

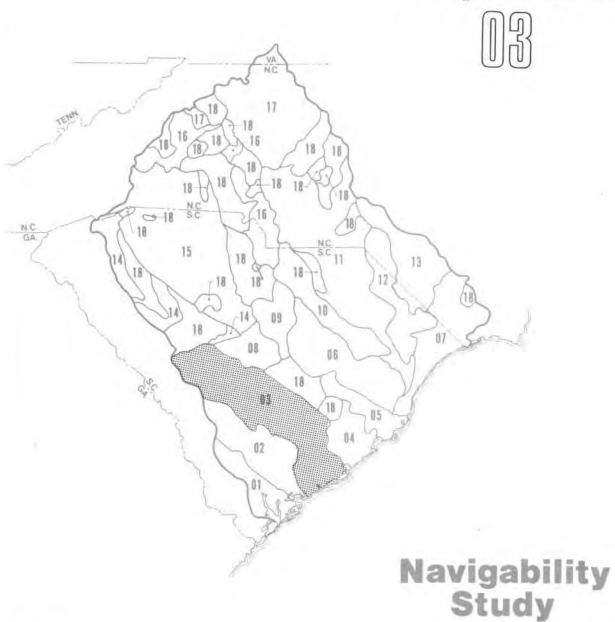
U.S. ARMY CORPS OF ENGINEERS CHARLESTON DISTRICT Charleston, South Carolina



EDISTO RIVER AREA

Report No.

1977





STANLEY CONSULTANTS

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SECTION 1 - INTRODUCTION

Purpose

The purpose of this study is to collect, develop, and evaluate information on waterbodies within the boundaries of the Charleston District, Corps of Engineers, for establishing the classification of "navigable waters of the U. S." and "waters of the U. S." (During the course of this study the term "navigable waters" was changed to "waters of the U. S." Herein references to "navigable waters" are synonymous with "waters of the U. S.") Study objectives include definition of the present head of navigation, the historic head of navigation, the potential head of navigation, and the headwaters of all waterbodies within the district.

The information generated as a part of the study will be utilized by the Charleston District in administration of its programs dealing with water resource project construction permits in "navigable waters of the U. S." (River and Harbor Act of 1899), and the deposition of dredge or fill material in "navigable waters" or their contiguous wetlands (Section 404 of PL 92-500).

Scope

The scope of this project is generally summarized by the following:

- Outline drainage areas, locate headwater points where mean flow is five cubic feet per second (cfs), summarize lake data (10 to 1,000 acres), establish stream mileage for "navigable waters of the U. S.", and prepare a stream catalog summary for the district.
- Conduct field surveys of waterbodies to establish mean water levels and obstruction clearances for evaluating the potential head of navigation.
- Analyze available hydrological data to estimate mean, maximum, and minimum discharge rates at obstructions and other selected locations.
- Conduct a literature review to identify past, present, and future uses of waterbodies for interstate commerce.

- Conduct a legal search to identify Federal and state court cases which impact on navigation classifications.
- Prepare plan and profile drawings, maps of the district showing significant physical features, and a map delineating the recommended navigation classifications.
- 7. Prepare reports on all major river basins and large lakes (greater than 1,000 acres) including information on physical characteristics, navigation projects, interstate commerce, court decisions, navigation obstructions, and recommended classification of waterbodies for navigation.
- 8. Prepare a summary report outlining navigation-related information for the entire district as well as the methodology, procedures, and other factors pertinent to the development of each of the river basin reports.

Conduct of this study relies heavily upon available information. Compilation and evaluation of existing data from many sources and development of field survey information are the main contributions to the new water resource data base represented by this study.

Related Reports

Information pertaining to this navigability study for the Charleston District has been compiled into a series of reports, one of which is represented by this document. A complete listing of the reports is presented below to facilitate cross referencing.

Number	Title
	Summary Report
01	Coosawhatchie River Area
02	Combahee River Area
03	Edisto River Area
04	Cooper River Area
05	Santee River Basin
06	Black River Area
07	Waccamaw River Basin
08	Congaree River Basin
09	Wateree River Basin
10	Lynches River Basin

Number	Title
11	Great Pee Dee River Basin
12	Little Pee Dee River Basin
13	Lumber River Basin
14	Saluda River Basin
15	Broad River Basin
16	Catawba River Basin
17	Yadkin River Basin
18	Lakes - Greater Than 1,000 Acres
	Coastal Supplement

The eighteen reports covering various drainage areas in the district present information for the specific basins. The Summary Report provides an overview of the entire study of district waterbodies and presents information applicable to all waters in the district. Reference should be made to both the individual drainage area reports as well as the Summary Report to obtain a thorough understanding of the study approach and results.

Acknowledgements and Data Sources

The contribution of many project team members within the Corps of Engineers, Charleston District, and Stanley Consultants is gratefully acknowledged by Stanley Consultants. In addition to the legal search and other evaluations and input from Charleston District staff, several others made significant contributions to this study effort. Dr. John W. Gordon, Assistant Professor in the Department of History, The Citadel, prepared the narrative and literature review information for past and present interstate commerce.

Several state water resource, transportation, utility, and planning agencies also cooperated and provided useful data for compiling these reports. Federal water resource and regulatory agencies and private utilities provided information along with public and private operators of large reservoirs.

Specific numbered data sources are referenced in the reports in parentheses. These data sources are listed in the Bibliography of each report of the navigation study.

SECTION 2 - PHYSICAL CHARACTERISTICS

As shown on Plate 03-1, the Edisto River basin is located in the south central portion of South Carolina and bordered by the Combahee River basin on the west and the Cooper and Congaree River basins, as well as Lakes Moultrie and Marion on the east. The headwaters of the basin are located near the fall line which divides the Coastal Plain and Piedmont Plateau. The river mouth empties to the Atlantic Ocean. The largest river in the basin is the Edisto River which is formed by the confluence of the South and North Fork Edisto Rivers at river mile (R.M.) 113. The South and North Forks are also large rivers and extend upstream another 83 and 82 miles, respectively. From the confluence of the North and South Forks, the Edisto River flows to R.M. 21 where it divides into the Dawho River and South Edisto River. Dawho River flows easterly and in conjunction with other rivers and tributaries forms the North Edisto River. South Edisto River continues on a southerly course to the northern shore of St. Helena Sound. Four Hole Swamp, the Intracoastal Waterway, Charleston Harbor, Ashley River, Abbapoola Creek, Russell Creek, and Adams Creek are other waterbodies in the Edisto River area and are discussed further in Sections 5 and 6. There are many more rivers and streams located in the area, especially near the coast; however, emphasis has been primarily placed on large rivers that extend inland. Plates 03-2 through 03-4 show the significant features in the Edisto River area. Additional information on the Combahee, Cooper, and Congaree Rivers, as well as Lakes Moultrie and Marion, is presented in Reports 02, 04, 08, and 18, respectively.

The Edisto River lies entirely in the coastal lowlands and is generally characterized by low, occasionally submerged, tree lined flood plains. As the river nears the ocean, the flood plains turn to grassy marshes. The North and South Forks for the most part have irregularly defined channel sections which vary in width and depth.

Table 1 presents selected key physical characteristics, such as approximate drainage areas, mean water flows, and elevation changes for the Edisto River and some of the major tributaries. The methodology

used in developing these characteristics is defined in the Summary
Report. Table 2 presents information on the USGS gaging stations
located in the Edisto River area. Additional flows, river miles, and
slopes are presented in Section 6.

TABLE 1

PHYSICAL CHARACTERISTICS (1)(2)(3)*

Stream & Code	Length-Mouth to Headwaters (mi)	Elevation Change (ft)	Drainage Area (sq.mi)	Mean Discharge at Mouth (cfs)	Limit of Tidal Influence (R.M.)	Confluence With Edisto River (R.M.)	Present Navi- gable Waters of the U. S. (R.M.)
Edisto 03-01	113 ²⁾	100 ²)	3,0004)	3,300 ⁴⁾	37.0		113.0
South Fork Edisto 03-01-38	83 ³⁾	400	870	1,050	None	113.0	41.0
North Fork Edisto 03-01-37	823)	380	770	920	None	113.0	27.2
Four Hole Swamp 03-01-32	56	30	660	800	None	62.0	5.0
Ashley 03-14	55	40	340	375	36.0	44	40.0

¹⁾ See Summary Report for explanation of code.

²⁾ From mouth at St. Helena Sound to confluence of South and North Fork Edisto Rivers.

From the confluence with the Edisto River to a remote point in the indicated stream basin having a mean annual flow of five cfs.

⁴⁾ Value is for entire drainage basin of the Edisto River including all tributaries.

^{*} See Bibliography for these references.

TABLE 2
KEY STREAM GAGING STATIONS (1)(4)

Stream	USGS Gaging Station Number	Location Description	Drainage Area (sq.mi.)	Mean Flow (cfs)	Minimum Flow1) (cfs)	Maximum Flow ² (cfs)
Edisto River	02174000	Located near Branch- ville, S. C., Bamberg Co. at U. S. Highway 21 Bridge, 4.7 miles downstream from Brier Branch	1,720	2,035	730	3,950
Edisto River	02175000 ³⁾	Located near Givhans S. C., Dorchester Co. at S. C. Highway 61 Bridge, 2.3 miles down- stream from Four Hole Swamp	2,730	2,690	720	5,800
North Fork Edisto River	02173500	Located at Orangeburg, S. C., Orangeburg Co. at U. S. 301 bridge near SCL RR Bridge	683	797	350	1,360

¹⁾ Exceeded or equaled 90 percent of the time

²⁾ Exceeded or equaled 10 percent of the time.

³⁾ Water supply diversion just upstream of station.

SECTION 3 - NAVIGATION IMPROVEMENT PROJECTS

Federal Navigation Projects

Eight Federal navigation projects have been authorized on streams in the Edisto River area. The only project on the Edisto River provided for the removal of snags and shoals and for channel rectification by cutting off bends and closing lateral channels to provide a clear channel suitable for light draft steamers from the sea to the junction of the North and South Forks, and suitable for rafts and flatboats on South Fork from the junction of the Forks to Guignards Landing at R.M. 154. (River mileage from Edisto River is continued on South Fork Edisto River. A 20-mile discrepancy involving the river mileage of the project location exists between reference sources. As discussed in the Summary Report, the source of river mileage used for presentation in this study sometimes differs from river mileage referred to in authorized project information.) Work was discontinued in 1896, except for minor maintenance in 1905 and 1938, after completion of the project. In 1938, the river was reported as partially obstructed with sunken logs and fallen trees and navigable only for shallow craft. No further funds or work were proposed at that time. (5)

The seven other navigation projects located on streams within the report area are briefly described below. (3)(5)(6) Table 3 summarizes all eight projects.

The Atlantic Intracoastal Waterway between Norfolk, Virginia, and St. Johns River, Florida, provides for a 12 feet deep and 90 feet wide waterway at mean low water along several coastal streams within the Edisto area. The waterway enters the Edisto area from the Cooper River basin, on Wapoo Creek near the mouth of the Ashley River. It flows along Wapoo Creek for a short distance to Elliott Cut, along Elliott Cut to the Stono River, and along Stono River to the Wadmalaw River. The waterway proceeds along the Wadmalaw to Dawho River, along Dawho River to North Creek and through Watts Cut to the South Edisto River. The waterway continues through Fenwick Cut where it flows into the Combahee basin (see Report 02). The project was completed in 1940.

Surveys made during May-September, 1975, showed controlling depths of 7.2 feet and widths of 90 feet in the Edisto basin area.

The Charleston Harbor project, located partially within the Edisto basin boundary, provides for a channel 35 feet deep from the Atlantic Ocean to the mouth of Goose Creek (26.3 miles) with varying widths, a turning basin 700 feet wide at the Port Terminals, and a channel 35 feet deep and 500 feet wide through Town Creek; also a channel in Shem Creek 10 feet deep and 110 feet wide from a flared entrance from Hog Island Channel to and including a turning basin 130 feet wide and 400 feet long; thence 10 feet deep and 90 feet wide to the bridge on U. S. Highway 17; also a channel 10 feet deep and 90 feet wide in Hog Island Channel from Shem Creek to the Atlantic Intracoastal Waterway. The project also includes two entrance jetties of stone on log mattress foundations; the north jetty 15,443 feet long and the south jetty 19,104 feet long; the distance between the outer end is 2,900 feet. The project also provides for national defense a proposed 40-foot channel from the sea to the Commandant's Wharf with varying widths; also an anchorage area 30 feet deep in the area between Castle Pinckney and Fort Moultrie; to be prosecuted only as found necessary in the interest of national defense. The project is completed except for a portion of the anchorage basin and the 40-foot national defense project. The controlling depth as of 1975 was 35.0 feet in the entrance channel and Cooper River; and 11.7 feet in Shem Creek.

An aquatic plant control project provided for a program leading to the control and eradication of the water-hyacinth, alligatorweed, and other obnoxious aquatic plant growths in the combined interest of navigation, flood control, drainage, agriculture, fish and wildlife conservation, public health and related purposes including research for development of the most effective and economic control measures. Approximately 27 miles of the North Fork Edisto River were treated before activities were suspended in 1975, pending receipt of an exemption from the Environmental Protection Agency for the use of 2, 4-D in flowing waters.

A project on the Ashley River provided for a channel 30 feet deep, 300 feet wide, and 7.4 miles long at mean low water and suitably widened at bends and at the head of the improvement. The project was completed in 1940. A survey made of the main channel during 1975 indicated a controlling depth of 15.0 feet from the mouth to R.M. 3.0, and 14.3 feet from R.M. 3.0 to the head of the project.

The fifth project, located on Abbapoola Creek, provides for a channel 4 feet deep and 60 feet wide at mean low water, from the mouth to a turning basin at R.M. 5. The project was authorized in 1945, however, no work had been done as of 1975.

A project on Russell Creek provides for a channel 5 feet deep and 60 feet wide, at mean low water, from the mouth to R.M. 4.2. The project was authorized in 1945, however, no work had been done as of 1975.

The last project, located on Adams Creek, provided for a channel 10 feet deep and 80 feet wide from the mouth at Bohicket Creek to approximately R.M. 1.4 with a turning basin at the upper end. Construction was completed in February, 1973.

TABLE 3
AUTHORIZED FEDERAL NAVIGATION PROJECTS (3)(5)

Stream	Work Authorized	Date Complete	Project Location	Authorization
Edisto and South Fork Edisto River	Channel clearing	1896	R.M. 0.0 to R.M. 175	River and Harbor Act of 2 August 1882 H. Doc. No. 23, 46th Cong., 3d Session
Intracoastal Waterway	12 ft deep by 90 ft wide channelization	1940	Virginia to Florida	River and Harbor Act of 2 March 1925* S. Doc. 178, 68th Cong., 2nd Session; River and Harbor Act of 30 August 1935 H. Doc. 129, 72nd Cong., 1st Session; River and Harbor Act of 26 August 1937 Rivers and Harbors Comm. Doc. 6, 75th Cong., 1st Session
Charleston Harbor	Channelization of harbor and tributary streams and construction of two stone jetties with additional channelization to Naval Commandants Wharf and anchorage basin	Jetties 1895; chan- nelization 1965 with the exception of the naval channelization and anchorage basin	R.M. 0.0 to R.M. 26.3 and reaches of surrounding tributaries (see text)	River and Harbor Acts of: 18 June 1878, 8 August 1917 H. Doc. 288, 62nd Cong., 2nd Session; 18 July 1918 H. Doc. 1916, 64th Cong., 2nd Session; 21 January 1927 H. Doc. 249, 69th Cong., 1st Session; 17 October 1940 RH 40 HD 259/7611

Stream	Work Authorized	Date Complete	Project Location	Authorization
Charleston Harbor (continued)				H. Doc. 259, 76th Cong., 1st Session; 2 March 1945 H. Doc. 156, 77th Cong., 3 September 1954 S. Doc. 136, 83rd Cong., 2nd Session; H. Doc. 35, 86th Cong., 1st Session
North Fork Edisto River	Plant control	Project Sus- pended 1975	R.M. 0.0 - 27.0	River and Harbor Act of 3 July 1958 H. Doc. 37, 85th Cong., 1st Session; River and Harbor Act of 27 October 1965
Ashley River	Channelization	1940	R.M. 0.0 - 7.4	River and Harbor Act of 25 July 1912 Rivers and Harbors Comm. Doc. 4, 62nd Cong., 2d Session;
				River and Harbor Act of 26 August 1937 Rivers and Harbors Comm. Doc. 49, 74th Cong., 2nd Session

TABLE 3 (continued)

AUTHORIZED FEDERAL NAVIGATION PROJECTS (3)(5)

Stream	Work Authorized	Date Complete	Project Location	Authorization
Abbapoola Creek	Channelization	Not Started	R.M. 0.0 - 5.0	River and Harbor Act of 2 March 1945 H. Doc. 97, 76th Cong., 1st Session
Russell Creek	Channelization	Not Started	R.M. 0.0 - 4.2	River and Harbor Act of 2 March 1945 S. Doc. 41, 76th Cong., 1st Session
Adams Creek	Channelization	1973	R.M. 0.0 - 1.5	OCE on 17 April 1968 under Section 107 of the 1960 River and Harbor Act As Amended

^{*} Additional River and Harbor Acts were used to authorize the portions of the waterway outside the basin.

Other Navigation Projects

No other modern-day navigation improvement projects have been identified in the basin. As discussed in Section 4, several legislative efforts by the state of South Carolina were directed toward the Edisto River and its tributaries in the 1700's. Some of these projects, such as Watts Cut have been upgraded and are still used as part of the Intracoastal Waterway.

Inquiries made at various state and Federal agencies indicate no projects are now planned or under construction which would improve or substantially benefit navigation on the Edisto River.

SECTION 4 - INTERSTATE COMMERCE

Past

Early settlers entered what is now Orangeburg County, South Carolina in approximately 1730. These settlers "at first clustered together near the banks of the Edisto River ..., supposing that the adjacent stream could be advantageous in forming an outlet for them to Charleston, in the transportation of lumber to market." (7) However, as reported by another source, "There was little if any navigation of the Edisto" in the period up to about 1756. (8)

Quite a number of legislative efforts were aimed at making the Edisto and its various tributaries an effective system of inland navigation in the 18th Century. An act passed in 1714, for example, sought to cut or make "a convenient Creek or Watercourse through that part of the land ... commonly called the Hallover," and may have sought to effect better access to the Edisto basin. (9) In 1734, an act was passed "for clearing and opening ... several creeks, cut-offs or waterpassages ... and for regulating the boats and perriaugers* going through the same." Watts Cut, a tributary of the South Edisto River, was among the various watercourses named in this act. (10) Other acts continued the effort to keep Watts Cut navigable.

The General Assembly of South Carolina passed, in 1785, "An Ordinance for clearing Edisto" and other rivers, and two years later, established a "Company for clearing and improving the navigation of Edisto and Ashley Rivers, and for forming a communication by a canal and locks between the former and the latter." (11)

As is apparent from its language, the intent of this last act was to provide an inland passage between the mouth of the Edisto and Charleston, the chief port of South Carolina. While it is difficult to gauge the extent to which such efforts succeeded, inland-passage navigation in South Carolina very clearly preceded the creation of the Atlantic Intracoastal Waterway in the late 1930's.

^{*} Perriauger - A vessel used during the early development period of the United States (1700's-1800's) for the transportation of supplies. The vessel was sometimes oared, poled, or pulled and was occasionally fitted with mast and sail.

By 1818, the Civil and Military Engineer of South Carolina reported that "There are no obstructions to this navigation up to the branches of the Edisto about 15 miles from the ocean, and vessels drawing 5 and 6 feet water trade to Jacksonborough, 10 miles higher up [R.M. 32*]." From that point, wrote John Wilson, "the navigation continues good to Parker's Ferry, about 40 miles from the ocean, where the influence of the tide ceases." It was above Parker's Ferry that "the obstructions commence"; these consisted of sandbars and logs. But "during eight months in the year, the navigation is good for rafts and boats to the confluence of the North and South Branches, about 80 miles in a direct line from the ocean [R.M. 113*]." (12)

"The North Branch of the Edisto", Wilson's report continued, "is navigable for boats and rafts to Black Creek, one of its principal sources, 45 miles from the confluence." Above that point occurred the logs and sandbars which obstructed it, although Wilson thought that "The navigation may be opened to Lightwood Creek, 15 miles higher up." As to the South Edisto, it was "navigable for rafts and boats, drawing 5 feet water, without any material obstruction, for 20 miles in a direct line, from its confluence with the North Branch." After cataloging the obstructions which blocked the river above that point, Wilson's report suggested that "The navigation may be opened for boats 8 to 10 miles above the Rockledge to the confluence of Shaw's Creek [R.M. 166*]," and might be opened for rafts as far up as "Monk's Falls, 14 or 15 miles above its confluence with Shaw's Creek; and Shaw's Creek may be rendered navigable for the same purposes for about 10 to 12 miles of its course." (13)

A year later, Wilson reported that the Edisto "has been cleared and made navigable from Parker's Ferry, to the neighborhood of Givhan's Ferry, a distance of 32 miles [R.M. 60*]," and on the North Edisto, "a channel sufficient for the navigation of rafts and boats has been cleared for upwards of 50 miles." (14) By 1820, it was possible to proclaim the South Edisto "navigable ... some 60 miles above the fork for boats 10 feet wide and 50 feet long, with a draught of 2-1/2 feet during the driest season [R.M. 173*]." Larger boats could get as far

^{*} R.M. based on these study efforts.

up as Shaw's Creek during the wet season of the year. (15) For the two branches of this river the General Assembly appropriated \$2,500 in 1823, and an additional \$3,000 in 1825. (16)

These statements about the Edisto River were further amplified in 1826 by those of architect and inland-navigation visionary Robert Mills. Mills stated that "both branches and the main river are now navigable, having no shoals." As to the commercial advantages which this state of affairs afforded, "Large quantities of pine timber squared, are taken down the Edisto in rafts, to Charleston, each year." (17)

Thereafter, trade on the Edisto seems to have declined, at least in so far as the upper branches were concerned. In 1883 the State Board of Agriculture proclaimed that "The two Edistos might be rendered navigable for small steamboats." (18) When Colonel Quincy Gillmore, Corps of Engineers, examined the river in 1880, he found a rather insignificant volume of commercial activity thereon. The Rivers and Harbors Act of 2 August 1882, appropriated \$8,000 for the improvement of the Edisto from the ocean to the confluence of the two branches. However, "No steamboat or flatboat navigation was developed by the improvement, and during the progress of the work it became apparent that the rafting of timber and lumber was the only interest that warranted the improvement of the stream." (19)

This project was eventually completed, and work was discontinued in 1896, except for additional clearings. The total amount expended on the Edisto by the Federal government amounted, by 1938, to \$34,000. At that time there were no terminal facilities on the river except for private ones used for fishing and pleasure craft. (20)

Present

Except for the Intracoastal Waterway, the Edisto River is not currently being used for purposes of waterborne interstate commerce. (21)

During the 18th Century, the Edisto River appears to have been navigable along its lower stretches to the variety of sail and oar craft then in use. So also were its lower tributaries, those tidewater streams which formed a network of waterborne trade and communication

during the era of the rice plantation. Based upon the sketchy and inconclusive evidence available, streams which may at one time or another have enjoyed extensive use by canoes, rafts, perriaugers, bateaux, or steam-powered vessels are the following: Bailey Creek (in 1965, rated as navigable for 6 miles); Big Bay Creek (for 4 miles); Bohicket Creek (for 14 miles); Church Creek (for 5.5 miles); Dawho River (for 11 miles); Fishing Creek (for 4 miles); Four Hole Swamp (for 5 miles); Leadenwah Creek (for 8 miles); Milton Creek (for 1 mile); Ocella Creek (for 1.5 miles); Pioneer Creek (for 1 mile); Russell Creek (for 7 miles); Sand Creek (for 2 miles); St. Pierre Creek (for 4 miles); Shingle Creek (for 2 miles); Steamboat Creek (for 5 miles); Store Creek (for 5 miles); Toogoodoo Creek (for 9 miles) Townsend River (for 8 miles); Wadmalaw River (for 9 miles); Watts Cut (for 0.8 miles); and Whooping Island Creek (for 3 miles).

During the 19th Century, but only from about 1820 until the early 1840's, the head of navigation on the North Edisto was apparently at a point 45 miles from its confluence with the South Branch. This point, Black Creek, is what Wilson suggested was the limit of navigation. The South Edisto was apparently, after the program of improvements, navigable as far as 60 miles above the confluence of the two branches.

In 1965, the Edisto River was described as follows: "Navigable length in miles 60.0; 7 mi. forms link of IWW, Charleston to Beaufort, S. C. Mi. 6 limit of practical nav." The North Edisto River's "Navigable length in miles" was given as 8 miles, while North Fork, Edisto River, was described as "Nav. impractical," as was the South Fork of the Edisto River. (22)

In 1974, the Edisto River navigation project was termed "Completed;
No commerce reported." (23) At present, the head of navigation on the
Edisto River cannot be established on the basis of historical records
and must be established on the basis of physical characteristics and
other data.

Future Potential

The potential use of the Edisto River and its tributaries for interstate commerce in future years is difficult to predict. Comprehensive analysis of the regional economics (income, education, employment, community facilities, transportation systems, and similar factors), which would indicate growth patterns and the services needed to sustain various types of industrial and commercial activities, is beyond the scope of this study. However, some analysis and judgments have been made concerning future commerce.

It is anticipated that the Edisto River has the potential to be utilized for shipment of goods into other states since it is connected to the Atlantic Ocean near St. Helena Sound. The upstream reaches of the basin are not currently used for interstate commerce and the future potential is not anticipated to be significant. This is due in part to limited industrial and commercial activity and heavy dependence on other forms of transportation including the interstate highway system, railroads, and air transport.

SECTION 5 - LEGAL AUTHORITY

General

This section presents information pertaining to the legal aspects of the navigability investigation. Such Federal and state court decisions as apply to the specific basin reported on herein are outlined. The Summary Report presents more complete documentation and references to the court cases dealing with navigation classifications and legal jurisdiction.

