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Water Resources Support Center
Institute for Water Resources

Navigation Operation and Maintenance:

Expenditures for Harbors and Waterways

Fiscal Year 1996

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- National and Special Studies
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NAVIGATION OPERATION AND MAINTENANCE: Expenditures for Harbors and Waterways Fiscal Year 1996

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PREFACE

Overview

This report documents the actual Fiscal Year FY 1996 expenditures for the operation and maintenance (O&M) of U.S. Army Corps of Engineers navigation projects. These costs were developed using the Corps Navigation Cost Recovery Database System (NCRDBS). The NCRDBS was established by the Headquarters, U.S. Army Corps of Engineers (HQUSACE) in 1981 to help evaluate proposed navigation cost recovery legislation. The NCRDBS contains operation and maintenance expenditures dating from Fiscal Year FY 1977 for commercial navigation, other and joint purposes for all projects with navigation as an authorized purpose.

The database is organized into three components: deep draft navigation projects subject to the Harbor Maintenance Tax (HMT); shallow draft harbor projects subject to the Inland Waterway Fuel Tax; and shallow draft projects not subject to the fuel tax. Navigation O&M costs for deep draft projects and shallow draft harbors not subject to the fuel tax are recovered from the Harbor Maintenance Trust Fund (HMTF).

The NCRDBS is updated annually over a cycle of three increments: (1) "preliminary" O&M cost estimates for the next fiscal year based on the Corps initial budget submission to the Office of Management and Budget (OMB); (2) actual prior year expenditures, and (3) "final" estimated costs for the next fiscal year in connection with the release of the President's budget.

As part of this annual cycle, the Corps Institute for Water Resources (IWR) coordinates the aggregation of prior year O&M expenditures with HQUSACE and all District and Division Construction-Operations offices at the beginning of each fiscal year. Estimates of future year O&M expenditures are initially developed based on the Corps budget request to OMB, and are finalized upon release of the President's budget request.

IWR maintains, updates, analyzes and reports on the NCRDBS for HQUSACE, and actively uses it on a variety of navigation-related studies. The data is used annually by both OMB and Congress in the preparation of the Corps budget, and is also used by the Civil Works Policy Division and U.S. Customs Service to implement and administer the Harbor Maintenance Tax established by Water Resources Development Act (WRDA) of 1986. The U.S. Department

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of Agriculture has used the inland waterway portion of the NCRDBS in several Congressionally mandated studies of government support to agriculture.

The NCRDBS has also been employed by the Corps in several of its national studies that examined navigation O&M. These include work on the potential recovery of inland waterway O&M costs, the National Dredging Needs Study of Ports and Harbors, and the recently completed Dredged Material Disposal Policy study. Currently, the O&M costs are being used by the Operations, Construction and Readiness Division's Cost Reduction Task Force in the development of performance-based discriminators for the evaluation of Corps navigation projects.

ACKNOWLEDGMENTS

The 1996 update of the NCRDBS and this report were prepared by Mr. Jack Lane and Mrs. Margaruiette Olson of IWR's Navigation Analysis Division. Mr. Lane and Mrs. Olson are responsible for maintaining the database and generating its various annual reports. Some of the analysis herein applies and extends the work of Mr. William Holliday of IWR's Policy and Special Studies Division in connection with the Section 216 Dredged Material Disposal Policy Study. This report was developed under the direction of Mr. Robert Pietrowsky, Chief of the Institute's Navigation Analysis Division.

The NCRDBS outputs are the direct result of the COEMIS data provided by Mr. David Harmon of the HQUSACE Operations, Construction and Readiness Division (CECW-O) and Mrs. Linda Stoutenburgh of the USACE Finance Center. Project specific data on 1996 O&M expenditures were provided by representatives from Division and District Construction-Operations offices throughout the nation.

HQUSACE policy guidance and oversight of the NCRDBS was provided by Mr. DuWayne Koch of the Civil Works Policy Division and Mr. Barry Holliday, Chief of CECW-O's Dredging and Navigation Branch.

Navigation Operation and Maintenance:
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Navigation Operation and Maintenance:
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EXECUTIVE SUMMARY

FY 1996 Results

In FY 1996 *total navigation O&M expenditures* for waterways and harbors reached a record **$1,012 million**, of which **$536 million or 53 percent was for harbors** and **$476 million or 47 percent was for waterways** and (Table 1). The FY 1996 total represented a *four percent increase over FY 1995* and a *one percent increase from FY 1994* in actual dollars. However, this net increase in actual spending can be traced to the *growth in O&M expenditures for deep and shallow draft (non-fuel tax) harbors*, which mask a retreat from the record totals of inland waterways O&M posted in FY 1994-1995. *Waterways O&M costs declined by $11 million* in FY 1996 compared to the average for the two previous years, but were still well above the $441 million average for FY 1991-1995. (see Section 2.2 for additional detail).

The *four percent increase* in FY 1996's total navigation O&M expenditures compared to FY 1995 stems from a *ten percent increase in deep draft* navigation costs and *17.7 percent increase in shallow draft* harbor expenditures, while O&M spending on the *inland waterways fell by almost three percent.* The **deep draft navigation** O&M actuals for FY 1996 (**$461.7 million**) represents the *highest amount* recorded for this category, while the **$74.4 million** for **shallow draft harbors** stands third to the spending totals of FY 1994 ($82.9 million) and FY 1988 ($77.3 million).

FY 1996 actual total navigation costs were about **$27 million below** the *estimate in the President's budget* of **$1,039 million** as all three project types shared in the cost savings. (Table 1). Waterways were below estimate by $16 million, deep draft harbors by $2 million, and shallow draft harbors by approximately $9 million.

Total navigation O&M expenditures (in actual dollars) have steadily grown over the last twenty years, with the FY 1996 costs representing a 134 percent increase or $579 million over the FY 1977 total (Figure 1). This overall gain is the result of deep draft navigation O&M costs increasing by 115 percent, shallow draft harbor expenditures growing by 140 percent, and inland waterway O&M spending increasing by 154 percent since FY 1977. (Section 2.2.1).

Within this overall growth there has also been a *gradual shift of the relative spending share from deep draft harbors to inland waterways (Figure 1).* Navigation O&M outlays for deep draft harbors exceeded those for inland waterways O&M for every year between 1977 and

TABLE 1
NAVIGATION O&M EXPENDITURES
SUMMARY FOR HARBORS AND WATERWAYS
(FY 1996 ACTUAL AND ESTIMATED COSTS AND SELECTED HISTORICAL DATA)

NAVIGATION CATEGORY	ACTUALS ($000)				PRES. BUDGET	ANNUAL AVERAGES ($000)			
	1977	1994	1995	1996	EST. 1996	1977-96	1977-86	1987-96	1991-95
HARBORS									
DEEP DRAFT	214,669	436,277	418,893	461,722	463,693	346,324	314,784	377,864	408,618
SHALLOW DRAFT	30,925	82,920	63,234	74,264	83,340	56,974	46,316	67,631	67,067
COST RECOVERY									
SUBTOTAL	245,594	519,196	482,126	535,986	547,033	403,297	361,100	445,495	475,685
INLAND WATERWAYS	187,709	481,563	489,745	475,960	492,388	349,201	265,659	432,743	440,784
NAVIGATION TOTAL	433,304	1,000,759	971,871	1,011,946	1,039,421	752,499	626,760	878,238	916,469
NAVIGATION TOTAL (CONSTANT 1996 $)	1,033,191	1,103,379	959,564	1,011,946	1,039,421	974,413	960,329	988,497	988,238

SOURCE: Actual and estimated amounts from the Navigation Cost Recovery Data Base System (NCRDBS), USACE, Institute for Water Resources; annual averages from IWR-N staff calculations; 1996 constant dollar amounts based on use of Dredging (Inland Waterways), EM1110-2-1304.

Figure 1

Corps of Engineers Navigation O&M Expenditures (Actual $'s) - Historical

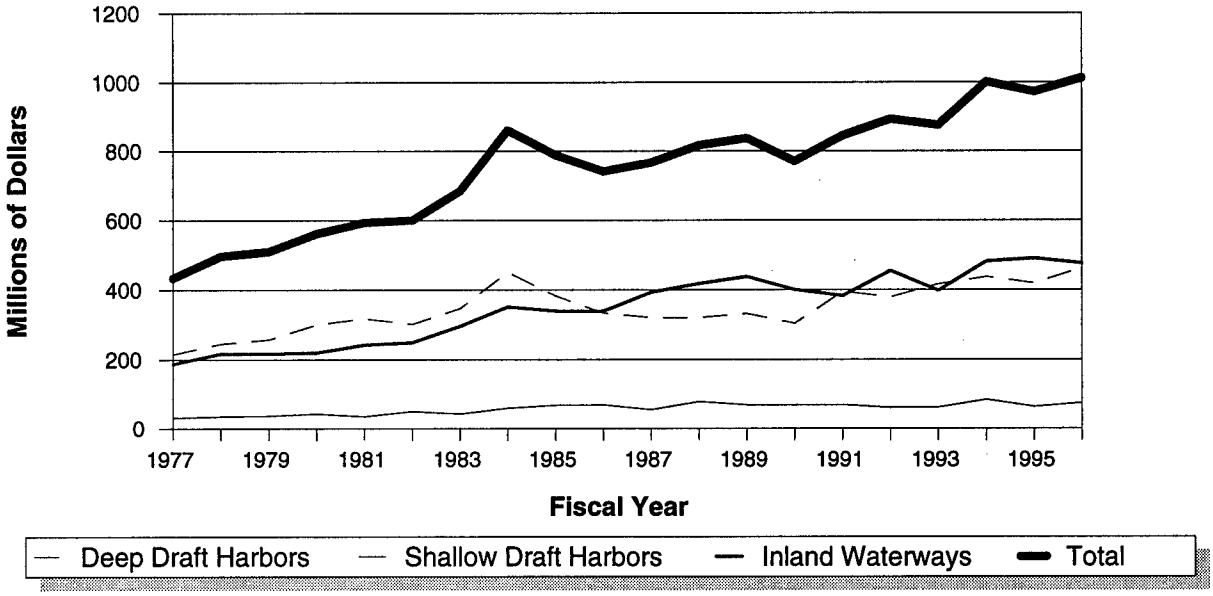
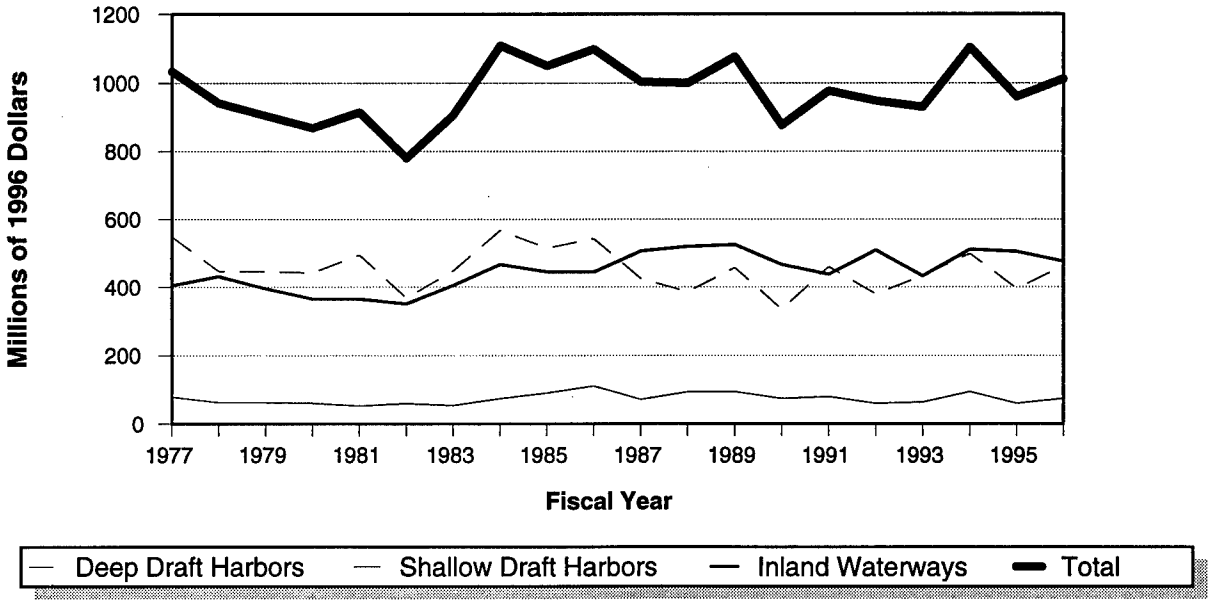


Figure 2

Corps of Engineers Navigation O&M Expenditures (Constant 1996 $'s) - Historical



1985. However, beginning in 1986, O&M costs on the inland waterways have exceeded spending for deep draft harbor projects for all but one year (1993).

The higher costs of waterways for the last ten years and their greater relative share of navigation O & M expenditures can be partially attributed to major rehabilitation, major maintenance, and new waterway projects. A comparison of costs for specific waterways in 1983 and 1989 shows there were six waterways with increases of greater than $10 million and five with increases of $3 to $8 million. For the Upper Mississippi, Ohio, and Illinois major rehabilitation comprised one-half or more of the cost increase. Starting in FY 1993 new major rehabilitation projects were funded under the Construction General appropriation, and the overall cost of continuing major rehabilitation funded under O & M began to decline as projects were completed.

The completion of new waterway projects has contributed to the growth of inland navigation O&M costs. In FY 1989 navigation O&M costs for the Tennessee - Tombigbee Waterway cost $13.7 million more than in FY 1983 and costs for the Red River Waterway had increased by $3.1 million over the same period. By FY 1996 the navigation O & M costs for the two new projects totaled almost $23 million.

Major maintenance costs on the waterways, which began to rise substantially after 1985, especially on the Upper Mississippi and Illinois, are a reflection of aging facilities. By the year 2000 about 40 percent of inland waterway lock chambers will have exceeded their 50 year design lives, including many heavily used locks on the Upper Mississippi and Illinois Rivers. Major maintenance costs are expected to reach a fifteen year total of about $350 million by the year 2000.

When total navigation O&M expenditures over the period of analysis are examined in *constant (1996) dollars*, quite a different picture emerges (Figure 2). In constant dollars total average annual navigation O&M costs for the last ten years (FY 1987-1996) are only three percent higher than the first ten years; the **FY 1996 navigation O&M total of $1,012 million** is only four percent above the average annual spending of $974 million of the FY 1977-1996 period.

In 1996 dollars, overall navigation O&M spending has exceeded the $1 billion level eight times over the twenty year period of record. Five of those years occurred between FY 1984 and FY 1989, with the highest total being $1,108 million in 1984. In fact, in real terms, the FY 1996 navigation O&M total is approximately equal to the FY 1977 amount of $1,033 million, with the major difference being the shift in relative spending from deep draft O&M to O&M for inland waterways, as discussed above. (Section 2.2.2).

In FY 1996 the navigation O&M costs *subject to recovery from the HMTF* reached a **record $536 million**, up by 11 percent from FY 1995. This increase continues the general trend of growth reflected over the last ten years, with the yearly average recoverable costs for the period FY 1991-1995 ($475.7 million) representing a 22 percent increase over the $388.4 million average during the previous five years (FY 1986-1990). This growth has been totally within the deep draft navigation category: O&M expenditures for deep draft harbors for the period FY 1991-1995 averaged $408.6 million, up 27 percent from the $321.4 yearly average during FY 1986-1990. In

contrast, the average annual shallow draft O&M expenditures has remained at approximately $67 million over the last ten years. (Section 2.2.3)

Expenditures in FY 1996 for the ten highest cost projects accounted for a 35 percent share of deep draft projects and 26 percent of shallow draft projects (Sections 2.3 and 2.4) . Over the past six years the relative share of costs for the ten most expensive deep draft harbors and waterways has declined about seven percentage points. Deep and shallow draft projects in ten states represented about 70 percent of the harbor costs. (Section 2.5).

FY 1996 expenditures for the ten-highest cost waterways were almost $352 million or almost three-fourths of the total for all fuel-taxed waterways (Section 2.6). The most expensive was the Upper Mississippi at $89 million, followed by the Ohio River, Lower Mississippi River, and the Gulf Intracoastal (GIWW), costing $57 to 36 million. There has been a steady decline from 81 to 74 percent in the share of total waterway O&M costs for the ten highest cost waterways over the FY 1991-96 period, in part due to the relative stability in costs for many of these waterways (Section 2.6).

Navigation project performance measures were generated based on each projects annual average O&M for the period FY 1977-94 and recent waterborne traffic activity (FY 1992-94). The overall deep draft and shallow draft project portfolios averaged about 16.5 cents and 46.5 cents per ton, respectively, in terms of annual O&M costs per ton of waterborne commerce per project. As a group, the deep draft projects averaged approximately $405.5 million in O&M costs per year, with almost eighty projects averaging more than $1 million O&M per year. The shallow draft group tends to possess lower O&M and traffic levels and also less frequent O&M. The shallow draft the group averaged $57.4 million in average annual O&M, or about $140,000 per project (Section 2.7).

Performance on the inland waterways system is not directly comparable to ports and harbors because O&M costs are aggregated by waterway segment and traffic data is measured in ton-miles as a more meaningful utilization measure. The overall cost per ton-mile for the inland waterway segments is 0.16 cents, with the highest cost waterways having very low to moderate O&M costs per ton-mile (Section 2.7).

Organization of Report

The remainder of this report is organized into two chapters consisting of text and summary tables followed by a series of tabs which include the NCRDBS tables of navigation O&M expenditures for FY 1996. Chapter I consists of background material on the NCRDBS, including a brief history and description of the database, its intended purpose, how the various O&M cost reports are organized, what O&M costs are captured by the system, and how these O&M costs are allocated to navigation.

Chapter II presents a discussion and overview of the results for 1996, focusing on the "actual" expenditures for navigation O&M. Previous NCRDBS results dating from 1977 are also presented. The 1996 NCRDBS tables are included in **Appendices A-H** while **Appendices I-J**

match project O&M expenditures and waterborne commerce data.

Appendix A - Table 1D: Deep Draft Navigation Projects, Navigation Cost Recovery Analysis by Segment, O&M Expenditures for FY 1996 (**Actual**).

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Appendix K -Shallow Draft Navigation Projects Subject to the Inland Waterway Fuel Tax, Analysis by Segment, O&M Expenditures, Average ton-Miles per year, Annual O&M Cost per Ton-Miles per year.

Exhibit 1 - Navigation Cost Recovery Segments

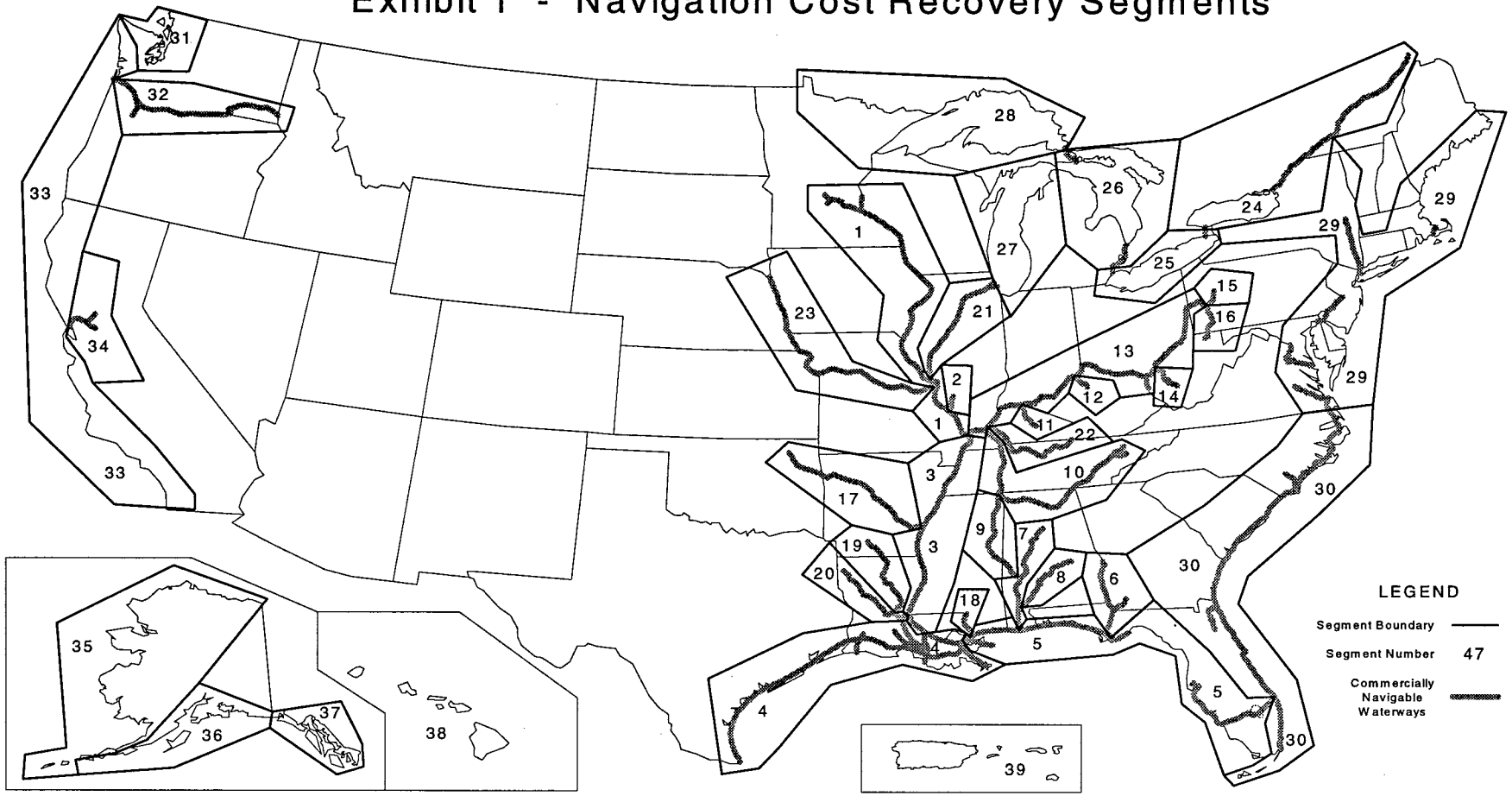
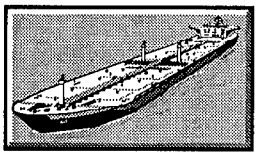


Exhibit 1 (Continued)
Navigation Segment Listing

Segment	Name	Segment	Name
1	Upper Mississippi River	21	Illinois Waterway
2	Kaskaskia River	22	Cumberland River
3	Lower Mississippi River	23	Missouri River
4	West Gulf (GIWW-West)	24	Lake Ontario
5	East Gulf (GIWW-East)	25	Lake Erie
6	Apalachicola, Chattahoochee, & Flint Rivers	26	Lake Huron
7	Black Warrior River	27	Lake Michigan
8	Alabama-Coosa Rivers	28	Lake Superior
9	Tennessee-Tombigbee River	29	North Atlantic Coast
10	Tennessee River	30	South Atlantic Coast
11	Green and Barren Rivers	31	Puget Sound
12	Kentucky River	32	Columbia River System (Columbia Snake River)
13	Ohio River	33	West Coast
14	Kanawha River	34	San Francisco Bay Area (Sacramento)
15	Allegheny River	35	North Alaska
16	Monongahela River	36	Central Alaska
17	Arkansas and White River	37	Southeastern Alaska (Juneau, AK)
18	Pearl River	38	Hawaiian Islands
19	Ouachita and Black River	39	Caribbean
20	Red River	40	Other Pacific



Navigation Operation and Maintenance:
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Fiscal Year 1996

CHAPTER I - INTRODUCTION

1.1 Background

The Navigation Cost Recovery Database System (NCRDBS) was developed by the Headquarters, U.S. Army Corps of Engineers (HQUSACE) Civil Works Office of Policy for the purpose of analyzing proposed navigation cost recovery legislation. The data base was initially established early in 1981 in conjunction with legislation proposed in Administration supported bills: S. 809 and H.R. 2959 for deep-draft projects and S. 810 and H.R. 2962 for shallow draft projects. These bills defined the scope of cost recovery to focus on projects which are for commercial navigation purposes.

The NCRDBS currently contains operation and maintenance expenditures dating from Fiscal Year (FY) 1977 for all Corps projects with commercial navigation as an authorized purpose. The database is updated annually on a fiscal year basis over a cycle of three increments:

(a) "Preliminary" O&M cost estimates are developed for the next budget year based on the Corps initial submission to the Office of Management and Budget (OMB);

(b) "Actual" O&M expenditures are compiled for the prior fiscal year; and,

(c) "Final" O&M estimated costs are documented for the next fiscal year in connection with the annual release of the President's budget request (these estimates replace the preliminary O&M estimates described above).

As an example of this annual cycle, the latest update began with IWR's development of the "preliminary" FY 1998 estimates in the fall of 1996. This estimate was based on the Corps initial submission of its FY 1998 budget request to OMB. Next, in the first quarter of FY 1997, when the "actual" O&M expenditures for FY 1996 were available, IWR completed the FY 1996 O&M "actual" report (these are the expenditures documented herein). Finally, upon release of the President's FY 1998 budget, the "final" estimated O&M costs for FY 1998 will be compiled to replace the "preliminary" estimates within the NCRDBS.

Ultimately, the final estimated and actual O&M expenditures for a given fiscal year are documented together in NCRDBS reports for that year. Thus, this report contains tables displaying the final estimates based on the FY 1996 President's budget(Appendices F, G, and H) along with the actual navigation O&M expenditures for FY 1996 (Appendices A-E).

1.2 Sources of Funds

All Corps O&M expenditures are authorized and appropriated by Congressional action. The three categories of appropriations of interest to the NCRDBS are as follows (prefixed by the Corps funding citations):

o 96x3123 Operations and Maintenance, General

o 96x3112 Flood Control, Mississippi River and Tributaries

o 96x5125 Maintenance and Operation of Dams & Other Improvements of Navigable Waters

Most NCRDBS costs (approximately 90 percent) are funded under the 96x3123 appropriations category. This category funds navigation projects in coastal and Great Lakes waters and inland waterways. The NCRDBS routinely segregates the O&M expenditures into three components:

o *Deep draft projects* subject to cost recovery from the Harbor Maintenance Trust Fund ;

o *Shallow draft projects* subject to the inland waterway fuel tax; and,

o *Shallow draft projects* not subject to the fuel tax.

The traditional distinction between shallow and deep draft waterway and channel projects is *fourteen feet.* Projects which have a depth of *fourteen feet or less* are considered *shallow draft*; those *greater than fourteen feet* are considered *deep draft.* An exception to the depth definition is for a project with an authorized depth greater than fourteen feet, but only at the open water entrance channel for access to a channel of fourteen feet or less. Such a project is treated as a shallow draft project.

1.3 Navigation Cost Recovery Database Reports

The NCRDBS is a menu-driven, online query/update and report system. It generates a series of three reports which correspond to the navigation project categories described in Section 1.3 above. The O&M cost report for the deep draft category of projects is known as Table 1D, while O&M costs for the shallow draft project categories are displayed in tables designated as 11S and 21S, for fuel tax and non-fuel tax projects, respectively.

Both the 1D table for deep draft projects and the 21S table for shallow draft projects not subject to the fuel tax are used for cost recovery purposes. These tables encompass those Corps projects whose maintenance costs are initially funded by Federal general revenues and reimbursed by the Harbor Maintenance Trust Fund (HMTF). The Harbor Maintenance Tax (HMT) was authorized under Sections 1401 and 1402 of the Water Resources Development Act

(WRDA) of 1986, Public Law 99-662. This law imposed a fee on the value of commercial cargo loaded (export and domestic) or unloaded (imports) and the ticket price of passenger vessels at ports which have had federal expenditures for construction, operation or maintenance made on their behalf since 1977. As amended, the law now recovers 100 percent of the O&M expenditures made by the Corps of Engineers at Federally maintained channels and harbors at maritime, Great Lakes and inland ports.

In 1988 the Executive Branch determined that collection of the HMT would be administratively and economically prohibitive at the shallow draft ports and harbors (coastal and inland) subject to the tax because of the exemptions in the law, and the low levels of taxable cargo at these areas. *Collection of the HMT is currently limited to deep draft ports having navigation expenditures since 1977.* Therefore, the O&M expenditures for the shallow draft projects appearing on Table 21S, although reimbursed by the Harbor Maintenance Trust Fund, are not directly recovered from collection of the tax at these shallow draft harbors at this time.

Cargo shipped on waterways subject to the Inland Waterways Fuel Tax (Public Law 95-502) is not subject to the HMT. The Corps operation and maintenance expenditures for projects on the fuel tax system (Table 11S) are not paid from the HMTF; instead, these O&M expenditures are appropriated from Federal general revenues. Note that revenue generated from the Inland Waterways Fuel tax is used to pay for 50 percent of the *capital (new construction and major rehabilitation)* costs on the fuel tax system, and *is <u>not used</u> to recover O&M expenditures on the system.*

Each of the three NCRDBS reports (i.e., Tables 1D, 11S, and 21S) presents navigation project O&M costs organized by waterway segment (Appendices A-C). Exhibit 1 presents a map depicting the location of the 40 segments used by the Corps. Projects within each segment are listed numerically by assigned Corps of Engineers "Project Work Identification" (PWI) code (formerly known as the project CWIS number). In addition, the deep draft and non-fuel tax shallow draft projects (Tables 1D and 21S, respectively) are also presented in an alternate format with projects organized alphabetically within each state (Appendices D and E and Chapter II - Analysis of FY 1996 Results).

1.4 Costs Included in the Navigation Cost Recovery Database System

The NCRDBS contains project total, navigation, other, and joint operation and maintenance expenditures on a yearly (fiscal year) basis for all Civil Works projects authorized solely or in part (i.e., multi-purpose projects) for navigation purposes. *Navigation expenditures are defined as those navigation O&M costs incurred by the Corps of Engineers on water resources projects which have navigation as an authorized purpose.* Projects authorized for navigation may include *recreational boating, fishing, harbors of refuge, and for some inland waterway projects, multi-purpose flood control, water supply and/or hydro-power. Non-navigation costs attributed to these purposes are <u>not</u> recovered for the HTMF.*

The accounts specified within the NCRDBS are for navigation, other (including recreation), and joint use costs. Historically, the bulk of the O&M cost data has been derived from the Corps wide financial database known as the Corps of Engineers Management Information System (COEMIS). The COEMIS system is accessed electronically by IWR to extract the navigation O&M cost accounts relevant to the NCRDBS. Note that the COEMIS system is being replaced by the new Corps of Engineers Financial Management System (CEFMS) as Corps offices are brought online to the new system. Additional cost data on approximately 90 multiple purpose projects and navigation projects which include recreation is obtained from an annual survey of Corps' Division and District Construction-Operations offices.

The NCRDBS consists of a series of electronic files (dBASE III tables) which include all Corps navigation projects for which O&M costs are expended within a given fiscal year. Separate files exist for each fiscal year from 1977 through 1996. The costs are displayed as the *actual dollars* spent that year for each project and as a total amount. IWR separately maintains the database in *constant dollars* (currently expressed as *1996 dollars*), and also has calculated the average yearly O&M for each project over the entire 1977-1994 period (also in *1996 dollars*).

1.5 O&M Cost Allocation

Most of the projects for which O&M costs appear in the NCRDBS are authorized as single purpose navigation projects. However, some of the projects with navigation expenditures are multiple purpose projects which include other authorized water resources functions in addition to navigation. Total O&M costs for a particular project may be divided into specific costs and joint costs:

o *Specific costs are those costs which are unique to a single purpose* (i.e., costs associated with locks are specific to navigation, those costs attributed to powerhouse operation are specific to hydropower production, etc.).

o *Joint costs are those associated with more than one project purpose* (i.e., costs for the operation of a dam spillway would be a joint cost for a multiple-purpose reservoir project).

When all specific costs are added together and subtracted from total costs, the remainder is the joint cost. Reasonable and established cost allocation procedures are applied to allocate joint costs to specific project purposes. This allocation is especially important for multipurpose projects because, for example, water supply and hydroelectric power are vendible project outputs involving costs which are reimbursable to the Federal government.

Different administrative procedures are used to allocate joint costs and to arrive at total navigation costs for four types of projects in the NCRDBS. The first type involves *single purpose navigation projects* for which costs attributable to commercial navigation are obtained simply by subtracting recreational specific costs from the total project costs. Costs that would be considered joint costs not directly attributable to navigation in multiple purpose projects are attributed entirely to navigation in single purpose navigation projects. Over 90 percent of the total

navigation O&M costs applies to single purpose projects, including about 80 percent of the shallow draft fuel tax project total.

The second type of project is multiple purpose projects that have an established *administrative cost allocation* for reimbursable purposes. These projects have had their cost allocation determined administratively at the time of project completion. The principal technique used is the *Separable Costs-Remaining Benefits (SCRB) Method* and involves allocating both separable costs and remaining joint costs for each specific project purpose such as navigation, flood damage reduction, recreation hydropower, fish and wildlife, etc. At the end of each fiscal year all Corps districts are surveyed to identify the specific costs allocated to navigation and other purposes based on these allocation percentages. Ultimately, navigation costs include costs specific to navigation and those joint use costs allocated to navigation based on the latest official cost allocation formula. Approximately six percent of the 11S projects fall into this category.

Multiple purpose projects without administrative allocation are a third category representing only about one percent of total navigation costs. Under the current O&M *Feature Cost Code (FCC)* definition, certain *FCCs* are attributed specifically to navigation in the NCRDBS tables (i.e., for the Table 11S cost data, four *FCCs* - 601.1 Operation of Locks; 622 Lock Maintenance; 626 Breakwater, Jetty and Seawall Maintenance; and, 633 Channel and Canal Maintenance are designated as navigation cost accounts). There are eight *FCCs* attributed specifically for other project purposes (e.g., 604 Operation of Power Plants, 605 Natural Resources Management, and 629 Maintenance of Recreation Facilities, etc.). Joint costs are computed as the total O&M costs minus the costs for the navigation and other accounts. Ten percent of joint costs is added to the sum of the costs for the four navigation *FCC's* to arrive at the total costs attributable to navigation. The ten percent is merely an "engineering estimate" to recognize the contribution the joint cost makes toward navigation.

The fourth type of project, the *Mississippi River and Tributaries (MR&T)* component of the inland waterway system, is also *without an administrative allocation.* It is treated like type three above, except that 33 percent of joint costs is allocated to navigation. MR&T projects account for nearly 13 percent of the 11S navigation O&M costs. The Mississippi River and Tributaries project provides for flood protection of the alluvial valley of the Mississippi River and its tributaries between Cape Girardeau, Missouri, above the junction with the Ohio River and the Head of Passes, Louisiana. It also provides for a shallow draft navigation channel from Cairo, Illinois, at the junction with the Ohio River to Baton Rouge.

Note that a new O&M cost breakdown (now designated as *Work Category Codes* (*WCC*s) based on Corps of Engineers business functions is expected to simplify and increase the consistency of the above allocation procedures. The new *WCCs* are planned for use in the execution of the FY 1998 budget and in the formulation of all budgets thereafter. The cost allocation approach for navigation O&M cost recovery described above will generally be followed under the new procedure.

CHAPTER II - ANALYSIS OF FY 1996 RESULTS

2.1 Introduction

This chapter consists of a summary and analysis of the Corps actual FY 1996 navigation O&M expenditures. The FY 1996 results are presented as O&M expenditure totals by navigation category (deep draft, shallow draft, and inland waterways), and are compared with the average navigation O&M spending over the previous five years and displayed against the President's Budget estimate for FY 1996 (Table II-1).

FY 1996 navigation costs are also discussed within the context of the NCRDBS historical record dating back to FY 1977. The historical record is presented in both actual and constant (1996) dollars, resulting in quite different trends, as would be expected. These trends are displayed in both tabular and graphical forms (Tables II-2 and II-3, and Figures II-1 and II-2). FY 1996 cost recovery data and historical trends are presented for deep and shallow draft (non-fuel tax) harbors whose O&M is subject to recovery from the HMTF. Included in this analysis is data on the number of harbor projects maintained each year, and the average O&M cost/harbor project for FY 1977-1996 (Table II-4).

Finally, actual O&M expenditures for FY 1991-1996 are presented for the ten highest cost projects (or waterways) within each navigation category, and the ten states with the highest FY 1991-1996 O&M cost recovery amounts (Tables II-5 thru II-8).

The following paragraphs summarize the FY 1996 results. For more specific information on individual projects, refer to the FY 1996 O&M cost reports for the 1D, 21S and 11S navigation categories included within Appendices A-H.

2.2 Summary of FY 1996 Navigation O&M Expenditures

In FY 1996 total navigation O&M expenditures for waterways and harbors reached a record $1,012 million, of which $536 million or 53 percent was for harbors and $476 million or 47 percent was for waterways and (Table II-1 and Appendices A-C). The FY 1996 total represented a four percent increase over FY 1995 and a one percent increase from FY 1994 in actual dollars. However, this net increase in actual spending can be traced to the growth in O&M expenditures for deep and shallow draft (non-fuel tax) harbors, which mask a retreat from the record totals of inland waterways O&M posted in FY 1994-1995. Waterway costs declined by $11 million in FY 1996 compared to the average for the two previous years, but were well above the $411 million average for FY 1991-1993, or the $441 million average for FY 1991-1995 (Table II-1).

TABLE II-1
NAVIGATION O&M EXPENDITURES*
FOR HARBORS AND WATERWAYS
FY 1991-96 ($1,000)

NAVIGATION CATEGORY	ACTUALS 1991	1992	1993	1994	1995	AVG. 1991-93	AVG. 1991-95	PRES. BUDGET EST. 1996	ACTUAL 1996
HARBORS									
DEEP	393,946	378,307	415,667	436,277	418,893	395,973	408,618	463,693	461,722
SHALLOW	68,284	59,675	61,223	82,920	63,234	63,060	67,067	83,340	74,264
SUBTOTAL	462,229	437,981	476,890	519,196	482,126	459,034	475,685	547,033	535,986
WATERWAYS	381,924	453,765	396,923	481,563	489,745	410,871	440,784	492,388	475,960
TOTAL	844,154	891,746	873,814	1,000,759	971,871	869,904	916,469	1,039,421	1,011,946

SOURCE: Navigation Cost Recovery Data Base System (NCRDBS), USACE, Institute for Water Resources

**** Costs include construction costs for dikes and revetments in the Mississippi River and Tributaires (MR&T) account, where such work is comparable to similar work funded by O&M. In FY 1996 MR&T dike and revetment navigation recoverable costs totaled $23,081,500.***

The four percent increase in FY 1996's total navigation O&M expenditures compared to FY 1995 is due to a ten percent increase in deep draft navigation costs and a 17.7 percent increase in shallow draft harbor expenditures. At the same time navigation O&M spending on the inland waterways fell by almost three percent. The deep draft navigation O&M actuals for FY 1996 ($461.7 million) represents the highest amount recorded for this category, while the $74.4 million expended on O&M for shallow draft harbors stands third to the spending totals of FY 1994 ($82.9 million) and FY 1988 ($77.3 million).

Total navigation O&M expenditures averaged 14 percent higher for the FY 1994-1996 years compared with the FY 1991-1993 years. This increase reflects a boost in costs for the waterways in FY 1994 and 1995 after the Great Flood of 1993, in combination with increases of $21 million for both deep and shallow draft harbors in FY 1994, and a $25 million jump in deep draft costs in FY 1996.

Consequently, total navigation O & M costs (actual dollars) topped $1 billion for the first time in FY 1994, and again surpassed the billion dollar level in FY 1996 for a new record. After FY 1991 and 1992, when costs averaged $386 million, deep draft projects costs have risen from $416 to $462 million. Shallow draft project costs have varied considerably from $60 to $83 million.

FY 1996 actual total navigation costs were about $27 million below the estimate in the President's Budget Request of $1,039 million as all three project categories shared in the cost savings. Waterways were below estimate by $16 million, deep draft harbors by $2 million, and shallow draft harbors by over $9 million. See paragraphs 2.3, 2.4 and 2.6 below for additional discussions of these cost savings. Appendices F-H include the 1D, 21S and 11S project listings for the FY 1996 President's Budget estimate.

2.2.1 Historical Trends

Table II-2 and Figure II-1 present the Corps actual navigation O&M expenditures for the complete twenty year record of the NCRDBS (FY 1977-1996). In actual dollars overall navigation O&M expenditures have steadily grown since FY 1977 (up by 134 percent), with deep draft costs increasing by 115 percent, shallow draft harbor expenditures growing by 140 percent, and inland waterways O&M spending up by 154 percent. Within this overall growth there has been a gradual shift of the relative spending share from deep draft harbors to inland waterways. Navigation O&M outlays for deep draft harbors exceeded those for inland waterways O&M for every year between 1977 and 1985. However, since 1985, O&M spending on the inland waterways has exceeded that for deep draft harbor projects for all but one year (1993).

This shift has resulted in the share of navigation O&M spending on deep draft harbors declining relative to overall navigation O&M during the period of analysis. O&M spending on deep draft harbors was near or above 50 percent of the navigation total from FY 1977 through 1985, but has since declined to shares generally about 45 percent, but as low as 39 percent. In fact, the average deep draft O&M cost for the ten year period FY 1977-1986 is $315 million,

TABLE II-2
TOTAL NAVIGATION O&M EXPENDITURES BY CATEGORY
1977-1996 (ACTUAL DOLLARS)

FISCAL YEAR	TOTAL DEEP DRAFT O&M EXPENDITURES (FROM TABLE 1D)		TOTAL SHALLOW DRAFT O&M EXPENDITURES (NON-FUEL TAX, FROM TABLE 21S)		TOTAL INLAND WATERWAY O&M EXPENDITURES (FUEL TAX, FROM TABLE 11S)		TOTAL NAVIGATION O&M COSTS
	ACTUAL ($000)	% OF TOTAL	ACTUAL ($000)	% OF TOTAL	ACTUAL ($000)	% OF TOTAL	
1977	214,669	50%	30,925	7%	187,709	43%	433,304
1978	244,818	49%	34,435	7%	217,157	44%	496,410
1979	256,703	50%	36,110	7%	217,172	43%	509,985
1980	300,181	53%	41,760	7%	219,900	39%	561,841
1981	317,228	53%	34,492	6%	241,769	41%	593,489
1982	301,493	50%	49,237	8%	248,785	41%	599,514
1983	346,654	51%	42,019	6%	295,803	43%	684,476
1984	450,755	52%	58,636	7%	350,567	41%	859,958
1985	382,140	49%	67,261	9%	338,429	43%	787,830
1986	333,202	45%	68,287	9%	339,301	46%	740,789
1987	319,607	42%	53,944	7%	392,440	51%	765,990
1988	320,291	39%	77,311	9%	417,875	51%	815,476
1989	330,742	40%	68,200	8%	437,731	52%	836,673
1990	303,185	39%	67,259	9%	399,505	52%	769,949
1991	393,946	47%	68,284	8%	381,924	45%	844,154
1992	378,307	42%	59,675	7%	453,765	51%	891,746
1993	415,667	48%	61,223	7%	396,923	45%	873,814
1994	436,277	44%	82,920	8%	481,563	48%	1,000,759
1995	418,893	43%	63,234	7%	489,745	50%	971,871
1996	461,722	46%	74,264	7%	475,960	47%	1,011,946
AVERAGES							
1977-96	346,324	47%	56,974	8%	349,201	46%	752,499
1977-86	314,784	50%	46,316	7%	265,659	42%	626,760
1987-96	377,864	43%	67,631	8%	432,743	49%	878,238
1991-96	417,468	45%	68,266	7%	446,647	48%	932,381

SOURCE: Navigation Cost Recovery Data Base System (NCRDBS) Reports, FY 1977-1996, USACE, Institute for Water Resources

Figure II-1

Corps of Engineers Navigation O&M Expenditures (Actual $'s) - Historical

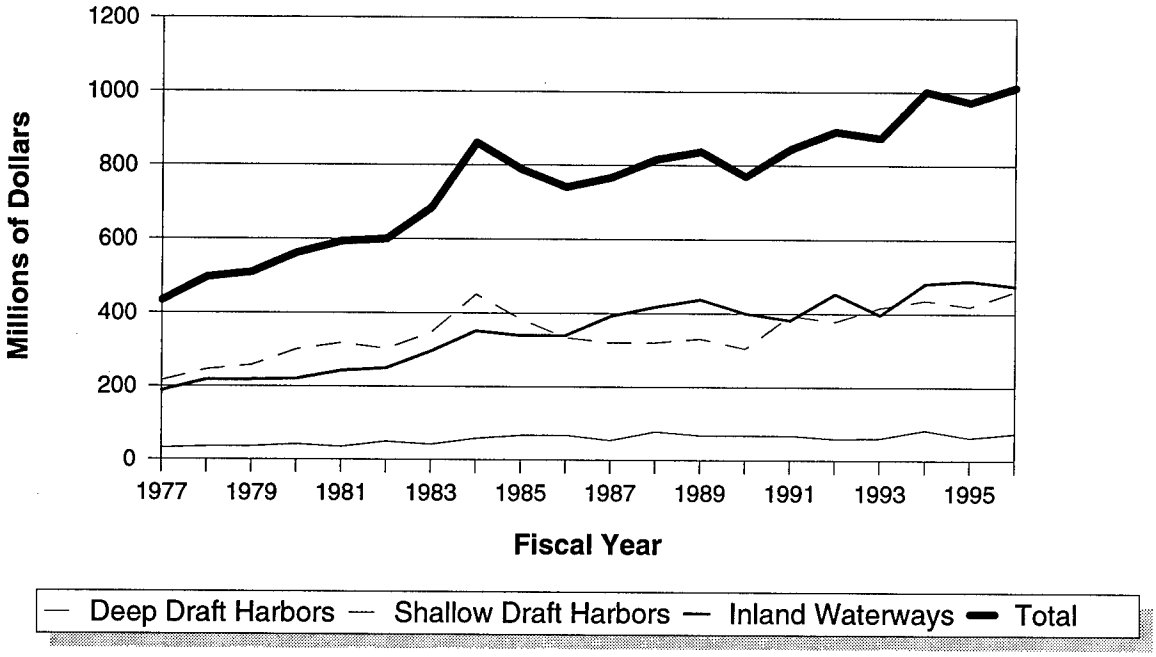
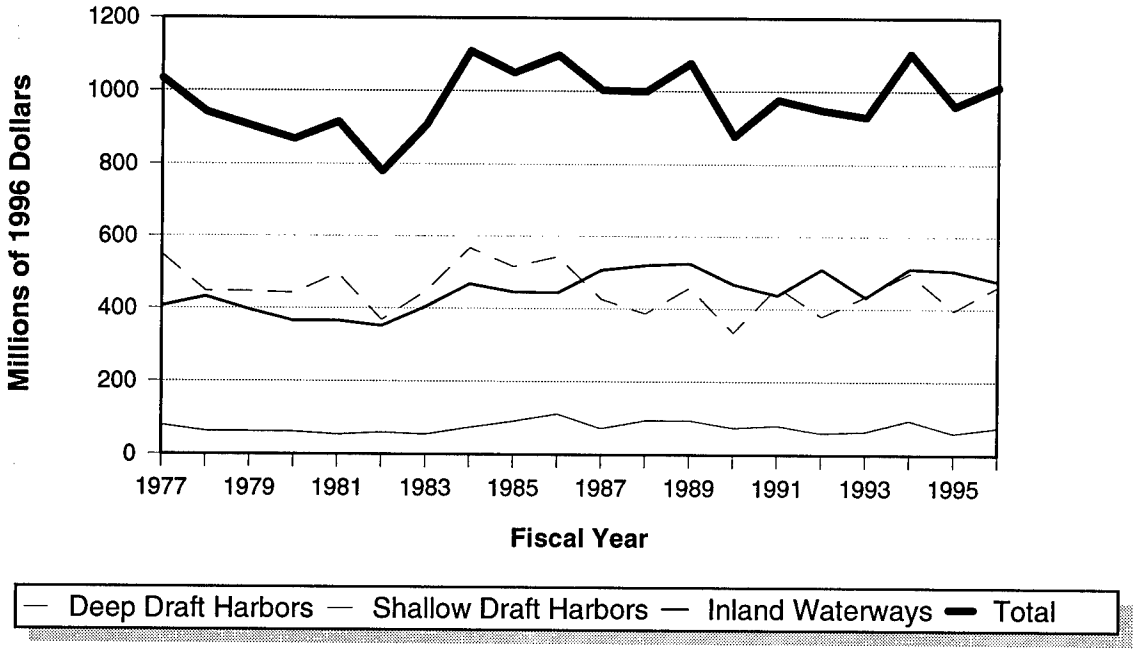


Figure II-2

Corps of Engineers Navigation O&M Expenditures (Constant 1996 $'s) - Historical



or 50 percent of the navigation total, while the relative share of the deep draft average annual amount over the last ten years ($378 million) has declined to 43 percent of the total. The deep draft navigation O&M share of 46 percent for FY 1996 is typical for the period 1991-1995 (average of 45 percent of total navigation O&M).

Inland waterways O&M expenditures for the FY 1977-1986 period averaged $266 million or 42 percent of the navigation total, while the average for the last ten years ($433 million for FY 1987-1996) has resulted in an increased share of 49 percent of the total. In FY 1987 to 1990 waterways accounted for 51 or 52 percent of navigation O & M costs. During this period waterway costs hit a peak of $438 million in FY 1989, or over $140 higher than the $296 million just six years earlier in 1983.

The higher costs of waterways for the last ten years and their greater relative share of navigation O & M expenditures can be partially attributed to major rehabilitation, major maintenance, and new waterway projects A comparison of costs for specific waterways in 1983 and 1989 shows there were six waterways with increases of greater than $10 million and five with increases of $3 to $8 million. For the Upper Mississippi, Ohio, and Illinois major rehabilitation comprised one-half or more of the cost increase. Starting in FY 1993 new major rehabilitation projects were funded under the Construction General appropriation, and the overall cost of continuing major rehabilitation funded under O & M began to decline as projects were completed.

The completion of new waterway projects has contributed to the growth of inland navigation O&M costs. In FY 1989 navigation O&M costs for the Tennessee - Tombigbee Waterway cost $13.7 million more than in 1983 and costs for the Red River Waterway had increased by $3.1 million over the same period. By FY 1996 the navigation O & M costs for the two new projects totaled almost $23 million.

Major maintenance costs on the waterways, which began to rise substantially after 1985, especially on the Upper Mississippi and Illinois, are a reflection of aging facilities. By the year 2000 about 40 percent of inland waterway lock chambers will have exceeded their 50 year design lives, including many heavily used locks on the Upper Mississippi and Illinois Rivers. Major maintenance costs are expected to reach a fifteen year total of about $500 million by the year 2000.

Major maintenance in FY 1996 was defined as a non-repetitive item of maintenance or aggregate items of related work in which the total estimated cost exceeded $3 million. The work would make the project feature effective for its desired purpose and would not qualify as major rehabilitation.

Shallow draft harbor navigation O&M costs have generally remained constant around 7-8% through the overall twenty year period, while inland waterway O&M attributed to navigation rose from shares around 40 percent (1977-1985) to expenditure totals approaching or exceeding 50 percent (Table II-2).

2.2.2 Navigation O&M Costs: Real Spending

When O&M expenditures over the period of analysis are examined in constant (1996) dollars, quite a different picture emerges. As can be seen from Table II-3, the FY 1996 overall total of $1,012 million was only four percent above the average navigation O&M spending throughout the FY 1977-1996 period and, in fact, has been exceeded by spending in six other fiscal years.

In 1996 dollars overall navigation O&M spending has averaged $974 million over the period of record, during which the $1 billion spending level has been exceeded eight times. The highest annual constant dollar expenditure total was $1.108 billion in 1984. The spending trend over the last ten years has essentially been flat, with the annual averages for FY 1987-1996 and FY 1991-1996 both being $988 million. In real terms the FY 1996 total is approximately equal to the FY 1977 total ($1.033 billion), with the major difference being the shift in relative spending from deep draft O&M to O&M for inland waterways, as discussed in section 2.2.1

2.2.3 Navigation Cost Recovery

Navigation O&M expenditures for deep draft (1D Report) and shallow draft (21S Report for non-fuel tax system) harbors are subject to recovery form the Harbor Maintenance Trust Fund. The FY 1996 1D and 21S Cost Recovery Tables are included in their entirety as Appendices A and B, respectively. Table II-4 presents an historical summary of these costs along with a count of the number of deep and shallow draft projects maintained each year FY 1977-1996. The yearly average annual O&M cost per deep and shallow draft project is also tabulated in Table II-4 (in actual dollars) and displayed on Figures II-3 and II-4 (in actual and constant dollars, respectively).

In FY 1996 the navigation O&M costs subject to recovery from the HMTF reached a record $536 million, up by 11 percent from FY 1995. This increase continues the general trend of growth reflected over the last ten years, with the yearly average recoverable costs for the period FY 1991-1995 ($475.7 million) representing a 22 percent increase over the $388.4 million average during the previous five years (FY 1986-1990). This growth has been totally within the deep draft navigation category: O&M expenditures for deep draft harbors for the period FY 1991-1995 averages $408.6 million, up 27 percent from the $321.4 yearly average during FY 1986-1990. In contrast, the average annual shallow draft O&M expenditures has remained at approximately $67 million over the last ten years.

In addition, the number of harbor projects maintained per year has also grown in recent years, particularly in FY 1995 and 1996. The FY 1996 total of 477 harbor projects maintained stands second to the record total of 535 projects for FY 1995 (Table II-4). This contrasts with the 385 average annual number of harbor projects maintained during the previous ten years. Over the twenty year period of record the growth in the number of projects being maintained has been primarily within the shallow draft navigation category. The average number of shallow draft projects maintained per year has risen by 30 percent when comparing the FY 1977-1986

TABLE II-3
TOTAL NAVIGATION O&M EXPENDITURES BY CATEGORY
1977-1996 (CONSTANT 1996 DOLLARS)

FISCAL YEAR	TOTAL DEEP DRAFT O&M EXPENDITURES (BASED ON TABLE 1D)		TOTAL SHALLOW DRAFT O&M EXPENDITURES (NON-FUEL TAX, BASED ON TABLE 2TS)		TOTAL INLAND WATERWAY O&M EXPENDITURES (FUEL TAX, BASED ON TABLE 1TS)		TOTAL NAVIGATION O&M COSTS
	1996 ($000)	% OF TOTAL	1996 ($000)	% OF TOTAL	1996 ($000)	% OF TOTAL	
1977	548,695	53%	79,044	8%	405,452	39%	1,033,191
1978	447,037	47%	62,878	7%	431,274	46%	941,189
1979	445,893	49%	62,724	7%	395,687	44%	904,304
1980	441,566	51%	61,430	7%	365,034	42%	868,029
1981	495,193	54%	53,842	6%	365,555	40%	914,590
1982	367,821	47%	60,069	8%	351,284	45%	779,174
1983	447,184	49%	54,205	6%	404,954	45%	906,343
1984	567,500	51%	73,823	7%	466,955	42%	1,108,278
1985	514,743	49%	90,588	9%	445,035	42%	1,050,365
1986	542,786	49%	111,239	10%	443,806	40%	1,097,831
1987	425,397	42%	71,800	7%	505,855	50%	1,003,051
1988	386,591	39%	93,314	9%	519,836	52%	999,741
1989	457,416	42%	94,320	9%	524,839	49%	1,076,576
1990	335,019	38%	74,323	8%	467,021	53%	876,363
1991	459,735	47%	79,687	8%	437,303	45%	976,725
1992	379,063	40%	59,794	6%	509,124	54%	947,981
1993	433,541	47%	63,856	7%	432,249	46%	929,646
1994	498,228	45%	94,694	9%	510,456	46%	1,103,379
1995	395,435	41%	59,693	6%	504,437	53%	959,564
1996	461,722	46%	74,264	7%	475,960	47%	1,011,946
AVERAGES							
1977-96	452,528	46%	73,779	8%	448,106	46%	974,413
1977-86	481,842	50%	70,984	7%	407,503	43%	960,329
1987-96	423,215	43%	76,575	8%	488,708	50%	988,497
1991-96	437,954	44%	71,998	7%	478,255	48%	988,207

SOURCE: Constant dollar amount are based on Navigation cost Recovery Data Base System (NCRDBS) Reports, FY 1997-1996, USACE, Institute for Water Resources application of Dredging Cost Per Yard (CPY) Index (for deep and shallow draft harbors) from CECW-OD's Continuing Analysis of Dredging Quantities and Costs for FY 1996, and Civil Works Construction Cost Index (for Inland Waterways) from EM-1110-2-1304).

period with the last ten years, as compared to an eight percent increase in average real costs per year.

A net result of this trend is that the average annual cost (in actual dollars) per deep draft project has averaged approximately $2 million/project per year over the last decade, with the FY 1995 and 1996 amounts representing a decline from the peak average of $2.35 million/project in 1993, Table II-4. The 1995 and 1996 average annual costs per shallow draft project ($203 thousand and $296 thousand, respectively) sharply declined (by 32 percent and 10 percent, respectively) from the $331,700 average/harbor over the period FY 1985-1994. However, as shown in Figures II-3 and II-4, these trends in average annual cost per deep and shallow draft harbors are less evident when the costs are displayed in 1996 constant dollars. In real terms the average cost/project for both deep draft and shallow draft projects peaked in FY 1986.

2.3 Navigation O&M Expenditures for Deep Draft Harbors

Expenditures for the ten highest cost deep draft harbors in FY 1996 amounted to $162.6 million or about 35 percent of the total for all deep draft projects (Table II-5 and Appendix A). Their total was $8.2 million higher than estimated in the President's budget as the cost for eight projects exceeded their estimate. This increase was offset by the Mississippi River, Baton Rouge to the Gulf, project, which was $13.4 million below its estimated cost. Expenditures for the ten projects in FY 1996 exceeded their combined average annual cost for FY 1991-95 by $6.8 million.

For the past six years expenditures on the ten highest cost deep draft projects have held steady while those for deep draft projects overall have risen. As a result, the most expensive projects' share of deep draft project costs declined from 43 to 35 percent. In three years (1992-1994) the cost of these top ten projects ranged from $157 to $164 million but recorded amounts of $170 million in 1991 and then sharply dropped below $130 million in 1995, primarily due to the decline in O&M costs for the Mississippi River-Baton Rouge to Gulf project.

The location and physical characteristics of the top ten projects contribute to their higher costs. Six are affected by both coastal currents and riverine sedimentation. The St. Marys River project is not on the coast and the Mississippi River-Gulf Outlet project is not riverain, but both have the added expense of lock operation and maintenance. Costs for the Intracoastal Waterway from the Delaware River to Chesapeake Bay for FY 1991-93 include the costs for the waterway's rehabilitation and St. Georges Bridge at the project. Although the Columbia and Lower Willamette Rivers project is not on the coast and has no locks, large volumes of sediment are deposited over its approximately 115 mile length, despite the presence of dams upriver to catch some of the sediment.

