	7,209	2,495	48.66 <sup>3</sup>
083	8,342	2,495	48.66 <sup>3</sup>
095	9,529	2,310	49.19
101	10,096	2,310	49.76
106	10,561	2,310	50.20
115	11,538	2,310	50.80
125	12,470	2,310	51.48
134	13,360	2,310	52.07
152	15,234	1,565	53.91
161	16,134	1,565	54.71
175	17,540	1,565	58.71
194	19,351	1,565	59.32
208	20,796	1,069	60.46
225	22,506	1,069	61.65
233	23,327	1,069	62.84
237	23,701	1,069	63.36
245	24,521	1,069	69.41
261	26,092	1,069	69.64
274	27,429	1,069	70.55
285	28,499	1,069	72.73
295	29,540	1,069	74.98
299	29,937	1,069	75.62
305	30,458	1,069	76.76
309	30,875	1,069	77.47
<b>WALNUT BRANCH TRIBUTARY 1</b>			
012	1,177	537	50.42
018	1,781	537	52.25
025	2,510	537	54.31
030	2,992	537	55.76
034	3,445	501	57.39
039	3,881	501	58.73
044	4,435	501	60.56
051	5,138	501	65.61
<b>WALNUT BRANCH TRIBUTARY 3</b>			
007	679	369	69.50 <sup>3</sup>
017	1,717	369	76.34
039	3,871	369	76.39
047	4,740	369	87.79
068	6,764	369	87.80
<b>WATSON HILL TRIBUTARY</b>			
140	13,977	2,667	9.18
219	21,873	2,667	10.61
247	24,685	2,667	11.31

**TABLE 9—Limited Detailed Flood Hazard Data**

<b>Cross Section<sup>1</sup></b>	<b>Stream Station<sup>2</sup></b>	<b>Flood Discharge (cfs)</b>	<b>1% Annual Chance Water-Surface Elevation (feet NAVD 88)</b>
<b>WATSON HILL TRIBUTARY (continued)</b>			
260	25,953	2,667	11.57
266	26,630	2,667	11.65
272	27,211	2,667	11.73
278	27,789	2,667	11.83
287	28,746	2,667	11.97
296	29,569	2,667	12.05
301	30,118	2,667	12.08
310	31,018	2,667	12.14
318	31,819	2,667	12.21
327	32,718	2,667	12.29
333	33,343	2,667	12.35
338	33,807	2,667	12.39
435	43,492	2,381	13.36
440	43,992	2,381	13.46
445	44,492	2,381	13.57
450	44,992	2,381	13.68
455	45,492	941	13.73
461	46,119	941	13.74
467	46,656	941	13.76
476	47,563	941	13.84
480	47,992	941	13.87
485	48,492	941	13.90
492	49,173	941	13.94

<sup>1</sup> This table reflects all modeled cross sections. Some cross sections shown in this table may not appear on map.

<sup>2</sup> Feet above mouth.

<sup>3</sup> Elevation includes backwater effects.

## 5.0 INSURANCE APPLICATIONS

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

### Zone A

Zone A is the flood insurance rate zone that corresponds to the 1-percent-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 (1-percent-annual-chance) flood elevations (BFEs) or depths are shown within this zone.

### Zone AE

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

### Zone X

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

## 6.0 FLOOD INSURANCE RATE MAP

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

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

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

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

## 7.0 OTHER STUDIES

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

## 8.0 LOCATION OF DATA

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

COMMUNITY NAME	INITIAL IDENTIFICATION	FLOOD HAZARD BOUNDARY MAP REVISIONS DATE	FIRM EFFECTIVE DATE	FIRM REVISIONS DATE
Dorchester County (Unincorporated Areas)	December 23, 1977	June 4, 1976 October 23, 1977	January 6, 1982	April 15, 1994
Hartleyville, Town of <sup>1</sup>	May 24, 1974	June 4, 1974	October 26, 1979	
Reevesville, Town of <sup>2</sup>	December 27, 1974	None	None	
Ridgeville, Town of <sup>2</sup>	May 31, 1974	None	None	
St. George, Town of <sup>2</sup>	July 23, 1976	None	None	
Summerville, Town of	June 14, 1974	April 9, 1976 June 3, 1977	December 12, 1985	

<sup>1</sup> Non flood prone

<sup>2</sup> This community does not have map history prior to the first countywide mapping

FEDERAL EMERGENCY MANAGEMENT AGENCY

**COMMUNITY MAP HISTORY**

**DORCHESTER COUNTY, SC  
AND INCORPORATED AREAS**

**TABLE 10**

## 9.0 REFERENCES

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2. Federal Emergency Management Agency, Federal Insurance Administration, Flood Insurance Study for Town of Summerville, South Carolina, December 1985.
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