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WATERBORNE

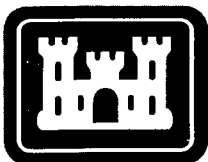
COMMERCE

OF THE

UNITED STATES

Calendar Year 1996

Part 5—
National Summaries



Department of the Army
Corps of Engineers

Water Resources Support Center

WRSC-WCUS-96-5

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WATERBORNE COMMERCE OF THE UNITED STATES

Calendar Year 1996

Part 5—
National Summaries



Compiled under the supervision of
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U.S. Army Corps of Engineers
Fort Belvoir, Virginia

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Introduction

General

Waterborne Commerce of the United States, WCUS, Part 5 is one of a series of publications which provides statistics on the foreign and domestic waterborne commerce moved on the United States waters. WCUS, Parts 1-4 present detailed data on the movements of vessels and commodities at the ports and harbors and on the waterways and canals of the United States, and its territories. **WCUS, Part 5** provides a condensation of this detailed information thereby providing the decision makers a broad perspective of commerce served by the U.S. waterways and ports.

WCUS, Part 5 provides extensive graphic and tabular displays of both current waterborne traffic and historic levels. Statistics are aggregated by region, state, port and waterway for comparative purposes.

Data on foreign commerce are supplied to the Corps of Engineers by the Bureau of Census. Data for the compilation of the domestic statistics are collected by the Corps of Engineers, Department of the Army.

The publication numbers and the geographical areas covered in **WCUS, Parts 1-5** are detailed below:

WCUS, Part 1 Atlantic Coast

WCUS, Part 2 Gulf Coast, Mississippi River System and Antilles

WCUS, Part 3 Great Lakes

WCUS, Part 4 Pacific Coast, Alaska and Hawaii

WCUS, Part 5 National Summaries

Legal Authority

The legal authority for the collection, compilation and publication of waterborne commerce statistics by the Army Corps of Engineers is Section 11 of the Rivers and Harbors Appropriations Act of 1922 (42 Stat. 1043), as amended, and codified in 33 U.S.C. 555 and provides the following:

Owners, agents, masters, and clerks of vessels and other craft plying upon the navigable waters of the United States, and

all individuals and corporations engaged in transporting their own goods upon the navigable waters of the United States, shall furnish such statements relative to vessels, passengers, freight, and tonnage as may be required by the Secretary of the Army: Provided, That this provision shall not apply to those rafting logs except upon a direct request upon the owner to furnish specific information.

Every person or persons offending against the provisions of this section shall, for each and every offense, be liable to a fine of not more than \$5,000 or imprisonment not exceeding two months, to be enforced in any district court of the United States within whose territorial jurisdiction such offense may have been committed. In addition, the Secretary may assess a civil penalty of up to \$2,500 per violation, against any person or entity that fails to provide timely, accurate statements required to be submitted pursuant to this section by the Secretary.

The vessel and commodity movement information collected and compiled is designed to meet the data requirements of the Department of the Army in connection with the duties assigned by Congress. These data also provide valuable information for other governmental departments, commercial and shipping concerns and others interested in the U.S. transportation industry.

Domestic Commerce

Contiguous and non-contiguous states and territories constitute the geographical space upon which domestic commerce may be transported. This includes Hawaii, Alaska, the 48 contiguous states, Puerto Rico and the Virgin Islands, Guam, American Samoa, Wake Island and the U.S. Trust Territories.

The waterborne traffic movements are reported to the Corps of Engineers by all vessel operators of record on ENG Forms 3925 and 3925b (or equivalent) approved by the Office of Management and Budget under the Paperwork Reduction Act (44 U.S.C. 3510(a)). The reports are generally submitted on the basis of individual vessel movements completed. For movements with cargo, the point of loading and the point of unloading of each individual commodity must be delineated. Cargo moved for the military agencies in commercial vessels is reported as ordinary commercial cargo; military cargo moved in Department of Defense vessels is not collected.

In summarizing the domestic commerce certain movements are excluded: Cargo carried on general ferries; coal and petroleum products loaded from shore facilities directly into bunkers of vessels for fuel; and insignificant amounts of government materials (less than 100 tons) moved on government owned equipment in support of Corps projects.

Beginning with this year's publication, in 1996, fish will be excluded for internal and intraport domestic traffic. The fish landing data is furnished by the National Marine Fisheries Service.

In tables containing domestic tonnage totals for the U.S., the commodity "Waterway Improvement Materials" is not included. "Waterway Improvement Materials" tonnage is included in domestic ports, waterways and waterway systems. This is the same procedure that has been used in years prior to 1990; therefore, the tonnages for years 1990 and later are comparable to tonnages in years prior to 1990.

Foreign Commerce

Foreign commerce is waterborne import and export traffic between the United States, Puerto Rico and the Virgin Islands and any foreign country. These statistics do not include traffic between Guam, Wake Island and American Samoa and any other foreign country.

Foreign commerce data are furnished to the Corps of Engineers by the Bureau of the Census under a working arrangement sponsored by the Office of Management and Budget. The data is confined to vessel movements by water and is reconcilable with published reports of the Bureau of Census with the exception of LOOP Oil

Terminal and Skagway Wharf reports which are manually entered as imports by the Corps of Engineers.

The Republic of Panama is considered a foreign country. However, individual vessel movements with origin and destination at United States ports traveling via the Panama Canal are considered domestic traffic. Alaskan crude oil (origin at Valdez, AK) shipped via the Panama pipeline (west to east) and destined for gulf and east coast ports is also considered domestic commerce.

Import and export shipments for use of the United States Armed Forces abroad are not reported to the Waterborne Commerce Statistics Center (WCSC). Beginning with calendar year 1989 shipments under the military assistance program of the Department of Defense are included in the statistics under the appropriate commodity code. In prior years these cargoes were given as commodity code 9999.

Commodity Descriptions

The first two digits of the WCSC publication codes correspond with the Lock Performance Monitoring System (LPMS) commodity codes. Both LPMS AND WCSC codes were standardized to reflect the hierarchical structure of the Standard Industrial Trade Classification (SITC) Revision 3 commodity codes. SITC, REV. 3 commodity codes conform to the Harmonized Commodity Description and Coding System (HS). Using SITC, Rev. 3 allows direct comparisons with U.S. imports and exports, as well as, with commodity movements of other countries.

Tonnage

The tonnage figures provided throughout the **WCUS, Parts 1-5** represent short tons (2000 pounds). Tonnage figures are rounded to the nearest 1000 tons.

A zero represents less than 500 tons but more than zero. Dashes mean zero tons. Columns and rows may not add up exactly to totals and subtotals due to rounding.

Some freight tables have "Total" and "Grand Total". The "Total" means that in some cases it is the total for domestic or foreign and Canadian traffic. The "Grand Total" specifically represents the sum total of all the different traffics, including all domestic and foreign traffic. If a particular

column or traffic type has only dashes and zeroes in the tonnage fields for that entire freight table then that column (traffic type) will not print.

Ton-Miles

For domestic movements, ton-miles equal the cargo tonnage times the distance between the point of loading on the water and the point of

unloading on the water. For U.S. - Canada movements on the Great Lakes, ton-miles equal the tonnage times the distance between the U.S. and Canadian locations. For overseas imports and exports, foreign ton-miles are computed by multiplying the cargo tonnage by the miles carried on U.S. waterways and channels. Ton-miles are rounded to the nearest million ton-miles.

Terminology

Types of Traffic

Foreign

Imports

Overseas: Inbound merchandise for direct consumption and entries into custom bonded storage and manufacturing warehouses originating in foreign countries other than Canada.

Canadian: Inbound merchandise for direct consumption and entries into custom bonded storage and manufacturing warehouses originating in Canada.

Exports

Overseas: Outbound domestic merchandise and re-export of foreign merchandise from a U.S. foreign trade zone destined for foreign countries other than Canada.

Canadian: Outbound domestic merchandise and re-export of foreign merchandise from a U.S. foreign trade zone destined for Canada.

Intransit Merchandise: Inbound merchandise coming into the United States from a foreign country and shipped to a foreign country without having been entered as an import. Intransit merchandise is treated as an **Import** when unloaded from a vessel and as an **Export** when loaded onto a vessel.

Domestic

Coastwise: Domestic traffic receiving a carriage over the ocean, or the Gulf of Mexico, (e.g. New Orleans to Baltimore, New York to Puerto Rico, San Francisco to Hawaii, Alaska to Hawaii). Traffic between Great Lakes ports and seacoast ports, when having a carriage over the ocean, is also termed **Coastwise**.

Lakewise: Waterborne traffic between the United States ports on the Great Lakes System. The Great Lakes System is treated as a separate waterway system rather than as a part of the inland waterway system. In comparing historical data for the Great Lakes System, one should note that prior to calendar year 1990, marine products, sand and gravel being moved from the Great Lakes to Great Lake destinations were classified as local traffic. From 1990 on, these activities are classified as lakewise traffic.

Internal: Vessel movements (origin and destination) which take place solely on inland waterways. An inland waterway is one geographically located within the boundaries of the contiguous 48 states or within the boundaries of the State of Alaska.

The term "internal traffic" is also applied to these vessel movements: those which involve carriage on both inland waterways and the Great Lakes; those occurring between offshore areas and inland waterways (e.g., oil rig supplies and fish); and those taking place within Delaware Bay, Chesapeake Bay, Puget Sound, and the San Francisco Bay, which are considered internal bodies of water rather than arms of the ocean.

Intraport: Movement of freight within the confines of a port whether the port has one or several arms or channels included in the port definition. This traffic type will not include car-ferries and general ferries moving within a port.

Through: Movements transiting a waterway, or stretch thereof, as defined in the project description of individual tables, and having origins and destinations outside of the defined area.

Intra-waterway: Movements within the limits of a river, waterway or canal. This traffic will not include car-ferries and general ferries moving within a waterway or Corps project.

Intra-territory: Traffic between ports in Puerto Rico and the Virgin Islands, which are considered a single unit.

Traffic Direction

Waterways

Upbound: Traffic that moves in an upstream direction. For waterways without a characteristic monodirectional flow (e.g. the Gulf Intracoastal Waterway), "upbound" means in a northerly or easterly direction.

Downbound: Traffic that moves in a downstream direction. For waterways without a characteristic monodirectional flow, "downbound" means in a southerly or westwardly direction.

Inbound: Traffic moving from one waterway into another where the destination is on the subject waterway.

Outbound: Traffic moving from one waterway into another where the origin is on the subject waterway.

Ports

Receipts: Traffic moving from one location to another where the destination is within the limits of the subject port.

Shipments: Traffic moving from one location to another where the origin is within the limits of the subject port.

Commodity Descriptions: The first two digits of the Waterborne Commerce Statistics Center (WCSC) publication codes correspond with the Lock Performance Monitoring System, (LPMS), commodity codes. Both LPMS and WCSC codes were standardized to reflect the hierarchical structure of the Standard Industrial Trade Classification (SITC) Revision 3 commodity codes. SITC, Rev. 3 commodity codes conform to the Harmonized Commodity Description and Coding System (HS). Using SITC, Rev. 3 allows direct comparisons with U.S. imports and exports, as well as with commodity movements of other countries.

Tons: The tonnage figures provided throughout the *Waterborne Commerce of the United States*, **WCUS, Parts 1-5** represent short tons (2000 pounds). Where noted, tonnage figures are rounded to the nearest million. A zero represents less than 500,000 tons but more than zero. Dashes mean zero tons. Columns and rows may not add up exactly to totals and subtotals due to rounding.

Ton-miles: Water carriage ton-miles were first compiled and published in calendar year 1962. The distances used are statute miles. Domestic ton-miles are calculated by multiplying the tons of commerce being moved by the number of miles actually moved on the water (e.g. 50 short tons moving 200 miles on a particular waterway would yield 10,000 ton-miles for that waterway). The ton-mile parameter measures the total performance of a waterway. Ton-miles are not computed for ports.

For coastwise traffic this represents the mileage on the shortest route that safe navigation permits between the point of origin and destination. The source of this distance information for coastwise traffic is the publication, *Distance Between United States Ports*, published by the National Oceanic and Atmospheric Administration (1987).

For rivers and inland waterways the distances were computed from waterway survey maps and records of the Corps of Engineers.

For the Great Lakes system the ton-miles are computed for movements of cargo west of the

TERMINOLOGY

international boundary of St. Regis, Quebec, Canada to head of Lake Superior at Duluth, MN and Superior, WI.

For Canadian imports and exports, foreign ton-miles are computed as the tonnage times the distance between the U.S. and Canadian ports.

For lakewise domestic movements, ton-miles equal the cargo tonnage times the distance between the U.S. Great Lakes ports.

For overseas imports and exports, foreign ton-miles are computed by multiplying the cargo tonnage by the miles carried on U.S. waterways and channels.

Ton-miles are rounded to the nearest million.

Trans-Shipments: Ports and offshore anchorages where cargo is moved from one vessel to another.

These are: St. Lucia, Virgin Islands; Heald Bank off the Louisiana and Texas coasts; Chirqui Grande, Panama; Puerto Armuelles, Panama; and Hondo Platform-Pacific Ocean.

Commodity Classification List

<u>Major Grouping</u>	<u>Minor Grouping</u>	<u>Pub Group</u> <u>Pub Name</u>	<u>Major Grouping</u>	<u>Minor Grouping</u>	<u>Pub Group</u> <u>Pub Name</u>
00	Units				3281 Radioactive Material
		0200 Vehicles			3282 Pigments & Paints
		0300 Passengers			3283 Coloring Mat. NEC
10	Coal				3284 Medicines
		1100 Coal			3285 Perfumes & Cleansers
		1200 Coal Coke			3286 Plastics
20	Petroleum & Petroleum Products				3291 Pesticides
	21 Crude Petroleum				3292 Starches,Gluten,Glue
		2100 Crude Petroleum			3293 Explosives
	22-29 Petroleum Products				3297 Chemical Additives
		2211 Gasoline	40	Crude Materials, Inedible Except Fuels	3298 Wood & Resin Chem.
		2221 Kerosene			3299 Chem. Products NEC
		2330 Distillate Fuel Oil	41	Forest Products, Wood and Chips	
		2340 Residual Fuel Oil			4110 Rubber & Gums
		2350 Lube Oil & Greases			4150 Fuel Wood
		2410 Petro. Jelly & Waxes			4161 Wood Chips
		2429 Naphtha & Solvents			4170 Wood in the Rough
		2430 Asphalt, Tar & Pitch			4189 Lumber
		2540 Petroleum Coke			4190 Forest Products NEC
		2640 Liquid Natural Gas	42	Pulp and Waste Paper	
		2990 Petro. Products NEC			4225 Pulp & Waste Paper
30	Chemicals and Related Products		43	Soil, Sand, Gravel, Rock and Stone	
	31 Fertilizers				4310 Building Stone
		3110 Nitrogenous Fert.			4322 Limestone
		3120 Phosphatic Fert.			4323 Gypsum
		3130 Potassic Fert.			4327 Phosphate Rock
		3190 Fert. & Mixes NEC			4331 Sand & Gravel
	32 Other Chemicals and Related Products				4333 Dredged Material
		3211 Acyclic Hydrocarbons			4335 Waterway Improv. Mat
		3212 Benzene & Toluene			4338 Soil & Fill Dirt
		3219 Other Hydrocarbons	44	Iron Ore and Scrap	
		3220 Alcohols			4410 Iron Ore
		3230 Carboxylic Acids			4420 Iron & Steel Scrap
		3240 Nitrogen Func. Comp.	45	Marine Shells	
		3250 Organo-Inorganic Comp.			4515 Marine Shells
		3260 Organic Comp. NEC	46	Non-Ferrous Ores and Scrap	
		3271 Sulphur (Liquid)			4630 Copper Ore
		3272 Sulphuric Acid			4650 Aluminum Ore
		3273 Ammonia			4670 Manganese Ore
		3274 Sodium Hydroxide			4680 Non-Ferrous Scrap
		3275 Inorg. Elem.,Oxides, & Halogen Salts			4690 Non-Ferrous Ores NEC
		3276 Metallic Salts	47	Sulphur, Clay and Salt	
		3279 Inorganic Chem. NEC			4741 Sulphur, (Dry)
					4782 Clay & Refrac. Mat.
					4783 Salt
			48	Slag	
					4860 Slag

Commodity Classification List (continued)