TABLE II-4
NAVIGATION COST RECOVERY OF O&M EXPENDITURES
DEEP DRAFT AND SHALLOW DRAFT HARBORS, 1977-1996
ACTUAL DOLLARS

FISCAL YEAR	NO. OF DEEP DRAFT PROJECTS MAINTAINED	DEEP DRAFT O&M COSTS ACTUAL ($000)	AVERAGE COST PER PROJECT ($000)	NO. OF SHALLOW DRAFT PROJECTS MAINTAINED	SHALLOW DRAFT O&M COSTS ACTUAL ($000)	AVERAGE COST PER PROJECT ($000)	TOTAL O&M COSTS RECOVERABLE FROM HMTF
1977	177	214,669	1,213	172	30,925	179.80	245,594
1978	190	244,818	1,289	190	34,435	181.24	279,253
1979	192	256,703	1,337	171	36,110	211.17	292,814
1980	196	300,181	1,532	189	41,760	220.95	341,941
1981	178	317,228	1,782	183	34,492	188.48	351,720
1982	177	301,493	1,703	164	49,237	300.22	350,729
1983	183	346,654	1,894	159	42,019	264.27	388,673
1984	193	450,755	2,336	164	58,636	357.54	509,391
1985	186	382,140	2,055	199	67,251	337.95	449,391
1986	174	333,202	1,915	200	68,287	341.43	401,488
1987	171	319,607	1,869	188	53,944	286.94	373,551
1988	183	320,291	1,750	193	77,311	400.57	397,602
1989	187	330,742	1,769	206	68,200	331.07	398,942
1990	193	303,185	1,571	200	67,259	336.30	370,444
1991	191	393,946	2,063	203	68,284	336.37	462,229
1992	185	378,307	2,045	204	59,675	292.52	437,981
1993	177	415,667	2,348	209	61,223	292.93	476,890
1994	186	436,277	2,346	222	82,920	373.51	519,196
1995	224	418,893	1,870	311	63,234	203.32	482,126
1996	226	461,722	2,043	251	74,264	295.87	535,986
AVERAGES							
1977-96	188	346,324	1,836	199	56,973	287	403,297
1977-86	185	314,784	1,705	179	46,315	258	361,100
1987-96	192	377,864	1,967	219	67,631	315	445,495
1991-96	198	417,468	2,119	233	68,266	299	485,735

SOURCE: Navigation Cost Recovery Data Base System (NCRDBS) Reports, FY 1977-1996, USACE, Institute for Water Resources

Figure II-3

Navigation O&M Cost Per Project, **Deep Draft** Harbors, 1977-1996

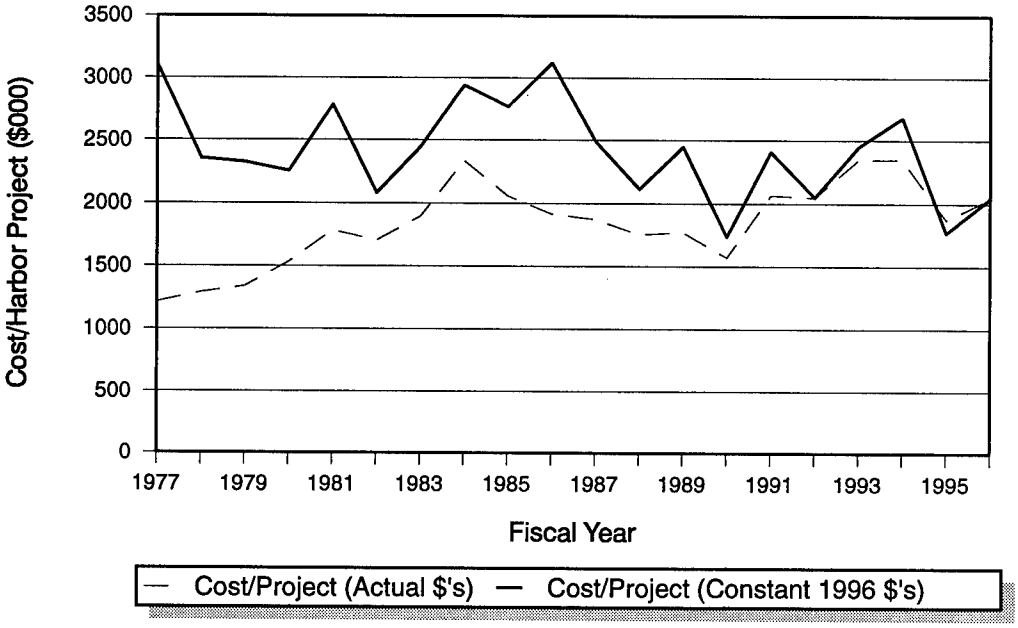
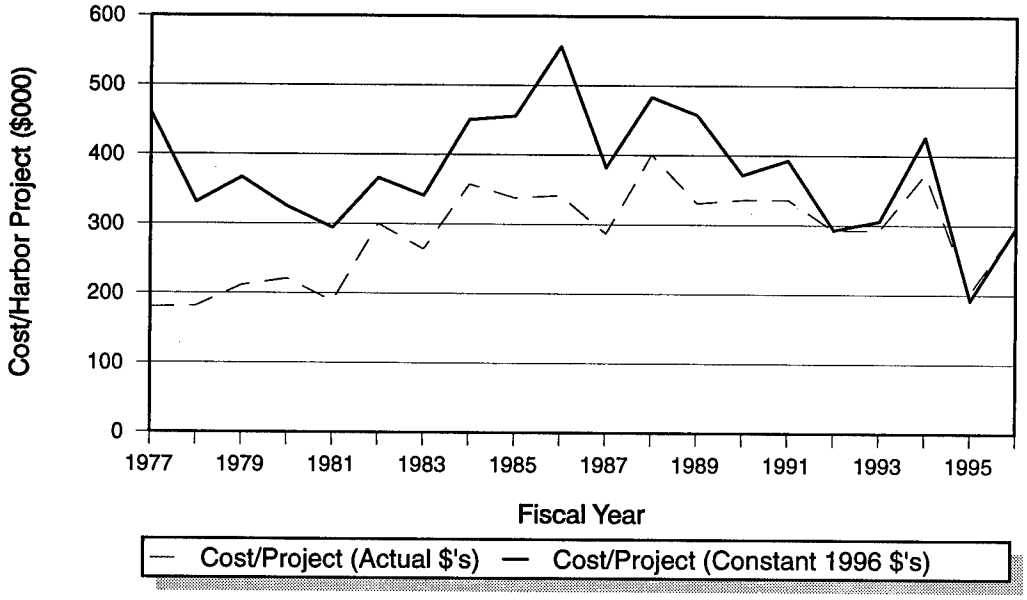


Figure II-4

Navigation O&M Cost Per Project, **Shallow Draft** Harbors, 1977-1996



2.4 Navigation O&M Expenditures for Shallow Draft Harbors

Navigation expenditures for the ten highest cost shallow draft harbors in FY 1996 amounted to $19.0 million or about 26 percent of the total for all shallow draft harbor projects (see Table II-6 and Appendix B). Their total was $4.0 million less than estimated in the President's budget mainly because the Manteo Bay and New Jersey Intracoastal Waterway projects were $3.2 and $1.2 million, respectively, below their estimates. The FY 1996 total navigation expenditures for the top ten were only $0.3 million below their average for the previous five years as increases in costs for six projects offset the $2.2 million decrease for Manteo Bay.

For the past six years expenditures on the ten highest cost shallow draft harbor projects have fluctuated in a small range between $18.5 and $20.4 million. Consequently, their share of all shallow draft harbor costs has dropped as costs for other projects rose. None of the projects showed a trend of rising or falling costs, although costs for the Trinity River were noticeably higher in FY 1993-95. Five projects displayed regular fluctuations in annual costs of less than $1 million and another five projects varied by more than $1 million per year. For four projects, including Manteo Bay, costs jumped even more in one or two years. Costs for Manteo Bay, the most expensive shallow draft harbor, were $5.2 to $6.1 million in three years, but peaked at $8.2 million in FY 1991 and plummeted to $2.1 and $3.3 million respectively in FY 1994 and 1996.

While a project's location and physical characteristics play a role in its costs, only two (Freshwater Bayou and Rouge River Harbor at Gold Beach) obtain both coastal and riverine influences. Four others are affected by coastal currents and four by rivers. The added expense of lock and/or dam operations and maintenance is borne by three projects (Okeechobee Waterway, Fox River, and Freshwater Bayou).

2.5 Navigation O&M Expenditures for Deep and Shallow Draft Harbors by State

In ten states the navigation O&M expenditures for harbor projects in FY 1996 exceeded $20 million (see Table II- 7 and Appendices D and E). In Louisiana and Delaware the project costs were $84 and $55 million respectively. The costs in four states were $30 to $40 million and $20 to $30 million in four other states. The projects in the ten states cost a total of $386 million or 72 percent of the $586 million total for all deep and shallow draft harbor projects.

Geographically three states are on the Pacific Coast; three are on the Gulf Coast; Florida is on the Gulf and Atlantic Coasts; one is on the Atlantic Coast alone; New York is on the Atlantic Coast and Great Lakes; and Michigan is on the Great Lakes.

TABLE II-5
NAVIGATION COST RECOVERY OF O&M COSTS
FOR TEN HIGHEST COST DEEP DRAFT PROJECTS
FY 1991-96 ($1,000)

PWI	PROJECT NAME	1991	1992	1993	1994	1995	AVG. 91-95	EST. 1996	1996
68	MISS RIVER-BATON ROUGE TO GULF, LA	47,728	36,817	42,803	60,840	43,745	46,386	51,837	38,461
8160	IWW FM DEL R TO CHPKE BAY	20,573	22,526	26,069	11,842	12,102	18,622	16,090	17,691
11670	MOBILE HBR, AL	21,687	20,425	14,446	15,987	17,358	17,980	17,780	20,344
4570	DEL RVR& PA NJ PHILA TO SEA	14,365	15,404	14,442	12,638	11,649	13,700	18,157	20,586
11410	MISS R-GULF OUTLET, LA	9,417	11,720	13,591	12,026	9,025	11,156	12,054	17,004
17380	ST MARYS RIVER, MI	8,090	9,300	10,810	11,610	13,096	10,581	9,505	11,753
3630	COLUMBIA & LWR WLMTE RVR, OR	10,589	10,889	9,245	10,350	11,475	10,510	11,017	17,042
870	*BALT HBR CHS, MD & VA	14,251	16,688	13,600	4,266	792	9,919	N/A	2,541
15780	SABINE-NECHES WW ,TX	14,305	5,894	7,282	12,544	3,426	8,690	11,946	17,118
12490	NEW YORK HARBOR, NY & NJ	9,421	8,857	11,842	4,705	6,677	8,300	6,020	65
	SUBTOTAL: TEN HIGHEST	170,426	158,520	164,130	156,806	129,344	155,845	154,406	162,606
	TOTAL: ALL DEEP DRAFT	393,946	378,307	415,667	436,277	418,893	408,618	463,693	461,722
	TEN HIGHEST SHARE OF TOTAL	43%	42%	39%	36%	31%	38%	33%	35%

* Estimated cost not available, but may have been included in estimate for Baltimore Harbor & 50FT Channel, which was $13,425,000.00. Actual cost for the latter project was $8,776,740.00

SOURCE: Navigation Cost Recovery Data Base System (NCRDBS) Reports, FY 1977-1996, USACE, Institute for Water Resources

TABLE II-6
NAVIGATION COST RECOVERY OF O&M COSTS
FOR TEN HIGHEST COST SHALLOW DRAFT PROJECTS
FY 1991-96 ($1,000)

PWI	PROJECT NAME	1991	1992	1993	1994	1995	AVG. 91-95	EST 1996	1996
10580	MANTEO BAY, NC	8,210.3	6,100.4	6,014.0	2,063.4	5,171.3	5,511.9	6,506.0	3,309.6
13240	OKEECHOBEE WWY, FL	1,715.0	2,974.9	1,925.0	4,983.7	2,235.5	2,766.8	3,326.0	3,629.0
8190	NEW JERSEY IWW, NJ	2,448.4	3,214.0	1,792.0	2,358.8	2,829.6	2,528.6	3,729.0	2,507.4
6610	FOX RIVER, WI	1,708.1	1,681.0	2,199.0	1,792.9	2,271.6	1,930.5	2,215.0	2,117.3
6200	FRESHWATER BAYOU, LA	1,964.5	1,039.9	880.0	1,989.8	1,631.9	1,501.2	1,659.0	1,664.4
19550	IWW COAST OF VA, VA	921.8	1,218.3	1,341.0	1,157.0	955.9	1,118.8	1,268.0	1,371.6
99981	MR&T-MCKELLER LK HBR, TN	1,239.0	840.0	1,540.0	1,595.0	289.0	1,100.6	1,415.0	1,930.0
18510	TRINITY RIVER, TX	639.1	487.9	1,060.0	1,648.7	1,167.7	1,000.7	1,270.0	701.7
15600	ROGUE RVR HBR GOLD BH, OR	1,050.0	929.6	828.0	1,063.2	1,031.8	980.5	816.0	998.2
76106	CHINCOTEAGUE INLET, VA	457.4	1,412.6	945.0	663.7	958.2	887.4	888.0	816.5
	SUBTOTAL: TEN HIGHEST	20,353.6	19,898.4	18,524.0	19,316.1	18,542.4	19,326.9	23,092.0	19,045.7
	TOTAL: ALL SHALLOW DRAFT	68,283.8	59,674.6	61,222.9	82,919.6	63,233.7	67,066.9	83,340.0	74,264.0
	SHARE OF TOTAL	30%	33%	30%	23%	29%	29%	28%	26%

SOURCE: Navigation Cost Recovery Data Base System (NCRDBS) Reports, FY 1977-1996, USACE, Institute for Water Resources

Deep draft projects in the top ten states cost almost $346 million in FY 1996 or 75 percent of all those projects. The Mississippi River, Baton Rouge to the Gulf, costing over $38 million, and three other projects costing $8 to $17 million helped boost Louisiana to first place in deep draft costs among the states. It was followed by Delaware, mainly due to the cost of the Delaware River from Philadelphia to the Sea, the Intracoastal Waterway form the Delaware River to Chesapeake Bay, and the St. Georges Bridge. The Delaware River project also borders Pennsylvania and New Jersey and the IWW also passes through Maryland.

The ten states with the highest harbor costs claimed over $40 million or 55 percent of the $74 million total in FY 1996 shallow draft costs. New York headed the list with shallow draft projects costing over $10 million, followed by Florida with $9.5 million and Louisiana with $6.7 million. In six other states O&M costs for shallow draft harbors were between $1 and $5 million.

2.6 Navigation O&M Expenditures for Inland Waterways

Expenditures in FY 1996 for the ten highest cost waterways were almost $352 million and almost three-fourths of the total for all fuel-taxed waterways (see Table II-8 and Appendix C). The most expensive was the Upper Mississippi at $89 million, followed by the Ohio, Lower Mississippi, and Gulf Intracoastal (GIWW), costing $57 to $36 million. The Arkansas, Atlantic Intracoastal (AIWW), and Illinois were next with $27 to $22 million while the Tennessee-Tombigbee, Black Warrior-Tombigbee (BWT), and Monongahela completed the top ten with costs of $16 to $14 million.

Actual 1996 costs fell below the amounts estimated in the President's budget for eight waterways. Exceptions were the Upper Mississippi, which was 7.4 percent and $6.1 million higher than estimated, and the AIWW, which was 7.3 percent and $1.8 million higher. Although the 1996 costs for the ten highest cost waterways were about $11 million above the five year average for FY 1991-95 their 1996 costs were $15 and $17 million, respectively, below the amounts for FY 1994 and 1995.

There has been a steady decline from 81 to 74 percent in share of total waterways costs for the ten highest cost waterways over the FY 1991-96 period. This has been due in part to the relative stability in costs for many of the high cost waterways. The annual costs for the Monongahela, BWT, and Tenn-Tom haven't deviated much from their averages. The Upper Mississippi and GIWW costs in FY 1996 returned to average levels after surges in FY 1994 and 1995. On the Upper Mississippi the surge probably reflected increased maintenance costs caused by the Great Flood of 1993. The 43 percent jump in FY 1996 costs above the FY 1991-95 average is probably an aberration for the AIWW. The Lower Mississippi has been volatile, with annual costs ranging from $49 to $70 million.

TABLE II-7

NAVIGATION O&M EXPENDITURES FOR THE TEN STATES WITH THE HIGHEST TOTAL PROJECT EXPENDITURES (NON-FUEL TAX PROJECTS)

FY 1996 ($1,000)

State	Deep Draft	Shallow Draft	TOTAL
Louisiana	77,247.1	6,722.2	83,969.3
Delaware	54,335.6	669.0	55,004.6
Texas	39,243.8	1,464.7	40,708.5
Oregon	36,877.0	3,129.3	40,006.3
California	32,241.7	1,432.6	33,674.3
New York	22,566.0	10,292.7	32,858.7
Michigan	27,081.2	2,330.8	29,412.0
Florida	19,179.3	9,540.0	28,719.4
Alabama	20,383.8	1,106.6	21,490.4
Washington	16,411.8	4,373.9	20,785.7
SUBTOTAL: TEN HIGHEST	345,567.4	40,484.3	386,051.7
TOTAL	461,722.0	74,264.0	536,166.6
TEN HIGHEST SHARE OF TOTAL	75%	55%	72%

SOURCE: FY 1996 Navigation Cost Recovery Data Base System (NCRDBS) Report, USACE, Institute for Water Resources

TABLE II-8
NAVIGATION OF O&M EXPENDITURES*
FOR THE TEN HIGHEST COST FUEL TAX WATERWAYS
FY 1991-96 ($1,000)

NAME	1991	1992	1993	1994	1995	AVG. 1991-95	EST. 1996	1996
Upper Mississippi	83,247.0	86,353.0	82,349.4	95,441.1	94,061.0	88,290.3	82,458.7	88,591.8
Lower Mississippi	64,431.0	74,070.0	48,593.0	59,340.7	58,406.4	60,968.2	61,284.0	49,180.0
Ohio	40,377.0	44,651.0	44,160.2	55,736.3	59,336.5	48,852.2	59,049.0	57,047.1
Gulf Intracoastal (GIWW)	29,886.0	37,219.0	33,602.1	40,124.1	46,265.8	37,419.4	41,972.0	36,234.9
Arkansas	24,581.0	24,937.0	23,981.8	27,912.3	27,817.9	25,846.0	30,132.0	27,186.8
Atlantic Intracoastal (AIWW)	19,086.0	20,511.0	17,388.0	18,783.0	16,270.8	18,407.8	24,562.0	26,361.9
Illinois	15,758.0	17,149.0	15,272.2	19,368.5	19,489.9	17,407.5	22,001.0	21,934.8
Tennessee-Tombigbee	11,964.0	19,204.0	15,265.7	17,457.5	16,335.8	16,045.4	16,742.0	15,776.1
Black Warrior-Tombigbee	8,169.0	14,840.0	13,927.6	16,647.8	17,450.9	14,207.1	15,144.0	15,083.5
Monongahela	11,644.0	12,268.0	12,990.1	15,898.8	12,962.3	13,152.6	16,709.6	14,156.4
SUBTOTAL: Ten Highest	309,143.0	351,202.0	307,530.1	366,710.2	368,397.3	340,596.5	370,054.3	351,553.3
TOTAL: All Waterways	381,924.1	453,764.8	396,923.3	481,562.7	489,090.7	440,653.1	493,090.7	475,960.0

** Costs include construction costs for dikes and revetments in the Mississippi River and Tributaries (MR&T) account, where such work is comparable to similar work funded by O&M. In FY 1996 MR&T dike and revetment navigation recoverable costs totaled $23,081,500.*

SOURCE: Navigation Cost Recovery Data Base System (NCRDBS) Reports, FY 1977-1996, USACE, Institute for Water Resources

Only three waterways showed clear, significant increases in O&M expenditures from FY 1991-93 to FY 1994-96. This would be true even if the data were in constant rather than actual dollars. On the Illinois average costs rose 26 percent and $4.2 million from the beginning to the end of the period. The Ohio experienced the steepest increase of all, up 33 percent and $14 million between FY 1991-93 and FY 1994-96.

The four most expensive waterways are all over 600 miles long, but their number of lock sites, the chamber sizes, and age and condition of the facilities vary considerably within each segment. The Lower Mississippi has no locks, the GIWW has only 12 lock sites or approximately one site per 100 miles, the Ohio has 20 sites or two per 100 miles, and the Upper Mississippi has 28 lock sites or about four per 100 miles. The Ohio River generally has more than one chamber at each lock site and its main chambers are generally 1200 feet long. In contrast, locks on the Upper Mississippi are mostly 600 feet long. Most Ohio River locks date from the 1950s and 1960s, but those on the Upper Mississippi date from the 1930s.

While the annual O & M costs for the Upper Mississippi are about 1.8 times greater than those for the Ohio, the ratio of the cost per lock site is only 1.3 to 1.0. The somewhat higher cost per lock site may be explained by the age and condition as well as dredging costs. Dredging costs on the Ohio were only ten percent of the navigation O & M costs in FY 1996, but the NCRDBS does not have a comparable breakout for the Upper Mississippi. Waterway system navigation dredging costs accounted for 14.9 percent of total navigation O&M costs in FY 1992 according to a preliminary detailed cost analysis. Note that dredging on the Missouri and White Rivers was not charged to navigation.

2.7 Navigation O&M Project Performance

The above discussion of navigation operation and maintenance expenditures has focused solely on the costs themselves and not on any outcome oriented measures of performance based on project utilization or efficiency. Such measures involve relating project costs to benefits or, in the absence of benefit data, other project outputs that reflect use, such as tons or ton-miles of traffic, the value of the cargo traffic, vessel traffic, or lockage and lock hardware cycles.

Navigation program and project performance measures have been fully addressed in several other reports completed recently or forthcoming later this year, including a major effort by the Corps Headquarters Directorate of Civil Works - Operations, Construction and Readiness Division on potential cost savings within the overall O&M program, and several other studies sponsored by the Civil Works Policy Analysis and Review Division (see references).

However, for the purpose of ready reference, some general information on navigation project performance has been included herein. Appendices I, J and K each include alphabetical listings of Corps navigation projects that match O&M expenditures and waterborne commerce data at the project level or by waterway segment. Appendix I includes data for 305 deep draft projects; Appendix J presents information on 733 shallow draft (not subject to inland waterway fuel tax) projects; and, Appendix K presents data on 28 inland waterway segments.

The O&M costs displayed in Appendices I, J and K were extracted from the Corps NCRDBS for the years (FY's) 1990-1994. Average annual O&M costs for port (deep draft) and harbor (shallow draft non-fuel taxed) projects were computed based on the eighteen year period FY 1977-1994. This average annual cost is presented in 1994 dollars, based on the use of the Dredging Cost Index developed by the Institute's Policy and Special Studies Division and based on IWR's Analysis of Dredging Quantities and Costs (FY 1963-1996). The average annual O&M costs for inland waterway segments was computed on the five year period FY 1990-1994.

Waterborne commerce data is presented in units of tons for port projects (Appendix I) and shallow draft non-fuel taxed harbors (Appendix J) and in ton-miles for the fuel taxed inland waterways (Appendix K). The list of port and harbor projects has not been screened to identify entrance or connecting channel projects where no tonnages are reported by WCSC because commodities are not loaded or unloaded within these project boundaries. Nevertheless, such projects are essential to the viability of many of the Nation's ports and harbors.

For ports and harbors the waterborne commerce tonnages displayed within Appendices I and J are for the period FY 1992-1994 with the average annual tons computed for this three year time frame. The ton-mile data for the inland waterway segments (Appendix K) is based on a five year (FY 1990-1994) average. While this ton-mile data for waterway segments is considered uniformly representative, the data for some low tonnage port and harbor projects, particularly those which primarily service commercial fishing or serve as a home port for a fishing fleet, may be seriously understated since much commercial fishing activity is unreported. Furthermore, the Corps only directly collects a very small amount of the national fishing data (most is collected by the National Marine Fisheries Service at the county level, and later proportionally disaggregated to the port or waterway level by WCSC) with the result that the scarce data that does exist is not considered uniformly reliable. Likewise, the tonnages for some subsistence ports which provide the only viable means of transporting cargo for populations in Alaska, Hawaii and the island territories may also be understated because of unreliable data for fishing activities.

Some general system-wide observations about project performance can be made based on this data as long as the caveats discussed above are kept in mind. A summary of the results appears on the next page (see Appendices I-K for complete details for each project). As can be seen from the summary, about 83% of the deep draft projects reported traffic during 1992-1994, and about 85% had O&M costs, 1977-1994. The overall portfolio averages about 16.5 cents-per-ton. The median O&M cost-per-ton of 55 cents is based on only those projects that had both O&M costs and reported traffic (232 projects). Even so, this median is indicative of a distribution of project costs-per-ton that includes a great number of projects above the average of 16.5 cents. Within the deep draft inventory, the group of 79 highest cost projects (average annual O&M > $1 million) generally perform well with an average cost-per-ton only slightly above that for the overall category (19.9 versus 16.5 cents). Most of these 79 projects have relatively high traffic levels and low or moderate O&M cost-per-ton ratios, with the LA/Long Beach project having the lowest ratio at 1.25 cents per ton. Nevertheless, even some projects in this group do have relatively less reported traffic, resulting in very high cost-per-ton ratios.

	Deep Draft Port Projects	Shallow Draft Harbor Projects	Inland Waterway Segments
No.of Projects/Segments in Inventory	305	733	28
No.with Zero Avg. Annual O&M (1977-94)	46	324	0
No. with Avg. Annual O&M > Zero	259	409	28
No. With Avg. Annual O&M > $1 Million	79	11	26
Total Average Annual O&M	$405,536,000	$57,412,000	$ 423,114,000
Avg. Annual O&M per Project/Segment	$ 1,566,000	$ 140,400	$ 15,111,000
No. Projects/Segments with Zero Tons Reported (1990-1994)	52	416	0
No. Projects with Tons Reported (1990-1994)	253	317	28
Avg. Annual Project/Segment O&M Cost per Ton (Project) or Ton-Mile (Segment)	16.5 cents/ ton	46.5 cents/ ton	0.16 cents/ ton-mile
Median Annual Project/Segment O&M Cost per Ton or Ton-Mile	54.9 cents/ ton	90.5 cents/ ton	0.89 cents/ ton-mile
O&M Cost per Ton or Ton-Mile for Projects with > $ 1 Million Avg. Annual O&M	19.9 cents/ ton	1.20 dollars/ ton	0.16 cents/ ton-mile

As an overall group the shallow draft harbors tend to possess both lower annual O&M and traffic levels. Only about 43% of the shallow draft projects reported traffic during 1992-1994, although O&M frequency (almost 45% of the projects have had no O&M 1977-1994) and the average annual O&M per project ($140,400) are much less than in the deep draft inventory. The overall shallow draft portfolio averaged 46.5 cents-per-ton, about 30 cents more than the deep draft category. With a median O&M cost- per-ton of 90.5 cents the performance distribution of the shallow draft group is also skewed by a significant number of high cost-per-ton projects. Only 11 projects have average annual O&M costs exceeding $1 million, with nine of these expending between $1-2 million annually and the highest averaging $4.2 million per year. Unlike the deep draft portfolio, these highest cost projects generally have higher cost-per-ton ratios, with the group of 11 averaging about $1.20 per ton. Again, however, many of the Corps shallow draft projects undoubtably have substantial un-reported commercial fishing and recreation activity.

Performance on the waterways system is not directly comparable to port and harbors because O&M costs are aggregated by waterway segment, and traffic data is measured in ton-miles as a more meaningful utilization indicator. The overall cost-per-ton-mile for the system is 0.16 cents. The ten highest cost waterways have very low to moderate costs-per-ton-mile, and none are high cost per ton-mile, including the Lower and Middle Mississippi River, the Ohio River, and the GIWW segments . Although many of the remaining 18 waterways have relatively lower annual average O&M costs, their often relatively modest traffic levels result in only moderate to very high costs-per-ton-mile.

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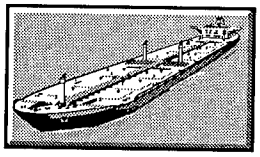

Navigation Operation and Maintenance:
Expenditures for Harbors and Waterways
Fiscal Year 1996

APPENDIX A - Deep Draft Navigation Projects, Navigation Cost Recovery Analysis by Segment, O&M Expenditures for FY 1996 (Actual).

TABLE 1D

DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
4	MISS R-B RGE TO GULF LA	LMN	38460.69	38460.69	0.00	0.00	38460.69	SINGLE PUR NAV	68
4	ATCH R MORGAN CTY-GULF LA	LMN	8250.25	8250.25	0.00	0.00	8250.25	SINGLE PUR NAV	680
4	BRAZOS IS TX	SWG	673.91	673.91	0.00	0.00	673.91	SINGLE PUR NAV	1990
4	CALCASIEU R PASS LA	LMN	8707.58	8707.58	0.00	0.00	8707.58	SINGLE PUR NAV	2440
4	CH TO FT BOLIVAR TX	SWG	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	2930
4	FREEPORT HBR TX	SWG	5947.44	5947.44	0.00	0.00	5947.44	SINGLE PUR NAV	6170
4	GALVESTON HBR CH TX	SWG	321.20	321.20	0.00	0.00	321.20	SINGLE PUR NAV	6340
4	HOUMA NAV CANAL LA	LMN	1643.83	1643.83	0.00	0.00	1643.83	SINGLE PUR NAV	7760
4	HOUSTON SHIP CHNL	SWG	4305.67	4305.67	0.00	0.00	4305.67	SINGLE PUR NAV	7780
4	CHANNEL TO RED BLUFF, TX	SWG	151.61	151.61	0.00	0.00	151.61	SINGLE PUR NAV	8213
4	7.5 MCY STANDBY TIME	LMN	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	8236
4	MATAGORDA SHIP CHNL TX	SWG	3844.89	3844.89	0.00	0.00	3844.89	SINGLE PUR NAV	10810
4	MERMENTAU RIVER LA	LMN	3180.31	3180.31	0.00	0.00	3180.31	MULTI WO ALLOC	11030
4	MISS R-GULF OUTLET LA	LMN	17004.48	17004.48	0.00	0.00	17004.48	SINGLE PUR NAV	11410
4	CORPUS CHRISTI CH TX	SWG	2876.19	2876.19	0.00	0.00	2876.19	SINGLE PUR NAV	14340
4	SABINE-NECHES WW TX	SWG	17118.47	17118.47	0.00	0.00	17118.47	SINGLE PUR NAV	15780
4	TEXAS CITY TX	SWG	1640.88	1640.88	0.00	0.00	1640.88	SINGLE PUR NAV	18130
4	BAYPORT SHIP CHANNEL	SWG	2438.66	2438.66	0.00	0.00	2438.66	SINGLE PUR NAV	88910
4	GREENS BAYOU CHANNEL, TX	SWG	0.23	0.23	0.00	0.00	0.23	SINGLE PUR NAV	88911
4	BARBOUR TERMINAL SHIP CNL	SWG	-75.33	-75.33	0.00	0.00	-75.33	SINGLE PUR NAV	88912
4			116490.96	116490.96	0.00	0.00	116490.96		
5	BAYOU LABATRE AL	SAM	39.72	39.72	0.00	0.00	39.72	SINGLE PUR NAV	1120
5	CHARLOTTE HARBOR FL	SAJ	94.47	94.47	0.00	0.00	94.47	SINGLE PUR NAV	3000
5	GULFPORT HARBOR MS	SAM	1643.96	1643.96	0.00	0.00	1643.96	SINGLE PUR NAV	7150

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SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
5	MOBILE HBR AL	SAM	20344.11	20344.11	0.00	0.00	20344.11	SINGLE PUR NAV	11670
5	PANAMA CITY HBR FL	SAM	706.19	706.19	0.00	0.00	706.19	SINGLE PUR NAV	13640
5	PASCAGOULA HBR MS	SAM	1644.91	1644.91	0.00	0.00	1644.91	SINGLE PUR NAV	13680
5	PENSACOLA HBR FL	SAM	0.30	0.30	0.00	0.00	0.30	SINGLE PUR NAV	13830
5	PT ST. JOE HBR FL	SAM	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	14390
5	TAMPA HARBOR FL	SAJ	3099.52	3099.52	0.00	0.00	3099.52	SINGLE PUR NAV	17960
5	ST. PETERSBURG HBR FL	SAJ	38.87	38.87	0.00	0.00	38.87	SINGLE PUR NAV	74390
5	CARRABELLE HARBOR FL	SAM	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	76018
5			27612.05	27612.05	0.00	0.00	27612.05		
24	GT SODUS BAY HBR NY	NCB	293.84	293.84	0.00	0.00	293.84	SINGLE PUR NAV	6860
24	LITTLE SODUS BAY HBR NY	NCB	219.49	219.49	0.00	0.00	219.49	SINGLE PUR NAV	9970
24	OSWEGO HBR NY	NCB	393.56	393.56	0.00	0.00	393.56	SINGLE PUR NAV	13440
24	ROCHESTER HBR NY	NCB	37.43	37.43	0.00	0.00	37.43	SINGLE PUR NAV	15390
24			944.32	944.32	0.00	0.00	944.32		
25	ASHTABULA HBR OH	NCB	428.46	428.46	0.00	0.00	428.46	SINGLE PUR NAV	650
25	BL ROCK CH TONAWANDA HBR	NCB	3546.51	3546.51	0.00	0.00	3546.51	SINGLE PUR NAV	1660
25	BUFFALO HBR NY	NCB	613.47	613.47	0.00	0.00	613.47	SINGLE PUR NAV	2140
25	CLEVELAND HBR OH	NCB	5440.47	5440.47	0.00	0.00	5440.47	SINGLE PUR NAV	3430
25	CONNEAUT HBR OH	NCB	649.44	649.44	0.00	0.00	649.44	SINGLE PUR NAV	3770
25	DETROIT RVR MI	NCE	4980.58	4980.58	0.00	0.00	4980.58	SINGLE PUR NAV	4710
25	ERIE HBR PA	NCB	895.61	895.61	0.00	0.00	895.61	SINGLE PUR NAV	5600
25	FAIRPORT HBR OH	NCB	329.96	329.96	0.00	0.00	329.96	SINGLE PUR NAV	5760
25	HURON HBR OH	NCB	1229.99	1229.99	0.00	0.00	1229.99	SINGLE PUR NAV	7920

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SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
25	LORAIN HBR OH	NCB	2089.37	2089.37	0.00	0.00	2089.37	SINGLE PUR NAV	10060
25	MONROE HBR MI	NCE	155.35	155.35	0.00	0.00	155.35	SINGLE PUR NAV	11760
25	ROUGE RVR MI	NCE	102.57	102.57	0.00	0.00	102.57	SINGLE PUR NAV	15590
25	SANDUSKY HBR OH	NCB	109.76	109.76	0.00	0.00	109.76	SINGLE PUR NAV	16260
25	TOLEDO HBR OH	NCB	2973.53	2973.53	0.00	0.00	2973.53	SINGLE PUR NAV	18280
25	DUNKIRK HBR NY	NCB	262.10	262.10	0.00	0.00	262.10	SINGLE PUR NAV	50600
25			23807.17	23807.17	0.00	0.00	23807.17		
26	BLACK RIVER-PORT HURON RVR	NCE	3.53	3.53	0.00	0.00	3.53	SINGLE PUR NAV	1110
26	CHS-LKE ST CLAIR MI	NCE	127.39	127.39	0.00	0.00	127.39	SINGLE PUR NAV	2940
26	HARBOR BEACH HBR MI	NCE	3.04	3.04	0.00	0.00	3.04	SINGLE PUR NAV	7300
26	ST CLAIR RVR MI	NCE	812.18	812.18	0.00	0.00	812.18	SINGLE PUR NAV	17300
26	ST MARYS R MI	NCE	17630.60	11375.00	2477.20	3778.40	11752.84	MULTI WO ALLOC	17380
26	SAGINAW RIVER DIKE DISPOSL	NCE	8.72	8.72	0.00	0.00	8.72	SINGLE PUR NAV	44064
26	SAGINAW RVR MI	NCE	1831.01	1831.01	0.00	0.00	1831.01	SINGLE PUR NAV	57420
26	CHEYBOYGAN HBR MI	NCE	3.75	3.75	0.00	0.00	3.75	SINGLE PUR NAV	74203
26			20420.22	14164.62	2477.20	3778.40	14542.46		
27	BURNS WW HBR IN	NCC	890.81	890.81	0.00	0.00	890.81	SINGLE PUR NAV	2250
27	CALUMET HBR R IL	NCC	571.70	571.70	0.00	0.00	571.70	SINGLE PUR NAV	2410
27	CHARLEVOIX HBR MI	NCE	223.25	223.25	0.00	0.00	223.25	SINGLE PUR NAV	2990
27	CHICAGO RVR IL	NCC	370.09	370.09	0.00	0.00	370.09	SINGLE PUR NAV	3810
27	FRANKFORT HBR MI	NCE	3.07	3.07	0.00	0.00	3.07	SINGLE PUR NAV	6130
27	GD HAVEN HBR MI	NCE	1262.81	1262.81	0.00	0.00	1262.81	SINGLE PUR NAV	6670
27	GRAND HAVEN HBR MIT SHR DM	NCE	64.20	64.20	0.00	0.00	64.20	SINGLE PUR NAV	6671

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SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
27	GREEN BAY HBR WI	NCE	1515.67	1515.67	0.00	0.00	1515.67	SINGLE PUR NAV	6910
27	HOLLAND HARBOR MI	NCE	530.20	530.20	0.00	0.00	530.20	SINGLE PUR NAV	7610
27	HOLLAND HBR MIT SHR DAM MI	NCE	56.00	56.00	0.00	0.00	56.00	SINGLE PUR NAV	7611
27	KENOSHA HARBOR WI	NCE	47.90	47.90	0.00	0.00	47.90	SINGLE PUR NAV	8910
27	LUDINGTON HARBOR MI	NCE	349.77	349.77	0.00	0.00	349.77	SINGLE PUR NAV	10270
27	MANISTEE HARBOR MI	NCE	277.03	277.03	0.00	0.00	277.03	SINGLE PUR NAV	10480
27	MANITOWOC HBR WI	NCE	120.78	120.78	0.00	0.00	120.78	SINGLE PUR NAV	10510
27	MICHIGAN CTY HBR IN	NCC	613.88	613.88	0.00	0.00	613.88	SINGLE PUR NAV	11060
27	MILWAUKEE HBR WI	NCE	4247.21	4247.21	0.00	0.00	4247.21	SINGLE PUR NAV	11270
27	MUSKEGON HBR MI	NCE	681.62	681.62	0.00	0.00	681.62	SINGLE PUR NAV	12060
27	MUSKEGON HARBOR MITIGATION	NCE	168.78	168.78	0.00	0.00	168.78	SINGLE PUR NAV	12061
27	PENTWATER HBR MI	NCE	421.19	421.19	0.00	0.00	421.19	SINGLE PUR NAV	13850
27	PT WASHINGTON HBR WI	NCE	1.35	1.35	0.00	0.00	1.35	SINGLE PUR NAV	14420
27	ST JOSEPH HBR MI	NCE	801.97	801.97	0.00	0.00	801.97	SINGLE PUR NAV	17350
27	ST. JOSEPH HBR MIT SHR DAM	NCE	719.03	719.03	0.00	0.00	719.03	SINGLE PUR NAV	17351
27	STURGEON B & L MICH CAN,WI	NCE	117.97	117.97	0.00	0.00	117.97	SINGLE PUR NAV	17660
27	INDIANA HBR IN	NCC	486.19	486.19	0.00	0.00	486.19	SINGLE PUR NAV	18120
27	TWO RVRS HBR WI	NCE	1103.45	1103.45	0.00	0.00	1103.45	SINGLE PUR NAV	18710
27	WAUKEGAN HBR IL	NCC	644.95	644.95	0.00	0.00	644.95	SINGLE PUR NAV	19560
27	WHITE LAKE HBR MI	NCE	107.78	107.78	0.00	0.00	107.78	SINGLE PUR NAV	19810
27	PORTAGE LAKE HBR MI	NCE	130.34	130.34	0.00	0.00	130.34	SINGLE PUR NAV	21530
27	OCONTO HBR WI	NCE	0.74	0.74	0.00	0.00	0.74	SINGLE PUR NAV	23370
27	CHICAGO HBR IL	NCC	5405.14	5405.14	0.00	0.00	5405.14	SINGLE PUR NAV	45009
27	MENOMINEE HBR MI	NCE	26.41	26.41	0.00	0.00	26.41	SINGLE PUR NAV	45044
27	SHEBOYGAN HBR WI	NCE	87.17	87.17	0.00	0.00	87.17	SINGLE PUR NAV	66700

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27	WHITE LK HBR MIT SHR DAM	NCE	210.09	210.09	0.00	0.00	210.09	SINGLE PUR NAV	74176
27	GREEN BAY HBR DIKE DISP WI	NCE	144.28	144.28	0.00	0.00	144.28	SINGLE PUR NAV	74180
27	KEWAUNEE HARBOR WI	NCE	240.32	240.32	0.00	0.00	240.32	SINGLE PUR NAV	76050
27			22643.14	22643.14	0.00	0.00	22643.14		
28	ASHLAND HBR MI	NCE	4.55	4.55	0.00	0.00	4.55	SINGLE PUR NAV	630
28	DULUTH-SUPERIOR MN	NCE	3264.30	2750.90	513.40	0.00	2750.90	SINGLE PUR NAV	5050
28	KEWEENAW WW MI	NCE	481.96	481.96	0.00	0.00	481.96	SINGLE PUR NAV	8960
28	ONTONAGON HBR MI	NCE	769.35	769.35	0.00	0.00	769.35	SINGLE PUR NAV	13330
28	TWO HBRS MN	NCE	3.27	3.27	0.00	0.00	3.27	SINGLE PUR NAV	18700
28	GRAND MARAIS HBR MI	NCE	8.00	8.00	0.00	0.00	8.00	SINGLE PUR NAV	46064
28	PRESQUE ISLE HBR MI	NCE	0.85	0.85	0.00	0.00	0.85	SINGLE PUR NAV	48012
28	MARQUETTE HBR MI	NCE	1.95	1.95	0.00	0.00	1.95	SINGLE PUR NAV	48013
28	PORT WING HBR WI	NCE	1.03	1.03	0.00	0.00	1.03	SINGLE PUR NAV	74190
28	GRAND MARAIS HBR MN	NCE	2.67	2.67	0.00	0.00	2.67	SINGLE PUR NAV	99871
28			4537.93	4024.53	513.40	0.00	4024.53		
29	ABSECON INLET NJ	NAP	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	80
29	POTOMAC R BLW WASH DC	NAB	90.82	90.82	0.00	0.00	90.82	SINGLE PUR NAV	294
29	PORTLAND HBR ME	NED	145.45	145.45	0.00	0.00	145.45	SINGLE PUR NAV	367
29	PTSMTH HBR PISTAQUA RIVER	NED	2.71	2.71	0.00	0.00	2.71	SINGLE PUR NAV	512
29	PROVIDENCE R & HBR RI	NED	124.59	124.59	0.00	0.00	124.59	SINGLE PUR NAV	566
29	SAKONNET HBR RI	NED	0.16	0.16	0.00	0.00	0.16	SINGLE PUR NAV	568
29	POTOMAC R AT ALEX VA	NAB	36.59	36.59	0.00	0.00	36.59	SINGLE PUR NAV	597
29	BALT HBR CHS MD & VA	NAB	2541.26	2541.26	0.00	0.00	2541.26	SINGLE PUR NAV	870

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SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
29	BALTIMORE HBR DRIFT REMOVL	NAB	378.11	378.11	0.00	0.00	378.11	SINGLE PUR NAV	871
29	BALTIMORE HBR PREV OF OBST	NAB	503.24	503.24	0.00	0.00	503.24	SINGLE PUR NAV	872
29	HAMPTON ROADS DRIFT REMOVI	NAO	676.15	676.15	0.00	0.00	676.15	SINGLE PUR NAV	1002
29	BAY RDGE RED HOOK CH NY	NAN	39.50	39.50	0.00	0.00	39.50	SINGLE PUR NAV	1040
29	BOSTON HBR MA	NED	71.77	71.77	0.00	0.00	71.77	SINGLE PUR NAV	1960
29	CAPE COD CNL MA	NED	7299.24	6587.90	711.34	0.00	6587.90	SINGLE PUR NAV	2620
29	CONN RVR BLW HARTFRD	NED	49.91	49.91	0.00	0.00	49.91	SINGLE PUR NAV	3760
29	DEL RVR BETWN PHILA TREN	NAP	3363.17	3363.17	0.00	0.00	3363.17	SINGLE PUR NAV	4550
29	DEL RVR PA NJ PHILA TO S	NAP	20586.48	20586.48	0.00	0.00	20586.48	SINGLE PUR NAV	4570
29	HUDSON R. CHANNEL, NY	NAN	-50.43	-50.43	0.00	0.00	-50.43	SINGLE PUR NAV	7800
29	HUDSON R NY TO ALB(MNT)	NAN	2391.90	2391.90	0.00	0.00	2391.90	SINGLE PUR NAV	7810
29	HUDSON R NY TO ALB(O&C)	NAN	1109.33	1109.33	0.00	0.00	1109.33	SINGLE PUR NAV	7820
29	IWW FM DEL R TO CHPKE B D	NAP	17690.73	17690.73	0.00	0.00	17690.73	SINGLE PUR NAV	8160
29	C&D CAN, ST GEORGES BR DE	NAP	14001.34	14001.34	0.00	0.00	14001.34	SINGLE PUR NAV	8215
29	7.5 MCY STANDBY TIME	NAP	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	8237
29	JAMES RVR VA	NAO	3945.26	3945.26	0.00	0.00	3945.26	SINGLE PUR NAV	8430
29	KENNEBEC RIVER ME	NED	10.39	10.39	0.00	0.00	10.39	SINGLE PUR NAV	8890
29	NEW HVN HBR CONN	NED	0.11	0.11	0.00	0.00	0.11	SINGLE PUR NAV	12380
29	NEW YORK HARBOR NY	NAN	6471.46	6471.46	0.00	0.00	6471.46	SINGLE PUR NAV	12490
29	NEW YORK HBR DRIFT, NY	NAN	4986.70	4986.70	0.00	0.00	4986.70	SINGLE PUR NAV	12500
29	NY NJ CHS NY NJ	NAN	77.24	77.24	0.00	0.00	77.24	SINGLE PUR NAV	12520
29	NWRK B HCKSAK PASS R NJ	NAN	365.26	365.26	0.00	0.00	365.26	SINGLE PUR NAV	12550
29	NORFOLK HBR CHS VA	NAO	6191.46	6191.46	0.00	0.00	6191.46	SINGLE PUR NAV	12801
29	PLYMOUTH HBR MA	NED	1.36	1.36	0.00	0.00	1.36	SINGLE PUR NAV	14200
29	POTOMAC R. DRIFT REMOVL VA	NAB	858.59	858.59	0.00	0.00	858.59	SINGLE PUR NAV	14520

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29	RARITAN RIVER NJ	NAN	-126.39	-126.39	0.00	0.00	-126.39	SINGLE PUR NAV	14860
29	HAMPTON ROADS PRE OF OBST	NAO	310.50	310.50	0.00	0.00	310.50	SINGLE PUR NAV	15170
29	SCHUYLKILL R PA	NAP	1916.71	1916.71	0.00	0.00	1916.71	SINGLE PUR NAV	16550
29	NY HABOR PREV OF OBSTRUCTN	NAN	709.43	709.43	0.00	0.00	709.43	SINGLE PUR NAV	17760
29	WASHINGTON HBR DC	NAB	35.05	35.05	0.00	0.00	35.05	SINGLE PUR NAV	19500
29	WILMINGTON HBR DEL	NAP	2057.04	2057.04	0.00	0.00	2057.04	SINGLE PUR NAV	20040
29	RTN R ARTHR KILL CUT C NJ	NAN	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	21870
29	COLD SPRNG INLET	NAP	520.16	520.16	0.00	0.00	520.16	SINGLE PUR NAV	22140
29	SALEM RIVER NJ	NAP	2.41	2.41	0.00	0.00	2.41	SINGLE PUR NAV	24950
29	BUTTERMILK CH NY	NAN	819.85	819.85	0.00	0.00	819.85	SINGLE PUR NAV	41015
29	EAST RIVER NY	NAN	84.38	84.38	0.00	0.00	84.38	SINGLE PUR NAV	41062
29	DEL RIV/PHIL TO CAMDEN NJ	NAP	24.30	24.30	0.00	0.00	24.30	SINGLE PUR NAV	43005
29	JAMAICA BAY NY	NAN	637.47	637.47	0.00	0.00	637.47	SINGLE PUR NAV	54000
29	PT JUDTH PND&HBR OF REF RI	NED	124.50	124.50	0.00	0.00	124.50	SINGLE PUR NAV	72611
29	BLOCK ISLAND HBR OF REF RI	NED	75.78	75.78	0.00	0.00	75.78	SINGLE PUR NAV	73445
29	CAPE CHARLES CITY HBR VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	73772
29	CH TO NEWPORT NEWS VA	NAO	947.23	947.23	0.00	0.00	947.23	SINGLE PUR NAV	73783
29	THIMBLE SHOAL CH VA	NAO	1205.10	1205.10	0.00	0.00	1205.10	SINGLE PUR NAV	73800
29	YORK RIVER VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	73803
29	C&D CAN BRIDGES MAJ REHAB	NAP	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	73836
29	BALTIMORE HBR & 50FT CHANN	NAB	8776.74	8776.74	0.00	0.00	8776.74	SINGLE PUR NAV	74955
29			112080.11	111368.77	711.34	0.00	111368.77		
30	BEAUFORT HBR NC	SAW	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	1210
30	BRUNSWICK HBR	SAS	3398.54	3398.54	0.00	0.00	3398.54	SINGLE PUR NAV	2080

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SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
30	CANAVERAL HARBOR FL	SAJ	2970.54	2970.54	0.00	0.00	2970.54	SINGLE PUR NAV	2520
30	CAPE FEAR R ABOVE WILM NC	SAW	415.10	273.60	141.50	0.00	273.60	SINGLE PUR NAV	2640
30	CHARLESTON HARBOR SC	SAC	3533.45	3533.45	0.00	0.00	3533.45	SINGLE PUR NAV	2980
30	FERNANDINA HARBOR FL	SAJ	1403.25	1403.25	0.00	0.00	1403.25	SINGLE PUR NAV	5840
30	FORT PIERCE HARBOR FL	SAJ	274.30	274.30	0.00	0.00	274.30	SINGLE PUR NAV	6260
30	GEORGETOWN HARBOR SC	SAC	2423.17	2423.17	0.00	0.00	2423.17	SINGLE PUR NAV	6480
30	CHAS HBR REDIVERSN FISH LF	SAC	331.60	331.60	0.00	0.00	331.60	SINGLE PUR NAV	8221
30	SAVANAH HBR LONG TRM MGT	SAS	9.84	9.84	0.00	0.00	9.84	SINGLE PUR NAV	8232
30	JACKSONVILLE HARBOR FL	SAJ	7742.50	7742.50	0.00	0.00	7742.50	SINGLE PUR NAV	8410
30	MOREHD CTY HBR NC	SAW	2313.10	2313.10	0.00	0.00	2313.10	SINGLE PUR NAV	11810
30	PALM BEACH HBR FL	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	13590
30	PALM BEACH HBR FL	SAJ	1613.62	1613.62	0.00	0.00	1613.62	SINGLE PUR NAV	13590
30	PORT ROYAL HARBOR SC	SAC	932.98	932.98	0.00	0.00	932.98	SINGLE PUR NAV	14380
30	SHIPYARD RVR SC	SAC	726.82	726.82	0.00	0.00	726.82	SINGLE PUR NAV	16730
30	WILMINGTON BW NC	SAW	7545.03	7545.03	0.00	0.00	7545.03	SINGLE PUR NAV	20030
30	COOPER R SC	SAC	2824.98	2808.98	16.00	0.00	2808.98	SINGLE PUR NAV	74354
30	MIAMI HBR FL	SAJ	188.11	188.11	0.00	0.00	188.11	SINGLE PUR NAV	74378
30	DARIEN HARBOR, GA	SAS	0.99	0.99	0.00	0.00	0.99	SINGLE PUR NAV	74576
30	SAVANNAH HBR	SAS	14092.57	14092.57	0.00	0.00	14092.57	SINGLE PUR NAV	75085
30	PORT EVERGLADES HBR FL	SAJ	47.67	47.67	0.00	0.00	47.67	SINGLE PUR NAV	76031
30			52788.16	52630.66	157.50	0.00	52630.66		
31	BELLINGHAM HBR WA	NPS	328.31	328.31	0.00	0.00	328.31	SINGLE PUR NAV	1310
31	EVERETT HBR SNOHOMISH RV	NPS	912.49	912.49	0.00	0.00	912.49	SINGLE PUR NAV	5700
31	LK WASHINGTON SHP CNL WA	NPS	6419.80	5904.50	515.30	0.00	5904.50	SINGLE PUR NAV	9400

TABLE 1D

DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
31	OLYMPIA HBR WA	NPS	16.22	16.22	0.00	0.00	16.22	SINGLE PUR NAV	13320
31	PUGET SOUND ITS TRIB WW	NPS	756.49	756.49	0.00	0.00	756.49	SINGLE PUR NAV	13970
31	FRIDAY HARBOR	NPS	70.82	70.82	0.00	0.00	70.82	SINGLE PUR NAV	24370
31	SEATTLE HBR WA	NPS	622.60	622.60	0.00	0.00	622.60	SINGLE PUR NAV	67318
31	TACOMA HBR WA	NPS	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	72902
31	LAKE CROCKETT WA	NPS	2.06	2.06	0.00	0.00	2.06	SINGLE PUR NAV	72920
31	EDIZ HOOK WA	NPS	5.32	5.32	0.00	0.00	5.32	SINGLE PUR NAV	79205
31	KENMORE NAVIGATION CH	NPS	95.53	95.53	0.00	0.00	95.53	SINGLE PUR NAV	87153
31			9229.64	8714.34	515.30	0.00	8714.34		
32	COLUMBIA R AT MOTH OR WA	NPP	6661.66	6661.66	0.00	0.00	6661.66	SINGLE PUR NAV	3600
32	COL R BTN VNCR DALLES OR	NPP	249.83	249.83	0.00	0.00	249.83	SINGLE PUR NAV	3620
32	COLMBA LWR WLMTE RVR OR	NPP	17041.83	17041.83	0.00	0.00	17041.83	SINGLE PUR NAV	3630
32	7.5 MCY STANDBY TIME	NPP	0.26	0.26	0.00	0.00	0.26	SINGLE PUR NAV	8238
32	SKIPANON CHANNEL OR	NPP	15.89	15.89	0.00	0.00	15.89	SINGLE PUR NAV	16930
32	BONNEVILLE LOCK DAM OR WA	NPP	19131.90	6761.80	12370.10	0.00	6761.80	MULTI W ALLOC	80546
32			43101.37	30731.27	12370.10	0.00	30731.27		
33	PORT SAN LUIS CA	SPL	0.80	0.80	0.00	0.00	0.80	SINGLE PUR NAV	232
33	COOS BAY OR	NPP	2635.31	2635.31	0.00	0.00	2635.31	SINGLE PUR NAV	3840
33	DANA POINT HARBOR CA	SPL	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	4430
33	GRAYS HBR WA	NPS	7560.15	7560.15	0.00	0.00	7560.15	SINGLE PUR NAV	6770
33	HUMBOLDT HBR BAY CA	SPN	2600.45	2600.45	0.00	0.00	2600.45	SINGLE PUR NAV	7860
33	MORRO BAY HBR CA	SPL	1672.07	1672.07	0.00	0.00	1672.07	SINGLE PUR NAV	11860
33	MOSS LANDING HBR CA	SPN	778.98	778.98	0.00	0.00	778.98	SINGLE PUR NAV	11880

TABLE 1D

DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
33	OCEANSIDE HBR CA	SPL	317.66	317.66	0.00	0.00	317.66	SINGLE PUR NAV	13080
33	OCEANSIDE HBR SAND-BY-PASS	SPL	655.22	655.22	0.00	0.00	655.22	SINGLE PUR NAV	13085
33	CH IS HBR CA	SPL	1875.33	1875.33	0.00	0.00	1875.33	SINGLE PUR NAV	14360
33	PORT ORFORD OR	NPP	465.94	465.94	0.00	0.00	465.94	SINGLE PUR NAV	14370
33	SANTA BARBARA HBR CA	SPL	1543.58	1543.58	0.00	0.00	1543.58	SINGLE PUR NAV	15730
33	SAN DIEGO-MISSION BAY CA	SPL	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	15750
33	SAN DIEGO HBR CA	SPL	650.46	650.46	0.00	0.00	650.46	SINGLE PUR NAV	16110
33	SIUSLAW RIVER OR	NPP	394.96	394.96	0.00	0.00	394.96	SINGLE PUR NAV	16860
33	TILLAMOOK BAY BAR OR	NPP	7.21	7.21	0.00	0.00	7.21	SINGLE PUR NAV	18230
33	UMPQUA RIVER OR	NPP	707.81	707.81	0.00	0.00	707.81	SINGLE PUR NAV	18750
33	WILLAPA HBR	NPS	137.33	137.33	0.00	0.00	137.33	SINGLE PUR NAV	19990
33	YAQUINA BAY HBR OR	NPP	1725.48	1725.48	0.00	0.00	1725.48	SINGLE PUR NAV	20290
33	VENTURA HBR CA	SPL	1968.56	1968.56	0.00	0.00	1968.56	SINGLE PUR NAV	24190
33	MARINA DEL REY CA	SPL	1177.23	1177.23	0.00	0.00	1177.23	SINGLE PUR NAV	37690
33	PT HUENEME CA	SPL	68.03	68.03	0.00	0.00	68.03	SINGLE PUR NAV	74656
33	L A AND LONG BEACH HBRS CA	SPL	1001.05	1001.05	0.00	0.00	1001.05	SINGLE PUR NAV	74719
33	NEWPORT HARBOR CA	SPL	140.68	140.68	0.00	0.00	140.68	SINGLE PUR NAV	74720
33	REDONDO BEACH KING HBR CA	SPL	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	74722
33	LA-LB HARBOR MODEL, CA	SPL	205.60	205.60	0.00	0.00	205.60	SINGLE PUR NAV	76101
33			28289.89	28289.89	0.00	0.00	28289.89		
34	OAKLAND HBR CA	SPN	733.08	733.08	0.00	0.00	733.08	SINGLE PUR NAV	12990
34	REDWOOD CITY HBR CA	SPN	4700.00	4700.00	0.00	0.00	4700.00	SINGLE PUR NAV	15100
34	RICHMOND HBR CA	SPN	2264.24	2264.24	0.00	0.00	2264.24	SINGLE PUR NAV	15280
34	SACRAMENTO RVR CA	SPK	1312.12	1312.12	0.00	0.00	1312.12	SINGLE PUR NAV	15870

TABLE 1D

DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
34	SAN FRANCISCO HBR CA	SPN	2080.35	2080.35	0.00	0.00	2080.35	SINGLE PUR NAV	16130
34	SAN FRANCISCO HBR DRFT REM	SPN	2066.07	2066.07	0.00	0.00	2066.07	SINGLE PUR NAV	16140
34	SAN JOAQUIN RVR CA	SPK	822.85	822.85	0.00	0.00	822.85	SINGLE PUR NAV	16180
34	S PABLO BAY MRE IS STR CA	SPN	299.91	299.91	0.00	0.00	299.91	SINGLE PUR NAV	16230
34	SUISUN BAY CHANNEL CA	SPN	960.82	960.82	0.00	0.00	960.82	SINGLE PUR NAV	17720
34	NAPA RVR CA	SPN	35.37	35.37	0.00	0.00	35.37	SINGLE PUR NAV	74703
34	S FRANCISCO BAY DLT MDL CA	SPN	2609.75	1599.75	1010.00	0.00	1599.75	SINGLE PUR NAV	76029
34	SF BAY LONG TERM MGT STRAT	SPN	711.44	711.44	0.00	0.00	711.44	SINGLE PUR NAV	88920
34			18596.00	17586.00	1010.00	0.00	17586.00		
35	ST PAUL HARBOR AK	NPA	-0.50	-0.50	0.00	0.00	-0.50	SINGLE PUR NAV	10169
35			-0.50	-0.50	0.00	0.00	-0.50		
36	ANCHORAGE HBR AK	NPA	1494.19	1494.19	0.00	0.00	1494.19	SINGLE PUR NAV	360
36	SEWARD HARBOR, OR	NPA	209.01	209.01	0.00	0.00	209.01	SINGLE PUR NAV	72765
36	HOMER HBR AK	NPA	186.66	186.66	0.00	0.00	186.66	SINGLE PUR NAV	80508
36			1889.86	1889.86	0.00	0.00	1889.86		
37	THOMAS BASIN (KETCHIKAN)	NPA	264.22	264.22	0.00	0.00	264.22	SINGLE PUR NAV	631
37	CRESCENT BAY HARBOR, AK	NPA	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	16840
37	WRANGELL NARROWS AK	NPA	-7.05	-7.05	0.00	0.00	-7.05	SINGLE PUR NAV	65015
37	KETCHIKAN BAR PT HBR, AK	NPA	136.59	136.59	0.00	0.00	136.59	SINGLE PUR NAV	87071
37			393.76	393.76	0.00	0.00	393.76		
38	HONOLULU HBR HI	POD	8.74	8.74	0.00	0.00	8.74	SINGLE PUR NAV	7660

TABLE 1D

DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
38	OFU HBR SAMOA	POD	0.63	0.63	0.00	0.00	0.63	SINGLE PUR NAV	87038
38			9.37	9.37	0.00	0.00	9.37		
39	SAN JUAN HBR PR	SAJ	44.28	44.28	0.00	0.00	44.28	SINGLE PUR NAV	16190
39	ARECIBO HBR PR	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	20500
39	MAYAGUEZ HBR PR	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	22280
39	PONCE HBR PR	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	75007
39			44.28	44.28	0.00	0.00	44.28		
	GRAND TOTAL		482877.7	461344.49	17554.84	3778.4	461722.33		

APPENDIX B - Shallow Draft Navigation Projects Not Subject to the Inland Waterway Fuel Tax, Navigation Cost Recovery Analysis by Segment, O&M Expenditures for FY 1996 (Actual).