Navigability Interpretations

The term "navigable waters of the U. S." is used to define the scope and extent of the regulatory powers of the Federal government. Precise definitions of "navigable waters" or "navigability" are ultimately dependent on judicial interpretation, and are not made conclusively by administrative agencies.

Definitions of "navigability" are used for a wide variety of purposes and vary substantially between Federal and state courts. Primary emphasis must therefore be given to the tests of navigability which are used by the Federal courts to delineate Federal powers. Statements made by state courts, if in reference to state tests of navigability, are not authoritative for Federal purposes.

Federal courts may recognize variations in definition of navigability or its application where different Federal powers are under consideration. For instance, some tests of navigability may include:

- 1. Questions of title to beds underlying navigable waters.
 - 2. Admiralty jurisdiction.
- Federal regulatory powers.

This study is concerned with Federal regulatory powers. Unfortunately, courts often fail to distinguish between the tests, and instead rely on precedents which may be inapplicable. Thus, a finding that waters are "navigable" in a question dealing with land title may have a somewhat different meaning than "navigable waters of the U. S." which pertains to Federal regulatory functions.

In this study, the term "navigable waters of the U. S." is used to define the extent and scope of certain regulatory powers of the Federal government (River and Harbor Act); this is distinguished from the term "navigable waters" which refers to other Federal regulatory powers (Section 404 of PL 92-500).

Administratively, "navigable waters of the U. S." are determined by the Chief of Engineers and they may include waters that have been used in the past, are now used, or are susceptible to use as a means to transport interstate commerce landward to their ordinary high water mark and up to the head of navigation. "Navigable waters of the U. S." are also waters subject to the ebb and flow of the tide shoreward to their mean high water mark. These waters are deemed subject to a Federal "navigation servitude". The term "navigable waters of the U. S." defines the more restricted jurisdiction which pertains to the River and Harbor Acts -- particularly the one of 1899 which specifically defined certain regulatory functions for the Corps of Engineers.

In contrast, the term "navigable waters" defines the new broader jurisdiction with respect to Section 404 of the Federal Water Pollution Control Act Amendments of 1972. Accordingly, "navigable waters" not only include those waters subject to the navigation servitude, but adjacent or contiguous wetlands, tributaries, and other waters, as more fully defined in revised Corps of Engineers Regulations.

Although this navigability study covers both "navigable waters of the U. S." and "navigable waters", the analysis of judicial interpretation has only focused upon determining "navigable waters of the U. S." to the head of navigation. Due to common usages in court cases, the terms "navigability" and "navigable waters" may herein appear interchangeably with the term "navigable waters of the U. S." However, the summary of court cases is directed at the Federal regulatory jurisdiction of the River and Harbor Acts, and not necessarily regulatory jurisdiction under the Federal Water Pollution Control Act.

General Federal Court Cases

Powers of the Federal government over navigable waters stem from the Commerce Clause of the U. S. Constitution (Art. 1,58). Pursuant

to its powers under the Commerce Clause, Congress enacted the River and Harbor Act of 1899 which particularly specifies regulatory powers of the Federal government in "navigable waters of the U. S."

The well-established Federal test of navigability is whether a body of water is used or is capable of being used in conjunction with other bodies of water to form a continuous highway upon which commerce with other states or countries might be conducted.

Several Federal court decisions make it clear that a waterway which was navigable in its natural or improved state retains its character as "navigable in law" even though it is not presently used for commerce. The test of navigability is not whether the particular body of water is in fact being used for any form of commerce but whether it has the capacity for being used for some type of commerce. Several cases substantiate this (see the Summary Report for details on the court decisions).

The ebb and flow of the tide is another test which remains a constant rule of navigability in tidal areas, even though it has sometimes been disfavored as a test of Federal jurisdiction. Several cases note that ebb and flow should not be the sole criterion of navigability, but that extension of Federal jurisdiction into the major non-tidal inland waters is possible by an examination of the waters "navigable character". The ebb and flow test, however, remains valid as a rule of navigability in tidal areas; it is merely no longer a restriction for non-tidal areas. For bays and estuaries, this extends to the entire surface and bed of all waterbodies subject to tidal action, even though portions of the waterbody may be extremely shallow or obstructed by shoals, vegetation, or other barriers as long as such obstructions are seaward of the mean high tidal water line. Marshlands and similar areas are thus considered "navigable in law" insofar as they are subject to inundation by the mean high waters. The relevant test is therefore the presence of the mean high tidal waters. Navigable waters are considered navigable laterally over the entire surface regardless of depth.

Another factor relevant to navigability determinations is land title. Whatever title a party may claim under state law, the private ownership of the underlying lands has no bearing on the existence or extent of the dominant Federal jurisdiction over "navigable waters of the U. S." Ownership of a river or lake bed will vary according to state law; however, the Supreme Court has consistently held that title to the bottomlands is subordinate to the public right of navigation.

Specific Federal Court Cases

Navigability, in the sense of actual usability for navigation or as a legal concept embracing both public and private interests, is not defined or determined by a precise formula which fits every type of stream or body of water under all circumstances and at all times. A general definition or test which has been formulated for Federal purposes is that rivers or other bodies of water are navigable when they are used, or are susceptible of being used, in their ordinary condition as highways for commerce over which trade and travel are or may be conducted in the customary modes of trade and travel on water.

The question of navigability of water when asserted under the Constitution of the U. S., as is the case with "navigable waters of the U. S.", is necessarily a question of Federal law to be determined according to the general rule recognized and applied in the Federal courts.

Review of legal documentation reveals there are no Federal court decisions which apply specifically to navigation in the Edisto River area.

South Carolina State Court Cases

The South Carolina legislative enactment defining navigability and requiring freedom from obstruction may be found in Section 70-1 of the South Carolina Code of Laws. This section essentially provides that all streams which can float rafts of lumber or timber are considered navigable by state law.

Many of the South Carolina state cases reported are primarily concerned with state ownership questions. While the majority of states actually own streams and exercise control over their navigable waters, the ultimate authority has been granted to the Federal government by the Commerce Clause of the Constitution. The general rule, then is

that the states both own and control the navigable streams within their borders, subject to exercise of the superior right of control by the U. S. Although case histories show that state and Federal concepts of navigability do not always agree, when Federal interests are at stake, the Federal test will govern.

There are exceptions, however, to the "overwhelming majority rule of state ownership of lands beneath navigable waters", and South Carolina is in the minority. In the minority states, it was considered that property rights were vested at the time of independence from England and that the state took title only to tidal-navigable streams while riparian owners took title to all stream beds, both navigable and non-navigable, if non-tidal. Even in the minority states, however, private ownership of the bed does not affect the rights of the public to the use of navigable waters.

Review of legal documentation indicates there are two South Carolina state court cases which specifically deal with navigation considerations in the Edisto River area. (24) These cases are briefly summarized below.

State v. Collum* - This case deals with McTier Creek, a branch of the South Edisto River. An 1825 act of the legislature provided:

"No person shall erect any mill dam, or other obstruction, across any stream used for the purposes of navigation by boats, flats or rafts of lumber or timber, without sufficient locks, slopes or canals, to admit free navigation of such streams..." (VI Stat. 268 (S.C. 1825))

In this case, the defendant had been indicted for obstructing such a stream. His defense was that the act of 1825 only affected streams then "used for purposes of navigation" and that this stream was not cleared for rafting lumber until 1830. The Supreme Court affirmed the conviction holding that the clearing of obstructions made the stream navigable under the act and that "(t)he term 'used' is a participle, and may have a past, present and future meaning..." and "refers to the use of it which should give it a public character" at the time of the defendant's act.

^{# 2} Spears 581 (S. C. 1844).

State v. Hickson* - This case regarding Shaw Creek, tributary of the Edisto River, was very similar to the above case (State v. Collum) arising under the 1825 act of the legislature, but had one crucial difference. Here, the defendant built his dam in 1830 before the streams had been cleared for rafting. His conviction was reversed by the Supreme Court which went on to say:

"At the time Hickson built his mill, it is very clear that Shaw's Creek was not a stream used for navigation ... It has become so since, but that has been done by private enterprise, and neither Hickson or the legislature have dedicated it to public use."

The case seems to say that small non-navigable streams may be kept that way by the riparian proprietors merely by erecting a permanent obstruction, thus forestalling the development of navigation. The court did seem to indicate that this result might not be conclusive upon the legislature as to "large fresh water streams, which by nature are navigable". It is difficult to determine whether the court considers the distinction to be the stream size or that the creek was made navigable by "private enterprise" and not nature or the legislature. It is likely that the court considered that the opposite result would be to divest the owner of property rights valid when acquired.

Recent Federal Litigation

A review of recent Federal regulatory litigation concerning the Charleston District reveals several court actions pertaining to streams in the Edisto River area. The summaries presented below indicate jurisdictional "navigable waters of the U. S." wherein recent activities have entailed court decisions. (24)

Milton P. Demetre v. Howard Callaway and Harry S. Wilson, Jr.** This court action concerns Charleston Harbor. On 20 June 1969, plaintiff
applied for a permit to construct two rock groins at Charleston Harbor
on the north shore of James Island, Charleston County, South Carolina.
Upon discovering that plaintiff had exceeded the scope of his permit
by constructing an embankment and filling marsh behind it, a cease

^{# 5} Rich. 447 (S. C. 1844).

^{**} U.S.D.C. South Carolina, Civil Action No. 74-553.

and disist order was issued by the Charleston District Engineer. In July, 1970, plaintiff applied for a permit to complete the embankment and filling operation that had already begun. The U.S. Department of Interior objected to this permit proposal and recommended that tidal circulation be restored to the impounded area. After coordination with the Office, Chief of Engineers (OCE) and the Under Secretary of the Department of Interior, in November, 1973 the Charleston District Engineer advised plaintiff that his permit had been denied. On 1 May 1974 plaintiff filed this civil action to have the cease and desist order lifted so that he could continue with his filling project. Pursuant to court order dated 7 May 1975, revised permit application submissions outlining the entire project development where made by plaintiff limiting the subject property to a public boating facility. With the concurrence of the Federal District Judge and pursuant to Corps regulations, a public hearing pertaining to the newly revised permit application was held 16 December 1975. In accordance with court directives, processing of the permit was to be expedited to the utmost extent consistent with an adequate, thorough public interest review. Recommendations were forwarded on 27 January 1976 to OCE for a final administrative determination. This determination is currently being coordinated with the Department of Interior.

U. S. v. Fred H. Horlbeck* - This civil complaint, filed 5 June 1975, deals with Church Creek at Wadmalaw Island and alleges violation of Sections 10 and 13 of the River and Harbor Act of 1899 and non-compliance with Sections 404(a) and 301(a) of the 1972 Amendments to Federal Water Pollution Control Act (FWPCA). This complaint alleges that defendant, Fred H. Horlbeck, built an earthen embankment impounding approximately 50 acres of wetlands, including approximately 25 acres of tidal marsh in the marsh and waters adjacent to Church Creek at Wadmalaw Island, Charleston County, South Carolina. The suit initially sought injunctive relief, restoration, and civil penalities available under Section 309(d) of the FWPCA. Defendant's answer and counterclaim were served on 25 June 1975, alleging that the Federal government's

[#] U.S.D.C., South Carolina, Civil Action No. 75-952.

widening, deepening, and relocation at a different area of a section of the Atlantic Intracoastal Waterway changed the character of the water on which defendant's property fronted from fresh-brackish water to salt and that the resulting change in salinity caused defendant's trees and vegetation to die, caused the level of defendant's property to sink, and caused saltwater invasion of former highland. The government moved to dismiss defendant's counterclaims due to: (1) the lack of a case or controversy ripe for judicial decision; (2) the tolling of the statute of limitations; (3) the lack of jurisdiction in the Federal District Court; and (4) the failure to state a claim upon which to grant relief. Memoranda in support of and in opposition to the government's motion were filed. Upon hearing of the motion, the Federal District Judge deferred ruling. However, aerial photographs and Corps data do not substantiate defendant's counterclaim. Another aspect of defendant's defense is that prior project assistance had been secured from a different Federal agency (Soil Conservation Service of the U. S. Department of Agriculture). The government's position, which has been recognized by the Federal District Judge, is that this "other" assistance does not obviate the burden of defendant to comply with permit requirements. This is especially so where, as in the instant case, permit matters are outside the scope of the "other" Federal agency, where there is ample evidence of defendant's prior knowledge of permit requirements, and where there is evidence that defendant continued work after the issuance of Corps cease and desist directives. Defendant's proposed plan for restoration entailing the installation of uncontrolled pipe culverts has been rejected by the District as insufficient.

U. S. v. Thomas M. Evans and Magellan R. Brunson* - This civil complaint regarding the Ashley River, filed 25 June 1975, alleged violation of Sections 10 and 13 of the River and Harbor Act of 1899 and non-compliance with Sections 404(a) and 301(a) of the FWPCA. The complaint alleged that defendants, Thomas M. Evans and Magellan R. Brunson, filled in the estuarine marshlands, constructed a rip-rap

[#] U.S.D.C., South Carolina, Civil Action No. 75-1094.

sustaining wall made of concrete blocks, placed stone, constructed an extension to an existing pier connecting same to the illegal fill, and constructed two pilings channelward of said pier in the Ashley River at Evanston Estate Subdivision, Charleston County, South Carolina. The complaint also alleged that as recently as 24 June 1975, the defendant, Thomas M. Evans, was carrying on a different filling project in the same general area. The suit initially sought injunctive relief, including a temporary restraining order, restoration, and civil penalities available under Section 309(d) of the FWPCA. Defendant's answers were served on 10 July 1975 along with a motion by defendant, Thomas M. Evans, for severance. Subsequent to meeting with counsel for defendants, a consent order was entered assessing a civil fine of \$2,250.00, and restraining defendants from any further unauthorized filling in wetlands (above and below mean high water - "waters of the U. S.") along with all further unpermitted work in "navigable waters of the U. S." (below mean high water). The order also provided for quit-claim conveyance to the state of South Carolina, consistent with state claim, of "all lands which lay below the mean high water prior to the placement of fill and rip-rap, and thereby elevating such lands by artificial and man-made methods above the natural mean high water mark." The quit-claim has been executed as the state was made a party-plaintiff to this action.

U. S. v. Hugh H. Lee and R. T. Lee* - This litigation concerns
Mosquito and Musselboro Creeks, tributaries of Ashepoo River. The
civil complaint seeking an injunction, restoration, and civil monetary
penalities was filed on 31 October 1975, and alleges violation of
Sections 10 and 13 of the River and Harbor Act of 1899 and non-compliance
with Sections 404(a) and 301(a) of the FWPCA. The complaint alleges
that defendants excavated, constructed earthen embankments, deposited
dredged and fill material, obstructed tidal flow, and impounded approximately two acres of tidal marsh in the marsh and waters in the area
of and adjacent to Mosquito and Musselboro Creeks at Bennett's Point,
Colleton County, South Carolina. After District refusal to accept an
after-the-fact permit application for the entire unauthorized work as

inconsistent with prior administrative determination, a proposed consent order has been drafted providing for removal of all fill below mean high water and affording defendants an opportunity to apply for an after-the-fact permit for embankment relocations above mean high water.

U. S. v. Anthony P. Cecil* - Steamboat and Russel Creeks, tributaries of North Edisto River, are the areas covered by this litigation. This civil complaint seeking an injunction, restoration, and civil monetary penalties were filed on 14 January 1976, and alleged violation of Section 10 of the River and Harbor Act of 1899 and non-compliance with Sections 404(a) and 301(a) of the FWPCA. The complaint alleged that defendant excavated, deposited fill material, obstructed tidal flow of at least nine tidal creeks, and impounded approximately 42 acres of tidal marsh in the marsh and waters in the area of and adjacent to Steamboat and Russel Creeks at Rabbit's Point, Edisto Island, Charleston County, South Carolina. Defendant answered this suit on 12 February 1976. Further investigations revealed that of the three impoundments at the site, one was constructed prior to 1968, and therefore, prior to exercise of Corps jurisdiction over such activities in these areas. Defendant has agreed to restore and open the 14 acre second impoundment, while the third impoundment (three acre), after coordination with the EPA and Department of Interior, would remain as a water retention basin for irrigation serving community agricultural needs. A proposed consent decree reflecting this position is currently being formulated.

Oak Island Environmental Protection Association, etc. v. United

States of America** - This court action deals with Oak Island Canal, off

Folly Creek. On I March 1975, suit was filed against the U. S. Coast

Guard and William S. Brown, a developer (among others), alleging that
the Coast Guard granted a permit for the construction of a bridge to
Oak Island, Charleston County, South Carolina, without sufficient public
input in the form of a hearing and Environmental Impact Statement (EIS)
as required by the National Environmental Policy Act (NEPA). The plaintiff
also alleged that no permit for filling in connection with a planned

^{*} U.S.D.C., South Carolina, Civil Action No. 76-69.

^{**} U.S.D.C., South Carolina, Civil Action No. 76-358.

causeway associated with the bridge had been applied for and obtained from the Corps of Engineers. At a hearing on the motion for a pre-liminary injunction, the court ordered the Coast Guard to conduct a public hearing and determine whether an EIS would be required. The court further ruled that the Coast Guard's granting of the bridge permit without ascertaining the extent of proposed development on Oak Island was arbitrary, capricious, and constituted a violation of NEPA. The Coast Guard has since conducted its public hearing. To date, no Department of the Army permit application has been made for proposed work although defendant, Brown, has been advised of Corps jurisdiction.

Federal Agency Jurisdiction

The delineation of "navigable waters of the U. S.", as discussed earlier, in essence, defines the Federal navigation servitude and is applicable to Federal jurisdiction generally (not merely applicable to the Corps of Engineers). No matter which Federal agency or activity may be involved, the assertion of "navigability" ("navigable waters of the U. S.") arises under the U. S. Constitution, or under application of Federal statute.

By virtue of the Commerce Clause of the Federal Constitution, and the clause empowering Congress to make all laws necessary to carry into execution the Federal judicial power in admiralty and maritime matters, "navigable waters of the U. S." are under the control of Congress, which has the power to legislate with respect thereto. It is for Congress to determine when and to what extent its power shall be brought into activity. It may be exercised through general or special laws, by Congressional enactments, or by delegation of authority.

Thus, Congress has power which is paramount to that of the states to make improvements in the navigable streams of the U. S. and for this purpose to determine and declare what waters are navigable. The Federal government also has the power to regulate the use of, and navigation on, navigable waters.

The above presents the basis upon which Federal jurisdiction in 'navigable waters of the U. S.'' is established. The basic definition or jurisdictional concept of "navigable waters of the U. S." remains consistent, irrespective of which department or office of the Federal government may be delegated particular responsibility. For instance, the safety, inspection, and marine working functions of the U. S. Coast Guard embrace vessel traffic within "navigable waters of the U. S." as previously defined.

With specific reference to agency regulation of construction or work within "navigable waters of the U. S.", other than by the Corps of Engineers, the Department of Transportation Act of 15 October 1966 (PL 89-670) transferred to and vested in the Secretary of Transportation, certain functions, powers, and duties previously vested in the Secretary of the Army and the Chief of Engineers. By delegation of authority from the Secretary of Transportation, the Commandant, U. S. Coast Guard, has been authorized to exercise certain of these functions, powers, and duties relating to the location and clearances of bridges and causeways in the "navigable waters of the U. S."

An additional agency of particular interest concerning work or construction within "navigable waters of the U. S." is the Federal Power Commission. The Federal Power Act, Title 16, United States Code, Sections 791 et. seq., contemplates the construction and operation of water power projects on navigable waters in pursuance of licenses granted by the Federal Power Commission. The statute was enacted to develop, conserve, and utilize the navigation and water power resources of the nation. The act provides for the improvement of navigation, development of water power, and use of public lands to make progress with the development of the water power resources of the nation.

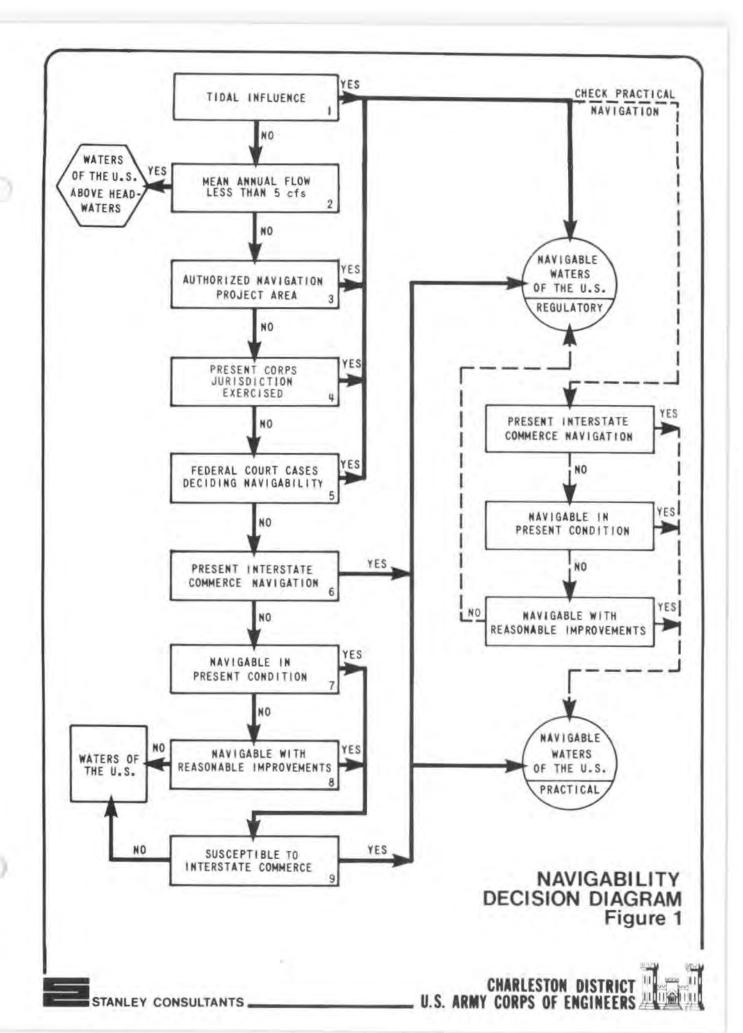
SECTION 6 - NAVIGATION OBSTRUCTIONS AND CLASSIFICATIONS

Navigation Classification Procedures

As noted in Section 5, definition of navigability is not subject to a single precise formula which applies to every circumstance. Many factors including stream physical characteristics (depth, width, flow, slope, etc.), presence of obstructions, court decisions, authorized navigation projects, potential for reasonable improvements, and susceptibility of a stream to interstate commerce activities, play a role in the decision-making process for classifying waterbodies in the Charleston District. In an effort to make the analytical process concerning stream classifications as systematic as possible, a "Navigability Decision Diagram" has been developed and is presented in Figure 1. This diagram has been utilized as a guide in assessing the various navigation classifications for streams in the Charleston District. The Summary Report includes a detailed presentation on the methodology and approaches used in the analysis; however, the following presents a brief synopsis of the techniques as indicated in Figure 1.

Tidal Influenced Areas - Tidal areas (see Item I in Figure 1) which are affected by mean high water are classified "navigable waters of the U. S." according to various legislative and judicial actions. The "navigable waters of the U. S." are subject to regulatory jurisdiction by the Corps of Engineers and other agencies. Even though all tidal areas are so classified and subject to regulatory procedures, many are not practically navigable based upon past and/or present requirements for vessels. Figure 1 shows that some additional "check" analyses are necessary to distinguish those tidal waters which are actually capable of practical navigation. Investigation of the tidal areas is beyond the scope of this study; however, drawings showing the "plan" of major rivers to their mouth, often tidal influenced, are presented in the interest of continuity.

<u>Waters of the U. S. Above Headwaters</u> - Section 404 of PL 92-500 considers the headwaters of waterbodies to be the point at which the mean annual flow is five cfs. Waterbodies or portions of waterbodies



located upstream of the headwaters are nationally permitted by law and will not require an individual application for dredge or fill discharge permits provided the proposed work will meet certain conditions.

However, these waters are classified "waters of the U. S." and are within Corps of Engineers jurisdiction as applicable to Section 404.

Item 2 in Figure 1 shows the testing procedure for the five cfs point.

Authorized Navigation Project Area - Any streams which currently have authorized Federal projects to aid navigation are classified as "navigable waters of the U. S." (Item 3 in Figure 1). Many of the projects thus authorized were based upon conditions which are not currently applicable (for example, use of pole boats or steamboats for justifying the navigation benefits). Consequently, many of the streams having older authorized projects will not allow passage of present-day commercial navigation vessels without some additional improvement. Thus, some portions of the authorized project areas are not considered practical for navigation. Figure 1 shows the additional "check" procedure which has been followed to assess the practical limit of "navigable waters of the U. S."

Present Corps Jurisdiction Exercised - The Corps of Engineers is exercising jurisdiction on several non-tidal waterbodies which are not covered by authorized projects (Item 4 in Figure 1). (22)

Determinations previously made on these waterbodies under the River and Harbor Act indicated use for interstate commerce and hence the current classification as "navigable waters of the U. S." Some of these streams are not currently navigable by present-day commercial vessels and thus have practical limits. Figure 1 shows the "check" used to assess the practical limits of "navigable waters of the U. S."

Federal Court Decisions - As noted in Section 5, Federal case law is the predominant indicator which is to be used for establishing Federal jurisdiction over waterbodies in the Charleston District (Item 5 in Figure 1). Several decisions have been rendered which classify certain streams in the district as "navigable waters of the U. S." However, some of these court decisions have been arrived at under different circumstances or without the benefit of the data developed as a part of this investigation. Therefore, even though some of the

Streams are classified by judicial review as 'navigable waters of the U. S.'', they are not practical for navigation with present-day vessels. Figure I shows the steps necessary to "check" those portions of the 'navigable waters of the U. S.'' which are capable of practical navigation.

Present Interstate Commerce Navigation - Any rivers currently involved in interstate commerce activities are classified as "navigable waters of the U. S." from both the regulatory and practical standpoint (see Item 6 in Figure 1).