Major Grouping

Minor Grouping

Pub Group Pub Name

49 Other Non-Metal. Min.
4900 Non-Metal. Min. NEC

50 Primary Manufactured Goods

51 Paper Products

5110 Newsprint

5120 Paper & Paperboard

5190 Paper Products NEC

52 Lime, Cement and Glass

5210 Lime

5220 Cement & Concrete

5240 Glass & Glass Prod.

5290 Misc. Mineral Prod.

53 Primary Iron and Steel Products

5312 Pig Iron

5315 Ferro Alloys

5320 I&S Primary Forms

5330 I&S Plates & Sheets

5360 I&S Bars & Shapes

5370 I&S Pipe & Tube

5390 Primary I&S NEC

54 Primary Non-Ferrous Metal Products

5421 Copper

5422 Aluminum

5429 Smelted Prod. NEC

5480 Fab. Metal Products

55 Primary Wood Products; Veneer

5540 Primary Wood Prod.

60 Food and Farm Products

61 Fish

6134 Fish (Not Shellfish)

6136 Shellfish

62-64 Grain

6241 Wheat

6344 Corn

6442 Rice

6443 Barley & Rye

6445 Oats

6447 Sorghum Grains

65 Oilseeds

6521 Peanuts

6522 Soybeans

6534 Flaxseed

6590 Oilseeds NEC

66 Vegetable Products

6653 Vegetable Oils

6654 Vegetables & Prod.

67 Processed Grain and Animal Feed

6746 Wheat Flour

6747 Grain Mill Products

Major Grouping

Minor Grouping

Pub Group Pub Name

6781 Hay & Fodder

6782 Animal Feed, Prep.

68 Other Agricultural Products

6811 Meat, Fresh, Frozen

6817 Meat, Prepared

6822 Dairy Products

6835 Fish, Prepared

6838 Tallow, Animal Oils

6839 Animals & Prod. NEC

6856 Bananas & Plantains

6857 Fruit & Nuts NEC

6858 Fruit Juices

6861 Sugar

6865 Molasses

6871 Coffee

6872 Cocoa Beans

6885 Alcoholic Beverages

6887 Groceries

6888 Water & Ice

6889 Food Products NEC

6891 Tobacco & Products

6893 Cotton

6894 Natural Fibers NEC

6899 Farm Products NEC

70 All Manufactured Equipment, Machinery
and Products

7110 Machinery (Not Elec)

7120 Electrical Machinery

7210 Vehicles & Parts

7220 Aircraft & Parts

7230 Ships & Boats

7300 Ordnance & Access.

7400 Manufac. Wood Prod.

7500 Textile Products

7600 Rubber & Plastic Pr.

7800 Empty Containers

7900 Manufac. Prod. NEC

80 Waste and Scrap NEC

8900 Waste and Scrap NEC

90 Unknown or Not Elsewhere Classified

99 Unknown or Not Elsewhere Clsfd

9900 Unknown or NEC

Section 1

National Summaries

Figure 1-1: Major Waterways



and Ports of the United States



TABLE OF MILES BETWEEN MISSISSIPPI-GULF WATERWAY POINTS

	ARKANSAS R. MOBILE	BAYOU	CAIRO	CHICAGO	CINCINNATI	COLUMBIA	MEMPHIS	MINNEAPOLIS	MOBILE	MOBILE (NEW)	MOBILE (OLD)	NEW ORLEANS	NEW ORLEANS (NEW)	PANAMA	PITTSBURGH	ST. LOUIS
ARKANSAS R. MOBILE																
BAYOU	367															
CAIRO	355	725														
CHICAGO	900	1270	545													
CINCINNATI	866	235	511	1055												
COLUMBIA	744	382	1132	1187	1643											
MEMPHIS	136	519	219	750	730	1226										
MINNEAPOLIS	1209	1579	854	863	1365	1989	1073									
MOBILE	661	294	713	1222	1294	516	813	1267								
MOBILE (NEW)	513	123	673	1418	1394	293	633	1207	229							
MOBILE (OLD)	497	130	855	1400	1366	368	635	1709	164	95						
NEW ORLEANS	295	72	653	1198	1164	493	431	1507	366	270	302					
NEW ORLEANS (NEW)	402	727	47	597	454	1188	786	901	830	931	902	700				
PANAMA	1336	1706	881	1628	470	2913	1000	1635	1000	1838	1838	1634	824			
PITTSBURGH	535	905	180	345	630	1312	369	874	801	1053	1035	823	217	1161		
ST. LOUIS	117	745	262	807	679	669	481	1316	451	840	363	585	215	1198	442	

MAJOR WATERWAYS AND PORTS OF THE UNITED STATES AND SELECTED TERRITORIES

LEGEND

- EXISTING PRINCIPAL WATERWAY
- WATERWAY UNDER CONSTRUCTION
- OTHER WATERWAY
- EXISTING LOCK, LOCKS ON DAM/LAKE
- LOCK OR LOCKS UNDER CONSTRUCTION
- LOCK NAME
- NUMBER OF MULTIPLE LOCKS
- POINT OR OTHER CITY

U.S. ARMY CORPS OF ENGINEERS
 CHIEF OF ENGINEERS
 DIRECTORATE OF CIVIL WORKS
 WASHINGTON, D.C. 20344
 JANUARY 1969

Figure 1-2
 TOTAL WATERBORNE COMMERCE OF THE U.S., 1957-1996
 (million short tons)

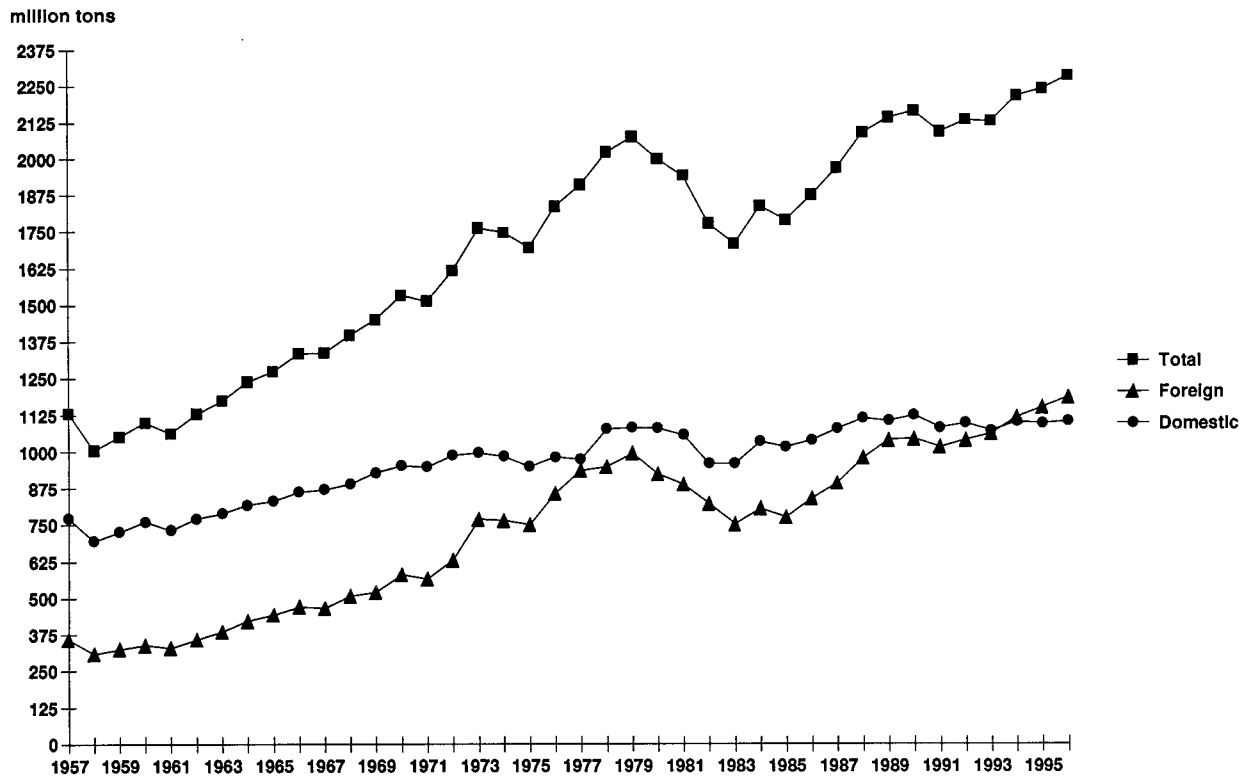


Table 1-1: TOTAL WATERBORNE COMMERCE OF THE U.S., 1957-1996
(in short tons of 2000 pounds)

Year	Total	Foreign	Domestic
1957	1,131,401,434	358,539,550	772,861,884
1958	1,004,515,776	308,850,798	695,664,978
1959	1,052,402,102	325,669,939	726,732,163
1960	1,099,850,431	339,277,275	760,573,156
1961	1,062,155,182	329,329,818	732,825,364
1962	1,129,404,375	358,599,030	770,805,345
1963	1,173,766,964	385,658,999	788,107,965
1964	1,238,093,573	421,925,133	816,168,440
1965	1,272,896,243	443,726,809	829,169,434
1966	1,334,116,078	471,391,083	862,724,995
1967	1,336,606,078	465,972,238	870,633,840
1968	1,395,839,450	507,950,002	887,889,448
1969	1,448,711,541	521,312,362	927,399,179
1970	1,531,696,507	580,969,133	950,727,374
1971	1,512,583,690	565,985,584	946,598,106
1972	1,616,792,605	629,980,844	986,811,761
1973	1,761,552,010	767,393,903	994,158,107
1974	1,746,788,544	764,088,905	982,699,639
1975	1,695,034,366	748,707,407	946,326,959
1976	1,835,006,819	855,963,909	979,042,910
1977	1,908,223,619	935,256,813	972,966,806
1978	2,021,349,754	946,057,889	1,075,291,865
1979	2,073,757,628	993,444,963	1,080,312,665
1980	1,998,887,402	921,404,000	1,077,483,402
1981	1,941,558,947	887,102,150	1,054,456,797
1982	1,776,740,579	819,730,983	957,009,596
1983	1,707,661,011	751,140,194	956,520,817
1984	1,836,020,619	803,338,133	1,032,682,486
1985	1,788,434,822	774,323,283	1,014,111,539
1986	1,874,416,280	837,223,503	1,037,192,777
1987	1,967,458,261	890,980,045	1,076,478,216
1988	2,087,993,484	976,220,985	1,111,772,499
1989	2,140,442,372	1,037,910,213	1,102,532,159
1990	2,163,854,373	1,041,555,740	1,122,298,633
1991	2,092,108,462	1,013,557,036	1,078,551,426
1992	2,132,095,154	1,037,466,130	1,094,629,024
1993	2,128,221,188	1,060,041,217	1,068,179,971
1994	2,214,754,086	1,115,742,828	1,099,011,258
1995	2,240,393,059	1,147,357,782	1,093,035,277
1996	2,284,065,249	1,183,386,621	*1,100,678,628

*Beginning in 1996, fish was excluded for internal and intraport domestic traffic.

Table 1-2: FOREIGN WATERBORNE COMMERCE OF THE U.S., 1957-1996
(in short tons of 2000 pounds)

Year	Imports				Exports			
	Total	Coastal	Great Lakes		Total	Coastal	Great Lakes	
			Canadian	Overseas			Canadian	Overseas
1957	186,351,843	176,235,956	9,885,526	230,361	*172,187,707	146,889,737	24,983,574	288,273
1958	189,484,551	181,480,343	7,656,590	347,618	*119,366,247	101,554,806	17,429,825	360,159
1959	213,485,323	198,607,603	13,794,435	1,083,285	*112,184,616	91,629,487	17,700,427	2,833,118
1960	211,316,497	198,465,746	11,973,635	877,116	127,960,778	104,810,455	19,168,514	3,981,809
1961	200,165,652	188,179,228	11,007,197	979,227	129,164,166	105,959,031	18,801,857	4,403,278
1962	222,689,941	207,040,920	14,487,847	1,161,174	135,909,089	110,492,248	20,484,581	4,932,260
1963	227,375,671	209,369,531	16,495,342	1,510,798	158,283,328	129,781,571	24,455,139	4,046,618
1964	248,585,715	224,433,206	22,118,397	2,034,112	173,339,418	142,874,452	24,866,892	5,598,074
1965	269,834,819	244,874,087	21,059,701	3,901,031	173,891,990	142,121,011	25,692,770	6,078,209
1966	283,847,300	257,173,478	22,585,271	4,088,551	187,543,783	155,759,371	24,905,662	6,878,750
1967	275,965,191	248,245,275	23,269,404	4,450,512	190,007,047	162,443,124	21,896,595	5,667,328
1968	310,936,331	278,826,933	25,658,847	6,450,551	197,013,671	166,579,691	24,444,154	5,989,826
1969	320,293,084	295,647,991	19,770,247	4,874,846	201,019,278	168,944,254	25,235,730	6,839,294
1970	339,339,772	312,933,583	21,820,193	4,585,996	241,629,361	205,697,712	29,146,465	6,785,184
1971	359,745,840	333,776,713	19,104,708	6,864,419	206,239,744	172,758,807	24,757,317	8,723,620
1972	397,565,612	372,417,770	18,861,084	6,286,758	232,415,232	197,430,445	25,352,496	9,632,291
1973	490,088,015	461,828,145	22,988,904	5,270,966	277,305,888	238,807,467	28,435,708	10,062,713
1974	497,282,811	473,940,012	19,027,376	4,315,423	266,806,094	238,686,754	23,342,970	4,776,370
1975	476,572,426	455,117,218	18,121,866	3,333,342	272,134,891	236,707,996	28,707,321	6,719,574
1976	570,318,893	539,674,048	25,845,506	4,799,339	285,645,016	250,632,668	28,050,680	6,961,668
1977	658,136,893	625,308,679	25,416,264	7,411,950	277,119,920	240,784,157	27,741,857	8,593,906
1978	643,186,863	616,140,827	19,916,819	7,129,217	302,871,026	259,316,657	30,961,456	12,592,913
1979	632,995,657	607,898,526	19,450,918	5,646,213	360,449,306	311,786,293	37,964,841	10,698,172
1980	517,521,121	502,005,866	13,414,205	2,101,050	403,882,879	358,805,981	37,216,588	7,860,310
1981	477,191,504	457,467,479	16,794,705	2,929,320	409,910,646	366,424,418	36,976,771	6,509,457
1982	416,621,434	402,511,218	11,541,473	2,568,743	403,109,549	366,825,117	29,701,691	6,582,741
1983	387,847,325	371,773,135	13,080,460	2,993,730	363,292,869	330,955,677	26,794,890	5,542,302
1984	427,139,571	409,295,162	12,922,699	4,921,710	376,198,562	335,269,229	32,286,050	8,643,283
1985	412,687,350	395,577,007	11,916,969	5,193,374	361,635,933	327,425,824	27,727,141	6,482,968
1986	486,073,464	472,230,980	9,597,544	4,244,940	351,150,039	319,163,161	25,248,144	6,738,734
1987	507,704,274	493,828,182	10,040,313	3,835,779	383,275,771	351,226,492	26,766,116	5,283,163
1988	549,897,111	534,043,106	11,720,685	4,133,320	426,323,874	389,686,249	31,651,401	4,986,224
1989	589,504,121	571,732,624	13,535,132	4,236,365	448,406,092	411,338,444	31,936,141	5,131,507
1990	599,969,567	582,411,718	14,534,942	3,022,907	441,586,173	408,688,047	29,561,192	3,336,934
1991	555,354,134	541,066,623	12,078,748	2,208,763	458,202,902	430,654,747	25,178,669	2,369,486
1992	586,708,302	571,286,921	11,965,503	3,455,878	450,757,828	420,666,674	27,978,689	2,112,465
1993	648,783,131	630,700,438	13,680,579	4,402,114	411,258,086	385,697,690	22,914,344	2,646,052
1994	719,497,159	696,468,970	17,045,105	5,983,084	396,245,669	369,138,035	23,844,491	3,263,143
1995	672,657,412	653,760,004	15,635,613	3,261,795	474,700,370	441,732,416	29,182,948	3,785,006
1996	732,592,335	708,089,695	19,081,763	5,420,877	450,794,286	418,939,647	28,335,088	3,519,551

*Includes tonnage for Department of Defense controlled cargo and special category commodities for which breakdown by Canadian and Overseas traffic was:
1957 - 26,123 tons; 1958 - 21,457 tons; 1959 - 21,584 tons;

Table 1-3: DOMESTIC WATERBORNE COMMERCE OF THE U.S., 1957-1996
(in short tons of 2000 pounds)

Year	Total	Coastwise	Lakewise	Internal	Intraport	Intraterritory
1957	772,861,884	196,418,553	182,150,309	281,065,531	110,824,444	2,403,047
1958	695,664,978	194,050,174	132,288,549	261,068,849	105,424,974	2,832,432
1959	726,732,163	205,509,011	131,220,380	282,268,792	106,746,596	** 987,384
1960	760,573,156	209,196,823	155,109,237	291,056,655	104,193,446	1,016,995
1961	732,825,364	206,899,377	136,841,146	294,052,123	93,929,070	1,103,648
1962	770,805,345	215,460,882	135,743,781	316,061,877	102,277,229	1,261,576
1963	788,107,965	213,853,293	141,741,152	331,902,484	98,980,624	1,630,412
1964	816,168,440	205,687,985	151,404,618	357,916,216	99,579,422	1,580,199
1965	829,169,434	201,508,107	153,695,242	369,615,461	102,865,022	1,485,602
1966	862,724,995	208,374,966	164,036,995	389,851,631	99,214,579	1,246,824
1967	870,633,840	214,646,527	153,596,684	398,592,679	102,320,054	1,477,896
1968	887,889,448	214,250,535	151,115,936	430,174,303	90,730,336	1,618,338
1969	927,399,179	216,707,773	160,843,835	460,944,875	87,536,483	1,366,213
1970	950,727,374	238,440,385	157,058,867	472,123,417	81,474,805	1,629,900
1971	946,598,106	242,916,056	140,954,956	479,217,765	81,252,652	2,256,677
1972	986,811,761	242,660,087	145,013,420	506,989,242	90,266,095	1,882,917
1973	994,158,107	236,794,660	156,620,831	503,236,890	93,222,623	4,283,103
1974	982,699,639	233,358,124	146,067,270	511,021,978	88,197,576	4,054,691
1975	946,326,959	231,932,437	129,331,161	503,932,258	78,279,224	2,851,879
1976	979,042,910	236,278,624	132,112,775	523,972,573	83,731,092	2,947,846
1977	972,966,806	248,083,336	109,079,945	528,704,658	83,444,472	3,654,395
1978	1,075,291,865	305,342,824	142,662,552	534,508,943	89,506,584	3,270,962
1979	1,080,312,665	304,665,522	143,563,644	534,969,167	93,113,665	4,000,667
1980	1,077,483,402	329,608,613	115,124,231	534,979,027	94,183,696	3,587,835
1981	1,054,456,797	321,989,988	115,418,165	520,668,720	93,249,873	3,130,051
1982	957,009,596	311,058,264	72,084,986	495,453,486	75,601,691	2,811,169
1983	956,520,817	309,636,759	83,446,847	487,132,248	73,144,961	3,160,002
1984	1,032,682,486	307,652,127	98,010,499	542,502,695	81,110,880	3,406,285
1985	1,014,111,539	309,801,605	91,987,003	534,658,233	74,263,246	3,401,452
1986	1,037,192,777	308,024,669	87,352,525	560,499,024	77,357,617	3,958,942
1987	1,076,478,216	323,518,318	96,483,652	569,826,970	81,951,080	4,698,196
1988	1,111,772,499	325,176,859	109,664,111	588,118,666	83,689,494	5,123,369
1989	1,102,532,159	302,026,859	109,086,425	606,005,956	80,207,745	5,205,174
1990	1,122,298,633	298,636,988	110,159,406	622,595,330	86,377,845	4,529,064
1991	1,078,551,426	294,542,786	103,426,933	600,386,004	75,634,960	4,558,743
1992	1,094,629,024	285,130,765	107,398,037	621,037,417	76,817,429	4,245,376
1993	1,068,179,971	271,717,424	109,853,847	607,253,349	74,390,472	4,964,879
1994	1,099,011,258	277,029,286	114,777,289	618,408,708	82,870,326	5,925,649
1995	1,093,035,277	266,612,137	116,126,515	620,324,217	83,104,283	6,868,125
1996	1,100,678,628	267,388,864	114,870,355	*622,081,474	*89,010,522	7,327,413

* Beginning in 1996, fish was excluded.