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
1	MINNESOTA RIVER MN	NCS	264.03	264.03	0.00	0.00	264.03	SINGLE PUR NAV	11310
1	DAVENPORT SMALL BOAT HBR	NCR	4.94	4.94	0.00	0.00	4.94	SINGLE PUR NAV	74041
1	ANDALUSIA HBR, IL	NCR	42.07	42.07	0.00	0.00	42.07	SINGLE PUR NAV	74228
1	MUSCATINE HBR	NCS	16.00	16.00	0.00	0.00	16.00	SINGLE PUR NAV	74251
1	ST. PAUL SML BT HBR, MN	NCS	45.00	45.00	0.00	0.00	45.00	SINGLE PUR NAV	88807
1	RED WING COMMERCIAL HBR	NCS	16.84	16.84	0.00	0.00	16.84	SINGLE PUR NAV	88809
1	WINONA SMALL BOAT HBR	NCS	23.00	23.00	0.00	0.00	23.00	SINGLE PUR NAV	88816
1	ROCK ISLAND SM BOAT HARBOR	NCR	65.97	65.97	0.00	0.00	65.97	SINGLE PUR NAV	88825
1	FORT MADISON HAEBOR, IA	NCR	72.21	72.21	0.00	0.00	72.21	SINGLE PUR NAV	88828
1			550.06	550.06	0.00	0.00	550.06		
2	SOUTHEAST MO PORT,MS R, MO	LMS	271.45	271.45	0.00	0.00	271.45	SINGLE PUR NAV	87404
2			271.45	271.45	0.00	0.00	271.45		
3	MOUTH OF YAZOO RIVER, MS	LMK	147.31	147.31	0.00	0.00	147.31	SINGLE PUR NAV	493
3	HELENA HBR AR	LMM	217.92	217.92	0.00	0.00	217.92	SINGLE PUR NAV	7440
3	HELENA HBR AR	LMM	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	7440
3	LAKE PROVIDENCE HBR LA	LMK	203.92	203.92	0.00	0.00	203.92	SINGLE PUR NAV	9360
3	OSCEOLA HBR AR	LMM	408.32	408.32	0.00	0.00	408.32	SINGLE PUR NAV	13430
3	WOLF RVR HBR TN	LMM	314.59	314.59	0.00	0.00	314.59	SINGLE PUR NAV	20150
3	YAZOO RIVER MS	LMK	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	20350
3	STAHR HBR, HICKMAN PORT	LMM	302.37	302.37	0.00	0.00	302.37	SINGLE PUR NAV	22020
3	NEW MADRID HBR MO	LMM	167.69	167.69	0.00	0.00	167.69	SINGLE PUR NAV	33012
3	ROSEDALE HBR MS	LMK	142.44	142.44	0.00	0.00	142.44	SINGLE PUR NAV	87072
3	CARUTHERSVILLE HBR MO	LMM	155.10	155.10	0.00	0.00	155.10	SINGLE PUR NAV	87092

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
3	MADISON PARISH PORT	LMK	40.00	40.00	0.00	0.00	40.00	SINGLE PUR NAV	87168
3	CLAIBORNE CO PORT MS	LMK	133.50	133.50	0.00	0.00	133.50	SINGLE PUR NAV	87249
3	YELLOW BEND PORT, AR	LMK	31.63	31.63	0.00	0.00	31.63	SINGLE PUR NAV	87282
3	MR&T-MCKELLER LK HBR	LMV	1930.00	1930.00	0.00	0.00	1930.00	SINGLE PUR NAV	99981
3	MR&T-GREENVILLE HBR	LMV	170.00	170.00	0.00	0.00	170.00	SINGLE PUR NAV	99982
3	MR&T-VICKSBURG HBR	LMV	209.00	209.00	0.00	0.00	209.00	SINGLE PUR NAV	99983
3	MR&T-BATON ROUGE HBR	LMV	405.00	405.00	0.00	0.00	405.00	SINGLE PUR NAV	99984
3			4978.79	4978.79	0.00	0.00	4978.79		
4	BAYOU SEGNETTE WWY, LA	LMN	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	24
4	MISS R OUTLTS VENICE LA	LMN	1870.38	1870.38	0.00	0.00	1870.38	SINGLE PUR NAV	63
4	WW IWW TO BAYOU DULAC LA	LMN	18.52	18.52	0.00	0.00	18.52	SINGLE PUR NAV	188
4	TICKFAW & NATALBANY	LMN	1.40	1.40	0.00	0.00	1.40	SINGLE PUR NAV	201
4	WW FM EMPIRE TO GULF LA	LMN	63.23	63.23	0.00	0.00	63.23	SINGLE PUR NAV	202
4	BARATARIA BAY WW LA	LMN	2141.88	2141.88	0.00	0.00	2141.88	SINGLE PUR NAV	900
4	BAYOU TECH LA	LMN	173.77	173.77	0.00	0.00	173.77	SINGLE PUR NAV	1150
4	BAYOU TECH VERMILLION R LA	LMN	58.58	58.58	0.00	0.00	58.58	SINGLE PUR NAV	1160
4	BENBROOK LAKE TX	SWF	1733.20	117.30	1615.90	0.00	117.30	MULTI W ALLOC	1350
4	BYU LAFOURCHE & JUMP WW,LA	LMN	8.66	8.66	0.00	0.00	8.66	SINGLE PUR NAV	2310
4	CEDAR BAYOU TX	SWG	626.82	626.82	0.00	0.00	626.82	SINGLE PUR NAV	2810
4	FRESHWATER BAYOU LA	LMN	1664.40	1664.40	0.00	0.00	1664.40	SINGLE PUR NAV	6200
4	GRAPEVINE LAKE TX	SWF	1950.00	19.90	1930.10	0.00	19.90	MULTI W ALLOC	6760
4	TRINITY RIVER, TX	SWG	701.70	701.70	0.00	0.00	701.70	SINGLE PUR NAV	18510
4	PETIT ANSE,TIGRE,CARLIN BY	LMN	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	22390
4			11012.54	7466.54	3546.00	0.00	7466.54		

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000) FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
5	BAYOU LACOMBE	LMN	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	158
5	APALACHICOLA BAY FL	SAM	93.33	93.33	0.00	0.00	93.33	SINGLE PUR NAV	430
5	JOHNS PASS, PINELLAS, FL	SAJ	56.15	56.15	0.00	0.00	56.15	SINGLE PUR NAV	1001
5	BILOXI HBR MS	SAM	284.01	284.01	0.00	0.00	284.01	SINGLE PUR NAV	1520
5	IWW CLCHEE R TO ANLTE R F	SAJ	60.68	60.68	0.00	0.00	60.68	SINGLE PUR NAV	2480
5	CLEARWATER PASS FL	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	3400
5	DAUPHIN ISLE BAY AL	SAM	250.15	250.15	0.00	0.00	250.15	SINGLE PUR NAV	4480
5	EAST PASS CHANNEL FL	SAM	1038.91	1038.91	0.00	0.00	1038.91	SINGLE PUR NAV	4980
5	ESCAMBIA-CONECUH RV FL AL	SAM	0.20	0.20	0.00	0.00	0.20	SINGLE PUR NAV	5620
5	FLY CREEK AL	SAM	102.11	102.11	0.00	0.00	102.11	SINGLE PUR NAV	5970
5	FORT MYERS BEACH FL	SAJ	0.50	0.50	0.00	0.00	0.50	SINGLE PUR NAV	6220
5	PANACEA HBR FL	SAM	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	7510
5	LA GRANGE BAYOU FL	SAM	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	9280
5	CH, NAPLES-BIG MARCO FL	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	12150
5	OKEECHOBEE WWY, FL	SAJ	4649.20	3765.20	884.00	0.00	3765.20	SINGLE PUR NAV	13240
5	PERDIDO PASS CH AL	SAM	30.41	30.41	0.00	0.00	30.41	SINGLE PUR NAV	13880
5	TANGIPOHOA RV LA	LMN	57.32	57.32	0.00	0.00	57.32	SINGLE PUR NAV	17970
5	WOLF & JORDAN RVRS, MS	SAM	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	20160
5	CADET BAYOU MS	SAM	301.33	301.33	0.00	0.00	301.33	SINGLE PUR NAV	20600
5	DOG AND FOWL RIVERS, AL	SAM	676.10	676.10	0.00	0.00	676.10	SINGLE PUR NAV	20710
5	LONGBOAT PASS FL	SAJ	10.94	10.94	0.00	0.00	10.94	SINGLE PUR NAV	23100
5	BLACKWATER RVR FL	SAM	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	23230
5	SUWANEE RIVER, FL	SAJ	0.13	0.13	0.00	0.00	0.13	SINGLE PUR NAV	74391
5	WITHLACOOCHIE RIVER	SAJ	38.46	38.46	0.00	0.00	38.46	SINGLE PUR NAV	74393

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
5	ANCLOTE RIVER, FL	SAJ	4.02	4.02	0.00	0.00	4.02	SINGLE PUR NAV	74478
5	NEW PASS SARASOTA FL	SAJ	95.27	95.27	0.00	0.00	95.27	SINGLE PUR NAV	74483
5	CRYSTAL RIVER, FL	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	74488
5	HORSESHOE COVE, FL	SAJ	99.04	99.04	0.00	0.00	99.04	SINGLE PUR NAV	74495
5	STEINHATCHEE RIVER, FL	SAJ	-0.70	-0.70	0.00	0.00	-0.70	SINGLE PUR NAV	74508
5	BAYOU CODEN AL	SAM	12.31	12.31	0.00	0.00	12.31	SINGLE PUR NAV	74520
5	ST MARKS R FL	SAM	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	74542
5	PASS CHRISTIAN HBR MS	SAM	66.59	66.59	0.00	0.00	66.59	SINGLE PUR NAV	74564
5	BON SECOUR RVR AL	SAM	35.48	35.48	0.00	0.00	35.48	SINGLE PUR NAV	76060
5	CEDAR ISLAND KEATON BCH FL	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	87215
5			7961.94	7077.94	884.00	0.00	7077.94		
13	LICKING RIVER OPEN CHANNEL	ORL	10.66	10.66	0.00	0.00	10.66	SINGLE PUR NAV	10220
13	PORTSMOUTH HARBOR	ORH	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	10221
13	BIG SANDY HARBOR	ORH	1060.34	1060.34	0.00	0.00	1060.34	SINGLE PUR NAV	10222
13	ELK RIVER HARBOR	ORH	0.60	0.60	0.00	0.00	0.60	SINGLE PUR NAV	88833
13			1071.60	1071.60	0.00	0.00	1071.60		
20	CADDO LAKE LA TX	LMK	127.50	0.00	62.90	64.60	6.46	MULTI WO ALLOC	2330
20			127.50	0.00	62.90	64.60	6.46		
24	IRONDEQUOIT BAY, NY	NCB	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	8220
24	OAK ORCHARD HBR NY	NCB	0.18	0.18	0.00	0.00	0.18	SINGLE PUR NAV	12980
24	OLCOTT HBR NY	NCB	4.23	4.23	0.00	0.00	4.23	SINGLE PUR NAV	44066
24	WILSON HBR NY	NCB	0.23	0.23	0.00	0.00	0.23	SINGLE PUR NAV	73938

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000) FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
24	WEST HBR, OH	NCB	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	74025
24			4.64	4.64	0.00	0.00	4.64		
25	CLINTON RIV MI	NCB	2.95	2.95	0.00	0.00	2.95	SINGLE PUR NAV	3490
25	PORT CLINTON HBR OH	NCB	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	21540
25	VERMILLION HBR OH	NCB	158.71	158.71	0.00	0.00	158.71	SINGLE PUR NAV	44003
25	ROCKY R HBR OH	NCB	62.45	62.45	0.00	0.00	62.45	SINGLE PUR NAV	44072
25	CATTARAUGUS CRK NY	NCB	5.50	5.50	0.00	0.00	5.50	SINGLE PUR NAV	73920
25	STURGEON POINT, NY	NCB	66.40	66.40	0.00	0.00	66.40	SINGLE PUR NAV	87433
25	BOLLES HARBOR MI	NCE	29.58	29.58	0.00	0.00	29.58	SINGLE PUR NAV	87750
25			325.59	325.59	0.00	0.00	325.59		
26	PT LOOKOUT HBR MI	NCE	2.38	2.38	0.00	0.00	2.38	SINGLE PUR NAV	14220
26	PORT SANILAC HBR MIT SHR D	NCE	61.26	61.26	0.00	0.00	61.26	SINGLE PUR NAV	14410
26	PORT SANILAC HBR MI	NCE	137.50	137.50	0.00	0.00	137.50	SINGLE PUR NAV	46039
26	INLAND ROUTE MICHIGAN	NCE	38.18	38.18	0.00	0.00	38.18	SINGLE PUR NAV	48140
26	HARRISVILLE HARBOR MI	NCE	-0.40	-0.40	0.00	0.00	-0.40	SINGLE PUR NAV	53550
26	LEXINGTON HBR MIT SHR DAM	NCE	97.00	97.00	0.00	0.00	97.00	SINGLE PUR NAV	73909
26	LEXINGTON HARBOR MI	NCE	178.32	178.32	0.00	0.00	178.32	SINGLE PUR NAV	74006
26	TAWAS BAY HARBOR, MI	NCE	0.90	0.90	0.00	0.00	0.90	SINGLE PUR NAV	74019
26	CASEVILLE HARBOR MI	NCE	221.72	221.72	0.00	0.00	221.72	SINGLE PUR NAV	74199
26	HAMMOND BAY HBR MI	NCE	0.14	0.14	0.00	0.00	0.14	SINGLE PUR NAV	74208
26	PT AUSTIN HBR MI	NCE	0.13	0.13	0.00	0.00	0.13	SINGLE PUR NAV	74213
26	SEBEWAING RIVER MI	NCE	467.91	467.91	0.00	0.00	467.91	SINGLE PUR NAV	76061
26	BAY PORT HARBOR, MI	NCE	0.43	0.43	0.00	0.00	0.43	SINGLE PUR NAV	76062

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000) FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
26			1205.47	1205.47	0.00	0.00	1205.47		
27	BIG SUAMICO HARBOR	NCE	0.20	0.20	0.00	0.00	0.20	SINGLE PUR NAV	612
27	NEW BUFFALO HBR MI	NCE	359.89	359.89	0.00	0.00	359.89	SINGLE PUR NAV	1020
27	FOX RIVER WI	NCE	2117.30	2117.30	0.00	0.00	2117.30	SINGLE PUR NAV	6610
27	GRAND TRAVERSE HBR MI	NCE	3.57	3.57	0.00	0.00	3.57	SINGLE PUR NAV	6730
27	LAKE MICHIGAN DIVERSION,IL	NCC	406.31	406.31	0.00	0.00	406.31	SINGLE PUR NAV	8218
27	SAUGATUCK HBR MI	NCE	220.81	220.81	0.00	0.00	220.81	SINGLE PUR NAV	16390
27	SOUTH HAVEN HBR MI	NCE	1.70	1.70	0.00	0.00	1.70	SINGLE PUR NAV	17180
27	SOUTH HAVEN HBR MIT SHR DM	NCE	0.04	0.04	0.00	0.00	0.04	SINGLE PUR NAV	17181
27	LELAND HBR MI	NCE	288.80	288.80	0.00	0.00	288.80	SINGLE PUR NAV	46018
27	ARCADIA HBR MI	NCE	124.33	124.33	0.00	0.00	124.33	SINGLE PUR NAV	46063
27	GREILICKVILLE HARBOR, MI	NCE	18.67	18.67	0.00	0.00	18.67	SINGLE PUR NAV	46103
27	ALGOMA HARBOR WI	NCE	205.74	205.74	0.00	0.00	205.74	SINGLE PUR NAV	74177
27	PENSAUKEE HBR WI	NCE	0.03	0.03	0.00	0.00	0.03	SINGLE PUR NAV	74189
27	BURNS WATER WAY SBH	NCC	137.50	137.50	0.00	0.00	137.50	SINGLE PUR NAV	87387
27			3884.89	3884.89	0.00	0.00	3884.89		
28	BIG BAY HBR MI	NCE	0.50	0.50	0.00	0.00	0.50	SINGLE PUR NAV	1410
28	BLACK R UPR PEN	NCE	1.24	1.24	0.00	0.00	1.24	SINGLE PUR NAV	1640
28	CORNUCOPIA HBR WI	NCE	4.98	4.98	0.00	0.00	4.98	SINGLE PUR NAV	3970
28	LAC LA BELLE HBR MI	NCE	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	9210
28	LITTLE LAKE HBR MI	NCE	69.24	69.24	0.00	0.00	69.24	SINGLE PUR NAV	9890
28	SAXON HBR WI	NCE	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	16500
28	EAGLE HBR MI	NCE	4.00	4.00	0.00	0.00	4.00	SINGLE PUR NAV	22870

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
28	WARROAD HBR MN	NCS	233.46	233.46	0.00	0.00	233.46	SINGLE PUR NAV	48011
28	ZIPPEL BAY SM BOAT HBR, MN	NCS	0.06	0.06	0.00	0.00	0.06	SINGLE PUR NAV	87343
28			313.48	313.48	0.00	0.00	313.48		
29	GUILFORD HBR CT	NED	0.19	0.19	0.00	0.00	0.19	SINGLE PUR NAV	231
29	CRIEHAVEN HBR ME	NED	79.13	79.13	0.00	0.00	79.13	SINGLE PUR NAV	339
29	UNION RIVER,ME	NED	19.99	19.99	0.00	0.00	199.99	SINGLE PUR NAV	387
29	CUTTYHUNK HBR MA	NED	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	409
29	HYANNIS HBR MA	NED	53.00	53.00	0.00	0.00	53.00	SINGLE PUR NAV	421
29	ROCKPORT HBR MA	NED	6.15	6.15	0.00	0.00	6.15	SINGLE PUR NAV	438
29	WELLFLEET HBR MA	NED	-0.08	-0.08	0.00	0.00	-0.08	SINGLE PUR NAV	452
29	LITTLE HARBOR, NH	NED	22.82	22.82	0.00	0.00	22.82	SINGLE PUR NAV	509
29	BULLOCKS PT CVE RI	NED	-8.80	-8.80	0.00	0.00	-8.80	SINGLE PUR NAV	556
29	LITTLE NARRAGANSETT BAY	NED	174.95	174.95	0.00	0.00	174.95	SINGLE PUR NAV	562
29	BROAD CREEK VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	582
29	CRANES CREEK VA	NAO	119.95	119.95	0.00	0.00	119.95	SINGLE PUR NAV	585
29	MONROE BAY CK VA	NAB	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	592
29	WHITINGS CREEK , MIDDLE	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	605
29	GREENVALE CK, LANE CO, VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	780
29	QUEENS CREEK VA	NAO	161.68	161.68	0.00	0.00	161.68	SINGLE PUR NAV	795
29	BARNEGAT INLET NJ	NAP	1211.58	1211.58	0.00	0.00	1211.58	SINGLE PUR NAV	950
29	COHANSEY RIVER NJ	NAP	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	3540
29	COHASSET HBR MA	NED	16.89	16.89	0.00	0.00	16.89	SINGLE PUR NAV	3560
29	DUXBURY HBR MA	NED	763.90	763.90	0.00	0.00	763.90	SINGLE PUR NAV	5080
29	E ROCKAWAY INLET NY	NAN	2733.54	2733.54	0.00	0.00	2733.54	SINGLE PUR NAV	5220

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
29	CHINCOTEAGUE HBR REFG VA	NAO	9.99	9.99	0.00	0.00	9.99	SINGLE PUR NAV	5841
29	FIRE I INLT TO JONES NY	NAN	250.17	250.17	0.00	0.00	250.17	MULTI WO ALLOC	5880
29	FIVE MILE RIVER, CT	NED	117.90	117.90	0.00	0.00	117.90	SINGLE PUR NAV	5910
29	GREEN HBR MA	NED	229.08	229.08	0.00	0.00	229.08	SINGLE PUR NAV	6920
29	INDIAN RVR INLET BAY DEL	NAP	477.72	477.72	0.00	0.00	477.72	SINGLE PUR NAV	8110
29	IWW REHOBOTH BAY TO DELA	NAP	154.23	154.23	0.00	0.00	154.23	SINGLE PUR NAV	8170
29	NJ IWW	NAP	2507.44	2507.44	0.00	0.00	2507.44	SINGLE PUR NAV	8190
29	SESUIT HBR	NED	132.59	132.59	0.00	0.00	132.59	SINGLE PUR NAV	8193
29	KENNEBUNK RVR ME	NED	35.84	35.84	0.00	0.00	35.84	SINGLE PUR NAV	8900
29	KEYPORT HBR NJ	NAN	0.49	0.49	0.00	0.00	0.49	SINGLE PUR NAV	8980
29	LAKE MONTAUK HBR NY	NAN	960.53	960.53	0.00	0.00	960.53	SINGLE PUR NAV	9340
29	LITTLE WICOMICO RVR VA	NAB	37.00	37.00	0.00	0.00	37.00	SINGLE PUR NAV	9980
29	LYNNHAVEN INLET VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	10310
29	MATAWAN CREEK NJ	NAN	0.80	0.80	0.00	0.00	0.80	SINGLE PUR NAV	10410
29	MANASQUAN RVR NJ	NAP	324.94	324.94	0.00	0.00	324.94	SINGLE PUR NAV	10450
29	CHINCOTEAGUE BAY VA	NAO	11.73	11.73	0.00	0.00	11.73	SINGLE PUR NAV	10890
29	MILTON HBR NY	NAN	0.03	0.03	0.00	0.00	0.03	SINGLE PUR NAV	11250
29	MURDERKILL RVR	NAP	39.19	39.19	0.00	0.00	39.19	SINGLE PUR NAV	12020
29	NRWS LKE CHAMPLAIN NY VT	NAN	46.33	46.33	0.00	0.00	46.33	SINGLE PUR NAV	12200
29	QUINBY CRK VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	14770
29	RAPPAHANNOCK R VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	14850
29	ROYAL RVR ME	NED	194.84	194.84	0.00	0.00	194.84	SINGLE PUR NAV	15640
29	SACO RVR ME	NED	0.19	0.19	0.00	0.00	0.19	SINGLE PUR NAV	15860
29	SHREWSBURY RVR NJ	NAN	611.26	611.26	0.00	0.00	611.26	SINGLE PUR NAV	16780
29	TUCKERTON CREEK	NAP	5.83	5.83	0.00	0.00	5.83	SINGLE PUR NAV	18580

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
29	WW COAST OF VA	NAO	1371.59	1371.59	0.00	0.00	1371.59	SINGLE PUR NAV	19550
29	HOSKINS CREEK, VA	NAO	324.79	324.79	0.00	0.00	324.79	SINGLE PUR NAV	20920
29	NEWPORT NEWS CREEK	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	21640
29	SCARBORO RIVER, ME	NED	36.24	36.24	0.00	0.00	36.24	SINGLE PUR NAV	21800
29	HONGA R TAR BAY MD	NAB	715.48	715.48	0.00	0.00	715.48	SINGLE PUR NAV	22690
29	NORTHEAST RVR MD	NAB	27.74	27.74	0.00	0.00	27.74	SINGLE PUR NAV	27009
29	BLACKWATER RIVER, VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	27028
29	TANGIER CHANNEL VA	NAO	529.10	529.10	0.00	0.00	529.10	SINGLE PUR NAV	27650
29	APPOMATTOX RIVER VA	NAO	54.81	54.81	0.00	0.00	54.81	SINGLE PUR NAV	30580
29	CHATHAM HBR MA	NED	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	39001
29	NEWBURYPORT HBR MA	NED	338.83	338.83	0.00	0.00	338.83	SINGLE PUR NAV	39018
29	WELLS HBR ME	NED	32.17	32.17	0.00	0.00	32.17	SINGLE PUR NAV	39023
29	JOSIAS R ME	NED	1.91	1.91	0.00	0.00	1.91	SINGLE PUR NAV	39054
29	HAMPTON HBR NH	NED	3.05	3.05	0.00	0.00	3.05	SINGLE PUR NAV	39063
29	SCITUATE HARBOR, MA	NED	438.69	438.69	0.00	0.00	438.69	SINGLE PUR NAV	39065
29	MUDDY HOOK/TYLER COVES MD	NAB	9.47	9.47	0.00	0.00	9.47	SINGLE PUR NAV	40025
29	TILGHMAN IS HBR MD	NAB	36.83	36.83	0.00	0.00	36.83	SINGLE PUR NAV	40108
29	WESTCHESTER CK NY	NAN	39.94	39.94	0.00	0.00	39.94	SINGLE PUR NAV	41003
29	EAST CHESTER CRK NY	NAN	39.63	39.63	0.00	0.00	39.63	SINGLE PUR NAV	41004
29	JONES INLT NY	NAN	4620.10	4620.10	0.00	0.00	4620.10	SINGLE PUR NAV	41006
29	SHARK RVR NJ	NAN	70.41	70.41	0.00	0.00	70.41	SINGLE PUR NAV	41007
29	BROWN CK NY	NAN	0.33	0.33	0.00	0.00	0.33	SINGLE PUR NAV	41022
29	SHOAL HBR CMPTN CK NJ	NAN	113.39	113.39	0.00	0.00	113.39	SINGLE PUR NAV	41035
29	BRONX RVR NY	NAN	39.33	39.33	0.00	0.00	39.33	SINGLE PUR NAV	41057
29	MATTITUCK HBR NY	NAN	1003.18	1003.18	0.00	0.00	1003.18	SINGLE PUR NAV	41082

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000) FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
29	STARLINGS CREEK VA	NAO	244.28	244.28	0.00	0.00	244.28	SINGLE PUR NAV	42001
29	CRISFIELD HBR MD	NAB	35.54	35.54	0.00	0.00	35.54	SINGLE PUR NAV	51950
29	HERRING CK TALL TIMBERS MD	NAB	35.73	35.73	0.00	0.00	35.73	SINGLE PUR NAV	62011
29	YORK HARBOR, ME	NED	585.59	585.59	0.00	0.00	585.59	SINGLE PUR NAV	72501
29	NEABSCO CK VA	NAB	35.85	35.85	0.00	0.00	35.85	SINGLE PUR NAV	73542
29	NANTICOKE RV DE MD	NAB	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	73549
29	BROAD CK MD	NAB	139.83	139.83	0.00	0.00	139.83	SINGLE PUR NAV	73554
29	CHESTER RVR MD	NAB	63.45	63.45	0.00	0.00	63.45	SINGLE PUR NAV	73557
29	NANTICOKE AT NANTICOKE	NAB	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	73564
29	OCEAN CTY HBR SNPXENT BY	NAB	125.28	125.28	0.00	0.00	125.28	SINGLE PUR NAV	73567
29	POCOMOKE RIVER MD	NAB	0.57	0.57	0.00	0.00	0.57	SINGLE PUR NAV	73570
29	RHODES PT TO TYLERTON MD	NAB	-38.95	-38.95	0.00	0.00	-38.95	SINGLE PUR NAV	73574
29	FISHING BAY MD	NAB	67.34	67.34	0.00	0.00	67.34	SINGLE PUR NAV	73583
29	FISHING CK MD	NAB	20.21	20.21	0.00	0.00	20.21	SINGLE PUR NAV	73584
29	HERRING B ROCKHD CK MD	NAB	0.10	0.10	0.00	0.00	0.10	SINGLE PUR NAV	73585
29	ISLAND CK ST. GEO IS MD	NAB	0.91	0.91	0.00	0.00	0.91	SINGLE PUR NAV	73588
29	KNAPPS NARROWS	NAB	404.50	404.50	0.00	0.00	404.50	SINGLE PUR NAV	73589
29	TRED AVON RVR MD	NAB	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	73600
29	TWITCH CV THOROFARE R MD	NAB	115.05	115.05	0.00	0.00	115.05	SINGLE PUR NAV	73602
29	WICOMICO RVR MD	NAB	123.46	123.46	0.00	0.00	123.46	SINGLE PUR NAV	73606
29	ANACOSTIA RVR BASIN DC M	NAB	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	73608
29	CHEESEQUAKE CREEK, NJ	NAN	10.80	10.80	0.00	0.00	10.80	SINGLE PUR NAV	73626
29	SHINNECOCK INLET NY	NAN	49.75	49.75	0.00	0.00	49.75	SINGLE PUR NAV	73644
29	GLEN COVE CRK NY	NAN	437.74	437.74	0.00	0.00	437.74	SINGLE PUR NAV	73686
29	RONDOUT HARBOR NY	NAN	0.23	0.23	0.00	0.00	0.23	SINGLE PUR NAV	73705

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
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FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
29	BURLINGTON HARBOR, VT	NAN	0.49	0.49	0.00	0.00	0.49	SINGLE PUR NAV	73727
29	PORT CHESTER HBR NY	NAN	44.60	44.60	0.00	0.00	44.60	SINGLE PUR NAV	73747
29	HORN HARBOR, VA	NAO	9.26	9.26	0.00	0.00	9.26	SINGLE PUR NAV	73776
29	LAFAYETTE RIVER, VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	73778
29	NANSEMOND RIVER VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	73784
29	NOTTOWAY RIVER	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	73789
29	OYSTER CREEK VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	73792
29	PAGAN RIVER, VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	73793
29	WILLOUGHBY CHANNEL, VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	73801
29	WINTER HARBOR VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	73802
29	MAURICE RIVER NJ	NAP	617.93	617.93	0.00	0.00	617.93	SINGLE PUR NAV	73841
29	MISPILLION RVR DEL	NAP	-2.17	-2.17	0.00	0.00	-2.17	SINGLE PUR NAV	73857
29	RACCOON CRK NJ	NAP	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	73892
29	TOMS RIVER, NJ	NAP	1.68	1.68	0.00	0.00	1.68	SINGLE PUR NAV	73894
29	DEEP CR NEWPORT NEWS VA	NAO	594.47	594.47	0.00	0.00	594.47	SINGLE PUR NAV	75117
29	PARKER CREEK, VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	76011
29	STONY CK BRANFORD CONN	NED	0.18	0.18	0.00	0.00	0.18	SINGLE PUR NAV	76064
29	CHINCOTEAGUE INLET VA	NAO	816.45	816.45	0.00	0.00	816.45	SINGLE PUR NAV	76106
29	TYLERS BEACH VA	NAO	32.09	32.09	0.00	0.00	32.09	SINGLE PUR NAV	76107
29	PATCHOGUE RVR RI CONN	NED	6.52	6.52	0.00	0.00	6.52	SINGLE PUR NAV	87008
29	ANDREWS RVR MA	NED	-0.62	-0.62	0.00	0.00	-0.62	SINGLE PUR NAV	87009
29	CEDAR CREEK	NAP	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	87211
29	RUDEE INLET, VIRGINIA	NAO	442.73	442.73	0.00	0.00	442.73	SINGLE PUR NAV	87455
29	SHALLOW CREEK,MD	NAB	25.00	25.00	0.00	0.00	25.00	SINGLE PUR NAV	87544
29			26395.89	26395.89	0.00	0.00	26575.89		

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000) FY 1996 (ACTUAL)

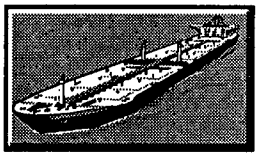
SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
30	TOWN CK, SC	SAC	393.92	393.92	0.00	0.00	393.92	SINGLE PUR NAV	1
30	BELHAVEN HBR NC	SAW	40.37	40.37	0.00	0.00	40.37	SINGLE PUR NAV	1290
30	THURMOND DAM & RES	SAS	8571.10	193.90	8377.20	0.00	193.90	MULTI W ALLOC	3350
30	CROSS FLA BARGE CANAL FL	SAJ	22.71	22.71	0.00	0.00	22.71	SINGLE PUR NAV	4300
30	HARTWELL GA,SC	SAS	8580.20	117.30	8462.90	0.00	117.30	MULTI W ALLOC	7380
30	LITTLE RIVER INLET SC	SAC	26.65	26.65	0.00	0.00	26.65	SINGLE PUR NAV	9930
30	LOCKWD FOLLY R NC	SAW	658.73	658.73	0.00	0.00	658.73	SINGLE PUR NAV	10020
30	MANTEO BAY NC	SAW	3309.61	3309.61	0.00	0.00	3309.61	SINGLE PUR NAV	10580
30	MURRELLS INLET SC	SAC	40.01	40.01	0.00	0.00	40.01	SINGLE PUR NAV	12030
30	OKLAWAHA RIVER FL	SAJ	125.48	125.48	0.00	0.00	125.48	SINGLE PUR NAV	13250
30	PONCE DE LEON INLET FL	SAJ	245.93	245.93	0.00	0.00	245.93	SINGLE PUR NAV	14310
30	ROLLINSON CH NC	SAW	0.31	0.31	0.00	0.00	0.31	SINGLE PUR NAV	15490
30	SAV R BELOW AUGUSTA GA SC	SAS	1677.66	1677.66	0.00	0.00	1677.66	SINGLE PUR NAV	16450
30	SILVER LKE HBR NC	SAW	45.44	45.44	0.00	0.00	45.44	SINGLE PUR NAV	16800
30	ST. LUCIE INLET FL	SAJ	510.53	510.53	0.00	0.00	510.53	SINGLE PUR NAV	17370
30	MELBOURNE HBR FL	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	22250
30	ROANOKE RVR NC	SAW	78.00	78.00	0.00	0.00	78.00	SINGLE PUR NAV	22510
30	DRUM INLET NC	SAW	72.06	72.06	0.00	0.00	72.06	SINGLE PUR NAV	26060
30	CHOWAN R NC	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	73752
30	ST. JOHNS R TO LK HRVY FL	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	74387
30	BAKERS HAULOVR INLT FL	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	74482
30	EAU GALLIE HBR FL	SAJ	2.33	2.33	0.00	0.00	2.33	SINGLE PUR NAV	74489
30	PAMLICO & TAR R NC	SAW	132.34	132.34	0.00	0.00	132.34	SINGLE PUR NAV	74615
30	WW CONN PAMLI SD BEAU HB	SAW	12.71	12.71	0.00	0.00	12.71	SINGLE PUR NAV	74632

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000) FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
30	ST AUGUSTINE HBR FL	SAJ	3192.12	3192.12	0.00	0.00	3192.12	SINGLE PUR NAV	75027
30	FOLLY RVR SC	SAC	252.12	252.12	0.00	0.00	252.12	SINGLE PUR NAV	87088
30	BROOKGREEN GARDEN CANAL	SAC	0.02	0.02	0.00	0.00	0.02	SINGLE PUR NAV	87533
30	JEREMY CREEK SC	SAC	0.02	0.02	0.00	0.00	0.02	SINGLE PUR NAV	88855
30			27990.37	11150.27	16840.10	0.00	11150.27		
31	SWINOMISH CHANNEL	NPS	0.73	0.73	0.00	0.00	0.73	SINGLE PUR NAV	17870
31			0.73	0.73	0.00	0.00	0.73		
32	COLUMBIA R BAKER BAY	NPP	1.60	1.60	0.00	0.00	1.60	SINGLE PUR NAV	3570
32	COLUM. R. BTN CHNK SD IS	NPP	1037.17	1037.17	0.00	0.00	1037.17	SINGLE PUR NAV	23080
32			1038.77	1038.77	0.00	0.00	1038.77		
33	CHETCO RIVER	NPP	463.98	463.98	0.00	0.00	463.98	SINGLE PUR NAV	3130
33	COQUILLE R OR	NPP	160.93	160.93	0.00	0.00	160.93	SINGLE PUR NAV	3900
33	DEPOE BAY OR	NPP	39.37	39.37	0.00	0.00	39.37	SINGLE PUR NAV	4610
33	NOYO RVR HBR CA	SPN	7.08	7.08	0.00	0.00	7.08	SINGLE PUR NAV	12940
33	QUILLAYUTE RIVER	NPS	4373.19	4373.19	0.00	0.00	4373.19		
33	ROGUE RVR HBR GOLD BH	NPP	998.18	998.18	0.00	0.00	998.18	SINGLE PUR NAV	15600
33	YAQUINA RVR OR	NPP	328.10	328.10	0.00	0.00	328.10	SINGLE PUR NAV	20300
33	HALF MOON BAY/PILAR PT HBR	SPN	87.00	87.00	0.00	0.00	87.00	SINGLE PUR NAV	74701
33			6457.83	6457.83	0.00	0.00	6457.83		
34	SACRAMENTO RVR CA	SPK	223.56	223.56	0.00	0.00	223.56	SINGLE PUR NAV	8187
34	PETALUMA RVR CA	SPN	345.60	345.60	0.00	0.00	345.60	SINGLE PUR NAV	13940

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
34	SACRAMENTO RVR DEBRIS CTRL	SPK	754.45	309.45	445.00	0.00	309.45	SINGLE PUR NAV	15810
34	YUBA RIVER DEBRIS TREAT CA	SPK	14.29	14.29	0.00	0.00	14.29	SINGLE PUR NAV	20410
34	S RAFAEL CK CA	SPN	0.66	0.66	0.00	0.00	0.66	SINGLE PUR NAV	74709
34			1338.56	893.56	445.00	0.00	893.56		
35	DILLINGHAM HBR AK	NPA	362.07	362.07	0.00	0.00	362.07	SINGLE PUR NAV	4800
35	NOME HBR AK	NPA	523.40	523.40	0.00	0.00	523.40	SINGLE PUR NAV	72742
35			885.47	885.47	0.00	0.00	885.47		
36	CANNK-NINILCHIK HARBOR	NPA	171.62	171.62	0.00	0.00	171.62	SINGLE PUR NAV	12640
36	VALDEZ HBR AK	NPA	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	72849
37	DOUGLAS HBR AK	NPA	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	72789
36			171.62	171.62	0.00	0.00	171.62		
37	DRY PASS AK	NPA	42.23	42.23	0.00	0.00	42.23	SINGLE PUR NAV	72791
37			42.23	42.23	0.00	0.00	42.23		
38	AUNUU HBR AS	POD	65.43	65.43	0.00	0.00	65.43	SINGLE PUR NAV	87036
38	AUASI SBH, AM SAMOA	POD	5.92	5.92	0.00	0.00	5.92	SINGLE PUR NAV	87108
38			71.35	71.35	0.00	0.00	71.35	214.05	
	GRAND TOTAL		96100.77	74256.17	21778.00	64.60	74264.63		



Navigation Operation and Maintenance:
Expenditures for Harbors and Waterways
Fiscal Year 1996

APPENDIX C - Shallow Draft Navigation Projects Subject to the Inland Waterway Fuel Tax, Analysis by Segment, O&M Expenditures for FY 1996 (Actual).

TABLE 11S
SHALLOW DRAFT NAVIGATION PROJECTS SUBJECT TO INLAND WATERWAY FUEL TAX
ANALYSIS BY SEGMENT- OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	NAVIGATION AMOUNT	PROJECT TYPE	CWIS NO
1	MISS. R. RHB MO R AND MPLS	NCS	3369.42	3369.42	0.00	0.00	3369.42	SINGLE PUR NAV	1053
1	CLARENCE CANNON DAM & RES	LMS	5777.20	2.70	5774.50	0.00	2.70	MULTI W ALLOC	2560
1	MS R& MO R BASIN MODEL DEV	LMS	239.78	239.78	0.00	0.00	239.78	MULTI WO ALLOC	8249
1	MISS R BTN MO R MNPLS MN	LMS	12271.30	11402.10	869.20	0.00	11402.10	SINGLE PUR NAV	11370
1	MISS R BTN OH/MO R IL	LMS	19772.30	19657.30	115.00	0.00	19657.30	SINGLE PUR NAV	11380
1	MISS R BTW MO R MPLS MN	NCR	35555.50	33245.20	2310.30	0.00	33245.20	SINGLE PUR NAV	11550
1	RES AT HEADWATERS	NCS	3095.10	0.00	1564.50	1530.60	153.06	SINGLE PUR NAV	15200
1	MISS. R. BET MO. AND MNPLS	NCS	41288.60	40179.50	1109.10	0.00	40179.50	SINGLE PUR NAV	74295
1			121369.20	108096.00	11742.60	1530.60	108249.06		
2	CARLYLE LAKE, IL	LMS	4731.40	0.00	2676.30	2055.10	205.51	SINGLE PUR NAV	2700
2	KASKASKIA RVR IL	LMS	1831.40	1827.60	3.80	0.00	1827.60	SINGLE PUR NAV	8770
2	LAKE SHELBYVILLE,IL	LMS	5134.00	0.00	2952.90	2181.10	218.11	SINGLE PUR NAV	16691
2			11696.80	1827.60	5633.00	4236.20	2251.22		
3	MR&T CHAN IMP MAINT DREDG	LMV	13801.00	13801.00	0.00	0.00	13801.00	MULTI WO ALLOC	99991
3	MR&T CHAN IMP CONST DREDG	LMV	0.00	0.00	0.00	0.00	0.00	MULTI WO ALLOC	99992
3	MR&T CHAN IMP MAINT DIKES	LMV	1946.00	1946.00	0.00	0.00	1946.00	SINGLE PUR NAV	99993
3	MR&T CHAN IMP CONST DIKES	LMV	15054.00	15054.00	0.00	0.00	15054.00	M R & T	99994
3	MR&T CHAN IMP REVET MAINT	LMV	30545.00	0.00	0.00	30545.00	10171.49	M R & T	99995
3	MR&T CHAN IMP REVET CONST	LMV	24647.00	0.00	0.00	24647.00	8207.45	M R & T	99996
3	MR&T OLD RIVER MAINT	LMV	3080.00	0.00	0.00	3080.00	1025.64	M R & T	99997
3	MR&T OLD RIVER CONST	LMV	0.00	0.00	0.00	0.00	0.00	M R & T	99998
3	MR&T-ALL OTHER FEATURES	LMV	209738.00	0.00	209738.00	0.00	0.00	M R & T	99999
3			298811.00	30801.00	209738.00	58272.00	50205.58		

TABLE 11S
SHALLOW DRAFT NAVIGATION PROJECTS SUBJECT TO INLAND WATERWAY FUEL TAX
ANALYSIS BY SEGMENT- OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	NAVIGATION AMOUNT	PROJECT TYPE	CWIS NO
4	GIWW LA	LMN	16777.31	16777.31	0.00	0.00	16777.31	M R & T	62
4	GIWW TX	SWG	12017.63	12017.63	0.00	0.00	12017.63	M R & T	7140
4	GIWW CHAN TO HARLINGEN, TX	SWG	605.34	605.34	0.00	0.00	605.34	M R & T	74817
4	MOUTH OF THE COLORADO RVR	SWG	1491.84	1491.84	0.00	0.00	1491.84	SINGLE PUR NAV	74826
4	CHANNEL TO PORT MANSFIELD	SWG	706.28	706.28	0.00	0.00	706.28	SINGLE PUR NAV	74847
4	CHOCOLATE BAYOU, TX	SWG	34.35	34.35	0.00	0.00	34.35	SINGLE PUR NAV	76085
4	CHANNEL TO VICTORIA, TX	SWG	553.56	553.56	0.00	0.00	553.56	SINGLE PUR NAV	88834
4			32186.31	32186.31	0.00	0.00	32186.31		
5	GIWW-MOBILE DIST AL,MS,FL	SAM	4048.59	4048.59	0.00	0.00	4048.59	SINGLE PUR NAV	7130
5			4048.59	4048.59	0.00	0.00	4048.59		
6	APLCH-CHAT-FLINT,FL,AL,GA	SAM	5553.20	5275.60	277.60	0.00	5275.60	SINGLE PUR NAV	410
6	BUFORD DAM GA	SAM	7438.40	82.80	7355.60	0.00	82.80	SINGLE PUR NAV	2190
6	JIM WOODRUFF L D FL GA	SAM	4830.00	1756.10	3073.90	0.00	1756.10	SINGLE PUR NAV	8450
6	W.F. GEORGE L D AL GA	SAM	5291.60	1086.50	4205.10	0.00	1086.50	MULTI W ALLOC	19190
6	WEST PT DAM AL GA	SAM	6066.50	36.90	6029.60	0.00	36.90	MULTI W ALLOC	19710
6			29179.70	8237.90	20941.80	0.00	8237.90		
7	BWT RVR AL	SAM	16648.50	15083.50	1565.00	0.00	15083.50	SINGLE PUR NAV	1680
7			16648.50	15083.50	1565.00	0.00	15083.50		
8	ROBERT F. HENRY L&D AL	SAM	5350.00	941.00	4409.00	0.00	941.00	MULTI W ALLOC	8590
8	MILLERS FERRY L&D AL	SAM	4175.40	1019.00	3156.40	0.00	1019.00	MULTI W ALLOC	11230
8	ALA-COOSA RIVERS, AL	SAM	4587.10	4160.50	426.60	0.00	4160.50	SINGLE PUR NAV	23240
8			14112.50	6120.50	7992.00	0.00	6120.50		

TABLE 11S
SHALLOW DRAFT NAVIGATION PROJECTS SUBJECT TO INLAND WATERWAY FUEL TAX
ANALYSIS BY SEGMENT- OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	NAVIGATION AMOUNT	PROJECT TYPE	CWIS NO
9	TENN-TOM WWY AL, MS	SAM	19944.50	15776.10	4168.40	0.00	15776.10	MULTI W ALLOC	18070
9			19944.50	15776.10	4168.40	0.00	15776.10		
10	TENNESSEE RIVER	ORN	14059.64	14059.64	0.00	0.00	14059.64	SINGLE PUR NAV	18080
10			14059.64	14059.64	0.00	0.00	14059.64		
11	GREEN BARREN RVR KY	ORL	1381.13	1381.13	0.00	0.00	1381.13	MULTI W ALLOC	6970
11			1381.13	1381.13	0.00	0.00	1381.13		
12	KENTUCKY RVR KY	ORL	3148.75	3148.75	0.00	0.00	3148.75	SINGLE PUR NAV	8920
12			3148.75	3148.75	0.00	0.00	3148.75		
13	OH RVR LOCKS & DAMS	ORH	16607.70	16420.10	187.60	0.00	16420.10	SINGLE PUR NAV	13140
13	OHIO RV OP CH WORK PA	ORP	148.98	148.98	0.00	0.00	148.98	SINGLE PUR NAV	13160
13	OH RVR OP CH WORK	ORH	1984.80	1984.08	0.00	0.00	1984.80	SINGLE PUR NAV	13170
13	OH RVR LD CONSTR PA	ORP	14047.13	14033.09	14.04	0.00	14033.09	SINGLE PUR NAV	13180
13	OH RVR OP CH WRK IL	ORL	3702.33	3702.33	0.00	0.00	3702.33	SINGLE PUR NAV	13190
13	OH RVR LCK DAMS IL	ORL	22593.64	22593.64	0.00	0.00	22593.64	SINGLE PUR NAV	13200
13			59084.58	58882.22	201.64	0.00	58882.94		
14	KANAWHA RVR LCKS & DAMS WV	ORH	9298.50	9293.10	5.40	0.00	9293.10	SINGLE PUR NAV	8720
14	SUMMERSVILLE LAKE, WV	ORH	1792.80	0.00	728.70	1064.10	106.41	SINGLE PUR NAV	17740
14			11091.30	9293.10	734.10	1064.10	9399.51		
15	ALLEGHENY RVR PA	ORP	12646.95	12645.91	1.04	0.00	12645.91	SINGLE PUR NAV	230

TABLE 11S
SHALLOW DRAFT NAVIGATION PROJECTS SUBJECT TO INLAND WATERWAY FUEL TAX
ANALYSIS BY SEGMENT- OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	NAVIGATION AMOUNT	PROJECT TYPE	CWIS NO
15			12646.95	12645.91	1.04	0.00	12645.91		
16	MONONGAHELA RVR PA	ORP	14015.07	14011.02	4.05	0.00	14011.02	MULTI WO ALLOC	11740
16	TYGART LAKE, WV	ORP	1550.23	0.00	96.64	1453.59	145.36	SINGLE PUR NAV	18730
16			15565.30	14011.02	100.69	1453.59	14156.38		
17	M-K ARK R NAV SYS OK	SWT	4431.08	3916.28	514.80	0.00	3916.28	SINGLE PUR NAV	510
17	M-K ARK R NAV SYS AR	SWL	20351.10	17348.10	2610.20	392.80	17348.10	SINGLE PUR NAV	520
17	DARDANELLE AR	SWL	5174.20	1906.50	3267.70	0.00	1906.50	MULTI WO ALLOC	4460
17	EUFAULA LAKE OK	SWT	4142.50	372.10	3770.40	0.00	372.10	MULTI W ALLOC	5650
17	KEYSTONE LAKE OK	SWT	3566.10	435.70	3130.40	0.00	435.70	SINGLE PUR NAV	8990
17	OOLOGAH LAKE, OK	SWT	1503.50	118.10	1385.40	0.00	118.10	MULTI W ALLOC	13340
17	KERR L D RES OK	SWT	3518.40	1333.00	2185.40	0.00	1333.00	MULTI W ALLOC	15370
17	WEBBERS FLS L&D OK	SWT	2831.80	1237.40	1594.40	0.00	1237.40	SINGLE PUR NAV	19590
17	WHITE RVR AR	LMM	2123.29	2123.29	0.00	0.00	2123.29	SINGLE PUR NAV	19830
17	OZARK L&D AR	SWL	3350.70	519.60	2831.10	0.00	519.60	MULTI W ALLOC	22480
17			50992.67	29310.07	21289.80	392.80	29310.07		
18	PEARL RVR MS-LA	LMK	392.00	377.50	14.50	0.00	377.50	MULTI W ALLOC	13780
18			392.00	377.50	14.50	0.00	377.50		
19	OUACHITA/BLACK R AR LA	LMK	6834.30	6007.30	827.00	0.00	6007.30	MULTI W ALLOC	13460
19	DEGRAY LAKE	LMK	3685.90	15.20	3670.70	0.00	15.20	MULTI W ALLOC	36011
19			10520.20	6022.50	4497.70	0.00	6022.50		
20	RED R WW MISS R TO SHREVE	LMK	7265.50	7066.50	199.00	0.00	7066.50	SINGLE PUR NAV	65

TABLE 11S
SHALLOW DRAFT NAVIGATION PROJECTS SUBJECT TO INLAND WATERWAY FUEL TAX
ANALYSIS BY SEGMENT- OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

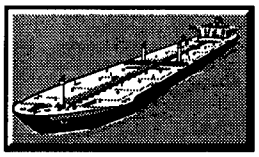
SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	NAVIGATION AMOUNT	PROJECT TYPE	CWIS NO
20			7265.50	7066.50	199.00	0.00	7066.50		
21	ILLINOIS WWY, IL	NCR	21065.30	20833.60	231.70	0.00	20833.60	MULTI W ALLOC	8010
21	ILLINOIS WWY, IL	LMS	1101.20	1101.20	0.00	0.00	1101.20	SINGLE PUR NAV	8040
21			22166.50	21934.80	231.70	0.00	21934.80		
22	BARKLEY D LAKE BARKLEY, KY	ORN	7657.40	3174.40	4483.00	0.00	3174.40	SINGLE PUR NAV	940
22	CHEATHAM L D	ORN	5977.10	2713.80	3263.30	0.00	2713.80	SINGLE PUR NAV	3040
22	CORDELL HULL D RES	ORN	4094.30	301.40	3792.90	0.00	301.40	SINGLE PUR NAV	3940
22	OLD HICKORY L D	ORN	6094.40	1616.20	4478.20	0.00	1616.20	MULTI W ALLOC	13280
22			23823.20	7805.80	16017.40	0.00	7805.80		
23	MO RVR SIOUX CTY TO MTH	MRO	5391.59	2673.59	372.00	2346.00	2908.19	MULTI W ALLOC	621
23	FT PECK DAM MT	MRO	5682.00	1081.40	4600.60	0.00	1081.40	MULTI W ALLOC	6230
23	FT RNDL D LK FRNCS CSE SD	MRO	9676.00	1135.50	8540.50	0.00	1135.50	MULTI W ALLOC	6270
23	GARRISON D LK SAKWA ND	MRO	8912.00	1098.70	7813.30	0.00	1098.70	MULTI W ALLOC	6400
23	GAVINS PT D LW CLK LKE SD	MRO	6346.00	762.70	5583.30	0.00	762.70	MULTI WO ALLOC	6440
23	OAHE D LKE SD ND	MRO	9683.00	1084.20	8598.80	0.00	1084.20	MULTI WO ALLOC	12960
23	RATHBURN LKE IOWA	MRK	2127.00	0.00	1104.00	1023.00	102.30	MULTI W ALLOC	14880
23	TUTTLE LKE CK KANSAS	MRK	2516.00	0.00	408.00	2108.00	210.80	MULTI W ALLOC	18660
23	WILSON LKE KANSAS	MRK	1380.00	0.00	752.00	628.00	62.80	MULTI WO ALLOC	20060
23			51713.59	7836.09	37772.50	6105.00	8446.59		
29	ATLANTIC IWW VA	NAO	1469.68	1469.68	0.00	0.00	1469.68	MULTI WO ALLOC	720
29	AIWW DISMAL SWAP CANAL	NAO	1642.09	1642.09	0.00	0.00	1642.09	SINGLE PUR NAV	88800
29			3111.77	3111.77	0.00	0.00	3111.77		

TABLE 11S
SHALLOW DRAFT NAVIGATION PROJECTS SUBJECT TO INLAND WATERWAY FUEL TAX
ANALYSIS BY SEGMENT- OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	NAVIGATION AMOUNT	PROJECT TYPE	CWIS NO
30	AIWW SC	SAC	5319.57	5319.57	0.00	0.00	5319.57	SINGLE PUR NAV	20
30	AIWW-WILM NC	SAW	7034.91	7034.91	0.00	0.00	7034.91	SINGLE PUR NAV	30
30	IWW JAX TO MIAMI FL	SAJ	2697.91	2697.91	0.00	0.00	2697.91	SINGLE PUR NAV	8420
30	AIWW FERND TO ST JOHN R F	SAJ	75.86	75.86	0.00	0.00	75.86	SINGLE PUR NAV	20470
30	AIWW GA	SAS	1569.74	1569.74	0.00	0.00	1569.74	SINGLE PUR NAV	74569
30	CAROLINA BEACH INLET, NC	SAW	586.45	586.45	0.00	0.00	586.45	SINGLE PUR NAV	88801
30	MASONBORO INLET	SAW	3828.79	3828.79	0.00	0.00	3828.79	SINGLE PUR NAV	88802
30	NEW TOPSAIL INLET,NC	SAW	546.75	546.75	0.00	0.00	546.75	SINGLE PUR NAV	88803
30	BOGUE INLET, NC	SAW	617.05	617.05	0.00	0.00	617.05	SINGLE PUR NAV	88804
30	NEW RIVER INLET, NC	SAW	977.07	977.07	0.00	0.00	977.07	SINGLE PUR NAV	88805
30			23254.10	23254.10	0.00	0.00	23254.10		
32	ALBENI FALLS D IDAHO	NPS	4330.00	10.90	4319.10	0.00	10.90	SINGLE PUR NAV	200
32	ICE HBR L D WA	NPW	12918.70	5254.60	7664.10	0.00	5254.60	SINGLE PUR NAV	608
32	COUGAR LKE OR	NPP	1134.10	8.00	1126.10	0.00	8.00	SINGLE PUR NAV	4080
32	DALLES L D OR WA	NPP	12243.70	1947.00	10296.70	0.00	1947.00	SINGLE PUR NAV	4400
32	DETROIT B CLIFF OR	NPP	1989.10	5.20	1983.90	0.00	5.20	SINGLE PUR NAV	4690
32	DWORSHAK D RES ID	NPW	9108.40	171.10	8937.30	0.00	171.10	MULTI W ALLOC	5090
32	GREEN PETER FOSTER OR	NPP	2405.60	6.90	2398.70	0.00	6.90	MULTI W ALLOC	6940
32	HILLS CK LKE OR	NPP	676.80	5.30	671.50	0.00	5.30	MULTI W ALLOC	7530
32	JOHN DAY L D OR WA	NPP	12202.90	1411.40	10791.50	0.00	1411.40	MULTI W ALLOC	8480
32	LITTLE GOOSE L D WA	NPW	4534.60	311.30	4223.30	0.00	311.30	MULTI W ALLOC	9880
32	LKOUT PT OR	NPP	5881.30	30.70	5850.60	0.00	30.70	MULTI W ALLOC	10050
32	LWR GRANITE L D WA	NPW	8602.50	227.60	8374.90	0.00	227.60	MULTI W ALLOC	10180
32	LWR MONUMENTAL L D WA	NPW	6547.00	354.00	6193.00	0.00	354.00	MULTI W ALLOC	10210

TABLE 11S
SHALLOW DRAFT NAVIGATION PROJECTS SUBJECT TO INLAND WATERWAY FUEL TAX
ANALYSIS BY SEGMENT- OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	NAVIGATION AMOUNT	PROJECT TYPE	CWIS NO
32	MCNARY LD OR WA	NPW	12398.70	1810.30	10588.40	0.00	1810.30	SINGLE PUR NAV	10920
32	WILMTE FALLS LK OR	NPP	1242.93	1242.93	0.00	0.00	1242.93	MULTI W ALLOC	19960
32			96216.33	12797.23	83419.10	0.00	12797.23		
	GRAND TOTAL		954430.61	455116.35	426259.97	73054.29	475959.88		



Navigation Operation and Maintenance:
Expenditures for Harbors and Waterways
Fiscal Year 1996

APPENDIX D - Deep Draft Navigation Projects, Navigation Cost Recovery Analysis by State, O&M Expenditures for FY 1996 (Actual).