Waters of the U. S. Below Headwaters - For those streams, or portions of streams, not subject to authorized projects, court cases, or present interstate commerce navigation, several additional tests for determining navigability are required (Items 7 and 8 in Figure 1). If the waterbody is not judged to be navigable in its present state or with reasonable improvements, then it is beyond the limit of "navigable waters of the U. S." and is termed "waters of the U. S." over the remaining length. These "waters of the U. S." (as well as the "navigable waters of the U. S.") up to the headwaters (five cfs points) of the streams are subject to jurisdiction under Section 404 of PL 92-500. A general or individual permit is required for discharge of dredged or fill material below the headwaters (five cfs point) of "waters of the U. S." Discharges above the headwaters are discussed in the previous subsection, "Waters of the U. S. Above Headwaters."

Interstate Commerce - Some non-tidal waters in the district are not now subject to authorized projects, court decisions, or interstate commerce navigation, but can be navigated under present or reasonably improved conditions. These streams may be considered for classification as "navigable waters of the U. S." if they are susceptible to interstate commerce activities (past, present, or future). A combined judgment considering both "reasonable improvement" factors (Item 8 in Figure 1) and "interstate commerce" factors (Item 9 in Figure 1) has often been utilized in arriving at the conclusions and recommendations concerning navigability of waterbodies in the Charleston District. The Summary Report provides further details on these factors.

Navigation Classification Categories

This study classifies streams into several different categories, each of which is discussed subsequently:

- Present "navigable waters of the U. S." (by regulatory procedures).
- 2. Historically navigable waters (based on literature review).
- Recommended "navigable waters of the U. S." (based upon data developed as a part of this investigation).
- Recommended waters for practical navigation (within "navigable waters of the U. S.").
- Headwaters for all waterbodies (five cfs points).

The first four navigation classifications are displayed on the plates presented later in this report. The headwater limits are summarized in Appendix A.

Present Navigable Waters of the U. S.

Currently, the Edisto River is classified as 'navigable waters of the U. S." from its mouth at St. Helena Sound to Guignards Landing (R.M. 154; river mileage, as explained in the Summary Report, is continued from Edisto River to South Fork). (3) This classification includes the entire length of the Edisto River, from the mouth to R.M. 113, as well as 41 miles of the South Fork Edisto River; and is based on the length of river authorized for Federal navigational improvements (see Section 3). The North Fork Edisto River is classified as "navigable waters of the U. S." from its mouth to R.M. 27.2 near Orangeburg (river mileage on North Fork begins at 0.0). Four Hole Swamp is presently classified as "navigable waters of the U. S." from its mouth to R.M. 5.0. Both the North Fork Edisto and Four Hole Swamp classifications are based on Corps of Engineers' information indicating potential for navigability. (22) In addition, all rivers, creeks, streams, and parts of streams subject to tidal influence are presently classified as "navigable waters of the U. S." based on the legal and administrative definition of the term "navigable waters of the U. S." (see Section 5). No streams in the basin, other than the Edisto River, are partially

tidally influenced and meet "navigable waters of the U. S." criteria in the non-tidal portions. Plate 03-4 presents a map location of limits.

Historically Navigable Waters

As discussed in Section 4, historically the Edisto and South Fork Edisto Rivers were navigable to about R.M. 173. The North Fork Edisto River was navigable as far as R.M. 50. Four Hole Swamp has been estimated to have been navigable for approximately 5 miles. Section 4 presents additional tidally influenced streams that may have been historically navigable. Plate 03-4 presents map location of limits on the non-tidal streams.

Recommended Navigable Waters of the U. S.

"Navigable waters of the U. S.", once classified in the past, cannot be declassified. Thus, the recommended limit of "navigable waters of the U. S." (for regulatory purposes) on the Edisto and South Fork Edisto Rivers is at R.M. 154 because that is the limit of an authorized Federal navigation project. The recommended limit of "navigable waters of the U. S." on both the North Fork Edisto River and Four Hole Swamp extend from their mouths upstream for 27.2 miles and 5.0 miles, respectively. Both the North Fork Edisto and Four Hole Swamp recommendations are based on Corps of Engineers' information indicating potential for navigability. (22) Plate 03-4 presents the map location for these limits.

Recommended Practical Navigable Waters of the U. S.

The recommended limit of "practical navigable waters of the U. S." on the Edisto River is at R.M. 113. The recommended limit of "practical navigable waters of the U. S." on the South Fork Edisto River is at U. S. 321 (R.M. 136.6). Field investigation and computational analysis of channel dimensions at all bridges crossing the Edisto and South Fork Edisto Rivers between the limit of tidal influence (R.M. 37) and the recommended limit of "practical navigable waters of the U. S." revealed approximate mean water depth of at least 7 feet and channel width

of at least 50 feet. The channel was slightly less than 7 feet deep at three bridges, S. C. Secondary 39 Highway bridge, S. C. 70 Highway bridge, and Seaboard Coast Line Railroad bridge; however, the variance was either small enough to be insignificant, or upstream locations revealed a 7 foot depth, or both. In addition, several locations upstream of U. S. 321 Highway bridge were investigated and all were found to be less than 7 feet deep requiring extensive modifications to make the river navigable.

The recommended limit of "practical navigable waters of the U. S." on the North Fork Edisto is at S. C. Secondary 39 Highway bridge (R.M. 9.8). The recommended limit of "practical navigable waters of the U. S." on Four Hole Swamp is at S. C. Secondary 56 Highway bridge (R.M. 3.5). Field investigation and computational analysis of channel dimensions at all bridges crossing these streams between their mouth and the recommended limit of "practical navigable waters of the U. S." revealed approximate mean water depths of at least 7 feet and channel widths of at least 50 feet. Investigation upstream of these locations indicated depths and widths less than these which would require extensive improvements to make the streams navigable. See Plate 03-4 for map location of limits.

No practical recommendation or investigation of tidally influenced streams or parts of streams has been made. No other streams in the basin are recommended as "practical navigable waters of the U. S."

Plan and profiles of the recommended "practical navigable waters of the U. S." are shown on Plates 03-5 through 03-15. The plan and profile plates show mean water surface as determined from USGS maps, stream bed depth, 50-foot wide navigable channel depth, pier spacing for bridges crossing the river, and vertical clearances at structures. Approximate vertical clearances for overhead utilities are shown later in this Section in Table 4. It is emphasized that all references to elevation are approximate since vertical control was established from USGS contour maps and not field instrument surveys. Water depth and structure vertical clearance measurements are also approximate

due to the accuracy inherent in the field techniques. (See Summary Report for a detailed description of the field procedures and the methdology used to calculate water depth at mean flow.)

Obstructions to Navigation

Table 4 presents the vertical clearance to mean water level and mean water slope at all obstructions and the mean discharge of the river at all bridges, located within the recommended "practical navigable waters of the U. S." It is emphasized that mean discharge, slope, and vertical clearance are only approximations based on best available data. Specific procedures for determining these are discussed in the Summary Report. Figures 2 through 44 are photographs of the obstructions starting with the most downstream. These photographs are identified to correspond with the data in Table 4.

Waters of the U. S.

"Waters of the U. S." are considered to be all streams beyond the recommended limits of "navigable waters of the U. S." "Waters of the U. S." with more than five cfs mean annual flow require a permit for discharge of dredged or fill material. "Waters of the U. S." with less than five cfs mean annual flow are nationally permitted by law and will not require an individual application for dredge or fill discharge permits provided the proposed work will meet certain conditions.

Appendix A lists all the five cfs flow points located in the Edisto River report area. Each point is located by stream code, stream name, latitude and longitude, and a mileage reference.

Appendix B lists the lakes located in the Edisto River report area which have surface areas between 10 and 1,000 acres. The lake summary identifies the stream basin code, lake name or owner, county location, and where data is available, the surface area and gross storage.

TABLE 4

OBSTRUCTION LISTING FROM TIDAL INFLUENCE LIMIT
TO RECOMMENDED PRACTICAL LIMIT OF
NAVIGABLE WATERS OF THE U. S. (2)

Edisto River Mile	Description	Mean Discharge (cfs)	Mean Water Slope (ft/mi)	Approximate Vertical Clearance To Obstruction (ft)
42.8	Utility Line (power)		1.0	37.0
49.2	Utility Line (power)		1.0	50.0
49.3	U.S. 17A Highway Bridge	2,760	1.0	18.0
50.5, 50.6	Utility Line (power)		1.0	40.0
51.2	Utility Line (power)		1.0	40.0
57.5	Utility Line (power)	1-5	1.0	40.0
57.5	Utility Line (power)	**	1.0	20.0
58.5	Utility Line (power)	44	1.0	50.0
59.7	Utility Line (power)	144	1.0	27.5
59.9	S.C. 61 Highway Bridge	2,690	1.0	18.0
72.4	S.C. Secondary 29 Highway Bridge	2,230	1.0	7.0
72.4	Utility Line (power)		1.0	39.0
80.1	U.S. 15 Highway Bridge	2,190	1.8	11.0
80.1	Utility Line (power)	192	1.8	43.0
80.4	Utility Line (power)		1.8	32.0
80.4	Utility Line (power)		1.8	40.0
80.4	Utility Line (power)		1.8	35.0
80.4	Utility Line (power)	24	1.8	41.0
80.4	Utility Line (power)		1.8	51.0

TABLE 4 (continued)

OBSTRUCTION LISTING FROM TIDAL INFLUENCE LIMIT TO RECOMMENDED PRACTICAL LIMIT OF NAVIGABLE WATERS OF THE U. S. (2)

Edisto River Mile	Description	Mean Discharge (cfs)	Mean Water Slope (ft/mi)	Approximate Vertical Clearance To Obstruction (ft)
80.4	Utility Line (gas-underground)		1.8	-3.01)
80.6	Utility Line (cooling water- surface)		1.8	20.0
81.1	Utility Line (power)		1.8	39.0
83.7	1-95 Highway Bridge	2,180	1.8	16.0
86.3	Utility Line (power)		1.8	57.0
90.8	Utility Line (power)		1.8	38.0
100.1	U.S. 21 Highway Bridge	2,030	1.3	15.0
100.6	Utility Line (power)		1.3	30.0
108.1	Utility Line (power)		1.3	26.0
108.8, 108.9, 109.1	Utility Line (power)		1.3	26.0
109.4	U.S. 78 Highway Bridge	1,940	1.3	14.0
110.4	Utility Line (power)		1.8	31.0
112.6	Southern Railroad Bridge	1,901	1.8	1.0

TABLE 4 (continued)

OBSTRUCTION LISTING FROM TIDAL INFLUENCE LIMIT TO RECOMMENDED PRACTICAL LIMIT OF NAVIGABLE WATERS OF THE U. S. (2)

S. Fork Edisto River Mile	Description	Mean Discharge (cfs)	Mean Water Slope (ft/mi)	Approximate Vertical Clearance To Obstruction (ft)
117.8	Utility Line (power)	15-1	1.8	30.0
122.5	S.C. Secondary 39-42 Highway Bridge	980	2.8	8.0
122.5	Utility Line (power)		2.8	31.0
126.7	Utility Line (power)		2.8	42.0
127.2	U.S. 601-301 Highway Bridge	970	2.8	8.0
127.2	Utility Line (gas-underground)		2.8	-2.51)
127.3	Utility Line (power)		2.8	30.0
130.9	Seaboard Coast Line Railroad Bridge	920	2.4	8.0
132.9	S.C. 70 Highway Bridge	910	2.4	16.0
136.6	Utility Line (power)		2.4	28.0
136.6	U.S. 321 Highway Bridge	850	2.6	11.0
N. Fork Edisto River Mile	Description	Mean Discharge (cfs)	Mean Water Slope (ft/mi)	Vertical Clearance To Obstruction (ft)
3.0	Utility Line (power)		2.5	45.0
3.0	S.C. Secondary 63 Highway Bridge	890	2.5	8.0
9.8	Utility Line (power)	G-1	2.5	25.7
9.8	S.C. Secondary 39 Highway Bridge	860	2.5	8.0

TABLE 4 (continued)

OBSTRUCTION LISTING FROM TIDAL INFLUENCE LIMIT TO RECOMMENDED PRACTICAL LIMIT OF NAVIGABLE WATERS OF THE U. S. (2)

Four Hole Swamp River Mile	Description	Mean Discharge (cfs)	Mean Water Slope (ft/mi)	Approximate Vertical Clearance To Obstruction (ft)
0.4	Utility Line (power)		0.3	28.7
0.4	S.C. Secondary 19 Highway Bridge	650	0.3	11.0
0.5	Utility Line (power)	++	0.3	29.0
3.5	S.C. Secondary 56 Highway Bridge	640	0.3	14.0

¹⁾ Estimated minimum depth below streambed at time of construction.



FIGURE 2 - UTILITY LINE (R.M. 42.8)



FIGURE 3 - UTILITY LINE (R.M. 49.2)

(WITH U. S. 17A HIGHWAY BRIDGE)



FIGURE 4 - U. S. 17A HIGHWAY BRIDGE (R.M. 49.3)



FIGURE 5 - UTILITY LINE (R.M. 50.5 AND 50.6)



FIGURE 6 - UTILITY LINE (R.M. 51.2)



FIGURE 7 - TWO UTILITY LINES (R.M. 57.5)



FIGURE 8 - UTILITY LINE (R.M. 58.5)

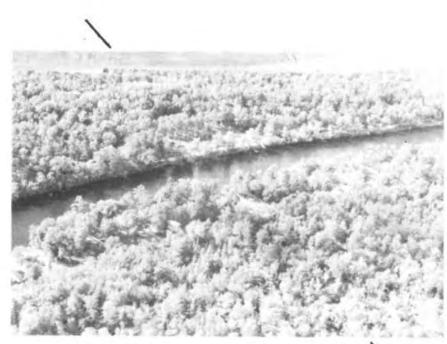


FIGURE 9 - UTILITY LINE (R.M. 59.7)



FIGURE 10 - S. C. 61 HIGHWAY BRIDGE (R.M. 59.9)



FIGURE 11 - S. C. SECONDARY 29-21 HIGHWAY BRIDGE (R.M. 72.4)



FIGURE 12 - UTILITY LINE (R.M. 72.4)
(WITH SECONDARY 29-21)



FIGURE 13 - U. S. 15 HIGHWAY BRIDGE (R.M. 80.1)



FIGURE 14 - UTILITY LINE (R.M. 80.1)
(WITH U. S. 15 HIGHWAY)

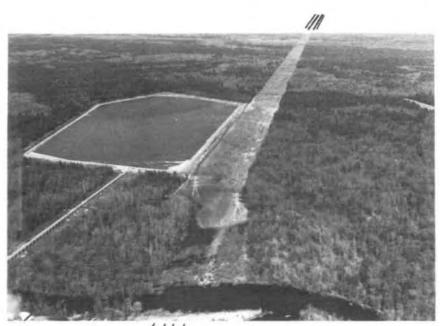


FIGURE 15 - FOUR UTILITY LINES (R.M. 80.4)



FIGURE 16 / UTILITY LINE (R.M. 80.6)



FIGURE 17 - UTILITY LINE (R.M. 81.1)

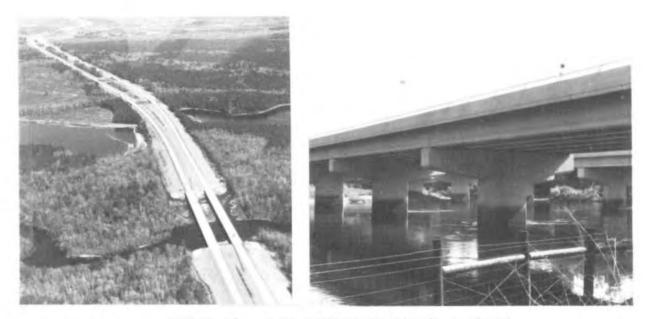


FIGURE 18 - I-95 HIGHWAY BRIDGE (R.M. 83.7)



FIGURE 19 - UTILITY LINE (R.M. 86.3)



FIGURE 20 - UTILITY LINE (R.M. 90.8)

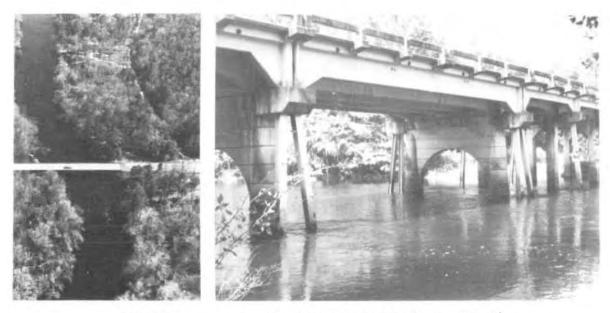


FIGURE 21 - U. S. 21 HIGHWAY BRIDGE (R.M. 100.1)

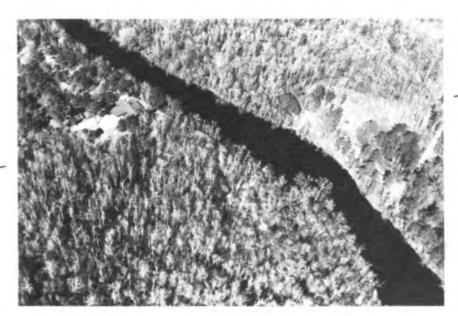


FIGURE 22 - UTILITY LINE (R.M. 10G.6)



FIGURE 23 - UTILITY LINE (R.M. 108.1)



FIGURE 24 - U. S. 78 HIGHWAY BRIDGE AND UTILITY LINE (R.M. 108.8, 108.9, 109.1 AND 109.4)



FIGURE 25 - UTILITY LINE (R.M. 110.4)





FIGURE 26 - SOUTHERN RAILROAD BRIDGE (R.M. 112.6)



FIGURE 27 - UTILITY LINE (R.M. 117.8)



FIGURE 28 - S. C. SECONDARY 39-42 HIGHWAY BRIDGE (R.M. 122.5)



FIGURE 29 - UTILITY LINE (R.M. 122.5)
(WITH SECONDARY 39-42)



FIGURE 30 - UTILITY LINE (R.M. 126.7)



FIGURE 31 - U. S. 601-301 HIGHWAY BRIDGE, EASTBOUND (R.M. 127.2)



FIGURE 32 - U. S. 601-301 HIGHWAY BRIDGE (R.M. 127.2)



FIGURE 33 - UTILITY LINE (R.M. 127.3)





FIGURE 34 - SEABOARD COAST LINE RAILROAD BRIDGE (R.M. 130.9)





FIGURE 35 - S. C. 70 HIGHWAY BRIDGE (R.M. 132.9)

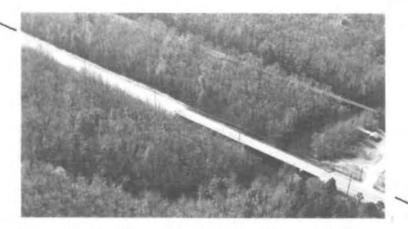


FIGURE 36 - UTILITY LINE (R.M. 136.6) (WITH U. S. 321)



FIGURE 37 - U. S. 321 HIGHWAY BRIDGE (R.M. 136.6)



FIGURE 38 - UTILITY LINE (R.M. 0.4)
(WITH SECONDARY 19 AND UTILITY)



FIGURE 39 - S. C. SECONDARY 19 HIGHWAY BRIDGE (R.M. 0.4)



/ FIGURE 40 - UTILITY LINE (R.M. 0.5)

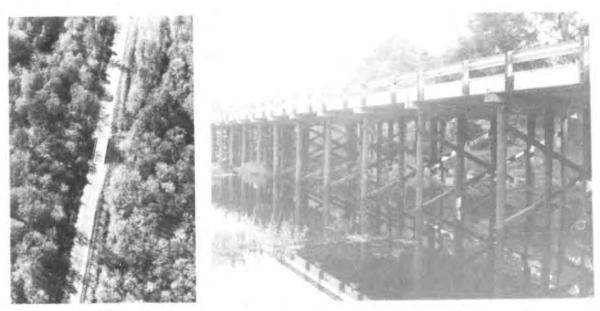


FIGURE 41 - S. C. SECONDARY 56 HIGHWAY BRIDGE (R.M. 3.5)



FIGURE 42 - UTILITY LINE (R.M. 3.0)
(AND SECONDARY 63)



FIGURE 43 - S. C. SECONDARY 63 HIGHWAY BRIDGE (R.M. 3.0)



FIGURE 44 - UTILITY LINE (R.M. 9.8)
(AND SECONDARY 39)



FIGURE 45 - S. C. SECONDARY 39 HIGHWAY BRIDGE (R.M. 9.8)

SECTION 7 - CONCLUSIONS AND RECOMMENDATIONS

Five classifications of navigation on streams in the Edisto River report area have been determined and are presented below. The first two are classifications developed from historical evidence and current Federal stream classifications. Classification 3 is based on field measurements, observations, and data analysis for the river. Classification 4 is based on review of all previously determined limits with a recommendation of the most upstream locations with supporting evidence of navigability. The fifth classification accounts for all streams not otherwise classified and was determined based on the drainage area and hydrological aspects of the stream.

- Presently the Edisto River is classified as "navigable waters of the U. S." between its mouth at St. Helena Sound and Guignards Landing (R.M. 154). This classification includes 41 miles of the South Fork Edisto River. The North Fork Edisto River is classified from its mouth to Orangeburg (R.M. 27.2). Four Hole Swamp is presently classified as "navigable waters of the U. S." from its mouth to R.M. 5.0. All tidally influenced streams or parts of streams are classified as "navigable waters of the U. S."
- Historically, the Edisto and South Fork Edisto Rivers were navigable to about R.M. 173. The North Fork Edisto River was navigable as far as R.M. 50. Four Hole Swamp has been estimated to have been navigable for approximately 5 miles.
- 3. The recommended practical limit of navigation on the Edisto and South Fork Edisto Rivers is at U. S. 321 (R.M. 136.6). The recommended practical limit of navigation on the North Fork Edisto River is at S. C. Secondary 39 (R.M. 9.8). The recommended practical limit of navigation on Four Hole Swamp is at S. C. Secondary 56 (R.M. 3.5). No recommendation of practical limits for tidally influenced streams or parts of streams has been made.

- 4. Since an authorized project establishes "navigable waters of the U. S." on the Edisto River between its mouth and Guignards Landing (R.M. 154), and this cannot be declassified, the recommended limit for classifying "navigable waters of the U. S." is at R.M. 154. This includes 41 miles of the South Fork Edisto River. It is also recommended based on Corps of Engineer information that North Fork Edisto River and Four Hole Swamp be classified "navigable waters of the U. S." to R.M. 27.2 and R.M. 5.0, respectively. It is recommended that all tidally influenced streams or parts of streams be classified as "navigable waters of the U. S."
- 5. All streams not recommended for classification as "navigable waters of the U. S." are recommended for classification as "waters of the U. S." throughout their entire length.