** Beginning in 1959, excludes traffic within the states of Alaska and Hawaii. Such traffic is included in other domestic traffic categories in accordance with definitions applicable to continental United States.

Table 1-4: TOTAL WATERBORNE COMMERCE, 1977-1996
TON-MILES, SHORT TONS AND AVERAGE HAUL BY TYPE OF TRAFFIC

Year	Grand Total	Foreign			Domestic				
		Total	Great Lakes Ports	Coastal Ports	Total	Coastwise	Lakewise	Internal	Intraport
Ton-Miles*** (millions)									
1977	692,527.4	93,527.4	*37,734.3	**55,793.1	599,000.0	343,536.6	52,416.9	201,784.2	1,262.3
1978	928,297.7	101,034.4	*42,108.8	**58,925.6	827,263.3	540,373.2	76,284.0	209,266.2	1,339.8
1979	931,846.4	103,086.9	*43,146.4	**59,940.5	828,759.5	532,290.3	77,968.8	217,090.2	1,410.2
1980	1,016,085.2	94,249.4	*33,679.6	**60,569.8	921,835.8	631,149.2	61,747.1	227,343.0	1,596.4
1981	1,023,636.5	94,223.1	*35,294.0	**58,929.2	929,413.4	634,765.3	62,148.4	231,184.1	1,315.6
1982	964,896.9	78,428.2	*27,165.5	**51,262.7	886,468.7	632,707.1	35,623.3	217,026.7	1,111.7
1983	989,161.6	69,596.0	*24,309.4	**45,286.7	919,565.6	649,749.5	43,088.2	225,628.3	1,099.7
1984	966,478.2	78,758.2	*32,249.4	**46,508.8	887,720.0	593,923.1	49,784.4	242,855.4	1,157.1
1985	964,911.2	71,941.2	*27,171.8	**44,769.4	892,970.0	610,976.5	48,184.0	232,707.5	1,102.0
1986	944,910.5	71,509.4	*24,235.3	**47,274.2	873,401.0	580,888.7	43,198.2	248,116.9	1,197.3
1987	968,403.7	72,988.2	*22,003.3	**50,985.0	895,415.5	586,818.4	50,076.7	257,336.4	1,183.9
1988	970,685.0	80,656.6	*24,448.4	**56,208.2	890,028.4	561,594.9	58,159.5	269,035.7	1,238.4
1989	911,232.2	95,682.3	*27,118.9	**68,563.4	815,549.9	483,888.6	58,307.6	272,157.4	1,196.3
1990	+932,151.4	+98,607.6	*24,330.8	**74,276.9	833,543.8	479,133.6	60,929.9	292,393.3	1,087.0
1991	+938,671.3	+90,272.3	*17,102.6	**73,169.7	848,399.0	502,133.0	55,339.1	289,959.0	968.0
1992	+949,344.7	+92,660.1	*21,027.6	**71,632.5	856,684.6	502,311.0	55,784.6	297,638.7	950.3
1993	+882,605.8	+92,947.9	*26,106.8	**66,841.1	789,657.9	448,404.2	56,438.1	283,893.6	921.9
1994	909,405.0	94,485.8	*28,299.6	**66,186.2	814,919.2	457,600.7	58,263.4	297,762.4	1,292.7
1995	914,362.5	106,634.9	*31,656.5	**74,978.4	807,727.7	440,345.1	59,703.8	306,329.1	1,349.6
1996	870,193.4	105,506.9	*34,259.9	**71,247.0	764,686.5	408,086.1	58,335.3	296,790.6	1,474.5
Tons*** (millions)									
1977	1,904.6	935.3	69.2	866.1	969.3	248.1	109.1	528.7	83.4
1978	2,018.1	946.1	70.6	875.5	1,072.0	305.3	142.7	534.5	89.5
1979	2,069.8	993.4	73.8	919.7	1,076.3	304.7	143.6	535.0	93.1
1980	1,995.3	921.4	60.6	860.8	1,073.9	329.6	115.1	535.0	94.2
1981	1,938.4	887.1	63.2	823.9	1,051.3	322.0	115.4	520.7	93.2
1982	1,773.9	819.7	50.4	769.3	954.2	311.1	72.1	495.5	75.6
1983	1,704.5	751.1	48.4	702.7	953.4	309.6	83.4	487.1	73.1
1984	1,832.6	803.3	58.8	744.6	1,029.3	307.7	98.0	542.5	81.1
1985	1,785.0	774.3	51.3	723.0	1,010.7	309.8	92.0	534.7	74.3
1986	1,870.5	837.2	45.8	791.4	1,033.2	308.0	87.4	560.5	77.4
1987	1,962.8	891.0	45.9	845.1	1,071.8	323.5	96.5	569.8	82.0
1988	2,082.9	976.2	52.5	923.7	1,106.6	325.2	109.7	588.1	83.7
1989	2,135.2	1,037.9	54.8	983.1	1,097.3	302.0	109.1	606.0	80.2
1990	2,159.3	1,041.6	50.5	991.1	1,117.8	298.6	110.2	622.5	86.4
1991	2,087.6	1,013.6	41.8	971.8	1,074.0	294.5	103.4	600.4	75.6
1992	2,127.9	1,037.5	45.5	992.0	1,090.4	285.1	107.4	621.0	76.8
1993	2,123.3	1,060.0	43.6	1,016.4	1,063.2	271.7	109.8	607.3	74.4
1994	2,208.8	1,115.7	50.1	1,065.6	1,093.1	277.0	114.8	618.4	82.9
1995	2,233.5	1,147.4	51.9	1,095.5	1,086.2	266.6	116.1	620.3	83.1
1996	2,276.7	1,183.4	56.4	1,127.0	1,093.4	267.4	114.9	++622.1	++89.0

* Based on distance transported on Great Lakes and St. Lawrence River to International Boundary at St. Regis, Quebec, Canada

** Based on distance transported on United States Waterways from entrance channels to ports and waterways.

*** Excludes intraterritory traffic for which ton-miles were not compiled.

+ An error in the routing network caused the coastal port foreign ton-mile totals to be slightly inflated for calendar years 1990-1993. The corrections are reflected in these revised totals. Ton-miles for individual ports were not affected.

++ Beginning in 1996, fish was excluded.

*Table 1-4: TOTAL WATERBORNE COMMERCE, 1977-1996
TON-MILES, SHORT TONS AND AVERAGE HAUL BY TYPE OF TRAFFIC
(continued)*

Year	Grand Total	Foreign			Domestic				
		Total	Great Lakes Ports	Coastal Ports	Total	Coastwise	Lakewise	Internal	Intraport
Average Haul*** (miles)									
1977	363.6	100.0	545.6	64.4	618.0	1,384.8	480.5	381.7	15.1
1978	459.9	106.8	596.4	67.3	771.6	1,769.7	534.7	391.5	14.9
1979	450.2	103.8	585.0	65.2	770.0	1,747.1	543.1	405.8	15.1
1980	509.2	102.3	555.8	70.4	858.4	1,914.8	536.4	405.0	16.9
1981	528.1	106.2	558.4	71.5	884.0	1,971.4	538.5	444.0	14.1
1982	543.9	95.7	539.1	66.6	929.0	2,034.0	494.2	438.0	14.7
1983	580.3	92.7	502.1	64.4	964.6	2,098.4	516.4	463.2	15.0
1984	527.4	98.4	548.7	62.5	862.5	1,930.5	508.0	448.0	14.3
1985	540.5	92.9	529.5	61.9	883.5	1,972.2	523.8	435.2	14.8
1986	505.2	85.4	528.8	59.7	845.3	1,885.9	494.5	442.7	15.5
1987	493.3	81.9	479.1	60.3	835.4	1,813.9	519.0	451.6	14.4
1988	464.9	82.6	465.8	60.8	804.3	1,727.0	530.3	457.5	14.8
1989	426.8	92.3	494.5	69.7	743.2	1,602.1	534.5	449.1	14.9
1990	+431.7	+94.7	482.2	+74.9	745.7	1,604.4	553.1	469.7	12.6
1991	+449.6	+89.1	409.2	+75.3	789.9	1,704.8	535.0	483.0	12.8
1992	+446.1	+89.3	462.2	+72.2	785.7	1,761.7	519.4	479.3	12.4
1993	+415.7	+87.7	598.2	+65.8	742.7	1,650.3	513.8	467.5	12.4
1994	411.7	84.7	564.5	62.1	745.5	1,651.8	507.6	481.5	15.6
1995	409.4	92.9	610.4	68.4	743.6	1,651.6	514.1	493.8	16.2
1996	382.2	89.2	607.9	63.2	699.4	1,526.2	507.8	477.1	16.6

+ An error in the routing network caused the coastal port foreign ton-mile totals to be slightly inflated for calendar years 1990-1993. The corrections are reflected in these revised totals. Ton-miles for individual ports were not affected.

Figure 1-3
TOTAL WATERBORNE COMMERCE, 1977-1996
BY COMMODITY GROUP
(million short tons)

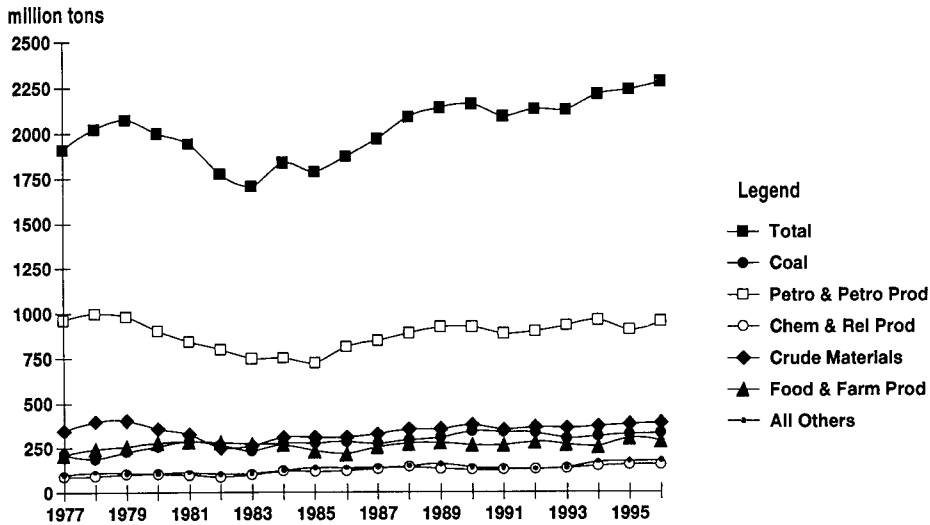


Table 1-5: TOTAL WATERBORNE COMMERCE, 1977-1996
BY COMMODITY GROUP
(million short tons)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	1,908.2	2,021.3	2,073.8	1,998.9	1,941.6	1,776.7	1,707.7	1,836.0	1,788.4	1,874.4
Coal	212.0	185.9	227.4	256.4	284.6	263.1	229.8	271.8	273.9	283.9
Petro & Petro Prod	961.0	997.0	980.8	903.2	842.4	799.6	748.5	753.5	726.4	815.6
Chem & Rel Prod	85.8	89.3	99.4	101.3	94.8	84.7	96.7	115.1	114.3	118.6
Crude Materials	344.6	396.5	403.5	356.9	325.2	249.2	260.0	307.1	307.1	308.4
Primary Manuf Goods	59.7	65.6	64.0	58.5	61.2	51.3	56.4	69.3	76.9	76.0
Food & Farm Prod	209.4	242.5	257.0	278.3	285.6	279.9	270.3	268.3	231.0	215.2
All Manuf Equip	20.1	23.5	22.7	23.6	23.7	21.2	23.9	25.1	29.8	31.4
Other	15.8	21.1	18.9	20.7	24.0	27.7	22.1	25.8	29.1	25.5
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Total	1,967.5	2,088.0	2,140.4	2,163.9	2,092.1	2,132.1	2,128.2	2,214.8	2,240.4	2,284.1
Coal	271.3	292.2	304.8	339.9	336.8	332.2	300.4	314.1	324.5	328.7
Petro & Petro Prod	847.7	887.7	922.7	923.5	886.0	899.6	930.6	961.3	907.1	954.4
Chem & Rel Prod	129.0	138.8	127.8	123.8	125.1	128.7	131.6	146.9	152.9	152.3
Crude Materials	327.1	352.0	353.2	374.9	348.9	364.0	360.6	369.3	381.7	388.7
Primary Manuf Goods	76.5	79.5	77.8	76.0	71.8	70.1	76.8	105.0	106.3	108.9
Food & Farm Prod	254.1	273.4	276.0	267.5	263.9	280.4	269.3	225.8	303.2	*284.9
All Manuf Equip	33.6	33.8	38.4	42.2	43.6	49.0	51.1	54.9	57.8	59.0
Other	28.2	30.5	39.7	16.5	16.0	8.0	7.9	7.3	6.9	7.2

* Beginning in 1996, fish was excluded for internal and intraport domestic traffic.