TABLE 1D

DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
ALASKA									
360	AK	ANCHORAGE HBR AK	NPA	1494.19	1494.19	0.00	0.00	1494.19	SINGLE PUR NAV
16840	AK	CRESCENT BAY HARBOR, AK	NPA	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
80508	AK	HOMER HBR AK	NPA	186.66	186.66	0.00	0.00	186.66	SINGLE PUR NAV
87071	AK	KETCHIKAN BAR PT HBR, AK	NPA	136.59	136.59	0.00	0.00	136.59	SINGLE PUR NAV
10169	AK	ST PAUL HARBOR AK	NPA	-0.50	-0.50	0.00	0.00	-0.50	SINGLE PUR NAV
631	AK	THOMAS BASIN (KETCHIKAN)	NPA	264.22	264.22	0.00	0.00	264.22	SINGLE PUR NAV
65015	AK	WRANGELL NARROWS AK	NPA	-719.19	-719.19	0.00	0.00	-719.19	SINGLE PUR NAV
		TOTAL		1361.97	1361.97	0.00	0.00	1361.97	
ALABAMA									
1120	AL	BAYOU LABATRE AL	SAM	39.72	39.72	0.00	0.00	39.72	SINGLE PUR NAV
11670	AL	MOBILE HBR AL	SAM	20344.11	20344.11	0.00	0.00	20344.11	SINGLE PUR NAV
		TOTAL		20383.83	20383.83	0.00	0.00	20383.83	
AMERICA SAMOA									
87038	AS	OFU HBR SAMOA	POD	0.63	0.63	0.00	0.00	0.63	SINGLE PUR NAV
		TOTAL		0.63	0.63	0.00	0.00	0.63	
CALIFORNIA									
14360	CA	CH IS HBR CA	SPL	1875.33	1875.33	0.00	0.00	1875.33	SINGLE PUR NAV
4430	CA	DANA POINT HARBOR CA	SPL	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
7860	CA	HUMBOLDT HBR BAY CA	SPN	2600.45	2600.45	0.00	0.00	2600.45	SINGLE PUR NAV
74719	CA	L A AND LONG BEACH HBRS CA	SPL	1001.05	1001.05	0.00	0.00	1001.05	SINGLE PUR NAV

TABLE 1D

DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
76101	CA	LA-LB HARBOR MODEL, CA	SPL	205.60	205.60	0.00	0.00	205.60	SINGLE PUR NAV
37690	CA	MARINA DEL REY CA	SPL	1177.23	1177.23	0.00	0.00	1177.23	SINGLE PUR NAV
11860	CA	MORRO BAY HBR CA	SPL	1672.07	1672.07	0.00	0.00	1672.07	SINGLE PUR NAV
11880	CA	MOSS LANDING HBR CA	SPN	778.98	778.98	0.00	0.00	778.98	SINGLE PUR NAV
74703	CA	NAPA RVR CA	SPN	35.37	35.37	0.00	0.00	35.37	SINGLE PUR NAV
74720	CA	NEWPORT HARBOR CA	SPL	140.68	140.68	0.00	0.00	140.68	SINGLE PUR NAV
12990	CA	OAKLAND HBR CA	SPN	733.08	733.08	0.00	0.00	733.08	SINGLE PUR NAV
13080	CA	OCEANSIDE HBR CA	SPL	317.66	317.66	0.00	0.00	317.66	SINGLE PUR NAV
13085	CA	OCEANSIDE HBR SAND-BY-PASS	SPL	655.22	655.22	0.00	0.00	655.22	SINGLE PUR NAV
232	CA	PORT SAN LUIS CA	SPL	0.80	0.80	0.00	0.00	0.80	SINGLE PUR NAV
74656	CA	PT HUENEME CA	SPL	68.03	68.03	0.00	0.00	68.03	SINGLE PUR NAV
74722	CA	REDONDO BEACH KING HBR CA	SPL	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
15100	CA	REDWOOD CITY HBR CA	SPN	4700.00	4700.00	0.00	0.00	4700.00	SINGLE PUR NAV
15280	CA	RICHMOND HBR CA	SPN	2264.24	2264.24	0.00	0.00	2264.24	SINGLE PUR NAV
76029	CA	S FRANCISCO BAY DLT MDL CA	SPN	2609.75	1599.75	1010.00	0.00	1599.75	SINGLE PUR NAV
16230	CA	S PABLO BAY MRE IS STR CA	SPN	299.91	299.91	0.00	0.00	299.91	SINGLE PUR NAV
15870	CA	SACRAMENTO RVR CA	SPK	1312.12	1312.12	0.00	0.00	1312.12	SINGLE PUR NAV
16110	CA	SAN DIEGO HBR CA	SPL	650.46	650.46	0.00	0.00	650.46	SINGLE PUR NAV
15750	CA	SAN DIEGO-MISSION BAY CA	SPL	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
16130	CA	SAN FRANCISCO HBR CA	SPN	2080.35	2080.35	0.00	0.00	2080.35	SINGLE PUR NAV
16140	CA	SAN FRANCISCO HBR DRFT REM	SPN	2066.07	2066.07	0.00	0.00	2066.07	SINGLE PUR NAV
16180	CA	SAN JOAQUIN RVR CA	SPK	822.85	822.85	0.00	0.00	822.85	SINGLE PUR NAV
15730	CA	SANTA BARBARA HBR CA	SPL	1543.58	1543.58	0.00	0.00	1543.58	SINGLE PUR NAV
88920	CA	SF BAY LONG TERM MGT STRAT	SPN	711.44	711.44	0.00	0.00	711.44	SINGLE PUR NAV

TABLE 1D

DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
17720	CA	SUISUN BAY CHANNEL CA	SPN	960.82	960.82	0.00	0.00	960.82	SINGLE PUR NAV
24190	CA	VENTURA HBR CA	SPL	1968.56	1968.56	0.00	0.00	1968.56	SINGLE PUR NAV
		TOTAL		33251.70	32241.70	1010.00	0.00	32241.70	
CONNECTICUT									
3760	CT	CONN RVR BLW HARTFRD	NED	49.91	49.91	0.00	0.00	49.91	SINGLE PUR NAV
12380	CT	NEW HVN HBR CONN	NED	0.22	0.11	0.00	0.00	0.11	SINGLE PUR NAV
		TOTAL		50.13	50.02	0.00	0.00	50.02	
DISTRICT OF COLUMBIA									
19500	DC	WASHINGTON HBR DC	NAB	35.05	35.05	0.00	0.00	35.05	SINGLE PUR NAV
		TOTAL		35.05	35.05	0.00	0.00	35.05	
DELAWARE									
73836	DE	C&D CAN BRIDGES MAJ REHAB	NAP	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
8215	DE	C&D CAN, ST GEORGES BR DE	NAP	14001.34	14001.34	0.00	0.00	14001.34	SINGLE PUR NAV
4570	DE	DEL RVR PA NJ PHILA TO S	NAP	20586.48	20586.48	0.00	0.00	20586.48	SINGLE PUR NAV
8160	DE	IWW FM DEL R TO CHPKE B D	NAP	17690.73	17690.73	0.00	0.00	17690.73	SINGLE PUR NAV
20040	DE	WILMINGTON HBR DEL	NAP	2057.04	2057.04	0.00	0.00	2057.04	SINGLE PUR NAV
		TOTAL		54335.59	54335.59	0.00	0.00	54335.59	
FLORIDA									
2520	FL	CANAVERAL HARBOR FL	SAJ	2970.54	2970.54	0.00	0.00	2970.54	SINGLE PUR NAV
76018	FL	CARRABELLE HARBOR FL	SAM	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV

TABLE 1D

DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
3000	FL	CHARLOTTE HARBOR FL	SAJ	94.47	94.47	0.00	0.00	94.47	SINGLE PUR NAV
5840	FL	FERNANDINA HARBOR FL	SAJ	1403.25	1403.25	0.00	0.00	1403.25	SINGLE PUR NAV
6260	FL	FORT PIERCE HARBOR FL	SAJ	274.30	274.30	0.00	0.00	274.30	SINGLE PUR NAV
8410	FL	JACKSONVILLE HARBOR FL	SAJ	7742.50	7742.50	0.00	0.00	7742.50	SINGLE PUR NAV
74378	FL	MIAMI HBR FL	SAJ	188.11	188.11	0.00	0.00	188.11	SINGLE PUR NAV
13590	FL	PALM BEACH HBR FL	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
13590	FL	PALM BEACH HBR FL	SAJ	1613.62	1613.62	0.00	0.00	1613.62	SINGLE PUR NAV
13640	FL	PANAMA CITY HBR FL	SAM	706.19	706.19	0.00	0.00	706.19	SINGLE PUR NAV
13830	FL	PENSACOLA HBR FL	SAM	0.30	0.30	0.00	0.00	0.30	SINGLE PUR NAV
76031	FL	PORT EVERGLADES HBR FL	SAJ	47.67	47.67	0.00	0.00	47.67	SINGLE PUR NAV
14390	FL	PT ST. JOE HBR FL	SAM	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
74390	FL	ST. PETERSBURG HBR FL	SAJ	38.87	38.87	0.00	0.00	38.87	SINGLE PUR NAV
17960	FL	TAMPA HARBOR FL	SAJ	3099.52	3099.52	0.00	0.00	3099.52	SINGLE PUR NAV
		TOTAL		18179.34	18179.34	0.00	0.00	18179.34	
GEORGIA									
2080	GA	BRUNSWICK HBR	SAS	3398.54	3398.54	0.00	0.00	3398.54	SINGLE PUR NAV
74576	GA	DARIEN HARBOR, GA	SAS	0.99	0.99	0.00	0.00	0.99	SINGLE PUR NAV
8232	GA	SAVANAH HBR LONG TRM MGT	SAS	9.84	9.84	0.00	0.00	9.84	SINGLE PUR NAV
75085	GA	SAVANNAH HBR	SAS	14092.57	14092.57	0.00	0.00	14092.57	SINGLE PUR NAV
		TOTAL		17501.94	17501.94	0.00	0.00	17501.94	
HAWAII									
7660	HI	HONOLULU HBR HI	POD	8.74	8.74	0.00	0.00	8.74	SINGLE PUR NAV

TABLE 1D

DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
		TOTAL		8.74	8.74	0.00	0.00	8.74	
ILLINOIS									
2410	IL	CALUMET HBR R IL	NCC	571.70	571.70	0.00	0.00	571.70	SINGLE PUR NAV
45009	IL	CHICAGO HBR IL	NCC	5405.14	5405.14	0.00	0.00	5405.14	SINGLE PUR NAV
3810	IL	CHICAGO RVR IL	NCC	370.09	370.09	0.00	0.00	370.09	SINGLE PUR NAV
19560	IL	WAUKEGAN HBR IL	NCC	644.95	644.95	0.00	0.00	644.95	SINGLE PUR NAV
		TOTAL		6991.88	6991.88	0.00	0.00	6991.88	
INDIANA									
2250	IN	BURNS WW HBR IN	NCC	890.81	890.81	0.00	0.00	890.81	SINGLE PUR NAV
18120	IN	INDIANA HBR IN	NCC	486.19	486.19	0.00	0.00	486.19	SINGLE PUR NAV
11060	IN	MICHIGAN CTY HBR IN	NCC	613.88	613.88	0.00	0.00	613.88	SINGLE PUR NAV
		TOTAL		1990.88	1990.88	0.00	0.00	1990.88	
LOUISIANA									
8236	LA	7.5 MCY STANDBY TIME	LMN	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
680	LA	ATCH R MORGAN CTY-GULF LA	LMN	8250.25	8250.25	0.00	0.00	8250.25	SINGLE PUR NAV
2440	LA	CALCASIEU R PASS LA	LMN	8707.58	8707.58	0.00	0.00	8707.58	SINGLE PUR NAV
7760	LA	HOUMA NAV CANAL LA	LMN	1643.83	1643.83	0.00	0.00	1643.83	SINGLE PUR NAV
11030	LA	MERMENTAU RIVER LA	LMN	3180.31	3180.31	0.00	0.00	3180.31	MULTI WO ALLOC
68	LA	MISS R-B RGE TO GULF LA	LMN	38460.69	38460.69	0.00	0.00	38460.69	SINGLE PUR NAV
11410	LA	MISS R-GULF OUTLET LA	LMN	17004.48	17004.48	0.00	0.00	17004.48	SINGLE PUR NAV

TABLE 1D

DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
		TOTAL		77247.14	77247.14	0.00	0.00	77247.14	
MASSACHUSETTS									
1960	MA	BOSTON HBR MA	NED	71.77	71.77	0.00	0.00	71.77	SINGLE PUR NAV
2620	MA	CAPE COD CNL MA	NED	7299.24	6587.90	711.34	0.00	6587.90	SINGLE PUR NAV
14200	MA	PLYMOUTH HBR MA	NED	1.36	1.36	0.00	0.00	1.36	SINGLE PUR NAV
		TOTAL		7372.37	6661.03	711.34	0.00	6661.03	
MARYLAND									
870	MD	BALT HBR CHS MD & VA	NAB	2541.26	2541.26	0.00	0.00	2541.26	SINGLE PUR NAV
74955	MD	BALTIMORE HBR & 50FT CHANN	NAB	8776.74	8776.74	0.00	0.00	8776.74	SINGLE PUR NAV
871	MD	BALTIMORE HBR DRIFT REMOVL	NAB	378.11	378.11	0.00	0.00	378.11	SINGLE PUR NAV
872	MD	BALTIMORE HBR PREV OF OBST	NAB	503.24	503.24	0.00	0.00	503.24	SINGLE PUR NAV
294	MD	POTOMAC R BLW WASH DC	NAB	90.82	90.82	0.00	0.00	90.82	SINGLE PUR NAV
		TOTAL		12290.17	12290.17	0.00	0.00	12290.17	
MAINE									
8890	ME	KENNEBEC RIVER ME	NED	10.39	10.39	0.00	0.00	10.39	SINGLE PUR NAV
367	ME	PORTLAND HBR ME	NED	145.45	145.45	0.00	0.00	145.45	SINGLE PUR NAV
		TOTAL		155.84	155.84	0.00	0.00	155.84	
MICHIGAN									
630	MI	ASHLAND HBR MI	NCE	4.55	4.55	0.00	0.00	4.55	SINGLE PUR NAV

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DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
1110	MI	BLACK RIVER-PORT HURON RVR	NCE	3.53	3.53	0.00	0.00	3.53	SINGLE PUR NAV
2990	MI	CHARLEVOIX HBR MI	NCE	223.25	223.25	0.00	0.00	223.25	SINGLE PUR NAV
74203	MI	CHEYBOYGAN HBR MI	NCE	3.75	3.75	0.00	0.00	3.75	SINGLE PUR NAV
2940	MI	CHS-LKE ST CLAIR MI	NCE	127.39	127.39	0.00	0.00	127.39	SINGLE PUR NAV
4710	MI	DETROIT RVR MI	NCE	4980.58	4980.58	0.00	0.00	4980.58	SINGLE PUR NAV
6130	MI	FRANKFORT HBR MI	NCE	3.07	3.07	0.00	0.00	3.07	SINGLE PUR NAV
6670	MI	GD HAVEN HBR MI	NCE	1262.81	1262.81	0.00	0.00	1262.81	SINGLE PUR NAV
6671	MI	GRAND HAVEN HBR MIT SHR DM	NCE	64.20	64.20	0.00	0.00	64.20	SINGLE PUR NAV
46064	MI	GRAND MARAIS HBR MI	NCE	8.00	8.00	0.00	0.00	8.00	SINGLE PUR NAV
7300	MI	HARBOR BEACH HBR MI	NCE	3.04	3.04	0.00	0.00	3.04	SINGLE PUR NAV
7610	MI	HOLLAND HARBOR MI	NCE	530.20	530.20	0.00	0.00	530.20	SINGLE PUR NAV
7611	MI	HOLLAND HBR MIT SHR DAM MI	NCE	56.00	56.00	0.00	0.00	56.00	SINGLE PUR NAV
8960	MI	KEWEENAW WW MI	NCE	481.96	481.96	0.00	0.00	481.96	SINGLE PUR NAV
10270	MI	LUDINGTON HARBOR MI	NCE	349.77	349.77	0.00	0.00	349.77	SINGLE PUR NAV
10480	MI	MANISTEE HARBOR MI	NCE	277.03	277.03	0.00	0.00	277.03	SINGLE PUR NAV
48013	MI	MARQUETTE HBR MI	NCE	1.95	1.95	0.00	0.00	1.95	SINGLE PUR NAV
45044	MI	MENOMINEE HBR MI	NCE	26.41	26.41	0.00	0.00	26.41	SINGLE PUR NAV
11760	MI	MONROE HBR MI	NCE	155.35	155.35	0.00	0.00	155.35	SINGLE PUR NAV
12061	MI	MUSKEGON HARBOR MITIGATION	NCE	168.78	168.78	0.00	0.00	168.78	SINGLE PUR NAV
12060	MI	MUSKEGON HBR MI	NCE	681.62	681.62	0.00	0.00	681.62	SINGLE PUR NAV
13330	MI	ONTONAGON HBR MI	NCE	769.35	769.35	0.00	0.00	769.35	SINGLE PUR NAV
13850	MI	PENTWATER HBR MI	NCE	421.19	421.19	0.00	0.00	421.19	SINGLE PUR NAV
21530	MI	PORTAGE LAKE HBR MI	NCE	130.34	130.34	0.00	0.00	130.34	SINGLE PUR NAV
48012	MI	PRESQUE ISLE HBR MI	NCE	0.85	0.85	0.00	0.00	0.85	SINGLE PUR NAV

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DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
15590	MI	ROUGE RVR MI	NCE	102.57	102.57	0.00	0.00	102.57	SINGLE PUR NAV
44064	MI	SAGINAW RIVER DIKE DISPOSL	NCE	8.72	8.72	0.00	0.00	8.72	SINGLE PUR NAV
57420	MI	SAGINAW RVR MI	NCE	1831.01	1831.01	0.00	0.00	1831.01	SINGLE PUR NAV
17300	MI	ST CLAIR RVR MI	NCE	812.18	812.18	0.00	0.00	812.18	SINGLE PUR NAV
17350	MI	ST JOSEPH HBR MI	NCE	801.97	801.97	0.00	0.00	801.97	SINGLE PUR NAV
17380	MI	ST MARYS R MI	NCE	17630.60	11375.00	2477.20	3778.40	11752.84	MULTI WO ALLOC
17351	MI	ST. JOSEPH HBR MIT SHR DAM	NCE	719.03	719.03	0.00	0.00	719.03	SINGLE PUR NAV
19810	MI	WHITE LAKE HBR MI	NCE	107.78	107.78	0.00	0.00	107.78	SINGLE PUR NAV
74176	MI	WHITE LK HBR MIT SHR DAM	NCE	210.09	210.09	0.00	0.00	210.09	SINGLE PUR NAV
		TOTAL		32958.92	26703.32	2477.20	3778.40	27081.16	
MINNESOTA									
5050	MN	DULUTH-SUPERIOR MN	NCE	3264.30	2750.90	513.40	0.00	2750.90	SINGLE PUR NAV
99871	MN	GRAND MARAIS HBR MN	NCE	2.67	2.67	0.00	0.00	2.67	SINGLE PUR NAV
18700	MN	TWO HBRS MN	NCE	3.27	3.27	0.00	0.00	3.27	SINGLE PUR NAV
		TOTAL		3270.24	2756.84	513.40	0.00	2756.84	
MISSISSIPPI									
7150	MS	GULFPORT HARBOR MS	SAM	1643.96	1643.96	0.00	0.00	1643.96	SINGLE PUR NAV
13680	MS	PASCAGOULA HBR MS	SAM	1644.91	1644.91	0.00	0.00	1644.91	SINGLE PUR NAV
		TOTAL		3288.87	3288.87	0.00	0.00	3288.87	
NORTH CAROLINA									

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DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
1210	NC	BEAUFORT HBR NC	SAW	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
2640	NC	CAPE FEAR R ABOVE WILM NC	SAW	415.10	273.60	141.50	0.00	273.60	SINGLE PUR NAV
11810	NC	MOREHD CTY HBR NC	SAW	2313.10	2313.10	0.00	0.00	2313.10	SINGLE PUR NAV
20030	NC	WILMINGTON BW NC	SAW	7545.03	7545.03	0.00	0.00	7545.03	SINGLE PUR NAV
		TOTAL		10273.23	10131.73	141.50	0.00	10131.73	
NEW HAMPSHIRE									
512	NH	PTSMTH HBR PISTAQUA RIVER	NED	5.42	2.71	0.00	0.00	2.71	SINGLE PUR NAV
		TOTAL		5.42	2.71	0.00	0.00	2.71	
NEW JERSEY									
80	NJ	ABSECON INLET NJ	NAP	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
22140	NJ	COLD SPRNG INLET	NAP	520.16	520.16	0.00	0.00	520.16	SINGLE PUR NAV
43005	NJ	DEL RIV/PHIL TO CAMDEN NJ	NAP	24.30	24.30	0.00	0.00	24.30	SINGLE PUR NAV
12550	NJ	NWRK B HCKSAK PASS R NJ	NAN	365.26	365.26	0.00	0.00	365.26	SINGLE PUR NAV
12520	NJ	NY NJ CHS NY NJ	NAN	77.24	77.24	0.00	0.00	77.24	SINGLE PUR NAV
14860	NJ	RARITAN RIVER NJ	NAN	-126.39	-126.39	0.00	0.00	-126.39	SINGLE PUR NAV
21870	NJ	RTN R ARTHR KILL CUT C NJ	NAN	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
24950	NJ	SALEM RIVER NJ	NAP	2.41	2.41	0.00	0.00	2.41	SINGLE PUR NAV
		TOTAL		862.98	862.98	0.00	0.00	862.98	
NEW YORK									
1040	NY	BAY RDGE RED HOOK CH NY	NAN	39.50	39.50	0.00	0.00	39.50	SINGLE PUR NAV
1660	NY	BL ROCK CH TONAWANDA HBR	NCB	3546.51	3546.51	0.00	0.00	3546.51	SINGLE PUR NAV

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DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
2140	NY	BUFFALO HBR NY	NCB	613.47	613.47	0.00	0.00	613.47	SINGLE PUR NAV
41015	NY	BUTTERMILK CH NY	NAN	819.85	819.85	0.00	0.00	819.85	SINGLE PUR NAV
50600	NY	DUNKIRK HBR NY	NCB	262.10	262.10	0.00	0.00	262.10	SINGLE PUR NAV
41062	NY	EAST RIVER NY	NAN	84.38	84.38	0.00	0.00	84.38	SINGLE PUR NAV
6860	NY	GT SODUS BAY HBR NY	NCB	293.84	293.84	0.00	0.00	293.84	SINGLE PUR NAV
7810	NY	HUDSON R NY TO ALB(MNT)	NAN	2391.90	2391.90	0.00	0.00	2391.90	SINGLE PUR NAV
7820	NY	HUDSON R NY TO ALB(O&C)	NAN	1109.33	1109.33	0.00	0.00	1109.33	SINGLE PUR NAV
7800	NY	HUDSON R. CHANNEL, NY	NAN	-50.43	-50.43	0.00	0.00	-50.43	SINGLE PUR NAV
54000	NY	JAMAICA BAY NY	NAN	637.47	637.47	0.00	0.00	637.47	SINGLE PUR NAV
9970	NY	LITTLE SODUS BAY HBR NY	NCB	219.49	219.49	0.00	0.00	219.49	SINGLE PUR NAV
12490	NY	NEW YORK HARBOR NY	NAN	6471.46	6471.46	0.00	0.00	6471.46	SINGLE PUR NAV
12500	NY	NEW YORK HBR DRIFT, NY	NAN	4986.70	4986.70	0.00	0.00	4986.70	SINGLE PUR NAV
17760	NY	NY HABOR PREV OF OBSTRUCTN	NAN	709.43	709.43	0.00	0.00	709.43	SINGLE PUR NAV
13440	NY	OSWEGO HBR NY	NCB	393.56	393.56	0.00	0.00	393.56	SINGLE PUR NAV
15390	NY	ROCHESTER HBR NY	NCB	37.43	37.43	0.00	0.00	37.43	SINGLE PUR NAV
		TOTAL		22565.99	22565.99	0.00	0.00	22565.99	
OHIO									
650	OH	ASHTABULA HBR OH	NCB	428.46	428.46	0.00	0.00	428.46	SINGLE PUR NAV
3430	OH	CLEVELAND HBR OH	NCB	5440.47	5440.47	0.00	0.00	5440.47	SINGLE PUR NAV
3770	OH	CONNEAUT HBR OH	NCB	649.44	649.44	0.00	0.00	649.44	SINGLE PUR NAV
5760	OH	FAIRPORT HBR OH	NCB	329.96	329.96	0.00	0.00	329.96	SINGLE PUR NAV
7920	OH	HURON HBR OH	NCB	1229.99	1229.99	0.00	0.00	1229.99	SINGLE PUR NAV
10060	OH	LORAIN HBR OH	NCB	2089.37	2089.37	0.00	0.00	2089.37	SINGLE PUR NAV

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DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
16260	OH	SANDUSKY HBR OH	NCB	109.76	109.76	0.00	0.00	109.76	SINGLE PUR NAV
18280	OH	TOLEDO HBR OH	NCB	2973.53	2973.53	0.00	0.00	2973.53	SINGLE PUR NAV
		TOTAL		13250.98	13250.98	0.00	0.00	13250.98	
OREGON									
8238	OR	7.5 MCY STANDBY TIME	NPP	0.26	0.26	0.00	0.00	0.26	SINGLE PUR NAV
80546	OR	BONNEVILLE LOCK DAM OR WA	NPP	19131.90	6761.80	12370.10	0.00	6761.80	MULTI W ALLOC
3620	OR	COL R BTN VNCR DALLES OR	NPP	249.83	249.83	0.00	0.00	249.83	SINGLE PUR NAV
3630	OR	COLMBA LWR WLMTE RVR OR	NPP	17041.83	17041.83	0.00	0.00	17041.83	SINGLE PUR NAV
3600	OR	COLUMBIA R AT MOTH OR WA	NPP	6661.66	6661.66	0.00	0.00	6661.66	SINGLE PUR NAV
3840	OR	COOS BAY OR	NPP	2635.31	2635.31	0.00	0.00	2635.31	SINGLE PUR NAV
14370	OR	PORT ORFORD OR	NPP	465.94	465.94	0.00	0.00	465.94	SINGLE PUR NAV
72765	OR	SEWARD HARBOR, OR	NPA	209.01	209.01	0.00	0.00	209.01	SINGLE PUR NAV
16860	OR	SIUSLAW RIVER OR	NPP	394.96	394.96	0.00	0.00	394.96	SINGLE PUR NAV
16930	OR	SKIPANON CHANNEL OR	NPP	15.89	15.89	0.00	0.00	15.89	SINGLE PUR NAV
18230	OR	TILLAMOOK BAY BAR OR	NPP	7.21	7.21	0.00	0.00	7.21	SINGLE PUR NAV
18750	OR	UMPQUA RIVER OR	NPP	707.81	707.81	0.00	0.00	707.81	SINGLE PUR NAV
20290	OR	YAQUINA BAY HBR OR	NPP	1725.48	1725.48	0.00	0.00	1725.48	SINGLE PUR NAV
		TOTAL		49247.09	36876.99	12370.10	0.00	36876.99	
PENNSYLVANIA									
8237	PA	7.5 MACY STANDBY TIME	NAP	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
4550	PA	DEL RVR BETWN PHILA TREN	NAP	3363.17	3363.17	0.00	0.00	3363.17	SINGLE PUR NAV
5600	PA	ERIE HBR PA	NCB	895.61	895.61	0.00	0.00	895.61	SINGLE PUR NAV

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DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
73836	PA	MAJOR REHAB-C&D BRIDGES,PA	NAP	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
16550	PA	SCHUYLKILL R PA	NAP	1916.71	1916.71	0.00	0.00	1916.71	SINGLE PUR NAV
		TOTAL		6175.49	6175.49	0.00	0.00	6175.49	
PUERTO RICO									
20500	PR	ARECIBO HBR PR	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
22280	PR	MAYAGUEZ HBR PR	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
75007	PR	PONCE HBR PR	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
16190	PR	SAN JUAN HBR PR	SAJ	44.28	44.28	0.00	0.00	44.28	SINGLE PUR NAV
		TOTAL		44.28	44.28	0.00	0.00	44.28	
RHODE ISLAND									
73445	RI	BLOCK ISLAND HBR OF REF RI	NED	75.78	75.78	0.00	0.00	75.78	SINGLE PUR NAV
566	RI	PROVIDENCE R & HBR RI	NED	124.59	124.59	0.00	0.00	124.59	SINGLE PUR NAV
72611	RI	PT JUDTH PND&HBR OF REF RI	NED	124.50	124.50	0.00	0.00	124.50	SINGLE PUR NAV
568	RI	SAKONNET HBR RI	NED	0.16	0.16	0.00	0.00	0.16	SINGLE PUR NAV
		TOTAL		325.03	325.03	0.00	0.00	325.03	
SOUTH CAROLINA									
2980	SC	CHARLESTON HARBOR SC	SAC	3533.45	3533.45	0.00	0.00	3533.45	SINGLE PUR NAV
8221	SC	CHAS HBR REDIVERSN FISH LF	SAC	331.60	331.60	0.00	0.00	331.60	SINGLE PUR NAV
74354	SC	COOPER R SC	SAC	2824.98	2808.98	16.00	0.00	2808.98	SINGLE PUR NAV
6480	SC	GEORGETOWN HARBOR SC	SAC	2423.17	2423.17	0.00	0.00	2423.17	SINGLE PUR NAV

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DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
14380	SC	PORT ROYAL HARBOR SC	SAC	932.98	932.98	0.00	0.00	932.98	SINGLE PUR NAV
16730	SC	SHIPYARD RVR SC	SAC	726.82	726.82	0.00	0.00	726.82	SINGLE PUR NAV
1	SC	TOWN CK SC	SAC	393.92	393.92	0.00	0.00	393.92	SINGLE PUR NAV
		TOTAL		11166.92	11150.92	16.00	0.00	11150.92	
TEXAS									
88912	TX	BARBOUR TERMINAL SHIP CNL	SWG	-75.33	-75.33	0.00	0.00	-75.33	SINGLE PUR NAV
88910	TX	BAYPORT SHIP CHANNEL	SWG	2438.66	2438.66	0.00	0.00	2438.66	SINGLE PUR NAV
1990	TX	BRAZOS IS TX	SWG	673.91	673.91	0.00	0.00	673.91	SINGLE PUR NAV
2930	TX	CH TO FT BOLIVAR TX	SWG	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
8213	TX	CHANNEL TO RED BLUFF, TX	SWG	151.61	151.61	0.00	0.00	151.61	SINGLE PUR NAV
14340	TX	CORPUS CHRISTI CH TX	SWG	2876.19	2876.19	0.00	0.00	2876.19	SINGLE PUR NAV
6170	TX	FREEPORT HBR TX	SWG	5947.44	5947.44	0.00	0.00	5947.44	SINGLE PUR NAV
6340	TX	GALVESTON HBR CH TX	SWG	321.20	321.20	0.00	0.00	321.20	SINGLE PUR NAV
88911	TX	GREENS BAYOU CHANNEL, TX	SWG	0.23	0.23	0.00	0.00	0.23	SINGLE PUR NAV
7780	TX	HOUSTON SHIP CHNL	SWG	4305.67	4305.67	0.00	0.00	4305.67	SINGLE PUR NAV
10810	TX	MATAGORDA SHIP CHNL TX	SWG	3844.89	3844.89	0.00	0.00	3844.89	SINGLE PUR NAV
15780	TX	SABINE-NECHES WW TX	SWG	17118.47	17118.47	0.00	0.00	17118.47	SINGLE PUR NAV
18130	TX	TEXAS CITY TX	SWG	1640.88	1640.88	0.00	0.00	1640.88	SINGLE PUR NAV
		TOTAL		39243.82	39243.82	0.00	0.00	39243.82	
VIRGINIA									
73772	VA	CAPE CHARLES CITY HBR VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
73783	VA	CH TO NEWPORT NEWS VA	NAO	947.23	947.23	0.00	0.00	947.23	SINGLE PUR NAV

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DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
1002	VA	HAMPTON ROADS DRIFT REMOVL	NAO	676.15	676.15	0.00	0.00	676.15	SINGLE PUR NAV
15170	VA	HAMPTON ROADS PRE OF OBST	NAO	310.50	310.50	0.00	0.00	310.50	SINGLE PUR NAV
8430	VA	JAMES RVR VA	NAO	3945.26	3945.26	0.00	0.00	3945.26	SINGLE PUR NAV
12801	VA	NORFOLK HBR CHS VA	NAO	6191.46	6191.46	0.00	0.00	6191.46	SINGLE PUR NAV
597	VA	POTOMAC R AT ALEX VA	NAB	36.59	36.59	0.00	0.00	36.59	SINGLE PUR NAV
14520	VA	POTOMAC R. DRIFT REMOVL VA	NAB	858.59	858.59	0.00	0.00	858.59	SINGLE PUR NAV
73800	VA	THIMBLE SHOAL CH VA	NAO	1205.10	1205.10	0.00	0.00	1205.10	SINGLE PUR NAV
73803	VA	YORK RIVER VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
		TOTAL		14170.88	14170.88	0.00	0.00	14170.88	
WASHINGTON									
1310	WA	BELLINGHAM HBR WA	NPS	328.31	328.31	0.00	0.00	328.31	SINGLE PUR NAV
79205	WA	EDIZ HOOK WA	NPS	5.32	5.32	0.00	0.00	5.32	SINGLE PUR NAV
5700	WA	EVERETT HBR SNOHOMISH RV	NPS	912.49	912.49	0.00	0.00	912.49	SINGLE PUR NAV
24370	WA	FRIDAY HARBOR	NPS	70.82	70.82	0.00	0.00	70.82	SINGLE PUR NAV
6770	WA	GRAYS HBR WA	NPS	7560.15	7560.15	0.00	0.00	7560.15	SINGLE PUR NAV
87153	WA	KENMORE NAVIGATION CH	NPS	95.53	95.53	0.00	0.00	95.53	SINGLE PUR NAV
72920	WA	LAKE CROCKETT WA	NPS	2.06	2.06	0.00	0.00	2.06	SINGLE PUR NAV
9400	WA	LK WASHINGTON SHP CNL WA	NPS	6419.80	5904.50	515.30	0.00	5904.50	SINGLE PUR NAV
13320	WA	OLYMPIA HBR WA	NPS	16.22	16.22	0.00	0.00	16.22	SINGLE PUR NAV
13970	WA	PUGET SOUND ITS TRIB WW	NPS	756.49	756.49	0.00	0.00	756.49	SINGLE PUR NAV
67318	WA	SEATTLE HBR WA	NPS	622.60	622.60	0.00	0.00	622.60	SINGLE PUR NAV
72902	WA	TACOMA HBR WA	NPS	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
19990	WA	WILLAPA HBR	NPS	137.33	137.33	0.00	0.00	137.33	SINGLE PUR NAV

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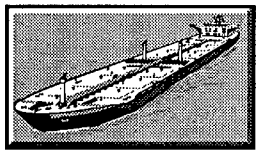
DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
		TOTAL		16927.12	16411.82	515.30	0.00	16411.82	
WISCONSIN									
74180	WI	GREEN BAY HBR DIKE DISP WI	NCE	144.28	144.28	0.00	0.00	144.28	SINGLE PUR NAV
6910	WI	GREEN BAY HBR WI	NCE	1515.67	1515.67	0.00	0.00	1515.67	SINGLE PUR NAV
8910	WI	KENOSHA HARBOR WI	NCE	47.90	47.90	0.00	0.00	47.90	SINGLE PUR NAV
76050	WI	KEWAUNEE HARBOR WI	NCE	240.32	240.32	0.00	0.00	240.32	SINGLE PUR NAV
10510	WI	MANITOWOC HBR WI	NCE	120.78	120.78	0.00	0.00	120.78	SINGLE PUR NAV
11270	WI	MILWAUKEE HBR WI	NCE	4247.21	4247.21	0.00	0.00	4247.21	SINGLE PUR NAV
23370	WI	OCONTO HBR WI	NCE	0.74	0.74	0.00	0.00	0.74	SINGLE PUR NAV
74190	WI	PORT WING HBR WI	NCE	1.03	1.03	0.00	0.00	1.03	SINGLE PUR NAV
14420	WI	PT WASHINGTON HBR WI	NCE	1.35	1.35	0.00	0.00	1.35	SINGLE PUR NAV
66700	WI	SHEBOYGAN HBR WI	NCE	87.17	87.17	0.00	0.00	87.17	SINGLE PUR NAV
17660	WI	STURGEON B & L MICH CAN,WI	NCE	117.97	117.97	0.00	0.00	117.97	SINGLE PUR NAV
18710	WI	TWO RVRS HBR WI	NCE	1103.45	1103.45	0.00	0.00	1103.45	SINGLE PUR NAV
		TOTAL		7627.87	7627.87	0.00	0.00	7627.87	
		TOTAL ALL STATES		482877.73	461344.49	17754.64	3778.40	461722.33	



Navigation Operation and Maintenance:
Expenditures for Harbors and Waterways
Fiscal Year 1996

APPENDIX E - Shallow Draft Navigation Projects Not Subject to the Inland Waterway Fuel Tax, Navigation Cost Recovery Analysis by State, O&M Expenditures for FY 1996 (Actual).

TABLE 21S

SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO INLAND WATERWAY FUEL TAX
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
ALASKA									
12640	AK	NINILCHIK HARBOR	NPA	171.62	171.62	0.00	0.00	171.62	SINGLE PUR NAV
4800	AK	DILLINGHAM HBR AK	NPA	362.07	362.07	0.00	0.00	362.07	SINGLE PUR NAV
72789	AK	DOUGLAS HBR AK	NPA	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
72791	AK	DRY PASS AK	NPA	42.23	42.23	0.00	0.00	42.23	SINGLE PUR NAV
72742	AK	NOME HBR AK	NPA	523.40	523.40	0.00	0.00	523.40	SINGLE PUR NAV
72849	AK	VALDEZ HBR AK	NPA	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
		TOTAL		1099.32	1099.32	0.00	0.00	1099.32	
ALABAMA									
74520	AL	BAYOU CODEN AL	SAM	12.31	12.31	0.00	0.00	12.31	SINGLE PUR NAV
76060	AL	BON SECOUR RVR AL	SAM	35.48	35.48	0.00	0.00	35.48	SINGLE PUR NAV
4480	AL	DAUPHIN ISLE BAY AL	SAM	250.15	250.15	0.00	0.00	250.15	SINGLE PUR NAV
20710	AL	DOG AND FOWL RIVERS, AL	SAM	676.10	676.10	0.00	0.00	676.10	SINGLE PUR NAV
5970	AL	FLY CREEK AL	SAM	102.11	102.11	0.00	0.00	102.11	SINGLE PUR NAV
13880	AL	PERDIDO PASS CH AL	SAM	30.41	30.41	0.00	0.00	30.41	SINGLE PUR NAV
		TOTAL		1106.56	1106.56	0.00	0.00	1106.56	
ARKANSAS									
7440	AR	HELENA HBR AR	LMM	217.92	217.92	0.00	0.00	217.92	SINGLE PUR NAV
13430	AR	OSCEOLA HBR AR	LMM	408.32	408.32	0.00	0.00	408.32	SINGLE PUR NAV
87282	AR	YELLOW BEND PORT, AR	LMK	31.63	31.63	0.00	0.00	31.63	SINGLE PUR NAV
		TOTAL		657.87	657.87	0.00	0.00	657.87	
AMERICA SAMOA									
87108	AS	AUASI SBH, AM SAMOA	POD	5.92	5.92	0.00	0.00	5.92	SINGLE PUR NAV

TABLE 21S

SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO INLAND WATERWAY FUEL TAX
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
87036	AS	AUNUU HBR AS	POD	65.43	65.43	0.00	0.00	65.43	SINGLE PUR NAV
		TOTAL		71.35	71.35	0.00	0.00	71.35	
CALIFORNIA									
74701	CA	HALF MOON BAY/PILAR PT HBR	SPN	87.00	87.00	0.00	0.00	87.00	SINGLE PUR NAV
12940	CA	NOYO RVR HBR CA	SPN	7.08	7.08	0.00	0.00	7.08	SINGLE PUR NAV
13940	CA	PETALUMA RVR CA	SPN	345.60	345.60	0.00	0.00	345.60	SINGLE PUR NAV
74709	CA	S RAFAEL CK CA	SPN	0.66	0.66	0.00	0.00	0.66	SINGLE PUR NAV
8187	CA	SACRAMENTO RVR CA	SPK	223.56	223.56	0.00	0.00	223.56	SINGLE PUR NAV
15810	CA	SACRAMENTO RVR DEBRIS CTRL	SPK	754.45	309.45	445.00	0.00	309.45	SINGLE PUR NAV
20410	CA	YUBA RIVER DEBRIS TREAT CA	SPK	14.29	14.29	0.00	0.00	14.29	SINGLE PUR NAV
		TOTAL		1432.64	987.64	445.00	0.00	987.64	
CONNECTICUT									
5910	CT	FIVE MILE RIVER, CT	NED	117.90	117.90	0.00	0.00	117.90	SINGLE PUR NAV
231	CT	GUILFORD HBR CT	NED	0.19	0.19	0.00	0.00	0.19	SINGLE PUR NAV
76064	CT	STONY CK BRANFORD CONN	NED	0.18	0.18	0.00	0.00	0.18	SINGLE PUR NAV
		TOTAL		118.27	118.27	0.00	0.00	118.27	
DISTRICT OF COLUMBIA									
73608	DC	ANACOSTIA RVR BASIN DC M	NAB	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
		TOTAL		0.00	0.00	0.00	0.00	0.00	
DELAWARE									
8110	DE	INDIAN RVR INLET BAY DEL	NAP	477.72	477.72	0.00	0.00	477.72	SINGLE PUR NAV
8170	DE	IWW REHOBOTH BAY TO DELA	NAP	154.23	154.23	0.00	0.00	154.23	SINGLE PUR NAV

TABLE 21S

SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO INLAND WATERWAY FUEL TAX
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
73857	DE	MISPILLION RVR DEL	NAP	-2.17	-2.17	0.00	0.00	-2.17	SINGLE PUR NAV
12020	DE	MURDERKILL RVR	NAP	39.19	39.19	0.00	0.00	39.19	SINGLE PUR NAV
		TOTAL		668.97	668.97	0.00	0.00	668.97	
FLORIDA									
74478	FL	ANCLOTE RIVER, FL	SAJ	4.02	4.02	0.00	0.00	4.02	SINGLE PUR NAV
430	FL	APALACHICOLA BAY FL	SAM	93.33	93.33	0.00	0.00	93.33	SINGLE PUR NAV
74482	FL	BAKERS HAULOVR INLT FL	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
23230	FL	BLACKWATER RVR FL	SAM	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
87215	FL	CEDAR ISLAND KEATON BCH FL	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
12150	FL	CH, NAPLES-BIG MARCO FL	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
3400	FL	CLEARWATER PASS FL	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
4300	FL	CROSS FLA BARGE CANAL FL	SAJ	22.71	22.71	0.00	0.00	22.71	SINGLE PUR NAV
74488	FL	CRYSTAL RIVER, FL	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
4980	FL	EAST PASS CHANNEL FL	SAM	1038.91	1038.91	0.00	0.00	1038.91	SINGLE PUR NAV
74489	FL	EAU GALLIE HBR FL	SAJ	2.33	2.33	0.00	0.00	2.33	SINGLE PUR NAV
5620	FL	ESCAMBIA-CONECUH RV FL AL	SAM	0.20	0.20	0.00	0.00	0.20	SINGLE PUR NAV
6220	FL	FORT MYERS BEACH FL	SAJ	0.50	0.50	0.00	0.00	0.50	SINGLE PUR NAV
74495	FL	HORSESHOE COVE, FL	SAJ	99.04	99.04	0.00	0.00	99.04	SINGLE PUR NAV
2480	FL	IWW CLCHEE R TO ANLTE R F	SAJ	60.68	60.68	0.00	0.00	60.68	SINGLE PUR NAV
1001	FL	JOHNS PASS, PINELLAS, FL	SAJ	56.15	56.15	0.00	0.00	56.15	SINGLE PUR NAV
9280	FL	LA GRANGE BAYOU FL	SAM	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
23100	FL	LONGBOAT PASS FL	SAJ	10.94	10.94	0.00	0.00	10.94	SINGLE PUR NAV
22250	FL	MELBOURNE HBR FL	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
74483	FL	NEW PASS SARASOTA FL	SAJ	95.27	95.27	0.00	0.00	95.27	SINGLE PUR NAV
13240	FL	OKEECHOBEE WWY, FL	SAJ	4649.20	3765.20	884.00	0.00	3765.20	SINGLE PUR NAV

TABLE 21S

SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO INLAND WATERWAY FUEL TAX
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
13250	FL	OKLAWAHA RIVER FL	SAJ	125.48	125.48	0.00	0.00	125.48	SINGLE PUR NAV
7510	FL	PANACEA HBR FL	SAM	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
14310	FL	PONCE DE LEON INLET FL	SAJ	245.93	245.93	0.00	0.00	245.93	SINGLE PUR NAV
75027	FL	ST AUGUSTINE HBR FL	SAJ	3192.12	3192.12	0.00	0.00	3192.12	SINGLE PUR NAV
74542	FL	ST MARKS R FL	SAM	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
74387	FL	ST. JOHNS R TO LK HRVY FL	SAJ	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
17370	FL	ST. LUCIE INLET FL	SAJ	510.53	510.53	0.00	0.00	510.53	SINGLE PUR NAV
74508	FL	STEINHATCHEE RIVER, FL	SAJ	-0.70	-0.70	0.00	0.00	-0.70	SINGLE PUR NAV
74391	FL	SUWANEE RIVER, FL	SAJ	0.13	0.13	0.00	0.00	0.13	SINGLE PUR NAV
74393	FL	WITHLACOOCHIE RIVER	SAJ	38.46	38.46	0.00	0.00	38.46	SINGLE PUR NAV
		TOTAL		10245.23	9361.23	884.00	0.00	9361.23	
GEORGIA									
7380	GA	HARTWELL GA,SC	SAS	8580.20	117.30	8462.90	0.00	117.30	MULTI W ALLOC
16450	GA	SAV R BELOW AUGUSTA GA SC	SAS	1677.66	1677.66	0.00	0.00	1677.66	SINGLE PUR NAV
3350	GA	THURMOND DAM & RES	SAS	8571.10	193.90	8377.20	0.00	193.90	MULTI W ALLOC
		TOTAL		18828.96	1988.86	16840.10	0.00	1988.86	
IOWA									
74041	IA	DAVENPORT SMALL BOAT HBR	NCR	4.94	4.94	0.00	0.00	4.94	SINGLE PUR NAV
88828	IA	FORT MADISON HARBOR, IA	NCR	72.21	72.21	0.00	0.00	72.21	SINGLE PUR NAV
74251	IA	MUSCATINE HBR	NCS	16.00	16.00	0.00	0.00	16.00	SINGLE PUR NAV
		TOTAL		93.15	93.15	0.00	0.00	93.15	
ILLINOIS									
74228	IL	ANDALUSIA HBR, IL	NCR	42.07	42.07	0.00	0.00	42.07	SINGLE PUR NAV

TABLE 21S

SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO INLAND WATERWAY FUEL TAX
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
8218	IL	LAKE MICHIGAN DIVERSION,IL	NCC	406.31	406.31	0.00	0.00	406.31	SINGLE PUR NAV
88825	IL	ROCK ISLAND SM BOAT HARBOR	NCR	65.97	65.97	0.00	0.00	65.97	SINGLE PUR NAV
		TOTAL		514.35	514.35	0.00	0.00	514.35	
INDIANA									
87387	IN	BURNS WATER WAY SBH	NCC	137.50	137.50	0.00	0.00	137.50	SINGLE PUR NAV
		TOTAL		137.50	137.50	0.00	0.00	137.50	
KENTUCKY									
10220	KY	LICKING RIVER OPEN CHANNEL	ORL	10.66	10.66	0.00	0.00	10.66	SINGLE PUR NAV
22020	KY	STAHR HBR, HICKMAN PORT	LMM	302.37	302.37	0.00	0.00	302.37	SINGLE PUR NAV
		TOTAL		313.03	313.03	0.00	0.00		
LOUISIANA									
900	LA	BARATARIA BAY WW LA	LMN	2141.88	2141.88	0.00	0.00	2141.88	SINGLE PUR NAV
158	LA	BAYOU LACOMBE	LMN	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
24	LA	BAYOU SEGNETTE WWY, LA	LMN	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
1150	LA	BAYOU TECH LA	LMN	173.77	173.77	0.00	0.00	173.77	SINGLE PUR NAV
1160	LA	BAYOU TECH VERMILLION R LA	LMN	58.58	58.58	0.00	0.00	58.58	SINGLE PUR NAV
2310	LA	BYU LAFOURCHE & JUMP WW,LA	LMN	8.66	8.66	0.00	0.00	8.66	SINGLE PUR NAV
2330	LA	CADDO LAKE LA TX	LMK	127.50	0.00	62.90	64.60	6.46	MULTI WO ALLOC
6200	LA	FRESHWATER BAYOU LA	LMN	1664.40	1664.40	0.00	0.00	1664.40	SINGLE PUR NAV
9360	LA	LAKE PROVIDENCE HBR LA	LMK	203.92	203.92	0.00	0.00	203.92	SINGLE PUR NAV
87168	LA	MADISON PARISH PORT	LMK	40.00	40.00	0.00	0.00	40.00	SINGLE PUR NAV
63	LA	MISS R OUTLTS VENICE LA	LMN	1870.38	1870.38	0.00	0.00	1870.38	SINGLE PUR NAV
99984	LA	MR&T-BATON ROUGE HBR	LMV	405.00	405.00	0.00	0.00	405.00	SINGLE PUR NAV

TABLE 21S

SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO INLAND WATERWAY FUEL TAX
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
22390	LA	PETIT ANSE,TIGRE,CARLIN BY	LMN	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
17970	LA	TANGIPOHOA RV LA	LMN	57.32	57.32	0.00	0.00	57.32	SINGLE PUR NAV
201	LA	TICKFAW & NATALBANY	LMN	1.40	1.40	0.00	0.00	1.40	SINGLE PUR NAV
202	LA	WW FM EMPIRE TO GULF LA	LMN	63.23	63.23	0.00	0.00	63.23	SINGLE PUR NAV
188	LA	WW IWW TO BAYOU DULAC LA	LMN	18.52	18.52	0.00	0.00	18.52	SINGLE PUR NAV
		TOTAL		6634.56	6707.06	62.90	64.60	6713.52	
MASSACHUSETTS									
87009	MA	ANDREWS RVR MA	NED	-0.62	-0.62	0.00	0.00	-0.62	SINGLE PUR NAV
39001	MA	CHATHAM HBR MA	NED	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
3560	MA	COHASSET HBR MA	NED	16.89	16.89	0.00	0.00	16.89	SINGLE PUR NAV
409	MA	CUTTYHUNK HBR MA	NED	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
5080	MA	DUXBURY HBR MA	NED	763.90	763.90	0.00	0.00	763.90	SINGLE PUR NAV
6920	MA	GREEN HBR MA	NED	229.08	229.08	0.00	0.00	229.08	SINGLE PUR NAV
421	MA	HYANNIS HBR MA	NED	53.00	53.00	0.00	0.00	53.00	SINGLE PUR NAV
39018	MA	NEWBURYPORT HBR MA	NED	338.83	338.83	0.00	0.00	338.83	SINGLE PUR NAV
438	MA	ROCKPORT HBR MA	NED	6.15	6.15	0.00	0.00	6.15	SINGLE PUR NAV
39065	MA	SCITUATE HARBOR, MA	NED	438.69	438.69	0.00	0.00	438.69	SINGLE PUR NAV
452	MA	WELLFLEET HBR MA	NED	-0.08	-0.08	0.00	0.00	-0.08	SINGLE PUR NAV
		TOTAL		1845.84	1845.84	0.00	0.00	1845.84	
MARYLAND									
73554	MD	BROAD CK MD	NAB	139.83	139.83	0.00	0.00	139.83	SINGLE PUR NAV
73557	MD	CHESTER RVR MD	NAB	63.45	63.45	0.00	0.00	63.45	SINGLE PUR NAV
51950	MD	CRISFIELD HBR MD	NAB	35.54	35.54	0.00	0.00	35.54	SINGLE PUR NAV
73583	MD	FISHING BAY MD	NAB	67.34	67.34	0.00	0.00	67.34	SINGLE PUR NAV

TABLE 21S

SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO INLAND WATERWAY FUEL TAX
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
73584	MD	FISHING CK MD	NAB	20.21	20.21	0.00	0.00	20.21	SINGLE PUR NAV
73585	MD	HERRING B ROCKHD CK MD	NAB	0.10	0.10	0.00	0.00	0.10	SINGLE PUR NAV
62011	MD	HERRING CK TALL TIMBERS MD	NAB	35.73	35.73	0.00	0.00	35.73	SINGLE PUR NAV
22690	MD	HONGA R TAR BAY MD	NAB	715.48	715.48	0.00	0.00	715.48	SINGLE PUR NAV
73588	MD	ISLAND CK ST. GEO IS MD	NAB	0.91	0.91	0.00	0.00	0.91	SINGLE PUR NAV
73589	MD	KNAPPS NARROWS	NAB	404.50	404.50	0.00	0.00	404.50	SINGLE PUR NAV
40025	MD	MUDDY HOOK/TYLER COVES MD	NAB	9.47	9.47	0.00	0.00	9.47	SINGLE PUR NAV
73564	MD	NANTICOKE AT NANTICOKE	NAB	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
73549	MD	NANTICOKE RV DE MD	NAB	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
27009	MD	NORTHEAST RVR MD	NAB	27.74	27.74	0.00	0.00	27.74	SINGLE PUR NAV
73567	MD	OCEAN CTY HBR SNPXENT BY	NAB	125.28	125.28	0.00	0.00	125.28	SINGLE PUR NAV
73570	MD	POCOMOKE RIVER MD	NAB	0.57	0.57	0.00	0.00	0.57	SINGLE PUR NAV
73574	MD	RHODES PT TO TYLERTON MD	NAB	-38.95	-38.95	0.00	0.00	-38.95	SINGLE PUR NAV
87544	MD	SHALLOW CREEK,MD	NAB	25.00	25.00	0.00	0.00	25.00	SINGLE PUR NAV
40108	MD	TILGHMAN IS HBR MD	NAB	36.83	36.83	0.00	0.00	36.83	SINGLE PUR NAV
73600	MD	TRED AVON RVR MD	NAB	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
73602	MD	TWITCH CV THOROFARE R MD	NAB	115.05	115.05	0.00	0.00	115.05	SINGLE PUR NAV
73606	MD	WICOMICO RVR MD	NAB	123.46	123.46	0.00	0.00	123.46	SINGLE PUR NAV
		TOTAL		1907.54	1907.54	0.00	0.00	1907.54	
MAINE									
339	ME	CRIEHAVEN HBR ME	NED	79.13	79.13	0.00	0.00	79.13	SINGLE PUR NAV
39054	ME	JOSIAS R ME	NED	1.91	1.91	0.00	0.00	1.91	SINGLE PUR NAV
8900	ME	KENNEBUNK RVR ME	NED	35.84	35.84	0.00	0.00	35.84	SINGLE PUR NAV
15640	ME	ROYAL RVR ME	NED	194.84	194.84	0.00	0.00	194.84	SINGLE PUR NAV
15860	ME	SACO RVR ME	NED	0.19	0.19	0.00	0.00	0.19	SINGLE PUR NAV

TABLE 21S

SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO INLAND WATERWAY FUEL TAX
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
21800	ME	SCARBORO RIVER, ME	NED	36.24	36.24	0.00	0.00	36.24	SINGLE PUR NAV
8193	ME	SESUIT HBR	NED	132.59	132.59	0.00	0.00	132.59	SINGLE PUR NAV
387	ME	UNION RIVER,ME	NED	19.99	19.99	0.00	0.00	19.99	SINGLE PUR NAV
39023	ME	WELLS HBR ME	NED	32.17	32.17	0.00	0.00	32.17	SINGLE PUR NAV
72501	ME	YORK HARBOR, ME	NED	585.59	585.59	0.00	0.00	585.59	SINGLE PUR NAV
		TOTAL		1118.49	1118.49	0.00	0.00	1118.49	
MICHIGAN									
46063	MI	ARCADIA HBR MI	NCE	124.33	124.33	0.00	0.00	124.33	SINGLE PUR NAV
76062	MI	BAY PORT HARBOR, MI	NCE	0.43	0.43	0.00	0.00	0.43	SINGLE PUR NAV
1410	MI	BIG BAY HBR MI	NCE	0.50	0.50	0.00	0.00	0.50	SINGLE PUR NAV
1640	MI	BLACK R UPR PEN	NCE	1.24	1.24	0.00	0.00	1.24	SINGLE PUR NAV
87750	MI	BOLLES HARBOR MI	NCE	29.58	29.58	0.00	0.00	29.58	SINGLE PUR NAV
74199	MI	CASEVILLE HARBOR MI	NCE	221.72	221.72	0.00	0.00	221.72	SINGLE PUR NAV
3490	MI	CLINTON RIV MI	NCE	2.95	2.95	0.00	0.00	2.95	SINGLE PUR NAV
22870	MI	EAGLE HBR MI	NCE	4.00	4.00	0.00	0.00	4.00	SINGLE PUR NAV
6730	MI	GRAND TRAVERSE HBR MI	NCE	3.57	3.57	0.00	0.00	3.57	SINGLE PUR NAV
46103	MI	GREILICKVILLE HARBOR, MI	NCE	18.67	18.67	0.00	0.00	18.67	SINGLE PUR NAV
74208	MI	HAMMOND BAY HBR MI	NCE	0.14	0.14	0.00	0.00	0.14	SINGLE PUR NAV
53550	MI	HARRISVILLE HARBOR MI	NCE	-0.40	-0.40	0.00	0.00	-0.40	SINGLE PUR NAV
48140	MI	INLAND ROUTE MICHIGAN	NCE	38.18	38.18	0.00	0.00	38.18	SINGLE PUR NAV
9210	MI	LAC LA BELLE HBR MI	NCE	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
46018	MI	LELAND HBR MI	NCE	288.80	288.80	0.00	0.00	288.80	SINGLE PUR NAV
74006	MI	LEXINGTON HARBOR MI	NCE	178.32	178.32	0.00	0.00	178.32	SINGLE PUR NAV
73909	MI	LEXINGTON HBR MIT SHR DAM	NCE	97.00	97.00	0.00	0.00	97.00	SINGLE PUR NAV
9890	MI	LITTLE LAKE HBR MI	NCE	69.24	69.24	0.00	0.00	69.24	SINGLE PUR NAV

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SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO INLAND WATERWAY FUEL TAX
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
1020	MI	NEW BUFFALO HBR MI	NCE	359.89	359.89	0.00	0.00	359.89	SINGLE PUR NAV
46039	MI	PORT SANILAC HBR MI	NCE	137.50	137.50	0.00	0.00	137.50	SINGLE PUR NAV
14410	MI	PORT SANILAC HBR MIT SHR D	NCE	61.26	61.26	0.00	0.00	61.26	SINGLE PUR NAV
74213	MI	PT AUSTIN HBR MI	NCE	0.13	0.13	0.00	0.00	0.13	SINGLE PUR NAV
14220	MI	PT LOOKOUT HBR MI	NCE	2.38	2.38	0.00	0.00	2.38	SINGLE PUR NAV
16390	MI	SAUGATUCK HBR MI	NCE	220.81	220.81	0.00	0.00	220.81	SINGLE PUR NAV
76061	MI	SEBEWAING RIVER MI	NCE	467.91	467.91	0.00	0.00	467.91	SINGLE PUR NAV
17180	MI	SOUTH HAVEN HBR MI	NCE	1.70	1.70	0.00	0.00	1.70	SINGLE PUR NAV
17181	MI	SOUTH HAVEN HBR MIT SHR DM	NCE	0.04	0.04	0.00	0.00	0.04	SINGLE PUR NAV
74019	MI	TAWAS BAY HARBOR, MI	NCE	0.90	0.90	0.00	0.00	0.90	SINGLE PUR NAV
		TOTAL		2330.79	2330.79	0.00	0.00	2330.79	
MINNESOTA									
11310	MN	MINNESOTA RIVER MN	NCS	264.03	264.03	0.00	0.00	264.03	SINGLE PUR NAV
88809	MN	RED WING COMMERCIAL HBR	NCS	16.84	16.84	0.00	0.00	16.84	SINGLE PUR NAV
88807	MN	ST. PAUL SML BT HBR, MN	NCS	45.00	45.00	0.00	0.00	45.00	SINGLE PUR NAV
48011	MN	WARROAD HBR MN	NCS	233.46	233.46	0.00	0.00	233.46	SINGLE PUR NAV
88816	MN	WINONA SMALL BOAT HBR	NCS	23.00	23.00	0.00	0.00	23.00	SINGLE PUR NAV
87343	MN	ZIPPEL BAY SM BOAT HBR, MN	NCS	0.06	0.06	0.00	0.00	0.06	SINGLE PUR NAV
		TOTAL		582.39	582.39	0.00	0.00	582.39	
MISSOURI									
87092	MO	CARUTHERSVILLE HBR MO	LMM	155.10	155.10	0.00	0.00	155.10	SINGLE PUR NAV
33012	MO	NEW MADRID HBR MO	LMM	167.69	167.69	0.00	0.00	167.69	SINGLE PUR NAV
87404	MO	SOUTHEAST MO PORT,MS R, MO	LMS	271.45	271.45	0.00	0.00	271.45	SINGLE PUR NAV
		TOTAL		594.24	594.24	0.00	0.00	594.24	

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SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO INLAND WATERWAY FUEL TAX
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
MISSISSIPPI									
1520	MS	BILOXI HBR MS	SAM	284.01	284.01	0.00	0.00	284.01	SINGLE PUR NAV
20600	MS	CADET BAYOU MS	SAM	301.33	301.33	0.00	0.00	301.33	SINGLE PUR NAV
87249	MS	CLAIBORNE CO PORT MS	LMK	133.50	133.50	0.00	0.00	133.50	SINGLE PUR NAV
493	MS	MOUTH OF YAZOO RIVER, MS	LMK	147.31	147.31	0.00	0.00	147.31	SINGLE PUR NAV
99982	MS	MR&T-GREENVILLE HBR	LMV	170.00	170.00	0.00	0.00	170.00	SINGLE PUR NAV
99983	MS	MR&T-VICKSBURG HBR	LMV	209.00	209.00	0.00	0.00	209.00	SINGLE PUR NAV
74564	MS	PASS CHRISTIAN HBR MS	SAM	66.59	66.59	0.00	0.00	66.59	SINGLE PUR NAV
87072	MS	ROSEDALE HBR MS	LMK	142.44	142.44	0.00	0.00	142.44	SINGLE PUR NAV
20160	MS	WOLF & JORDAN RVRS, MS	SAM	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
20350	MS	YAZOO RIVER MS	LMK	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
		TOTAL		1454.18	1454.18	0.00	0.00	1454.18	
NORTH CAROLINA									
1290	NC	BELHAVEN HBR NC	SAW	40.37	40.37	0.00	0.00	40.37	SINGLE PUR NAV
73752	NC	CHOWAN R NC	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
26060	NC	DRUM INLET NC	SAW	72.06	72.06	0.00	0.00	72.06	SINGLE PUR NAV
10020	NC	LOCKWD FOLLY R NC	SAW	658.73	658.73	0.00	0.00	658.73	SINGLE PUR NAV
10580	NC	MANTEO BAY NC	SAW	3309.61	3309.61	0.00	0.00	3309.61	SINGLE PUR NAV
74615	NC	PAMLICO & TAR R NC	SAW	132.34	132.34	0.00	0.00	132.34	SINGLE PUR NAV
22510	NC	ROANOKE RVR NC	SAW	78.00	78.00	0.00	0.00	78.00	SINGLE PUR NAV
15490	NC	ROLLINSON CH NC	SAW	0.31	0.31	0.00	0.00	0.31	SINGLE PUR NAV
16800	NC	SILVER LKE HBR NC	SAW	45.44	45.44	0.00	0.00	45.44	SINGLE PUR NAV
74632	NC	WW CONN PAMLI SD BEAU HB	SAW	12.71	12.71	0.00	0.00	12.71	SINGLE PUR NAV
		TOTAL		4349.57	4349.57	0.00	0.00	4349.57	

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SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO INLAND WATERWAY FUEL TAX
NAVIGATION COST RECOVERY ANALYSIS BY STATE
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FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
NEW HAMPSHIRE									
39063	NH	HAMPTON HBR NH	NED	3.05	3.05	0.00	0.00	3.05	SINGLE PUR NAV
509	NH	LITTLE HARBOR, NH	NED	22.82	22.82	0.00	0.00	22.82	SINGLE PUR NAV
		TOTAL		25.87	25.87	0.00	0.00	25.87	
NEW JERSEY									
950	NJ	BARNEGAT INLET NJ	NAP	1211.58	1211.58	0.00	0.00	1211.58	SINGLE PUR NAV
87211	NJ	CEDAR CREEK	NAP	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
73626	NJ	CHEESEQUAKE CREEK, NJ	NAN	10.80	10.80	0.00	0.00	10.80	SINGLE PUR NAV
3540	NJ	COHANSEY RIVER NJ	NAP	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
8980	NJ	KEYPORT HBR NJ	NAN	0.49	0.49	0.00	0.00	0.49	SINGLE PUR NAV
10450	NJ	MANASQUAN RVR NJ	NAP	324.94	324.94	0.00	0.00	324.94	SINGLE PUR NAV
10410	NJ	MATAWAN CREEK NJ	NAN	0.80	0.80	0.00	0.00	0.80	SINGLE PUR NAV
73841	NJ	MAURICE RIVER NJ	NAP	617.93	617.93	0.00	0.00	617.93	SINGLE PUR NAV
8190	NJ	NJ IWW	NAP	2507.44	2507.44	0.00	0.00	2507.44	SINGLE PUR NAV
73892	NJ	RACCOON CRK NJ	NAP	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
41007	NJ	SHARK RVR NJ	NAN	70.41	70.41	0.00	0.00	70.41	SINGLE PUR NAV
41035	NJ	SHOAL HBR CMPTN CK NJ	NAN	113.39	113.39	0.00	0.00	113.39	SINGLE PUR NAV
16780	NJ	SHREWSBURY RVR NJ	NAN	611.26	611.26	0.00	0.00	611.26	SINGLE PUR NAV
73894	NJ	TOMS RIVER, NJ	NAP	1.68	1.68	0.00	0.00	1.68	SINGLE PUR NAV
18580	NJ	TUCKERTON CREEK	NAP	5.83	5.83	0.00	0.00	5.83	SINGLE PUR NAV
		TOTAL		5476.55	5476.55	0.00	0.00	5476.55	
NEW YORK									
41057	NY	BRONX RVR NY	NAN	39.33	39.33	0.00	0.00	39.33	SINGLE PUR NAV