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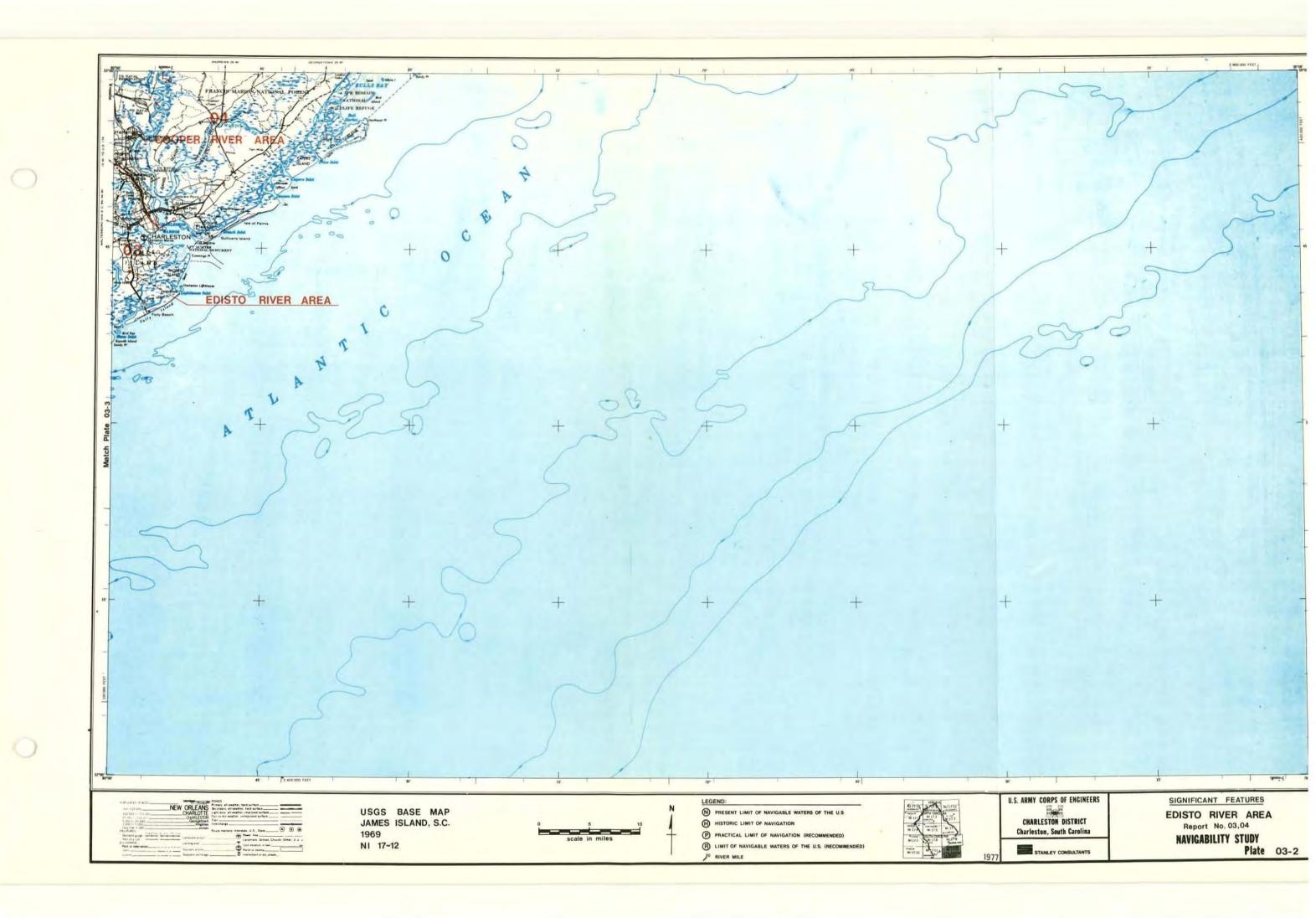
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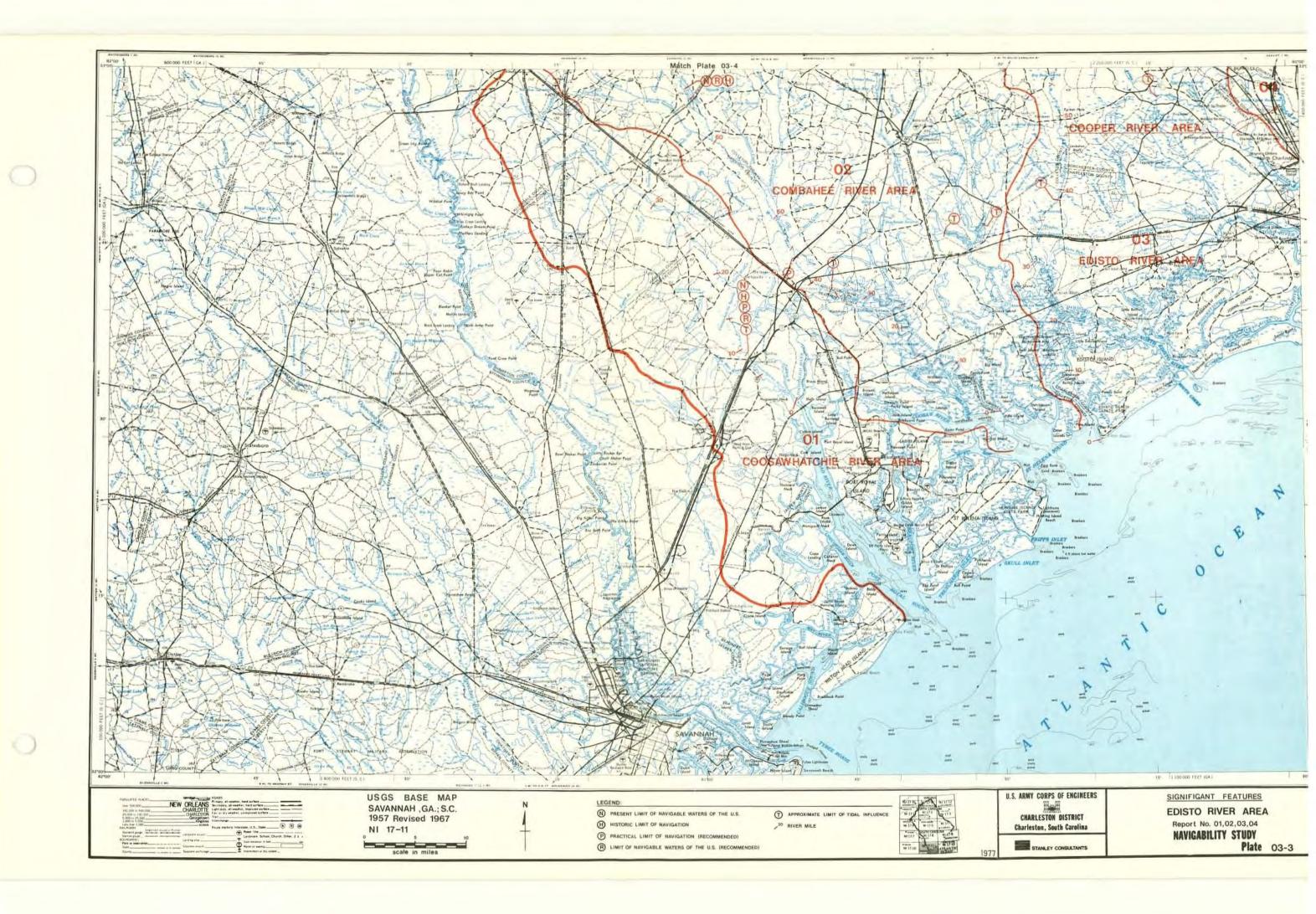
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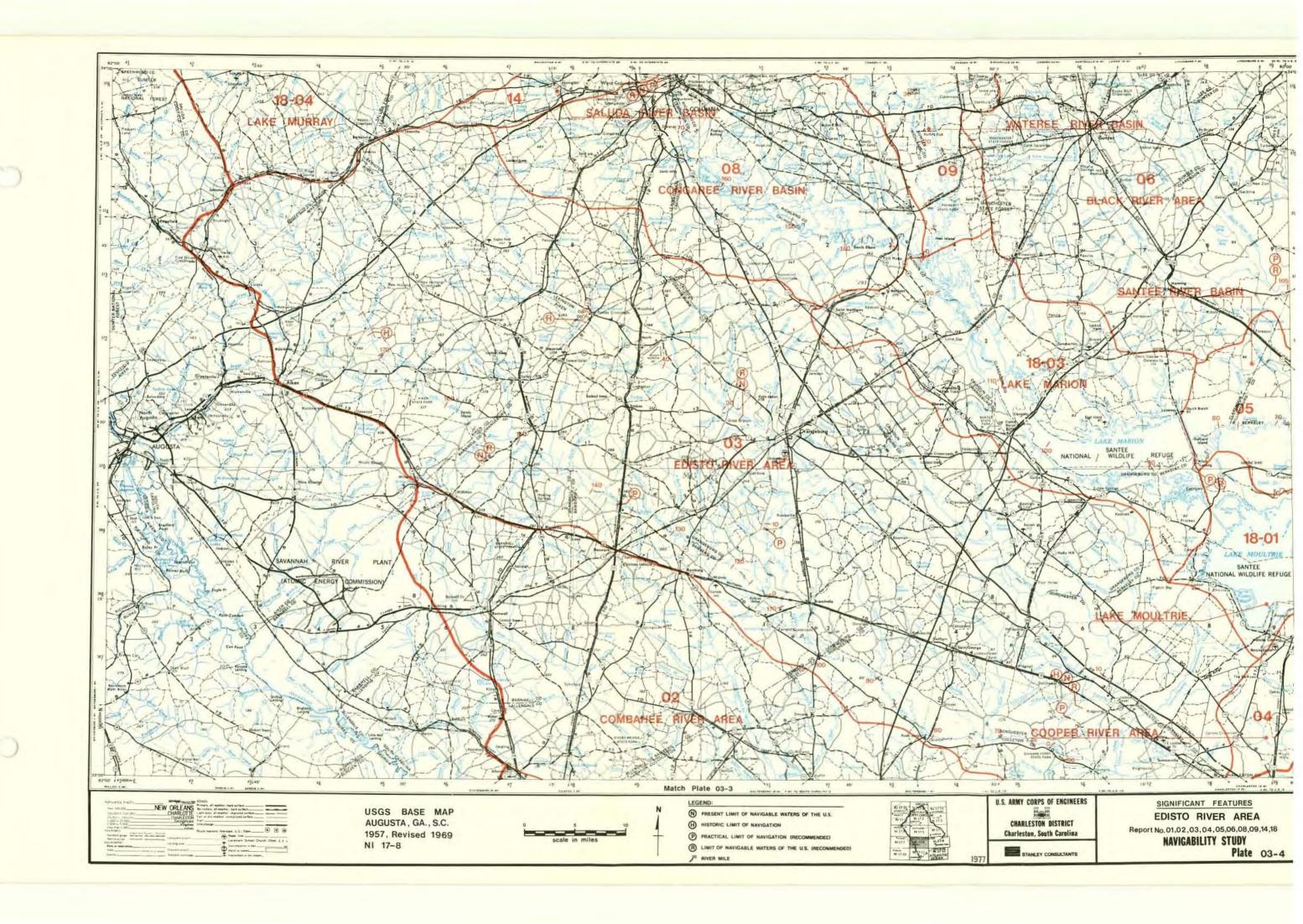
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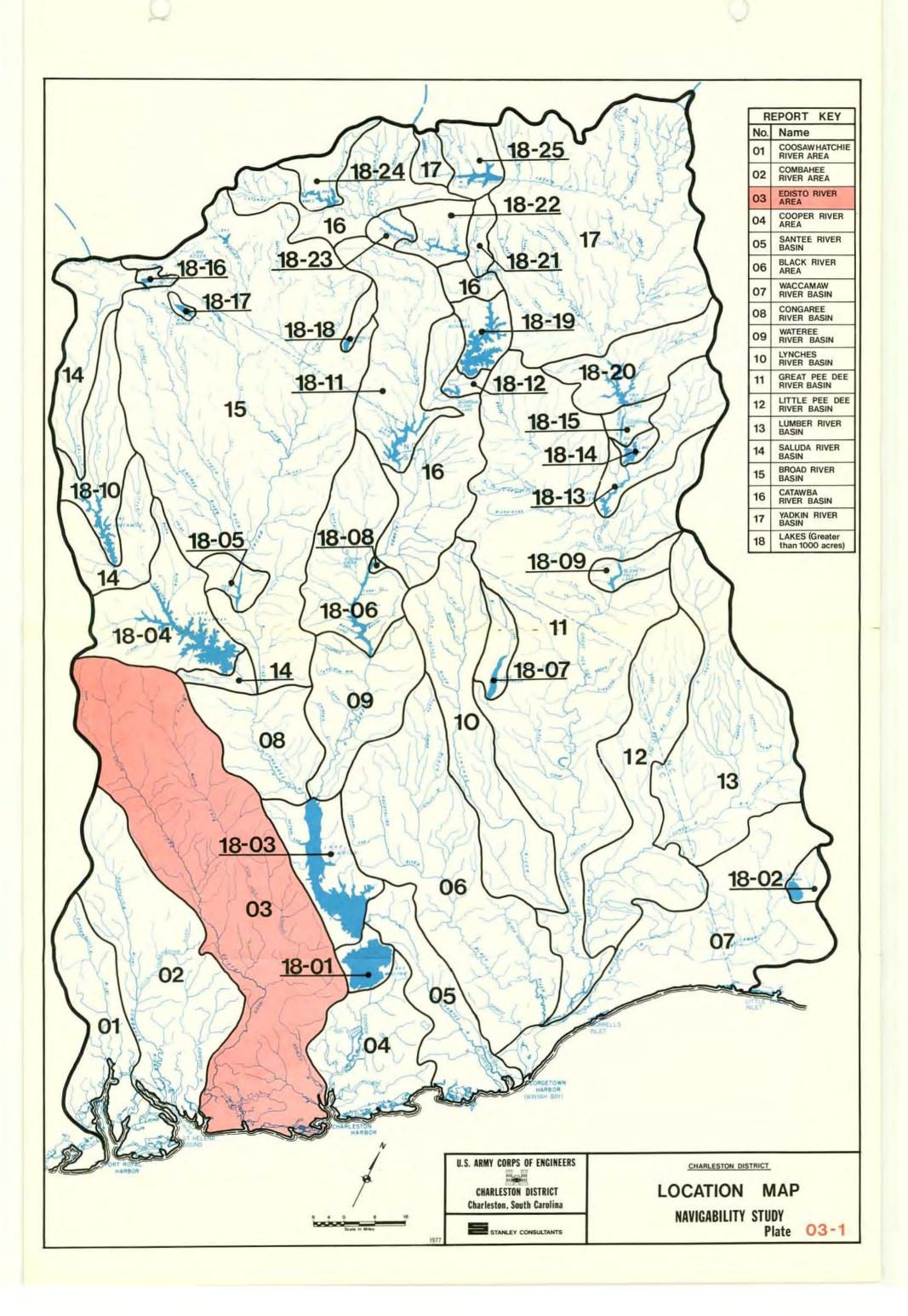
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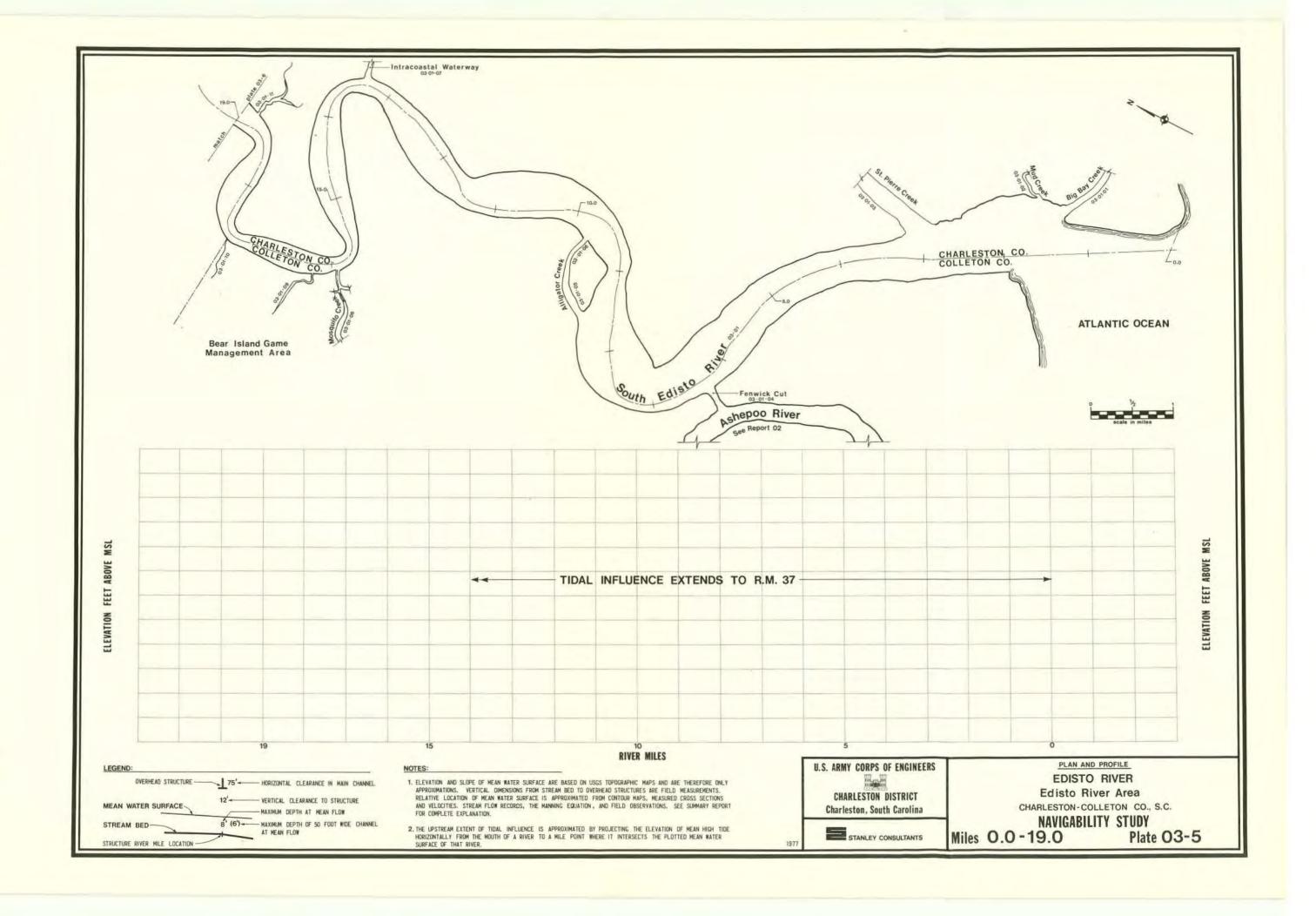
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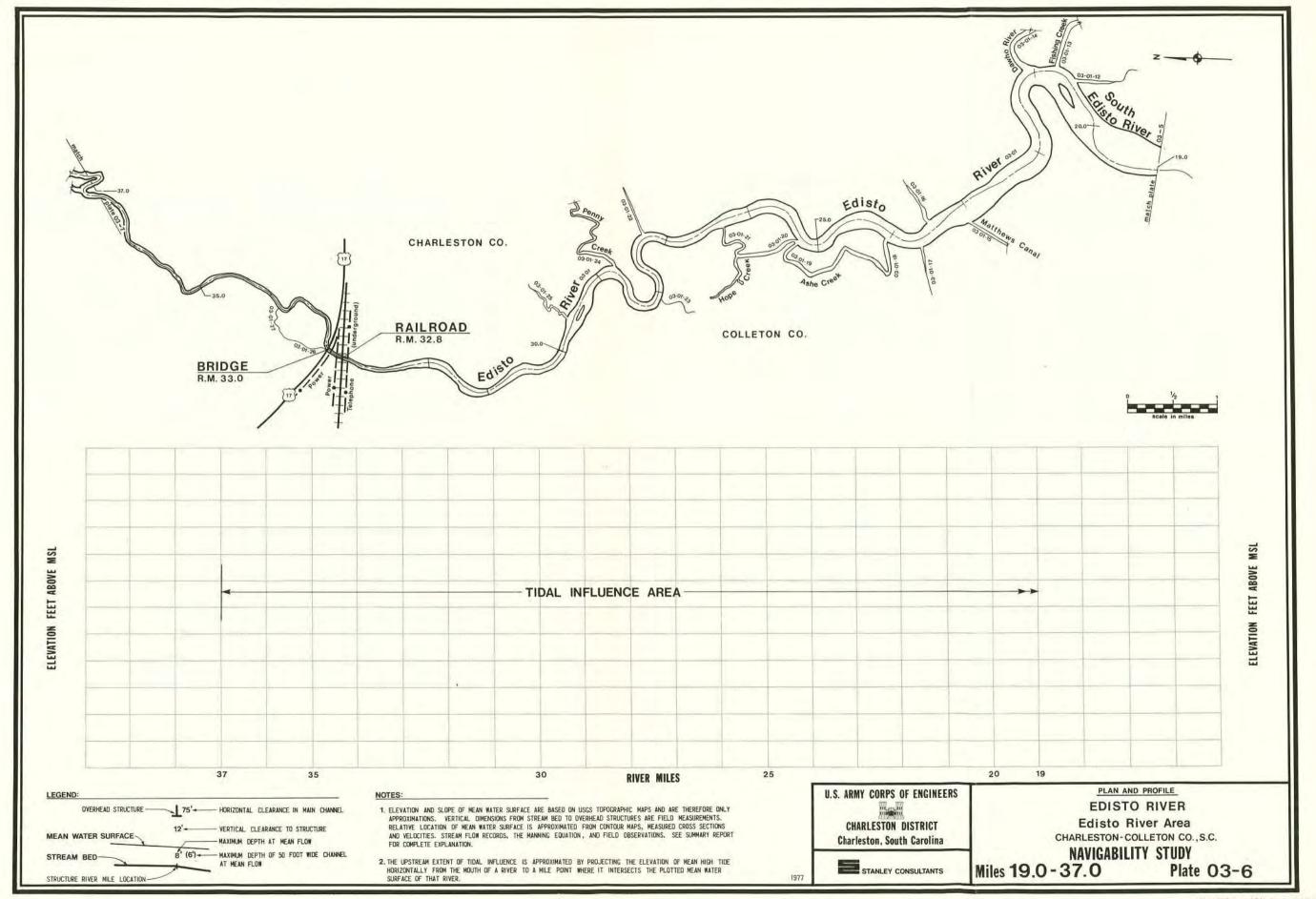