Figure 1-4
FOREIGN WATERBORNE COMMERCE, 1977-1996
IMPORTS AND EXPORTS
 (million short tons)

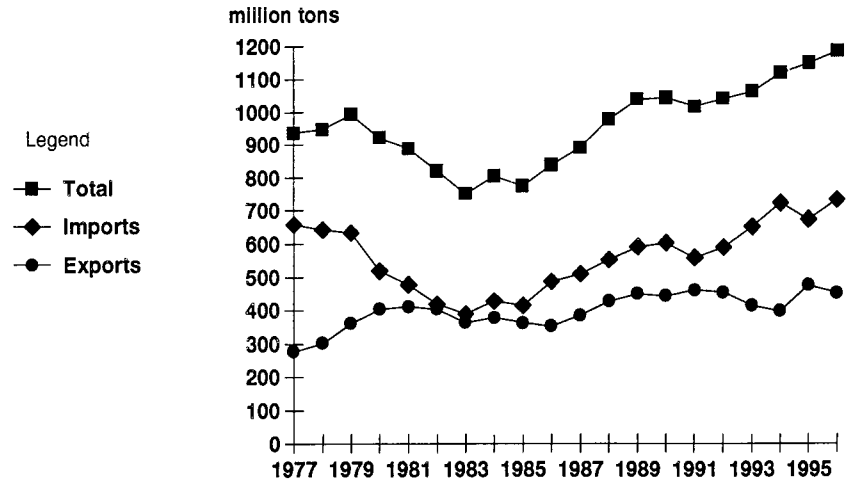


Table 1-6: FOREIGN WATERBORNE COMMERCE, 1977-1996
IMPORTS AND EXPORTS
 (million short tons)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	935.3	946.1	993.4	921.4	887.1	819.7	751.1	803.3	774.3	837.2
Imports	658.1	643.2	633.0	517.5	477.2	416.6	387.8	427.1	412.7	486.1
Exports	277.1	302.9	360.4	403.9	409.9	403.1	363.3	376.2	361.6	351.2

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Total	891.0	976.2	1,037.9	1,041.6	1,013.6	1,037.5	1,060.0	1,115.7	1,147.4	1,183.4
Imports	507.7	549.9	589.5	600.0	555.4	586.7	648.8	719.5	672.7	732.6
Exports	383.3	426.3	448.4	441.6	458.2	450.8	411.3	396.2	474.7	450.8

Figure 1-5
FOREIGN WATERBORNE COMMERCE, 1977-1996
TOTAL, OVERSEAS AND GREAT LAKES CANADIAN TRAFFIC
 (million short tons)

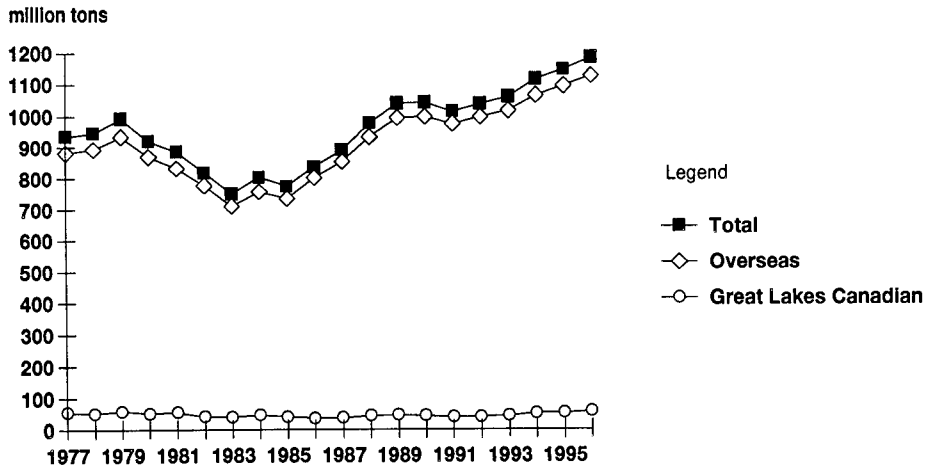


Table 1-7: FOREIGN WATERBORNE COMMERCE, 1977-1996
TOTAL, OVERSEAS AND GREAT LAKES CANADIAN TRAFFIC
 (million short tons)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	935.3	946.1	993.4	921.4	887.1	819.7	751.1	803.3	774.3	837.2
Overseas	882.1	895.2	936.0	870.8	833.3	778.5	711.3	758.1	734.7	802.4
Great Lakes Canadian	53.2	50.9	57.4	50.6	53.8	41.2	39.9	45.2	39.6	34.8

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Total	891.0	976.2	1,037.9	1,041.6	1,013.6	1,037.5	1,060.0	1,115.7	1,147.4	1,183.4
Overseas	854.2	932.8	992.4	997.5	976.3	997.5	1,016.4	1,065.6	1,095.5	1,127.0
Great Lakes Canadian	36.8	43.4	45.5	44.1	37.3	39.9	43.6	50.1	51.9	56.4

Figure 1-6
 DOMESTIC WATERBORNE COMMERCE,
 1977-1996
 BY TYPE OF TRAFFIC
 (million short tons)

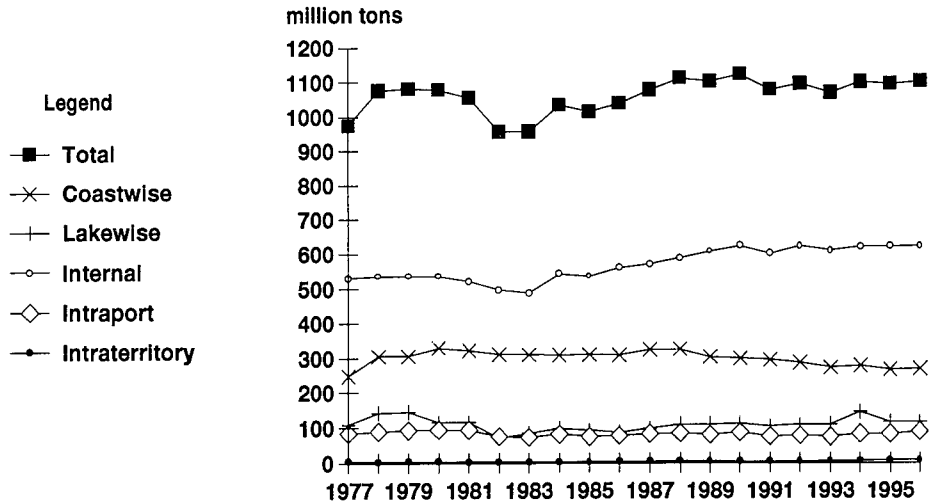


Table 1-8: DOMESTIC WATERBORNE COMMERCE, 1977-1996
 BY TYPE OF TRAFFIC
 (million short tons)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	973.0	1,075.3	1,080.3	1,077.5	1,054.5	957.0	956.5	1,032.7	1,014.1	1,037.2
Coastwise	248.1	305.3	304.7	329.6	322.0	311.1	309.6	307.7	309.8	308.0
Lakewise	109.1	142.7	143.6	115.1	115.4	72.1	83.4	98.0	92.0	87.4
Internal	528.7	534.5	535.0	535.0	520.7	495.5	487.1	542.5	534.7	560.5
Inraport	83.4	89.5	93.1	94.2	93.2	75.6	73.1	81.1	74.3	77.4
Intraterritory	3.7	3.3	4.0	3.6	3.1	2.8	3.2	3.4	3.4	4.0

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Total	1,076.5	1,111.8	1,102.5	1,122.3	1,078.6	1,094.6	1,068.2	1,099.0	1,093.0	1,100.7
Coastwise	323.5	325.2	302.0	298.6	294.5	285.1	271.7	277.0	266.6	267.4
Lakewise	96.5	109.7	109.1	110.2	103.4	107.4	109.9	114.8	116.1	114.9
Internal	569.8	588.1	606.0	622.6	600.4	621.0	607.3	618.4	620.3	*622.1
Inraport	82.0	83.7	80.2	86.4	75.6	76.8	74.4	82.9	83.1	*89.0
Intraterritory	4.7	5.1	5.2	4.5	4.6	4.2	5.0	5.9	6.9	7.3

* Beginning in 1996, fish was excluded.

Figure 1-7
 DOMESTIC WATERBORNE COMMERCE, 1977-1996
 TON-MILES BY TYPE OF TRAFFIC
 (billion short ton-miles)

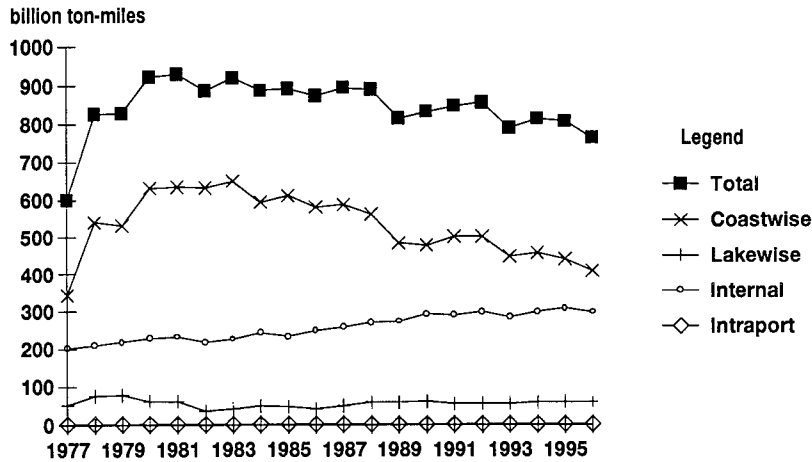


Table 1-9: DOMESTIC WATERBORNE COMMERCE, 1977-1996
 TON-MILES BY TYPE OF TRAFFIC
 (billion short ton-miles)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	599.0	827.3	828.8	921.8	929.4	886.5	919.6	887.7	893.0	873.4
Coastwise	343.5	540.4	532.3	631.1	634.8	632.7	649.7	593.9	611.0	580.9
Lakewise	52.4	76.3	78.0	61.7	62.1	35.6	43.1	49.8	48.2	43.2
Internal	201.8	209.3	217.1	227.3	231.2	217.0	225.6	242.9	232.7	248.1
Intraport	1.3	1.3	1.4	1.6	1.3	1.1	1.1	1.2	1.1	1.2

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Total	895.4	890.0	815.5	833.5	848.4	856.7	789.7	814.9	807.7	764.7
Coastwise	586.8	561.6	483.9	479.1	502.1	502.3	448.4	457.6	440.3	408.1
Lakewise	50.1	58.2	58.3	60.9	55.3	55.8	56.4	58.3	59.7	58.3
Internal	257.3	269.0	272.2	292.4	290.0	297.6	283.9	297.8	306.3	296.8
Intraport	1.2	1.2	1.2	1.1	1.0	1.0	0.9	1.3	1.3	1.5

Figure 1-8
 DOMESTIC WATERBORNE COMMERCE, 1977-1996
 AVERAGE HAUL BY TYPE OF TRAFFIC
 (miles per short ton)

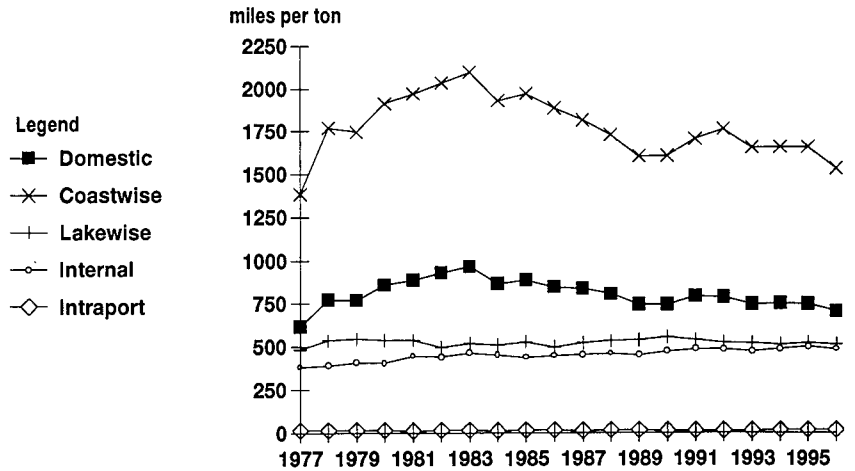


Table 1-10: DOMESTIC WATERBORNE COMMERCE, 1977-1996
 AVERAGE HAUL BY TYPE OF TRAFFIC
 (miles per short ton)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Domestic	618.0	771.6	770.0	858.4	884.0	929.0	964.6	862.5	883.5	845.3
Coastwise	1,384.8	1,769.7	1,747.1	1,914.8	1,971.4	2,034.0	2,098.4	1,930.5	1,972.2	1,885.9
Lakewise	480.5	534.7	543.1	536.4	538.5	494.2	516.4	508.0	523.8	494.5
Internal	381.7	391.5	405.8	405.0	444.0	438.0	463.2	448.0	435.2	442.7
Intraport	15.1	14.9	15.1	16.9	14.1	14.7	15.0	14.3	14.8	15.5

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Domestic	835.4	804.3	743.2	745.7	789.9	785.7	742.7	745.5	743.6	699.4
Coastwise	1,813.9	1,727.0	1,602.1	1,604.4	1,704.8	1,761.7	1,650.4	1,651.8	1,651.6	1,526.2
Lakewise	519.0	530.3	534.5	553.1	535.0	519.4	514.0	507.6	514.1	507.8
Internal	451.6	457.5	449.1	469.6	483.0	479.3	467.5	481.5	493.8	477.1
Intraport	14.4	14.8	14.9	12.6	12.8	12.4	12.4	15.6	16.2	16.6

Figure 1-9
DOMESTIC WATERBORNE COMMERCE, 1977-1996
BY COMMODITY GROUP
(million short tons)

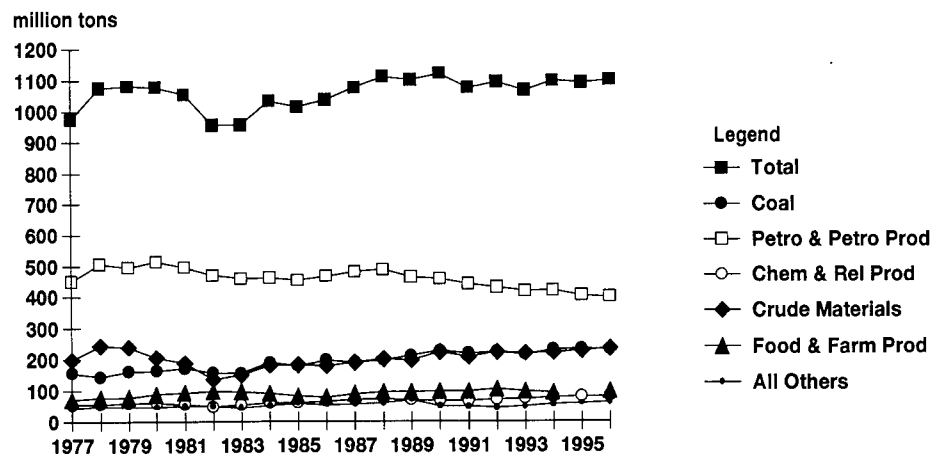


Table 1-11: DOMESTIC WATERBORNE COMMERCE, 1977-1996
BY COMMODITY GROUP
(million short tons)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	973.0	1,075.3	1,080.3	1,077.5	1,054.5	957.0	956.5	1,032.7	1,014.1	1,037.2
Coal	156.3	143.8	160.5	164.1	171.5	156.5	155.5	189.5	179.8	196.7
Petro & Petro Prod	449.3	506.2	495.4	513.4	495.2	469.2	458.0	460.6	453.5	466.8
Chem & Rel Prod	54.4	55.9	60.6	59.5	56.3	47.5	52.8	60.1	59.7	63.7
Crude Materials	198.5	243.6	238.8	205.4	187.4	136.3	149.9	180.5	181.4	179.5
Primary Manuf Goods	24.2	23.8	24.1	22.4	23.4	18.8	20.1	22.9	25.2	24.8
Food & Farm Prod	71.1	76.5	78.5	88.7	93.3	98.3	95.9	91.2	82.1	77.8
All Manuf Equip	4.2	5.3	4.3	4.3	4.1	3.4	3.0	3.1	4.3	3.4
Other	19.2	25.6	22.5	24.1	23.2	27.0	21.3	24.9	28.1	24.5

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Total	1,076.5	1,111.8	1,102.5	1,122.3	1,078.6	1,094.6	1,068.2	1,099.0	1,093.0	1,100.7
Coal	190.6	196.8	210.9	227.1	219.8	223.5	214.7	231.3	223.5	229.9
Petro & Petro Prod	480.3	487.2	463.5	457.7	440.7	429.4	416.9	420.8	403.6	398.5
Chem & Rel Prod	70.3	73.3	68.6	67.4	65.4	70.1	72.8	78.5	79.4	80.2
Crude Materials	189.2	200.5	196.2	222.4	206.7	223.0	218.6	220.9	226.4	233.2
Primary Manuf Goods	24.3	24.6	24.9	25.5	25.4	25.8	28.5	35.7	36.8	37.7
Food & Farm Prod	90.2	95.3	94.7	98.6	98.2	105.3	98.3	93.3	103.4	*98.0
All Manuf Equip	4.4	5.3	5.3	8.1	8.1	10.6	11.6	12.5	14.6	17.2
Other	27.1	28.9	38.4	15.5	14.4	6.9	6.8	5.8	5.5	6.0

* Beginning in 1996, fish was excluded for internal and intraport domestic traffic.

*Table 1-12: DOMESTIC COMMERCE, 1995-1996**
 COMPARED BY TYPE OF TRAFFIC
 BARGE AND SELF-PROPELLED VESSELS
 (million short tons)

	1995	1996	% Change
Domestic Traffic	1,091.4	1,100.7	0.9
Coastwise	266.6	267.4	0.3
Lakewise	116.1	114.9	-1.1
Internal	618.7	622.1	0.5
Inraport	83.0	89.0	7.2
Intraterritory	6.9	7.3	6.7
Barge Traffic	786.5	802.3	2.0
Coastwise	100.9	106.6	5.7
Lakewise	8.5	8.6	1.7
Internal	592.5	595.1	0.4
Inraport	79.8	86.0	7.7
Intraterritory	4.8	6.0	23.7
Self-Propelled Traffic	304.8	298.4	-2.1
Coastwise	165.7	160.8	-3.0
Lakewise	107.6	106.2	-1.3
Internal	26.3	27.0	2.9
Inraport	3.2	3.0	-5.8
Intraterritory	2.0	1.4	-33.5

*Beginning with calendar year 1996, fish was excluded for internal and inraport domestic traffic. Therefore, for the percent change comparison, the 1995 figures in this table have been adjusted to also exclude the internal and inraport domestic fish traffic.