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SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO INLAND WATERWAY FUEL TAX
NAVIGATION COST RECOVERY ANALYSIS BY STATE
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FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
41022	NY	BROWN CK NY	NAN	0.33	0.33	0.00	0.00	0.33	SINGLE PUR NAV
73920	NY	CATTARAUGUS CRK NY	NCB	5.50	5.50	0.00	0.00	5.50	SINGLE PUR NAV
5220	NY	E ROCKAWAY INLET NY	NAN	2733.54	2733.54	0.00	0.00	2733.54	SINGLE PUR NAV
41004	NY	EAST CHESTER CRK NY	NAN	39.63	39.63	0.00	0.00	39.63	SINGLE PUR NAV
5880	NY	FIRE I INLT TO JONES NY	NAN	250.17	250.17	0.00	0.00	250.17	MULTI WO ALLOC
73686	NY	GLEN COVE CRK NY	NAN	437.74	437.74	0.00	0.00	437.74	SINGLE PUR NAV
8220	NY	IRONDEQUOIT BAY, NY	NCB	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
41006	NY	JONES INLT NY	NAN	4620.10	4620.10	0.00	0.00	4620.10	SINGLE PUR NAV
9340	NY	LAKE MONTAUK HBR NY	NAN	960.53	960.53	0.00	0.00	960.53	SINGLE PUR NAV
41082	NY	MATTITUCK HBR NY	NAN	1003.18	1003.18	0.00	0.00	1003.18	SINGLE PUR NAV
11250	NY	MILTON HBR NY	NAN	0.03	0.03	0.00	0.00	0.03	SINGLE PUR NAV
12200	NY	NRWS LKE CHAMPLAIN NY VT	NAN	46.33	46.33	0.00	0.00	46.33	SINGLE PUR NAV
12980	NY	OAK ORCHARD HBR NY	NCB	0.18	0.18	0.00	0.00	0.18	SINGLE PUR NAV
44066	NY	OLCOTT HBR NY	NCB	4.23	4.23	0.00	0.00	4.23	SINGLE PUR NAV
73747	NY	PORT CHESTER HBR NY	NAN	44.60	44.60	0.00	0.00	44.60	SINGLE PUR NAV
73705	NY	RONDOUT HARBOR NY	NAN	0.23	0.23	0.00	0.00	0.23	SINGLE PUR NAV
73644	NY	SHINNECOCK INLET NY	NAN	49.75	49.75	0.00	0.00	49.75	SINGLE PUR NAV
87433	NY	STURGEON POINT, NY	NCB	66.40	66.40	0.00	0.00	66.40	SINGLE PUR NAV
41003	NY	WESTCHESTER CK NY	NAN	39.94	39.94	0.00	0.00	39.94	SINGLE PUR NAV
73938	NY	WILSON HBR NY	NCB	0.23	0.23	0.00	0.00	0.23	SINGLE PUR NAV
		TOTAL		10341.97	10341.97	0.00	0.00	10341.97	
OHIO									
21540	OH	PORT CLINTON HBR OH	NCB	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
44072	OH	ROCKY R HBR OH	NCB	62.45	62.45	0.00	0.00	62.45	SINGLE PUR NAV
44003	OH	VERMILLION HBR OH	NCB	158.71	158.71	0.00	0.00	158.71	SINGLE PUR NAV

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SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO INLAND WATERWAY FUEL TAX
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
74025	OH	WEST HBR, OH	NCB	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
		TOTAL		221.16	221.16	0.00	0.00	221.16	
OREGON									
3130	OR	CHETCO RIVER	NPP	463.98	463.98	0.00	0.00	463.98	SINGLE PUR NAV
23080	OR	COLUM. R. BTN CHNK SD IS	NPP	1037.17	1037.17	0.00	0.00	1037.17	SINGLE PUR NAV
3570	OR	COLUMBIA R BAKER BAY	NPP	1.60	1.60	0.00	0.00	1.60	SINGLE PUR NAV
3900	OR	COQUILLE R OR	NPP	160.93	160.93	0.00	0.00	160.93	SINGLE PUR NAV
4610	OR	DEPOE BAY OR	NPP	39.37	39.37	0.00	0.00	39.37	SINGLE PUR NAV
15600	OR	ROGUE RVR HBR GOLD BH	NPP	998.18	998.18	0.00	0.00	998.18	SINGLE PUR NAV
20300	OR	YAQUINA RVR OR	NPP	328.10	328.10	0.00	0.00	328.10	SINGLE PUR NAV
		TOTAL		3029.33	3029.33	0.00	0.00	3029.33	
RHODE ISLAND									
556	RI	BULLOCKS PT CVE RI	NED	-8.80	-8.80	0.00	0.00	-8.80	SINGLE PUR NAV
562	RI	LITTLE NARRAGANSETT BAY	NED	174.95	174.95	0.00	0.00	174.95	SINGLE PUR NAV
87008	RI	PATCHOGUE RVR RI CONN	NED	6.52	6.52	0.00	0.00	6.52	SINGLE PUR NAV
		TOTAL		172.67	172.67	0.00	0.00	172.67	
SOUTH CAROLINA									
87533	SC	BROOKGREEN GARDEN CANAL	SAC	0.02	0.02	0.00	0.00	0.02	SINGLE PUR NAV
87088	SC	FOLLY RVR SC	SAC	252.12	252.12	0.00	0.00	252.12	SINGLE PUR NAV
88855	SC	JEREMY CREEK SC	SAC	0.02	0.02	0.00	0.00	0.02	SINGLE PUR NAV
9930	SC	LITTLE RIVER INLET SC	SAC	26.65	26.65	0.00	0.00	26.65	SINGLE PUR NAV
12030	SC	MURRELLS INLET SC	SAC	40.01	40.01	0.00	0.00	40.01	SINGLE PUR NAV
		TOTAL		318.82	318.82	0.00	0.00	318.82	

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SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO INLAND WATERWAY FUEL TAX
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
TENNESSEE									
99981	TN	MR&T-MCKELLER LK HBR	LMV	1930.00	1930.00	0.00	0.00	1930.00	SINGLE PUR NAV
20150	TN	WOLF RVR HBR TN	LMM	314.59	314.59	0.00	0.00	314.59	SINGLE PUR NAV
		TOTAL		2244.59	2244.59	0.00	0.00	2244.59	
TEXAS									
1350	TX	BENBROOK LAKE TX	SWF	1733.20	117.30	1615.90	0.00	117.30	MULTI W ALLOC
2810	TX	CEDAR BAYOU TX	SWG	626.82	626.82	0.00	0.00	626.82	SINGLE PUR NAV
6760	TX	GRAPEVINE LAKE TX	SWF	1950.00	19.90	1930.10	0.00	19.90	MULTI W ALLOC
18510	TX	TRINITY RIVER, TX	SWG	701.70	701.70	0.00	0.00	701.70	SINGLE PUR NAV
		TOTAL		5011.72	1465.72	3546.00	0.00	1465.72	
VIRGINIA									
30580	VA	APPOMATTOX RIVER VA	NAO	54.81	54.81	0.00	0.00	54.81	SINGLE PUR NAV
27028	VA	BLACKWATER RIVER, VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
582	VA	BROAD CREEK VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
10890	VA	CHINCOTEAGUE BAY VA	NAO	11.73	11.73	0.00	0.00	11.73	SINGLE PUR NAV
5841	VA	CHINCOTEAGUE HBR REFG VA	NAO	9.99	9.99	0.00	0.00	9.99	SINGLE PUR NAV
76106	VA	CHINCOTEAGUE INLET VA	NAO	816.45	816.45	0.00	0.00	816.45	SINGLE PUR NAV
585	VA	CRANES CREEK VA	NAO	119.95	119.95	0.00	0.00	119.95	SINGLE PUR NAV
75117	VA	DEEP CR NEWPORT NEWS VA	NAO	594.47	594.47	0.00	0.00	594.47	SINGLE PUR NAV
780	VA	GREENVALE CK, LANE CO, VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
73776	VA	HORN HARBOR, VA	NAO	9.26	9.26	0.00	0.00	9.26	SINGLE PUR NAV
20920	VA	HOSKINS CREEK, VA	NAO	324.79	324.79	0.00	0.00	324.79	SINGLE PUR NAV
73778	VA	LAFAYETTE RIVER, VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV

TABLE 21S

SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO INLAND WATERWAY FUEL TAX
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE	
9980	VA	LITTLE WICOMICO RVR VA	NAB	37.00	37.00	0.00	0.00	37.00	SINGLE PUR NAV	
10310	VA	LYNNHAVEN INLET VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	
592	VA	MONROE BAY CK VA	NAB	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	
73784	VA	NANSEMOND RIVER VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	
73542	VA	NEABSCO CK VA	NAB	35.85	35.85	0.00	0.00	35.85	SINGLE PUR NAV	
21640	VA	NEWPORT NEWS CREEK	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	
73789	VA	NOTTOWAY RIVER	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	
73792	VA	OYSTER CREEK VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	
73793	VA	PAGAN RIVER, VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	
76011	VA	PARKER CRK VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	
795	VA	QUEENS CREEK VA	NAO	161.68	161.68	0.00	0.00	161.68	SINGLE PUR NAV	
14770	VA	QUINBY CRK VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	
14850	VA	RAPPAHANNOCK R VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	
87455	VA	RUDEE INLET, VIRGINIA	NAO	442.73	442.73	0.00	0.00	442.73	SINGLE PUR NAV	
42001	VA	STARLINGS CREEK VA	NAO	244.28	244.28	0.00	0.00	244.28	SINGLE PUR NAV	
27650	VA	TANGIER CHANNEL VA	NAO	529.10	529.10	0.00	0.00	529.10	SINGLE PUR NAV	
76107	VA	TYLERS BEACH VA	NAO	32.09	32.09	0.00	0.00	32.09	SINGLE PUR NAV	
605	VA	WHITINGS CREEK , MIDDLE	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	
73801	VA	WILLOUGHBY CHANNEL, VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	
73802	VA	WINTER HARBOR VA	NAO	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV	
19550	VA	WW COAST OF VA	NAO	1371.59	1371.59	0.00	0.00	1371.59	SINGLE PUR NAV	
		TOTAL		4795.77	4795.77	0.00	0.00	4795.77	0.00	0.00
VERMONT										
73727	VT	BURLINGTON HARBOR, VT	NAN	0.49	0.49	0.00	0.00	0.49	SINGLE PUR NAV	
		TOTAL		0.49	0.49	0.00	0.00	0.49		

TABLE 21S

SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO INLAND WATERWAY FUEL TAX
NAVIGATION COST RECOVERY ANALYSIS BY STATE
OPERATION AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (ACTUAL)

PWI	STATE	NAME	DIV/ DIST	TOTAL COST	NAVIGATION COST	OTHER COST	JOINTUSE COST	RECOVERY COST	PROJECT TYPE
WASHINGTON									
14760	WA	QUILLAYUTE RIVER	NPS	4373.19	4373.19	0.00	0.00	4373.19	SINGLE PUR NAV
17870	WA	SWINOMISH CHANNEL	NPS	0.73	0.73	0.00	0.00	0.73	SINGLE PUR NAV
		TOTAL		4373.92	4373.92	0.00	0.00	4373.92	
WISCONSIN									
74177	WI	ALGOMA HARBOR WI	NCE	205.74	205.74	0.00	0.00	205.74	SINGLE PUR NAV
612	WI	BIG SUAMICO HARBOR	NCE	0.20	0.20	0.00	0.00	0.20	SINGLE PUR NAV
3970	WI	CORNUCOPIA HBR WI	NCE	4.98	4.98	0.00	0.00	4.98	SINGLE PUR NAV
6610	WI	FOX RIVER WI	NCE	2117.30	2117.30	0.00	0.00	2117.30	SINGLE PUR NAV
74189	WI	PENSAUKEE HBR WI	NCE	0.03	0.03	0.00	0.00	0.03	SINGLE PUR NAV
16500	WI	SAXON HBR WI	NCE	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
		TOTAL		2328.25	2328.25	0.00	0.00	2328.25	
WEST VIRGINIA									
10222	WV	BIG SANDY HARBOR	ORH	1060.34	1060.34	0.00	0.00	1060.34	SINGLE PUR NAV
88833	WV	ELK RIVER HARBOR	ORH	0.60	0.60	0.00	0.00	0.60	SINGLE PUR NAV
10221	WV	PORTSMOUTH HARBOR	ORH	0.00	0.00	0.00	0.00	0.00	SINGLE PUR NAV
		TOTAL		1060.94	1060.94	0.00	0.00	1060.94	
		TOTAL ALL STATES		96100.77	74258.17	21778.00	64.60	74264.63	

Navigation Operation and Maintenance:
Expenditures for Harbors and Waterways
Fiscal Year 1996

APPENDIX F - Deep Draft Navigation Projects, Navigation Cost Recovery Analysis by Segment, O&M Expenditures for FY 1996 (Estimated - President's Budget).

TABLE 1D

DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (EST. PRES)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
4	MISS R-B RGE TO GULF LA	LMN	51837.00	51837.00	0.00	0.00	51836.00	SINGLE PUR NAV	68
4	ATCH R MORGAN CTY-GULG LA	LMN	12786.00	12786.00	0.00	0.00	12786.00	SINGLE PUR NAV	680
4	BRAZOS IS TX	SWG	1038.00	1038.00	0.00	0.00	1038.00	SINGLE PUR NAV	1990
4	CALCASIEU R PASS LA	LMN	4095.00	4095.00	0.00	0.00	4095.00	SINGLE PUR NAV	2440
4	FREEPORT HBR TX	SWG	2870.00	2870.00	0.00	0.00	2870.00	SINGLE PUR NAV	6170
4	GALVESTON HBR CH TX	SWG	136.00	136.00	0.00	0.00	136.00	SINGLE PUR NAV	6340
4	HOUMA HAV CANAL LA	LMN	3897.00	3897.00	0.00	0.00	3897.00	SINGLE PUR NAV	7760
4	HOUSTON SHIP CHNL	SWG	5823.00	5823.00	0.00	0.00	5823.00	SINGLE PUR NAV	7780
4	NATAGORDA SHIP CHNL TX	SWG	5145.00	5145.00	0.00	0.00	5145.00	SINGLE PUR NAV	10810
4	MERMENTAU RIVER LA	LMN	2081.00	2081.00	0.00	0.00	2081.00	MULTI WO ALLOC	11030
4	MISS R-GULF OUTLET LA	LMN	12054.00	12054.00	0.00	0.00	12054.00	SINGLE PUR NAV	11410
4	CORPUS CHRISTI CH TX	SWG	2190.00	2190.00	0.00	0.00	2190.00	SINGLE PUR NAV	14340
4	SABINE-NECHES WW TX	SWG	11946.00	11946.00	0.00	0.00	11946.00	SINGLE PUR NAV	15780
4	TEXAS CITY TX	SWG	1525.00	1525.00	0.00	0.00	1525.00	SINGLE PUR NAV	18130
4			117423.00	117423.00	0.00	0.00	117423.00		
5	CHARLOTTE HARBOR FL	SAJ	3275.00	3275.00	0.00	0.00	3275.00	SINGLE PUR NAV	3000
5	GULFPORT HARBOR MS	SAM	2876.00	2876.00	0.00	0.00	2876.00	SINGLE PUR NAV	7150
5	MOBILE HBR AL	SAM	17780.00	17780.00	0.00	0.00	17780.00	SINGLE PUR NAV	11670
5	PANAMA CITY HBR FL	SAM	717.00	717.00	0.00	0.00	717.00	SINGLE PUR NAV	13640
5	PASCAGOULA HBR MS	SAM	2998.00	2998.00	0.00	0.00	2998.00	SINGLE PUR NAV	13680
5	PT ST. JOE HBR FL	SAM	72.00	72.00	0.00	0.00	72.00	SINGLE PUR NAV	14390
5	TAMPA HARBOR FL	SAJ	3744.00	3744.00	0.00	0.00	3744.00	SINGLE PUR NAV	17960
5			31462.00	31462.00	0.00	0.00	31462.00		
24	GT SODUS BAY HBR NY	NCB	10.00	10.00	0.00	0.00	10.00	SINGLE PUR NAV	6860
24	OSWEGO HBR NY	NCB	496.00	496.00	0.00	0.00	496.00	SINGLE PUR NAV	13440
24			506.00	506.00	0.00	0.00	506.00		
25	ASUTADULA HBR OH	NCB	1088.00	1088.00	0.00	0.00	1088.00	SINGLE PUR NAV	650
25	BL ROCK CH TONAWANDA HBR	NCB	3205.00	3205.00	0.00	0.00	3205.00	SINGLE PUR NAV	1660

TABLE 1D

DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (EST. PRES)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
25	BUFFALO	NCB	455.00	455.00	0.00	0.00	455.00	SINGLE PUR NAV	2140
25	CLEVELAND HBR OH	NCB	13038.00	13038.00	0.00	0.00	13038.00	SINGLE PUR NAV	3430
25	CONNEAUT HBR OH	NCB	655.00	655.00	0.00	0.00	655.00	SINGLE PUR NAV	3770
25	DETROIT RVR MI	NCE	4729.00	4729.00	0.00	0.00	4729.00	SINGLE PUR NAV	4710
25	ERIE HBR PA	NCB	468.00	468.00	0.00	0.00	468.00	SINGLE PUR NAV	5600
25	HURON HBR OH	NCB	820.00	820.00	0.00	0.00	820.00	SINGLE PUR NAV	7920
25	LORAIN HBR OH	NCB	407.00	407.00	0.00	0.00	407.00	SINGLE PUR NAV	10060
25	MONROE HBR MI	NCE	772.00	772.00	0.00	0.00	772.00	SINGLE PUR NAV	11760
25	ROUGE RVR MI	NCE	297.00	297.00	0.00	0.00	297.00	SINGLE PUR NAV	15590
25	SANDUSKY HBR OH	NCB	1030.00	1030.00	0.00	0.00	1030.00	SINGLE PUR NAV	16260
25	TOLEDO HBR OH	NCB	3502.00	3502.00	0.00	0.00	3502.00	SINGLE PUR NAV	18280
25	DUNKIRK HBR NY	NCB	309.00	309.00	0.00	0.00	309.00	SINGLE PUR NAV	50600
25			30775.00	30775.00	0.00	0.00	30775.00		
26	CHS-LKE ST CLAIR MI	NCE	245.00	245.00	0.00	0.00	245.00	SINGLE PUR NAV	2940
26	HARBOR BEACH HBR MI	NCE	77.00	77.00	0.00	0.00	77.00	SINGLE PUR NAV	7300
26	ST CLAIR RVR MI	NCE	868.00	868.00	0.00	0.00	868.00	SINGLE PUR NAV	17300
26	ST MARYS R MI	NCE	14962.00	9175.00	2487.00	3300.00	9505.00	MULTI WO ALLOC	17380
26	SAGINAW RVR MI	NCE	1802.00	1802.00	0.00	0.00	1802.00	SINGLE PUR NAV	57420
26	ALPENA HBR MI	NCE	218.00	218.00	0.00	0.00	218.00	SINGLE PUR NAV	74196
26			18172.00	18172.00	2487.00	3300.00	12715.00		
27	BURNS WW HBR IN	NCC	1545.00	1545.00	0.00	0.00	1545.00	SINGLE PUR NAV	2250
27	CALUMET HBR R IL	NCC	600.00	600.00	0.00	0.00	600.00	SINGLE PUR NAV	2410
27	CHARLEVOIX	NCE	118.00	118.00	0.00	0.00	118.00	SINGLE PUR NAV	2990
27	CHICAGO RVR IL	NCC	610.00	610.00	0.00	0.00	610.00	SINGLE PUR NAV	3810
27	FRANFORT HBR MI	NCE	372.00	372.00	0.00	0.00	372.00	SINGLE PUR NAV	6130
27	GD HAVEN HBR MI	NCE	739.00	739.00	0.00	0.00	739.00	SINGLE PUR NAV	6670
27	GRAND HAVEN HBR MIT SHR DM	NCE	78.00	78.00	0.00	0.00	78.00	SINGLE PUR NAV	6671
27	GREEN BAY HBR MI	NCE	1029.00	1029.00	0.00	0.00	1029.00	SINGLE PUR NAV	6910
27	HOLLAND HARBOR MI	NCE	358.00	358.00	0.00	0.00	358.00	SINGLE PUR NAV	7610

TABLE 1D

DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (EST. PRES)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
27	HOLLAND HBR MIT SHR DAM MI	NCE	59.00	59.00	0.00	0.00	59.00	SINGLE PUR NAV	7611
27	KENOSHA HARBOR WI	NCE	130.00	130.00	0.00	0.00	130.00	SINGLE PUR NAV	8910
27	LUDINGTON HARBOR MI	NCE	495.00	495.00	0.00	0.00	495.00	SINGLE PUR NAV	10270
27	MANISTEE HARBOR MI	NCE	440.00	440.00	0.00	0.00	440.00	SINGLE PUR NAV	10480
27	MANITOWOC HBR WI	NCE	257.00	257.00	0.00	0.00	257.00	SINGLE PUR NAV	10510
27	MICHIGAN CTY HBR IN	NCC	540.00	540.00	0.00	0.00	540.00	SINGLE PUR NAV	11060
27	MILWAUKEE HBR WI	NCE	3123.00	3123.00	0.00	0.00	3123.00	SINGLE PUR NAV	11270
27	MUSKEGON HBR MO	NCE	694.00	694.00	0.00	0.00	694.00	SINGLE PUR NAV	12060
27	MUSKEGON HARBOR MITIGATION	NCE	111.00	111.00	0.00	0.00	111.00	SINGLE PUR NAV	12061
27	PENTWATER HBR MI	NCE	799.00	799.00	0.00	0.00	799.00	SINGLE PUR NAV	13850
27	ST JOSEPH HBR MI	NCE	495.00	495.00	0.00	0.00	495.00	SINGLE PUR NAV	17350
27	ST. JOSEPH HBR MIT SHR DAM	NCE	585.00	585.00	0.00	0.00	585.00	SINGLE PUR NAV	17351
27	STURGEON B&L MICH CAN, WI	NCE	2831.00	2831.00	0.00	0.00	2831.00	SINGLE PUR NAV	17660
27	INDIANA HBR IN	NCC	320.00	320.00	0.00	0.00	320.00	SINGLE PUR NAV	18120
27	TWO RVRS HBR WI	NCE	760.00	760.00	0.00	0.00	760.00	SINGLE PUR NAV	18710
27	WAUKEGAN HBR IL	NCC	970.00	970.00	0.00	0.00	970.00	SINGLE PUR NAV	19560
27	WHITE LAKE HBR MI	NCE	434.00	434.00	0.00	0.00	434.00	SINGLE PUR NAV	19810
27	CHICAGO HBR IL	NCC	2545.00	2545.00	0.00	0.00	2545.00	SINGLE PUR NAV	45009
27	MENOHINEE HBR MI	NCE	32.00	32.00	0.00	0.00	32.00	SINGLE PUR NAV	15044
27	SHEBUYGAN HBR WI	NCE	883.00	883.00	0.00	0.00	883.00	SINGLE PUR NAV	66700
27	KEWAUNEE HARBOR WI	NCE	300.00	300.00	0.00	0.00	300.00	SINGLE PUR NAV	76050
27			22252.00	22252.00	0.00	0.00	22252.00		
28	DULUTH-SUPERIOR MN	NCE	3396.00	2971.00	425.00	0.00	2971.00	SINGLE PUR NAV	5050
28	KENEENAW WW MI	NCE	1641.00	1641.00	0.00	0.00	1641.00	SINGLE PUR NAV	8960
28	ONTONAGON HBR MI	NCE	455.00	455.00	0.00	0.00	455.00	SINGLE PUR NAV	13330
28	GRAND MARAIS HBR MI	NCE	218.00	218.00	0.00	0.00	218.00	SINGLE PUR NAV	46064
28			5710.00	5285.00	425.00	0.00	5285.00		
29	BALTIMORE HBR DRIFT REMOVL	NAB	455.00	455.00	0.00	0.00	455.00	SINGLE PUR NAV	871
29	BALTIMORE HBR PREV OF OBST	NAB	520.00	520.00	0.00	0.00	520.00	SINGLE PUR NAV	872

TABLE 1D

DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (EST. PRES)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
29	HAMPTON ROADS DRIFT REMOVL	NAO	647.00	647.00	0.00	0.00	647.00	SINGLE PUR NAV	1002
29	BAY RDGE RED HOOK OH NY	NAN	230.00	230.00	0.00	0.00	230.00	SINGLE PUR NAV	1040
29	CAPE COD CNL MA	NED	7399.00	7399.00	688.00	0.00	7399.00	SINGLE PUR NAV	2620
29	DEL RVR BETWN PHILA TREN	NAP	1255.00	1255.00	0.00	0.00	1255.00	SINGLE PUR NAV	4550
29	DEL RVR PA NW PHILA TO S	NAP	18157.00	18157.00	0.00	0.00	18157.00	SINGLE PUR NAV	4570
29	HUDSON R. CHANNEL, NY	NAN	1380.00	1380.00	0.00	0.00	1380.00	SINGLE PUR NAV	7800
29	HUDSON R NY TO ALB (MNI)	NAN	1375.00	1375.00	0.00	0.00	1375.00	SINGLE PUR NAV	7810
29	HUDSON R NY TO ALB (O&C)	NAN	1145.00	1145.00	0.00	0.00	1145.00	SINGLE PUR NAV	7820
29	IWW FM DFL R TO CHPKE B D	NAP	16090.00	16090.00	0.00	0.00	16090.00	SINGLE PUR NAV	8160
29	C&D CAN, ST GEORGES BR DE	NAP	14000.00	14000.00	0.00	0.00	14000.00	SINGLE PUR NAV	8215
29	JAMES RVR VA	NAO	1616.00	1616.00	0.00	0.00	1616.00	SINGLE PUR NAV	8430
29	NEW YORK HARBOR NY	NAN	6020.00	6020.00	0.00	0.00	6020.00	SINGLE PUR NAV	12490
29	NEW YORK HBR DRIFT, NY	NAN	4886.00	4886.00	0.00	0.00	4886.00	SINGLE PUR NAV	12500
29	NY NJ CMS NY NJ	NAN	205.00	205.00	0.00	0.00	205.00	SINGLE PUR NAV	12520
29	NORFOLK HBR CHS VA	NAO	5131.00	5131.00	0.00	0.00	5131.00	SINGLE PUR NAV	12801
29	POTOMAC R. DRIFT REMOVL VA	NAB	785.00	785.00	0.00	0.00	785.00	SINGLE PUR NAV	14520
29	HAMPTON ROADS PRE OF OBST	NAO	200.00	200.00	0.00	0.00	200.00	SINGLE PUR NAV	15170
29	SCHULYKILL R PA	NAP	1930.00	1930.00	0.00	0.00	1930.00	SINGLE PUR NAV	16550
29	NY HARBOR PREV OF OBSTRUCTION	NAN	740.00	740.00	0.00	0.00	740.00	SINGLE PUR NAV	17760
29	WASHINGTON HBR DC	NAB	35.00	35.00	0.00	0.00	35.00	SINGLE PUR NAV	19500
29	WILMINGTON HBR DEL	NAP	2513.00	2513.00	0.00	0.00	2513.00	SINGLE PUR NAV	20040
29	COLD SPRING INLET	NAP	485.00	485.00	0.00	0.00	485.00	SINGLE PUR NAV	22140
29	BUTTERMILK CH NY	NAN	820.00	820.00	0.00	0.00	820.00	SINGLE PUR NAV	41015
29	EAST RIVER NY	NAN	195.00	195.00	0.00	0.00	195.00	SINGLE PUR NAV	41062
29	DEL RIV PHIL TO CAMDEN NJ	NAP	850.00	850.00	0.00	0.00	850.00	SINGLE PUR NAV	43005
29	JAMAICA BAY NY	NAN	220.00	220.00	0.00	0.00	220.00	SINGLE PUR NAV	54000
29	CH TO NEW PORT NEWS VA	NAO	590.00	590.00	0.00	0.00	590.00	SINGLE PUR NAV	73783
29	THIMBLE SHOAL CH VA	NAO	1355.00	1355.00	0.00	0.00	1355.00	SINGLE PUR NAV	73800
29	BALTIMORE HBR & SOFT CHANN	NAB	13425.00	13425.00	0.00	0.00	13425.00	SINGLE PUR NAV	74955
29			104654.00	104654.00	688.00	0.00	104654.00		

TABLE 1D

DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (EST. PRES)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
30	BEAUFORT HBR NC	SAW	350.00	350.00	0.00	0.00	350.00	SINGLE PUR NAV	1210
30	BRUNSWICK HBR	SAS	3411.00	3411.00	0.00	0.00	3411.00	SINGLE PUR NAV	2080
30	CANAVERAL HARBOR FL	SAJ	4736.00	4736.00	0.00	0.00	4736.00	SINGLE PUR NAV	2520
30	CAPE FEAR R ABOVE WILM NC	SAW	1200.00	986.00	214.00	0.00	986.00	SINGLE PUR NAV	2640
30	CHARLESTON HARBOR SC	SAC	5426.00	5426.00	0.00	0.00	5426.00	SINGLE PUR NAV	2980
30	FERNANDINA HARBOR FLA	SAJ	1623.00	1623.00	0.00	0.00	1623.00	SINGLE PUR NAV	5840
30	FORT PIERCE HARBOR FL	SAJ	712.00	712.00	0.00	0.00	712.00	SINGLE PUR NAV	6260
30	GEORGETOWN HARBOR SC	SAC	3509.00	3509.00	0.00	0.00	3509.00	SINGLE PUR NAV	6480
30	JACKSONVILLE HARBOR FL	SAJ	4119.00	4119.00	0.00	0.00	4119.00	SINGLE PUR NAV	8410
30	MOREHD CTY HBR NC	SAW	3108.00	3108.00	0.00	0.00	3108.00	SINGLE PUR NAV	11810
30	PALM BEACH HBR FL	SAJ	1459.00	1459.00	0.00	0.00	1459.00	SINGLE PUR NAV	13590
30	PORT ROYAL HARBOR SC	SAC	1192.00	1192.00	0.00	0.00	1192.00	SINGLE PUR NAV	14380
30	SHIPYARD RVR SC	SAC	428.00	428.00	0.00	0.00	428.00	SINGLE PUR NAV	16730
30	WILMINGTON BW NC	SAW	6048.00	6048.00	0.00	0.00	6048.00	SINGLE PUR NAV	20030
30	COOPER R SC	SAC	2469.00	2453.00	16.00	0.00	2453.00	SINGLE PUR NAV	74354
30	MIAMI HBR FL	SAJ	295.00	295.00	0.00	0.00	295.00	SINGLE PUR NAV	74378
30	SAVANNAH HBR	SAS	8377.00	8377.00	0.00	0.00	8377.00	SINGLE PUR NAV	75085
30			48462.00	48462.00	230.00	0.00	48232.00		
31	EVERETT HBR SNOHOMISH RV	NPS	870.00	870.00	0.00	0.00	870.00	SINGLE PUR NAV	5700
31	LK WASHINTON SHP CNL WA	NPS	6877.00	6421.00	456.00	0.00	6421.00	SINGLE PUR NAV	9400
31	OLYMPIA HBR WA	NPS	12.00	12.00	0.00	0.00	12.00	SINGLE PUR NAV	13320
31	PUGET SOUND ITS TRIB WW	NPS	1155.00	1155.00	0.00	0.00	1155.00	SINGLE PUR NAV	13970
31	SEATTLE HBR WA	NPS	678.00	678.00	0.00	0.00	678.00	SINGLE PUR NAV	67318
31	KENMORE NAVIGATION CH	NPS	202.00	202.00	0.00	0.00	202.00	SINGLE PUR NAV	87153
31			9794.00	9338.00	456.00	0.00	9338.00		
32	COLUMBIA R AT MOTH OR WA	NPP	8013.00	8013.00	0.00	0.00	8013.00	SINGLE PUR NAV	3600
32	COL R BTN VNCR DALLES OR	NPP	420.00	420.00	0.00	0.00	420.00	SINGLE PUR NAV	3620
32	COLMBA LWR WLMTE RVR OR	NPP	11017.00	11017.00	0.00	0.00	11017.00	SINGLE PUR NAV	3630
32	SKIPANON CHANNEL OR	NPP	61.00	61.00	0.00	0.00	61.00	SINGLE PUR NAV	16930

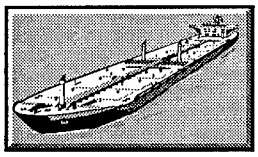
TABLE 1D

DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (EST. PRES)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
32	BONNEVILLE LOCK DAM OR WA	NPP	18788.00	4852.00	13936.00	0.00	4852.00	MULTI W ALLOC	80546
32			38299.00	24363.00	13936.00	0.00	24363.00		
33	COOS BAY OR	NPP	4349.00	4349.00	0.00	0.00	4349.00	SINGLE PUR NAV	3840
33	GRAYS HBR BAY CA	NPS	10655.00	10655.00	0.00	0.00	10655.00	SINGLE PUR NAV	6770
33	HUMBOLDT HDR BAY CA	SPN	4670.00	4670.00	0.00	0.00	4670.00	SINGLE PUR NAV	7860
33	MORRO BAY HBR CA	SPL	2580.00	2580.00	0.00	0.00	2580.00	SINGLE PUR NAV	11860
33	MOSS LANDING HBR CA	SPN	845.00	845.00	0.00	0.00	845.00	SINGLE PUR NAV	11880
33	OCEANSIDE HBR CA	SPL	1045.00	1045.00	0.00	0.00	1045.00	SINGLE PUR NAV	13080
33	CH IS HBR CA	SPL	890.00	890.00	0.00	0.00	890.00	SINGLE PUR NAV	14360
33	PORT ORFORD OR	NPP	425.00	425.00	0.00	0.00	425.00	SINGLE PUR NAV	14370
33	SANTA BARBARA HBR CA	SPL	1038.00	1038.00	0.00	0.00	1038.00	SINGLE PUR NAV	15730
33	SAN DIEGO HBR CA	SPL	1085.00	1085.00	0.00	0.00	1085.00	SINGLE PUR NAV	16110
33	SIUSLAW RIVER OR	NPP	864.00	864.00	0.00	0.00	864.00	SINGLE PUR NAV	16860
33	TILLAMOOK BAY BAR OR	NPP	43.00	43.00	0.00	0.00	43.00	SINGLE PUR NAV	18230
33	UMPQUA RIVER OR	NPP	1094.00	1094.00	0.00	0.00	1094.00	SINGLE PUR NAV	18750
33	WILLAPA HBR	NPS	431.00	431.00	0.00	0.00	431.00	SINGLE PUR NAV	19990
33	YAQUINA BAY HBR OR	NPP	1565.00	1565.00	0.00	0.00	1565.00	SINGLE PUR NAV	20290
33	VENTURA HBR CA	SPL	2288.00	2288.00	0.00	0.00	2288.00	SINGLE PUR NAV	24190
33	PT HUENEME CA	SPL	135.00	135.00	0.00	0.00	135.00	SINGLE PUR NAV	74656
33	LA-LB HARBOR MODEL, CA	SPL	160.00	160.00	0.00	0.00	160.00	SINGLE PUR NAV	76101
33			34162.00	34162.00	0.00	0.00	34162.00		
34	OAKLAND HBR CA	SPN	2205.00	2205.00	0.00	0.00	2205.00	SINGLE PUR NAV	12990
34	REDWOOD CITY HBR CA	SPN	2600.00	2600.00	0.00	0.00	2600.00	SINGLE PUR NAV	15100
34	RICHMOND HBR CA	SPN	6481.00	6481.00	0.00	0.00	6481.00	SINGLE PUR NAV	15280
34	SACRAMENTO RVR CA	SPK	457.00	457.00	0.00	0.00	457.00	SINGLE PUR NAV	15870
34	SAN FRANCISCO HBR CA	SPN	1825.00	1825.00	0.00	0.00	1825.00	SINGLE PUR NAV	16130
34	SAN FRANCISCO HBR DRFT REM	SPN	2195.00	2195.00	0.00	0.00	2195.00	SINGLE PUR NAV	16140
34	SAN JOAQUIN RVR CA	SPK	1659.00	1659.00	0.00	0.00	1659.00	SINGLE PUR NAV	16180
34	S PAULO BAY MRE IS STR CA	SPN	1080.00	1080.00	0.00	0.00	1080.00	SINGLE PUR NAV	16230

TABLE 1D
DEEP DRAFT NAVIGATION PROJECTS
NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (EST. PRES)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
34	S FRANCISCO BAY DLT MDL CA	SPN	2000.00	990.00	1010.00	0.00	990.00	SINGLE PUR NAV	76029
34	SF BAY LONG TERM MGT STRAT	SPN	150.00	150.00	0.00	0.00	150.00	SINGLE PUR NAV	88920
34			21317.00	20307.00	1010.00	0.00	20307.00		
36	ANCHORAGE HBR AK	NPA	1380.00	1380.00	0.00	0.00	1380.00	SINGLE PUR NAV	360
36	HOMER HBR AK	NPA	265.00	265.00	0.00	0.00	265.00	SINGLE PUR NAV	80508
36			1645.00	1645.00	0.00	0.00	1645.00		
37	THOMAS BASIN (KETCHIKAN)	NPA	564.00	564.00	0.00	0.00	564.00	SINGLE PUR NAV	631
37			564.00	564.00	0.00	0.00	564.00		
38	BARBERS POINT HBR, HI	POD	143.00	0.00	143.00	0.00	0.00	SINGLE PUR NAV	910
38			143.00	0.00	143.00	0.00	0.00		
39	SAN JUAN HBR PR	SAJ	10.00	10.00	0.00	0.00	10.00	SINGLE PUR NAV	16190
39			10.00	10.00	0.00	0.00	10.00		
	TOTAL		486038.00	463363.00	19375.00	3300.00	463693.00		



Navigation Operation and Maintenance:
Expenditures for Harbors and Waterways
Fiscal Year 1996

APPENDIX G - Shallow Draft Navigation Projects Not Subject to the InlandWaterway Fuel Tax, Navigation Cost Recovery Analysis by Segment, O&M Expenditures for FY 1996 (Estimated - President's Budget).

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (EST. PRES)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
1	MINNESOTA RIVER MN	NCS	145.00	145.00	0.00	0.00	145.00	SINGLE PUR NAV	11310
1	RHODE ISLAND SM BOAT HARBOR	NCR	123.00	123.00	0.00	0.00	123.00	SINGLE PUR NAV	88825
1			268.00	268.00	0.00	0.00	268.00		
2	SOUTHEAST MO PORT, NS R, MO	LMS	150.00	150.00	0.00	0.00	150.00	SINGLE PUR NAV	87404
2			150.00	150.00	0.00	0.00	150.00		
3	MOUTH OF YAZOO RIVER, MS	LMK	113.00	113.00	0.00	0.00	113.00	SINGLE PUR NAV	493
3	HELENA HBR AR	LMM	500.00	500.00	0.00	0.00	500.00	SINGLE PUR NAV	7440
3	LAKE PROVIDENCE HBR LA	LMK	292.00	292.00	0.00	0.00	292.00	SINGLE PUR NAV	9360
3	OSCEOLA HBR OR	LMM	453.00	453.00	0.00	0.00	453.00	SINGLE PUR NAV	13430
3	WOLF RVR HBR TN	LMM	650.00	650.00	0.00	0.00	650.00	SINGLE PUR NAV	20150
3	YAZOO RIVER MO	LMK	3.00	3.00	0.00	0.00	3.00	SINGLE PUR NAV	20350
3	STAHR HBR, HICKMAN PORT	LMM	400.00	400.00	0.00	0.00	400.00	SINGLE PUR NAV	22020
3	NEW MADRID HBR MO	LMM	300.00	300.00	0.00	0.00	300.00	SINGLE PUR NAV	33012
3	ROSEDALE HBR MS	LMK	410.00	410.00	0.00	0.00	410.00	SINGLE PUR NAV	87012
3	CARUTHERSVILLE HBR MO	LMM	300.00	300.00	0.00	0.00	300.00	SINGLE PUR NAV	87092
3	MADISON PARISH PORT	LMK	37.00	37.00	0.00	0.00	37.00	SINGLE PUR NAV	87168
3	CLAIBORNE CO PORT MS	LMK	153.00	153.00	0.00	0.00	153.00	SINGLE PUR NAV	87249
3	YELLOW BEND PORT, AR	LMK	142.00	142.00	0.00	0.00	142.00	SINGLE PUR NAV	87282
3	MR&T-MCKELLER LI HBR	LMV	1415.00	1415.00	0.00	0.00	1415.00	SINGLE PUR NAV	99981
3	MR&T-GREENVILLE HBR	LMV	258.00	258.00	0.00	0.00	258.00	SINGLE PUR NAV	99982
3	MR&T-VICKSBURG HBR	LMV	223.00	223.00	0.00	0.00	223.00	SINGLE PUR NAV	99983
3	MR&T BATON ROUGE HBR	LMV	150.00	150.00	0.00	0.00	150.00	SINGLE PUR NAV	99984
3			5799.00	5799.00	0.00	0.00	5799.00		
4	MISS R QUILTS VENICE LA	LMN	1645.00	1645.00	0.00	0.00	1645.00	SINGLE PUR NAV	63
4	BARATARIA BAY WH LA	LMN	921.00	921.00	0.00	0.00	921.00	SINGLE PUR NAV	900
4	BAYOU TECH LA	LMN	727.00	727.00	0.00	0.00	727.00	SINGLE PUR NAV	1150
4	BENBROOK LAKE TX	SWF	1610.00	318.00	1292.00	0.00	318.00	MULTI W ALLOC	1350
4	BYU LAFOURGHE&LAFOURGH JUM	LMN	10.00	10.00	0.00	0.00	10.00	SINGLE PUR NAV	2310

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000) FY 1996 (EST. PRES)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
4	FRESHWATER BAYOU LA	LMN	1659.00	1659.00	0.00	0.00	1659.00	SINGLE PUR NAV	6200
4	GRAPEVINE LAKE TX	SWF	1956.00	41.00	1915.00	0.00	41.00	MULTI W ALLOC	6760
4	TRINITY RIVER, TX	SWG	1270.00	1270.00	0.00	0.00	1270.00	SINGLE PUR NAV	18510
4			9798.00	6591.00	0.00	0.00	6591.00		
5	APALACHICOLA BAY IL	SAM	187.00	187.00	0.00	0.00	187.00	SINGLE PUR NAV	430
5	JOHNS PASS, PINELLAS, FL	SAJ	400.00	400.00	0.00	0.00	400.00	SINGLE PUR NAV	1001
5	BAYOU LABAIRE AL	SAM	455.00	455.00	0.00	0.00	455.00	SINGLE PUR NAV	1120
5	BILOXI HBR MS	SAM	461.00	461.00	0.00	0.00	461.00	SINGLE PUR NAV	1520
5	IWW CLCHEE R TO ANLTE R F	SAJ	221.00	221.00	0.00	0.00	221.00	SINGLE PUR NAV	2480
5	DAUPHIN ISLE BAY AL	SAM	252.00	252.00	0.00	0.00	252.00	SINGLE PUR NAV	4480
5	EAST PASS CHANNEL FL	SAM	886.00	886.00	0.00	0.00	886.00	SINGLE PUR NAV	4980
5	FLY CREEK AL	SAM	249.00	249.00	0.00	0.00	249.00	SINGLE PUR NAV	5970
5	OKEECHOGEE WWY, FL	SAJ	3933.00	3326.00	607.00	0.00	3326.00	SINGLE PUR NAV	13240
5	PERDIDO PASS CH AL	SAM	350.00	350.00	0.00	0.00	350.00	SINGLE PUR NAV	13880
5	TANGIPOHODA RV LA	LMN	100.00	100.00	0.00	0.00	100.00	SINGLE PUR NAV	17970
5	DOG AND FOWL RIVERS, AL	SAM	505.00	505.00	0.00	0.00	505.00	SINGLE PUR NAV	20710
5	WITHLACOOCHIE RIVER	SAJ	34.00	34.00	0.00	0.00	34.00	SINGLE PUR NAV	74393
5	NEW PASS SARASOTA FL	SAJ	1086.00	1086.00	0.00	0.00	1086.00	SINGLE PUR NAV	74483
5	BAYOU CODEN AL	SAM	231.00	231.00	0.00	0.00	231.00	SINGLE PUR NAV	74520
5	BON SECOUR RVR AL	SAM	551.00	551.00	0.00	0.00	551.00	SINGLE PUR NAV	76060
5			9901.00	9901.00	0.00	0.00	9294.00		
13	LICKING RIVER OPEN CHANNEL	ORL	30.00	30.00	0.00	0.00	30.00	SINGLE PUR NAV	10229
13	PORTSMOUTH HARBOR	ORH	75.00	75.00	0.00	0.00	75.00	SINGLE PUR NAV	10221
13	BIG SANDY HARBOR	ORH	1035.00	1035.00	0.00	0.00	1035.00	SINGLE PUR NAV	10222
13	ELK RIVER HARBOR	ORH	3.00	3.00	0.00	0.00	3.00	SINGLE PUR NAV	88833
13			1143.00	1143.00	0.00	0.00	1143.00		
21	ANDALUSIA HBR, IL	NCR	71.00	71.00	0.00	0.00	71.00	SINGLE PUR NAV	74228
21			71.00	71.00	0.00	0.00	71.00		

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000) FY 1996 (EST. PRES)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
24	IRONDEQUOIT BAY, NY	NCB	160.00	160.00	0.00	0.00	160.00	SINGLE PUR NAV	8220
24	OAK ORCHARD HBR NY	NCB	10.00	10.00	0.00	0.00	10.00	SINGLE PUR NAV	12980
24	OLCOTT HBR NY	NCB	10.00	10.00	0.00	0.00	10.00	SINGLE PUR NAV	44066
24	WILSON HBR NY	NCB	10.00	10.00	0.00	0.00	10.00	SINGLE PUR NAV	73938
24			190.00	190.00	0.00	0.00	190.00		
25	VERMILLION HBR OH	NCB	10.00	10.00	0.00	0.00	10.00	SINGLE PUR NAV	44003
25	ROCKY R HBR OH	NCB	12.00	12.00	0.00	0.00	12.00	SINGLE PUR NAV	44072
25	BOLLES HARBOR MI	NCE	29.00	29.00	0.00	0.00	29.00	SINGLE PUR NAV	87750
25			51.00	51.00	0.00	0.00	51.00		
26	PT LOOKOUT HBR MI	NCE	301.00	301.00	0.00	0.00	301.00	SINGLE PUR NAV	14220
26	PORT SANILAC HBR MIT SHR D	NCE	75.00	75.00	0.00	0.00	75.00	SINGLE PUR NAV	14410
26	PORT SANILAC HBR MI	NCE	185.00	185.00	0.00	0.00	185.00	SINGLE PUR NAV	46039
26	INLAND ROUTE MICHIGAN	NCE	31.00	31.00	0.00	0.00	31.00	SINGLE PUR NAV	48140
26	LEXINGTON HBR MIT SHR DAM	NCE	77.00	77.00	0.00	0.00	77.00	SINGLE PUR NAV	73909
26	LEXINGTON HARBOR MI	NCE	147.00	147.00	0.00	0.00	147.00	SINGLE PUR NAV	74006
26	PT AUSTIN HBR MI	NCE	188.00	188.00	0.00	0.00	188.00	SINGLE PUR NAV	74213
26			1004.00	1004.00	0.00	0.00	1004.00		
27	FOX RIVER WI	NCE	2215.00	2215.00	0.00	0.00	2215.00	SINGLE PUR NAV	6610
27	GRAND TRAVERSE HBR MI	NCE	123.00	123.00	0.00	0.00	123.00	SINGLE PUR NAV	6730
27	LAKE MICHIGAN DIVERSION, IL	NCC	645.00	645.00	0.00	0.00	645.00	SINGLE PUR NAV	8218
27	SAUGATUCK HBR MI	NCE	918.00	918.00	0.00	0.00	918.00	SINGLE PUR NAV	16390
27	PORTAGE LAKE HBR MI	NCE	103.00	103.00	0.00	0.00	103.00	SINGLE PUR NAV	21530
27	LELAND HBR MI	NCE	280.00	280.00	0.00	0.00	280.00	SINGLE PUR NAV	46018
27	ARCADIA HBR MI	NCE	77.00	77.00	0.00	0.00	77.00	SINGLE PUR NAV	46063
27	GREILICKVILLE HARBOR, MI	NCE	63.00	63.00	0.00	0.00	63.00	SINGLE PUR NAV	46103
27	ALGOMA HARBOR WI	NCE	117.00	117.00	0.00	0.00	117.00	SINGLE PUR NAV	74177
27	BURNS WATER WAY SBH	NNCC	95.00	95.00	0.00	0.00	95.00	SINGLE PUR NAV	87387

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000) FY 1996 (EST. PRES)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
27			4636.00	4636.00	0.00	0.00	4636.00		
28	CORNUCUPIA HBR WI	NCE	107.00	107.00	0.00	0.00	107.00	SINGLE PUR NAV	3970
28	EAGLE HBR MI	NCE	60.00	60.00	0.00	0.00	60.00	SINGLE PUR NAV	22870
28			167.00	167.00	0.00	0.00	167.00		
29	TOWN CK SC	SAC	491.00	491.00	0.00	0.00	491.00	SINGLE PUR NAV	1
29	CRIEHAVEN HBR ME	NED	293.00	293.00	0.00	0.00	293.00	SINGLE PUR NAV	339
29	WELLFLEET HBR MA	NED	1214.00	1214.00	0.00	0.00	1214.00	SINGLE PUR NAV	452
29	CRANES CREEK VA	NAO	321.00	321.00	0.00	0.00	321.00	SINGLE PUR NAV	585
29	QUEENS CREEK VA	NAO	337.00	337.00	0.00	0.00	337.00	SINGLE PUR NAV	795
29	BARNEGAT INLET NY	NAP	1455.00	1455.00	0.00	0.00	1455.00	SINGLE PUR NAV	950
29	E ROCKAWAY INLET NY	NAN	930.00	930.00	0.00	0.00	930.00	SINGLE PUR NAV	5220
29	CHINCOTEAGUE HBR REFG VA	NAO	36.00	36.00	0.00	0.00	36.00	SINGLE PUR NAV	5841
29	FIRE INLT TO JONES NY	NAN	1668.00	1668.00	0.00	0.00	1668.00	MULTI WO ALLOC	5880
29	GREEN HBR	NED	364.00	364.00	0.00	0.00	364.00	SINGLE PUR NAV	6920
29	NJ IWW	NAP	3729.00	3729.00	0.00	0.00	3729.00	SINGLE PUR NAV	8190
29	SESUIT HBR	NED	217.00	217.00	0.00	0.00	217.00	SINGLE PUR NAV	8193
29	LAKE MONTAUK HBR NY	NAN	1930.00	1930.00	0.00	0.00	1930.00	SINGLE PUR NAV	9340
29	CHINCOTEAGUE BAY VA	NAO	42.00	42.00	0.00	0.00	42.00	SINGLE PUR NAV	10890
29	MURDERKILL RVR	NAP	40.00	40.00	0.00	0.00	40.00	SINGLE PUR NAV	12020
29	NRWS LKE CHAMPLAIN NY VT	NAN	645.00	645.00	0.00	0.00	645.00	SINGLE PUR NAV	12200
29	WW COAST OF VA	NAO	1268.00	1268.00	0.00	0.00	1268.00	SINGLE PUR NAV	19550
29	HOSKINS CREEK, VA	NAB	395.00	395.00	0.00	0.00	395.00	SINGLE PUR NAV	20920
29	SALEM RIVER NJ	NAP	410.00	410.00	0.00	0.00	410.00	SINGLE PUR NAV	24950
29	TANGIER CHANNEL VA	NAO	467.00	467.00	0.00	0.00	467.00	SINGLE PUR NAV	27650
29	NEWBURYPORT HBR MA	NED	646.00	646.00	0.00	0.00	646.00	SINGLE PUR NAV	39018
29	JONES INLT NY	NAN	3880.00	3880.00	0.00	0.00	3880.00	SINGLE PUR NAV	41006
29	SHARK RVR NJ	NAN	1190.00	1190.00	0.00	0.00	1190.00	SINGLE PUR NAV	41007
29	BROWN CK NY	NAN	500.00	500.00	0.00	0.00	500.00	SINGLE PUR NAV	41022
29	MATTITUCK HBR NY	NAN	570.00	570.00	0.00	0.00	570.00	SINGLE PUR NAV	41082

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000) FY 1996 (EST. PRES)

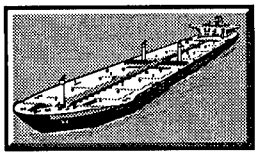
SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
29	STARLINGS CREEK VA	NAO	389.00	389.00	0.00	0.00	389.00	SINGLE PUR NAV	42001
29	CRISFIELD HBR MD	NAB	65.00	65.00	0.00	0.00	65.00	SINGLE PUR NAV	51950
29	HERRING CK TALL TIMBERS MD	NAB	40.00	40.00	0.00	0.00	40.00	SINGLE PUR NAV	62011
29	NANTICOKE RV DE MD	NAB	260.00	260.00	0.00	0.00	260.00	SINGLE PUR NAV	73549
29	BROAD CK MD	NAB	360.00	360.00	0.00	0.00	360.00	SINGLE PUR NAV	13554
29	CHESTER RVR MD	NAB	660.00	660.00	0.00	0.00	660.00	SINGLE PUR NAV	73557
29	OCEAN CTY HDR SNPXENT BY	NAB	125.00	125.00	0.00	0.00	125.00	SINGLE PUR NAV	73567
29	FISHING BAY MD	NAB	70.00	70.00	0.00	0.00	70.00	SINGLE PUR NAV	73583
29	KNAPPS NARROWS	NAB	782.00	782.00	0.00	0.00	782.00	SINGLE PUR NAV	73589
29	TWITCH CV THOROFARE R MD	NAB	150.00	150.00	0.00	0.00	150.00	SINGLE PUR NAV	73602
29	WICOMICO RVR MD	NAB	615.00	615.00	0.00	0.00	615.00	SINGLE PUR NAV	73606
29	CHEESEQUAKE CREEK, NJ	NAN	2590.00	2590.00	0.00	0.00	2590.00	SINGLE PUR NAV	73626
29	SHINNECOCK INLET NY	NAN	200.00	200.00	0.00	0.00	200.00	SINGLE PUR NAV	73644
29	GLEN COVE CRK NY	NAN	130.00	130.00	0.00	0.00	130.00	SINGLE PUR NAV	73686
29	TOMS RIVER, NJ	NAP	290.00	290.00	0.00	0.00	290.00	SINGLE PUR NAV	73894
29	DEEP CR NEWPORT NEWS VA	NAO	597.00	597.00	0.00	0.00	597.00	SINGLE PUR NAV	75117
29	STONY CK BRANFORD CONN	NED	412.00	412.00	0.00	0.00	412.00	SINGLE PUR NAV	76064
29	CHINCOTEAGUE INLET VA	NAO	888.00	888.00	0.00	0.00	888.00	SINGLE PUR NAV	76106
29	TYLERS BEACH VA	NAO	34.00	34.00	0.00	0.00	34.00	SINGLE PUR NAV	76107
29	RUDEE INLET, VIRGINIA	NAO	570.00	570.00	0.00	0.00	570.00	SINGLE PUR NAV	87455
29			32265.00	32265.00	0.00	0.00	32265.00		
30	BELHAVEN HBR NC	SAW	415.00	415.00	0.00	0.00	415.00	SINGLE PUR NAV	1290
30	THURMOND DAM & RES	SAS	9480.00	59.00	9421.00	0.00	59.00	MULTI W ALLOC	3350
30	HARTWELL GA, SC	SAS	10365.00	26.00	10339.00	0.00	26.00	MULTI W ALLOC	7380
30	LOCKWD FOLLY R NC	SAW	857.00	857.00	0.00	0.00	857.00	SINGLE PUR NAV	10020
30	MANTEO BAY NC	SAW	6506.00	6506.00	0.00	0.00	6506.00	SINGLE PUR NAV	10580
30	MURRELLS INLET SC	SAC	65.00	65.00	0.00	0.00	65.00	SINGLE PUR NAV	12030
30	OKLAWAHA RIVER FL	SAJ	127.00	127.00	0.00	0.00	127.00	SINGLE PUR NAV	13250
30	PONCE DE LEON INLET FL	SAJ	2147.00	2147.00	0.00	0.00	2147.00	SINGLE PUR NAV	14310
30	SAV R BELOW AUGUSTA GA SC	SAS	2475.00	2475.00	0.00	0.00	2475.00	SINGLE PUR NAV	16450

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000) FY 1996 (EST. PRES)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
30	SILVER LK HBR NC	SAW	200.00	200.00	0.00	0.00	200.00	SINGLE PUR NAV	16800
30	ST. LUCIE INLET FL	SAJ	85.00	85.00	0.00	0.00	85.00	SINGLE PUR NAV	17370
30	ROANOKE RVR NC	SAW	125.00	125.00	0.00	0.00	125.00	SINGLE PUR NAV	22510
30	PAMLICO & TAR R NC	SAW	125.00	125.00	0.00	0.00	125.00	SINGLE PUR NAV	74615
30	ST AUGUSTINE HBR FL	SAJ	4.00	4.00	0.00	0.00	4.00	SINGLE PUR NAV	75027
30	FOLLY RVR SC	SAC	386.00	386.00	0.00	0.00	386.00	SINGLE PUR NAV	87088
30			33362.00	13602.00	19760.00	0.00	13602.00		
32	COLUMBIA R BAKER BAY	NPP	26.00	26.00	0.00	0.00	26.00	SINGLE PUR NAV	3570
32	COLUM. R. BTN CHNK SD IS	NPP	7.00	7.00	0.00	0.00	7.00	SINGLE PUR NAV	23080
32			33.00	33.00	0.00	0.00	33.00		
33	CHETCO RIVER	NPP	500.00	500.00	0.00	0.00	500.00	SINGLE PUR NAV	3130
33	COQUILLE R OR	NPP	454.00	454.00	0.00	0.00	454.00	SINGLE PUR NAV	3900
33	DEPOE BAY OR	NPP	3.00	3.00	0.00	0.00	3.00	SINGLE PUR NAV	4610
33	QUILLAYUTE RIVER	NPS	2250.00	2250.00	0.00	0.00	2250.00	SINGLE PUR NAV	14760
33	ROGUE RVR HBR GOLD BH	NPP	816.00	816.00	0.00	0.00	816.00	SINGLE PUR NAV	15600
33			4023.00	4023.00	0.00	0.00	4023.00		
34	SACRAMENTO RVR CA	SPK	117.00	117.00	0.00	0.00	117.00	SINGLE PUR NAV	8187
34	PETALUMA RVR CA	SPN	1690.00	1690.00	0.00	0.00	1690.00	SINGLE PUR NAV	13940
34	SACRAMENTO RVR DEBRIS CTRL	SPK	872.00	427.00	445.00	0.00	427.00	SINGLE PUR NAV	15810
34	YUBA RIVER DEBRIS TREAT CA	SPK	30.00	30.00	0.00	0.00	30.00	SINGLE PUR NAV	20410
34			2709.00	2264.00	445.00	0.00	2264.00		
35	DILLINGHAM HBR AK	NPA	599.00	599.00	0.00	0.00	599.00	SINGLE PUR NAV	4800
35	NOME HBR AK	NPA	305.00	305.00	0.00	0.00	305.00	SINGLE PUR NAV	72742
35			904.00	904.00	0.00	0.00	904.00		
36	NINILCHIK HBR AK	NPA	182.00	182.00	0.00	0.00	182.00	SINGLE PUR NAV	12640
36			182.00	182.00	0.00	0.00	182.00		

TABLE 21S
SHALLOW DRAFT NAVIGATION PROJECTS NOT SUBJECT TO THE INLAND WATERWAY FUEL TAX- NAVIGATION COST RECOVERY ANALYSIS BY SEGMENT
OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (EST. PRES)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	RECOVERY AMOUNT	PROJECT TYPE	CWIS NO
TOTAL			106656.00	82637.00	24019.00	0.00	82637.00		



Navigation Operation and Maintenance:
Expenditures for Harbors and Waterways
Fiscal Year 1996

APPENDIX H - Shallow Draft Navigation Projects Subject to the InlandWaterway Fuel Tax, Analysis by Segment, O&M Expenditures for FY 1996 (Estimated - President's Budget).