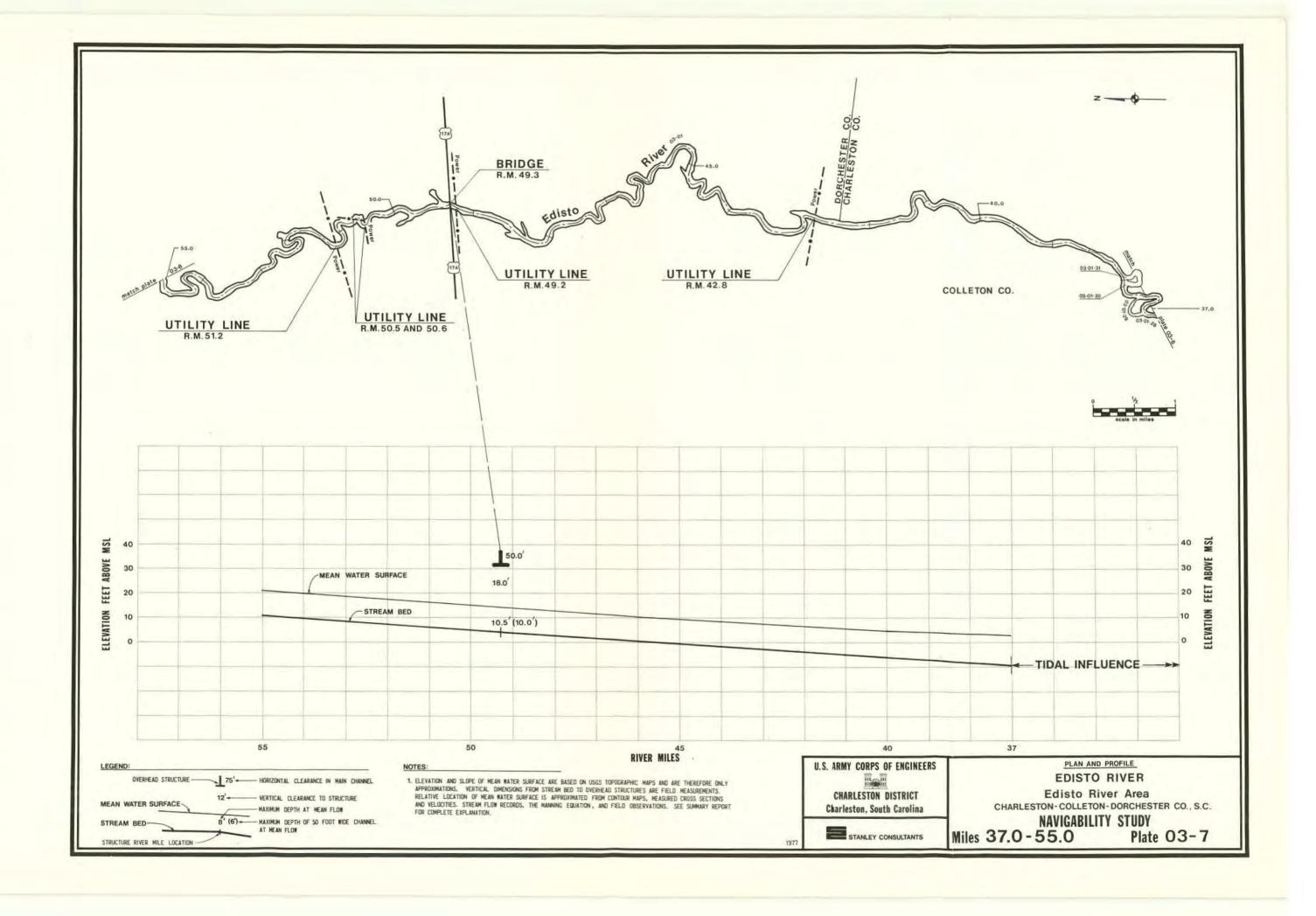


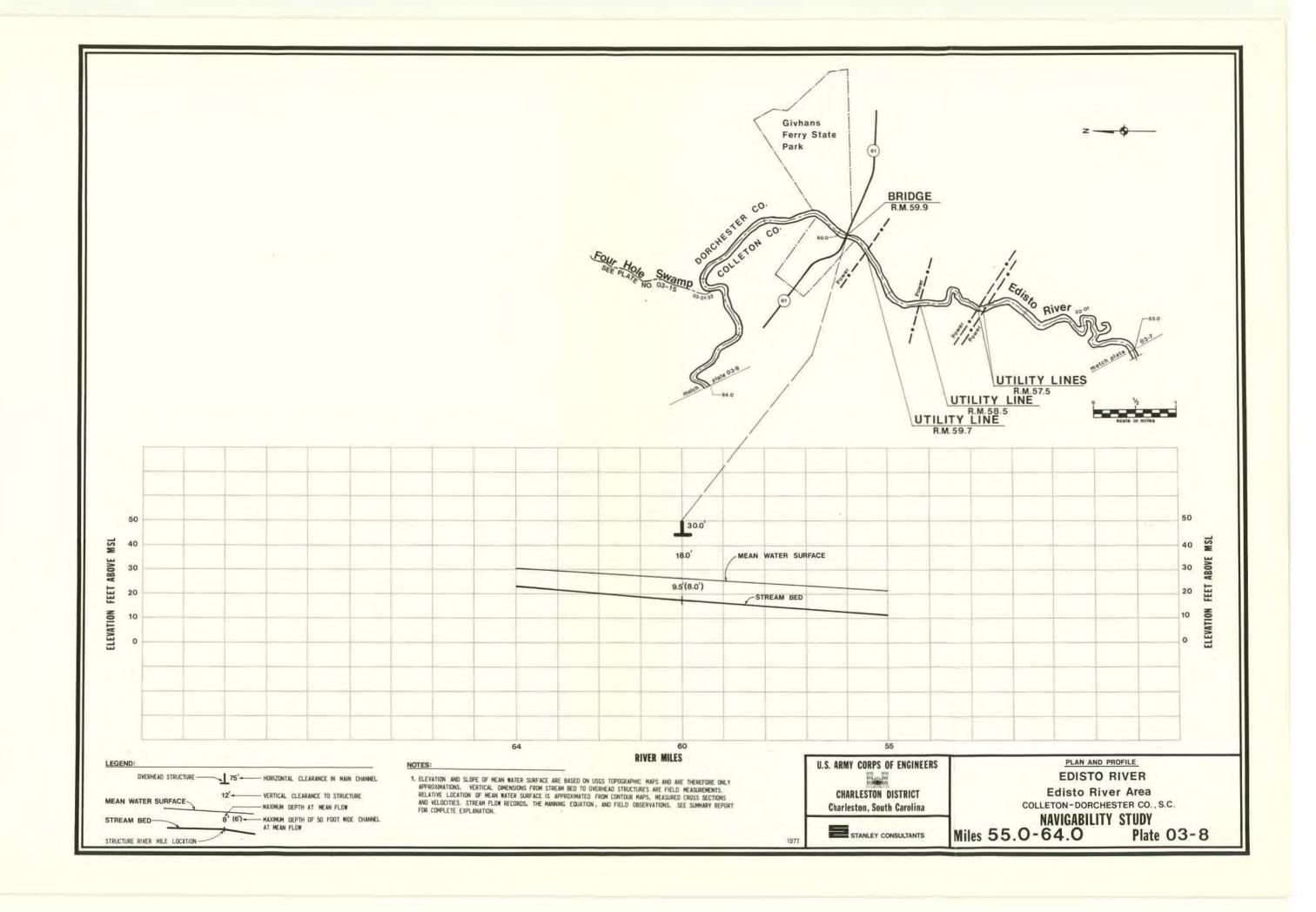


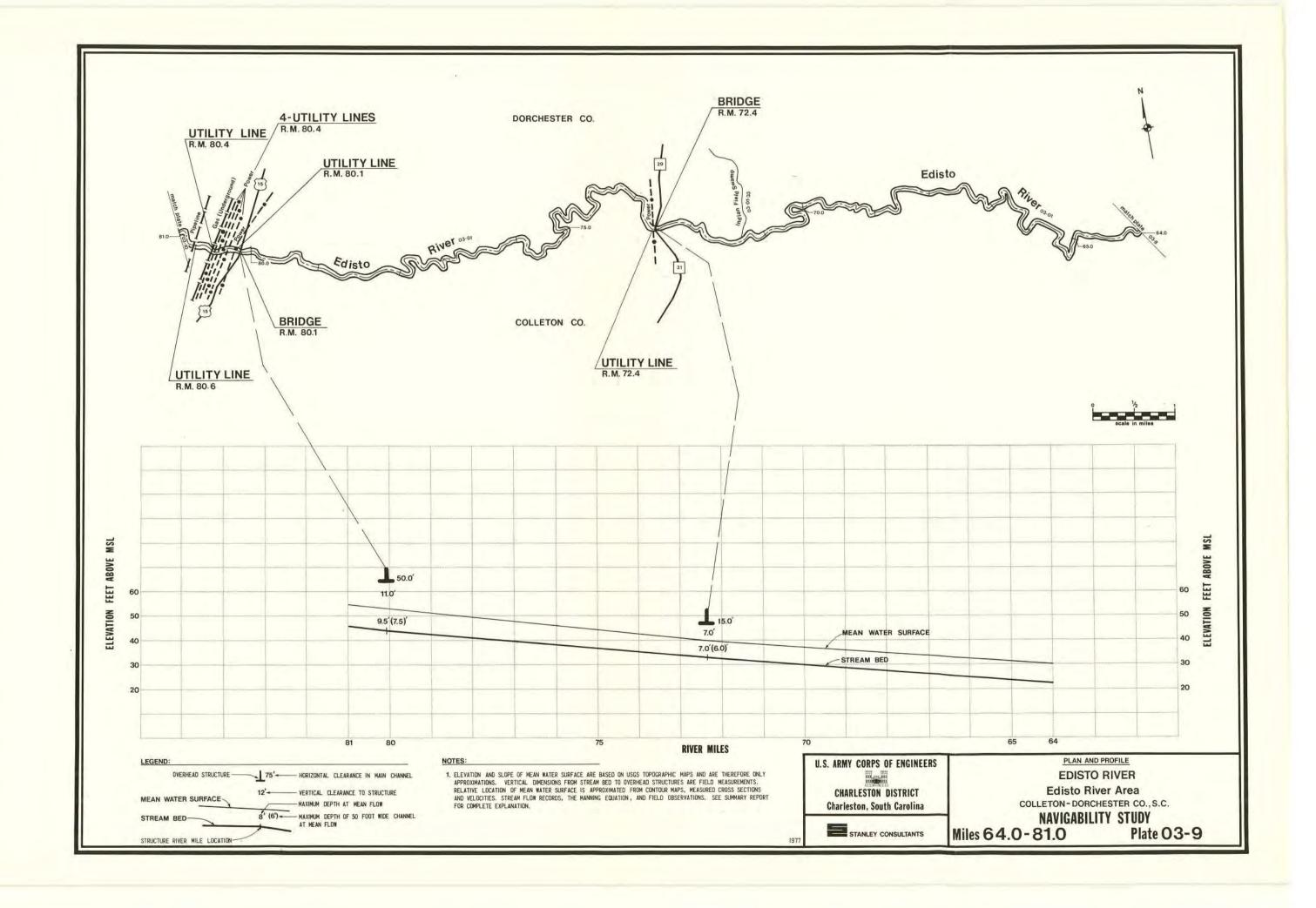


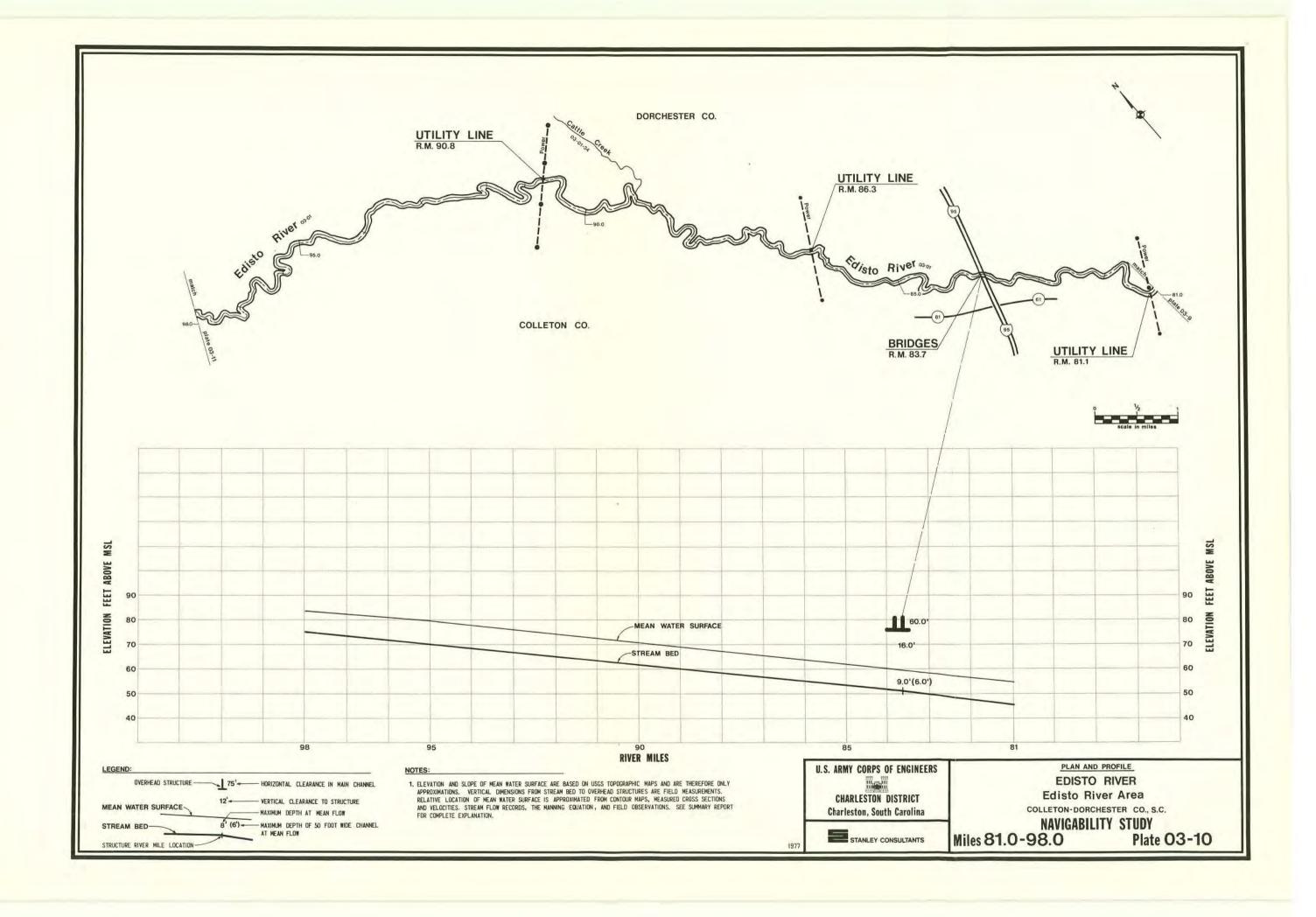


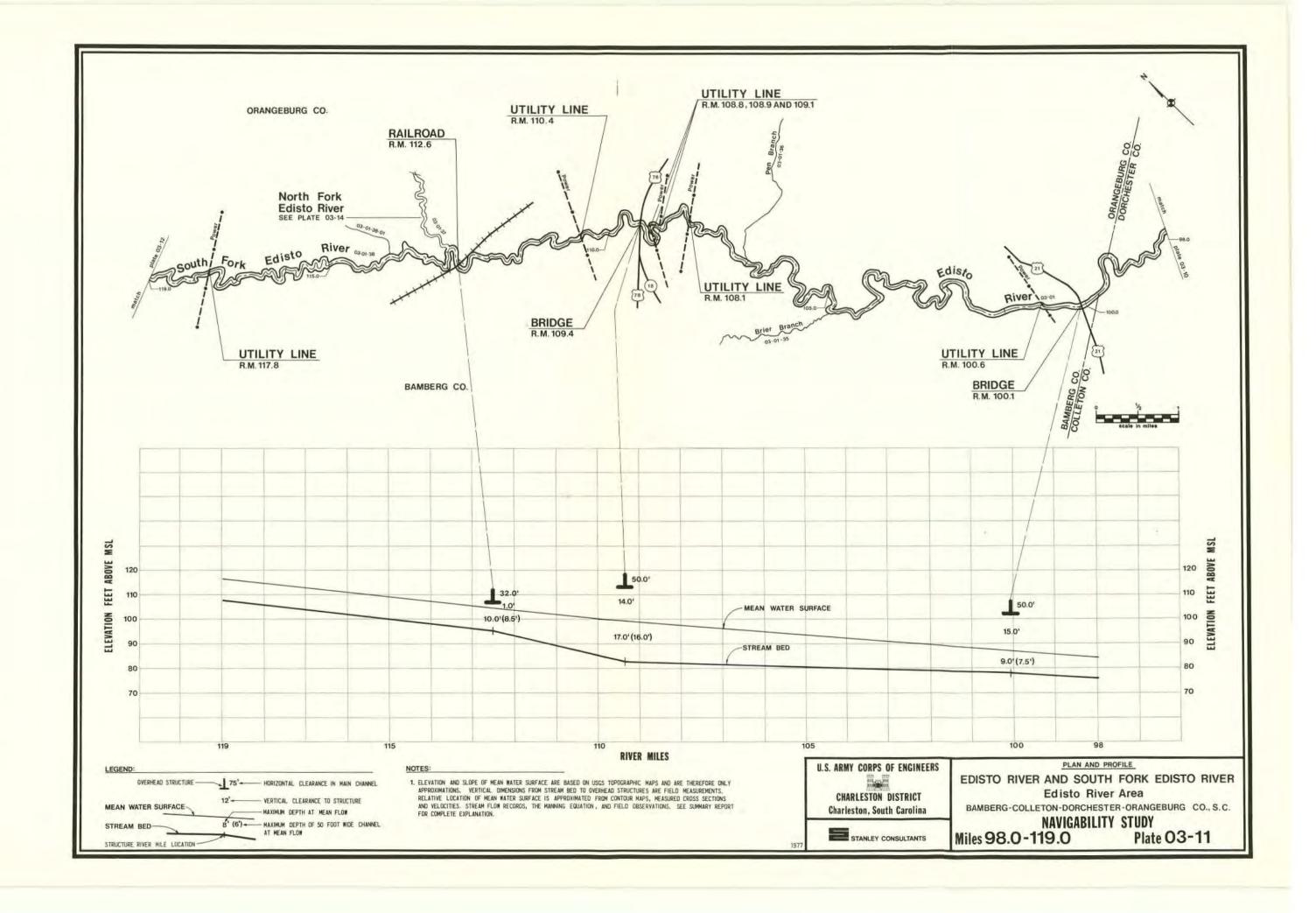


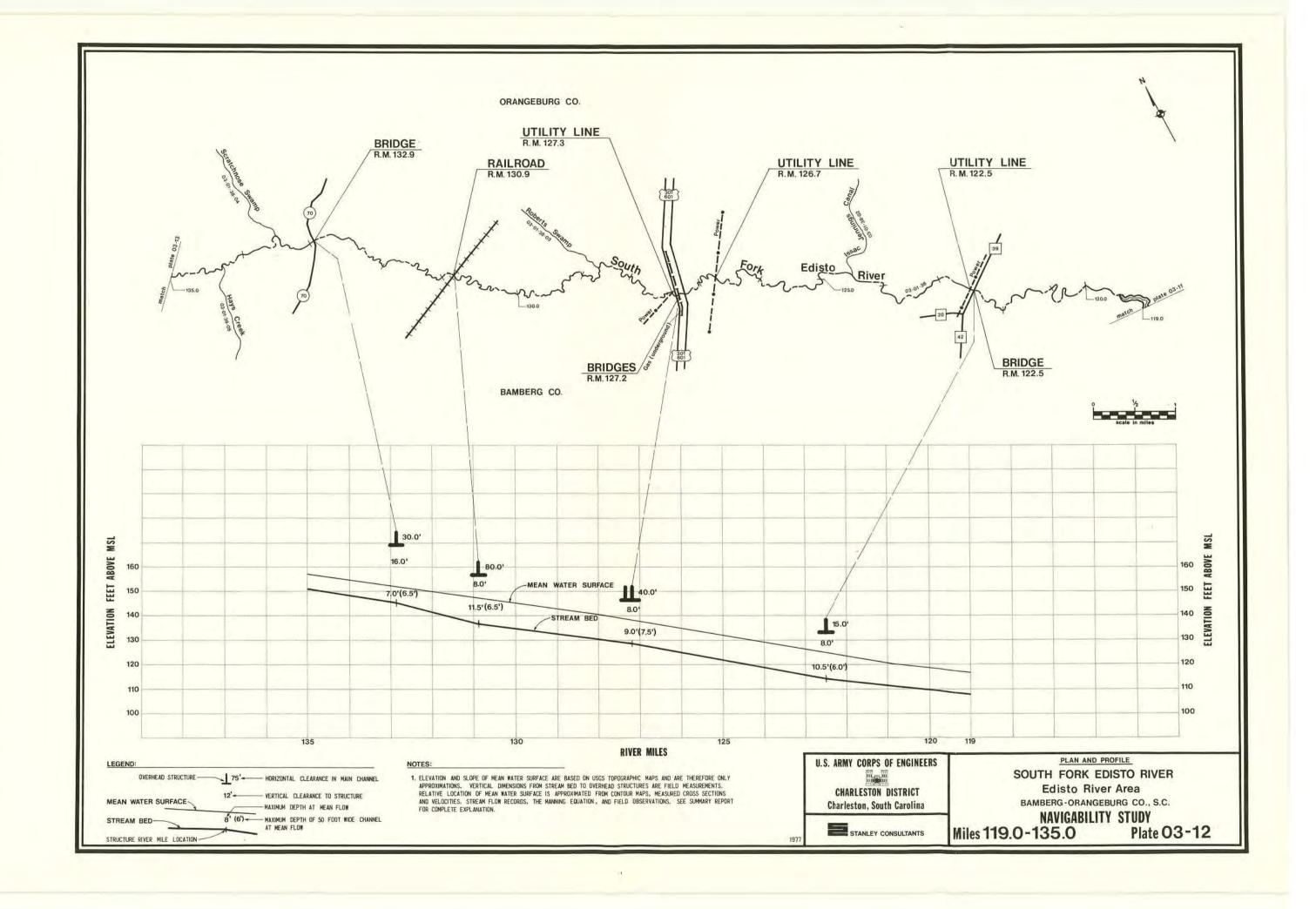


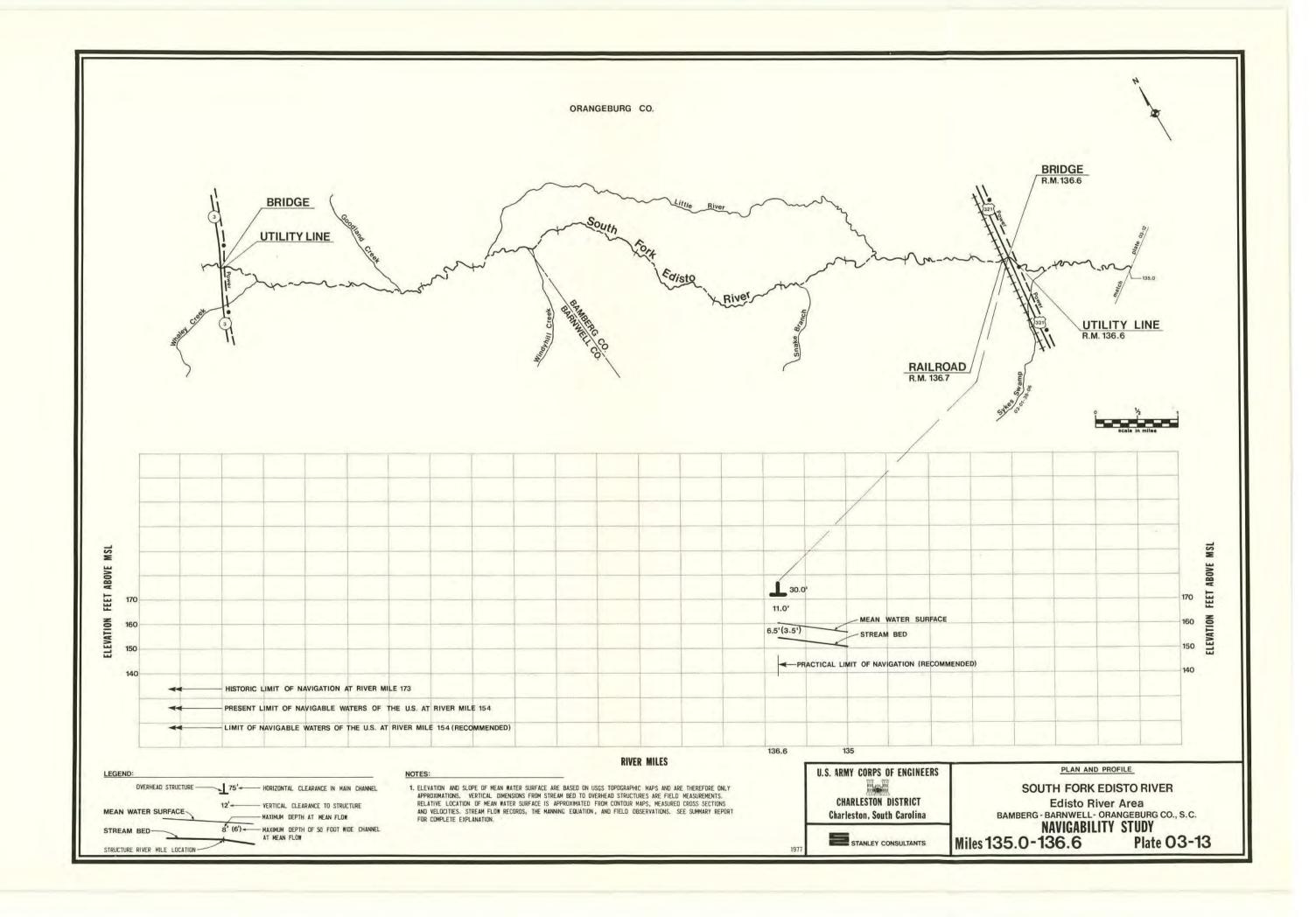


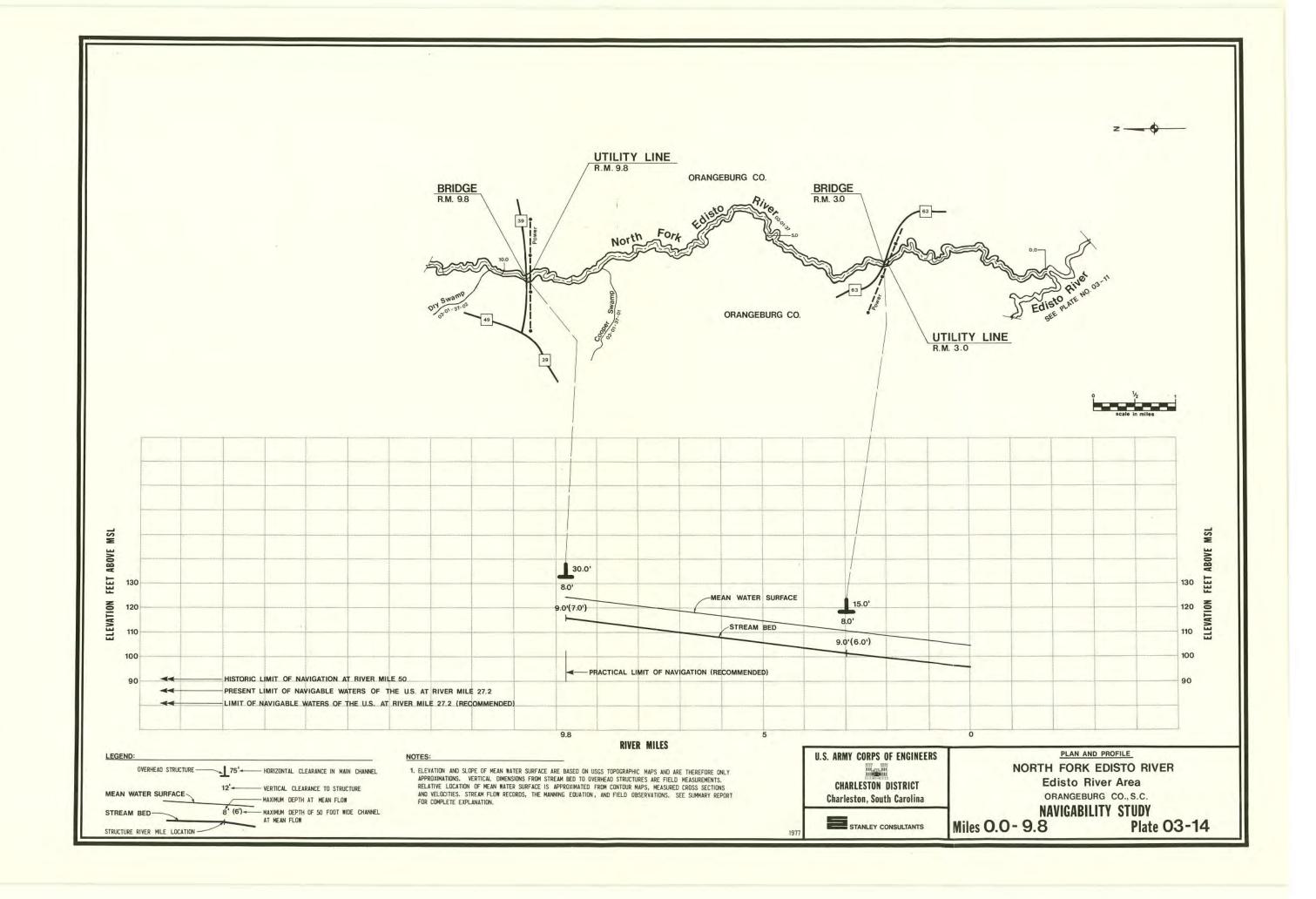


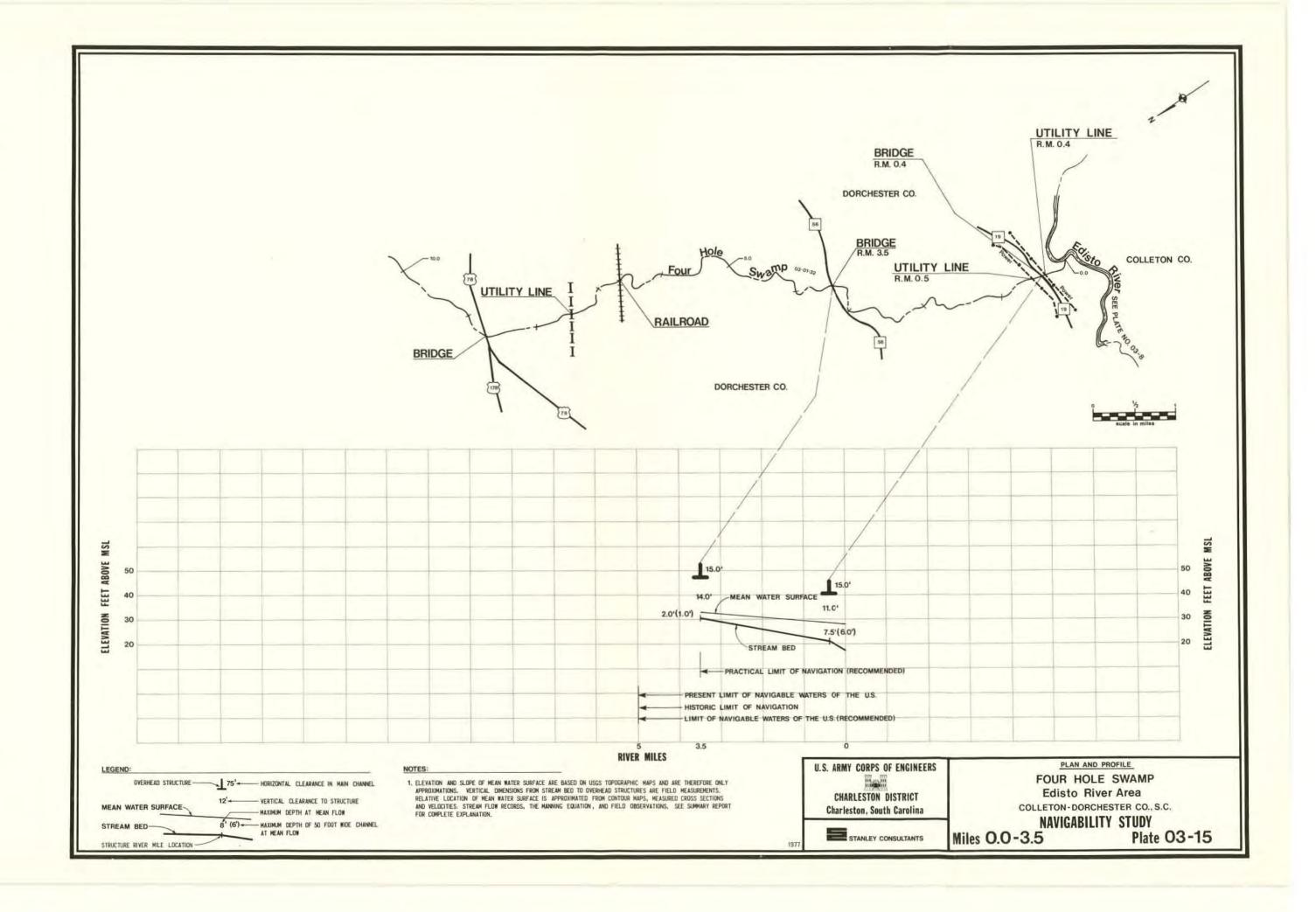












This appendix presents a coded listing of all non-tidal streams located in the Edisto River report area having a mean annual flow greater than or equal to five cfs. In tidal areas essentially all streams are coded; however, some very small, short streams and drainage tile systems were not coded.