Figure 1-10
 DOMESTIC COMMERCE, 1996
 COMPARED BY TYPE OF TRAFFIC, BARGE AND SELF-PROPELLED VESSELS
 (million short tons and percentage of short tons)

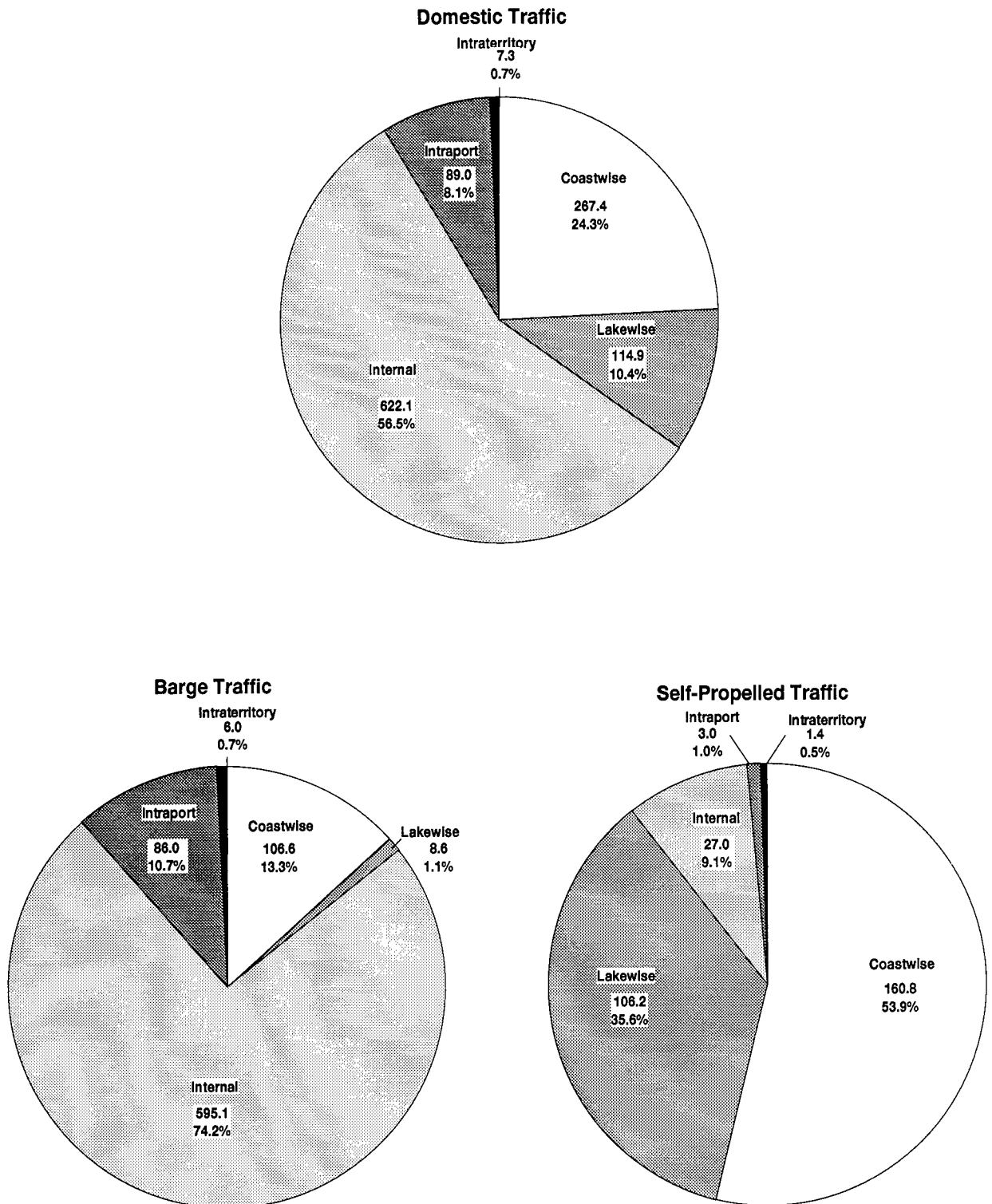


Table 1-13: WATERBORNE TRADE WITH NAFTA PARTNERS, 1996
 TONNAGE AND PERCENT OF TOTAL U.S. WATERBORNE IMPORTS AND EXPORTS
 (short tons)

Commodity	Canada				Mexico			
	Imports from	%	Exports to	%	Imports from	%	Exports to	%
Total, all commodities	56,011,920	7.6	37,133,559	8.2	81,091,158	11.1	14,760,859	3.3
Total coal	651,283	7.4	12,961,443	14.4	---	---	440,178	0.5
1100 coal lignite	567,838	9.1	12,488,366	14.0	---	---	410,381	0.5
1200 coal coke	83,445	3.3	473,077	44.6	---	---	29,797	2.8
Total petroleum and petroleum products	15,428,740	3.1	3,800,250	6.8	65,508,563	13.1	4,195,309	7.5
Subtotal crude petroleum	4,195,753	1.0	353	0.0	62,577,391	15.6	43,468	2.2
2100 crude petroleum	4,195,753	1.0	353	0.0	62,577,391	15.6	43,468	2.2
Subtotal petroleum products	11,232,987	11.4	3,799,897	7.0	2,931,172	3.0	4,151,841	7.7
2211 gasoline	4,971,866	25.4	518,607	12.2	30,278	0.2	1,936,265	45.4
2221 kerosene	204,804	5.2	191,799	8.2	212,336	5.4	---	---
2330 distillate fuel oil	3,756,397	23.3	254,923	4.1	394,343	2.4	628,937	10.1
2340 residual fuel oil	1,453,393	5.2	1,171,454	12.9	131,662	0.5	1,355,026	15.0
2350 lube oil & greases	77,581	0.9	132,075	6.5	177,431	2.0	15,720	0.8
2410 petro. jelly & waxes	32	0.0	---	---	685	1.0	3,009	2.5
2429 naphtha & solvents	108,687	0.8	1,324	0.0	1,367,471	9.7	17,912	0.5
2430 asphalt, tar & pitch	155,318	25.8	196,138	5.5	9,284	1.5	140,154	3.9
2540 petroleum coke	489,440	18.5	1,333,577	6.5	224,694	8.5	51,124	0.2
2640 liquid natural gas	15,469	0.4	---	---	382,988	8.9	3,694	0.2
Total chemicals and related products	3,260,579	13.3	999,576	2.1	1,366,779	5.6	1,673,868	3.5
Subtotal fertilizers	882,312	18.1	343,431	2.4	606,109	12.4	299,198	2.1
3110 nitrogenous fert.	69,222	2.6	102,243	4.3	598,914	22.1	57,179	2.4
3120 phosphatic fert.	22,262	14.5	1,101	0.1	---	---	8,487	1.1
3130 potassic fert.	789,950	55.5	4,505	0.4	---	---	27,231	2.7
3190 fert. & mixes nec	878	0.1	235,582	2.3	7,195	1.2	206,301	2.0
Subtotal other chemicals and related products	2,378,267	12.1	656,245	2.0	760,670	3.9	1,374,670	4.1
3211 acyclic hydrocarbons	---	---	4,592	0.7	10,258	3.1	214,071	31.6
3212 benzene & toluene	171,788	30.5	78,144	44.3	50,649	9.0	---	---
3219 other hydrocarbons	420,681	45.1	2,687	0.1	6,735	0.7	527,973	10.4
3220 alcohols	673,066	19.8	11,807	0.5	89,565	2.6	137,449	5.9
3230 carboxylic acids	542	0.1	6	0.0	133,259	18.3	11,528	0.7
3240 nitrogen func. comp.	3,876	1.3	59	0.0	1,464	0.5	15,911	1.0
3250 organo-inorganic comp.	45	0.0	222	0.0	7	0.0	649	0.1
3260 organic comp. nec	396,994	10.9	2,587	0.2	49,450	1.4	228,209	16.2
3271 sulphur (liquid)	---	---	9,315	3.4	---	---	32,634	11.9
3272 sulphuric acid	319,471	38.2	---	---	156,231	18.7	---	---
3273 ammonia	218,211	6.2	---	---	196,401	5.6	16,186	2.8
3274 sodium hydroxide	18,675	3.3	450,994	14.0	6	0.0	46,918	1.5
3275 inorg. elem. oxides, & halogen salts	21,580	3.3	1,762	0.2	1,421	0.2	50,671	4.4
3276 metallic salts	99,214	12.1	88,100	1.8	15,836	1.9	3,652	0.1
3279 inorganic chem. nec	216	0.1	21	0.0	44	0.0	118	0.3
3281 radioactive material	---	---	---	---	---	---	---	---
3282 pigments & paints	3,312	1.9	104	0.0	346	0.2	3,670	0.7
3283 coloring mat. nec	137	0.1	17	0.0	226	0.2	76	0.1
3284 medicines	186	0.2	56	0.0	378	0.5	231	0.2
3285 perfumes & cleansers	453	0.3	297	0.0	3,278	1.8	1,856	0.3
3286 plastics	6,032	0.4	4,233	0.1	32,978	2.3	17,745	0.3
3291 pesticides	169	0.3	244	0.1	129	0.3	462	0.3
3292 starches, gluten, glue	554	0.2	16	0.0	143	0.0	365	0.1
3293 explosives	381	0.6	225	1.2	65	0.1	62	0.3
3297 chemical additives	68	0.1	84	0.0	52	0.1	1,616	0.2
3298 wood & resin chem.	19,204	39.1	---	---	135	0.3	492	0.1
3299 chem. products nec	3,412	1.1	673	0.1	11,614	3.6	62,126	7.4
Total crude materials, inedible except fuels	30,431,785	34.0	14,998,722	22.7	11,275,048	12.6	519,972	0.8
Subtotal forest products, wood and chips	943,276	25.9	353,252	1.5	45,424	1.2	2,438	0.0
4110 rubber & gums	35	0.0	61	0.5	7,725	0.6	189	1.6
4150 fuel wood	102,127	89.6	82	0.1	20	0.0	---	---
4161 wood chips	105,337	22.4	50,981	0.5	---	---	21	0.0
4170 wood in the rough	94,628	49.0	301,349	3.1	667	0.3	1,572	0.0
4189 lumber	638,782	45.0	742	0.0	8,985	0.6	522	0.0
4190 forest products nec	2,367	1.0	37	0.1	28,027	11.5	134	0.3
Subtotal pulp and waste paper	59,286	6.3	35,537	0.3	96	0.0	490	0.0
4225 pulp & waste paper	59,286	6.3	35,537	0.3	96	0.0	490	0.0
Subtotal soil, sand, gravel, rock and stone	11,951,569	50.3	5,671,764	68.9	8,049,032	33.9	87	0.0
4310 building stone	10,947	17.8	10,653	7.5	67	0.1	65	0.0
4322 limestone	2,770,888	68.0	4,191,797	98.4	215,515	5.3	---	---
4323 gypsum	5,777,733	65.7	170,843	72.6	1,859,514	21.1	---	---
4327 phosphate rock	2,976	0.5	5,383	0.3	---	---	---	---
4331 sand & gravel	3,389,025	33.3	1,293,088	69.3	5,973,936	58.7	22	0.0
Subtotal iron ore and scrap	12,282,259	57.4	6,566,349	48.2	8	0.0	431,994	3.2
4410 iron ore	11,893,875	58.0	6,559,391	99.9	2	0.0	---	---
4420 iron & steel scrap	388,384	42.7	6,958	0.1	6	0.0	431,994	6.1
Subtotal marine shells	2	0.1	---	---	1	0.0	45	0.7
4515 marine shells	2	0.1	---	---	1	0.0	45	0.7
Subtotal non-ferrous ores and scrap	216,320	1.1	1,158,736	33.0	72,071	0.4	3,066	0.1
4630 copper ore	23	0.0	46	0.0	3	0.0	---	---
4650 aluminum ore	81,622	0.5	1,150,612	83.2	22,009	0.1	2,826	0.2

Table 1-13: WATERBORNE TRADE WITH NAFTA PARTNERS, 1996 (continued)
 TONNAGE AND PERCENT OF TOTAL U.S. WATERBORNE IMPORTS AND EXPORTS
 (short tons)

Commodity	Canada				Mexico			
	Imports from	%	Exports to	%	Imports from	%	Exports to	%
4670 manganese ore	---	---	---	---	45,771	8.6	---	---
4680 non-ferrous scrap	13,605	2.2	145	0.0	992	0.2	217	0.0
4690 non-ferrous ores nec	121,070	8.2	7,933	0.6	3,296	0.2	23	0.0
Subtotal sulphur, clay and salt	659,385	36.7	355,562	7.4	525,188	29.3	81,156	1.7
4741 sulphur, (dry)	---	---	---	---	522,859	76.2	78,868	13.6
4782 clay & refrac. mat.	659,385	59.5	355,562	8.4	2,329	0.2	2,288	0.1
Subtotal slag	184,570	32.3	18,465	67.2	12,651	2.2	---	---
4860 slag	184,570	32.3	18,465	67.2	12,651	2.2	---	---
Subtotal other non-metal. min.	4,135,118	23.5	839,057	55.5	2,570,577	14.6	696	0.0
4900 non-metal. min. nec	4,135,118	23.5	839,057	55.5	2,570,577	14.6	696	0.0
Total primary manufactured goods	5,160,477	9.3	231,365	1.5	2,118,670	3.8	93,180	0.6
Subtotal paper products	1,190,180	37.0	5,955	0.1	2,894	0.1	47,886	0.5
5110 newsprint	1,033,876	93.6	97	0.0	833	0.1	3,352	0.3
5120 paper & paperboard	148,921	8.0	5,236	0.1	184	0.0	40,696	0.6
5190 paper products nec	7,383	2.9	622	0.1	1,877	0.7	3,838	0.6
Subtotal lime, cement and glass	3,635,816	22.4	219,325	11.8	502,392	3.1	2,860	0.2
5210 lime	2,487	6.6	---	---	34,947	93.0	---	---
5220 cement & concrete	3,626,197	28.9	216,429	54.6	452,572	3.6	---	---
5240 glass & glass prod.	372	0.1	992	0.2	2,327	0.4	734	0.1
5290 misc. mineral prod.	6,760	0.2	1,904	0.2	12,546	0.4	2,126	0.2
Subtotal primary iron and steel products	213,312	0.7	2,802	0.1	1,593,319	5.4	36,159	1.5
5312 pig iron	121,832	2.9	19	0.0	21,495	0.5	131	0.3
5315 ferro alloys	662	0.0	22	0.0	46,825	2.9	45	0.1
5320 i&s primary forms	25,396	0.4	113	0.1	1,339,399	18.5	85	0.0
5330 i&s plates & sheets	60,379	0.6	1,604	0.1	9,436	0.1	976	0.1
5360 i&s bars & shapes	342	0.0	23	0.0	109,942	3.5	29,524	11.9
5370 i&s pipe & tube	450	0.0	840	0.1	64,094	3.8	5,255	0.8
5390 primary i&s nec	4,251	0.7	181	0.6	2,128	0.3	143	0.4
Subtotal primary non-ferrous metal products	52,492	1.0	2,766	0.1	19,223	0.4	5,293	0.3
5421 copper	154	0.0	73	0.0	444	0.1	138	0.0
5422 aluminum	46,648	5.0	218	0.0	434	0.0	1,619	0.2
5429 smelted prod. nec	409	0.1	84	0.0	266	0.1	64	0.0
5480 fab. metal products	5,281	0.2	2,391	0.3	18,079	0.6	3,472	0.4
Subtotal primary wood products	58,677	4.0	517	0.1	842	0.1	982	0.1
5540 primary wood prod.	58,677	4.0	517	0.1	842	0.1	982	0.1
Total food and farm products	986,596	3.9	3,974,592	2.5	603,925	2.4	7,776,578	4.8
Subtotal fish	12,014	1.4	27,738	2.9	9,562	1.1	666	0.1
6134 fish (not shellfish)	11,068	2.2	27,383	3.3	5,761	1.1	583	0.1
6136 shellfish	946	0.3	355	0.3	3,801	1.0	83	0.1
Subtotal grain	802,283	64.6	2,401,359	2.5	328	0.0	6,337,989	6.6
6241 wheat	207,389	99.2	1,262,297	3.8	---	---	1,065,890	3.2
6344 corn	1,365	3.6	1,138,715	2.1	---	---	4,404,103	8.1
6442 rice	89	0.0	307	0.0	328	0.1	92,833	3.6
6443 barley & rye	433,429	99.7	---	---	---	---	---	---
6445 oats	160,011	62.4	---	---	---	---	---	---
6447 sorghum grains	---	---	40	0.0	---	---	775,163	19.8
Subtotal oilseeds	21,607	10.4	1,491,819	5.6	5,232	2.5	1,120,605	4.2
6521 peanuts	2	0.0	---	---	90	0.2	209	0.2
6522 soybeans	177	6.9	1,460,454	5.5	---	---	1,090,974	4.1
6534 flaxseed	---	---	---	---	---	---	---	---
6590 oilseeds nec	21,428	13.2	31,365	13.3	5,142	3.2	29,422	12.5
Subtotal vegetable products	62,823	2.8	2,085	0.1	19,276	0.9	160,497	4.2
6653 vegetable oils	761	0.1	772	0.0	3,876	0.4	159,207	9.9
6654 vegetables & prod.	62,062	5.2	1,313	0.1	15,400	1.3	1,290	0.1
Subtotal processed grain and animal feed	38,733	5.1	1,382	0.0	7,095	0.9	12,619	0.1
6746 wheat flour	1,050	17.0	---	---	2	0.0	33	0.0
6747 grain mill products	11,413	2.9	784	0.1	2,477	0.6	299	0.0
6781 hay & fodder	4,027	47.4	---	---	---	---	---	---
6782 animal feed, prep.	22,243	6.3	598	0.0	4,616	1.3	12,287	0.1
Subtotal other agricultural products	49,136	0.2	50,209	0.3	562,432	2.8	146,202	0.9
6811 meat, fresh, frozen	7,753	1.3	793	0.0	397	0.1	5,609	0.2
6817 meat, prepared	1,598	1.2	185	0.1	116	0.1	494	0.2
6822 dairy products	2,891	1.3	439	0.1	169	0.1	6,082	2.0
6835 fish, prepared	5,130	1.8	1,291	0.7	379	0.1	67	0.0
6838 tallow, animal oils	2	0.0	21	0.0	---	---	85,674	7.7
6839 animals & prod. nec	473	0.3	363	0.0	217	0.1	2,118	0.2
6856 bananas & plantains	580	0.0	---	---	87,912	1.9	---	---
6857 fruit & nuts nec	1,309	0.1	924	0.0	13,265	0.8	2,211	0.1
6858 fruit juices	3,815	0.2	2,670	0.3	16,589	1.1	272	0.0
6861 sugar	3,889	0.1	2,489	1.1	53,729	1.8	20	0.0
6865 molasses	---	---	21,837	7.6	280,608	20.4	27,726	9.6
6871 coffee	2,947	0.3	1,174	1.0	64,220	6.1	299	0.2
6872 cocoa beans	1	0.0	3	0.0	4,483	0.6	1,770	15.9
6885 alcoholic beverages	7,695	0.3	10,373	1.0	6,131	0.3	5,122	0.5
6888 water & ice	2,119	0.5	279	1.0	58	0.0	60	0.2
6889 food products nec	4,975	0.6	6,727	0.4	29,983	3.3	4,586	0.3
6891 tobacco & products	461	0.1	73	0.0	3,332	0.9	36	0.0
6893 cotton	4	0.0	---	---	8	0.0	3,509	0.2
6894 natural fibers nec	---	---	---	---	99	0.4	---	---