TABLE 11S
SHALLOW DRAFT NAVIGATION PROJECTS SUBJECT TO INLAND WATERWAY FUEL TAX
BY SEGMENT- OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000)
FY 1996 (EST. PRES)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATIO ALLOC/SPE	OTHER ALLOC/SPEC	JOINT USE	NAVIGATION AMOUNT	PROJECT TYPE	CWIS NO
1	MISS. R. RHB MO R AND MPLS	NCS	4954.00	4954.00	0.00	0.00	4954.00	SINGLE PUR NAV	1053
1	CLARENCE CANNON DAM & RES	LNS	5279.00	2.00	5277.00	0.00	2.00	MULTI W ALLOC	2560
1	MISS R BTW MO R MWPLS MN	LNS	12437.00	11948.00	489.00	0.00	11948.00	SINGLE PUR NAV	11370
1	MISS R BTN OH/MO R IL	LNS	18858.00	18623.00	235.00	0.00	18623.00	SINGLE PUR NAV	11380
1	MISS R BTW MO R MPLS MN	NCR	38749.00	36504.00	2245.00	0.00	36504.00	SINGLE PUR NAV	11550
1	RES AT HEADWATERS	NCS	3515.00	0.00	1538.00	1977.00	197.70	MULTI W ALLOC	15200
1	MISS. R. BET MO. AND MNPLS	NCS	29644.00	28853.00	791.00	0.00	28853.00	SINGLE PUR NAV	74295
1			113436.00	100884.00	10575.00	1977.00	101081.70		
2	CARLYLE LAKE, IL	LMS	3715.00	0.00	2165.00	1550.00	155.00	MULTI WO ALLOC	2700
2	KASKASKIA RVR IL	LMS	1710.00	1710.00	0.00	0.00	1710.00	SINGLE PUR NAV	8770
2	LAKE SHELBYVILLE, IL	LMS	6399.00	0.00	4630.00	1769.00	176.90	MULTI WO ALLOC	16691
2			11824.00	1710.00	6795.00	3319.00	2041.90		
3	MR&T CHAN IMP MAINT DREDG	LMV	20000.00	20000.00	0.00	0.00	20000.00	M R & T	99991
3	MR&T CHAN IMP CONST DREDG	LMV	0.00	0.00	0.00	0.00	0.00	M R & T	99992
3	MR&T CHAN IMP MAINT DIKES	LMV	4620.00	4620.00	0.00	0.00	4620.00	M R & T	99993
3	MR&T CHAN IMP CONST DIKES	LMV	21666.00	21666.00	0.00	0.00	21666.00	M R & T	99994
3	MR&T CHAN IMP REVET MAINT	LMV	22915.00	0.00	0.00	7367.29	7630.70	M R & T	99995
3	MR&T CHAN IMP REVET CONST	LMV	22124.00	0.00	0.00	22124.00	7367.29	M R & T	99996
3	MR&T OLD RIVER MAINT	LMV	4821.00	0.00	0.00	4821.00	1605.39	M R & T	99997
3	MR&T OLD RIVER CONST	LMV	0.00	0.00	0.00	0.00	0.00	M R & T	99998
3	MR&T-ALL OTHER FEATURES	LMV	221058.00	0.00	221058.00	0.00	0.00	M R & T	99999
3			317204.00	46286.00	221058.00	49860.00	62889.38		
4	GIWW LA	LMN	16110.00	16110.00	0.00	0.00	16110.00	SINGLE PUR NAV	62
4	GIWW TX	SWG	17805.00	17805.00	0.00	0.00	17805.00	SINGLE PUR NAV	7140
4	MOUTH OF THE COLORADO RVR	SWG	1780.00	1780.00	0.00	0.00	1780.00	SINGLE PUR NAV	74826
4	CHANNEL TO PORT MANSFIELD	SWG	1510.00	1510.00	0.00	0.00	1510.00	SINGLE PUR NAV	74847
4	CHANNEL TO VICTORIA, TX	SWG	1595.00	1595.00	0.00	0.00	1595.00	SINGLE PUR NAV	88834
4			38800.00	38800.00	0.00	0.00	38800.00		

TABLE 11S
SHALLOW DRAFT NAVIGATION PROJECTS SUBJECT TO INLAND WATERWAY FUEL TAX BY SEGMENT- OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000) FY 1996 (EST. PRES)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATION ALLOC/SPEC	OTHER ALLOC/SPEC	JOINT USE	NAVIGATION AMOUNT	PROJECT TYPE	CWIS NO
5	GIWW-MOBILE DIST AL, MS, FL	SAM	3172.00	3172.00	0.00	0.00	3172.00	SINGLE PUR NAV	7130
5			3172.00	3172.00	0.00	0.00	3172.00		
6	APLCH-CHAT-FLINT,FL,AL,GA	SAM	4321.00	4151.00	170.00	0.00	4151.00	SINGLE PUR NAV	410
6	BUFORD DAM GA	SAM	7377.00	73.00	7304.00	0.00	73.00	MULTI W ALLOC	2190
6	JIM WOODRUFF L D FL GA	SAM	5111.00	1301.00	3810.00	0.00	1301.00	MULTI W ALLOC	8450
6	W.F. GEORGE L D AL GA	SAM	6434.00	788.00	5646.00	0.00	788.00	MULTI W ALLOC	19190
6	WEST PT DAN AL GA	SAM	5114.00	15.00	5099.00	0.00	15.00	MULTI W ALLOC	19710
6			28357.00	6328.00	22029.00	0.00	6328.00		
7	BWT RVR AL	SAM	16820.00	15144.00	1676.00	0.00	15144.00	SINGLE PUR NAV	1680
7			16820.00	15144.00	1676.00	0.00	15144.00		
8	ROBERT F. HENRY L&D AL	SAM	3688.00	721.00	2967.00	0.00	721.00	MULTI W ALLOC	8590
8	MILLERS FERRY L&D AL	SAM	5156.00	720.00	4436.00	0.00	720.00	MULTI W ALLOC	11230
8	ALA-COOSA RIVERS, AL	SAM	5668.00	5172.00	496.00	0.00	5172.00	SINGLE PUR NAV	23240
8			14512.00	6613.00	7899.00	0.00	6613.00		
9	TENN-TOM WWY AL, MS	SAM	21090.00	16742.00	4348.00	0.00	16742.00	SINGLE PUR NAV	18070
9			21090.00	16742.00	4348.00	0.00	16742.00		
10	TENNESSEE RIVER	ORN	13637.00	13637.00	0.00	0.00	13637.00	SINGLE PUR NAV	18080
10			13637.00	13637.00	0.00	0.00	13637.00		
11	GREEN BARREN RVR KY	ORL	1374.00	1374.00	0.00	0.00	1374.00	SINGLE PUR NAV	6970
11			1374.00	1374.00	0.00	0.00	1374.00		
12	KENTUCKY RVR KY	ORL	1059.00	1059.00	0.00	0.00	1059.00	SINGLE PUR NAV	8920
12			1059.00	1059.00	0.00	0.00	1059.00		
13	OH RVR LOCKS - DAMS	ORH	17286.00	16962.00	324.00	0.00	16962.00	SINGLE PUR NAV	13140
13	OHIO RV OP CH WORK PA	ORP	270.00	270.00	0.00	0.00	270.00	SINGLE PUR NAV	13160

TABLE 11S
SHALLOW DRAFT NAVIGATION PROJECTS SUBJECT TO INLAND WATERWAY FUEL TAX BY SEGMENT- OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000) FY 1996 (EST. PRES)

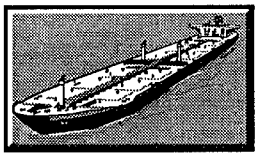
SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATIOI ALLOC/SPEI	OTHER ALLOC/SPEC	JOINT USE	NAVIGATION AMOUNT	PROJECT TYPE	CWIS NO
13	OH RVR OP CH WORK	ORH	2050.00	2050.00	0.00	0.00	2050.00	SINGLE PUR NAV	13170
13	OH RVR LD CONSTR PA	ORP	13020.00	13020.00	0.00	0.00	13020.00	SINGLE PUR NAV	13180
13	OH RVR OP CH WRK IL	ORL	3705.00	3705.00	0.00	0.00	3705.00	SINGLE PUR NAV	13190
13	OH RVR LCK DAMS IL	ORL	23262.00	23042.00	220.00	0.00	23042.00	SINGLE PUR NAV	13200
13			59593.00	59049.00	544.00	0.00	59049.00		
14	KANAWHA RVR LCKS & DAMS WV	ORH	11376.00	11376.00	0.00	0.00	11376.00	SINGLE PUR NAV	8720
14	SUMMERSVILLE LAKE, WV	ORH	1310.00	0.00	610.00	700.00	70.00	MULTI WO ALLOC	17740
14			12686.00	11376.00	610.00	700.00	11446.00		
15	ALLEGHENY RVR PA	ORP	12736.00	12718.00	18.00	0.00	12718.00	SINGLE PUR NAV	230
15			12736.00	12718.00	18.00	0.00	12718.00		
16	MONONGAHELA RVR PA	ORP	16568.00	16568.00	0.00	0.00	16568.00	SINGLE PUR NAV	11740
16	TYGART LAKE, WV	ORP	1615.00	0.00	199.00	1416.00	141.60	MULTI WO ALLOC	18730
16			18183.00	16568.00	199.00	1416.00	16709.60		
17	M-K ARK R NAV SYS OK	SWT	4769.00	4631.00	138.00	0.00	4631.00	SINGLE PUR NAV	510
17	M-K ARK R NAV SYS AR	SWL	20479.00	17357.00	3122.00	0.00	17357.00	SINGLE PUR NAV	520
17	DARDANELLE AR	SWL	6385.00	2467.00	3918.00	0.00	2467.00	MULTI W ALLOC	4460
17	EUFAULA LAKE OK	SWT	4406.00	446.00	3960.00	0.00	446.00	MULTI W ALLOC	5650
17	KEYSTONE LAKE OK	SWT	3819.00	596.00	3223.00	0.00	596.00	MULTI W ALLOC	8990
17	OOLOGAH LAKE, OK	SWT	1373.00	122.00	1251.00	0.00	122.00	MULTI W ALLOC	13340
17	KERR L D RES OK	SWT	4862.00	2162.00	2700.00	0.00	2162.00	MULTI W ALLOC	15370
17	WEBBERS FLS LAD OK	SWT	3515.00	1376.00	2139.00	0.00	1376.00	MULTI W ALLOC	19590
17	WHITE RVR AR	LMM	2200.00	2200.00	0.00	0.00	2200.00	SINGLE PUR NAV	19830
17	OZARK L&D AR	SWL	4175.00	975.00	3200.00	0.00	975.00	MULTI W ALLOC	22480
17			55983.00	32332.00	23651.00	0.00	32332.00		
18	PEARL RVR MS-LA	LMK	280.00	280.00	0.00	0.00	280.00	SINGLE PUR NAV	13780
18			280.00	280.00	0.00	0.00	280.00		

TABLE 11S
SHALLOW DRAFT NAVIGATION PROJECTS SUBJECT TO INLAND WATERWAY FUEL TAX BY SEGMENT- OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000) FY 1996 (EST. PRES)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATIOI ALLOC/SPE	OTHER ALLOC/SPEC	JOINT USE	NAVIGATION AMOUNT	PROJECT TYPE	CWIS NO
19	OUACHITA/BLACK R AR LA	LMK	5304.00	4272.00	1032.00	0.00	4272.00	SINGLE PUR NAV	13460
19	DEGRAY LAKE	LMK	4189.00	62.00	4127.00	0.00	62.00	MULTI W ALOC	36011
19			9493.00	4334.00	5159.00	0.00	4334.00		
20	RED R WW MISS R TO SHREVE	LMK	9714.00	9494.00	220.00	0.00	9494.00	SINGLE PUR NAV	65
20			9714.00	9494.00	220.00	0.00	9494.00		
21	ILLINOIS WWY, IL	NCR	20844.00	20561.00	283.00	0.00	20561.00	SINGLE PUR NAV	8010
21	ILLINOIS WWY, IL	LMS	1440.00	1440.00	0.00	0.00	1440.00	SINGLE PUR NAV	8040
21			22284.00	22001.00	283.00	0.00	22001.00		
22	BARKLEY D LAKE BARKLEY, KY	ORN	7026.00	2887.00	4139.00	0.00	2887.00	MULTI W ALLOC	940
22	CHEATHAM L D	ORN	5895.00	3364.00	2531.00	0.00	3364.00	MULTI W ALLOC	3040
22	CORDELL HULL D RES	ORN	4192.00	328.00	3864.00	0.00	328.00	MULTI W ALLOC	3940
22	OLD HICKORY L D	ORN	7282.00	2259.00	5023.00	0.00	2259.00	MULTI W ALLOC	13280
22			24395.00	8838.00	15557.00	0.00	8838.00		
23	MO RVR SIOUX CTY TO MTH	MRO	6068.00	3329.00	239.00	2500.00	3579.00	MULTI WO ALLOC	621
23	FT PECK DAM MT	MRO	4050.00	399.00	3651.00	0.00	399.00	MULTI W ALLOC	6230
23	FT RNDL D LK FRNCS CSE SD	MRO	8520.00	619.00	7901.00	0.00	619.00	MULTI W ALLOC	6270
23	GARRISON D LK SAKWA ND	MRO	9154.00	514.00	8640.00	0.00	514.00	MULTI W ALLOC	6400
23	GAVINS PT D LW CLK LKE SD	MRO	6363.00	509.00	5854.00	0.00	509.00	MULTI W ALLOC	6440
23	OAHE D LKE SD ND	MRO	9363.00	493.00	8870.00	0.00	493.00	MULTI W ALLOC	12960
23	RATHBURW LKE IOWA	MRK	2028.00	0.00	1037.00	991.00	99.10	MULTI WO ALLOC	14880
23	TUTTLE LKE CK KANSAS	MRK	2202.00	0.00	464.00	1738.00	173.80	MULTI WO ALLOC	18660
23	WILSON LKE KANSAS	MRK	1307.00	0.00	765.00	542.00	54.20	MULTI WO ALLOC	20060
23			49055.00	5863.00	37421.00	5771.00	6440.10		
29	ATLANTIC IWW VA	NAO	1732.00	1732.00	0.00	0.00	1732.00	SINGLE PUR NAV	720
29	BLACKWATER RIVER, VA	NAO	495.00	495.00	0.00	0.00	495.00	SINGLE PUR NAV	27028
29	SCITUATE HARBOR, MA	NED	208.00	208.00	0.00	0.00	208.00	SINGLE PUR NAV	39065
29	AIWW DISMAL SWAP CANAL	NAO	1437.00	1437.00	0.00	0.00	1437.00	SINGLE PUR NAV	88800

TABLE 11S
SHALLOW DRAFT NAVIGATION PROJECTS SUBJECT TO INLAND WATERWAY FUEL TAX BY SEGMENT- OPERATIONS AND MAINTENANCE EXPENDITURES ($1,000) FY 1996 (EST. PRES)

SEG NO	PROJECT NAME	DIV/ DIST	TOTAL	NAVIGATIOI ALLOC/SPEI	OTHER ALLOC/SPEC	JOINT USE	NAVIGATION AMOUNT	PROJECT TYPE	CWIS NO
29			3872.00	3872.00	0.00	0.00	3872.00		
30	AIWW SC	SAC	2420.00	2420.00	0.00	0.00	2420.00	SINGLE PUR NAV	20
30	AIWW-WILM NC	SAW	5097.00	5097.00	0.00	0.00	5097.00	SINGLE PUR NAV	30
30	IWW JAX TO MIAMI FL	SAJ	3293.00	3293.00	0.00	0.00	3293.00	SINGLE PUR NAV	8420
30	AIWW FERND TO ST JOHN R F	SAJ	75.00	75.00	0.00	0.00	75.00	SINGLE PUR NAV	20470
30	AIWW GA	SAS	1916.00	1916.00	0.00	0.00	1916.00	SINGLE PUR NAV	74569
30	CAROLINA BEACH INLET, NC	SAW	852.00	852.00	0.00	0.00	852.00	SINGLE PUR NAV	88801
30	MASONBORO INLET	SAW	4650.00	4650.00	0.00	0.00	4650.00	SINGLE PUR NAV	88802
30	NEW TOPSAIL INLET, NC	SAW	840.00	840.00	0.00	0.00	840.00	SINGLE PUR NAV	88803
30	BOGUE INLET, NC	SAW	655.00	655.00	0.00	0.00	655.00	SINGLE PUR NAV	88804
30	NEW RIVER INLET, NC	SAW	1595.00	1595.00	0.00	0.00	1595.00	SINGLE PUR NAV	88805
30			21393.00	21393.00	0.00	0.00	21393.00		
32	ALBENI FALLS D IDAHO	NPS	4467.00	14.00	4453.00	0.00	14.00	MULTI W ALLOC	200
32	ICE HBR L D WA	NPW	14885.00	8525.00	6360.00	0.00	8525.00	MULTI W ALLOC	608
32	COUGAR LKE OR	NPP	1282.00	4.00	1278.00	0.00	4.00	MULTI W ALLOC	4080
32	DALLES L D OR WA	NPP	12270.00	1726.00	10544.00	0.00	1726.00	MULTI W ALLOC	4400
32	DETROIT B CLIFF OR	NPP	2247.00	3.00	2244.00	0.00	3.00	MULTI W ALLOC	4690
32	DWORSHAK D RES ID	NOW	9144.00	117.00	9027.00	0.00	117.00	MULTI W ALLOC	5090
32	GREEN PETER FOSTER OR	NPP	2558.00	3.00	2555.00	0.00	3.00	MULTI W ALLOC	6940
32	HILLS CK LKE OR	NPP	752.00	3.00	749.00	0.00	3.00	MULTI W ALLOC	7530
32	JOHN DAY L D OR WA	NPP	12223.00	1312.00	10911.00	0.00	1312.00	MULTI W ALLOC	8480
32	LITTLE GOOSE LD WA	NPW	4978.00	337.00	4641.00	0.00	337.00	MULTI W ALLOC	9880
32	LKOUT PT OR	NPP	5439.00	13.00	5426.00	0.00	13.00	MULTI W ALLOC	10050
32	LWR GRANITE L D WA	NPW	10619.00	357.00	10262.00	0.00	357.00	MULTI W ALLOC	10180
32	LWR MONUMENTAL L D WA	NPR	5318.00	354.00	4964.00	0.00	354.00	MULTI W ALLOC	10210
32	MCNARY LD OR WA	NPW	12561.00	1688.00	10873.00	0.00	1688.00	MULTI W ALLOC	10920
32	WILMTE FALLS LK OR	NPP	846.00	846.00	0.00	0.00	846.00	SINGLE PUR NAV	19960
32			99589.00	15302.00	84287.00	0.00	15302.00		
	TOTAL		980541.00	475169.00	442329.00	63043.00	493090.68		



Navigation Operation and Maintenance:
Expenditures for Harbors and Waterways
Fiscal Year 1996

APPENDIX I - Deep Draft Navigation Projects Actual and Average O&M Expenditures, Waterborne Commerce and Average Annual Tonnages, and Annual O&M Costs per Ton of Commerce

DEEP-DRAFT NAVIGATION PROJECTS:

ACTUAL O&M EXPENDITURES(1990-1994); WATERBORNE COMMERCE(1992-1994);AND AVERGAGE O&M COSTS (1977-1994), AVERAGE TONNAGES (1992-1994) AND O&M COSTS PER TON (TOTAL 305)

PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M (1,000'S DOLLARS)	92 O&M	93 O&M	94 O&M
80	279	NPD	NAP	Absecon Inlet	NJ	D	28,838.0	4,550.0	19,583.0	17,657.0	3.02998	53.500	19.500	0.000	1.400	0.200	0.000
74196	3617	NCD	NCE	Alpena Harbor	MI	D	2,485,664.0	2,547,252.0	2,672,477.0	2,568,464.3	0.01750	44.960	0.000	0.000	28.790	11.700	20.510
360	4820	NPD	NPA	Anchorage Harbor	AK	D	2,539,889.0	2,470,067.0	2,559,391.0	2,523,115.7	0.63134	1,592.955	1,636.750	1,069.500	1,127.640	752.400	1,451.210
73550	727	NAD	NAB	Annapolis Harbor	MD	D	0.0	4.0	0.0	1.3	1,564.55000	2.086	20.000	8.000	0.000	6.000	0.000
20500	2133	SAD	SAJ	Arecibo Harbor	PR	D	17,717.0	15,212.0	20,760.0	17,896.3	12.94250	231.623	0.000	0.000	9.700	0.000	0.000
630	3863	NCD	NCE	Ashland Harbor	WI	D	83,821.0	101,564.0	120,241.0	101,875.3	1.85798	189.283	213.750	2.700	33.790	400.400	338.890
74464	860	SAD	SAC	Ashley River	SC	D	224,925.0	419,778.0	317,948.0	320,883.7	0.00201	0.644	0.000	0.000	0.000	0.000	0.000
650	3219	NCD	NCB	Ashtabula Harbor	OH	D	10,519,208.0	8,979,038.0	10,368,499.0	9,955,581.7	0.06875	684.425	728.510	256.300	599.350	987.700	876.690
680	2071	LMD	LMN	Atchafalaya River, Morgan City-Gulf	LA	D	1,799,705.0	1,607,127.0	1,969,232.0	1,792,021.3	3.02453	5,420.029	2,388.300	11,364.600	5,560.940	7,328.600	8,850.560
870	700	NAD	NAB	Baltimore Harbor and Channels	MD	D	37,655,691.0	37,170,223.0	41,450,422.0	38,758,778.7	0.20386	7,901.505	3,982.620	14,251.400	16,687.940	6,850.100	14,654.350
910	4457	POD	POD	Barbers Point Harbor	HI	D	8,823,814.0	9,356,826.0	9,022,040.0	9,067,560.0	0.00053	4.777	0.000	0.000	0.000	1.600	84.520
1040	362	NAD	NAN	Bay Ridge Red Hook Channel	NY	D	2,976,927.0	2,853,328.0	3,069,443.0	2,966,566.0	0.61979	1,838.647	138.200	2,020.000	2,080.100	179.000	99.720
1120	2199	SAD	SAM	Bayou LaBatre	AL	D	2,429.0	1,188.0	77,794.0	27,137.0	8.18286	222.058	410.830	2.500	10.020	11.100	388.540
1210	763	SAD	SAW	Beaufort Harbor	NC	D	45,340.0	53,804.0	47,894.0	49,012.7	18.51241	907.342	178.370	77.000	16.300	5.900	85.650
21750	115	NED	NED	Belfast Harbor	ME	D	2,605.0	5,804.0	1,487.0	3,298.7	0.00030	0.000	0.000	0.000	0.000	0.000	0.000
74197		NCD	NCE	Belle River	MI	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
1310	4732	NPD	NPS	Bellingham Harbor	WA	D	1,383,207.0	1,223,117.0	1,343,181.0	1,316,501.7	0.09948	130.964	35.930	303.400	457.770	189.000	31.250
396	145	NED	NED	Beverly Harbor	MA	D	13.0	13.0	10.0	12.0	0.08333	0.000	0.000	0.000	0.000	0.000	0.000
1110	2235	NCD	NCE	Black River (Port Huron)	MI	D	154,014.0	158,932.0	144,644.0	152,530.0	0.33691	51.388	80.490	626.900	11.600	1.800	28.740
1660		NCD	NCB	Black Rock Channel & Tonawanda Hbr	NY	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
1075	70	NED	NED	Black Rock Harbor	CT	D	237,984.0	251,421.0	228,892.0	239,432.3	0.41024	98.225	0.400	0.100	0.000	0.000	0.000
73445	199	NED	NED	Block Island Harbor of Refuge	RI	D	6,758.0	3,624.0	2,763.0	4,381.7	8.60248	37.693	48.730	45.800	0.000	193.700	92.800
80546		NPD	NPP	Bonneville Lock and Dam	OR	D	0.0	0.0	0.0	0.0	3,711,787.12222	3,711.787	3,443.600	3,181.100	3,539.400	2,847.000	3,111.900
1960	150	NED	NED	Boston Harbor	MA	D	17,462,293.0	18,009,392.0	17,040,291.0	17,503,992.0	0.00753	131.722	0.000	0.000	42.420	31.000	123.230
1990	2424	SWD	SWG	Brazos Island	TX	D	1,828,623.0	1,966,456.0	3,601,697.0	2,465,592.0	1.02405	2,524.880	1,961.670	1,078.000	2,571.240	70.000	2,112.330
73360	311	NED	NED	Bridgeport Harbor	CT	D	2,710,367.0	2,690,899.0	2,824,734.0	2,742,000.0	0.00333	9.141	0.000	0.000	0.000	0.000	0.000
2080	780	SAD	SAS	Brunswick Harbor	GA	D	1,449,851.0	1,593,328.0	1,626,173.0	1,556,450.7	2.95112	4,593.269	2,968.120	3,564.600	2,234.590	4,013.400	3,718.940
331	110	NED	NED	Bucksport Harbor	ME	D	1,354,323.0	1,157,849.0	1,231,946.0	1,248,039.3	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
2140	3226	NCD	NCB	Buffalo Harbor	NY	D	1,803,346.0	1,539,197.0	1,398,970.0	1,580,504.3	2.43446	3,847.674	2,537.900	2,157.800	5,564.820	1,993.800	2,534.600
2250	3739	NCD	NCC	Burns Waterway Harbor	IN	D	8,756,091.0	9,315,387.0	9,343,881.0	9,138,453.0	0.04584	418.899	62.050	160.800	272.580	846.400	819.060
41015	359	NAD	NAN	Buttermilk Channel	NY	D	26,111,786.0	26,993,209.0	27,022,251.0	26,709,082.0	0.00629	167.897	558.010	2.900	97.910	87.100	203.360
2440	2254	LMD	LMN	Calcasieu River and Pass	LA	D	44,038,688.0	45,436,380.0	48,331,277.0	45,935,448.3	0.15982	7,341.292	3,302.360	2,297.800	5,890.210	7,402.800	5,059.970
2410	3741	NCD	NCC	Calumet Harbor and River	IL	D	11,765,474.0	13,706,133.0	18,554,346.0	14,675,317.7	0.10762	1,579.430	926.470	737.600	559.660	881.500	1,005.600
73556	711	NAD	NAB	Cambridge Harbor	MD	D	25,585.0	3,402.0	3,528.0	10,838.3	7.15869	77.588	3.160	1.600	0.000	16.300	0.000
2520	2160	SAD	SAJ	Canaveral Harbor	FL	D	2,968,104.0	3,454,064.0	3,623,090.0	3,348,419.3	1.07592	3,602.625	3,229.000	2,197.300	3,878.660	3,086.500	3,984.100
73772	732	NAD	NAO	Cape Charles City Harbor	VA	D	94,143.0	166,486.0	109,920.0	123,516.3	0.96256	118.892	0.000	4.300	0.000	21.600	0.000
2620	171	NED	NED	Cape Cod Canal	MA	D	11,326,249.0	12,034,986.0	10,799,173.0	11,386,802.7	0.44786	5,099.724	4,711.190	4,606.600	4,478.700	6,846.200	4,854.100
2640	843	SAD	SAW	Cape Fear River above Wilmington	NC	D	458,229.0	373,832.0	407,398.0	413,153.0	1.91631	791.729	674.820	611.800	802.500	1,441.900	1,199.200
333	131	NED	NED	Cape Porpoise	ME	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
44037	3116	NCD	NCB	Cape Vincent Harbor	NY	D	0.0	0.0	0.0	0.0	112,212.72222	112.213	0.000	0.000	0.000	0.000	0.000
76018	2182	SAD	SAM	Carrabelle Harbor	FL	D	1,119.0	1,124.0	1,007.0	1,083.3	6.07032	6.576	0.000	0.000	24.310	15.800	3.000
87038		SPL	SPL	Channel Islands Harbor	CA	D	0.0	0.0	0.0	0.0	1,738,033.66444	1,738.034	74.110	2,635.100	760.460	2,203.200	976.700

DEEP-DRAFT NAVIGATION PROJECTS:

ACTUAL O&M EXPENDITURES(1990-1994); WATERBORNE COMMERCE(1992-1994);AND AVERGAGE O&M COSTS (1977-1994), AVERAGE TONNAGES (1992-1994) AND O&M COSTS PER TON (TOTAL 305)

PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M (1,000'S DOLLARS)	92 O&M	93 O&M	94 O&M
73783	658	NAD	NAO	Channel to Newport News	VA	D	29,635,080.0	21,938,246.0	20,250,401.0	23,941,242.3	0.01548	370.589	70.250	65.800	1,427.360	285.700	49.220
2930	2396	SWD	SWG	Channel to Port Bolivar	TX	D	0.0	0.0	0.0	0.0	26,589.60000	26.590	0.020	51.700	0.000	0.600	0.050
2940	3401	NCD	NCE	Channels In Lake Saint Clair	MI	D	58,130,654.0	56,982,243.0	63,963,464.0	59,692,120.3	0.00618	369.050	73.270	50.100	251.460	239.300	157.840
2980	773	SAD	SAC	Charleston Harbor	SC	D	9,650,460.0	9,502,726.0	10,829,846.0	9,994,344.0	0.71342	7,130.118	5,218.460	8,213.400	6,476.250	7,805.500	7,670.090
2990	3706	NCD	NCE	Charlevoix Harbor	MI	D	1,353,394.0	1,467,018.0	1,549,372.0	1,456,594.7	0.33033	481.157	110.510	231.000	394.740	512.300	106.940
3000	2116	SAD	SAJ	Charlotte Harbor	FL	D	943,302.0	1,230,065.0	1,045,126.0	1,072,831.0	0.91741	984.222	261.370	261.100	272.650	2,826.800	91.250
76132	152	NED	NED	Chelsea River	MA	D	8,820,714.0	8,276,133.0	8,012,511.0	8,369,786.0	0.00981	82.113	0.000	0.000	0.000	0.100	0.000
74203	3621	NCD	NCE	Cheyboygan Harbor	MI	D	109,585.0	221,437.0	298,658.0	209,893.3	0.12419	26.067	0.000	0.000	0.000	0.000	0.000
45009	3747	NCD	NCC	Chicago Harbor	IL	D	99,157.0	76,509.0	1,400.0	59,022.0	19.95126	1,177.563	1,527.450	1,661.400	1,573.400	2,597.500	2,075.120
3810	3746	NCD	NCC	Chicago River	IL	D	1,336,673.0	1,764,439.0	1,944,053.0	1,681,721.7	0.41128	691.654	1,042.750	929.300	457.510	442.900	298.930
74399	2157	SAD	SAJ	Christiansted Harbor-St Croix	VI	D	1,045,849.0	1,201,785.0	1,543,463.0	1,263,699.0	0.00153	1.927	0.000	0.000	0.000	0.000	0.000
3430	3217	NCD	NCB	Cleveland Harbor	OH	D	13,653,652.0	14,083,014.0	15,284,407.0	14,340,357.7	0.63092	9,047.663	4,433.580	3,961.800	5,732.810	3,359.300	3,429.020
22140	274	NAD	NAP	Cold Spring Inlet	NJ	D	78,054.0	28,012.0	33,032.0	46,366.0	5.69597	264.099	1,024.240	474.200	561.460	247.800	142.030
3630	8604	NPD	NPP	Columbia and Lower Willamette Rivers	OR	D	50,890,016.0	50,566,312.0	50,702,993.0	50,719,773.7	0.31245	15,847.264	8,844.100	10,588.800	10,888.790	11,741.300	10,350.490
3600	8902	NPD	NPP	Columbia River at Mouth	OR	D	53,272,199.0	52,746,256.0	52,508,588.0	52,842,347.7	0.13975	7,384.712	6,183.850	6,571.100	7,761.890	5,343.400	6,397.430
3620	8691	NPD	NPP	Columbia River btwn Vancouver & the D	OR	D	10,670,921.0	10,843,234.0	11,276,975.0	10,930,376.7	0.03698	404.242	256.750	335.300	206.930	94.400	88.960
73679	365	NAD	NAN	Coney Island Channel	NY	D	688,899.0	265,604.0	493,093.0	482,532.0	0.01491	7.193	47.340	0.000	82.000	0.000	0.000
3770	3220	NCD	NCB	Conneaut Harbor	OH	D	6,540,240.0	3,534,446.0	5,654,746.0	5,243,144.0	0.09757	511.573	71.940	323.600	386.730	1,077.500	912.650
3760	56	NED	NED	Connecticut River Below Hartford	CT	D	986,460.0	637,632.0	593,960.0	739,350.7	0.88047	650.976	0.000	358.200	161.110	17.700	465.300
3840	4660	NPD	NPP	Coos Bay	OR	D	4,458,253.0	5,412,877.0	3,743,963.0	4,538,364.3	1.03416	4,693.387	2,934.530	4,777.100	3,630.860	3,660.700	3,215.050
14340	2423	SWD	SWG	Corpus Christi Ship Channel	TX	D	60,833,295.0	59,635,712.0	78,124,430.0	66,197,812.3	0.07538	4,989.998	1,759.260	1,643.000	5,481.020	2,786.600	6,247.890
4270	4380	SPD	SPN	Crescent City Harbor	CA	D	19,606.0	86,716.0	0.0	35,440.7	41.03840	1,454.428	207.210	719.200	984.930	428.200	140.700
408	42	NED	NED	Cross Rip Shoals Nantucket Sound	MA	D	56,636.0	91,725.0	62,021.0	70,127.3	0.00001	0.000	0.000	0.000	0.000	0.000	0.000
87034		SPD	SPL	Dana Point Harbor	CA	D	0.0	0.0	0.0	0.0	40,386.58000	40.387	154.760	7.400	0.870	0.000	0.000
341	9	NED	NED	Deer Island Thoroughfare	ME	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
10064	238	NAD	NAP	Delaware Bay Harbor of Refuge	DE	D	0.0	0.0	424.0	141.3	120.46110	17.025	21.680	0.000	0.000	0.000	0.000
4550	5232	NAD	NAP	Delaware R. between Philadelphia & Tre	PA	D	5,647,680.0	5,667,423.0	5,979,023.0	5,764,708.7	0.33013	1,903.087	470.430	472.000	611.590	1,563.700	371.630
43005	551	NAD	NAP	Delaware River at Camden	NJ	D	4,854,504.0	4,663,626.0	5,668,842.0	5,062,324.0	0.02269	114.884	0.000	0.000	0.000	0.000	2,030.700
4570	5250	NAD	NAP	Delaware River, Philadelphia to the Sea	DE	D	113,168,376.0	120,509,506.0	120,416,277.0	118,031,386.3	0.14406	17,003.895	82.620	14,365.000	15,403.910	17,467.300	12,637.970
4710	3301	NCD	NCE	Detroit River	MI	D	63,133,594.0	62,662,103.0	72,027,292.0	65,940,996.3	0.14481	9,549.217	4,704.970	4,191.500	5,940.020	4,808.800	3,421.100
4900	160	NED	NED	Dorchester Bay & Neponset River	MA	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
72431	305	NED	NED	Duck Island Harbor	CT	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
5050	3924	NCD	NCE	Duluth-Superior Harbor	MN	D	39,303,709.0	37,679,398.0	41,819,417.0	39,600,841.3	0.09041	3,580.171	3,965.830	3,071.500	2,823.600	0.000	2,433.800
5060	3222	NCD	NCB	Dunkirk Harbor	NY	D	0.0	20,014.0	361,428.0	127,147.3	0.73834	93.878	249.580	283.100	125.920	491.800	194.700
27030	620	NAD	NAO	Dymers Creek	VA	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
41062	351	NAD	NAN	East River	NY	D	28,777,850.0	29,098,790.0	29,609,800.0	29,162,146.7	0.01052	306.841	58.020	810.600	60.180	0.000	159.870
411	184	NED	NED	Edgartown Harbor	MA	D	0.0	0.0	0.0	0.0	1,222.12222	1.222	0.000	0.000	0.000	0.000	0.000
79205	4708	NPD	NPS	Ediz Hook/Port Angeles Harbor	WA	D	2,335,665.0	1,987,346.0	1,695,048.0	2,006,019.7	0.04766	95.612	2.870	330.900	5.200	2.800	0.160
5600	3221	NCD	NCB	Erie Harbor	PA	D	1,247,049.0	1,160,144.0	978,776.0	1,128,656.3	0.69154	780.507	288.270	77.800	94.680	459.800	76.220
5700	4725	NPD	NPS	Everett Harbor and Snohomish River	WA	D	6,010,423.0	4,714,275.0	4,191,656.0	4,972,118.0	0.13858	689.011	486.810	815.900	926.400	714.000	1,002.980
5760	3218	NCD	NCB	Fairport Harbor	OH	D	2,612,642.0	2,402,986.0	2,954,667.0	2,656,765.0	0.25759	684.361	137.960	999.700	805.990	75.300	803.250
9410	189	NED	NED	Fall River Harbor	MA	D	3,530,233.0	3,457,920.0	4,178,036.0	3,722,063.0	0.01402	52.177	0.000	0.000	0.000	0.000	0.000

DEEP-DRAFT NAVIGATION PROJECTS:

ACTUAL O&M EXPENDITURES(1990-1994); WATERBORNE COMMERCE(1992-1994);AND AVERGAGE O&M COSTS (1977-1994), AVERAGE TONNAGES (1992-1994) AND O&M COSTS PER TON (TOTAL 305)

PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M (1,000'S DOLLARS)	92 O&M	93 O&M	94 O&M
5840	784	SAD	SAJ	Fernandina Harbor	FL	D	379,236.0	519,780.0	587,802.0	495,606.0	3.88519	1,925.524	548.010	978.500	1,228.340	1,711.100	1,768.670
41016	354	NAD	NAN	Flushing Bay Creek	NY	D	1,957,934.0	1,824,630.0	1,832,094.0	1,871,552.7	0.21119	395.256	103.680	60.000	1,984.970	15.000	0.000
6260	2161	SAD	SAJ	Fort Pierce Harbor	FL	D	127,029.0	200,495.0	189,151.0	172,225.0	2.10051	361.761	651.870	98.500	159.140	1,087.400	890.300
6130	3718	NCD	NCE	Frankfort Harbor	MI	D	77,284.0	83,091.0	80,989.0	80,454.7	6.83343	549.781	175.800	203.500	352.120	465.200	1,251.630
6170	2408	SWD	SWG	Freeport Harbor	TX	D	14,952,599.0	14,024,604.0	17,450,109.0	15,475,770.7	0.18531	2,867.748	44.540	301.300	958.030	4,430.700	2,347.940
24370		NPD	NPS	Friday Harbor	WA	D	0.0	0.0	0.0	0.0	4,162.83333	4.163	14.750	0.000	32.600	12.800	3.800
6340	2417	SWD	SWG	Galveston Harbor	TX	D	12,317,599.0	9,755,324.0	10,256,921.0	10,776,614.7	0.38899	4,192.003	3,130.580	3,933.200	270.880	4,659.600	3,170.290
344	121	NED	NED	Georges River	ME	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
6480	772	SAD	SAC	Georgetown Harbor	SC	D	955,206.0	1,112,801.0	706,228.0	924,745.0	3.26022	3,014.871	3,087.350	1,986.800	2,259.120	3,338.400	3,241.440
416	143	NED	NED	Gloucester Harbor & Annisquam River	MA	D	103,575.0	77,566.0	56,512.0	79,217.7	1.42304	112.730	0.000	0.000	0.000	0.000	0.000
41023	360	NAD	NAN	Gowanus Creek Channel	NY	D	2,174,526.0	2,302,852.0	2,489,567.0	2,322,315.0	0.00332	7.700	58.710	80.000	0.000	0.000	0.000
6670	3728	NCD	NCE	Grand Haven Harbor	MI	D	870,705.0	1,004,162.0	878,412.0	917,759.7	1.43258	1,314.760	547.850	687.300	1,078.270	1,262.300	910.690
99871	3931	NCD	NCE	Grand Marais Harbor	MN	D	0.0	0.0	0.0	0.0	59,769.88556	59.770	0.000	0.000	187.840	0.300	101.390
46064	3842	NCD	NCE	Grand Marais Harbor	MI	D	0.0	0.0	0.0	0.0	190,513.23111	190.513	175.020	663.300	1.000	0.000	0.940
6770	4702	NPD	NPS	Grays Harbor	WA	D	6,952,634.0	4,382,558.0	1,654,408.0	4,329,866.7	1.23900	5,364.688	3,045.370	5,092.700	7,802.000	5,356.100	9,945.040
74160	3802	NCD	NCE	Grays Reef Passage	MI	D	8,826,174.0	8,892,125.0	9,763,060.0	9,160,453.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
559	300	NED	NED	Great Salt Pond,Block Island	RI	D	0.0	0.0	6,212.0	2,070.7	0.41803	0.866	0.000	0.200	0.000	0.000	0.000
6860	3108	NCD	NCB	Great Sodus Bay Harbor	NY	D	0.0	0.0	0.0	0.0	13,163.94667	13.164	0.000	79.600	35.400	0.000	0.000
6910	3778	NCD	NCE	Green Bay Harbor	WI	D	2,430,677.0	2,586,853.0	2,288,056.0	2,435,195.3	0.97697	2,379.104	1,153.570	2,021.500	1,708.310	3,456.000	2,515.500
7150	2083	SAD	SAM	Gulfport Harbor	MS	D	1,248,561.0	1,420,446.0	1,842,149.0	1,503,718.7	1.33507	2,007.570	1,828.230	1,823.600	2,801.510	3,528.000	1,414.050
80506	4864	NPD	NPA	Haines Harbor	AK	D	405,225.0	455,680.0	298,527.0	386,477.3	0.00900	3.480	0.000	0.000	0.000	0.000	0.000
7300	3602	NCD	NCE	Harbor Beach Harbor	MI	D	0.0	85,926.0	88,110.0	58,012.0	12.67532	735.321	2,300.100	293.300	2,355.760	397.100	29.560
73694	358	NAD	NAN	Harlem River	NY	D	140,183.0	20,172.0	1,182.0	53,845.7	0.01270	0.684	12.190	0.500	0.000	0.000	0.000
7550	4400	POD	POD	Hilo Harbor	HI	D	1,587,795.0	1,468,638.0	1,455,485.0	1,503,972.7	0.11383	171.193	407.970	0.600	0.000	0.000	0.000
7610	3730	NCD	NCE	Holland Harbor	MI	D	315,555.0	316,563.0	391,214.0	341,110.7	4.40079	1,501.158	971.390	1,513.200	921.420	574.800	515.980
80508	4844	NPD	NPA	Homer Harbor	AK	D	286,946.0	472,315.0	376,760.0	378,673.7	0.72118	273.091	338.380	221.100	239.830	187.700	182.620
7660	4420	POD	POD	Honolulu Harbor	HI	D	11,521,923.0	10,594,734.0	11,672,245.0	11,262,967.3	0.01289	145.191	470.860	0.000	394.910	30.400	289.630
76001	4813	NPD	NPA	Hoonah Harbor	AK	D	575,193.0	252,634.0	377,012.0	401,613.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
7760	2065	LMD	LMN	Houma Navigation Canal	LA	D	1,174,648.0	792,804.0	524,204.0	830,552.0	1.74771	1,451.561	297.500	3,155.700	185.230	1,083.700	1,007.390
241	63	NED	NED	Housatonic River	CT	D	179,049.0	70,460.0	52,005.0	100,504.7	0.21421	21.529	0.000	0.000	0.000	0.000	0.000
7780	2012	SWD	SWG	Houston Ship Channel	TX	D	137,663,612.0	141,476,979.0	143,662,625.0	140,934,405.3	0.04184	5,897.214	9,047.820	6,457.000	2,311.820	9,856.600	3,990.090
7800	5396	NAD	NAN	Hudson River Channel	NY	D	16,615,793.0	17,306,325.0	16,346,227.0	16,756,115.0	0.03635	609.163	44.940	640.100	2,799.530	2,741.400	4,948.820
7810		NAD	NAN	Hudson River, New York City to Waterfo	NY	D	0.0	0.0	0.0	0.0	2,841.38301	2,841.383	2,392.670	2,545.000	3,922.490	2,050.900	1,371.340
7860	4375	SPD	SPN	Humboldt Bay Harbor	CA	D	1,311,040.0	994,357.0	1,407,374.0	1,237,590.3	2.56540	3,174.912	3,287.440	2,973.800	2,917.780	2,720.500	3,108.880
74949	4942	NPD	NPA	Humboldt Harbor	AK	D	17,266.0	8,131.0	3,965.0	9,787.3	1.81306	17.745	0.000	0.000	0.000	56.500	224.000
7920	3214	NCD	NCB	Huron Harbor	OH	D	617,807.0	529,403.0	870,856.0	672,688.7	0.89743	603.693	802.900	92.100	1,059.590	2.300	1,055.490
72796		NPD	NPA	Illuliuk Harbor	AK	D	0.0	0.0	0.0	0.0	1,035.05000	1.035	0.000	0.000	0.000	0.000	0.000
18120	3738	NCD	NCC	Indiana Harbor	IN	D	15,325,931.0	15,546,403.0	16,144,862.0	15,672,398.7	0.03037	475.948	299.860	334.800	393.600	305.200	357.930
8160	248	NAD	NAP	IWW from Delaware R. to Chesapeake Ba	DE	D	13,529,305.0	14,532,953.0	13,633,586.0	13,898,614.7	0.97581	13,562.407	52.530	20,573.100	22,526.450	9,724.900	11,841.500
8410	2017	SAD	SAJ	Jacksonville Harbor	FL	D	17,208,707.0	18,905,304.0	18,910,150.0	18,341,387.0	0.19217	3,524.604	4,173.560	1,457.300	290.780	4,803.300	2,888.510
54000	367	NAD	NAN	Jamaica Bay	NY	D	1,024,972.0	600,614.0	780,687.0	802,091.0	0.81786	655.995	47.210	2,390.100	1,485.000	115.000	1,500.490
8430	5500	NAD	NAO	James River	VA	D	7,373,255.0	6,851,084.0	5,387,497.0	6,537,278.7	0.25846	1,689.634	1,249.130	1,715.800	1,705.520	921.900	3,113.530

DEEP-DRAFT NAVIGATION PROJECTS:

ACTUAL O&M EXPENDITURES(1990-1994); WATERBORNE COMMERCE(1992-1994);AND AVERGAGE O&M COSTS (1977-1994), AVERAGE TONNAGES (1992-1994) AND O&M COSTS PER TON (TOTAL 305)

PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M (1,000'S DOLLARS)	92 O&M	93 O&M	94 O&M
8660	4410	POD	POD	Kahului Harbor	HI	D	2,357,171.0	2,215,754.0	2,368,065.0	2,313,663.3	0.15091	349.159	537.210	0.000	0.000	0.000	0.000
73019	4415	POD	POD	Kaunakakai Harbor	HI	D	242,224.0	201,823.0	189,454.0	211,167.0	0.00258	0.545	0.000	0.000	0.000	0.000	0.000
990	4405	POD	POD	Kawaihae Harbor	HI	D	789,548.0	655,326.0	735,577.0	726,817.0	0.00718	5.217	0.000	0.000	0.000	0.000	0.000
87153		NPD	NPS	Kenmore Navigation Channel	WA	D	0.0	0.0	0.0	0.0	35,969.31889	35.969	5.800	7.000	14.580	0.900	0.000
8890	16	NED	NED	Kennebec River	ME	D	5,284.0	2,560.0	5,307.0	4,383.7	34.35493	150.601	942.310	115.600	451.640	0.200	0.000
8910	3753	NCD	NCE	Kenosha Harbor	WI	D	3.0	1.0	18.0	7.3	45,082.59242	330.606	699.770	934.300	31.460	0.300	0.250
72798		NPD	NPA	Ketchikan Harbor	AK	D	0.0	0.0	0.0	0.0	16,497.63778	16.498	0.000	0.000	0.000	0.000	164.710
76050	3762	NCD	NCE	Kewaunee Harbor	WI	D	80,100.0	0.0	0.0	26,700.0	20.52260	547.953	251.080	199.800	659.000	157.300	138.040
8960	3850	NCD	NCE	Keweenaw Waterway	MI	D	91,442.0	33,579.0	12,474.0	45,831.7	26.73818	1,225.455	2,285.290	686.400	556.970	922.000	1,240.740
8970	2111	SAD	SAJ	Key West Harbor	FL	D	10,411.0	64,820.0	29,784.0	35,005.0	0.24719	8.653	0.000	0.000	0.000	0.000	0.000
72714	4944	NPD	NPA	King Cove Harbor	AK	D	7,645.0	11,031.0	6,676.0	8,450.7	4.17364	35.270	0.000	0.000	0.000	0.000	0.000
72753	4934	NPD	NPA	Kodiak Harbor	AK	D	490,383.0	525,277.0	568,916.0	528,192.0	0.00271	1.432	0.000	0.000	0.000	0.000	0.000
72920	8419	NPD	NPS	Lake Crockett (Keystone) Harbor	WA	D	0.0	0.0	0.0	0.0	27,021.88889	27.022	5.800	14.400	24.250	212.900	8.850
9400	4724	NPD	NPS	Lake Washington Ship Canal	WA	D	1,613,607.0	1,918,899.0	1,364,789.0	1,632,431.7	2.91757	4,762.729	4,398.160	7,046.980	5,857.600	4,829.300	5,139.500
74158	3797	NCD	NCE	Little Bay De Noc,Gladstone Harbor & K	MI	D	176,908.0	180,395.0	265,134.0	207,479.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
73780	655	NAD	NAO	Little River (Creek)	VA	D	132,443.0	57,981.0	37,899.0	76,107.7	0.00001	0.000	0.000	0.000	0.000	0.000	0.000
9970	3110	NCD	NCB	Little Sodus Bay Harbor	NY	D	0.0	0.0	0.0	0.0	73,645.80444	73.646	19.730	203.400	11.860	30.200	142.900
10060	3216	NCD	NCB	Lorain Harbor	OH	D	13,282,176.0	13,676,686.0	14,748,165.0	13,902,342.3	0.12856	1,787.289	624.130	1,433.300	1,487.180	1,097.000	1,298.320
74719	4110	SPD	SPL	Los Angeles and Long Beach Harbors	CA	D	92,152,317.0	97,943,739.0	99,661,799.0	96,585,951.7	0.01254	1,211.670	243.490	1,662.200	479.760	647.000	476.570
10270	3722	NCD	NCE	Ludington Harbor	MI	D	846,150.0	966,416.0	1,093,469.0	968,678.3	0.67573	654.565	569.840	832.600	172.590	720.700	2,090.120
73404	148	NED	NED	Lynn Harbor	MA	D	85.0	0.0	0.0	28.3	0.03529	0.000	0.000	0.000	0.000	0.000	0.000
10166	2023	SAD	SAJ	Manatee Harbor	FL	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
10480	3720	NCD	NCE	Manistee Harbor	MI	D	455,656.0	424,713.0	483,031.0	454,466.7	0.97104	441.303	1.430	282.700	699.320	559.300	1,090.600
10490	3799	NCD	NCE	Manistique Harbor	MI	D	920.0	22,460.0	1,091.0	8,157.0	6.74645	55.031	59.310	65.900	23.070	18.000	2.000
10510	3760	NCD	NCE	Manitowoc Harbor	WI	D	274,063.0	299,792.0	330,317.0	301,390.7	1.23605	372.534	197.760	640.500	292.450	224.500	563.130
73883	261	NAD	NAP	Mantua Creek	NJ	D	116,283.0	104,693.0	85,667.0	102,214.3	0.00001	0.000	0.000	0.000	0.000	0.000	0.000
4430		SPD	SPL	Marina Del Rey	CA	D	0.0	0.0	0.0	0.0	293,732.40556	293.732	205.940	818.800	143.390	940.400	642.760
48013	3844	NCD	NCE	Marquette Harbor	MI	D	454,037.0	789,146.0	822,469.0	688,550.7	0.13393	92.217	194.110	13.800	393.520	7.100	0.800
10810	2410	SWD	SWG	Matagorda Ship Channel	TX	D	5,389,932.0	5,892,656.0	7,379,628.0	6,220,738.7	0.43924	2,732.418	1,040.130	489.100	2,393.060	1,419.600	4,707.480
22280	2154	SAD	SAJ	Mayaguez Harbor	PR	D	366,092.0	478,000.0	433,572.0	425,888.0	0.10130	43.144	0.000	0.000	8.700	0.000	0.000
45044	3793	NCD	NCE	Menominee harbor	MI	D	129,777.0	161,620.0	216,810.0	169,402.3	0.71483	121.094	110.090	237.900	126.920	21.600	135.540
11030	2055	LMD	LMN	Mermentau River	LA	D	724,866.0	760,359.0	673,000.0	719,408.3	0.87528	629.682	1,329.170	3,794.600	1,192.300	1,091.400	1,286.840
76002	4832	NPD	NPA	Metlakatla Harbor	AK	D	553,568.0	683,180.0	560,034.0	598,927.3	0.01619	9.699	0.000	0.000	0.000	0.000	0.000
10140	2164	SAD	SAJ	Miami Harbor	FL	D	6,451,331.0	6,695,979.0	6,514,924.0	6,554,078.0	0.00272	17.816	0.000	0.000	0.000	211.800	127.320
11060	3735	NCD	NCC	Michigan City Harbor	IN	D	0.0	0.0	0.0	0.0	502,063.11333	502.063	847.320	623.200	1,481.170	779.800	784.220
11270	3756	NCD	NCE	Milwaukee Harbor	WI	D	2,153,481.0	2,495,767.0	2,641,109.0	2,430,119.0	0.86314	2,097.530	889.180	1,251.000	628.120	1,657.600	788.700
11410	2060	LMD	LMN	Mississippi River - Gulf Outlet	LA	D	5,935,384.0	7,160,081.0	5,586,195.0	6,227,220.0	1.39763	8,703.324	6,438.800	9,416.800	11,720.480	12,780.600	12,025.900
68	2252	LMD	LMN	Mississippi River, Baton Rouge to Gulf	LA	D	84,699,463.0	85,078,863.0	86,245,856.0	85,341,394.0	0.48896	41,728.294	37,961.240	47,727.900	36,816.940	49,820.000	60,839.500
11670	2005	SAD	SAM	Mobile Harbor	AL	D	40,482,387.0	43,959,704.0	44,996,849.0	43,146,313.3	0.21649	9,340.697	10,813.900	21,686.700	20,425.300	9,668.600	15,986.630
11760	3202	NCD	NCE	Monroe Harbor	MI	D	1,778,312.0	1,077,717.0	2,034,815.0	1,630,281.3	2.14881	3,503.169	1,060.590	67.200	1,171.900	176.700	799.880
11810	764	SAD	SAW	Morehead City Harbor	NC	D	4,440,022.0	3,998,505.0	4,183,055.0	4,207,194.0	0.70282	2,956.896	1,137.630	1,040.000	1,971.000	3,362.100	5,555.170
11860	4138	SPD	SPL	Morro Bay Harbor	CA	D	0.0	0.0	0.0	0.0	904,504.98667	904.505	129.720	2,385.900	757.970	283.100	2,157.040

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PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M (1,000'S DOLLARS)	92 O&M	93 O&M	94 O&M
11880	4330	SPD	SPN	Moss Landing Harbor	CA	D	5,674.0	0.0	0.0	1,891.3	124.13068	234.772	526.340	6.900	0.120	617.000	58.000
66013	4630	NPD	NPP	Multnomah Channel	OR	D	1,405,386.0	1,570,081.0	1,359,554.0	1,445,007.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
12060	3725	NCD	NCE	Muskegon Harbor	MI	D	1,562,478.0	1,635,470.0	2,004,423.0	1,734,123.7	0.34190	592.900	218.410	824.600	124.110	252.400	1,142.010
431	153	NED	NED	Mystic River	MA	D	5,068,831.0	5,580,793.0	4,537,983.0	5,062,535.7	0.00632	31.980	0.090	0.100	0.000	0.000	0.000
73370	53	NED	NED	Mystic River	CT	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
21760	183	NED	NED	Nantucket Harbor of Refuge	MA	D	168,039.0	213,819.0	63,472.0	148,443.3	0.23730	35.225	0.000	318.000	0.000	0.000	0.000
74703	4365	SPD	SPN	Napa River	CA	D	85,605.0	78,687.0	80,003.0	81,431.7	2.81253	229.029	31.820	0.000	0.000	0.000	360.710
73336	4430	POD	POD	Nawiliwili Harbor	HI	D	1,143,475.0	1,283,438.0	1,150,924.0	1,192,612.3	0.54393	648.697	889.280	0.000	0.000	0.000	0.000
432	187	NED	NED	New Bedford & Fairhaven Harbors	MA	D	483,739.0	502,756.0	601,302.0	529,265.7	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
12380	1507	NED	NED	New Haven Harbor	CT	D	8,429,527.0	8,739,760.0	9,470,882.0	8,880,056.3	0.07651	679.389	1.450	5.000	0.000	210.900	2,322.840
249	304	NED	NED	New London Harbor	CT	D	1,765,120.0	1,793,328.0	1,674,600.0	1,744,349.3	0.06066	105.810	0.000	0.000	0.000	0.000	0.000
12520	388	NAD	NAN	New York and New Jersey Channels	NJ	D	80,177,081.0	83,896,987.0	91,558,915.0	85,210,994.3	0.02347	1,999.634	2,027.020	2,777.700	1,033.200	442.900	8.880
12490	398	NAD	NAN	New York Harbor	NY	D	115,310,756.0	116,735,760.0	126,100,614.0	119,382,376.7	0.08289	9,895.273	8,599.700	9,420.800	8,856.780	11,306.000	9,869.960
12550	392	NAD	NAN	Newark Bay, Hackensack & Passaic Rive	NJ	D	22,803,556.0	22,585,751.0	24,124,009.0	23,171,105.3	0.04617	1,069.719	41.080	90.000	118.000	516.000	0.000
74720	4132	SPD	SPL	Newport Harbor	CA	D	18,044.0	0.0	0.0	6,014.7	6.13681	36.911	0.000	0.000	162.200	32.100	0.000
12590	355	NAD	NAN	Newtown Creek	NY	D	1,283,351.0	1,552,751.0	1,482,699.0	1,439,600.3	0.01066	15.349	0.000	70.000	0.000	0.000	0.000
12801	5735	NAD	NAO	Norfolk Harbor Channels	VA	D	54,617,219.0	46,801,769.0	46,815,306.0	49,411,431.3	0.12109	5,983.477	2,707.620	7,298.900	4,006.890	7,592.300	7,088.080
12990	4345	SPD	SPN	Oakland Harbor	CA	D	13,211,391.0	12,733,691.0	12,914,086.0	12,953,056.0	0.12806	1,658.804	2,369.730	1,529.700	1,420.680	1,642.900	2,089.300
13080		SPD	SPL	Oceanside Harbor	CA	D	0.0	0.0	0.0	0.0	1,692,717.12111	1,692.717	590.620	2,828.200	2,273.510	1,223.800	2,001.350
23370	3790	NCD	NCE	Oconto Harbor	WI	D	69,000.0	0.0	0.0	23,000.0	2.21236	50.884	0.000	22.200	282.600	583.800	60.900
87108		POD	POD	Ofu Harbor	AS	D	0.0	0.0	0.0	0.0	225,023.13222	225.023	17.560	45.400	71.900	673.300	2,637.690
13130	3008	NCD	NCB	Ogdensburg Harbor	NY	D	117,783.0	159,346.0	43,229.0	106,786.0	0.51389	54.876	0.000	0.000	0.000	0.000	0.000
13320	4718	NPD	NPS	Olympia Harbor	WA	D	714,406.0	923,637.0	1,514,000.0	1,050,681.0	0.03197	33.595	34.900	51.200	87.280	0.000	3.940
13330	3860	NCD	NCE	Ontonagon Harbor	MI	D	243,856.0	359,874.0	393,000.0	332,243.3	2.59138	860.970	810.600	633.700	2,100.710	1,846.500	2,246.030
66005	4634	NPD	NPP	Oregon Slough	OR	D	2,793,654.0	3,089,272.0	3,729,779.0	3,204,235.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
13440	3112	NCD	NCB	Oswego Harbor	NY	D	581,500.0	506,107.0	473,979.0	520,528.7	0.44634	232.334	327.880	562.200	54.390	175.800	25.500
13590	2162	SAD	SAJ	Palm Beach Harbor	FL	D	2,646,147.0	2,816,282.0	2,882,844.0	2,781,757.7	0.30294	842.698	976.090	204.200	1,016.980	417.300	2,030.100
13640	2016	SAD	SAM	Panama City Harbor	FL	D	2,734,001.0	2,585,532.0	2,502,984.0	2,607,505.7	0.15204	396.454	60.230	558.100	97.890	70.800	314.010
13680	2004	SAD	SAM	Pascagoula Harbor	MS	D	29,253,298.0	27,020,433.0	30,048,859.0	28,774,196.7	0.10431	3,001.499	4,075.170	1,716.900	3,152.530	3,405.800	2,166.320
13820	12	NED	NED	Penobscot River	ME	D	1,774,321.0	1,601,728.0	1,652,699.0	1,676,249.3	0.00743	12.454	0.000	0.000	0.000	0.000	0.000
13830	2007	SAD	SAM	Pensacola Harbor	FL	D	1,689,753.0	1,650,164.0	1,465,965.0	1,601,960.7	0.24950	399.687	48.500	24.200	72.240	11.200	2.750
13850	3723	NCD	NCE	Pentwater Harbor	MI	D	0.0	0.0	0.0	0.0	245,298.87444	245.299	110.450	149.300	157.520	108.400	293.860
72759	4806	NPD	NPA	Petersburg Harbor	AK	D	67,624.0	48,536.0	54,566.0	56,908.7	0.02776	1.580	0.000	0.000	0.000	0.000	0.000
14200	170	NED	NED	Plymouth Harbor	MA	D	37,982.0	1,957.0	2,403.0	14,114.0	1.67641	23.661	8.270	0.300	0.000	0.000	0.000
72611	198	NED	NED	Point Judith Pond & Harbor of Refuge	RI	D	36,810.0	31,349.0	6,861.0	25,006.7	12.44888	311.305	34.880	1.300	0.000	2.800	19.200
435	181	NED	NED	Pollock Rip Shoals	MA	D	0.0	1,444.0	1,451.0	965.0	0.00104	0.000	0.000	0.000	0.000	0.000	0.000
75007	2151	SAD	SAJ	Ponce Harbor	PR	D	829,102.0	595,159.0	677,928.0	700,729.7	0.03233	22.654	0.000	0.000	1.400	0.000	0.000
72761	4836	NPD	NPA	Port Alexander	AK	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
73338	4425	POD	POD	Port Allen Harbor	HI	D	11,443.0	12,471.0	950.0	8,288.0	15.73868	130.442	42.880	253.700	42.880	131.700	1,006.610
76031	2163	SAD	SAJ	Port Everglades Harbor	FL	D	14,507,888.0	16,297,269.0	18,135,257.0	16,313,471.3	0.00421	68.735	0.010	0.000	0.000	0.000	44.630
72893	4714	NPD	NPS	Port Gamble Harbor	WA	D	452,766.0	273,079.0	250,870.0	325,571.7	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
74656	4150	SPD	SPL	Port Hueneme	CA	D	474,190.0	695,864.0	813,993.0	661,349.0	0.19185	126.877	69.920	856.200	2.470	0.400	0.000

DEEP-DRAFT NAVIGATION PROJECTS:

ACTUAL O&M EXPENDITURES(1990-1994); WATERBORNE COMMERCE(1992-1994);AND AVERGAGE O&M COSTS (1977-1994), AVERAGE TONNAGES (1992-1994) AND O&M COSTS PER TON (TOTAL 305)

PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M (1,000'S DOLLARS)	92 O&M	93 O&M	94 O&M
73749	522	NAD	NAN	Port Jefferson Harbor	NY	D	2,354,417.0	2,432,565.0	2,100,897.0	2,295,959.7	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
73933		NCD	NCB	Port Ontario Harbor	NY	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
14370	4688	NPD	NPP	Port Orford	OR	D	1,630.0	1,336.0	1,343.0	1,436.3	194.12636	278.830	227.330	235.400	281.760	397.700	265.570
14380	774	SAD	SAC	Port Royal Harbor	SC	D	56,160.0	89,028.0	44,059.0	63,082.3	9.71605	612.911	1,671.840	278.000	1,632.270	56.100	723.530
14390	2185	SAD	SAM	Port St Joe Harbor	FL	D	42,779.0	74,782.0	124,246.0	80,602.3	1.54771	124.749	11.010	0.000	0.000	5.000	0.000
14420	3758	NCD	NCE	Port Washington Harbor	WI	D	120,048.0	84,254.0	334,574.0	179,625.3	0.78534	141.067	51.200	3.700	207.210	12.400	60.100
74190	3921	NCD	NCE	Port Wing Harbor	WI	D	0.0	0.0	0.0	0.0	31,708.59222	31.709	40.050	58.200	6.130	120.100	14.900
21530	3719	NCD	NCE	Portage Lake Harbor	MI	D	0.0	0.0	0.0	0.0	83,067.08667	83.067	140.130	0.000	0.000	89.400	156.600
367	128	NED	NED	Portland Harbor	ME	D	12,511,340.0	11,171,097.0	14,245,338.0	12,642,591.7	0.02129	269.149	0.000	12.000	0.000	0.000	0.000
512	135	NED	NED	Portsmouth Harbor	NH	D	3,738,039.0	3,691,845.0	3,479,010.0	3,636,298.0	0.03106	112.926	0.000	0.000	114.500	2.400	0.000
597	718	NAD	NAB	Potomac River at Alexandria	VA	D	99,816.0	71,310.0	55,180.0	75,435.3	0.40487	30.541	0.000	171.300	286.190	13.200	89.080
294	452	NAD	NAB	Potomac River Below Washington	MD	D	3,421,759.0	2,724,953.0	3,246,691.0	3,131,134.3	0.04099	128.341	68.560	48.000	54.430	858.800	806.000
48012	3845	NCD	NCE	Presque Isle Harbor	MI	D	10,736,948.0	9,671,979.0	10,191,125.0	10,200,017.3	0.00672	68.593	4.220	77.000	120.850	599.900	24.010
566	191	NED	NED	Providence River and Harbor	RI	D	6,184,665.0	6,557,780.0	6,566,624.0	6,436,356.3	0.00253	16.277	19.130	6.900	0.000	0.000	0.000
13970	4701	NPD	NPS	Puget Sound and Its Tributary Waters	WA	D	0.0	0.0	0.0	0.0	827,699.68111	827.700	580.990	0.000	0.000	915.400	915.660
14860	387	NAD	NAN	Raritan River	NJ	D	2,519,565.0	2,032,530.0	2,274,260.0	2,275,451.7	0.16122	366.855	1,065.580	875.100	112.980	119.600	74.830
15100	4340	SPD	SPN	Redwood City Harbor	CA	D	815,856.0	1,829,286.0	845,919.0	1,163,687.0	0.61472	715.342	2,685.140	46.200	809.500	1,905.200	19.600
15280	4350	SPD	SPN	Richmond Harbor	CA	D	21,042,244.0	24,570,112.0	24,093,993.0	23,235,449.7	0.07102	1,650.280	1,167.040	2,193.500	2,241.780	2,090.000	1,961.300
15390	3106	NCD	NCB	Rochester Harbor	NY	D	504,654.0	108,457.0	132,793.0	248,634.7	4.30564	1,070.532	1,018.150	923.700	678.610	596.800	213.300
373	118	NED	NED	Rockland Harbor	ME	D	15,556.0	465.0	7,016.0	7,679.0	0.00013	0.000	0.000	0.000	0.000	0.000	0.000
438	142	NED	NED	Rockport Harbor	MA	D	10.0	11.0	8.0	9.7	3,202.88529	30.961	0.060	0.600	0.000	0.000	0.000
375	117	NED	NED	Rockport Harbor	ME	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
232	4162	POD	POD	Rota Harbor	CNMI	D	0.0	0.0	0.0	0.0	23,320.08667	23.320	334.930	16.100	0.000	0.000	0.000
15590	3315	NCD	NCE	Rouge River	MI	D	7,191,998.0	7,071,595.0	8,568,506.0	7,610,699.7	0.26843	2,042.920	143.630	868.100	175.860	674.900	196.120
15780	2069	SWD	SWG	Sabine-Neches Waterway	TX	D	88,347,688.0	95,191,063.0	99,674,923.0	94,404,558.0	0.08575	8,094.841	3,701.950	14,305.200	5,893.590	3,574.400	12,543.610
15870	8230	SPD	SPK	Sacramento River	CA	D	1,135,727.0	1,078,265.0	1,542,018.0	1,252,003.3	1.25897	1,576.238	323.480	1,267.100	284.490	1,033.000	108.870
57420	3603	NCD	NCE	Saginaw River	MI	D	3,788,958.0	5,234,008.0	5,119,089.0	4,714,018.3	0.97762	4,608.503	2,128.630	3,181.200	1,390.090	3,574.100	1,765.730
568	188	NED	NED	Sakonnet Harbor	RI	D	0.0	0.0	0.0	0.0	4,232.77778	4.233	0.000	0.000	0.000	0.000	27.600
439	146	NED	NED	Salem Harbor	MA	D	1,438,636.0	1,558,144.0	1,227,099.0	1,407,959.7	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
24950	265	NAD	NAP	Salem River	NJ	D	72,240.0	41,176.0	107,116.0	73,510.7	2.00991	147.750	0.000	275.000	389.960	76.800	0.170
16110	4100	SPD	SPL	San Diego Harbor	CA	D	637,893.0	1,294,113.0	1,166,900.0	1,032,968.7	0.26594	274.704	24.330	5.700	132.290	3.000	131.290
15750	4130	SPD	SPL	San Diego-Mission Bay	CA	D	20.0	0.0	0.0	6.7	50,524.53733	336.830	23.090	174.600	16.200	0.000	286.000
16130	4335	SPD	SPN	San Francisco Harbor	CA	D	3,197,822.0	2,340,298.0	1,738,572.0	2,425,564.0	1.69028	4,099.888	3,553.330	8,275.300	10,294.830	5,224.100	6,101.550
16180	4270	SPD	SPK	San Joaquin River	CA	D	1,718,720.0	1,103,323.0	1,608,871.0	1,476,971.3	0.44566	658.221	105.670	442.400	1,098.450	142.100	1,265.830
16190	2136	SAD	SAJ	San Juan Harbor	PR	D	14,330,502.0	14,153,403.0	16,299,654.0	14,927,853.0	0.06714	1,002.185	0.000	218.500	1,874.850	473.500	1,341.440
16230	4355	SPD	SPN	San Pablo Bay & Mare Island Strait	CA	D	36,085,087.0	34,176,865.0	32,366,832.0	34,209,594.7	0.04953	1,694.485	857.190	1,110.700	1,046.890	1,659.300	1,007.850
16260	3213	NCD	NCB	Sandusky Harbor	OH	D	5,179,131.0	5,175,912.0	5,421,549.0	5,258,864.0	0.16355	860.109	1,056.370	1,280.200	958.070	837.800	104.500
15730	4136	SPD	SPL	Santa Barbara Harbor	CA	D	11,087.0	0.0	4,987.0	5,358.0	160.88946	862.046	756.950	831.000	886.560	1,403.600	1,395.550
16340	4396	SPD	SPN	Santa Cruz Harbor	CA	D	563.0	0.0	0.0	187.7	3,153.50393	591.808	0.000	0.000	0.000	0.000	50.500
75085	776	SAD	SAS	Savannah Harbor	GA	D	13,988,735.0	14,962,844.0	15,904,910.0	14,952,163.0	0.56917	8,510.274	6,958.460	9,402.200	4,679.910	9,819.400	7,285.920
16550	557	NAD	NAP	Schuylkill River	PA	D	8,166,859.0	9,118,567.0	8,725,088.0	8,670,171.3	0.09385	813.708	1,345.900	432.800	961.700	152.300	1,538.270
377	112	NED	NED	Searsport Harbor	ME	D	782,563.0	1,407,497.0	1,136,068.0	1,108,709.3	0.00000	0.000	0.000	0.000	0.000	0.000	0.000

DEEP-DRAFT NAVIGATION PROJECTS:

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PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M (1,000'S DOLLARS)	92 O&M	93 O&M	94 O&M
67318	4722	NPD	NPS	Seattle Harbor	WA	D	21,883,200.0	21,693,410.0	22,335,514.0	21,970,708.0	0.02310	507.446	685.070	314.700	787.110	136.600	436.570
571	49	NED	NED	Seekonk River	RI	D	0.0	79,639.0	30,176.0	36,605.0	0.00003	0.000	0.000	0.000	0.000	0.000	0.000
72763	4842	NPD	NPA	Seldovia Harbor	AK	D	309.0	76.0	595.0	326.7	8.55114	2.793	0.000	0.000	0.000	0.000	0.000
72744	4809	NPD	NPA	Sergius-Whitestone Narrows	AK	D	474,775.0	316,701.0	159,264.0	316,913.3	0.00315	0.999	0.000	0.000	0.000	0.000	0.000
72765	4930	NPD	NPA	Seward Harbor	AK	D	685,627.0	862,134.0	960,874.0	836,211.7	0.00125	1.048	0.000	0.000	0.000	0.000	0.000
66700	3759	NCD	NCE	Sheboygan Harbor	WI	D	41,912.0	12,765.0	12,497.0	22,391.3	18.99990	425.433	215.790	663.400	228.240	676.600	314.630
72897		NPD	NPS	Shilshole Boat Harbor	WA	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
16730	861	SAD	SAC	Shipyard River	SC	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
72845	4808	NPD	NPA	Sitka Harbor	AK	D	546,262.0	380,930.0	51,220.0	326,137.3	0.00909	2.965	0.000	0.000	0.000	0.000	0.000
16860	4668	NPD	NPP	Siuslaw River	OR	D	31,050.0	565.0	426.0	10,680.3	74.06181	791.005	452.350	896.200	789.740	732.700	752.570
72846	4812	NPD	NPA	Skagway Harbor	AK	D	1,949,057.0	659,554.0	127,863.0	912,158.0	0.00328	2.992	0.000	0.000	0.000	0.000	0.000
16930	4606	NPD	NPP	Skipanon Channel	OR	D	65,887.0	57,399.0	36,071.0	53,119.0	3.65871	194.347	119.730	3.100	21.310	1.200	0.520
17180	3732	NCD	NCE	South Haven Harbor	MI	D	0.0	0.0	6,900.0	2,300.0	109.47612	251.795	0.300	1.400	143.460	132.000	1,405.640
17300	3501	NCD	NCE	St Clair River	MI	D	68,612,929.0	69,061,904.0	75,530,978.0	71,068,603.7	0.01645	1,169.043	1,001.890	720.800	1,424.510	1,092.600	866.270
87489	4953	NPD	NPA	St George Harbor	AK	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
17350	3733	NCD	NCE	St Joseph Harbor	MI	D	543,184.0	485,061.0	631,122.0	553,122.3	2.02364	1,119.319	674.010	1,527.800	923.720	682.000	1,018.050
74572	886	SAD	SAS	St Mary's River	GA	D	49,230.0	47,739.0	77,456.0	58,141.7	0.00619	0.360	0.000	0.000	0.000	0.000	0.000
17380	3810	NCD	NCE	St Mary's River	MI	D	71,222,535.0	69,622,931.0	75,939,043.0	72,261,503.0	0.12001	8,672.118	6,853.810	8,090.380	9,299.890	9,140.500	11,609.630
10169	4952	NPD	NPA	St Paul Island Harbor	AK	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
74390	2119	SAD	SAJ	St Petersburg Harbor	FL	D	527.0	9,917.0	3,361.0	4,601.7	26.83966	123.507	0.000	0.000	0.000	19.800	49.930
39137	317	NED	NED	Stamford Harbor	CT	D	754,195.0	873,995.0	1,115,561.0	914,583.7	0.10395	95.067	0.000	0.000	0.000	0.000	0.000
383	111	NED	NED	Stockton Harbor	ME	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
17660	3775	NCD	NCE	Sturgeon Bay Harbor	WI	D	114,282.0	148,778.0	87,662.0	116,907.3	3.13606	366.628	143.000	151.300	394.900	0.000	276.230
17720	4200	SPD	SPN	Suisun Bay Channel	CA	D	6,340,058.0	7,086,773.0	7,556,022.0	6,994,284.3	0.05534	387.047	832.730	407.400	623.370	507.800	826.450
73597	403	NAD	NAB	Susquehana River, Havre de Grace	MD	D	901,354.0	1,424,973.0	1,986,122.0	1,437,483.0	0.02548	36.628	0.000	0.000	0.000	0.000	0.000
72902	4720	NPD	NPS	Tacoma Harbor	WA	D	20,116,344.0	18,651,709.0	17,615,819.0	18,794,624.0	0.00415	77.952	88.010	156.200	135.500	0.000	0.000
17960	2021	SAD	SAJ	Tampa Harbor	FL	D	46,434,233.0	44,992,777.0	51,902,190.0	47,776,400.0	0.04506	2,152.575	3,216.680	2,898.500	4,598.060	4,642.900	1,896.810
74536		SAD	SAM	Tampa Harbor Alafia River	FL	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
74545		SAD	SAM	Tampa Harbor East Bay Channel	FL	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
386	120	NED	NED	Tennants Harbor	ME	D	104.0	105.0	111.0	106.7	0.00938	0.000	0.000	0.000	0.000	0.000	0.000
18130	2404	SWD	SWG	Texas City	TX	D	43,104,101.0	53,652,781.0	44,350,803.0	47,035,895.0	0.02468	1,160.868	860.270	5.300	166.220	1,520.900	424.800
255	54	NED	NED	Thames River	CT	D	1,135,158.0	1,001,071.0	964,882.0	1,033,703.7	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
18230	4674	NPD	NPP	Tillamook Bay Bar	OR	D	2,730.0	3,427.0	1,759.0	2,638.7	114.73944	302.759	132.770	3,535.500	15.410	18.600	30.800
18280	3204	NCD	NCB	Toledo Harbor	OH	D	12,721,759.0	12,149,760.0	13,203,884.0	12,691,801.0	0.34642	4,396.698	3,309.950	4,117.000	3,591.800	8,427.900	2,940.130
18700	3926	NCD	NCE	Two Harbors	MN	D	11,160,046.0	10,711,059.0	9,288,029.0	10,386,378.0	0.01924	199.857	75.810	1,357.400	1,373.350	101.900	3.400
18710	3761	NCD	NCE	Two Rivers Harbor	WI	D	0.0	0.0	0.0	0.0	221,606.07000	221.606	309.760	0.000	161.600	37.800	32.200
18750	4664	NPD	NPP	Umpqua River	OR	D	422,005.0	207,190.0	231,895.0	287,030.0	6.33271	1,817.677	642.730	1,317.600	874.090	1,160.400	1,008.560
449	182	NED	NED	Vineyard Haven Harbor	MA	D	265,130.0	320,601.0	142,038.0	242,589.7	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
73714	398	NAD	NAN	Wallabout Channel	NY	D	115,310,756.0	116,735,760.0	126,100,614.0	119,382,376.7	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
19500	713	NAD	NAB	Washington Harbor	DC	D	558,570.0	661,580.0	704,207.0	641,452.3	0.59079	378.964	13.530	440.500	429.590	24.300	28.670
19560	3752	NCD	NCC	Waukegan Harbor	IL	D	519,828.0	576,559.0	603,733.0	566,706.7	1.07020	606.490	576.490	836.000	483.250	923.900	1,892.580
72823	4618	NPD	NPP	Westport Slough	OR	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000

DEEP-DRAFT NAVIGATION PROJECTS:

ACTUAL O&M EXPENDITURES(1990-1994); WATERBORNE COMMERCE(1992-1994);AND AVERGAGE O&M COSTS (1977-1994), AVERAGE TONNAGES (1992-1994) AND O&M COSTS PER TON (TOTAL 305)

PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M (1,000'S DOLLARS)	92 O&M	93 O&M	94 O&M
453	164	NED	NED	Weymouth Back River	MA	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
19790	149	NED	NED	Weymouth-Fore & Town River	MA	D	19,207,776.0	19,447,857.0	18,869,586.0	19,175,073.0	0.00011	2.148	0.000	0.000	0.000	0.000	0.000
19810	3724	NCD	NCE	White Lake Harbor	MI	D	0.0	0.0	0.0	0.0	145,478.87111	145.479	0.300	158.000	4.830	0.000	97.400
19990	4700	NPD	NPS	Willapa Harbor	WA	D	159,321.0	96,771.0	25,515.0	93,869.0	2.73057	256.316	5.860	163.900	48.240	525.200	62.600
20030	847	SAD	SAW	Wilmington Harbor	NC	D	7,225,990.0	7,813,327.0	7,911,069.0	7,650,128.7	0.54897	4,199.663	3,761.010	5,936.100	8,256.980	2,683.700	5,595.290
20040	554	SAD	SAW	Wilmington Harbor	DE	D	3,825,555.0	4,106,459.0	4,503,345.0	4,145,119.7	0.96473	3,998.926	25.290	2,210.200	2,638.000	2,407.700	2,569.730
259	315	NED	NED	Wilson Point	CT	D	0.0	0.0	0.0	0.0	0.00000	0.000	0.000	0.000	0.000	0.000	0.000
72852	4804	NPD	NPA	Wrangell Narrows	AK	D	717,639.0	569,022.0	547,023.0	611,228.0	0.33966	207.607	13.090	0.000	0.000	0.000	47.820
72903	4712	NPD	NPS	WW connecting Port Townsend & Oak B	WA	D	119,798.0	242,318.0	159,130.0	173,748.7	0.08771	15.239	5.800	7.000	8.580	0.000	43.000
20290	4672	NPD	NPP	Yaquina Bay Harbor	OR	D	195,737.0	156,849.0	107,730.0	153,438.7	12.01373	1,843.371	644.110	1,648.300	1,602.680	2,038.400	1,495.490
73803	648	NAD	NAO	York River	VA	D	6,091,529.0	5,478,080.0	6,943,963.0	6,171,190.7	0.00105	6.508	0.000	12.800	0.000	0.000	0.000
TOTALS							2,412,294,029	1,984,644,888	2,084,340,329	2,160,426,415	0.16449	405,536.521	272,131.210	400,670.360	385,905.100	379,539.100	415,855.530

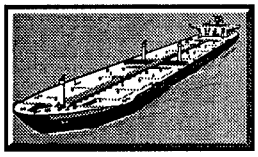
NOTES: (1) Waterborne Commerce Data from the USACE Waterborne Commerce Statistics Center, New Orleans, LA

(2) O&M Expenditures from the Corps Navigation Cost Recovery Database Sytem reports, USACE, Institute for Water Resources

(3) For projects with zero tonnage, the tonnage was set to <u>one</u> for the purpose of computing the average O&M cost per ton.

(4) For projects with zero average O&M (77-94), the o&m was set to <u>one</u> for the purpose of computing the average O&M cost per ton.

PWI = Project Work Item
WTWY = Waterway Code
TYPE D= Deep Draft Project



Navigation Operation and Maintenance:
Expenditures for Harbors and Waterways
Fiscal Year 1996

APPENDIX J - Shallow Draft Navigation Projects Not Subject to the Inland Waterway Fuel Tax, Actual and Average O&M Expenditures, Waterborne Commerce and Average Annual Tonnages, and Annual O&M Costs per Ton of Commerce

SHALLOW-DRAFT NAVIGATION PROJECTS:

ACTUAL O&M EXPENDITURES(1990-1994); WATERBORNE COMMERCE(1992-1994);AND AVERGAGE O&M COSTS (1977-1994), AVERAGE TONNAGES (1992-1994) AND O&M COSTS PER TON (TOTAL 733)

PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M (1,000'S DOLLARS)	92 O&M	93 O&M	94 O&M
76010	656	NAD	NAO	Aberdeen Creek	VA	S	23	50	15	29	0.034	0.000	0.000	0.000	0.000	0.000	0.000
20460		SAD	SAC	Adams Creek	SC	S	0	0	0	0	658.967	0.659	0.000	0.000	0.000	0.000	0.000
74547		POD	POD	Agana Small Boat Harbor	GU	S	0	0	0	0	3,429.391	3.429	2.630	0.000	0.000	0.000	0.000
74177	3763	NCD	NCE	Algoma Harbor	WI	S	0	0	0	0	50,408.200	50.408	0.000	0.000	0.000	293.200	37.100
73868	266	NAD	NAP	Alloway Creek	NJ	S	0	0	0	0	1,303.573	1.304	0.000	0.000	0.000	0.000	0.000
74573	882	SAD	SAS	Altamaha Oconee & Ocmulgee Rivers	GA	S	149	1520	80	583	0.472	0.275	0.000	0.000	0.000	0.000	0.000
73608	715	NAD	NAB	Anacostia River Basin	DC	S	558570	661580	704207	641452	0.242	155.031	0.000	0.000	129.240	2,058.900	92.000
74478	2123	SAD	SAJ	Anclote River	FL	S	552	1069	1500	1040	9.346	9.723	0.000	0.000	0.000	4.900	170.540
74251		NCD	NCR	Andalusia Harbor	IL	S	0	0	0	0	8,646.631	8.647	97.200	4.000	59.400	0.000	0.000
87009	1295	NED	NED	Andrews River	MA	S	0	0	0	0	24,737.591	24.738	56.490	0.000	0.000	83.200	0.080
430	2183	SAD	SAM	Apalachicola Bay	FL	S	0	0	0	0	231,551.110	231.551	88.880	123.000	34.560	153.000	317.900
30580	668	NAD	NAO	Appomattox River	VA	S	1366134	4180678	3019519	2855444	0.092	262.218	265.480	1,752.900	1,670.890	744.100	255.810
579	456	NAD	NAB	Aquia Creek	VA	S	0	0	0	0	14.322	0.014	0.000	0.000	0.000	0.000	0.000
46063		NCD	NCE	Arcadia Harbor	MI	S	0	0	0	0	243,489.293	243.489	84.180	121.400	64.060	78.500	101.140
7604	785	SAD	SAW	Atlantic Beach Channel	NC	S	1867	2066	4	1312	6.440	8.452	145.370	0.000	0.000	0.000	0.000
770	3631	NCD	NCE	Au Sable Harbor	MI	S	0	0	0	0	21,069.078	21.069	11.740	249.200	8.860	0.100	0.060
74036		POD	POD	Auasi Small Boat Harbor	AS	S	0	0	0	0	3,934.094	3.934	0.000	0.000	21.900	33.500	21.000
87282		POD	POD	Aunuu Harbor	AS	S	0	0	0	0	55,667.049	55.667	22.750	34.900	56.400	317.000	423.620
76024	770	SAD	SAW	Avon Harbor	NC	S	825	789	20	545	51.613	28.112	0.000	0.000	0.000	0.000	0.000
73551	491	NAD	NAB	Back Creek	MD	S	150	293	233	225	0.270	0.061	0.000	0.000	0.000	0.000	0.000
74482	2110	SAD	SAJ	Bakers Haulover Inlet	FL	S	0	0	0	0	7,776.533	7.777	0.000	0.000	0.000	0.000	0.000
900	2066	LMD	LMN	Barataria Bay Waterway	LA	S	1538324	1872704	727394	1379474	1.075	1,482.328	1,230.570	2,024.700	233.270	295.400	376.360
44036	3234	NCD	NCB	Barcelona Harbor	NY	S	0	0	0	0	125,939.867	125.940	0.000	0.000	0.000	0.000	0.000
950	284	NAD	NAP	Barnegat Inlet	NJ	S	1199	586	452	746	941.594	702.116	979.610	888.100	721.950	988.200	1,113.180
74591	828	SAD	SAW	Bay River	NC	S	5727	6254	191	4057	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74320	3865	NCD	NCE	Bayfield Harbor	WI	S	26432	26728	29136	27432	0.047	1.285	0.000	0.000	0.000	0.000	0.000
155	2230	LMD	LMN	Bayou Bonfouca	LA	S	7494	8702	122146	46114	0.017	0.806	0.000	0.000	0.000	0.000	0.000
74520	2200	SAD	SAM	Bayou Coden	AL	S	0	0	0	0	94,568.150	94.568	338.230	5.300	0.420	1.500	22.200
1110	2235	LMD	LMN	Bayou Dupre	LA	S	0	0	144644	144644	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158	2231	LMD	LMN	Bayou Lacombe	LA	S	8750	137	0	2962	0.272	0.806	0.000	0.000	0.000	0.000	0.000
2310	2070	LMD	LMN	Bayou LaFourche & LaFourche Jump WW	LA	S	2031549	2214254	3114366	2453390	0.019	46.254	134.180	2,214.800	76.200	1.200	1,758.000
162	2242	LMD	LMN	Bayou Plaquemine Brule	LA	S	0	614	2662	1092	0.001	0.000	0.000	0.000	0.000	0.000	0.000
24	2237	LMD	LMN	Bayou Segnette Waterway	LA	S	662	2757	1653	1691	15.276	25.826	46.150	204.500	0.760	3.000	0.000
1150	2244	LMD	LMN	Bayou Teche	LA	S	956370	1088423	1088831	1044541	0.347	362.245	265.500	295.700	578.550	379.800	1,377.480
1160	2064	LMD	LMN	Bayou Teche Vermillion River	LA	S	1104838	1592812	1433807	1377152	0.025	34.907	0.000	8.900	0.000	0.000	24.600
165	2061	LMD	LMN	Bayou Terrebonne	LA	S	198673	224693	250838	224735	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166		LMD	LMN	Bayou Vermillion	LA	S	0	0	1421487	1421487	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80005	2054	LMD	LMN	Bayous La Loutre St Malo	LA	S	48418	44102	34908	42476	0.000	0.000	0.000	0.000	0.000	0.000	0.000

SHALLOW-DRAFT NAVIGATION PROJECTS:

ACTUAL O&M EXPENDITURES(1990-1994); WATERBORNE COMMERCE(1992-1994);AND AVERGAGE O&M COSTS (1977-1994), AVERAGE TONNAGES (1992-1994) AND O&M COSTS PER TON (TOTAL 733)

PN	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M	92 O&M	93 O&M	94 O&M
													(1,000'S DOLLARS)				
328	102	NED	NED	Beals Harbor	ME	S	0	20	0	7	0.150	0.000	0.000	0.000	0.000	0.000	0.000
1290	761	SAD	SAW	Belhaven Harbor	NC	S	7204	35061	26025	22763	0.905	20.591	0.000	0.000	0.000	0.000	0.000
1350	2400	SWD	SWF	Benbrook Lake	TX	S	0	0	0	0	121,192.400	121.192	72.200	79.400	50.900	20.300	82.300
100004	4346	SPD	SPN	Berkeley Marina	CA	S	14044	34100	0	16048	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1004	4346	SPD	SPN	Berkley Harbor	CA	S	14044	34100	0	16048	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24100	4847	NPD	NPA	Bethel Small Boat Harbor	AK	S	27031	46960	38411	37467	0.547	20.487	0.000	0.840	329.260	21.200	0.000
1410	3846	NCD	NCE	Big Bay Harbor	MI	S	0	0	0	0	20,676.006	20.676	0.000	143.400	5.100	0.100	20.900
	2240	LMD	LMN	Big Pigeon & Little Pigeon Bayous	LA	S	0	0	131068	131068	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10222	2345	ORD	ORH	Big Sandy River	WV	S	22400387	23471224	22176800	22682804	0.015	344.344	697.940	817.300	723.700	777.700	991.300
612	3785	NCD	NCE	Big Suamico Harbor	WI	S	0	23000	0	7667	7.534	57.759	0.000	0.000	0.000	148.800	223.180
73869	259	NAD	NAP	Big Timber Creek	NJ	S	0	0	0	0	1,207.960	1.208	0.000	0.000	0.000	0.000	0.000
1520	2002	SAD	SAM	Biloxi Harbor	MS	S	1896832	1781628	1607458	1761973	0.384	676.621	136.750	133.000	930.720	102.700	585.630
74321	2322	NCD	NCS	Black River	WI	S	232965	92499	161355	162273	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1640	3861	NCD	NCE	Black River, Upper Peninsula	MI	S	0	0	0	0	36,836.301	36.836	0.030	0.000	89.640	12.100	40.000
30290	709	NAD	NAB	Black Walnut Harbor	MD	S	0	0	0	0	21,898.456	21.898	0.000	0.000	0.000	0.000	0.000
23230	2190	SAD	SAM	Blackwater River	FL	S	2687		28616	10434	0.907	9.464	0.000	0.000	26.080	1.100	0.620
72913	4744	NPD	NPS	Blaine Harbor	WA	S	0	3667	2544	2070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1850	4392	SPD	SPN	Bodega Bay	CA	S	5806			1935	53.620	103.773	0.000	662.500	173.440	76.700	42.300
87750		NCD	NCE	Bolles Harbor	MI	S	0	0	0	0	59,783.646	59.784	0.000	300.900	7.110	27.800	35.170
76060	2213	SAD	SAM	Bon Secour River	AL	S	7015	6493	6204	6571	10.836	71.200	551.940	0.000	1.800	2.700	4.010
50045	1239	NAD	NAB	Bonum Creek	VA	S	0	1613	1250	954	25.213	24.061	0.000	30.000	98.000	184.000	0.000
234	308	NED	NED	Branford Harbor	CT	S	0	0	0	0	74,384.676	74.385	781.820	0.000	0.000	0.000	0.000
581	471	NAD	NAB	Branson Cove	VA	S	828	725	814	789	0.482	0.380	0.000	0.000	0.000	0.000	0.000
73553	463	NAD	NAB	Breton Bay	MD	S	299077	189540	78826	189148	0.000	0.000	0.000	0.000	0.000	0.000	0.000
582	641	NAD	NAO	Broad Creek	VA	S	51	35	0	29	1,561.959	44.776	0.000	0.000	22.500	25.400	276.870
73554	445	NAD	NAB	Broad Creek	MD	S	0	0	0	0	2,657.883	2.658	0.000	0.000	0.000	0.000	38.730
41057	353	NAD	NAN	Bronx River	NY	S	154982	98659	90194	114612	1.829	209.637	88.670	919.900	44.850	0.000	0.000
87533		SAD	SAC	Brookgreen Garden Canal	SC	S	0	0	0	0	103.592	0.104	0.000	0.000	1.020	0.700	0.330
41022	224	NAD	NAN	Brown Creek	NY	S	3732		2822	2185	0.000	0.000	0.000	101.400	0.000	0.000	0.000
556	1268	NED	NED	Bullocks Point Cove	RI	S	0	0	0	0	1,661.289	1.661	0.000	0.000	0.000	0.000	0.000
73727	509	NAD	NAN	Burlington Harbor	VT	S	10776			3592	0.360	1.293	3.980	0.000	0.000	0.000	0.000
87387	3791	NCD	NCC	Burns Waterway Small Boat Harbor	IN	S	0	0	0	0	58,889.748	58.890	218.290	175.200	112.610	114.400	221.700
402	1176	NED	NED	Buttermilk Bay Channel	MA	S	0	0	0	0	7,162.311	7.162	0.000	3.000	0.000	0.000	0.000
20600	2086	SAD	SAM	Cadet Bayou	MS	S	0	0	0	0	100,148.686	100.149	0.210	1.200	0.000	0.000	0.000
404	43	NED	NED	Canapitsit Channel	MA	S	270	71	0	114	0.009	0.000	0.000	0.000	0.000	0.000	0.000
583	636	NAD	NAO	Carters Creek	VA	S	44	1819	23	629	0.002	0.000	0.000	0.000	0.000	0.000	0.000
74199	3632	NCD	NCE	Caseville Harbor	MI	S	0	0	0	0	29,568.773	29.569	0.000	235.300	5.720	1.100	0.550
74596	812	SAD	SAW	Cashie River	NC	S	512	244	13	256	0.004	0.000	0.000	0.000	0.000	0.000	0.000

SHALLOW-DRAFT NAVIGATION PROJECTS:

ACTUAL O&M EXPENDITURES(1990-1994); WATERBORNE COMMERCE(1992-1994);AND AVERGAGE O&M COSTS (1977-1994), AVERAGE TONNAGES (1992-1994) AND O&M COSTS PER TON (TOTAL 733)

PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M (1,000'S DOLLARS)	92 O&M	93 O&M	94 O&M
73920		NCD	NCB	Cattaraugus Creek	NY	S	0	0	0	0	11,829.927	11.830	18.910	31.000	0.700	48.200	45.270
2810	2401	SWD	SWG	Cedar Bayou	TX	S	302824	349680	321395	324633	0.369	119.914	0.300	0.000	0.000	0.000	0.000
87211		NAD	NAP	Cedar Creek	NJ	S	0	0	0	0	20,444.771	20.445	0.000	0.000	25.600	0.000	0.000
74484	2129	SAD	SAJ	Cedar Keys Harbor	FL	S	3666	1631	0	1766	0.001	0.000	0.000	0.000	0.000	0.000	0.000
74601	835	SAD	SAW	Channel connectThoroughfare Bay to Cedar	NC	S	280	6383	4040	3568	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2890	842	SAD	SAW	Channel from Back Sound to Lookout Bight	NC	S	8188	10342	5177	7902	17.016	134.464	26.330	8.400	126.300	2.400	0.000
8213		SWD	SWG	Channel to Red Bluff	TX	S	0	0	0	0	79,261.611	79.262	0.000	0.000	0.000	853.000	647.920
12150	2113	SAD	SAJ	Channel, Naples-Big Marco Pass	FL	S	1347	1516	0	954	149.243	142.428	35.280	22.700	60.470	516.400	0.860
39001	175	NED	NED	Chatham Harbor	MA	S	4456	4184	0	2880	63.706	183.474	781.050	154.900	7.020	141.500	4.510
73626	379	NAD	NAN	Cheesequake Creek	NJ	S	0	0	0	0	24,346.471	24.346	59.510	45.500	75.000	164.600	118.000
8215	248	NAD	NAP	Chesapeake & DE Canal, St George's Bridge	DE	S	13529305	14532953	13633586	13898615	0.107	1,488.937	0.000	0.000	0.000	14,010.900	14,008.920
19550	600	NAD	NAO	Chesapeake Bay-Delaware Bay	VA	S	950	488	106	515	2,096.076	1,078.780	877.750	921.800	1,218.250	1,256.600	1,156.950
87303	295	NAD	NAO	Chesconessex Creek	VA	S	14	136	2	51	0.020	0.000	0.000	0.000	0.000	0.000	0.000
73557	409	NAD	NAB	Chester River	MD	S	102747	12107	31229	48694	2.817	137.155	19.620	0.000	48.280	966.300	43.160
3130	4650	NPD	NPP	Chetco River	OR	S	6893	36360	5315	16189	26.800	433.881	373.100	500.700	341.070	328.700	249.260
584	1334	NAD	NAO	Chincoteague Bay	VA	S	0	0	0	0	18,171.067	18.171	0.000	113.100	0.000	4.100	0.000
10890	730	NAD	NAO	Chincoteague Bay Channel	VA	S	732	89	8	276	0.004	0.000	0.000	0.000	0.000	0.000	0.000
88918	731	NAD	NAO	Chincoteague Harbor of Refuge	VA	S	622	284	104	337	0.003	0.000	0.000	0.000	0.000	0.000	0.000
30730	2405	SWD	SWG	Chocolate Bayou	TX	S	3343072	3715107	3756726	3604968	0.016	59.263	0.000	0.000	0.000	304.700	788.540
73558	423	NAD	NAB	Choptank River	MD	S	226473	248126	291988	255529	0.009	2.299	0.000	0.000	0.000	0.000	0.000
73752	808	SAD	SAW	Chowan River	NC	S	313583	197843	199850	237092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73560	707	NAD	NAB	Claiborne Harbor	MD	S	0	0	0	0	40,631.372	40.631	0.000	0.000	0.000	0.000	0.000
3330	2014	SWD	SWG	Clear Creek and Lake	TX	S	0	66	2491	852	12.917	11.009	0.000	0.000	0.000	0.000	0.000
3400	2121	SAD	SAJ	Clearwater Pass	FL	S	2717	6	3450	2058	34.217	70.408	15.580	0.800	71.920	79.600	230.550
39136	306	NED	NED	Clinton Harbor	CT	S	0	0	0	0	10,636.978	10.637	0.000	0.000	0.000	0.000	0.000
3490		NCD	NCE	Clinton River	MI	S	0	0	0	0	337,645.246	337.645	103.180	483.900	1,118.350	448.600	47.800
558	193	NED	NED	Coasters Island Harbor	RI	S	0	0	542	542	0.002	0.000	0.000	0.000	0.000	0.000	0.000
3540	267	NAD	NAP	Cohansey River	NJ	S	2837	5677	2	2839	83.509	237.054	953.820	1.900	17.800	1.600	0.000
3560	166	NED	NED	Cohasset Harbor	MA	S	0	0	0	0	11,973.333	11.973	0.000	0.000	0.000	0.000	0.000
72863	8694	NPD	NPS	Columbia River btn Wenatchee Falls	WA	S	0	15	0	5	0.200	0.000	0.000	0.000	0.000	0.000	0.000
23080	4681	NPD	NPP	Columbia River btw Chinook & Sand Island	OR	S	0	2040	1415	1152	325.184	374.504	51.250	249.300	258.560	0.700	10.400
3570	4680	NPD	NPP	Columbia River, Baker Bay	OR	S	0	7411	10024	5812	41.476	241.047	54.870	38.300	16.530	28.000	632.010
73680	364	NAD	NAN	Coney Island Creek	NY	S	14639	19001	9411	14350	0.220	3.157	58.710	0.000	0.000	0.000	0.000
3870	4662	NPD	NPP	Coos and Millicoma River	OR	S	0	0	0	0	124,332.614	124.333	100.450	19.000	0.000	0.000	0.000
3900	4656	NPD	NPP	Coquille River	OR	S	47	71703	14	23921	14.845	355.107	188.060	525.400	636.420	339.000	499.310
3950	4814	NPD	NPA	Cordova Harbor	AK	S	99656	104103	31766	78508	0.505	39.676	0.000	79.800	314.700	0.000	0.000
338	103	NED	NED	Corea Harbor	ME	S	12	15	1257	428	0.002	0.000	0.000	0.000	0.000	0.000	0.000
3970	3920	NCD	NCE	Cornucopia Harbor	WI	S	0	0	0	0	41,161.318	41.161	0.000	46.500	63.740	0.700	0.040

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PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M	92 O&M	93 O&M	94 O&M
													(1,000'S DOLLARS)				
4210	4624	NPD	NPP	Cowlitz River	WA	S	0	194	16	70	349.316	24.452	0.000	0.000	0.000	0.000	0.000
72788	4834	NPD	NPA	Craig Harbor	AK	S	1671	1126	2048	1615	4.624	7.467	0.000	0.000	76.300	0.000	2.000
585	617	NAD	NAO	Cranes Creek	VA	S	41			14	3,235.800	44.223	0.000	182.000	39.700	0.000	0.000
339	114	NED	NED	Criehaven Harbor	ME	S	0	0	0	0	355.556	0.356	0.000	0.000	0.000	0.000	6.400
51950	712	NAD	NAB	Crisfield Harbor	MD	S	4365	6696	1847	4303	23.200	99.822	1,097.840	0.000	49.400	0.000	0.000
4300	2044	SAD	SAJ	Cross Florida Barge Canal	FL	S	0	0	0	0	1,588,815.621	1,588.816	1,720.060	1,497.000	1,733.200	905.400	191.300
74488	2127	SAD	SAJ	Crystal River	FL	S	1217	44706	0	15308	0.055	0.847	0.000	0.000	0.000	0.000	15.240
409	185	NED	NED	Cuttyhunk Harbor	MA	S	1185	906	719	937	33.043	30.950	0.000	0.000	102.000	6.200	141.000
74576	778	SAD	SAS	Darien Harbor	GA	S	6212	3172	174	3186	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4480	2194	SAD	SAM	Dauphin Island Bay	AL	S	1652	17249	173	6358	21.815	138.702	569.980	4.500	43.380	90.700	16.240
42017	645	NAD	NAO	Davis Creek	VA	S	147	89	47	94	0.011	0.000	0.000	0.000	0.000	0.000	0.000
75117	660	NAD	NAO	Deep Creek, Newport News	VA	S	185	182	185	184	1,145.229	210.722	111.520	1,037.800	0.000	0.000	0.000
72865	4614	NPD	NPP	Deep River	WA	S	2			1	1.500	0.000	0.000	0.000	0.000	0.000	0.000
4610	4687	NPD	NPP	Depoe Bay	OR	S	323	158	133	205	388.321	79.476	11.110	7.700	5.400	77.400	630.100
4680	3812	NCD	NCE	Detour Harbor	MI	S	89	141	0	77	305.729	23.439	0.000	0.000	0.000	0.000	0.000
	2015	SWD	SWG	Dickinson Bayou	TX	S	0	0	555862	555862	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4800	4846	NPD	NPA	Dillingham Harbor	AK	S	12278	20472	22717	18489	28.819	532.831	535.590	5.160	388.230	390.900	459.010
20710	2090	SAD	SAM	Dog and Fowl Rivers	AL	S	0	0	0	0	117,225.417	117.225	464.840	0.100	0.850	201.900	289.700
4930	2013	SWD	SWG	Double Bayou	TX	S	240		1	80	868.129	69.740	0.000	0.000	0.000	0.000	0.000
72789	4811	NPD	NPA	Douglas Harbor	AK	S	0	50	2771	940	3.793	3.567	0.000	0.000	0.000	0.000	0.000
26060	836	SAD	SAW	Drum Inlet	NC	S	1734			578	14.800	8.554	0.000	12.600	0.680	0.000	140.500
72790	4871	NPD	NPA	Dry Pass	AK	S	0	0	0	0	9,142.489	9.142	0.000	0.000	0.000	0.000	0.000
73580	429	NAD	NAB	Duck Point Cove	MD	S	821	2360	1254	1478	11.258	16.643	0.000	0.000	0.000	0.000	0.000
5080	168	NED	NED	Duxbury Harbor	MA	S	0	0	0	0	58,105.367	58.105	0.000	0.000	0.000	0.000	0.000
22870	3859	NCD	NCE	Eagle Harbor	MI	S	0	0	0	0	1,843.350	1.843	0.050	0.000	0.000	0.000	0.000
41004	348	NAD	NAN	East Chester Creek	NY	S	1194015	1115389	1177358	1162254	0.134	156.226	64.940	161.500	172.700	70.300	202.240
4980	2189	SAD	SAM	East Pass Channel	FL	S	0	0	0	0	557,877.328	557.877	120.790	635.700	106.020	236.600	1,632.400
5200	2209	LMD	LMK	East Pearl River	MS	S	239559	226213	361955	275909	0.066	18.190	0.000	0.000	0.000	0.000	0.000
5220	1226	NAD	NAN	East Rockaway Inlet	NY	S	962000	954000	934000	950000	0.784	745.116	834.650	370.300	357.060	215.600	2,377.520
75118	101	NED	NED	Eastport Harbor	ME	S	245149	15249	192376	150925	0.124	18.661	0.000	0.000	0.000	0.000	0.000
74489	2105	SAD	SAJ	Eau Gallie Harbor	FL	S	0	0	0	0	48,443.178	48.443	0.000	0.000	0.000	0.000	1.920
74604	760	SAD	SAW	Edenton Harbor	NC	S	76761	42754	51702	57072	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76148		NPD	NPS	Edmonds Harbor	WA	S	0	0	0	0	15,701.284	15.701	0.000	0.000	0.000	0.000	0.000
72792	4872	NPD	NPA	Egegik River	AK	S	528	4367	5974	3623	0.277	1.005	0.000	0.000	0.000	0.000	0.000
72793	4838	NPD	NPA	Elfin Cove	AK	S	682		642	441	2.276	1.005	0.000	0.000	0.000	0.000	0.000
88833	2027	ORD	ORH	Elk River	WV	S	21827134	22317864	22283974	22142991	0.003	69.306	0.000	288.800	1.130	295.600	0.240
72866	4616	NPD	NPP	Elochman Slough	WA	S	0	0	0	0	10,476.702	10.477	122.270	0.000	0.000	0.000	0.000
5620	2191	SAD	SAM	Escambia-Conecuh Rivers	FL	S	2458701	2561140	2250784	2423542	0.020	47.804	27.330	0.000	7.320	0.500	0.000

SHALLOW-DRAFT NAVIGATION PROJECTS:

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PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M	92 O&M	93 O&M	94 O&M
													(1,000'S DOLLARS)				
74490	2112	SAD	SAJ	Everglades Harbor	FL	S	974	1111	0	695	0.001	0.000	0.000	0.000	0.000	0.000	0.000
415	177	NED	NED	Falmouth Harbor	MA	S	1355	1033	937	1108	15.672	17.369	0.000	0.000	0.000	0.000	0.000
74605	822	SAD	SAW	Far Creek	NC	S	3507	3185	128	2273	33.698	76.608	217.560	360.300	5.650	0.000	0.000
5890	220	NAD	NAN	Fire Island Inlet	NY	S	0	0	0	0	1,196,397.209	1,196.397	1,559.960	51.500	1,514.800	2,715.400	1,414.730
73583	431	NAD	NAB	Fishing Bay	MD	S	2239	2060	319	1539	62.931	96.871	486.370	0.000	0.000	0.000	0.000
73584	483	NAD	NAB	Fishing Creek	MD	S	2653	1065	0	1239	98.216	121.723	17.430	402.300	38.020	0.000	0.000
5970	2193	SAD	SAM	Fly Creek	AL	S	0	0	0	0	46,447.666	46.448	86.870	0.000	0.000	87.600	179.300
6220	2114	SAD	SAJ	Fort Myers Beach	FL	S	2074	16063	17775	11971	4.548	54.448	0.000	0.000	0.000	7.900	14.870
6610	3779	NCD	NCE	Fox River	WI	S	0	0	0	0	1,955,793.712	1,955.794	1,461.850	1,708.100	1,681.000	1,583.000	1,792.890
6200	2247	LMD	LMN	Freshwater Bayou	LA	S	199683	452737	394652	349024	4.587	1,600.949	2,572.860	1,964.500	1,039.880	1,378.600	1,989.820
72794	4873	NPD	NPA	Gastineau Channel	AK	S	0	0	0	0	1,112.094	1.112	0.000	0.000	0.000	0.000	0.000
73686	215	NAD	NAN	Glen Cove Creek	NY	S	108720	143830	178070	143540	0.053	7.638	0.000	0.000	0.000	0.000	0.000
6650	1332	NAD	NAB	Goose Creek	MD	S	0	0	0	0	737.778	0.738	0.000	0.000	0.000	0.000	0.000
6690	2040	SAD	SAM	Grand Lagoon	FL	S	0	0	0	0	109.778	0.110	0.000	0.000	0.000	0.000	0.000
6760	2400	SWD	SWF	Grapevine Lake	TX	S	0	0	0	0	61,745.211	61.745	70.000	17.700	17.500	36.200	24.100
24920	4682	NPD	NPP	Grays River	WA	S	0	31	0	10	0.097	0.000	0.000	0.000	0.000	0.000	0.000
74471	853	SAD	SAC	Great Pee Dee River	SC	S	6	3	1	3	0.300	0.000	0.000	0.000	0.000	0.000	0.000
60570	221	NAD	NAN	Great South Bay	NY	S	9741	10280	10620	10214	8.038	82.095	0.000	100.000	357.690	1,162.500	0.090
6920	1175	NED	NED	Green Harbor	MA	S	0	1	1	1	275,620.545	183.747	180.400	318.000	113.270	386.400	253.900
73692	527	NAD	NAN	Greenport Harbor	NY	S	0	4614	0	1538	0.001	0.000	0.000	0.000	0.000	0.000	0.000
20860	677	NAD	NAO	Greenvale Creek	VA	S	6	3	0	3	0.333	0.000	0.000	0.000	0.000	0.000	0.000
780	677	NAD	NAO	Greenvale Creek, Lane County	VA	S	6	3	0	3	5,794.429	17.383	0.000	192.000	0.000	0.000	19.800
7040	319	NED	NED	Greenwich Harbor	CT	S	2129	9576	0	3902	0.000	0.000	0.000	0.000	0.000	0.000	0.000
46103	3714	NCD	NCE	Greilickville Harbor	MI	S	221365	220931	282227	241508	0.021	5.146	0.000	0.000	0.000	0.000	92.630
239	307	NED	NED	Guilford Harbor	CT	S	0	0	0	0	18,620.556	18.621	0.000	0.000	0.000	0.000	335.170
87619		POD	POD	Haleiwa Small Boat Harbor	HI	S	0	0	0	0	7,437.717	7.438	0.000	0.000	0.000	0.000	0.000
74701	4386	SPD	SPN	Half Moon Bay Harbor	CA	S	4813			1604	101.538	162.900	0.000	0.000	0.000	0.000	0.000
72918	4716	NPD	NPS	Hammersley Inlet	WA	S	311952	384438	499939	398776	0.007	2.856	5.800	7.000	8.580	0.000	0.000
73775	5738	NAD	NAO	Hampton Creek	VA	S	206447	378156	400092	328232	0.152	49.881	0.000	0.000	0.000	0.000	0.000
39063	1167	NED	NED	Hampton Harbor	NH	S	0	0	0	0	82,501.392	82.501	0.000	0.000	0.000	0.000	0.000
74258		NCD	NCR	Hannibal Small Boat Harbor	MO	S	0	0	0	0	3,423.282	3.423	0.000	0.000	0.000	0.000	0.000
443	1275	NED	NED	Harbor of Refuge at Sandy Bay	MA	S	10	11	8	10	0.103	0.000	0.000	0.000	0.000	0.000	0.000
53550	3614	NCD	NCE	Harrisville Harbor	MI	S	0	0	0	0	31,983.553	31.984	0.000	0.000	0.000	174.700	86.200
7380	626	SAD	SAS	Hartwell Lake	GA	S	0	0	0	0	137,170.569	137.171	54.000	105.000	108.800	21.600	125.900
522	303	NED	NED	Hay (West Harbor), Fisher's Island	NY	S	2039	2027	2065	2044	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7440	2293	LMD	LMM	Helena Harbor	AR	S	2185788	1343283	1989408	1839493	0.188	346.472	257.850	180.200	416.120	221.100	168.310
73695	514	NAD	NAN	Hempstead Harbor	NY	S	677617	835337	1006382	839779	0.007	6.040	70.080	40.000	0.000	0.000	0.000
73585	484	NAD	NAB	Herring Bay & Rockhold Creek	MD	S	0	0	0	0	61,570.502	61.571	4.880	0.000	0.000	58.500	249.000

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PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M (1,000'S DOLLARS)	92 O&M	93 O&M	94 O&M
73586	473	NAD	NAB	Herring Creek	MD	S	0	0	0	0	5,463.850	5.464	0.000	0.000	0.000	0.000	0.000
62011	473	NAD	NAB	Herring Creek, Tall Timbers	MD	S	0	0	0	0	202.000	0.202	0.000	0.000	0.000	0.000	0.000
74496	2126	SAD	SAJ	Homosassa River	FL	S	1217	1686	0	968	0.001	0.000	0.000	0.000	0.000	0.000	0.000
22690	428	NAD	NAB	Honga River, Tar Bay	MD	S	18170	22893	7249	16104	14.595	235.044	1,041.240	0.000	0.030	77.600	33.600
73776	733	NAD	NAO	Horn Harbor	VA	S	50	42	17	36	271.860	9.878	110.630	0.200	0.000	0.000	0.000
74495	2131	SAD	SAJ	Horseshoe Cove	FL	S	1611	960	0	857	2.482	2.127	0.000	0.000	0.000	9.500	29.610
7250	626	NAD	NAO	Hoskins Creek	VA	S	64200	57700	82862	68254	0.144	9.799	0.000	0.000	0.000	0.000	0.000
73699	519	NAD	NAN	Huntington Harbor	NY	S	0	0	0	0	647.778	0.648	0.000	0.000	0.000	0.000	0.000
421	176	NED	NED	Hyannis Harbor	MA	S	111403	120650	0	77351	0.509	39.347	0.000	225.400	27.800	0.800	0.000
8110	235	NAD	NAP	Indian River Inlet and Bay	DE	S	0	0	0	0	190,667.577	190.668	103.050	475.500	78.620	2.500	243.070
48140		NCD	NCE	Inland Route	MI	S	0	0	0	0	35,553.467	35.553	29.860	29.200	45.200	24.200	57.880
2480	2062	SAD	SAJ	Intra WW,Caloosahatchee R.to Anclote R	FL	S	805121	1215418	887602	969380	0.386	373.765	36.260	63.800	47.570	79.200	294.890
8220		NCD	NCB	Irondequoit Bay	NY	S	0	0	0	0	52,610.707	52.611	0.000	26.200	36.800	522.400	0.310
73587	421	NAD	NAB	Island Creek	MD	S	249	700	240	396	1.105	0.438	0.000	0.000	0.000	0.000	0.000
73588	472	NAD	NAB	Island Creek-St George Island	MD	S	0	0	0	0	32,215.169	32.215	0.030	0.000	0.300	0.000	33.160
	154	NED	NED	Island End River	MA	S	0	0	462839	462839	0.000	0.000	0.000	0.000	0.000	0.000	0.000
347	10	NED	NED	Isle Au Haut Thoroughfare	ME	S	263	794	301	453	22.597	10.229	0.000	0.000	0.000	0.000	0.000
8150	233	NAD	NAP	IWW, Chincoteague Bay to Delaware Bay	DE	S	0	0	0	0	4,158.552	4.159	16.030	0.000	0.100	0.000	0.000
10045	2047	SAD	SAJ	IWW, Miami to Key West	FL	S	0	0	664486	664486	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8170	237	NAD	NAP	IWW, Rehoboth Bay to Delaware Bay	DE	S	0	0	0	0	212,374.727	212.375	31.220	40.800	119.970	187.500	1,903.200
27031	642	NAD	NAO	Jackson Creek	VA	S	90	20	89	66	0.015	0.000	0.000	0.000	0.000	0.000	0.000
1001	2179	SAD	SAJ	Johns Pass, Pinellas County	FL	S	0	0	0	0	179,173.448	179.173	189.100	265.000	0.000	670.400	60.720
41006	226	NAD	NAN	Jones Inlet	NY	S	4400			1467	32.359	47.460	73.000	3,510.600	0.000	0.000	0.000
348	26	NED	NED	Josias River	ME	S	0	0	0	0	11,016.667	11.017	0.000	0.000	0.000	0.000	198.300
72797	4810	NPD	NPA	Juneau Harbor	AK	S	163151	193313	222429	192964	0.033	6.399	0.000	0.000	0.000	0.000	0.000
11111	3210	NCD	NCB	Kelley's Island Harbor	OH	S	564373	564011	521228	549871	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8900	25	NED	NED	Kennebunk River	ME	S	0	0	0	0	35,740.817	35.741	0.000	9.500	0.000	0.000	0.000
8980	377	NAD	NAN	Keyport Harbor	NJ	S	0	0	0	0	68,218.271	68.218	548.810	29.400	0.000	0.000	0.000
73589	418	NAD	NAB	Knapps Narrows	MD	S	0	3	0	1	129,698.121	129.698	4.280	0.000	464.230	24.000	0.000
48000	3925	NCD	NCE	Knife River Harbor	MN	S	0	0	0	0	5,732.556	5.733	0.000	0.000	0.000	0.000	0.000
74607	673	SAD	SAW	Knobbs Creek	NC	S	34117	36097	106061	58758	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9280	2188	SAD	SAM	La Grange Bayou	FL	S	210648	214340	237039	220676	0.020	4.317	0.000	2.300	7.300	0.000	7.900
9450	3864	NCD	NCE	La Pointe Harbor	WI	S	14964	21628	20255	18949	0.701	13.277	0.000	41.200	70.000	0.700	0.040
73590	422	NAD	NAB	La Trappe River	MD	S	0	0	0	0	1,410.739	1.411	0.000	0.000	0.000	0.000	0.000
9210	3858	NCD	NCE	Lac La Belle Harbor	MI	S	0	0	0	0	31,828.994	31.829	0.000	0.000	0.000	0.000	93.410
73778	670	NAD	NAO	Lafayette River	VA	S	13131	1003	0	4711	4.037	19.022	0.000	0.000	47.900	326.000	2.700
9281	1324	NED	NED	Lagoon Pond, Martha's Vinyard	MA	S	17	8	0	8	518.001	4.317	0.000	2.300	7.300	0.000	7.900
88812		NCD	NCS	Lake City Small Boat Harbor	MN	S	0	0	0	0	3,767.444	3.767	0.000	0.000	0.000	0.000	0.000

SHALLOW-DRAFT NAVIGATION PROJECTS:

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PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M	92 O&M	93 O&M	94 O&M
													(1,000'S DOLLARS)				
9340	535	NAD	NAN	Lake Montauk Harbor	NY	S	0	0	0	0	48,465.930	48.466	23.670	213.100	76.900	100.000	96.850
9360	2269	LMD	LMK	Lake Providence Harbor	LA	S	680170	489318	713258	627582	0.371	232.663	234.770	125.500	61.640	2.800	174.600
72868	4685	NPD	NPP	Lake River	WA	S	4041	3858	5216	4372	0.800	3.497	0.000	0.000	0.000	0.000	0.000
73855	245	NAD	NAP	Leipsic River	DE	S	0	0	10	10	0.100	0.000	0.000	0.000	0.000	0.000	0.000
46018	3716	NCD	NCE	Leland Harbor	MI	S	0	0	0	0	141,794.036	141.794	120.920	194.000	133.720	114.700	109.350
9700	4632	NPD	NPP	Lewis River	WA	S	0	0	0	0	16,879.383	16.879	0.000	0.000	0.000	0.000	0.000
10220	2340	ORD	ORL	Licking River Open Channel	KY	S	0	1126442	0	375481	0.019	7.090	12.310	13.000	14.700	17.000	19.000
74855		SWD	SWG	Little Bay	TX	S	0	0	0	0	21,829.444	21.829	0.000	0.000	0.000	0.000	0.000
189		LMD	LMN	Little Caillou Bayou	LA	S	0	0	401387	401387	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73591	412	NAD	NAB	Little Creek, Kent Island	MD	S	317	332	505	385	0.003	0.000	0.000	0.000	0.000	0.000	0.000
509	136	NED	NED	Little Harbor	NH	S	0	0	0	0	4,806.667	4.807	0.000	0.000	0.000	0.000	86.520
71536	2346	ORD	ORH	Little Kanawha River	WV	S	0	0	173840	173840	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73779	610	NAD	NAO	Little Machipongo River	VA	S	100	261	0	120	238.780	28.733	0.000	0.000	0.000	0.000	0.000
562	301	NED	NED	Little Narragansett Bay	RI	S	0	0	0	0	172.944	0.173	0.000	0.700	0.000	0.000	0.000
9900	350	NAD	NAN	Little Neck Bay	NY	S	0	6843	0	2281	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73856	243	NAD	NAP	Little River	DE	S	0	0	0	0	1,572.628	1.573	0.000	0.000	0.000	0.000	0.000
9980	451	NAD	NAB	Little Wicomico River	VA	S	0	0	0	0	113,316.366	113.316	206.870	83.400	0.700	40.300	256.440
10020	848	SAD	SAW	Lockwoods Folly River	NC	S	10588	5050	366	5335	103.839	553.948	584.310	541.100	663.450	2,143.900	688.100
10040	218	NAD	NAN	Long Island Intracoastal Waterway	NY	S	0	1632	848	827	737.081	609.321	0.220	245.000	669.820	2,793.200	208.420
23100	2216	SAD	SAJ	Longboat Pass	FL	S	4083	4183	0	2755	58.273	160.561	162.030	824.100	0.430	28.000	77.570
588	466	NAD	NAB	Lower Machedoc Creek	VA	S	2474	2378	1333	2062	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73592	440	NAD	NAB	Lower Thorofare, Deal Island	MD	S	407	25	11	148	296.094	43.723	0.000	0.000	0.000	0.000	0.000
73593	708	NAD	NAB	Lowes Wharf	MD	S	0	0	0	0	19,370.672	19.371	0.000	0.000	0.000	0.000	0.000
354	2	NED	NED	Lubec Channel	ME	S	0	40	230401	76814	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80731	870	SAD	SAC	Lynches River	SC	S	0	0	0	0	5,382.767	5.383	0.000	0.000	0.000	0.000	0.000
10310	675	NAD	NAO	Lynnhaven Inlet	VA	S	2425	61	1046	1177	204.223	240.439	87.020	726.700	0.000	80.700	681.840
66666	3622	NCD	NCE	Mackinac City Harbor	MI	S	173896	101116	0	91671	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74211	3624	NCD	NCE	Mackinac Harbor	MI	S	128436	161688	10887	100337	1.017	102.009	0.000	0.000	0.000	0.000	0.000
87062		NAD	NAB	Madison Bay	MD	S	0	0	0	0	1,170.400	1.170	0.000				
87168	2267	LMD	LMK	Madison Parish Port	LA	S	162167	140157	257134	186486	0.241	44.936	22.590	0.000	4.000	8.500	0.000
41005	343	NAD	NAN	Mamaroneck Harbor	NY	S	0	0	0	0	43,510.453	43.510	728.500	77.900	50.000	0.000	0.000
10450	287	NAD	NAP	Manasquan River	NJ	S	439	772	482	564	258.012	145.605	0.000	197.400	34.900	72.700	336.500
22770	2118	SAD	SAJ	Manatee River	FL	S	6362	4077	0	3480	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87401		POD	POD	Manele Small Boat Harbor	HI	S	0	0	0	0	47,171.351	47.171	0.000	0.000	0.000	0.000	0.000
73594	441	NAD	NAB	Manokin River	MD	S	1249	1572	964	1262	0.001	0.000	0.000	0.000	0.000	0.000	0.000
10580	767	SAD	SAW	Manteo (Shallowbag) bay	NC	S	30529	33093	3675	22432	187.484	4,205.707	4,746.170	8,210.300	6,100.400	6,437.400	2,063.400
10410	378	NAD	NAN	Matawan Creek	NJ	S	0	0	0	0	8,836.272	8.836	89.290	30.900	0.000	0.000	0.000
356	113	NED	NED	Matinicus Harbor	ME	S	34	63	220	106	0.009	0.000	0.000	0.000	0.000	0.000	0.000