Streams which are all or partially subject to tidal influence are noted in the listing. These are classified "navigable waters of the U. S." to the tidal limit. Non-tidal reaches of streams classified "navigable waters of the U. S." are covered in Section 6 of this report. All other streams not tidally influenced are classified "waters of the U. S."

The points where flow is approximately equal to five cfs (headwaters) are defined by approximate longitude and latitude, and river miles from the nearest named tributary, major highway, railroad, or other similar reference point. Some streams listed in the tabulation may not have headwater locations identified. This occurs when the name of a stream changes at a confluence where the flow immediately downstream is greater than five cfs. Thus, the headwater locations for streams with more than one name are associated with the appropriate upstream name found on USGS quadrangle maps. Some streams in this appendix listing are also coded in other reports for this study. Cross-references to specific reports are noted.

The coding system shown in the tabulation uses a procedure developed by the Charleston District, Corps of Engineers. Streams are summarized from the mouth of the major river upstream to the report boundary.

USGS data was used to identify the location where the mean annual stream flow is five cfs. Flow records from gaging stations throughout the Charleston District were evaluated and an isoflow map developed to indicate variations in runoff (cfs per square mile). These runoff values were then applied to the appropriate stream drainage areas (as determined from USGS quadrangle maps) so that a flow of five cfs was approximated.

1:	WWW /	PRIM PIVER	/	3/2/	STREAM NAME	LATITUDE	LONGITUDE		REAM	FROM
REPORT.	3	PPIN. P.	SECOM	TERTIARY FOLLO	STREAM NAME	The second second second	LONGITUDE		LES	FROM
4/	Fr.	Q.	15	12/2	14/	1	, ,	UP	DOWN	
3 (01				South Edisto River (St. Helena Sound) Prin	cinal outle	t of Edist	Rive	r to ocea	n.
3		01			Big Bay Creek * #	Cipai odtie	c or carsa	11176	To dea	
		-	01		Scott Creek * #					
			02		Fishing Creek * #					
		02			Mud Creek *					
			01		Unnamed Tributary *					
			02		Unnamed Tributary *					
		03			St. Pierre Creek *					
			01		Fishing Creek * #					
		- 1		01	Unnamed Tributary *	(1)				
				02	Big Bay Creek * #					
				03	Unnamed Tributary *					
			02		Store Creek *					
				01	Unnamed Tributary * #					

^{*} All or part tidally influenced.

1	7		/	M CODE	7 7 /	HEAL	DWATER LOC	ATTON	(Mean FI	ow = 5 cfs)
MUMBE	AIVER !	10/1	YANA	TAPY TE	STREAM NAME	LATITUDE	LONGITUDE			FROM
MANO	144	SEC	TEP	100		(" ")	(")	UP	DOWN	
01	03	02	02		Unnamed Tributary * #					
			03		Unnamed Tributary *					
			04							
- 1		03	0.1							
			02	01						
			03							
			04		Unnamed Tributary *					
			05		Unnamed Tributary *					
	04				Fenwick Cutt * ##					
	05				Alligator Creek * #					
	06									
	07						1			
		200								
		02			North Creek " #					
		01 03 04 05	01 03 02 03 04 05 06	01 03 02 02 03 04 03 01 02 03 04 05 06 07 01	01 03 02 02 03 04 03 01 02 01 03 04 05 06 07 01	01 03 02 02 Unnamed Tributary * # 03 Unnamed Tributary * 04 Ocella Creek * # 05 Unnamed Tributary * 08 Unnamed Tributary * 09 Unnamed Tributary * 01 Unnamed Tributary * 03 Unnamed Tributary * 04 Unnamed Tributary * Unnamed Tributar	01 03 02 02 Unnamed Tributary * #	01 03 02 02 Unnamed Tributary * #	01 03 02 02 Unnamed Tributary * #	01 03 02 02 Unnamed Tributary * # Unnamed Tributary * 04 Ocella Creek * # Bailey Creek * 01 Unnamed Tributary * Shingle Creek * 01 Milton Creek * 03 Unnamed Tributary * 04 Unnamed Tributary * 05 Unnamed Tributary * 06 Alligator Creek * # Alligator Creek * # Alligator Creek * # Watts Cut * Untracoastal Waterway* #

^{*} All or part tidally influenced.

	1	/	7	STREAM COD	7 /	HEAL	DWATER LOC	ATION	(Mean F	low = 5 cfs)
1	MAJOS HUMBES	PRIM. RIVER	14/	FERT MAY	STREAM NAME		LONGITUDE		REAM LES	FROM
PEP	MALL	PRIM. P.	SEC	17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	12/	(" ")	(")	UP	DOWN	
03	01	08			Mosquito Creek * ##					
			01		Sampson Island Creek #					
	1			01	Unnamed Tributary *					
				02	Unnamed Tributary *					
		- 1		03	Unnamed Tributary *					
	- 1			04	Unnamed Tributary *					
			02		Bull Cutt * ##					
		09			Unnamed Tributary *					
		10			Unnamed Tributary *					
		11			Unnamed Tributary *					
		12			Unnamed Tributary *				1 1	
		13			Fishing Creek * #					
			01		Unnamed Tributary *					
			02		Unnamed Tributary *					
			03		Unnamed Tributary *					
			04		Unnamed Tributary * #		1			

^{*} All or part tidally influenced.

[#] Dual code in Report 03.

	1	/	STREAM C		HEAL	DWATER LOC	ATION	(Mean F	low = 5 cfs)
/.	MAJOS HUMBES	PRIM RIVER	SECONDARY TERTIARY	STREAM NAME		LONGITUDE		REAM LES	FROM
PED	MACI	PRIM. P.	13/2/8	3/2/	(" ")	(")	UP	DOWN	
03	01	13	05	Unnamed Tributary * #					
			06	Dawho River * #					
		14		Dawho River * #					
		15		Matthews Canal *					
		16		Unnamed Tributary *					
		17		Unnamed Tributary *					
		18		Ashe Creek * #					
			01	Unnamed Tributary *					
		19		Ashe Creek * #					
		20		Hope Creek *					
			01	Unnamed Tributary *					
			02	Unnamed Tributary * #					
		21		Unnamed Tributary *					
		22		Unnamed Tributary * #					
		23		Unnamed Tributary *					
		24		Penny Creek *					

^{*} All or part tidally influenced.

	1		,	STREAM COL	DE			HEA	DWATE	R	LOC	ATION	(Mean	n Flow = 5 cfs)
/	MAJOO HUMBED	PRIME PIVER	SECOM	TEAT LARY FOUR	STREAM NAME	LAT	ritu		LONG		JDE	70.00	REAM	FROM
PEP	MA	14	SEC	12/2	12/	(°	,	")	(°	'	")	UP	DOWN	
03	01	24	01		Adams Run *									
				01	Unnamed Tributary *						- 1			
				02	Unnamed Tributary *									
			02		Unnamed Tributary *									
		25			Unnamed Tributary *									
		26			Unnamed Tributary * #	1								
		27			Unnamed Tributary * #									
		28			Unnamed Tributary * #									
		29			Unnamed Tributary * #									
		30			Unnamed Tributary * #									
		31			Unnamed Tributary * #	1					- 1		/	
		32			Four Hole Swamp	33	35	05	80	44	35	2.7		S.C. 33 Highway Bridge
			01		Timothy Creek	33	08	20	80	17	30	1.7		U.S. 78 Highway Bridge
			02		Halfway Gut Creek	33	07	30	80	22	15			At Seaboard Coast Line Railroad Bridge
- 1			03		Walnut Branch	33	10	10	80	24	40	0.8		Coldwater Branch

^{*} All or part tidally influenced.

APPENDIX A STREAM CATALOG

	1		,	STREA	M CODE				HEA	DWAT	ER	LOC	ATION	(Mea	n Flow = 5 cfs)
/	MAJOS HUMBES	PRIME RIVER	SECOM	TERT.	FOURTH	STREAM NAME	LA	гіт	UDE	LON	GIT	UDE		REAM LES	FROM
PEP	MA	1	13	17	100	E	(°	,	")	(°	,	")	UP	DOWN	
03	01	32	03	01		Little Walnut Branch Dean Swamp	33	10	40	80	23	20			Confluence-Cane Br
				01		Briner Branch	33	19	30	80	23	15	2.6		S.C. 31 Highway Bridge
				02		Black Creek	33	17	35	80	15	45	1.9	4	Cedar Swamp
- 1				03		Cedar Swamp									
		- 1			01	Sandy Run	33	22	20	80	20	55	6.8		Cedar Swamp
			05			Horserange Swamp	33	23	00	80	29	15	0.3		S.C. 31 Highway Bridge
	.		06			Providence Swamp	33	27	00	80	31	15	1.6		Canty Branch
			07			Cow Castle Creek									
				01		Buck Branch									
					01	Sandy Creek	33	23	45	80	46	40	2.3		S.C. Secondary 144; Highway Bridge
				02		Crum Branch	33	25	45	80	48	40	1.9		Cow Castle Creek
			08			Mill Branch	33	24	15	80	40	00	2.7		Four Hole Swamp
			09			Goodbys Swamp	33	29	15	80	36	35	3.7		Four Hole Swamp

APPENDIX A STREAM CATALOG

	1	$\int_{-\infty}^{\infty}$		STRE	M CODE				HEAL	DWATE	R	LOC	ATION	(Mea	n Flow = 5 cfs)
/.	MALOS NUMBES	PRIME RIVER	100	TEO.	FOURT	STREAM NAME	LAT	- 10-		LONG	SITU	JDE		REAM LES	FROM
PEP	MALL	PRIM. P.	SEC	12	To To	[]	(°	1	")	(°	r	")	UP	DOWN	
03	01	32	10			Indian Camp Branch	33	27	05	80	39	45	0.7		Four Hole Swamp
			11			Middle Pen Swamp	33	28	05	80	46	35	6.0		Four Hole Swamp
			12			Polk Spring Creek	33	30	50	80	39	30	0.7		S.C. 31 Highway Bridge
			13			Bull Swamp	33	33	05	80	46	45	1.7		S.C. 33 Highway Bridge
- 1				01		Little Bull Swamp	33	31	15	80	46	40	2.2		Gramling Creek
					01	Gramling Creek	33	30	15	80	47	45	2.4		Little Bull Creek
			14			Flea Bite Creek	33	35	25	80	41	00	1.1		Atlantic Coast Line Railroad Bridge
		33				Indian Field Swamp	33	14	45	80	34	50			U.S. 15 & 301 Highway Bridge
			01			Polk Swamp	33	14	05	80	39	15	2.9		U.S. 78 Highway Bridge
				01		Lee Branch	33	08	30	80	33	30	1.9		Polk Swamp
				02		Cowtail Creek	33	09	45	80	37	15	2.0		Polk Swamp
			02			Gum Branch	33	80	00	80	30	30	0.6		Indian Field Swamp

APPENDIX A STREAM CATALOG

	1	7	7	STREAM C				HEA	DWATE	ER	LOC	ATION	(Mea	n Flow = 5 cfs)
/	MAJOO HUMBED	PRIM. RIVER	SECOM	TERTIARY ESTIARY	STREAM NAME	LA	гіті	JDE	LONG	GIT	UDE		REAM	FROM
PED A	MANO	PRIM	SECO	12/2	3/4/	(°	1	")	(°	1	")	UP	DOWN	
03	01	34			Cattle Creek	33	19	45	80	46	20	0.7		S.C. Secondary 80 Highway Bridge
		35	- 1		Brier Branch	33	13	40	80	52	40	2.5		Edisto River
		36			Pen Branch	33	18	05	80	47	45	2.9		S.C. Secondary 121 Highway Bridge
		37			North Fork Edisto River									
			01		Cooper Swamp	33	24	50	80	59	00	1.5		S.C. 33 Highway Bridge
			02		Dry Swamp	33	22	15	80	54	10	1.3		North Fork Edisto
			03		Whirlwind Creek	33	24	50	80	54	35	2.6		S.C. 36 Highway Bridge
			04		Caw Caw Swamp	33	39	45	80	55	45	1.6		S.C. Secondary 220 Highway Bridge
				01	Early Branch	33	34	10	80	51	30	0.5		S.C. 210 Highway Bridge
				02	Saddler Swamp	33	37	10	80	50	15	3.5		Caw Caw Swamp
				03	Burke Creek	33	38	40	80	51	15	0.8		S.C. Secondary 119 Highway Bridge

APPENDIX A STREAM CATALOG

	1			STREA	M CODE				HEA	DWAT	ER	LOC	ATION	(Mea	n Flow = 5 cfs)
/.	MALOS NUMBES	PRIM RIVER	SECOM	TERT.	FOURTH	STREAM NAME	LAT	TITI	JDE	LON	GITI	UDE		REAM	FROM
PED	MA	PRIME	186	TER	100/		(*	,	")	(°	1	")	UP	DOWN	
03	01	37	04	04		Murph Mill Creek									
					01	Mack Branch	33	40	15	80	53	20	0.4		Murph Mill Creek
		- 1		- 1	02	Crim Creek	33	40	25	80	52	55	0.7		Murph Mill Creek
			05			Great Branch	33	30	10	81	00	10	2.2		S.C. 4 Highway Bridge
			06			Limestone Creek	33	37	00	80	57	45	1.0		Limestone Road
				01		Little Limestone Creek	33	35	55	80	56	45	0.8		Limestone Creek
			07			Double Branch	33	32	50	81	00	50	1.4		Edisto River
			08			Long Branch	33	35	30	81	00	15			At Amaker Pond
			09			Bull Swamp Creek	33	46	45	81	08	10	0.8		Boggy Branch
				01		Little Bull Swamp Creek									
					01	Cowpen Swamp	33	40	05	81	00	15	1.0		Layseth Millpond
			- 1	02		Third Creek	33	43	10	81	02	55	0.8		Redmond Pond
				03		Fourth Creek	33	45	05	81	05	55	0.2		S.C. 3 Highway Bridg
			10			Turkey Branch	33	33	30	81	04	30	1.2		Jones Bridge Road
			11			Big Beaver Creek	33	35	15	81	10	50	0.4		Jones Pond
- 1				01		Little Beaver Creek	33	34	30	81	07	40	1.2		Big Beaver Creek

APPENDIX A STREAM CATALOG

	1	/		STREAM CO	DE			HEA	DWAT	ER	LOC	ATION	(Mea	n Flow = 5 cfs)
/.	MALO NUMBER	PRIME RIVER	Ada A	TERTINGY FOURT	STREAM NAME	LA	TIT	UDE	LON	GIT	UDE		REAM LES	FROM
PEP.	MA	14	SEC	TER	2/2/	(*	1	")	(°	1	")	UP	DOWN	
03	01	37	12		Penn Branch	33	37	30	81	07	30	1.5		Edisto River
			13		Salem Creek	33	39	55	81	08	45	1.2		U.S. 178 Highway Bridge
			14		Unnamed Tributary									
				01	Pond Branch	33	43	15	81	10	20	1.1		Pooles Upper Millpon
			15		Hollow Creek	33	37	50	81	16	00	2.3		Little Hollow Creek
			16		Cedar Creek	33	46	45	81	13	45	1.0		Fort Pond
				01	Lynch Branch	33	45	05	81	15	10	0.3		Cedar Creek
			17		Black Creek	33	53	45	81	22	15	0.2		Jones Pond
				01	Little Black Creek	33	50	05	81	23	15	0.1		Bouknight Pond
				02	Pond Branch	33	52	15	81	21	15	0.7		Black Creek
			18		Giddy Swamp Creek	33	40	45	81	20	10	2.8		North Fork Edisto R
				01	Unnamed Tributary	33	40	20	81	19	25	0.5		Giddy Swamp Creek
			19		Wolf Pit Branch	33	44	30	81	23	45	1.0		North Fork Edisto R
			20		Marrow Bone Swamp Cr									
				01	Juniper Creek	33	42	50	81	25	00	0.9		Marrow Bone Swamp Cr

APPENDIX A STREAM CATALOG

O MAJOO MARES	ST PRIME ALVER	21	FOUR FOUR	STREAM NAME	LAT		JDE	LON	0.7		STR	EAM	
\neg			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	[]	("			LUM	GIII	JDE	MI	LES	FROM
01	37	21			1	1	")	(°	1	")	UP	DOWN	
				Chalk Hill Creek	33	44	15	81	28	10	1.0		Toms Creek
	- 1	22		Goose Platter Creek	33	46	15	81	30	05	4.5		North Fork Eidsto R
		23		Lightwood Knot Creek	33	54	05	81	26	45			At Shealy Pond
			01	Marlowe Creek	33	52	00	81	28	50	0.9		Lightwood Knot Cr
			02	Hellhole Creek	33	53	30	81	28	45			Confluence-Rocky Ford Creek
		24		Chinquapin Creek									
			01	Unnamed Tributary	33	49	05	81	31	30	0.4		Chinquapin Creek
			02	Unnamed Tributary	33	50	45	81	33	15	1.0		Chinquapin Creek
			03	Duncan Creek	33	52	45	81	32	30	1.7		Chinquapin Creek
	38			South Fork Edisto River	33	48	25	81	46	25	0.8		Temples Creek
		01		Unnamed Tributary	33	18	05	80	55	30	3.2		South Fork Edisto F
- 1		02		Issac Jennings Canal	33	19	50	80	58	45	0.6		South Fork Edisto F
		03		Roberts Swamp	33	29	15	81	04	00	4.8		Twomile Swamp
			01	Twomile Swamp	33	27	05	81	02	25	1.4		Roberts Swamp
		04		Scratchnose Swamp	33	25	15	81	05	40	3.0		South Fork Edisto F
		05		Hays Mill Creek	33	21	15	81	06	10	9.0		Stout Creek
		38	38 01 02 03	01 02 03 38 01 02 03 01	01 Unnamed Tributary 02 Unnamed Tributary 03 Duncan Creek South Fork Edisto River Unnamed Tributary 1 Unnamed Tributary 04 Unnamed Tributary 1 Unn	01 Unnamed Tributary 33 02 Unnamed Tributary 33 03 Duncan Creek 33 South Fork Edisto River 33 Unnamed Tributary 33 Unnamed Tributary 33 Unnamed Tributary 33 Issac Jennings Canal 33 Roberts Swamp 33 Twomile Swamp 33 Scratchnose Swamp 33	01 Unnamed Tributary 33 49 02 Unnamed Tributary 33 50 03 Duncan Creek 33 52 South Fork Edisto River 33 48 01 Unnamed Tributary 33 18 02 Unnamed Tributary 33 18 1ssac Jennings Canal 33 19 Roberts Swamp 33 29 Twomile Swamp 33 27 Scratchnose Swamp 33 25	01 Unnamed Tributary 33 49 05 02 Unnamed Tributary 33 50 45 03 Duncan Creek 33 52 45 South Fork Edisto River 33 48 25 Unnamed Tributary 33 18 05 02 Unnamed Tributary 33 18 05 1ssac Jennings Canal 33 19 50 Roberts Swamp 33 29 15 Twomile Swamp 33 27 05 Scratchnose Swamp 33 25 15	O1	Unnamed Tributary 33 49 05 81 31 Unnamed Tributary 33 50 45 81 33 Unnamed Tributary 33 50 45 81 33 Unnamed Tributary 33 52 45 81 32 South Fork Edisto River 33 48 25 81 46 Unnamed Tributary 33 18 05 80 55 Unnamed Tributary 33 18 05 80 55 Issac Jennings Canal 33 19 50 80 58 Roberts Swamp 33 29 15 81 04 Twomile Swamp 33 27 05 81 02 Scratchnose Swamp 33 25 15 81 05	01 Unnamed Tributary 33 49 05 81 31 30 Unnamed Tributary 33 50 45 81 33 15 Duncan Creek 33 52 45 81 32 30 South Fork Edisto River 33 48 25 81 46 25 Unnamed Tributary 33 18 05 80 55 30 Issac Jennings Canal 33 19 50 80 58 45 Roberts Swamp 33 29 15 81 04 00 Twomile Swamp 33 27 05 81 02 25 Scratchnose Swamp 33 25 15 81 05 40	O1 Unnamed Tributary 33 49 05 81 31 30 0.4 Unnamed Tributary 33 50 45 81 33 15 1.0 Duncan Creek 33 52 45 81 32 30 1.7 South Fork Edisto River 33 48 25 81 46 25 0.8 Unnamed Tributary 33 18 05 80 55 30 3.2 Issac Jennings Canal 33 19 50 80 58 45 0.6 Roberts Swamp 33 29 15 81 04 00 4.8 Twomile Swamp 33 27 05 81 02 25 1.4 Scratchnose Swamp 33 25 15 81 05 40 3.0	Chinquapin Creek Unnamed Tributary 33 49 05 81 31 30 0.4 Unnamed Tributary 33 50 45 81 33 15 1.0 Duncan Creek 33 52 45 81 32 30 1.7 South Fork Edisto River 33 48 25 81 46 25 0.8 Unnamed Tributary 33 18 05 80 55 30 3.2 Unnamed Tributary 33 18 05 80 58 45 0.6 Roberts Swamp 33 29 15 81 04 00 4.8 Twomile Swamp 33 27 05 81 02 25 1.4 Scratchnose Swamp 33 25 15 81 05 40 3.0

	1	$\overline{}$		STREA	M CODE				HEAD	TAWC	ER	LOC	ATION	(Mean	Flow = 5 cfs)
/.	MALOS NUMBES	PRIME RIVER	SECOM	TERT.	FOWETH	STREAM NAME	LA	гіт	UDE	LON	GIT	UDE		REAM LES	FROM
PER	MALIO	PRIM. P.	SECO	TER	100	STREAM NAME	(*	,	")	(°	1	")	UP	DOWN	
03	01	38	05	01		Stout Creek	33	21	45	81	06	35	4.0		Hays Mills Creek
			06			Sykes Swamp	33	22	15	81	09	00	1.9		South Fork Edisto R
			07			Little River #							()		
				01		Willow Swamp	33	29	25	81	07	35	6.1		Little River
		- 1		02		Rocky Swamp Creek	33	30	20	81	11	15	0.4		Bolen Mill Creek
					01	Bolen Mill Creek	33	31	20	81	10	15	1.8		Rocky Swamp Creek
			08			Snake Branch	33	23	30	81	11	30	1.8		South Fork Edisto R
		- 1	09			Windy Hill Creek	33	23	30	81	16	15	1.6		Sheepford Branch
				01		Sheepford Branch	33	23	30	81	14	45	0.5		Windyhill Creek
			10			Little River #									
			11			Goodland Creek	33	33	55	81	17	10	1.5		Gin Branch
				01		Tampa Creek	33	33	00	81	13	55	4.2		Goodland Creek
			12			Whaley Creek	33	24	45	81	19	35	5.1		South Fork Edisto R
			13			Spur Branch	33	24	35	81	21	30	4.8		South Fork Edisto R
			14			Dean Swamp Creek	33	39	55	81	27	15	1.7		Cooks Bridge Road
				01		Jordan Creek	22	26	30	81	20	00	1.3		Millers Pond

Dual code in Report 03.