Table 1-13: WATERBORNE TRADE WITH NAFTA PARTNERS, 1996 (continued)
 TONNAGE AND PERCENT OF TOTAL U.S. WATERBORNE IMPORTS AND EXPORTS
 (short tons)

Commodity	Canada				Mexico			
	Imports from	%	Exports to	%	Imports from	%	Exports to	%
6899 farm products nec	3,494	4.1	568	0.3	737	0.9	547	0.3
Total all manufactured equipment, machinery and products	64,136	0.2	125,577	1.0	190,269	0.7	51,041	0.4
7110 machinery (not elec)	15,409	0.3	6,775	0.2	3,986	0.1	15,698	0.5
7120 electrical machinery	3,063	0.1	106,242	5.7	12,739	0.3	6,209	0.3
7210 vehicles & parts	21,441	0.4	871	0.0	86,467	1.7	1,387	0.1
7220 aircraft & parts	10	0.0	16	0.1	6	0.0	43	0.2
7230 ships & boats	1,116	4.1	5,134	4.6	102	0.4	644	0.6
7300 ordnance & access.	8	0.0	---	---	---	---	5	0.0
7400 manufac. wood prod.	6,543	1.4	245	0.1	1,394	0.3	97	0.0
7500 textile products	5,118	0.1	1,057	0.0	50,612	1.2	15,773	0.7
7600 rubber & plastic pr.	1,718	0.1	3,378	0.2	5,702	0.2	3,950	0.3
7900 manufac. prod. nec	9,710	0.1	1,859	0.1	29,261	0.4	7,235	0.5
Total unknown or not elsewhere classified	38,324	6.2	41,934	8.2	27,904	4.5	8,733	1.7
9900 unknown or nec	38,324	6.2	41,934	8.2	27,904	4.5	8,733	1.7

Section 2

Commodities

Table 2-1: SUMMARY OF FOREIGN AND DOMESTIC WATERBORNE COMMERCE
BY TYPE OF TRAFFIC AND COMMODITY

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1987	1,967,460	1990	2,163,854	1993	2,128,221	1996	2,284,065
1988	2,087,993	1991	2,092,108	1994	2,214,754		
1989	2,140,442	1992	2,133,310	1995	2,240,393		

Freight Traffic, 1996
(thousand short tons)

Commodity	Grand Total	Foreign		Domestic					
		Imports	Exports	Total	Coastwise	Lakewise	Internal	Intraport	Intra-Territory
Total, all commodities	2,284,065	732,592	450,794	1,100,679	267,389	114,870	622,081	89,011	7,327
Total coal	328,731	8,751	90,080	229,900	13,529	21,186	176,303	18,882	---
1100 coal lignite	320,562	6,239	89,020	225,303	13,488	20,852	172,328	18,634	---
1200 coal coke	8,169	2,512	1,060	4,598	41	333	3,975	248	---
Total petroleum and petroleum products	954,434	500,010	55,973	398,451	197,031	1,974	151,788	40,781	6,876
Subtotal crude petroleum	531,763	401,694	1,980	128,089	83,854	---	42,555	1,680	---
2100 crude petroleum	531,763	401,694	1,980	128,089	83,854	---	42,555	1,680	---
Subtotal petroleum products	422,671	98,316	53,993	270,361	113,177	1,974	109,232	39,101	6,876
2211 gasoline	119,117	19,561	4,265	95,291	52,495	283	32,574	7,154	2,785
2221 kerosene	8,036	3,912	2,338	1,787	584	1	795	405	2
2330 distillate fuel oil	84,538	16,155	6,227	62,157	28,485	436	22,222	9,940	1,075
2340 residual fuel oil	112,318	28,121	9,062	75,136	24,853	255	29,279	17,828	2,921
2350 lube oil & greases	15,903	8,869	2,028	5,006	1,891	4	2,664	446	---
2410 petro. jelly & waxes	361	70	118	172	78	---	92	1	---
2429 naphtha & solvents	22,888	14,085	3,636	5,167	436	---	3,410	1,227	93
2430 asphalt, tar & pitch	16,831	601	3,565	12,664	3,193	916	7,938	618	0
2540 petroleum coke	30,950	2,651	20,581	7,718	239	80	6,411	987	---
2640 liquid natural gas	8,875	4,292	2,172	2,411	316	1	2,064	30	0
2990 petro. products nec	2,853	---	---	2,853	607	---	1,781	465	0
Total chemicals and related products	152,272	24,596	47,474	80,201	16,218	153	52,130	11,450	251
Subtotal fertilizers	33,246	4,882	14,330	14,035	1,928	20	11,842	245	---
3110 nitrogenous fert.	11,488	2,708	2,397	6,383	340	20	5,833	190	---
3120 phosphatic fert.	2,823	153	741	1,928	313	---	1,613	3	---
3130 potassic fert.	3,641	1,424	1,024	1,192	85	---	1,084	24	---
3190 fert. & mixes nec	15,295	597	10,167	4,531	1,191	0	3,312	29	---
Subtotal other chemicals and related products	119,026	19,714	33,144	66,167	14,291	133	40,288	11,204	251
3211 acyclic hydrocarbons	3,762	328	679	2,756	7	---	1,813	936	---
3212 benzene & toluene	6,982	563	176	6,243	250	---	3,668	2,246	79
3219 other hydrocarbons	19,221	933	5,061	13,228	1,986	---	8,986	2,084	172
3220 alcohols	13,020	3,398	2,337	7,284	703	---	5,148	1,433	---
3230 carboxylic acids	4,152	727	1,695	1,731	137	---	925	668	---
3240 nitrogen func. comp.	3,389	301	1,590	1,498	13	---	1,471	14	---
3250 organo-inorganic comp.	861	285	570	6	1	---	4	1	---
3260 organic comp. nec	6,514	3,640	1,405	1,468	229	---	1,178	62	---
3271 sulphur (liquid)	8,705	0	275	8,430	3,959	---	4,350	121	---
3272 sulphuric acid	2,607	835	45	1,727	20	---	1,309	398	---
3273 ammonia	6,828	3,499	585	2,744	493	---	2,246	5	---
3274 sodium hydroxide	10,563	567	3,219	6,777	1,836	---	4,488	453	---
3275 inorg. elem., oxides, & halogen salts	3,676	664	1,148	1,864	33	0	1,033	799	---
3276 metallic salts	6,795	820	4,836	1,139	67	133	921	19	---
3279 inorganic chem. nec	611	320	46	246	2	---	244	---	---
3281 radioactive material	55	35	19	2	2	---	---	---	---
3282 pigments & paints	714	173	492	48	47	---	1	---	---
3283 coloring mat. nec	165	104	58	3	3	---	---	---	---
3284 medicines	345	75	154	117	117	---	---	---	---

Table 2-1: SUMMARY OF FOREIGN AND DOMESTIC WATERBORNE COMMERCE
 BY TYPE OF TRAFFIC AND COMMODITY
 Freight Traffic, 1996 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign		Domestic					
		Imports	Exports	Total	Coastwise	Lakewise	Internal	Intraport	Intra-Territory
3285 perfumes & cleansers	985	178	633	174	174	---	---	0	---
3286 plastics	7,252	1,411	5,710	131	109	---	22	---	---
3291 pesticides	258	50	172	37	26	0	---	11	---
3292 starches, gluten, glue	610	291	311	9	9	---	---	---	---
3293 explosives	89	65	19	5	4	---	1	---	---
3297 chemical additives	7,893	81	727	7,085	3,564	---	1,815	1,707	---
3298 wood & resin chem.	611	49	343	220	119	---	101	---	---
3299 chem. products nec	2,360	323	842	1,195	382	---	564	249	---
Total crude materials, inedible except fuels*	388,651	89,498	65,941	233,211	18,033	87,923	115,641	11,590	25
Subtotal forest products, wood and chips	45,402	3,647	22,881	18,874	1,603	1	15,440	1,829	1
4110 rubber & gums	1,226	1,209	12	5	5	---	0	---	---
4150 fuel wood	221	114	66	41	1	---	40	---	---
4161 wood chips	17,221	470	9,468	7,283	568	0	6,693	22	---
4170 wood in the rough	20,658	193	9,863	10,602	355	---	8,443	1,804	---
4189 lumber	5,621	1,419	3,423	780	617	1	159	3	1
4190 forest products nec	455	243	50	163	58	0	105	---	---
Subtotal pulp and waste paper	12,635	946	11,349	339	92	---	247	---	---
4225 pulp & waste paper	12,635	946	11,349	339	92	---	247	---	---
Subtotal soil, sand, gravel, rock and stone*	159,219	23,751	8,232	127,236	15,533	27,677	74,911	9,091	24
4310 building stone	250	62	141	47	1	---	20	26	---
4322 limestone	58,150	4,077	4,262	49,811	51	26,006	23,719	35	---
4323 gypsum	10,696	8,801	235	1,660	3	921	736	---	---
4327 phosphate rock	8,452	634	1,729	6,089	6,013	---	73	3	---
4331 sand & gravel	81,628	10,177	1,865	69,585	9,436	750	50,352	9,023	24
4333 dredged material	7	---	---	7	---	---	4	4	---
4338 soil & fill dirt	36	---	---	36	29	0	7	---	---
Subtotal iron ore and scrap	103,182	21,401	13,620	68,161	336	58,378	8,907	540	---
4410 iron ore	89,528	20,492	6,568	62,468	0	58,062	4,273	133	---
4420 iron & steel scrap	13,653	909	7,052	5,693	336	316	4,634	406	---
Subtotal marine shells	693	3	6	684	13	---	670	---	---
4515 marine shells	693	3	6	684	13	---	670	---	---
Subtotal non-ferrous ores and scrap	27,896	19,823	3,515	4,558	9	---	4,533	16	---
4630 copper ore	345	62	271	13	0	---	13	---	---
4650 aluminum ore	21,655	17,129	1,383	3,143	2	---	3,142	---	---
4670 manganese ore	1,472	534	27	912	---	---	896	16	---
4680 non-ferrous scrap	1,283	628	612	43	7	---	36	---	---
4690 non-ferrous ores nec	3,140	1,471	1,222	447	0	---	447	---	---
Subtotal sulphur, clay and salt	7,834	1,795	4,799	1,241	151	---	1,087	2	---
4741 sulphur, (dry)	1,264	686	578	0	0	---	---	---	---
4782 clay & refrac. mat.	6,570	1,109	4,220	1,241	151	---	1,087	2	---
Subtotal slag	2,268	571	27	1,670	4	791	874	0	---
4860 slag	2,268	571	27	1,670	4	791	874	0	---
Subtotal other non-metal. min.	29,522	17,561	1,512	10,449	291	1,076	8,970	111	---
4900 non-metal. min. nec	29,522	17,561	1,512	10,449	291	1,076	8,970	111	---
Total primary manufactured goods	108,935	55,291	15,927	37,718	7,668	3,237	25,796	1,016	1
Subtotal paper products	13,710	3,216	8,791	1,703	867	---	831	5	---
5110 newsprint	2,499	1,105	1,315	79	17	---	58	4	---
5120 paper & paperboard	9,956	1,854	6,850	1,251	570	---	681	0	---
5190 paper products nec	1,255	257	626	372	280	---	92	0	---
Subtotal lime, cement and glass	33,684	16,201	1,858	15,625	2,825	2,883	9,123	794	1
5210 lime	2,623	38	11	2,574	---	---	2,574	---	---

* Does not include 6.3 million short tons of waterway improvement material.

Table 2-1: SUMMARY OF FOREIGN AND DOMESTIC WATERBORNE COMMERCE
 BY TYPE OF TRAFFIC AND COMMODITY
 Freight Traffic, 1996 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign		Domestic					
		Imports	Exports	Total	Coastwise	Lakewise	Internal	Intraport	Intra-Territory
5220 cement & concrete	25,480	12,553	397	12,530	2,509	2,882	6,346	794	---
5240 glass & glass prod.	1,233	644	503	86	68	---	18	---	---
5290 misc. mineral prod.	4,348	2,967	947	435	248	1	185	1	1
Subtotal primary iron and steel products	45,678	29,307	2,342	14,030	197	354	13,277	201	---
5312 pig iron	7,880	4,163	52	3,665	0	15	3,646	3	---
5315 ferro alloys	2,711	1,625	47	1,039	---	---	1,018	21	---
5320 i&s primary forms	9,673	7,224	225	2,225	75	1	2,148	1	---
5330 i&s plates & sheets	15,903	10,799	1,116	3,988	23	269	3,621	76	---
5360 i&s bars & shapes	4,119	3,180	249	691	50	---	625	16	---
5370 i&s pipe & tube	3,972	1,701	621	1,650	27	0	1,556	68	---
5390 primary i&s nec	1,420	615	33	772	22	69	663	17	---
Subtotal primary non-ferrous metal products	13,119	5,108	1,922	6,089	3,619	0	2,454	16	0
5421 copper	831	503	294	34	13	---	20	0	---
5422 aluminum	1,801	926	677	197	20	---	177	---	---
5429 smelted prod. nec	1,635	504	179	952	6	---	947	---	---
5480 fab. metal products	8,852	3,174	772	4,906	3,580	0	1,310	16	0
Subtotal primary wood products	2,744	1,460	1,013	271	160	---	111	---	---
5540 primary wood prod.	2,744	1,460	1,013	271	160	---	111	---	---
Total food and farm products*	284,864	25,133	161,747	97,984	7,962	355	89,282	394	0
Subtotal fish*	1,951	882	965	104	104	---	---	---	---
6134 fish (not shellfish)	1,418	514	836	68	68	---	---	---	---
6136 shellfish	533	367	130	36	36	---	---	---	---
Subtotal grain	152,406	1,243	95,577	55,586	574	354	54,502	157	---
6241 wheat	46,640	209	33,602	12,829	140	323	12,303	63	---
6344 corn	94,117	38	54,575	39,503	306	---	39,115	82	---
6442 rice	4,244	305	2,610	1,329	118	---	1,209	2	---
6443 barley & rye	1,621	435	855	331	3	---	328	---	---
6445 oats	388	256	21	111	7	30	74	---	---
6447 sorghum grains	5,396	0	3,913	1,482	0	---	1,473	9	---
Subtotal oilseeds	50,097	209	26,704	23,184	89	---	23,063	31	---
6521 peanuts	182	44	124	14	14	---	1	---	---
6522 soybeans	46,177	3	26,344	19,831	5	---	19,796	30	---
6534 flaxseed	1	0	1	---	---	---	---	---	---
6590 oilseeds nec	3,736	162	236	3,338	71	---	3,266	2	---
Subtotal vegetable products	7,532	2,248	3,800	1,484	475	---	993	16	---
6653 vegetable oils	3,717	1,047	1,614	1,056	87	---	952	16	---
6654 vegetables & prod.	3,815	1,201	2,186	428	388	---	40	---	---
Subtotal processed grain and animal feed	28,170	765	18,915	8,490	688	0	7,701	101	---
6746 wheat flour	567	6	464	97	60	---	36	0	---
6747 grain mill products	1,708	399	689	620	313	0	307	---	---
6781 hay & fodder	3,189	8	3,071	109	63	---	47	---	---
6782 animal feed, prep.	22,706	352	14,691	7,663	252	---	7,310	101	---
Subtotal other agricultural products	44,709	19,787	15,786	9,136	6,021	1	3,025	89	0
6811 meat, fresh, frozen	4,527	591	3,640	297	297	---	0	---	---
6817 meat, prepared	450	136	247	67	67	---	---	---	---
6822 dairy products	604	217	299	88	88	---	---	---	---
6835 fish, prepared	550	285	173	91	31	---	59	1	---
6838 tallow, animal oils	1,138	13	1,108	18	6	---	10	2	---
6839 animals & prod. nec	1,895	187	993	715	707	---	8	---	---
6856 bananas & plantains	4,569	4,552	2	14	14	---	---	---	---
6857 fruit & nuts nec	4,564	1,673	2,533	359	358	0	0	---	---
6858 fruit juices	2,660	1,527	807	327	327	---	0	---	---
6861 sugar	5,067	3,042	218	1,807	1,304	---	503	---	---
6865 molasses	2,434	1,373	288	772	321	---	408	43	---
6871 coffee	1,186	1,050	120	15	14	---	1	---	---
6872 cocoa beans	725	700	11	13	13	---	---	---	---
6885 alcoholic beverages	4,261	2,414	1,068	779	579	---	200	---	0

* Does not include 1.7 million short tons of internal and intraport fish.