SHALLOW-DRAFT NAVIGATION PROJECTS:

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PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M	92 O&M	93 O&M	94 O&M
													(1,000'S DOLLARS)				
41082	523	NAD	NAN	Mattituck Harbor	NY	S	0	0	0	0	51,784.360	51.784	326.160	27.900	0.000	65.000	69.200
73841	268	NAD	NAP	Maurice River	NJ	S	874	381	517	591	7.611	4.496	0.000	0.000	0.000	0.000	52.200
74610	805	NAD	NAO	Meherrin River	NC	S	0	0	0	0	453.289	0.453	0.000	0.000	0.000	0.000	0.000
22250	2106	SAD	SAJ	Melbourne Harbor	FL	S	2156	2952	1894	2334	19.702	45.983	0.000	0.000	0.000	0.000	0.000
427	44	NED	NED	Menemsha Creek, Martha's Vineyard	MA	S	9	5	68	27	424.297	11.597	0.000	0.000	0.000	0.000	0.000
243	318	NED	NED	Mianus River	CT	S	0	0	0	0	32,600.322	32.600	0.000	0.000	0.000	0.000	0.000
73595	402	NAD	NAB	Middle River, Dark Head Creek	MD	S	230		800	343	0.003	0.000	0.000	0.000	0.000	0.000	0.000
244	310	NED	NED	Milford Harbor	CT	S	0	0	0	0	56,432.569	56.433	0.000	0.000	0.000	0.000	0.000
589	643	NAD	NAO	Milford Haven	VA	S	189	190	187	189	0.005	0.000	0.000	0.000	0.000	0.000	0.000
591	640	NAD	NAO	Mill Creek	VA	S	44	7	7	19	0.052	0.000	0.000	0.000	0.000	0.000	0.000
88826		NCD	NCR	Mill Creek and South Slough	IL	S	0	0	0	0	1,701.976	1.702	1.050	2.700	8.000	0.400	4.500
11250	342	NAD	NAN	Milton Harbor	NY	S	0	0	0	0	88,159.667	88.160	31.250	0.000	39.500	1,110.000	0.030
11310	2324	NCD	NCS	Minnesota River	MN	S	5449046	3194407	4117783	4253745	0.033	142.092	11.460	24.300	10.840	21.600	20.830
73857	240	NAD	NAP	Mispillion River	DE	S	0	80	70	50	4,641.368	232.068	0.010	97.500	151.780	469.700	1,825.180
592	725	NAD	NAB	Monroe Bay Creek	VA	S	12	2	0	5	5,177.325	24.161	0.000	0.000	0.000	54.000	41.100
11790	4325	SPD	SPN	Monterey Harbor	CA	S	8836	20638	0	9825	7.327	71.990	0.000	0.000	0.000	829.700	538.300
493	2009	LMD	LMK	Mouth of Yazoo River	MS	S	2501678	2264461	2717256	2494465	0.010	24.388	107.850	42.000	0.600	45.000	0.000
99984		LMD	LMN	MR&T-Baton Rouge Harbor	LA	S	0	0	0	0	248,208.944	248.209	206.000	170.000	21.000	0.000	230.000
99982	2271	LMD	LMK	MR&T-Greenville Harbor	MS	S	0	2723546	2429742	1717763	0.173	296.757	159.000	216.000	94.000	0.000	269.000
99983	2276	LMD	LMK	MR&T-Vicksburg Harbor	MS	S	4096105	4384220	5107967	4529431	0.036	162.752	137.000	157.000	107.000	0.000	217.000
40025	1234	NAD	NAB	Muddy Hook/Tyler Coves	MD	S	0	0	0	0	34,463.299	34.463	240.270	10.200	0.090	0.000	0.000
593	631	NAD	NAO	Mulberry Creek	VA	S	69	32	19	40	0.025	0.000	0.000	0.000	0.000	0.000	0.000
593	631	NAD	NAO	Mulberry Creek	VA	S	0	0	19	19	0.053	0.000	0.000	0.000	0.000	0.000	0.000
12020	241	NAD	NAP	Murderkill River	DE	S	0	0	0	0	104,889.533	104.890	20.080	329.000	33.050	31.100	54.710
88828		NCD	NCR	Muscatine Harbor	IA	S	0	0	0	0	13,930.668	13.931	0.000	0.000	0.000	0.000	160.600
72756	4828	NPD	NPA	Naknek River	AK	S	64819	82321	61344	69495	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73784	665	NAD	NAO	Nansemond River	VA	S	130			43	771.992	33.453	0.000	0.000	0.000	0.000	322.420
73564		NAD	NAB	Nanticoke River At Nanticoke	MD	S	0	0	0	26	0.039	0.000	0.000	0.000	0.000	0.000	0.000
55690	433	NAD	NAB	Nanticoke River & Tributaries	MD	S	0	0	1804	601	0.909	0.547	0.000	0.000	0.000	0.000	0.000
73565	434	NAD	NAB	Nanticoke River at Bivalve	MD	S	0	0	0	0	735.133	0.735	0.000	0.000	0.000	0.000	0.000
73549	432	NAD	NAB	Nanticoke River Northwest Fork	MD	S	339257	466493	528749	444833	0.599	266.536	407.730	0.000	4,470.000	0.000	50.440
12200	207	NAD	NAN	Narrows of Lake Champlain	NY	S	86711	10651	3379	33580	1.301	43.686	64.850	40.000	40.020	37.400	45.520
67314	4706	NPD	NPS	Neah Bay	WA	S	502		3141	1214	114.511	139.055	0.000	0.000	0.000	0.000	0.000
73566	459	NAD	NAB	Neale Sound	MD	S	601		225	275	159.348	43.874	111.370	443.300	0.240	0.200	0.200
82121	4691	NPD	NPP	Nehalem Bay	OR	S	0	0	0	0	752.544	0.753	0.000	0.000	0.000	0.000	0.000
74612	831	SAD	SAW	Neuse River	NC	S	105880	100756	121768	109468	0.001	0.119	0.000	0.000	0.000	0.000	0.000
1020	3744	NCD	NCE	New Buffalo Harbor	MI	S	0	0	0	0	179,082.416	179.082	140.990	357.200	182.350	12.500	534.020
8190	5000	NAD	NAP	New Jersey Intracoastal Waterway	NJ	S	89312	45600	40907	58606	31.459	1,843.677	26.380	2,448.400	3,213.970	1,713.000	2,358.790

SHALLOW-DRAFT NAVIGATION PROJECTS:

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FWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M	92 O&M	93 O&M	94 O&M
													(1,000'S DOLLARS)				
74483	2215	SAD	SAJ	New Pass Sarasota	FL	S	31	116	50	66	4,487.459	294.676	1,062.380	182.800	0.020	54.400	305.800
80760	2019	SAD	SAJ	New River	FL	S	0	0	1	1	1.000	0.000	0.000	0.000	0.000	0.000	0.000
41031	346	NAD	NAN	New Rochelle Harbor	NY	S	0	0	0	0	3,991.756	3.992	19.950	40.000	0.000	0.000	0.000
6840	206	NAD	NAN	New York St Barge Canal	NY	S	0	0	0	292	0.003	0.000	0.000	0.000	0.000	0.000	0.000
39018	139	NED	NED	Newburyport Harbor	MA	S	0	0	0	0	194,488.751	194.489	293.480	567.400	1.010	419.100	0.690
21640	5736	NAD	NAO	Newport News Creek	VA	S	2210	55	42	769	12.442	9.568	0.000	0.000	196.250	0.100	0.000
74081	3224	NCD	NCB	Niagara River	NY	S	669784	569561	286169	508505	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12640	4841	NPD	NPA	Ninilchik Harbor	AK	S	0	32	48	27	8,614.618	229.723	159.540	1.010	159.600	192.100	191.330
72742	4968	NPD	NPA	Nome Harbor	AK	S	24023	36770	74902	45232	11.879	537.324	158.880	2.760	241.890	330.900	182.260
594	464	NAD	NAB	Nomini Bay and Creek	VA	S	292	800	0	364	2.109	0.768	0.000	0.000	0.000	0.000	0.000
72430	1273	NED	NED	North Cove	CT	S	0	0	0	0	75,042.288	75.042	0.000	178.600	412.860	343.600	25.100
363	106	NED	NED	Northeast Harbor	ME	S	45	180	4587	1604	0.001	0.000	0.000	0.000	0.000	0.000	0.000
74614	844	SAD	SAW	Northeast Cape Fear River	NC	S	613269	602846	638409	618175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27009	404	NAD	NAB	Northeast River	MD	S	10	0	0	3	16,238.400	54.128	0.000	0.000		58.300	55.000
73743	521	NAD	NAN	Northport Harbor	NY	S	0	10	4373	1461	2.386	3.487	0.000	50.000	0.000	0.000	0.000
21770	314	NED	NED	Norwalk Harbor	CT	S	540740	474647	446483	487290	0.330	160.632	0.000	0.000	0.000	0.000	0.000
73789		NAD	NAO	Nottoway River	VA	S	0	0	0	0	1,669.649	1.670	0.000	12.800	0.000	0.000	0.000
12940	4394	SPD	SPN	Noyo River Harbor	CA	S	5651			1884	234.517	441.752	496.740	228.600	24.860	470.400	67.800
12980		NCD	NCB	Oak Orchard Harbor	NY	S	0	0	0	0	23,835.712	23.836	0.000	140.700	35.840	1.000	0.000
73790	608	NAD	NAO	Occohannock Creek	VA	S	102	93	85	93	0.011	0.000	0.000	0.000	0.000	0.000	0.000
595	454	NAD	NAB	Occoquan Creek	VA	S	265226	173940	150917	196694	0.001	0.179	0.000	0.000	0.000	0.000	0.000
73567	450	NAD	NAB	Ocean City Harbor & Inlet & Sinepuxent Bay	MD	S	11972	10722	9869	10854	46.017	499.486	379.280	169.300	43.910	76.900	65.450
529	829	SAD	SAW	Ocracoke Inlet	NC	S	11895	15047	229	9057	2.945	26.669	5.670	3.100	0.000	0.000	0.000
13240	2048	SAD	SAJ	Okeechobee Waterway	FL	S	752796	832118	659751	748222	2.810	2,102.395	1,750.200	1,715.000	2,974.900	2,495.900	4,983.700
13250	2102	SAD	SAJ	Oklawaha River	FL	S	0	0	0	0	42,955.450	42.955	28.200	39.100	36.430	52.700	66.780
44066	3104	NCD	NCB	Olcott Harbor	NY	S	0	0	0	0	7,631.312	7.631	0.000	14.900	0.110	0.000	0.000
65017	4933	NPD	NPA	Old Harbor, Kodiak Island	AK	S	1699	504	255	819	13.988	11.461	0.000	0.000	0.000	0.000	206.300
73791	606	NAD	NAO	Onancock River	VA	S	65743	100265	99977	88662	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13430		LMD	LMM	Osceola Harbor	AR	S	0	0	0	0	540,162.498	540.162	345.770	12.800	424.060	321.000	271.190
13510	612	NAD	NAO	Oyster Channel	VA	S	18			6	3,418.022	20.508	0.000	361.200	0.000	0.000	0.000
73793	666	NAD	NAO	Pagan River	VA	S	12	8	0	7	1,118.583	7.457	0.000	0.000	0.000	0.000	134.230
74615	825	SAD	SAW	Pamlico and Tar Rivers	NC	S	1698806	1404711	1532952	1545490	0.011	16.641	57.500	21.000	24.500	81.000	0.000
73794	649	NAD	NAO	Pamunkey River	VA	S	0	0	547803	547803	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7510	2181	SAD	SAM	Panacea Harbor	FL	S	0	0	0	0	3,989.748	3.990	9.060	0.100	0.000	0.500	0.000
73568	487	NAD	NAB	Parish Creek	MD	S	0	0	0	0	30,471.192	30.471	0.000	0.000	0.000	0.000	0.000
76011	678	NAD	NAO	Parker Creek	VA	S	0	0	0	0	54,467.802	54.468	0.000	476.200	73.100	100.000	0.000
596	627	NAD	NAO	Parrotts Creek	VA	S	0	29	17	15	0.065	0.000	0.000	0.000	0.000	0.000	0.000
10025	2202	SAD	SAM	Pascagoula River	MS	S	7465	3134	254	3618	0.000	0.000	0.000	0.000	0.000	0.000	0.000

SHALLOW-DRAFT NAVIGATION PROJECTS:

ACTUAL O&M EXPENDITURES(1990-1994); WATERBORNE COMMERCE(1992-1994);AND AVERGAGE O&M COSTS (1977-1994), AVERAGE TONNAGES (1992-1994) AND O&M COSTS PER TON (TOTAL 733)

PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M (1,000'S DOLLARS)	92 O&M	93 O&M	94 O&M
74564	2207	SAD	SAM	Pass Christian Harbor	MS	S	0	0	0	0	24,144.444	24.144	0.000	0.000	0.000	0.000	197.720
196	2058	LMD	LMN	Pass Manchac	LA	S	56415	72004	51950	60123	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87008	58	NED	NED	Patchogue River	CT	S	0	0	0	0	33,911.856	33.912	0.000	0.000	0.000	0.000	0.000
73569	479	NAD	NAB	Patuxent River	MD	S	86727	227434	53393	122518	0.000	0.000	0.000	0.000	0.000	0.000	0.000
563	52	NED	NED	Pawcatuck River	RI	S	0	0	0	0	18,802.444	18.802	0.000	0.000	0.000	0.000	0.000
73744	530	NAD	NAN	Peconic River	NY	S	0	13	5	6	0.167	0.000	0.000	0.000	0.000	0.000	0.000
72758	4840	NPD	NPA	Pelican Harbor	AK	S	5070	4097	6400	5189	0.208	1.077	0.000	0.000	0.000	0.000	0.000
74819	3791	NCD	NCE	Pensaukee Harbor	WI	S	0	0	0	0	13,388.639	13.389	0.000	0.000	0.000	263.500	0.420
88813		NCD	NCS	Pepin Small Boat Harbor	WI	S	0	0	0	0	1,111.678	1.112		0.000	12.600	9.800	0.000
1048	1286	NAD	NAP	Pepper Creek	DE	S	0	0	0	0	1,141.300	1.141	0.000	0.000	0.000	0.000	0.000
13880	2174	SAD	SAM	Perdido Pass Channel	AL	S	0	0	0	0	406,456.812	406.457	733.500	1.100	989.000	14.300	0.000
74617	807	SAD	SAW	Perquimans River	NC	S	4771			1590	0.001	0.000	0.000	0.000	0.000	0.000	0.000
13940	4370	SPD	SPN	Petaluma River	CA	S	314795	207837	231712	251448	2.558	643.152	1.550	0.900	651.690	410.100	858.070
22390	2011	LMD	LMN	Petit Anse, Tigre, and Carlin Bayous	LA	S	2492692	2320869	2703241	2505601	0.022	55.510	0.000	0.000	0.000	3.000	0.000
73746	511	NAD	NAN	Plattsburgh Harbor	NY	S	0	0	0	0	6,057.778	6.058	0.000	0.000	0.000	0.000	0.000
73570	447	NAD	NAB	Pocomoke River	MD	S	353888	348624	339717	347410	0.318	110.497	438.860	0.000	107.900	59.500	100.200
14220		NCD	NCE	Point Lookout Harbor	MI	S	0	0	0	0	260,314.404	260.314	8.170	0.000	0.000	456.100	37.500
14310	2097	SAD	SAJ	Ponce De Leon Inlet	FL	S	1173	962	0	712	1,621.930	1,154.274	818.950	65.700	40.130	33.700	77.510
74213		NCD	NCE	Port Austin Harbor	MI	S	0	0	0	0	67,216.584	67.217	0.000	3.100	0.520	0.000	0.000
15175		LMV	LMK	Port Bienville	MS	S	0	0	0	0	296.939	0.297	0.000	0.000	0.000	0.000	0.000
73747	340	NAD	NAN	Port Chester Harbor	NY	S	307918	333773	371765	337819	1.110	374.881	5,800.000	0.000	0.000	0.000	278.200
21540	3205	NCD	NCB	Port Clinton Harbor	OH	S	0	0	0	0	32,988.850	32.989	0.000	0.000	0.000	0.500	37.200
80524	4936	NPD	NPA	Port Lions	AK	S	53541	75248	84918	71236	1.401	99.830	0.000	0.000	0.000	0.000	0.000
46039	3634	NCD	NCE	Port Sanilac Harbor	MI	S	0	0	0	0	64,061.136	64.061	9.290	174.200	211.590	13.800	0.850
72895	4710	NPD	NPS	Port Townsend Harbor	WA	S	325356	201393	402071	309607	0.020	6.224	5.800	7.000	8.580	0.000	0.000
10221		ORD	ORH	Portsmouth Harbor	OH	S	0	0	0	0	3,881.617	3.882	0.000	67.000	0.450	0.000	1.000
598	1240	NAD	NAB	Potomac River at Mount Vernon	VA	S	0	0	0	0	17,515.317	17.515	0.000	0.000	0.000	37.100	2.850
437	172	NED	NED	Provincetown Harbor	MA	S	0	0	0	0	49,041.278	49.041	0.000	0.000	0.000	0.000	0.000
8185	3207	NCD	NCB	Put-In-Bay Harbor	OH	S	1082	4667	3531	3093	0.000	0.000	0.000	0.000	0.000	0.000	0.000
795	296	NAD	NAO	Queens Creek	VA	S	0	0	0	0	22,160.547	22.161	57.830	186.200	0.000	0.000	0.000
73573	704	NAD	NAB	Queenstown Harbor	MD	S	0	0	0	0	18,720.933	18.721	0.000	0.000	0.000	0.000	0.000
14760	4738	NPD	NPS	Quillayute River	WA	S	0	0	15028	5009	119.643	599.330	0.400	524.600	0.330	520.300	44.450
14770	609	NAD	NAO	Quinby Creek	VA	S	44	16	0	20	5,381.014	107.620	1.370	340.800	0.000	36.400	14.900
73892	262	NAD	NAP	Raccoon Creek	NJ	S	0	0	629	210	0.005	0.000	0.000	0.000	0.000	0.000	0.000
14820	3754	NCD	NCE	Racine Harbor	WI	S	7900			2633	26.070	68.652	0.000	0.000	0.000	0.000	0.000
14850	623	NAD	NAO	Rappahannock River	VA	S	208962	278790	332349	273367	0.011	3.032	0.000	0.000	0.000	0.000	0.000
74722	4134	SPD	SPL	Redondo Beach, King Harbor	CA	S	276	12	74	121	2,856.969	344.741	0.000	185.900	985.000	118.600	0.400
73574	446	NAD	NAB	Rhodes Point to Tylerton	MD	S	0	0	0	0	93,201.117	93.201	0.000	0.000	0.000	62.100	157.600

SHALLOW-DRAFT NAVIGATION PROJECTS:

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PW	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M	92 O&M	93 O&M	94 O&M
													(1,000'S DOLLARS)				
302	2100	SAD	SAJ	Rice Creek	FL	S	101739	105400	109275	105471	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22510	813	SAD	SAW	Roanoke River	NC	S	190926	121593	110044	140854	0.089	12.501	0.000	0.000	0.000	0.000	53.600
80238	703	NAD	NAB	Rock Hall Harbor	MD	S	0	0	0	0	2,292.017	2.292	0.000	0.000	0.000	0.000	0.000
11190		NCD	NCR	Rock Island Small Boat Harbor	IL	S	0	0	0	0	11,921.313	11.921	0.000	0.000	45.400	5.600	0.000
72762	4803	NPD	NPA	Rocky Pass In Keku Str	AK	S	75	0	0	25	0.040	0.000	0.000	0.000	0.000	0.000	0.000
44072		NCD	NCB	Rocky River Harbor	OH	S	0	0	0	0	137,248.487	137.248	27.650	270.400	36.750	23.700	22.200
15600	4652	NPD	NPP	Rogue River Harbor at Gold Beach	OR	S	372	157443	268	52694	15.486	816.003	565.740	1,050.000	929.550	1,006.000	1,063.200
15490	768	SAD	SAW	Rollinson Channel	NC	S	240	265	57	187	642.025	120.273	8.410	7.000	186.640	2.900	12.500
73705	503	NAD	NAN	Rondout Harbor	NY	S	16367	23704	3803	14625	21.192	309.928	25.840	0.000	0.000	0.000	0.000
87072	2268	LMD	LMK	Rosedale Harbor	MS	S	506540	537609	606337	550162	0.439	241.620	323.170	299.300	295.740	7.500	379.890
15640	20	NED	NED	Royal River	ME	S	0	0	0	0	39,421.120	39.421	0.000	0.000	0.000	0.000	0.000
87455	1344	NAD	NAO	Rudee Inlet	VA	S	0	0	0	96	0.010	0.000	0.000	0.000	0.000	0.000	0.000
513	138	NED	NED	Rye Harbor	NH	S	0	0	0	0	27,973.659	27.974	437.810	3.700	0.600	0.000	0.000
73935	3114	NCD	NCB	Sackets Harbor	NY	S	0	32	180	71	24.132	1.705	0.000	0.000	0.000	0.000	0.000
15860	24	NED	NED	Saco River	ME	S	0	0	0	0	102,164.239	102.164	0.200	0.000	412.490	322.400	256.700
8187	8220	SPD	SPK	Sacramento River	CA	S	24082	15000	29000	22694	19.411	440.524	111.700	433.300	490.200	487.200	687.410
74709	4390	SPD	SPN	San Rafael Creek	CA	S	59382			19794	15.331	303.464	1.050	376.600	395.630	476.600	115.600
21880	373	NAD	NAN	Sandy Hook Bay	NJ	S	0	17749	0	5916	42.703	252.644	0.000	100.000	0.040	0.000	0.000
73667	374	NAD	NAN	Sandy Hook Bay at Leonardo	NJ	S	0	0	0	0	33,483.944	33.484	61.250	540.400	10.100	0.000	0.000
74475	856	SAD	SAC	Santee River	SC	S	283	541	325	383	0.003	0.000	0.000	0.000	0.000	0.000	0.000
81247	885	SAD	SAS	Satilla River	GA	S	0	2	0	1	0.942	0.001	0.000	0.000	0.000	0.000	0.000
16390	3731	NCD	NCE	Saugatuck Harbor	MI	S	0	0	0	0	109,145.200	109.145	88.900	4.300	156.700	111.800	69.800
73709	504	NAD	NAN	Saugerties Harbor	NY	S	0	0	0	0	15,581.924	15.582	0.000	0.000	0.000	0.000	0.000
45014		NCD	NCR	Savanna Small Boat Harbor	IL	S	0	0	0	0	5,254.851	5.255	0.000	0.000	42.400	0.000	0.000
16450	877	SAD	SAS	Savannah River Below Augusta	GA	S	104	368	55	176	4,036.523	709.083	216.890	85.900	67.000	138.600	200.010
16500	3866	NCD	NCE	Saxon Harbor	WI	S	0	0	0	0	26,884.550	26.885	107.790	2.800	0.000	0.000	78.300
444	167	NED	NED	Scituate Harbor	MA	S	159	99	0	86	0.012	0.000	0.000	0.000	0.000	0.000	0.000
76061	3636	NCD	NCE	Sebewaing	MI	S	0	0	0	0	244,418.162	244.418	1.070	0.000	12.300	4.600	0.080
8193	1203	NED	NED	Sesuit Harbor	ME	S	0	0	0	0	29,435.962	29.436	0.000	0.000	118.600	0.000	201.600
74622	849	SAD	SAW	Shallotte River	NC	S	1631	914	244	930	25.572	23.773	0.000	0.000	9.800	9.400	0.050
41007	228	NAD	NAN	Shark River	NJ	S	0	0	0	0	41,155.490	41.155	3.090	90.000	0.000	49.800	0.000
73710	366	NAD	NAN	Sheepshead Bay	NY	S	0	3219	0	1073	2.942	3.157	58.710	0.000	0.000	0.000	0.000
73644	216	NAD	NAN	Shinnecock Inlet	NY	S	0	0	0	0	88,078.439	88.078	0.000	0.000	545.600	784.400	82.150
41035	375	NAD	NAN	Shoal Harbor Compton Creek	NJ	S	30	700	40	257	478.107	122.714	595.740	0.000	0.000	0.000	0.000
16780	538	NAD	NAN	Shrewsbury River	NJ	S	0	0	0	0	282,816.069	282.816	2,145.930	1,412.800	300.000	0.000	23.800
16800	762	SAD	SAW	Silver Lake Harbor	NC	S	0	0	0	0	444,145.621	444.146	466.460	416.000	681.000	10.600	312.400
72898	4742	NPD	NPS	Skagit River	WA	S	965	10	20	332	0.003	0.000	0.000	0.000	0.000	0.000	0.000
16910	4683	NPD	NPP	Skamokawa Creek	WA	S	0	0	0	0	18,961.603	18.962	20.920	0.500	0.000	0.000	0.000

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PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M	92 O&M	93 O&M	94 O&M
													(1,000'S DOLLARS)				
72930	4684	NPD	NPP	Skamokawa Slough	WA	S	0	12	5	6	0.176	0.000	0.000	0.000	0.000	0.000	0.000
27010	427	NAD	NAB	Slaughter Creek	MD	S	0	0	0	0	35,832.463	35.832	0.000	0.000	0.000	43.000	14.000
73577	475	NAD	NAB	Smith Creek	MD	S	0	0	0	0	213.800	0.214	0.000	0.000	0.000	0.000	0.000
74623	846	SAD	SAW	Smiths Creek	NC	S	0	0	0	0	738.840	0.739	0.000	0.000	0.000	0.000	0.000
74624	834	SAD	SAW	Smiths Creek (Pamlico County)	NC	S	6774	6430	2276	5160	0.033	0.169	0.000	0.000	0.000	0.000	0.000
73859	246	NAD	NAP	Smyrna River	DE	S	19	42	34	32	0.032	0.000	0.000	0.000	0.000	0.000	0.000
74625	826	SAD	SAW	South River	NC	S	405	214	1	207	0.005	0.000	0.000	0.000	0.000	0.000	0.000
75027	2159	SAD	SAJ	St Augustine Harbor	FL	S	2167	1165	4	1112	204.094	226.953	0.000	52.500	1.390	12.100	108.040
394	461	NAD	NAB	St Catherines Sound	MD	S	0	0	0	0	41,669.200	41.669	0.000	0.000	0.000	0.000	0.000
17310	2323	NCD	NCS	St Croix River	WI	S	10616	4314	10760	8563	4.950	42.387	0.000	5.300	0.000	0.000	0.000
74219	3702	NCD	NCE	St James Harbor	MI	S	5013	26566	5467	12349	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73579	481	NAD	NAB	St Jerome Creek	MD	S	0	0	0	0	35,835.653	35.836	19.840	256.400	1.430	0.000	0.000
74387	2018	SAD	SAJ	St Johns River - Jacksonville to Lake Harney	FL	S	823229	1220283	1067915	1037142	0.039	40.936	0.000	0.000	0.000	0.000	0.000
58300	3734	NCD	NCE	St Joseph River	MI	S	0	0	0	0	44,541.667	44.542	0.000	0.000	0.000	0.000	0.000
17370	2107	SAD	SAJ	St Lucie Inlet	FL	S	1153	1182	55	797	639.210	509.237	263.130	703.000	102.750	838.500	450.650
74542	2180	SAD	SAM	St Marks River	FL	S	523407	551533	634898	569946	0.000	0.000	0.000	0.000	0.000	0.000	0.000
44444	294	NAD	NAB	St Michaels Harbor	MD	S	829	754	500	694	0.413	0.286	0.000	0.000	0.000	0.000	0.000
73596	462	NAD	NAB	St Patricks Creek	MD	S	795	92	256	381	22.101	8.420	0.000	0.000	0.000	0.000	0.000
88807		NCD	NCS	St Paul Small Boat Harbor	MN	S	0	0	0	0	12,043.128	12.043	15.000	0.000	100.800	0.300	78.500
55555	497	NAD	NAB	St Peters Creek	MD	S	0	0	0	0	364.444	0.364	0.000	0.000	0.000	0.000	0.000
74400	2143	SAD	SAJ	St Thomas Harbor	VI	S	447119	491438	562236	500264	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42007	604	NAD	NAO	Starlings Creek	VA	S	25	52	14	30	0.033	0.000	0.000	0.000	0.000	0.000	0.000
74508	2132	SAD	SAJ	Steinhatchee River	FL	S	1157	1149	0	769	1.106	0.850	0.000	0.000	0.000	0.000	15.300
17500	4874	NPD	NPA	Stikine River	AK	S	9955	22371	17850	16725	0.410	6.862	16.890	3.000	0.140	0.000	0.000
100005	109	NED	NED	Stonington Harbor	ME	S	8314	7684	261	5420	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76064	85	NED	NED	Stony Creek, Branford	CT	S	0	0	0	0	20,989.133	20.989	0.000	0.000	0.000	0.000	2.800
74626	819	SAD	SAW	Stumpy Point Bay	NC	S	5937	6348	203	4163	12.517	52.103	0.000	5.800	392.900	0.000	0.000
87433		NCD	NCB	Sturgeon Point	NY	S	0	0	0	0	2,118.283	2.118	1.900	5.400	12.600	9.100	11.400
17730	4210	SPD	SPN	Suisun Channel	CA	S	12672		1314	4662	19.003	88.590	470.440	481.700	6.200	0.000	0.000
17870	4728	NPD	NPS	Swinomish Channel	WA	S	816114	550621	374434	580390	0.496	287.703	81.220	529.400	120.200	30.000	117.750
27650	605	NAD	NAO	Tangier Channel	VA	S	1792	2087	2276	2052	97.744	200.539	0.000	517.100	38.700	23.000	7.840
17970		LMD	LMN	Tangipohoa River	LA	S	0	0	0	0	85,311.040	85.311	0.000	0.000	0.000	213.500	17.400
41083	501	NAD	NAN	Tarrytown Harbor	NY	S	627011	302138	339204	422784	0.112	47.220	0.000	34.800	220.200	850.000	155.000
87036		POD	POD	Tau Harbor	AS	S	0	0	0	0	26,277.556	26.278	0.000	39.700	441.900	0.000	0.000
174	2232	LMD	LMN	Tchefuncte River and Bogue Falia	LA	S	26784	27775	8603	21054	1.354	28.514	0.000	0.000	0.000	0.000	0.000
3350	877	SAD	SAS	Thurmond Dam and Reservoir	GA	S	0	0	0	0	228,781.519	228.782	54.000	185.400	275.800	200.000	208.700
40108	710	NAD	NAB	Tilghman Island Harbor	MD	S	4909	4	1960	2291	11.518	26.389	0.000	0.000	0.000	0.000	0.000
73598	420	NAD	NAB	Town Creek	MD	S	802	336	0	379	70.788	26.852	0.000	0.000	0.000	529.400	0.000

SHALLOW-DRAFT NAVIGATION PROJECTS:

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PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M (1,000'S DOLLARS)	92 O&M	93 O&M	94 O&M
1		SAD	SAC	Town Creek	SC	S	0	0	0	0	600,824.940	600.825	354.800	622.600	436.370	0.000	499.230
73600	419	NAD	NAB	Tred Avon River	MD	S	195534	244395	282719	240883	0.245	58.991	0.000	0.000	0.000	0.000	66.810
74629	832	SAD	SAW	Trent River	NC	S	200	1122	0	441	0.002	0.000	0.000	0.000	0.000	0.000	0.000
18510	2400	SWD	SWG	Trinity River	TX	S	2800			933	790.258	737.574	1,637.930	639.100	487.860	55.300	1,648.690
73601	424	NAD	NAB	Tuckahoe River	MD	S	0	0	0	0	1,353.450	1.353	0.000	0.000	0.000	0.000	0.000
18580	290	NAD	NAP	Tuckerton Creek	NJ	S	0	0	0	0	1,560.400	1.560	0.000	0.000	0.000	0.000	0.000
73602	448	NAD	NAB	Twitch Cove & Big Thorofare River	MD	S	640	320	7658	2873	53.293	153.092	0.000	0.000	812.540	48.700	26.300
76107	679	NAD	NAO	Tylers Beach	VA	S	0	0	0	0	47,982.977	47.983	0.000	159.700	191.810	51.000	0.000
73604	439	NAD	NAB	Upper Thorofare, Deal Island	MD	S	1768	42120	6883	16924	2.736	46.297	0.000	0.000	0.000	0.000	0.000
74888	2500	SWD	SWL	Upper White River	AR	S	18300	17400	13300	16333	0.000	0.000	0.000	0.000	0.000	0.000	0.000
602	634	NAD	NAO	Urbanna Creek	VA	S	13762	17553	22343	17886	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72849		NPD	NPA	Valdez Harbor	AK	S	0	0	0	0	3,713.739	3.714	0.000	0.000	0.000	0.000	0.000
44003	3215	NCD	NCB	Vermillion Harbor	OH	S	0	0	0	0	124,672.773	124.673	0.000	302.900	68.290	1.800	0.730
19150	1335	SAD	SAC	Village Creek	SC	S	580	411	108	366	2.316	0.848	0.000	0.000	0.000	0.000	0.000
74002	852	SAD	SAC	Waccamaw River	SC	S	9	6	2	6	95.618	0.542	0.000	0.000	0.000	0.000	0.000
73328	4449	POD	POD	Walanae Boat Harbor	HI	S	0	0	0	0	2,371.760	2.372	5.260	0.000	7.000	0.000	0.000
451	174	NED	NED	Wareham Harbor	MA	S	20	31	0	17	0.059	0.000	0.000	0.000	0.000	0.000	0.000
48011	3944	NCD	NCS	Warroad Harbor	MN	S	0	0	0	0	36,908.444	36.908	0.000	0.000	0.000	70.400	281.500
74235		NCD	NCR	Warsaw Small Boat Harbor	IL	S	0	0	0	0	5,402.874	5.403	71.930	26.900	0.150	0.000	0.000
73605	425	NAD	NAB	Warwick River	MD	S	703	208	0	304	13.864	4.210	0.000	0.000	0.000	0.000	0.000
202	2072	LMD	LMN	Waterway from Empire to the Gulf	LA	S	663716	853513	685417	734215	0.082	59.964	18.660	7.600	428.390	2.900	1.000
8100	236	NAD	NAP	Waterway from Indian River to Rehoboth	DE	S	0	0	0	0	16,622.252	16.622	0.000	25.800	0.000	0.000	0.000
452	173	NED	NED	Wellfleet Harbor	MA	S	0	0	0	0	50,370.872	50.371	0.000	0.000	0.000	0.000	31.890
39023	132	NED	NED	Wells Harbor	ME	S	0	0	0	0	21,889.473	21.889	58.540	54.800	3.050	0.000	0.000
74025		NCD	NCB	West Harbor	OH	S	0	0	0	0	85,428.929	85.429	17.450	56.100	82.000	127.000	273.030
41003	352	NAD	NAN	Westchester Creek	NY	S	254946	297088	227112	259715	1.019	264.780	82.620	1,075.400	180.010	0.000	0.000
256	316	NED	NED	Westcott Cove	CT	S	0	0	0	0	11,862.511	11.863	0.000	0.000	0.000	0.000	0.000
72823	46	NED	NED	Westport River	MA	S	26	7	13	15	0.065	0.000	0.000	0.000	0.000	0.000	0.000
19850	3840	NCD	NCE	Whitefish Point Harbor	MI	S	0	0	0	0	14,068.389	14.068	135.850	13.600	0.000	0.000	0.000
605	635	NAD	NAO	Whitings Creek, Middlesex County	VA	S	0	0	0	0	24,780.062	24.780	167.900	0.100	0.000	0.000	218.800
73606	437	NAD	NAB	Wicomico River	MD	S	964466	1043520	1140910	1049632	0.572	600.202	55.620	76.300	156.330	596.000	617.130
72690	4645	NPD	NPP	Willamette R above Prtlnd & Ymh	OR	S	0	0	1481273	1481273	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73801	669	NAD	NAO	Willoughby Channel	VA	S	8	15	16	13	1,501.880	19.524	0.000	0.000	0.000	0.000	351.440
73938	3119	NCD	NCB	Wilson Harbor	NY	S	0	0	0	0	27,275.219	27.275	0.000	115.500	27.880	2.600	0.000

SHALLOW-DRAFT NAVIGATION PROJECTS:

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PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M (1,000'S DOLLARS)	92 O&M	93 O&M	94 O&M
~~88817~~		~~NCD~~	~~NCS~~	~~Winona Commercial Harbor~~	~~MN~~	~~S~~	~~0~~	~~0~~	~~0~~	~~0~~	~~1,357.778~~	~~1.358~~	~~0.000~~				
88816		NCD	NCS	Winona Small Boat Harbor	MN	S	0	0	0	0	1,084.722	1.085		0.000	0.000	15.000	0.000
73802	734	NAD	NAO	Winter Harbor	VA	S	5	10	9	8	2,971.692	23.774	0.000	104.800	0.000	0.000	0.000
74393	2128	SAD	SAJ	Withlacoochie River	FL	S	0	162594	385730	182775	0.009	1.573	0.000	0.000	0.000	3.800	24.850
20160	2206	SAD	SAM	Wolf and Jordan Rivers	MS	S	0	0	0	0	78,022.611	78.023	0.000	0.000	0.000	0.000	0.000
20150	2292	LMD	LMM	Wolf River Harbor	TN	S	1464253	1697204	1477535	1546331	0.391	605.053	312.150	344.100	219.710	290.800	233.890
391	130	NED	NED	Wood Island Harbor	ME	S	0	0	0	0	29,243.416	29.243	0.010	10.100	0.000	0.000	0.000
457	180	NED	NED	Woods Hole Channel	MA	S	300618	363487	161256	275120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21500	4802	NPD	NPA	Wrangell Harbor	AK	S	324898	690614	564805	526772	0.061	32.149	61.040	30.700	0.000	41.300	263.890
87165	820	SAD	SAW	Wrights Creek	NC	S	5022	2217	1	2413	7.264	17.531	0.000	0.000	0.000	0.000	0.000
74632	837	SAD	SAW	WW connecting Pamlico S. & Beaufort Harbor	NC	S	27259	19218	5471	17316	11.068	191.660	2.640	4.200	486.500	0.000	35.100
74637	771	SAD	SAW	WW connecting Swanquarter Bay & Deep Bay	NC	S	1039	655	77	590	32.047	18.918	0.000	0.000	0.000	0.000	0.000
188	2073	LMD	LMN	WW from Inland Waterway to Bayou DuLac	LA	S	915673	414083	518435	616064	0.155	95.339	0.000	0.000	0.000	65.000	425.640
74633	810	SAD	SAW	WW, Norfolk to Sounds of North Carolina	NC	S	2047	5290	2744	3360	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20300	4670	NPD	NPP	Yaquina River	OR	S	0	0	0	0	37,216.706	37.217	0.000	0.000	0.000	0.000	228.600
20350	2010	LMD	LMK	Yazoo River	MS	S	728228	623058	764996	705427	0.039	27.691	4.310	0.000	0.800	6.000	0.000
15410		NCD	NCR	Yellow Bend Port	AR	S	0	0	0	0	11,135.428	11.135	0.000	0.000	100.800	8.100	104.540
73804	654	NAD	NAO	York River to Back Creek	VA	S	708	1224	500	811	0.001	0.000	0.000	0.000	0.000	0.000	0.000
20390	4608	NPD	NPP	Young Bay and River	OR	S	0	0	17480	5827	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20410	8220	SPD	SPK	Yuba River	CA	S	0	0	0	0	540.678	0.541	0.000	0.000	0.000	9.400	1.150
87343	3943	NCD	NCS	Zippel Bay Small Boat Harbor	MN	S	0	0	0	0	1,411.424	1.411	0.000	24.400	0.430	0.100	0.000
73865	293	NAD	NAP	Absecon Creek	NJ	S	0	0	0	0	597.000	0.597	0.000	0.000	0.000	0.000	0.000
578	453	NAD	NAB	Accotink Creek	VA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87132		POD	POD	Agat Small Boat Harbor	GU	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87427		SAD	SAJ	Aguadilla Harbor	PR	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153	2234	LMD	LMN	Amite River and Bayou Manchac	LA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
554	194	NED	NED	Apponaugh Cove	RI	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73827	247	NAD	NAP	Appoquinimink River	DE	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74463	1343	SAD	SAC	Archers Creek	SC	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87674		NED	NED	Aunt Lydia's Cove	MA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
325	11	NED	NED	Bagaduce River	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		NAD	NPP	Bandon Small Boat Basin	OR	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
326	105	NED	NED	Bar Harbor	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
327	108	NED	NED	Bass Harbor Bar	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M (1,000'S DOLLARS)	92 O&M	93 O&M	94 O&M
	2406	SWD	SWG	Bastroup Bayou	TX	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		NCD	NCS	Bay City Harbor	WI	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1060		LMD	LMK	Bayou Bartholomew	LA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156	2241	LMV	LMN	Bayou Grosse Tete	LA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163	2249	LMD	LMN	Bayou Queue de Tortue	LA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100006		NCD	NCE	Beaver Bay	MN	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
504	30	NED	NED	Bellamy River	NH	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87461		NAD	NAO	Bennett Creek, City of Suffolk	VA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74593	845	SAD	SAW	Black River	NC	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12157	2501	SWD	SWL	Black River, AR&MO	MO	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27028	674	NAD	NAO	Blackwater River	VA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74554	2203	SAD	SAM	Bluff Creek	MS	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
329	125	NED	NED	Boothbay Harbor	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73548	435	NAD	NAB	Broad Creek River	DE	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73828	239	NAD	NAP	Broadkill River	DE	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100001		NED	NED	Bucks Harbor, Machiasport	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2210	1023	NED	NED	Bunker Harbor	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2330		LMV	LMK	Caddo Lake	LA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74521		SAD	SAM	Cahaba River	AL	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
332	116	NED	NED	Camden Harbor	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
336	18	NED	NED	Cathance River	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87215		SAD	SAJ	Cedar Island Keaton Beach	FL	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2820	3804	NCD	NCE	Cedar River Harbor	MI	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74599	769	SAD	SAW	Channel from Pamlico Sound to Rodanthe	NC	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73795	5737	NAD	NAO	Channel from Phoebus	VA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73728		NAD	NAN	Channels between N&S Hero Islands	VT	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10307		ORD	ORH	Charlestown River Front Park	WV	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74300	3935	NCD	NCE	Chippewa Harbor (Isle Royale)	MI	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74533	2187	SAD	SAM	Choctawhatchee River	FL	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3340	4620	NPD	NPP	Clatskania River	OR	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
337	100	NED	NED	Cobscook Bay	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
505	29	NED	NED	Cocheco River	NH	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72863	8694	NPD	NPS	Columbia River, Wenatchee to Kettle Falls	WA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74602	1254	SAD	SAW	Contentnea Creek	NC	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73870	258	NAD	NAP	Cooper River	NJ	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73561	410	NAD	NAB	Corsica River	MD	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74487	2103	SAD	SAJ	Courtenay Channel	FL	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16840		NPD	NPA	Crescent Bay Basin, Sitka Hbr.	AK	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M	92 O&M	93 O&M	94 O&M
													(1,000'S DOLLARS)				
152	2246	LMV	LMK	Cypress Bayou	LA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73563	728	NAD	NAB	Cypress Creek	MD	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
351	15	NED	NED	Damariscotta River	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75117	603	NAD	NAO	Deep Creek, Accomack Cty	VA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73786	269	NAD	NAP	Dennis Creek	NJ	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73877	289	NAD	NAP	Double Creek	NJ	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
342	124	NED	NED	East Boothbay Harbor	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73684	345	NAD	NAN	Echo Bay Harbor	NY	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74470	867	SAD	SAC	Edisto River	SC	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73581	405	NAD	NAB	Elk&Little Elk Rivers	MD	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
412	35	NED	NED	Essex River	MA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
506	32	NED	NED	Exeter River	NH	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74577	782	SAD	SAS	Fancy Bluff Creek	GA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	4315	SPD	SPK	Feather River	CA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87327		POD	POD	Fernandina Harbor	FL	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74606	814	SAD	SAW	Fishing Creek	NC	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5910	320	NED	NED	Fivemile River Harbor	CT	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87617		SAD	SAM	Fort Gaines, Dauphin Island	AL	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21050		POD	POD	Fort Madison Small Boat Harbor	IA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74956	1048	NED	NED	Frenchboro Harbor	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74970		NCD	NCB	Geneva-on-the-Lake	OH	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73687	515	NAD	NAN	Glen Cove Harbor	NY	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73729		NAD	NAN	Gordon's Landing, Lake Champlain	VT	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73878	270	NAD	NAP	Goshen Creek	NJ	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179	2236	LMD	LMN	Grand Bayou Pass	LA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6730	3857	NCD	NCE	Grand Traverse Bay Harbor	MI	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73689		NAD	NAN	Great Chazy River	NJ	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73690	382	NAD	NAN	Great Kills Harbor	NY	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
561	82	NED	NED	Greenwich Bay	RI	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
345	19	NED	NED	Harraseeket River	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74318		NCD	NCS	Hastings Harbor	MN	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
346	126	NED	NED	Hendricks River	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
419	165	NED	NED	Hingham Harbor	MA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87514		NAD	NAP	Holmes Creek	FL	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13141		ORD	ORH	Huntington River Front Pk.	WV	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
423	34	NED	NED	Ipswich River	MA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8280	137	NED	NED	Isle of Shoals Harbor	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8280	137	NED	NED	Isle of Shoals Harbor	NH	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

SHALLOW-DRAFT NAVIGATION PROJECTS:

ACTUAL O&M EXPENDITURES(1990-1994); WATERBORNE COMMERCE(1992-1994);AND AVERGAGE O&M COSTS (1977-1994), AVERAGE TONNAGES (1992-1994) AND O&M COSTS PER TON (TOTAL 733)

PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M (1,000'S DOLLARS)	92 O&M	93 O&M	94 O&M
10640		MRD	MRO	Ivy Boat and Canoe Club	IL	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76092	1010	NED	NED	Jonesport Harbor	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8700	4460	POD	POD	Kalaupapa Harbor, Molokai	HI	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	4833	NPD	NPA	Kasilof Harbor	AK	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	1281	NAD	NAO	Kings Creek	VA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9030		NPD	NPS	Kingston Harbor	WA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12222	2115	SAD	SAJ	Kissimmee River	FL	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9280	1324	NED	NED	Lagoon Pond, Martha's Vineyard	MA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
508	31	NED	NED	Lamprey River	NH	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74297		NCD	NCS	Lansing Harbor	IA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9480	344	NAD	NAN	Larchmont Harbor	NY	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87310		POD	POD	Laupahoehoe Harbor	HI	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76556		SAD	SAM	Leaf-Chickasawhay River	MS	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73850	558	NAD	NAP	Little Egg Harbor	NJ	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
425	179	NED	NED	Little Harbor, Woods Hole	MA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27013		NCD	NCB	Little River	NY	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87422		SWD	SWL	Little Rock Port	AR	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
492		LMD	LMK	Little Tallahatchie River	MS	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
587	639	NAD	NAO	Locklies Creek	VA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87494		NCD	NCB	Lorain Small Boat Harbor	OH	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74053	3930	NCD	NCE	Lutsen Harbor	MN	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9290		POD	POD	Maaluea Small Boat Harbor	HI	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
355	4	NED	NED	Machias River	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10350	815	SAD	SAW	Mackay Creek	NC	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
426	155	NED	NED	Malden River	MA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10820		NPD	NPS	Mats Mats Bay	WA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80312	650	NAD	NAO	Mattaponi River	VA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
357	14	NED	NED	Medomak River	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
428	33	NED	NED	Merrimack River	MA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
591	493	NAD	NAB	Mill Creek	MD	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74473	854	SAD	SAC	Mingo Creek	SC	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		LMD	LMS	Moccasin Springs	MO	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11710	4305	SPD	SPK	Mokelumne River	CA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
358	72	NED	NED	Moosabec Bar	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87425		ORD	ORN	Morgan County-Decatur Port	AL	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11840		NAD	NAN	Moriches Inlet	NJ	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74079	3006	NCD	NCB	Morristown Harbor	NY	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22222	1241	NAD	NAB	Nan Cove	MD	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

SHALLOW-DRAFT NAVIGATION PROJECTS:

ACTUAL O&M EXPENDITURES(1990-1994); WATERBORNE COMMERCE(1992-1994);AND AVERGAGE O&M COSTS (1977-1994), AVERAGE TONNAGES (1992-1994) AND O&M COSTS PER TON (TOTAL 733)

PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M	92 O&M	93 O&M	94 O&M
													(1,000'S DOLLARS)				
73782	607	NAD	NAO	Nandua Creek	VA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
359	6	NED	NED	Narraguagus River	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80234	455	NAD	NAB	Neabsco Creek	VA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
33333	1328	NAD	NAB	Neavitt Harbor	MD	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
362	122	NED	NED	New Harbor	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74613	806	SAD	SAW	Newbegun Creek	NC	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21720	83	NED	NED	Niantic Bay & Harbor	CT	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87508		LMD	LMN	North Pass-Pass Manchac, Tangipahoa Parish	LA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74557		SAD	SAM	Noxubee River	MS	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13020	2260	LMD	LMM	Obion River	TN	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87573		SAD	SAJ	Ochlockonee River	FL	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13290	4300	SPD	SPK	Old River	CA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73891	263	NAO	NAP	Oldmans Creek	NJ	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10128		SAD	SAJ	Oostanaula-Coosawatte River	GA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73652		NAD	NAN	Otter Creek	VT	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13490	119	NED	NED	Owls Head Harbor	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74858		SWD	SWG	Oyster Creek	TX	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
300	2122	SAD	SAJ	Ozona	FL	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
564	80	NED	NED	Pawtuxet Cove	RI	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73745	502	NAD	NAN	Peekskill Harbor	NY	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74454	811	SAD	SAW	Pembroke Creek	NC	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13870	134	NED	NED	Pepperell Cove	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74170	3704	NCD	NCE	Petoskey Harbor	MI	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100003		NED	NED	Pig Island Gut	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74385	2124	SAD	SAS	Pithlachascotee River	FL	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
71346	5	NED	NED	Pleasant River	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73748	507	NAD	NAN	Port Henry Harbor	NY	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87440		ORD	ORN	Port of Florence	AL	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73796	739	NAD	NAO	Portsmouth Hbr, VA Channel Nansemond	VA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73571	721	NAD	NAB	Potomac River at Lower Cedar Point	MD	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
565	51	NED	NED	Potowomut River	RI	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14670		NCD	NCB	Pultneyville Harbor	NY	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
519	257	NAD	NAP	Rancocas River	NJ	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	1323	NED	NED	Red Brooke Harbor, Bourne	MA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
371		NED	NED	Richmond Harbor	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
371	129	NED	NED	Richmond's Island Harbor	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73707	214	NAD	NAN	Rouses Point	NY	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73708	531	NAD	NAN	Sag Harbor	NY	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

SHALLOW-DRAFT NAVIGATION PROJECTS:

ACTUAL O&M EXPENDITURES(1990-1994); WATERBORNE COMMERCE(1992-1994);AND AVERGAGE O&M COSTS (1977-1994), AVERAGE TONNAGES (1992-1994) AND O&M COSTS PER TON (TOTAL 733)

PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M	92 O&M	93 O&M	94 O&M
													(1,000'S DOLLARS)				
74474	872	SAD	SAC	Salkehatchie River	SC	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
376		NED	NED	Sasanoa River	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21800	23	NED	NED	Scarboro River	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74621	816	SAD	SAW	Scuppernong River	NC	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	1232	NAD	NAB	Shad Landing State Park Marina	MD	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87544		NAD	NAB	Shallow Creek	MD	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72817	4665	NPD	NPP	Smith River	OR	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
378	123	NED	NED	South Bristol Harbor	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
79710		SAD	SAJ	South Brunswick River	GA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
252	312	NED	NED	Southport Harbor	CT	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
381	107	NED	NED	Southwest Harbor	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		NCD	NCR	Squaw Chute at Quincy	IL	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73732		NAD	NAN	St. Albans Harbor	VT	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
382	1	NED	NED	St. Croix River	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
79130		NAD	NAB	St. Georges Creek	MD	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73860	242	NAD	NAP	St. Jones River	DE	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
254	302	NED	NED	Stonington Harbor	CT	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
385		NED	NED	Sullivan Falls Harbor	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104		LMD	LMN	Sulphur River	AR	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74391	2130	SAD	SAJ	Suwannee River	FL	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73733		NAD	NAN	Swanton Harbor	VT	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74627	1255	SAD	SAW	Swift Creek	NC	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74523		SAD	SAM	Tallapoosa River	AL	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	1336	NAD	NAO	Taskinas Creek	VA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
446	47	NED	NED	Tauton River	MA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
201	2233	LMV	LMN	Tickfaw, Natalbany, P&B R.	LA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87510		SAD	SAM	Tombigbee River at Columbus Port	MS	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73894	288	NAD	NAP	Toms River	NJ	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21660	628	NAD	NAO	Totuskey Creek	VA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87453		NCD	NCB	Toussaint River, Carroll Township	OH	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
71175	2330	ORD	ORL	Tradewater River	KY	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73603	436	NAD	NAB	Tyaskin Creek	MD	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
387		NED	NED	Union Harbor, (Union River)	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74543	2184	SAD	SAM	Upper Chipola River	FL	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
601	458	NAD	NAB	Upper Machodoc Creek	VA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		NCD	NCS	Wabasha Harbor	MN	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87509		NAD	NAO	Wachapreague Channel, Accomack County	VA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

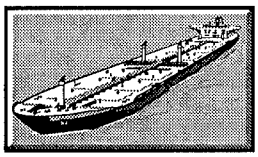
SHALLOW-DRAFT NAVIGATION PROJECTS:

ACTUAL O&M EXPENDITURES(1990-1994); WATERBORNE COMMERCE(1992-1994);AND AVERGAGE O&M COSTS (1977-1994), AVERAGE TONNAGES (1992-1994) AND O&M COSTS PER TON (TOTAL 733)

PWI	WTWY	DIV	DIS	PROJECT NAME	ST	TYPE	92 TONS	93 TONS	94 TONS	AVERAGE TONS 1992-1994	AVERAGE COST (1994 $) PER TONS	AVG O&M 1977-1994 (1994 $)	90 O&M	91 O&M	92 O&M	93 O&M	94 O&M
													(1,000'S DOLLARS)				
59250		NAD	NAN	Wappinger Creek	NY	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
572	50	NED	NED	Warren River	RI	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19480	81	NED	NED	Warwick Cove	RI	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73671	386	NAD	NAN	Washington Canal and South River	NJ	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
74477	874	SAD	SAC	Wateree River	SC	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73636	376	NAD	NAN	Waycake Creek	NJ	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87102		NPD	NPS	Westhaven Cove Small Boat Basin	WA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
257	313	NED	NED	Westport Harbor & Saugatuck River	CT	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87632		NPD	NPP	Westport-Puget Sound	WA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
573	197	NED	NED	Wickford Harbor	RI	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76063		SPD	SPN	Wilmington Harbor	DE	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
79090		NED	NED	Winnipesaukee Lake	NH	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20110	1047	NED	NED	Winter Harbor	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
456	151	NED	NED	Winthrop Harbor	MA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19850	1329	NAD	NAO	Wishart Point Channel	VA	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73672	389	NAD	NAN	Woodbridge Creek	NJ	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73896	260	NAD	NAP	Woodbury Creek	NJ	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
497		LMD	LMK	Yalobusha River	MS	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
392	27	NED	NED	York Harbor	ME	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
485		NCD	NCS	Zippel Bay	MN	S	0	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTALS							116851584.00	125053443.00	128248900.00	123384642	0.465	57,411.441	55,776.150	62,024.770	52,857.500	69,469.900	68,632.960

NOTES: (1) Waterborne Commerce Data from the USACE Waterborne Commerce Statistics Center, New Orleans, LA
(2) O&M Expenditures from the Corps Navigation Cost Recovery Database Sytem reports, USACE, Institute for Water Resources
(3) For projects with zero tonnage, the tonnage was set to one for the purpose of computing the average O&M cost per ton.
(4) For projects with zero average O&M (77-94), the O&M was set to one for the purpose of computing the average O&M cost per ton.

PWI = Project Work Item
WTWY = Waterway Code
TYPE S= Shallow Draft Project



Navigation Operation and Maintenance:
Expenditures for Harbors and Waterways
Fiscal Year 1996

APPENDIX K - Shallow Draft Navigation Projects Subject to the Inland Waterway Fuel Tax, Analysis by Segment, O&M Expenditures, Average Ton-Miles per year, and Annual O&M Cost per Ton-Mile

SHALLOW DRAFT NAVIGATION PROJECTS SUBJECT TO INLAND WATERWAY FUEL TAX, ANALYSIS BY SEGMENT, O&M EXPENDITURES, AVERAGE TON-MILES PER YEAR, AND ANNUAL O&M COST PER YEAR

SEGMENT	LENGTH IN OPERATION (MILES)	AVERAGE ANNUAL TON-MILES (000)	AVERAGE ANNUAL TON-MILES PER MILE WATERWAY (000)	AVERAGE ANNUAL O&M COST (000)	PERCENT OF TON-MILES	PERCENT OF O&M COST	O&M COST SHARE/ TON-MILE SHARE	AVERAGE ANNUAL O&M COST PER TON-MILE
Alabama-Coosa	314	149,604	476	7,372.90	0.06	1.74	29.000	4.928
Allegheny	72	50,475	701	7,975.50	0.02	1.88	94.000	15.801
Apalachicola-Chattahoochee-Flint	291	66,024	227	8,427.14	0.03	1.99	66.333	12.764
Arkansas	448	1,814,784	4,051	25,558.22	0.69	6.04	8.754	1.408
Atchafalaya-Old	121	587,550	4,856	1,507.42	0.22	0.36	1.636	0.257
Atlantic Intracoastal (AIWW)	1192	356,604	299	17,705.40	0.14	4.18	29.857	4.965
Black Warrior-Tombigbee	453	5,876,988	12,973	13,367.28	2.23	3.16	1.417	0.227
Columbia-Snake	276	1,387,730	5,028	7,768.86	0.53	1.84	3.472	0.560
Cumberland	314	1,342,155	4,274	7,901.68	0.51	1.87	3.667	0.589
Green-Barren	108	525,543	4,866	1,320.93	0.2	0.31	1.550	0.251
Gulf Intracoastal (GIWW)	1134	21,353,637	18,830	32,773.44	8.1	7.75	0.957	0.153
Illinois	349	9,024,253	25,857	16,431.54	3.42	3.88	1.135	0.182
Kanawha	91	1,537,022	16,890	8,447.72	0.58	2.00	3.448	0.550
Kaskaskia	36	55,587	1,544	1,719.62	0.02	0.41	20.500	3.094
Kentucky	82	17,118	209	2,162.43	0.01	0.51	51.000	12.632
Lower Mississippi	720	116,392,506	161,656	58,895.55	44.13	13.92	0.315	0.051
Middle Mississippi	195	18,594,214	95,355	11,765.14	7.05	2.78	0.394	0.063
Missouri	735	639,329	870	6,027.98	0.24	1.42	5.917	0.943
Monongahela	129	1,441,407	11,174	12,886.99	0.55	3.05	5.545	0.894
Ohio	981	58,465,957	59,598	45,391.90	22.17	10.73	0.484	0.078
Ouachita-Black	351	127,259	363	4,426.78	0.05	1.05	21.000	3.479
Pearl (West Pearl)	58	7	0	625.84	0	0.15	0	8692.222
Red	236	368,405	1,561	5,497.62	0.14	1.30	9.286	1.492
Tennessee	652	6,876,376	10,547	11,406.32	2.61	2.70	1.034	0.166
Tennessee-Tombigbee	234	984,071	4,205	15,740.24	0.37	3.72	10.054	1.600
Upper Mississippi	663	15,641,025	23,591	87,238.70	5.93	20.62	3.477	0.558
White	244	82,616	339	1,996.09	0.03	0.47	15.667	2.416
Willamette	26	8,587	330	774.59	0	0.18	0	9.021
Total	**10505**	**263,766,833**	**25,109**	**423,113.82**	**100.03**	**100.01**	**1.000**	**0.160**

Source: Traffic and Cost Relatinships of the Inland Waterway System, draft paper by Dr. Larkin Warner and Jack Lane, U.S. Army Corp of Engineers, Institute for Water Resources, July 1996

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13. ABSTRACT (Maximum 200 words)

This report documents the actual Fiscal Year FY 1996 expenditures for the operation and maintenance (O&M) of U.S. Army Corps of Engineers navigation projects. These costs were developed using the Corps Navigation Cost Recovery Database System (NCRDBS). The NCRDBS contains operation and maintenance expenditures dating from Fiscal Year FY 1977 for commercial navigation, other and joint purposes for all projects with navigation as an authorized purpose.

The database is organized into three components: deep draft navigation projects subject to the Harbor Maintenance Tax (HMT); shallow draft harbor projects subject to the Inland Waterway Fuel Tax; and shallow draft projects not subject to the fuel tax. Navigation O&M costs for deep draft projects and shallow draft harbors not subject to the fuel tax are recovered from the Harbor Maintenance Trust Fund (HMTF).

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