APPENDIX A STREAM CATALOG

	1		5	TREAM COL	DE /			HEAL	TAWC	ER	LOC	ATION	(Mea	Flow = 5 cfs)
/.	MAJOO NUMBER	PRIME AIVER	SECONO	TERTIARY FOUR	STREAM NAME	LAT	ITU	IDE	LON	GIT	UDE		REAM	FROM
PED 1	MAN	PRIME	SEG	15 B	[] []	("	1	")	(°	,	")	UP	DOWN	
03	01	38	14	02	Unnamed Tributary	33	37	15	81	22	30	1.0		Dean Swamp Creek
			15		Yarrow Branch	33	26	05	81	25	10	0.8		David Bridge Road
			16		Pond Branch	33	27	30	81	26	40			Confluence-Buzzard Branch
				01	Long Branch	33	28	25	81	27	45	1.8		Pond Branch
			17		Hunter Branch	33	34	20	81	24	00			At S.C. 394 Highway Bridge
			18		Burcalo Creek	33	35	35	81	27	45			At S.C. 215 Highway Bridge
			19		Shaw Creek	33	45	50	81	50	35	0.4		S.C. Secondary 121 Highway Bridge
	1	- 1		01	Cedar Branch	33	32	15	81	31	55	1.7		Shaw Creek
				02	Chavous Creek	33	32	25	81	34	40	0.3		Johnson Millpond
				03	Redds Branch	33	34	00	81	38	45	1.7		Shaw Creek
				04	Joyce Branch	33	35	55	81	38	10	1.3		Shaw Creek
				05	Dairy Branch	33	38	30	81	42	55	0.2		Shaw Creek
		- 1	- 1	06	Paces Branch	22	1.0	15	91	lia	15	2.5		Shaw Creek

APPENDIX A STREAM CATALOG

	1	$\int_{-}^{}$,	TREAM COL	DE	HEA	ADWATER LO	CATION	(Mea	n Flow = 5 cfs)
/.	MAJOS HUMBED	PRIME RIVER	SECONO	TERT MAY	STREAM NAME	LATITUDE	LONGITUDE		REAM LES	FROM
PEP	MAN	PRIMA	38.60	P. P	STREAM NAME	(" "	(" ")	UP	DOWN	
03	01	38	19	07	Tiger Creek	33 45 55	81 48 20	1.1		Shaw Creek
			20		Cedar Creek	33 38 45	81 29 15	0.2		Cooks Bridge Road
		- 1	21		Rocky Springs Creek	33 43 00	81 31 45	0.5		Wildcat Branch
				01	Poplar Branch	33 40 00	81 32 05	1.3		Rocky Spring Creek
				02	Wildcat Branch	33 43 15	81 32 30	0.6		Rocky Spring Creek
			22		Beaverdam Branch	33 39 40	81 36 50			Confluence-Smith B
			23		McTier Creek	33 48 35	81 36 40	1.6		S.C. Secondary 151 Highway Bridge
				01	Boggy Branch	33 43 30	81 36 40	0.6		McTier Creek
				02	Gully Creek	33 46 40	81 33 35	3.8		McTier Creek
			24		Bridge Creek	33 42 15	81 39 45			Confluence-Mill Br
			25		Jumping Gut Creek	33 44 40	81 40 05	0.2		South Fork Edisto F
			26		Long Branch	33 44 05	81 41 55	1.4		South Fork Edisto F
			27		Bulls Branch	33 45 10	81 42 45	1.8		South Fork Edisto F
			28		Mill Creek					
				01	Flat Rock Creek	33 49 10	81 40 40	0.7		Pitts Branch

	1	/	7	STREAM CO				HEAD	TAW	ER	LOC	ATION	(Mea	n Flow = 5 cfs)
/	MAJOS NUMBER	PRIM. RIVER	SECOL	TERTIARY FOUNTARY	STREAM NAME	LAT	TIT	UDE	LON	GIT	UDE		REAM LES	FROM
PED	MACO	PRIM. P.	SEC	150	2/2/	(.	1	")	(°		")	UP	DOWN	
3	01	38	29		Beeck Creek	33	49	35	81	43	10	0.7		Old Plank Road
				01	Bog Branch	33	48	25	81	42	30	0.2		Beeck Creek
			30		Temples Creek	33	48	20	81	45	40			Confluence-Flat Roc Branch
	02				Scott Creek * # (Jeremy Inlet)									
		01			Unnamed Tributary *									
	03				Townsend River * (Frampton Inlet)									
		01			Unnamed Tributary *									
		02			Unnamed Tributary *									
		03			Unnamed Tributary *									
		04			Unnamed Tributary *									
		05			Unnamed Tributary *									
	04				South Creek * #									
		01			Unnamed Tributary * #									
			01		Unnamed Tributary * #									
		02			Ocella Creek * #				/					

 $[\]star$ All or part tidally influenced.

STREAM NAME LATITUDE (° ' ") Unnamed Tributary * # Fishing Creek * # Unnamed Tributary * North Edisto River * South Creek * # Privateer Creek * Unnamed Tributary *
Unnamed Tributary * # Fishing Creek * # Unnamed Tributary * North Edisto River * South Creek * # Privateer Creek * Unnamed Tributary *
Fishing Creek * # Unnamed Tributary * North Edisto River * South Creek * # Privateer Creek * Unnamed Tributary *
Unnamed Tributary * North Edisto River * South Creek * # Privateer Creek * Unnamed Tributary *
North Edisto River * South Creek * # Privateer Creek * Unnamed Tributary *
South Creek * # Privateer Creek * Unnamed Tributary *
Privateer Creek * Unnamed Tributary *
Unnamed Tributary *
Hannand Tributanu *
Unnamed Tributary *
01 Unnamed Tributary *
Unnamed Tributary *
Bohicket Creek *
Adams Creek *
01 Unnamed Tributary * 02 Unnamed Tributary *
03 Unnamed Tributary *
04 Unnamed Tributary *

^{*} All or part tidally influenced.

	1	/_	-	STREAM CO		HEAD	OWATER LOC	ATION	(Mean F	low = 5 cfs)
/	MAJOS HUMBES	PRIM. RIVER	Tole !	TERTIARY FO.	STREAM NAME	LATITUDE	LONGITUDE		REAM LES	FROM
PED	MAL	PRIM P.	SEC	1 2 / 8	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(" ")	(" ")	UP	DOWN	
03	05	03	02		Unnamed Tributary # #					
			03		Unnamed Tributary * #					
			04		Unnamed Tributary *					
			05	11	Unnamed Tributary *					
			06		Fickling Creek *					
				01	Unnamed Tributary *					
				02	Unnamed Tributary *					
			07		Unnamed Tributary *					
			08		Unnamed Tributary *					
			09		Unnamed Tributary *					
			10		Unnamed Tributary *					
	1		11		Unnamed Tributary *					
			12		Unnamed Tributary *					
			13		Church Creek * #					
		04			Unnamed Tributary *					
		05			Unnamed Tributary *					
		06			Unnamed Tributary *	-				

^{*} All or part tidally influenced.

/	MAJOS HUMBES	PRIME ATTER	1	STREAM CO	STREAM NAME	LATITUDE	LONGITUDE	ST	REAM LES	low = 5 cfs) FROM
PEP	MANO	PRIM. P.	SECO	TERTIARY FOUNT		(" ")	(° ' ")	UP	DOWN	
03	05	07			Leadenwah Creek *					
			01		Unnamed Tributary *					
				01	Unnamed Tributary *					
				02	Unnamed Tributary *					
			02		Unnamed Tributary *					
		- 1	03		Unnamed Tributary *					
			04		Unnamed Tributary *					
		08			Westbank Creek * #					
			01		Unnamed Tributary *					
			02		Unnamed Tributary *					
			03		Unnamed Tributary *					1
		09			Westbank Creek * #					
		10			Steamboat Creek *					
			01		Unnamed Tributary *					
				01	Unnamed Tributary *					
			02		Long Creek *	Mi ii				
			03		Russell Creek *					

^{*} All or part tidally influenced.

	1	$\sqrt{}$	7	STREAM COD	7 /	HEAI	DWATER LOC	ATION	(Mean	Flow = 5 cfs)
/.	MAJOS HUMBES	PRILL RIVER	SECOL	TERTIARY FOURT	STREAM NAME	LATITUDE	LONGITUDE		REAM LES	FROM
PED	MA	PP/W P.	SEC	1 P. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	15/	(* ' ")	(")	UP	DOWN	
03	05	10	03	01	Unnamed Tributary *					
				02	Unnamed Tributary *					
			04		Unnamed Tributary *					
			05		Unnamed Tributary *					
			06		Unnamed Tributary *					
			07		Unnamed Tributary *					
			08		Unnamed Tributary *					
		- 1	09		Sand Creek *					
				01	Unnamed Tributary *					
			10		Whooping Island Creek *					
- 1				01	Unnamed Tributary *					
		- 1		02	Unnamed Tributary *					
				03	North Creek * #					
		-11			Dawho River * #					
			01		Unnamed Tributary *					
			02		Intracoastal Waterway* #					

 $[\]star$ All or part tidally influenced.

	1	$\int_{-}^{}$,	STREAM COD	E /	HEAD	WATER LOC	ATION	(Mean Fi	low = 5 cfs)
/	MALOS NUMBES	PRIME AINER	SECOM	TEAT LARY FOURT	STREAM NAME	LATITUDE	LONGITUDE		REAM LES	FROM
PED	MAU	PPIN P.	SEC	TER!	1/2/	(" ")	(° ' ")	UP	DOWN	
03	05	11	03		Intracoastal Waterway* #					
			04		Intracoastal Waterway* #					
			05		Intracoastal Waterway* #					
			06		Intracoastal Waterway* #					
			07		Unnamed Tributary *					
			08		Intracoastal Waterway* #					
			09		North Creek * #					
			10		Unnamed Tributary *					
			11		Fishing Creek * #					
			12		Unnamed Tributary * #					
		- 1	13		Unnamed Tributary * #					
				01	Unnamed Tributary *				1	
		12			Wadmalaw River *					
			01		Tom Point Creek *					
				01	Unnamed Tributary *					
				02	Unnamed Tributary *		P 4			

^{*} All or part tidally influenced.

/	MAJOC MUNBEO	PRIME AVIET	1	TEAT TOWN	7	7	STREAM NAME		LONGITUDE	STI	REAM LES	Flow = 5 cfs) FROM
PEP	MAN	PRIM	SECO	TERY	100	11/2	5/	(" ")	(° ' ")	UP	DOWN	
03	05	12	01	03			Unnamed Tributary *					
				04			Unnamed Tributary *					
				05			Unnamed Tributary *					
			02	06			Unnamed Tributary * Toogoodoo Creek *					
			02	01			Unnamed Tributary *					
				02			Unnamed Tributary *					
				03			Lower Toogoodoo Creek *					
					01		Swinton Creek *					
						01	Unnamed Tributary *					
					02		Unnamed Tributary *					
	- 1			04			Unnamed Tributary *					
			03				Unnamed Tributary * Oyster House Creek *					
			04	01			Unnamed Tributary *					
	- 1			02			Unnamed Tributary *					

^{*} All or part tidally influenced.

	1	/	,	STREAM CO	DE	HEAI	OWATER LOC	ATION	(Mean F1	ow = 5 cfs)
/	MAJOS NUMBED	PRIME RIVER	SECOM	TERTIARY FOUND	STREAM NAME	LATITUDE	LONGITUDE		REAM LES	FROM
PED	MAL	PRIM. P.	SEC	15 E.	2/2/	(" ")	(" ' ")	UP	DOWN	
3	05	12	05		Unnamed Tributary *					
			06		Stono River * #					
				01	New Cut * #					
			07		Church Creek * #					
				01	New Cut * #					
				02	Unnamed Tributary *					
	06				Kiawah River * (Captain Sams Inlet)					
		01			Captain Sams Creek * (Captain Sams Inlet)					
			01		Unnamed Tributary *					
		02			Unnamed Tributary *					
			01		Unnamed Tributary * #					
				01	Unnamed Tributary *					
		03			Unnamed Tributary * #					
		04			Unnamed Tributary *					
		05			Unnamed Tributary *					
		06			Haulover Creek *					

^{*} All or part tidally influenced.

	1	/		STREAM CO	DDE	HEAL	OWATER LOC	ATION	(Mean F)	low = 5 cfs)
/	MAJOS NUMBES	PRINCE	TOWN	TERTINGY FOUNDARY	STREAM NAME	LATITUDE	LONGITUDE		REAM LES	FROM
PED	MAL	PRIM P.	SEC	12/2	\$\\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	(" ")	(" ")	UP	DOWN	
)3	06	06	01		Unnamed Tributary *					
		07			Unnamed Tributary *					
			01		Unnamed Tributary *				1 1	
			02		Unnamed Tributary *					
			03		Unnamed Tributary *					
			04		Abbapoola Creek * #				1 1	
				01	Unnamed Tributary *					
				02	Unnamed Tributary *					
		08			Unnamed Tributary *					
	1	09			Unnamed Tributary *					
		10			Bryans Creek *					
			01		Unnamed Tributary *					
		11	17		Unnamed Tributary *					
			01		Unnamed Tributary *					
		12			Unnamed Tributary *					
		13			Unnamed Tributary *					
		14			Unnamed Tributary *					

^{*} All or part tidally influenced.

[#] Dual code in Report 03.

	1	/ ,	STREAM C	ODE	HEAL	DWATER LOC	ATION	(Mean F1	ow = 5 cfs)
/	MAJOO NUMBED	PIVER !	SECONDARY TERTIARY	STREAM NAME	LATITUDE	LONGITUDE		REAM LES	FROM
PED	MAN	PRIM. P.			(" ")	(" ")	UP	DOWN	
3	06	15		Unnamed Tributary *					
		16		Chaplin Creek *					
			01	Unnamed Tributary * #					
		17		Unnamed Tributary *					
			01	Unnamed Tributary * #					
	07			Stono River * # (Stono Inlet)					
		01		Unnamed Tributary *					
		02		Bass Creek *					
			01	Cinder Creek *					
		- 1	02	Unnamed Tributary *					
		03		Kiawah River # #					
		04	1.4	Alligator Creek * #					
			01	Unnamed Tributary *					
		05		Green Creek *					
			01	King Flats Creek * #					
			02	Robbins Creek * #		1 1			

^{*} All or part tidally influenced.

	1	7	STREAM COD	77/	HEAL	OWATER LOC	ATION	(Mean F	low = 5 cfs)
/	MAJOR NUMBER	PIVED !	SECONDARY TERTIARY	STREAM NAME	LATITUDE	LONGITUDE		REAM LES	FROM
12	MAN	PRIME	18 15 B	15/	(" ")	(")	UP	DOWN	
03	07	06		Unnamed Tributary *					
		07		Abbapoola Creek * #					
			01	Unnamed Tributary *					
			02	Unnamed Tributary *					
			03	Unnamed Tributary *					
		08		Holland Island Creek *					
		09		Hut Creek *					
			01	Unnamed Tributary *					
		10		Unnamed Tributary *					
		11		Unnamed Tributary *					
		12		Unnamed Tributary *					
		13		Unnamed Tributary *					
		14		Unnamed Tributary *					
			01	James Island Creek * #					
		15		Pennys Creek * #					
- 1		- 1	01	Unnamed Tributary *					

^{*} All or part tidally influenced.

/.	MALOS HUMBES	PRIME RIVER	SECONDARY TERTIARY	STREAM NAME	LATITUDE	LONGITUDE		REAM LES	FROM
PED	MALLO	PRIM. P.	1 F. 1 S.	\$ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(" ")	(° ' ")	UP	DOWN	
03	07	16		Elliott Cut * #					
		17		Wappoo Creek *					
			01	Sandy Bay *					
		18		Unnamed Tributary *	Y				
		19		Unnamed Tributary *					
-)		- 1	01	Unnamed Tributary *					
		20		Unnamed Tributary *					
		21		Long Branch Creek *					
			01	Church Creek # #					
			02	Macbeth Creek * #					
		22		Unnamed Tributary *					
			01	Unnamed Tributary *					
		23		Unnamed Tributary *					
		24		Unnamed Tributary *					
		25		Unnamed Tributary *					
			01	Unnamed Tributary *				1 1	

^{*} All or part tidally influenced.

	1	/	,	STRE	M CODE		HEA	DWATER LOC	ATION	(Mean F	low = 5 cfs)
/	MAUDO NUMBED	PRIM. PIVER	14/	TEAT TEAT	FOWETH	STREAM NAME	LATITUDE	LONGITUDE		REAM LES	FROM
PED	MAN	PRIM.	SEC	12	100	E/	(" ")	(")	UP	DOWN	
03	07	26				Unnamed Tributary *					
			01			Unnamed Tributary *					
		27				Unnamed Tributary * #					
			01			Unnamed Tributary * #					
		28				Unnamed Tributary * #					
		29				Unnamed Tributary * #					
		30				Rantowles Creek *					
			01			Unnamed Tributary *					
		- 4	02			Wallace River *					
- 1				01		Unnamed Tributary *					
- 4				02		Unnamed Tributary *					
					01	Unnamed Tributary (Caw Caw Swamp) *					
				03		Middle Branch *					
			03			Unnamed Tributary *					
			04			Unnamed Tributary *					
			05		1	Unnamed Tributary *	7				

^{*} All or part tidally influenced.

	1	/_	,	STREAM CO	DE	HEAI	DWATER LOC	ATION	(Mean Fl	ow = 5 cfs)
/.	MAJOC NUMBER	PRIME PINER	SECOM	TERTIARY FOUND	STREAM NAME		LONGITUDE		REAM LES	FROM
PED	MAN	PRIMI	SEC	12/2		(" ")	(" ")	UP	DOWN	
03	07	30	06		Unnamed Tributary *				110	
			07		Unnamed Tributary (Bear Swamp) *					
				01	Unnamed Tributary *					
			08		Back Water *					
		- 1		01	Unnamed Tributary *					
- 1		- 1		02	Unnamed Tributary *					
- 1			09		Unnamed Tributary *					
- 1				01	Unnamed Tributary *					
				02	Unnamed Tributary *					
			10		Unnamed Tributary *					
		31			Log Bridge Creek *	1			1 1	
			01		Mellichamp Branch *					
		32			Unnamed Tributary *					
		33			New Cut * #					
	08	- 1			Folly River * # -		1			

^{*} All or part tidally influenced.

	1	$\sqrt{}$,	STREAM COD	111	HEAL	DWATER LOC	ATION	(Mean F	low = 5 cfs)
/.	MAJOC NUMBER	PRIM. RIVER	SECOM	TERTIARY FOURT	STREAM NAME	LATITUDE	LONGITUDE		REAM LES	FROM
PED	MAGE	PRIM. R.	SEC	15.00	15/	(" ")	(" ")	UP	DOWN	
03	08	01			Cole Creek *		-			
			01		Unnamed Tributary *					
		02			Robbins Creek * #					
			01		Cutoff Reach * #					
			02		Unnamed Tributary *					
		03		1 1	Folly Creek *					
			01		Oak Island Creek * #					
			02	01	Cutoff Reach * #					
		- 1	03	01	Unnamed Tributary * Unnamed Tributary *					
			04		King Flats Creek * #					
1			05		Unnamed Tributary *					
			06		Oak Island Creek * #					
			07		Unnamed Tributary *					
			08		Unnamed Tributary *					
				01	First Sister Creek * #		1 1			

st All or part tidally influenced.

	1	/	,	STREAM CODE		HEAL	WATER LOC	ATION	(Mean F	low = 5 cfs)
/	MAJOG NUMBED	RIVER	SECOM	TERTIARY FOURTH	STREAM NAME	LATITUDE	LONGITUDE		REAM LES	FROM
PEP	MAN	PRIM. P.	SEC	1 TE 1 TE 1	E	(" ")	(° ' '')	UP	DOWN	
3	08	03	08	02	Second Sister Creek * #					
			09		Unnamed Tributary *					
			10		Unnamed Tributary *					
			11		Sucessionville Creek* #					
			12		Unnamed Tributary *					
-			13		Unnamed Tributary *					
		04			Unnamed Tributary *					
		05			Unnamed Tributary *					
		06			Unnamed Tributary *					
1		07			Unnamed Tributary *					
	09				Lighthouse Creek * (Lighthouse Inlet)					
		01			Block Island (Creek) *					
			01		Unnamed Tributary *					
			02		Unnamed Tributary *					
			03		Unnamed Tributary *					
		02			Rat Island Creek *					

^{*} All or part tidally influenced.

[#] Dual code in Report 03.

	1	/	,	STREAM CO	7 7 /	HEAI	DWATER LOC	ATION	(Mean F1	ow = 5 cfs)
/.	MAJOS HUMBES	PRIM RIVER	SECOMPY	TERTINGY FOUNT	STREAM NAME	LATITUDE	LONGITUDE		REAM LES	FROM
PED	MACI	14	SEC	17.00	2/2/	(" ")	(" ")	UP	DOWN	
03	09	02	01		Unnamed Tributary *					
				01	Unnamed Tributary *					
				02	Unnamed Tributary *		1			
		- 1	02		Unnamed Tributary *					
			03		Second Sister Creek * #					
			04		First Sister Creek * #					
		03		100	Unnamed Tributary * #					
		04			Unnamed Tributary *					
		05			Second Sister Creek * #					
		06			First Sister Creek * #					
		07			Ft. Johnson Creek *					
		08			Folly Creek * #					
		09			Unnamed Tributary *					
		10			Secessionville Creek* #					
		11			Seaside Creek *					
- 1		12	- 1		Unnamed Tributary *					

^{*} All or part tidally influenced.

/	MAJOO NUMBED	AINER !	7	STREAM C	12/2/	LATITUDE	LONGITUDE	ST	REAM LES	low = 5 cfs)
TEP.	MANO	PPIN. P.	SEC	TERTIARY		(" ")	(" ")	UP	DOWN	
	10				Bass Creek *					
		01			Unnamed Tributary *					
	11	-4			Schooner Creek *					
-1		01			Unnamed Tributary * #					
		02			Unnamed Tributary *	1				
	12				Parrot Point Creek *				1 1	
		01			Unnamed Tributary *				1 1	
		02			Unnamed Tributary * #					
			01		Unnamed Tributary *					
	13				Kushiwah Creek *					
- 1	14				Ashley River *					
		01			Mill Creek *					
-		02			James Island Creek * #					
			01		Simpson Creek *					
				01	Unnamed Tributary * #					
				02	Wolfpit Run *					

^{*} All or part tidally influenced.

	1	\int	,	STREAM COD	E	HEAL	DWATER LOC	ATION	(Mean F1	ow = 5 cfs)
/.	MAJOC NUMBER	RIVER	SECON	TERTIARY FOURT	STREAM NAME	LATITUDE	LONGITUDE		REAM LES	FROM
REP	MAN	PRIM. R.	SEC	TER!		(" ")	(" ")	UP	DOWN	
03	14	02	02		Unnamed Tributary *					
				01	Unnamed Tributary *					
		- 1	03		Unnamed Tributary * #					
			04		Unnamed Tributary *					
	1	03			Dill Creek *					
			01		Unnamed Tributary *					
		04			Wappoo Creek * #					
			01		Elliott Cut * #					
			02		Unnamed Tributary *					
		05			Oldtown Creek *					
			01		Orange Grove Creek *					
		06			Duck Island Channel * #					
		07			Unnamed Tributary *					
		08			Duck Island Channel * #					
		09			Brickyard Creek *					
		10		1 1	Unnamed Tributary *	15				

^{*} All or part tidally influenced.

	1	/	STREAM C		HEAI	OWATER LOC	ATION	(Mean F	low = 5 cfs)
/	MAJOS HUMBED	PRIM. PIVER	SECONOARY TERTIARY	STREAM NAME		LONGITUDE		REAM LES	FROM
PED	MAC	PRIME	13/2/		(" ")	(" ")	UP	DOWN	
03	14	11		Bulls Creek *					
		12		Church Creek *					
			01	Unnamed Tributary *					
			02	Unnamed Tributary *					
		13		Keivling Creek *					
		14		Macbeth Creek *					
		15		Unnamed Tributary *					
		16		Popperdam Creek *					
			01	Unnamed Tributary *					
		- 4	02	Unnamed Tributary *					
		17		Sawpit Creek *					
		18		Unnamed Tributary *					
		19	74 T	Unnamed Tributary *					
		20		Olive Branch *					
		21		Coosaw Creek *					
		22		Unnamed Tributary *					
		23	-111	Unnamed Tributary *					

^{*} All or part tidally influenced.

	1	_	1	STREAM CO		HEAI	OWATER LOC	ATION	(Mean F	low = 5 cfs)
/	MAJOC NUMBED	PRIME PIVER	SECOM	TERTIARY FOUN	STREAM NAME	LATITUDE	LONGITUDE		REAM LES	FROM
PED	MAN	PRIME RI	SEG	12/2		(" ")	(" ")	UP	DOWN	
03	14	24			Unnamed Tributary *					
		25			Unnamed Tributary *					
		26			Unnamed Tributary *					
		27			Eagle Creek *					
			01		Chandler Bridge Br *					
			02		Spencer Branch *					
			03		Federwitz Branch *					
		28			Dorchester Creek *					
			01		Unnamed Tributary *					
			02		Unnamed Tributary *					
			03		Sawmill Branch *					
				01	Unnamed Tributary *					
				02	Unnamed Tributary *					
				03	Unnamed Tributary *					
		29			Unnamed Tributary *					
		30			Unnamed Tributary *					
		31			Unnamed Tributary *					

^{*} All or part tidally influenced.

	1	$\int_{-\tau}^{\tau}$	STREAM	CODE	HE	AD	WATER	LOC	ATION	(Mea	n Flow = 5 cfs)
/.	MAJOS HUMBED	PRIME RIVER	SECONDARY TERTIARY	STREAM NAME	LATITUDE	- 1	LONGIT	JDE	10.00	REAM LES	FROM
PED	MAL	PRIM.	18 / 2/	The state of the s	(" ")	(" '	")	UP	DOWN	
03	14	32		Unnamed Tributary *							
		33		Hurricane Branch #		1					
		34		Rumphs Hill Creek	33 01 15		80 16	10	2.1		Ashley River
		35		Captains Creek	33 03 45		80 20	50	2.0		S.C. 27 Highway Bridge
		36		Stanley Branch	33 04 25	1	80 14	35			Confluence-Kelly Br
		37		Cypress Swamp							
			01	Sandy Run	33 07 15		80 10	25	1.7		Ashley River (Cypres Swamp)
			02	Partridge Creek	33 09 20		80 12	55			Confluence-Rudd & Mill Branches
		38		Wassamassaw Swamp							
			01	Caton Creek	33 10 55		80 11	00	0.5		Calamus Pond Road
			02	Mill Branch	33 10 55		80 07	35	2.4		Wassamassaw Swamp
			03	Black Creek	33 13 45		80 10	45	2.7		Big Run
		- 1	04	Big Run	33 13 10		80 08	25	1.9		Black Creek

^{*} All or part tidally influenced.

APPENDIX B SUMMARY OF 10 TO 1,000 ACRE LAKES

This appendix is a compilation of lakes from 10 to 1,000 acres which are contained in the Edisto River report area.

This inventory was compiled from the following sources:

- Inventory of Lakes in South Carolina Ten Acres or More in Surface Area.
- USGS Quadrangle Maps.

The USGS quadrangle maps were used to locate and to detect lakes that were not listed in the other sources. Actual surface area and gross storage information is supplied where available. The lakes were coded by major stream basin in accordance with other procedures developed for identifying streams. The map data from Source I above generally does not permit detailed location of the small lakes. Thus, lakes are coded by basin only as far as the secondary order.