Table 2-1: SUMMARY OF FOREIGN AND DOMESTIC WATERBORNE COMMERCE
 BY TYPE OF TRAFFIC AND COMMODITY
 Freight Traffic, 1996 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign		Domestic					
		Imports	Exports	Total	Coastwise	Lakewise	Internal	Inraport	Intra-Territory
6887 groceries	854	---	---	854	829	0	19	6	0
6888 water & ice	2,174	455	29	1,690	20	0	1,632	37	---
6889 food products nec	3,532	899	1,528	1,105	938	0	166	0	0
6891 tobacco & products	1,361	376	953	32	32	---	---	---	---
6893 cotton	1,783	187	1,582	14	14	---	---	---	---
6894 natural fibers nec	31	27	4	0	0	---	---	---	---
6899 farm products nec	345	85	182	78	61	---	17	---	---
Total all manufactured equipment, machinery and products	58,997	28,697	13,144	17,166	6,890	25	9,834	248	159
7110 machinery (not elec)	16,169	4,457	3,431	8,282	274	2	7,989	16	1
7120 electrical machinery	6,412	4,332	1,874	206	195	---	10	0	---
7210 vehicles & parts	8,192	4,959	2,099	1,134	1,103	0	21	4	6
7220 aircraft & parts	51	21	28	2	2	---	1	---	---
7230 ships & boats	155	27	112	16	5	---	8	3	---
7300 ordnance & access.	148	20	117	11	6	---	5	---	---
7400 manufac. wood prod.	1,055	455	282	319	119	1	198	1	1
7500 textile products	6,568	4,164	2,168	236	193	---	43	0	---
7600 rubber & plastic pr.	4,038	2,377	1,430	232	107	---	124	0	---
7800 empty containers	142	---	---	142	---	---	142	---	---
7900 manufac. prod. nec	16,065	7,886	1,602	6,577	4,885	22	1,293	224	152
Total waste and scrap nec	5,952	---	---	5,952	1	0	1,302	4,649	---
8900 waste and scrap nec	5,952	---	---	5,952	1	0	1,302	4,649	---
Total unknown or not elsewhere classified	1,230	615	508	106	67	17	7	0	15
9900 unknown or nec	1,230	615	508	106	67	17	7	0	15

Table 2-2: SUMMARY OF DOMESTIC WATERBORNE COMMERCE, TON-MILES BY TYPE OF TRAFFIC AND COMMODITY

Comparative Statement of Traffic (million short ton-miles)

Year	Total	Year	Total	Year	Total	Year	Total
1987	895,415	1990	833,543	1993	789,657	1996	764,686
1988	890,028	1991	848,399	1994	814,919		
1989	815,549	1992	856,684	1995	807,727		

Freight Traffic, 1996 (million short ton-miles)

Commodity	Grand Total	Coastwise	Lakewise	Internal	Intraport
Total, all commodities	764,686	408,086	58,335	296,790	1,474
Total coal	96,205	8,960	11,553	75,106	578
1100 coal lignite	92,613	8,933	11,397	71,719	564
1200 coal coke	3,591	26	162	3,387	14
Total petroleum and petroleum products	359,591	322,358	636	36,092	503
Subtotal crude petroleum	202,399	197,421	---	4,959	18
2100 crude petroleum	202,399	197,421	---	4,959	18
Subtotal petroleum products	157,191	124,936	636	31,132	485
2211 gasoline	71,277	60,931	95	10,129	121
2221 kerosene	530	381	0	143	5
2330 distillate fuel oil	36,645	31,835	115	4,545	148
2340 residual fuel oil	28,527	22,969	44	5,372	141
2350 lube oil & greases	5,825	3,867	0	1,954	3
2410 petro. jelly & waxes	288	236	---	52	0
2429 naphtha & solvents	1,833	717	---	1,105	9
2430 asphalt, tar & pitch	7,434	3,054	355	4,017	7
2540 petroleum coke	3,086	182	25	2,832	45
2640 liquid natural gas	783	247	0	535	0
2990 petro. products nec	959	513	---	442	3
Total chemicals and related products	65,142	34,586	49	30,382	124
Subtotal fertilizers	11,555	2,000	2	9,549	3
3110 nitrogenous fert.	5,021	604	2	4,412	2
3120 phosphatic fert.	726	248	---	478	0
3130 potassic fert.	745	96	---	648	0
3190 fert. & mixes nec	5,061	1,051	0	4,009	0
Subtotal other chemicals and related products	53,587	32,586	46	20,833	120
3211 acyclic hydrocarbons	533	23	---	503	6
3212 benzene & toluene	1,891	1,035	---	819	37
3219 other hydrocarbons	11,157	4,461	---	6,681	15
3220 alcohols	5,461	1,819	---	3,624	16
3230 carboxylic acids	818	316	---	498	3
3240 nitrogen func. comp.	970	31	---	938	0
3250 organo-inorganic comp.	2	2	---	0	0
3260 organic comp. nec	1,725	751	---	973	0
3271 sulphur (liquid)	4,179	3,797	---	379	1
3272 sulphuric acid	265	9	---	249	6
3273 ammonia	2,076	745	---	1,330	0
3274 sodium hydroxide	6,658	3,664	---	2,986	6
3275 inorg. elem., oxides, & halogen salts	542	51	0	482	8
3276 metallic salts	505	79	46	379	0
3279 inorganic chem. nec	300	2	---	297	---
3281 radioactive material	3	3	---	---	---
3282 pigments & paints	106	105	---	0	---
3283 coloring mat. nec	3	3	---	---	---
3284 medicines	182	182	---	---	---
3285 perfumes & cleansers	340	340	---	---	0
3286 plastics	198	179	---	18	---
3291 pesticides	47	47	0	---	0
3292 starches, gluten, glue	12	12	---	---	---
3293 explosives	10	10	---	0	---
3297 chemical additives	14,210	13,846	---	349	14
3298 wood & resin chem.	445	436	---	8	---
3299 chem. products nec	934	624	---	308	1
Total crude materials, inedible except fuels*	99,648	10,027	44,783	44,711	126
Subtotal forest products, wood and chips	5,034	1,604	0	3,425	5
4110 rubber & gums	7	6	---	0	---
4150 fuel wood	7	3	---	3	---
4161 wood chips	2,604	247	0	2,357	0
4170 wood in the rough	1,125	252	---	867	4
4189 lumber	1,155	997	0	158	0
4190 forest products nec	134	96	0	37	---
Subtotal pulp and waste paper	144	117	---	26	---
4225 pulp & waste paper	144	117	---	26	---
Subtotal soil, sand, gravel, rock and stone*	34,314	7,546	8,517	18,137	113
4310 building stone	15	2	---	13	0
4322 limestone	18,436	25	8,013	10,396	1
4323 gypsum	955	4	275	675	---
4327 phosphate rock	5,573	5,515	---	57	0
4331 sand & gravel	9,309	1,973	228	6,994	112
4333 dredged material	0	---	---	0	0
4338 soil & fill dirt	24	24	0	0	---
Subtotal iron ore and scrap	42,233	433	35,717	6,076	6
4410 iron ore	38,638	0	35,457	3,180	0
4420 iron & steel scrap	3,594	433	259	2,895	6
Subtotal marine shells	80	7	---	73	---
4515 marine shells	80	7	---	73	---
Subtotal non-ferrous ores and scrap	5,616	11	---	5,604	0
4630 copper ore	12	0	---	12	---
4650 aluminum ore	4,040	2	---	4,037	---
4670 manganese ore	1,053	---	---	1,053	0

*Ton-miles not computed for 6.3 million short tons of waterway improvement material.

Table 2-2. SUMMARY OF DOMESTIC WATERBORNE COMMERCE, TON-MILES
 BY TYPE OF TRAFFIC AND COMMODITY
 Freight Traffic, 1996 - continued
 (million short ton-miles)

Commodity	Grand Total	Coastwise	Lakewise	Internal	Intraport
4680 non-ferrous scrap	50	9	--	41	--
4690 non-ferrous ores nec	460	0	--	460	--
Subtotal sulphur, clay and salt	310	48	--	261	0
4741 sulphur, (dry)	0	0	--	--	0
4782 clay & refrac. mat.	310	48	--	261	0
Subtotal slag	1,141	2	314	824	0
4860 slag	1,141	2	314	824	0
Subtotal other non-metal. min.	10,772	255	233	10,282	0
4900 non-metal. min. nec	10,772	255	233	10,282	0
Total primary manufactured goods	26,795	6,233	960	19,574	26
Subtotal paper products	1,714	1,511	--	202	0
5110 newsprint	87	26	--	61	0
5120 paper & paperboard	1,029	946	--	82	0
5190 paper products nec	597	538	--	58	0
Subtotal lime, cement and glass	7,042	2,037	950	4,031	23
5210 lime	1,107	--	--	1,107	--
5220 cement & concrete	5,238	1,389	950	2,874	23
5240 glass & glass prod.	105	83	--	12	--
5290 misc. mineral prod.	591	555	0	36	0
Subtotal primary iron and steel products	14,054	352	10	13,689	2
5312 pig iron	3,829	0	2	3,826	0
5315 ferro alloys	1,486	--	--	1,485	0
5320 i&s primary forms	2,676	70	0	2,606	0
5330 i&s plates & sheets	3,913	61	5	3,845	0
5360 i&s bars & shapes	856	154	--	701	0
5370 i&s pipe & tube	668	31	0	635	0
5390 primary i&s nec	624	34	2	588	0
Subtotal primary non-ferrous metal products	3,535	1,957	0	1,577	0
5421 copper	39	18	--	21	0
5422 aluminum	204	27	--	176	--
5429 smelted prod. nec	213	8	--	204	--
5480 fab. metal products	3,077	1,902	0	1,175	0
Subtotal primary wood products	447	373	--	74	--
5540 primary wood prod.	447	373	--	74	--
Total food and farm products*	105,019	14,863	344	89,808	3
Subtotal fish*	176	176	--	--	--
6134 fish (not shellfish)	138	138	--	--	--
6136 shellfish	37	37	--	--	--
Subtotal grain	57,976	1,195	344	56,435	1
6241 wheat	8,162	270	318	7,573	0
6344 corn	47,503	626	--	46,876	0
6442 rice	953	277	--	675	0
6443 barley & rye	170	6	--	164	--
6445 oats	121	14	26	80	--
6447 sorghum grains	1,065	0	--	1,064	0
Subtotal oilseeds	23,692	149	--	23,542	0
6521 peanuts	11	11	--	0	--
6522 soybeans	20,460	9	--	20,450	0
6590 oilseeds nec	3,220	128	--	3,092	0
Subtotal vegetable products	1,845	1,063	--	782	0
6653 vegetable oils	929	164	--	764	0
6654 vegetables & prod.	916	898	--	17	0
Subtotal processed grain and animal feed	9,341	1,352	0	7,987	0
6746 wheat flour	203	181	--	22	0
6747 grain mill products	845	512	0	333	--
6781 hay & fodder	164	153	--	10	--
6782 animal feed, prep.	8,128	505	--	7,621	0
Subtotal other agricultural products	11,987	10,926	0	1,060	0
6811 meat, fresh, frozen	599	599	--	0	--
6817 meat, prepared	116	116	--	--	--
6822 dairy products	186	186	--	--	--
6835 fish, prepared	114	56	--	57	0
6838 tallow, animal oils	17	11	--	6	0
6839 animals & prod. nec	1,217	1,215	--	1	--
6856 bananas & plantains	36	36	--	--	--
6857 fruit & nuts nec	844	844	0	0	--
6858 fruit juices	604	604	--	0	--
6861 sugar	2,472	2,244	--	228	--
6865 molasses	833	493	--	339	0
6871 coffee	25	25	--	0	--
6872 cocoa beans	13	13	--	--	--
6885 alcoholic beverages	1,295	1,049	--	246	--
6887 groceries	1,485	1,474	0	10	0
6888 water & ice	54	21	0	32	0
6889 food products nec	1,798	1,683	0	115	0
6891 tobacco & products	46	46	--	--	--
6893 cotton	8	8	--	--	--
6894 natural fibers nec	0	0	--	--	--
6899 farm products nec	215	194	--	21	--
Total all manufactured equipment, machinery and products	11,806	10,904	0	901	1
7110 machinery (not elec)	846	563	0	282	0
7120 electrical machinery	336	328	0	7	0
7210 vehicles & parts	1,199	1,188	0	10	0
7220 aircraft & parts	2	1	--	0	--
7230 ships & boats	20	13	--	6	0
7300 ordnance & access.	28	24	--	4	--
7400 manufac. wood prod.	369	270	0	98	0
7500 textile products	351	315	--	36	0
7600 rubber & plastic pr.	258	178	--	79	0

* Ton-miles not computed for 1.7 million short tons of internal and intraport fish.

Table 2-2: SUMMARY OF DOMESTIC WATERBORNE COMMERCE, TON-MILES
 BY TYPE OF TRAFFIC AND COMMODITY
 Freight Traffic, 1996 - continued
 (million short ton-miles)

Commodity		Grand Total	Coastwise	Lakewise	Internal	Intraport
7800	empty containers	26	---	---	26	---
7900	manufac. prod. nec	8,368	8,018	0	348	1
Total waste and scrap nec		325	1	0	213	110
8900	waste and scrap nec	325	1	0	213	110
Total unknown or not elsewhere classified		151	150	0	0	0
9900	unknown or nec	151	150	0	0	0

Table 2-3: DOMESTIC BARGE TRAFFIC BY TYPE OF TRAFFIC AND COMMODITY

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1987	713,384	1990	776,146	1993	753,287	1996	802,275
1988	740,893	1991	749,654	1994	782,014		
1989	743,196	1992	762,540	1995	786,560		

Freight Traffic, 1996 (thousand short tons)

Commodity	Barge-Traffic						Domestic	
	Total	Coastwise	Lakewise	Internal	Intraport	Intra-Territory	%-Barge	Traffic
Total, all commodities	802,275	106,614	8,630	595,067	85,994	5,971	72.9	1,100,679
Total coal	205,915	10,656	74	176,303	18,882	---	89.6	229,900
1100 coal lignite	201,630	10,615	52	172,328	18,634	---	89.5	225,303
1200 coal coke	4,286	41	22	3,975	248	---	93.2	4,598
Total petroleum and petroleum products	250,360	58,944	1,726	143,962	39,789	5,939	62.8	398,451
Subtotal crude petroleum	39,316	1,467	---	36,169	1,680	---	30.7	128,089
2100 crude petroleum	39,316	1,467	---	36,169	1,680	---	30.7	128,089
Subtotal petroleum products	211,044	57,477	1,726	107,792	38,109	5,939	78.1	270,361
2211 gasoline	64,317	23,246	258	32,079	6,729	2,004	67.5	95,291
2221 kerosene	1,619	433	---	791	395	---	90.6	1,787
2330 distillate fuel oil	46,016	13,817	318	21,445	9,514	921	74.0	62,157
2340 residual fuel oil	65,836	15,796	219	29,153	17,748	2,921	87.6	75,136
2350 lube oil & greases	3,327	259	4	2,650	413	---	66.5	5,006
2410 petro. jelly & waxes	161	68	---	92	1	---	93.9	172
2429 naphtha & solvents	4,889	198	---	3,386	1,212	93	94.6	5,167
2430 asphalt, tar & pitch	12,100	2,636	908	7,938	618	---	95.5	12,664
2540 petroleum coke	7,619	202	18	6,411	987	---	98.7	7,718
2640 liquid natural gas	2,408	314	---	2,064	30	---	99.9	2,411
2990 petro. products nec	2,752	509	---	1,781	462	---	96.4	2,853
Total chemicals and related products	67,566	6,193	153	49,779	11,441	---	84.2	80,201
Subtotal fertilizers	13,637	1,533	20	11,839	245	---	97.2	14,035
3110 nitrogenous fert.	6,381	338	20	5,833	190	---	100.0	6,383
3120 phosphatic fert.	1,881	266	---	1,613	3	---	97.6	1,928
3130 potassic fert.	1,192	85	---	1,083	24	---	99.9	1,192
3190 fert. & mixes nec	4,184	845	---	3,310	29	---	92.3	4,531
Subtotal other chemicals and related products	53,929	4,660	133	37,940	11,195	---	81.5	66,167
3211 acyclic hydrocarbons	2,750	1	---	1,813	936	---	99.8	2,756
3212 benzene & toluene	5,973	60	---	3,668	2,246	---	95.7	6,243
3219 other hydrocarbons	11,576	511	---	8,983	2,081	---	87.5	13,228
3220 alcohols	6,699	122	---	5,144	1,433	---	92.0	7,284
3230 carboxylic acids	1,606	13	---	925	668	---	92.8	1,731
3240 nitrogen func. comp.	1,486	0	---	1,471	14	---	99.2	1,498
3250 organo-inorganic comp.	6	0	---	4	1	---	90.9	6
3260 organic comp. nec	1,248	8	---	1,178	62	---	85.0	1,468
3271 sulphur (liquid)	3,168	994	---	2,053	121	---	37.6	8,430
3272 sulphuric acid	1,726	19	---	1,309	398	---	100.0	1,727
3273 ammonia	2,499	248	---	2,246	5	---	91.1	2,744
3274 sodium hydroxide	6,491	1,550	---	4,488	453	---	95.8	6,777
3275 inorg. elem. oxides, & halogen salts	1,843	20	---	1,024	799	---	98.8	1,864
3276 metallic salts	1,117	62	133	903	19	---	98.0	1,139
3279 inorganic chem. nec	245	1	---	244	---	---	99.5	246
3281 radioactive material	0	0	---	---	---	---	2.0	2
3282 pigments & paints	11	10	---	1	---	---	22.8	48
3283 coloring mat. nec	1	1	---	---	---	---	53.5	3
3284 medicines	4	4	---	---	---	---	3.3	117
3285 perfumes & cleansers	31	31	---	---	---	---	17.9	174
3286 plastics	39	17	---	22	---	---	29.8	131
3291 pesticides	20	9	---	---	11	---	52.6	37
3292 starches, gluten, glue	2	2	---	---	---	---	20.5	9
3293 explosives	3	2	---	1	---	---	65.8	5
3297 chemical additives	4,294	783	---	1,811	1,700	---	60.6	7,085
3298 wood & resin chem.	135	34	---	101	---	---	61.3	220
3299 chem. products nec	958	159	---	550	249	---	80.2	1,195
Total crude materials, inedible except fuels	142,416	17,623	5,853	109,320	9,596	25	61.1	233,211
Subtotal forest products, wood and chips	11,509	1,329	0	10,145	34	1	61.0	18,874
4110 rubber & gums	4	4	---	0	---	---	81.2	5
4150 fuel wood	40	---	---	40	---	---	96.8	41
4161 wood chips	7,283	568	---	6,693	22	---	100.0	7,283
4170 wood in the rough	3,474	247	---	3,218	9	---	32.8	10,602
4189 lumber	653	492	0	157	3	1	83.7	780
4190 forest products nec	56	19	---	37	---	---	34.4	163
Subtotal pulp and waste paper	283	36	---	247	---	---	83.4	339
4225 pulp & waste paper	283	36	---	247	---	---	83.4	339
Subtotal soil, sand, gravel, rock and stone	101,566	15,520	2,080	74,851	9,091	24	79.8	127,236
4310 building stone	47	0	---	20	26	---	98.9	47
4322 limestone	25,781	50	1,977	23,719	35	---	51.8	49,811
4323 gypsum	737	1	---	736	---	---	44.4	1,660
4327 phosphate rock	6,089	6,013	---	73	3	---	100.0	6,089
4331 sand & gravel	68,875	9,433	103	50,293	9,023	24	99.0	69,585