APPENDIX B SUMMARY OF 10 TO 1,000 ACRE LAKES

REPORT	MAJOO NUMBER	PRIM. PIVER	SECONDARY TERTIARY	LAKE NAME OR OWNER	SURFACE AREA (acres)	GROSS STORAGE (acre-ft)	LOCATION BY COUNTY (SOUTH CAROLINA)
03	14			N. Lamar	100	400	Charleston
03	14			Magnolia Gardens	100	400	Charleston
03	14			Magnolia Gardens	10	40	Charleston
03	14	16		George Fabian	16	96	Charleston
03	14			Etiwan Fertilizer Co.	22	110	Charleston
03	14			Banks Construction Co.	24	360	Charleston
03	14			W. O. Hanahan	50	100	Charleston
03	14	24		Middleton Gardens	30	360	Charleston
03	14	12		McLeod Sisters	25	50	Charleston
03	14	12		W. O. Hanahan	15	90	Charleston
03	14	02		Lawton Bluff	22	110	Charleston
03	01	03	02	Greenway Plantation	44	176	Charleston
03	09	11		T. C. Long	14.	70	Charleston
03	06	11		Mrs. C. C. Royal	17	51	Charleston
03	07	02	02	Mrs. C. C. Royal	21	63	Charleston
03	07	02	01	Mrs. C. C. Royal	28	84	Charleston

APPENDIX B SUMMARY OF 10 TO 1,000 ACRE LAKES

	/		STREAM	CODE			
PEP	MALOS NUMBEO	PRIME PIVER	SECONDARY TERTIAS	LAKE NAME OR OWNER	SURFACE AREA (acres)	GROSS STORAGE (acre-ft)	LOCATION BY COUNTY (SOUTH CAROLINA)
03	06	16		Bob Berry	120	480	Charleston
03	07	02	02	Mrs. C. C. Royal	32	96	Charleston
03	06	03		J. S. Limehouse	12	48	Charleston
03	06	07		J. S. Limehouse	15	60	Charleston
03	06	07		J. S. Limehouse	12	48	Charleston
03	06	07		J. S. Limehouse	56	280	Charleston
03	07	15	01	N. Thumbleston	12	96	Charleston
03	05	03		Unnamed Lake			Charleston
03	05	12	07	John F. Sosnowski	14	40	Charleston
03	05	12		Unnamed Lake			Charleston
03	05	12		Hugh Dawson & Harold Igoe	25	100	Charleston
03	05	12	02	Mac Gibson & Arthur Smoak	125	1,000	Charleston
03	05	07	04	J. Walpole	12	60	Charleston
03	07	04		Unnamed Lake			Charleston
03	07	30	01	W. W. McConnell	15	45	Charleston
03	07	30	01	McLeod Sisters	75	300	Charleston
03	07	31		Robert Chaplin	14	420	Charleston
03	07	31	01	Malcolm Haven	50	300	Charleston

APPENDIX B SUMMARY OF 10 TO 1,000 ACRE LAKES

REPO	MALOS NUMBER	PRIM. RIVER	STREAM SECONDARY	1/2/2/	SURFACE AREA (acres)	GROSS STORAGE (acre-ft)	LOCATION BY COUNTY (SOUTH CAROLINA)
03	07	31	01	McLeod	15	30	Charleston
13	05	07	03	L. E. Glenn	50	100	Charleston
)3	07	03		Unnamed Lake			Charleston
13	09	11		Unnamed Lake			Charleston
3	05	12	02	Dr. W. D. McDowell	10	70	Charleston
13	01	01	01	Unnamed Lake	18	36	Charleston
13	01	03	03	Raymond Dion	25	50	Charleston
03	01	13	06	Maybank Brothers	400	800	Charleston
13	01	24		State Forestry Commission	90	180	Charleston
03	01	25		State Forestry Commission	110	220	Charleston
03	01			Hugh Lane	100	200	Charleston
03	01	08		Billy Baldwin	150	240	Colleton
03	01			C. D. C. Adams	12	25	Colleton
03	01			S. C. Electric & Gas	15	24	Colleton
03	14	21		Stratford Capers	10	50	Dorchester
03	14	21		Unnamed Lake (Reservoir)			Dorchester
03	14	28		Wando Inc.	18	90	Dorchester

APPENDIX B SUMMARY OF 10 TO 1,000 ACRE LAKES

PED.	MALIO MUNBEO	PRIM RIVER	/	LAKE NAME OR OWNER	SURFACE AREA (acres)	GROSS STORAGE (acre-ft)	LOCATION BY COUNTY (SOUTH CAROLINA)
03	14			Becker Sand & Gravel Co.	70	300	Dorchester
3	14			Lang Strobel	10	50	Dorchester
13	01			Vesta Rumph	15	75	Dorchester
13	01			West Virginia Pulp & Paper Co.	20	120	Dorchester
13	01			West Virginia Pulp & Paper Co.	20	120	Dorchester
3	01		1	West Virginia Pulp & Paper Co.	20	120	Dorchester
3	01	32	03	Southern Railway	100	320	Dorchester
3	01	32	09	Giant Portland Cement Co.	100	1,000	Dorchester
3	01	32		MacDougall State Correctional	20	200	Berkeley
3	01	32		Lake Merkel	20	160	Berkeley
3	01	32	04	Superior Store	60	4,800	Berkeley
13	01	32	04	Harrey McCormick	12	60	Orangeburg
13	01	32	06	Unnamed Lake	13	65	Orangeburg
13	01	32	06	Fannie B. Shuler	12	50	Orangeburg
13	01	32		Whetsell Brothers	60	300	Orangeburg
13	01	32		Unnamed Lake	30	150	Orangeburg

APPENDIX B SUMMARY OF 10 TO 1,000 ACRE LAKES

PEPA	MAJOS NUMBEO	PRIM. RIVER	SECONDARY TERTIADO	LAKE NAME OR OWNER	SURFACE AREA (acres)	GROSS STORAGE (acre-ft)	LOCATION BY COUNTY (SOUTH CAROLINA)
3	01	32		Unnamed Lake	16	80	Orangeburg
3	01	32	08	Brunson Pond	25	100	Orangeburg
3	01	32	08	Wheathers Pond	10	40	Orangeburg
3	01	32		Alma Zimmerman	12	60	Orangeburg
3	01	32		Unnamed Lake	15	75	Orangeburg
3	01	32	11	Early Pond	15	50	Orangeburg
3	01	32	11	Owens Pond	25	100	Orangeburg
3	01	32	13	J. Herman Gramling	50	240	Orangeburg
3	01	32		Hansee Shuler	12	50	Orangeburg
3	01	32	13	Unnamed Lake	14	56	Orangeburg
3	01	37	03	Country Hatchery	40	320	Orangeburg
3	01	37		Nelda P. Livingston	11	53	Orangeburg
3	01	37		U. S. Fish Hatchery Pond	50	140	Orangeburg
3	01	37		Unnamed Lake	13	83	Orangeburg
3	01	37		W. W. Dibble	17	61	Orangeburg
3	01	37		Harry Davis	15	50	Orangeburg
3	01	37		Unnamed Lake	21	218	Orangeburg

APPENDIX B SUMMARY OF 10 TO 1,000 ACRE LAKES

PEPA	MAJOS NUMBEO	PRIM. RIVER	SECONDARY TERTIARY	LAKE NAME OR OWNER	SURFACE AREA (acres)	GROSS STORAGE (acre-ft)	LOCATION BY COUNTY (SOUTH CAROLINA)
)3	01	37	04	Unnamed Lake	11	40	Orangeburg
13	01	37	04	T. E. Wannamaker	100	320	Orangeburg
3	01	37	04	L. P. O'Cain	13	52	Orangeburg
13	01	37	04	Arcadia Farms	100	1,400	Orangeburg
3	01	37	04	Unnamed Lake	22	106	Orangeburg
13	01	37	04	Unnamed Lake	20	88	Orangeburg
3	01	37		Smoaks Pond	20	96	Orangeburg
3	01	37	05	Moss Pond	40	160	Orangeburg
13	01	37	06	Millwood Pond	20	96	Orangeburg
13	01	37	06	Annie L. Smith	14	56	Orangeburg
13	01	37		Ezel Hutto	14	67	Orangeburg
13	01	37		Annie L. Smith	13	62	Orangeburg
13	01	37		T. E. Wannamaker	10	48	Orangeburg
3	01	37	08	Cutter Mill Pond	10	48	Orangeburg
13	01	37	08	Eva E. Strickland	15	72	Orangeburg
03	01	37	05	H. G. Fralick	15	25	Orangeburg
3	01	37	10	Hutto Mill Pond	16	77	Orangeburg

APPENDIX B SUMMARY OF 10 TO 1,000 ACRE LAKES

PED /	MA JOST MUMBED	PRIME RIVER	STREAM AND SECONDARY SECONDARY	1/2/2/	SURFACE AREA (acres)	GROSS STORAGE (acre-ft)	LOCATION BY COUNTY (SOUTH CAROLINA)
03	01	37	10	Conner Pond	12	58	Orangeburg
03	01	37	10	H. L. Chaplin	12	58	Orangeburg
)3	01	37	10	Livington Pond			Orangeburg
03	01	37	10	Knots Pond			Orangeburg
)3	01	37	07	Unnamed Lake	4.0		Orangeburg
)3	01	37	11	Harleys Mill Pond	18	86	Orangeburg
)3	01	37	11	Cooks Pond			Orangeburg
)3	01	37	11	Jones Pond		44	Orangeburg
)3	01	37		Unnamed Lake	16	104	Orangeburg
13	01	37	09	Unnamed Lake	12	40	Orangeburg
)3	01	37	09	Etheredge Mill Pond	100	600	Orangeburg
03	01	37	09	Layseth Mill Pond	13	62	Orangeburg
13	01	37	08	Amaker Pond		2	Orangeburg
03	01	37	09	Midway Millpond		44	Orangeburg
03	01	37	12	Friday's Pond	16	83	Orangeburg
13	01	37	13	Culler Pond	16	90	Orangeburg
03	01	38	08	Glen W. Cope, Estate	30	168	Orangeburg

APPENDIX B SUMMARY OF 10 TO 1,000 ACRE LAKES

PEP	MALOS NUMBES	PRIME RIVER	SECONDARY TERTIARY	LAKE NAME OR OWNER	SURFACE AREA (acres)	GROSS STORAGE (acre-ft)	LOCATION BY COUNTY (SOUTH CAROLINA)
3	01	38	08	Carolyn W. Cope	12	40	Orangeburg
3	01	38	08	Fogle Pond	25	120	Orangeburg
3	01	38	08	Unnamed Lake	13	94	Orangeburg
3	01	38	03	Unnamed Lake	18	86	Orangeburg
3	01	38	03	John A. Fogle	13	94	Orangeburg
3	01	38	03	John Fogle Pond	20	96	Orangeburg
3	01	38	03	Unnamed Lake	10	48	Orangeburg
3	01	38		M. A. Shecut	18	58	Orangeburg
3	01	38	07	B. B. Willoams	10	50	Orangeburg
3	01	38	07	J. W. Williamson	10	40	Orangeburg
3	01	38	11	Dr. Ben Cole	16	77	Orangeburg
3	01	38	11	Unnamed Lake	12	58	Orangeburg
3	01	38	10	Priesters Mill Pond	25	140	Orangeburg
3	01	38	14	Dean Swamp Pond	100	480	Orangeburg
3	01	32	14	T. C. Moss	35	224	Calhoun
3	01	32	11	J. Moss (Moss Lake)	30	168	Calhoun
3	01	32	11	G. Rast	25	120	Calhoun

APPENDIX B SUMMARY OF 10 TO 1,000 ACRE LAKES

PEPA	MAJOS NUMBEO	PRIME RIVER	SECONDARY TERTIARY	LAKE NAME OR OWNER	SURFACE AREA (acres)	GROSS STORAGE (acre-ft)	LOCATION BY COUNTY (SOUTH CAROLINA)
3	01	32		George Bull (Bull Pond)	20	112	Calhoun
3	01	37	04	Beckham	10	48	Calhoun
3	01	37	04	Gressette	20	112	Calhoun
3	01	37	04	Staley	25	160	Calhoun
3	01	37	04	Way (Raymond Pond)	28	179	Calhoun
3	01	37	04	Suttcliffe	18	86	Calhoun
3	01	37	04	Suttcliffe	. 35	196	Calhoun
3	01	37	09	L. Rast	12	67	Calhoun
3	01	37	09	Burton Gunter	50	180	Lexington
3	01	37	09	Edward Sharpe	22	88	Lexington
3	01	37	09	Edward Sharpe	12	36	Lexington
3	01	37	09	Redmond Pond			Lexington
3	01	37	09	Wilson Shealy (Brookers Mill Pond)	35	182	Lexington
3	01	37	09	Ralph Wessinger (Witt Pond)	10	56	Lexington
3	01	03	09	Marie Hydrick	13	67	Lexington
3	01	03	09	Leto B. Fallaw	12	58	Lexington

APPENDIX B SUMMARY OF 10 TO 1,000 ACRE LAKES

REPA	MALOS NUMBED	PRIME PIVER	SECONDARY SECONDARY	1/2/2/	SURFACE AREA (acres)	GROSS STORAGE (acre-ft)	LOCATION BY COUNTY (SOUTH CAROLINA)
03	01	37	14	Dan Poole (Pooles Upper Millpond)	20	80	Lexington
03	01	37	14	Pooles Upper Millpond	16	65	Lexington
13	01	37	14	Lila Bachman	10	52	Lexington
13	01	37	14	Ruth Whisenhunt (Brooker Pond)	12	40	Lexington
13	01	37	16	James F. Rast	40	144	Lexington
)3	01	37	16	Fort Pond	70	280	Lexington
3	01	37	14	Poole Millpond			Lexington
3	01	37	17	John Gunter	150	600	Lexington
)3	01	37	17	LaBrodie Mathias (Clarks Mill Pond)	50	200	Lexington
)3	01	37	17	Huffman Burnt Millpond	44		Lexington
13	01	37	17	Frank Harmon	32	154	Lexington
13	01	37	17	Johnson Pond	18	100	Lexington
13	01	37	17	LaBrodie Mathias (Bouknight Pond)	13	62	Lexington
03	01	37	17	U. H. Collum Est.*(Collum Pond)	10	56	Lexington
03	01	37	17	Hallman Millpond			Lexington
03	01	37	17	B. F. Paxton (Paxton Millpond)	50	200	Lexington

APPENDIX B SUMMARY OF 10 TO 1,000 ACRE LAKES

PEPO	MAJOS NUMBES	PRIME PIVER	SECONDARY TERTIARY	LAKE NAME OR OWNER	SURFACE AREA (acres)	GROSS STORAGE (acre-ft)	LOCATION BY COUNTY (SOUTH CAROLINA)
03	01	37	17	Old Barr Pond	24	134	Lexington
)3	01	37	17	Crouts Pond	12	87	Lexington
13	01	37	17	M. H. Oswald	11	57	Lexington
13	01	37	17	Arthur Gunter (Taylor Pond)	12	67	Lexington
3	01	37	17	Jones Pond	1,441		Lexington
3	01	37		Halls Pond (Steedman Pond)	34	184	Lexington
3	01	37		01d Rowe Pond	. 12	58	Lexington
3	01	37	24	L. R. Cone	12	58	Lexington
3	01	37	23	N. C. Ridgell	43	275	Lexington
13	01	37	23	Kirklands Pond	20	80	Lexington
3	01	37	23	Martin Rawl Estate	10	48	Lexington
3	01	37	23	Abells Pond (Abells Millpond)	15	84	Lexington
3	01	37	23	Ansel C. Smith	13	73	Lexington
3	01	37	23	Brodie Millpond			Lexington
13	01	37	23	Shealy Pond	15-4	44	Lexington
13	01	37	24	O. E. Hartley	10	56	Lexington
13	01	37	24	Clarence Collum	12	67	Lexington

APPENDIX B SUMMARY OF 10 TO 1,000 ACRE LAKES

PED /	MALON TOWNERS	PRIM RIVER	STREAM SECONDARY	1/2/2/	SURFACE AREA (acres)	GROSS STORAGE (acre-ft)	LOCATION BY COUNTY (SOUTH CAROLINA)
13	01	37	24	James H. Davis	50	300	Lexington
3	01	37	24	Town of Batesburg (Batesburg Reservoir)	16	77	Lexington
3	01	37	24	Joe Shealy	10	64	Lexington
13	01	37	15	Cornelia Corbert	50	160	Aiken
13	01	37	15	Gus Culbertson	35	154	Aiken
13	01	37	15	Whetstone Estate	12	38	Aiken
13	01	37	15	Onie W. Boles	42	250	Aiken
)3	01	37	15	Harry Hallman	15	72	Aiken
13	01	37	18	Cooper Realty	200	2,000	Aiken
13	01	37	18	Robert Corbett	33	238	Aiken
03	01	37	18	P. D. Collum (Collums Millpond)	15	60	Aiken
03	01	37	18	Clinton Brown Estate	20	120	Aîken
03	01	37		O'Neal Miller	21	134	Aiken
03	01	37		Chum Gunter	23	166	Aiken
03	01	37	21	Chum Gunter	22	176	Aiken
03	01	37	21	Unnamed Lake	30	120	Aiken

APPENDIX B SUMMARY OF 10 TO 1,000 ACRE LAKES

PED	MALON TOWNERS	PRIM RIVER	STREAM A SECONDARY	1/2/2/	SURFACE AREA (acres)	GROSS STORAGE (acre-ft)	LOCATION BY COUNTY (SOUTH CAROLINA)
13	01	37	21	C. M. McKeown	35	294	Aiken
3	01	37	20	Rawls Millpond			Aiken
3	01	37	22	Jones Pond	50	350	Aiken
3	01	37	22	Dr. Ronald Dew	46	331	Aiken
3	01	37	24	Plato Kneece	10	28	Aiken
3	01	38	11	Alonzo Bailey	16	77	Aiken
3	01	38	14	Jack Weathersby	13	62	Aiken
3	01	38	14	Lois M. Holman (Miller Pond)	25	120	Aiken
3	01	38	14	Lourie Johnson (Johnsons Pond)	13	78	Aiken
3	01	38	14	A. Louie Brodie	14	78	Aiken
3	01	38	14	George Wooten	12	67	Aiken
3	01	38	14	L. B. Williams	21	101	Aiken
3	01	38	14	Perrín Garvin	18	79	Aiken
3	01	38	14	Pickens Rish (Cofer Pond)	10	68	Aiken
3	01	38	14	Johnsons Pond	100		Aiken
3	01	38	16	Webbs Pond			Aiken
3	01	38	17	Tylers Pond	50	220	Aiken
3	01	28	17	Goodyear Pond	55	220	Aiken

APPENDIX B SUMMARY OF 10 TO 1,000 ACRE LAKES

RED	MA JOST NUMBED	PRIM PIVER	STREAM SECONDARY	1/2/2/	SURFACE AREA (acres)	GROSS STORAGE (acre-ft)	LOCATION BY COUNTY (SOUTH CAROLINA)
03	01	38	16	T. B. Hallman	11	57	Aiken
03	01	38		Alken State Park	18	86	Aiken
03	01	38	18	Otis Baughman Est. (Baughman Pond)	15	90	Aiken
03	01	38	18	O. E. Garvin	15	48	Aiken
03	01	38	20	C. H. Warner (Neeses Pond or Neeses Lake)	50	240	Aiken
03	01	38	20	Garvin Mill Pond (Garvin Pond)	50	300	Aiken
03	01	38	20	G. M. Quattlebaum (Kennedy Pond)	11	57	Aiken
03	01	38	20	Harold Beard	10	56	Aiken
)3	01	38	20	Brantley Garvin	22	88	Aiken
03	01	38	20	J. Paul Swartz	25	100	Aiken
03	01	38	20	Garvin Brothers	13	47	Aiken
03	01	38	20	Camp Rawls (Cedar Pond)	21	84	Aiken
03	01	38	19	A. D. Greer (Cedar Lake)	14	62	Aiken
03	01	38	19	Mackey Scott	25	130	Aiken
03	01	38	19	Murry Johnson	10	40	Aiken
03	01	38	19	Vincent Johnson	10	40	Aiken
03	01	38	19	Unnamed Lake			Aiken

APPENDIX B SUMMARY OF 10 TO 1,000 ACRE LAKES

PEPA	MAUDE NUMBER	PRIM. RIVER	SECONDARY TERTINARY	LAKE NAME OR OWNER	SURFACE AREA (acres)	GROSS STORAGE (acre-ft)	LOCATION BY COUNTY (SOUTH CAROLINA)
)3	01	38	19	Mrs. Julia DuBose (Wildwood Lake)	10	52	Aiken
3	01	38	19	0. T. Canady	12	43	Aiken
13	01	38	19	0. T. Canady (Johnson Lake)	11	40	Aiken
3	01	38		Milton Stack	11	53	Aiken
3	01	38	21	Kirkland Pond	10	40	Aiken
3	01	38	21	Robert N. Milling (Jones Pond)	15	72	Aiken
3	01	38	21	Huttos Pond	50	240	Aiken
3	01	38		Michael Laughlin (Laughlin Pond)	25	110	Aiken
3	01	38		Michael Laughlin	29	174	Aiken
3	01	38		Ruth J. Snipes	18	108	Aiken
3	01	38		Camp Long	21	118	Aiken
3	01	38	23	Camp Gravatt	11	40	Aiken
3	01	38	23	Al Ballenger Estate	25	135	Aiken
3	01	38	23	G. W. Sawyer	42	168	Aiken
3	01	38	23	Lucy V. Kneece	10	48	Aiken

APPENDIX B SUMMARY OF 10 TO 1,000 ACRE LAKES

REPOR	MAJOS NUMBEO	PRIME RIVER	STREAM COD	LAKE NAME OR OWNER	SURFACE AREA (acres)	GROSS STORAGE (acre-ft)	LOCATION BY COUNTY (SOUTH CAROLINA)
03	01	38	23	P. W. Boatwright	11	66	Aiken
03	01	38	23	Jack Ott	13	57	Aiken
03	01	38	23	James Cato	15	54	Aiken
03	01	38	23	Charlie Collum	17	95	Aiken
03	01	38	24	H. D. Pridgeon	12	77	Aiken
03	01	38	24	H. E. Heath & H. N. Willing	21	84	Aiken
03	01	38	24	W. R. Morris	29	116	Aiken
)3	01	38		G. T. Miller	10	36	Aiken
13	01	38	25	G. T. Miller	25	110	Aiken
03	01	38	25	Barney Fulmer	12	77	Aiken
13	01	38	27	Vernon Yonce	11	62	Aiken
03	01	38	19	Reynolds Pond	125	625	Aiken
03	01	38	28	Unnamed Lake			Aiken
03	01	38	29	Cecil Yonce	18	112	Saluda
03	01	38	28	M. S. Watson	12	66	Saluda
03	01	38	29	J. E. Yonce	20	144	Edgefield

APPENDIX B SUMMARY OF 10 TO 1,000 ACRE LAKES

REPA	MAJO: NUMBEO	PRIME RIVER	STREAM SECONDARY	//2/2/	SURFACE AREA (acres)	GROSS STORAGE (acre-ft)	LOCATION BY COUNTY (SOUTH CAROLINA)
)3	01	38		J. E. Yonce	10	50	Edgefield
03	01	38		Charlie Holmes	26	208	Edgefield
03	01	38		Ralph Boatwright	11	110	Edgefield
03	01	38		L. D. Holmes	21	150	Edgefield
03	01	38		Town of Johnston	13	115	Edgefield
)3	01	38	30	W. L. (Tiny) Yonce	10	90	Edgefield
3	01	38		Town of Johnston	10	89	Edgefield
13	01	38	19	H. S. & L. F. Holmes (Holmes Pond)	14	105	Edgefield
13	01	38	19	L. D. Holmes	30	336	Edgefield
13	01	38	19	Charles Smith	15	120	Edgefield
13	01	38	19	L. E. Smith & G. C. Holmes	11	110	Edgefield
13	01	38	19	L. D. ε G. C. Holmes	16	128	Edgefield
13	01	38	19	Vernon Holmes	10	50	Edgefield
13	01	38	19	Maurice Smith	14	70	Edgefield
13	01	38	19	Ridge Fishing Club	12	110	Edgefield
13	01	38	19	H. G. Reynolds	15	90	Edgefield

APPENDIX B SUMMARY OF 10 TO 1,000 ACRE LAKES

	/		STREAM	CODE			
PEP.	MAJOC NUMBEO	PRIME RIVER	SECONDARY TERT ARE	LAKE NAME OR OWNER	SURFACE AREA (acres)	GROSS STORAGE (acre-ft)	LOCATION BY COUNTY (SOUTH CAROLINA)
03	01	38	19	Long Pond		44	Edgefield
03	01	38	19	L. D. Holmes	12	115	Edgefield
03	01	38	19	J. Maurice Smith	12	90	Edgefield
03	01	38	19	Hovis Bruce & W. G. Smith, Jr.	15	125	Edgefield
03	01	38		Embree Sand Pit	15	45	Bamberg
03	01	38		Embree Sand Pit	12	36	Bamberg
03	01	38	05	T. Conner Guess	15	48	Bamberg
03	01	38	06	W. R. Spell	12	43	Bamberg
03	01	38	06	P. C. A. Richardson	10	36	Bamberg
03	01	35		Airport	12	38	Bamberg
03	01	38	09	J. H. Hair	19	68	Barnwell
03	01	38		T. E. Redd Pond	13	42	Barnwell
03	01	38	12	Ed Bolen's Pond	12	38	Barnwell
03	01	38	12	Whaley (Matthews Pond)	32	102	Barnwell
03	01	38	13	Willis Mill Pond	20	64	Barnwell
03	01	38	13	W. C. Smith & Sons	10	36	Barnwell
03	01	38	15	W. C. Smith & Sons	20	72	Barnwell
03	01	38	13	Boylston Mill			Barnwell

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