Table 2-3: DOMESTIC BARGE TRAFFIC BY TYPE OF TRAFFIC AND COMMODITY
 Freight Traffic, 1996 - continued
 (thousand short tons)

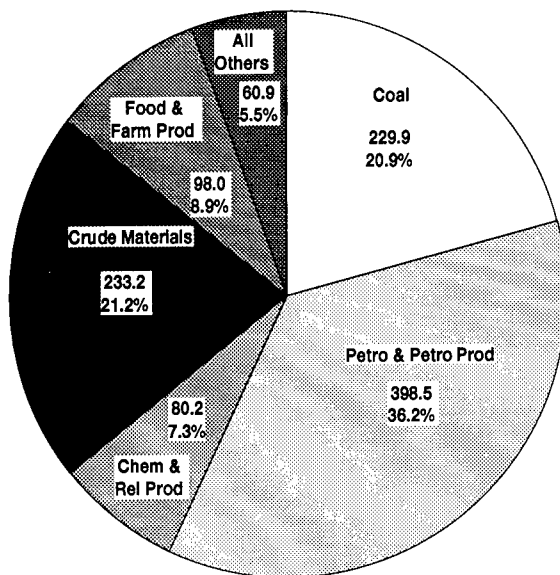
Commodity	Barge-Traffic						Domestic	
	Total	Coastwise	Lakewise	Internal	Inraport	Intra-Territory	%-Barge	Traffic
4333 dredged material	7	---	---	4	4	---	100.0	7
4338 soil & fill dirt	29	23	---	7	---	---	82.1	36
Subtotal iron ore and scrap	12,871	308	3,243	8,906	414	---	18.9	68,161
4410 iron ore	7,296	---	3,016	4,273	8	---	11.7	62,468
4420 iron & steel scrap	5,575	308	227	4,633	406	---	97.9	5,693
Subtotal marine shells	666	13	---	652	---	---	97.4	684
4515 marine shells	666	13	---	652	---	---	97.4	684
Subtotal non-ferrous ores and scrap	4,550	2	---	4,533	16	---	99.8	4,558
4630 copper ore	13	---	---	13	---	---	99.0	13
4650 aluminum ore	3,143	1	---	3,142	---	---	100.0	3,143
4670 manganese ore	912	---	---	896	16	---	100.0	912
4680 non-ferrous scrap	36	0	---	36	---	---	83.7	43
4690 non-ferrous ores nec	447	---	---	447	---	---	100.0	447
Subtotal sulphur, clay and salt	624	148	---	475	1	---	50.3	1,241
4741 sulphur, (dry)	0	0	---	---	---	---	100.0	0
4782 clay & refrac. mat.	624	148	---	475	1	---	50.3	1,241
Subtotal slag	1,127	4	249	874	0	---	67.5	1,670
4860 slag	1,127	4	249	874	0	---	67.5	1,670
Subtotal other non-metal. min.	9,218	262	281	8,636	40	---	88.2	10,449
4900 non-metal. min. nec	9,218	262	281	8,636	40	---	88.2	10,449
Total primary manufactured goods	32,846	6,280	822	24,727	1,016	1	87.1	37,718
Subtotal paper products	976	141	---	830	5	---	57.3	1,703
5110 newsprint	66	4	---	58	4	---	83.5	79
5120 paper & paperboard	693	12	---	681	0	---	55.4	1,251
5190 paper products nec	216	125	---	91	---	---	58.2	372
Subtotal lime, cement and glass	12,936	2,611	467	9,063	794	1	82.8	15,625
5210 lime	2,574	---	---	2,574	---	---	100.0	2,574
5220 cement & concrete	10,034	2,485	467	6,287	794	---	80.1	12,530
5240 glass & glass prod.	49	31	---	18	---	---	56.9	86
5290 misc. mineral prod.	279	94	0	184	1	1	64.3	435
Subtotal primary iron and steel products	13,066	144	354	12,367	201	---	93.1	14,030
5312 pig iron	3,665	---	15	3,646	3	---	100.0	3,665
5315 ferro alloys	1,039	---	---	1,018	21	---	100.0	1,039
5320 i&s primary forms	2,224	74	1	2,148	1	---	100.0	2,225
5330 i&s plates & sheets	3,978	13	269	3,621	76	---	99.8	3,988
5360 i&s bars & shapes	664	23	0	625	16	---	96.1	691
5370 i&s pipe & tube	735	21	0	646	68	---	44.5	1,650
5390 primary i&s nec	761	12	69	663	17	---	98.7	772
Subtotal primary non-ferrous metal products	5,641	3,270	0	2,356	16	0	92.6	6,089
5421 copper	21	1	---	20	0	---	63.9	34
5422 aluminum	181	4	---	177	---	---	91.5	197
5429 smelted prod. nec	940	0	---	940	---	---	98.8	952
5480 fab. metal products	4,499	3,265	0	1,218	16	0	91.7	4,906
Subtotal primary wood products	226	115	---	111	---	---	83.5	271
5540 primary wood prod.	226	115	---	111	---	---	83.5	271
Total food and farm products	91,389	3,345	---	87,658	386	---	93.3	97,984
Subtotal fish	29	29	---	---	---	---	28.4	104
6134 fish (not shellfish)	6	6	---	---	---	---	8.6	68
6136 shellfish	24	24	---	---	---	---	66.0	36
Subtotal grain	55,164	506	---	54,501	157	---	99.2	55,586
6241 wheat	12,503	138	---	12,302	63	---	97.5	12,829
6344 corn	39,503	306	---	39,115	82	---	100.0	39,503
6442 rice	1,263	52	---	1,209	2	---	95.1	1,329
6443 barley & rye	331	3	---	328	---	---	100.0	331
6445 oats	81	7	---	74	---	---	72.5	111
6447 sorghum grains	1,482	---	---	1,473	9	---	100.0	1,482
Subtotal oilseeds	23,158	64	---	23,063	31	---	99.9	23,184
6521 peanuts	1	0	---	1	---	---	7.7	14
6522 soybeans	19,831	5	---	19,796	30	---	100.0	19,831
6590 oilseeds nec	3,326	59	---	3,266	2	---	99.6	3,336
Subtotal vegetable products	1,132	123	---	993	16	---	76.3	1,484
6653 vegetable oils	1,049	80	---	952	16	---	99.4	1,056
6654 vegetables & prod.	83	43	---	40	---	---	19.4	428
Subtotal processed grain and animal feed	8,258	457	---	7,700	101	---	97.3	8,490
6746 wheat flour	40	4	---	36	0	---	41.6	97
6747 grain mill products	597	289	---	307	---	---	96.2	620
6781 hay & fodder	82	36	---	47	---	---	75.4	109
6782 animal feed, prep.	7,539	128	---	7,310	101	---	98.4	7,663
Subtotal other agricultural products	3,647	2,165	---	1,401	81	---	39.9	9,136
6811 meat, fresh, frozen	45	45	---	0	---	---	15.0	297
6817 meat, prepared	8	8	---	---	---	---	11.5	67
6822 dairy products	34	34	---	---	---	---	38.6	88
6835 fish, prepared	67	8	---	58	1	---	74.0	91
6838 tallow, animal oils	18	6	---	10	2	---	98.5	18
6839 animals & prod. nec	47	39	---	8	---	---	6.6	715

Table 2-3: DOMESTIC BARGE TRAFFIC BY TYPE OF TRAFFIC AND COMMODITY
 Freight Traffic, 1996 - continued
 (thousand short tons)

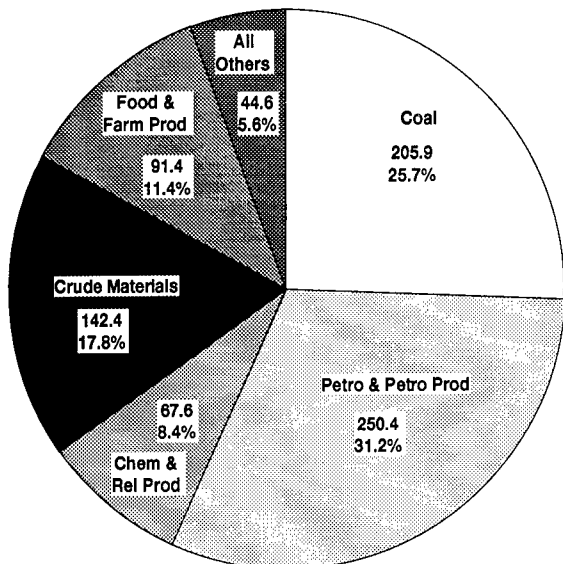
Commodity	Barge-Traffic						Domestic	
	Total	Coastwise	Lakewise	Internal	Intraport	Intra-Territory	%-Barge	Traffic
6856 bananas & plantains	0	0	---	---	---	---	1.9	14
6857 fruit & nuts nec	5	5	---	0	---	---	1.5	359
6858 fruit juices	126	126	---	0	---	---	38.4	327
6861 sugar	1,396	893	---	503	---	---	77.2	1,807
6865 molasses	628	177	---	408	43	---	81.3	772
6871 coffee	3	2	---	1	---	---	18.8	15
6872 cocoa beans	0	0	---	---	---	---	1.7	13
6885 alcoholic beverages	311	111	---	200	---	---	40.0	779
6887 groceries	350	338	---	12	0	---	41.0	854
6888 water & ice	58	6	---	17	35	---	3.4	1,690
6889 food products nec	511	345	---	166	---	---	46.3	1,105
6891 tobacco & products	13	13	---	---	---	---	41.7	32
6893 cotton	0	0	---	---	---	---	1.8	14
6894 natural fibers nec	0	0	---	---	---	---	33.0	0
6899 farm products nec	25	8	---	17	---	---	32.4	78
Total all manufactured equipment, machinery and products	5,849	3,572	2	2,035	235	6	34.1	17,156
7110 machinery (not elec)	354	114	1	226	12	---	4.3	8,282
7120 electrical machinery	92	82	---	10	---	---	44.7	206
7210 vehicles & parts	776	754	---	16	0	6	68.4	1,134
7220 aircraft & parts	1	0	---	1	---	---	27.6	2
7230 ships & boats	10	3	---	7	0	---	63.9	16
7300 ordnance & access.	9	5	---	5	---	---	83.1	11
7400 manufac. wood prod.	230	40	0	188	1	1	72.1	319
7500 textile products	75	38	---	37	---	---	31.6	236
7600 rubber & plastic pr.	152	28	---	124	---	---	65.7	232
7800 empty containers	142	---	---	142	---	---	100.0	142
7900 manufac. prod. nec	4,009	2,508	0	1,279	222	0	60.9	6,577
Total waste and scrap nec	5,933	0	---	1,284	4,649	---	99.7	5,952
8900 waste and scrap nec	5,933	0	---	1,284	4,649	---	99.7	5,952
Total unknown or not elsewhere classified	2	1	---	---	---	0	1.9	106
9900 unknown or nec	2	1	---	---	---	0	1.9	106

Figure 2-1
 DOMESTIC COMMERCE, 1996
 COMPARED BY MAJOR COMMODITY GROUPS
 BARGE AND SELF-PROPELLED VESSEL TRAFFIC
 (million short tons and percentage of short tons)

Domestic Traffic



Barge Traffic



Self-Propelled Traffic

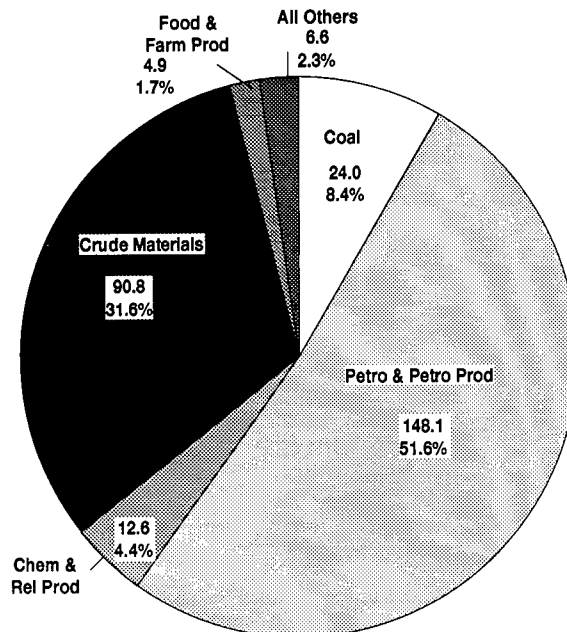
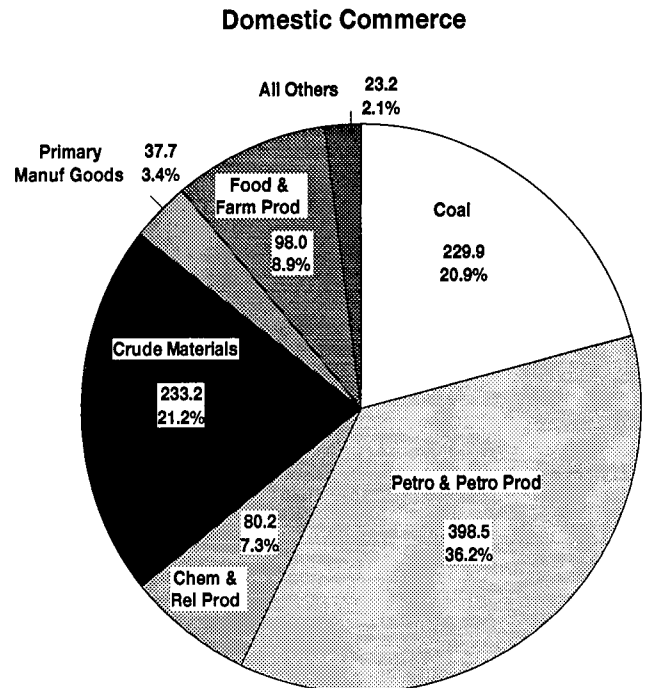
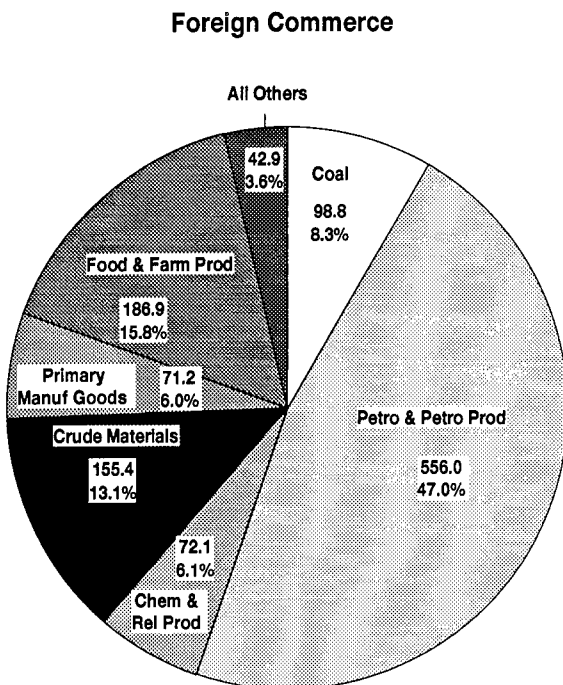
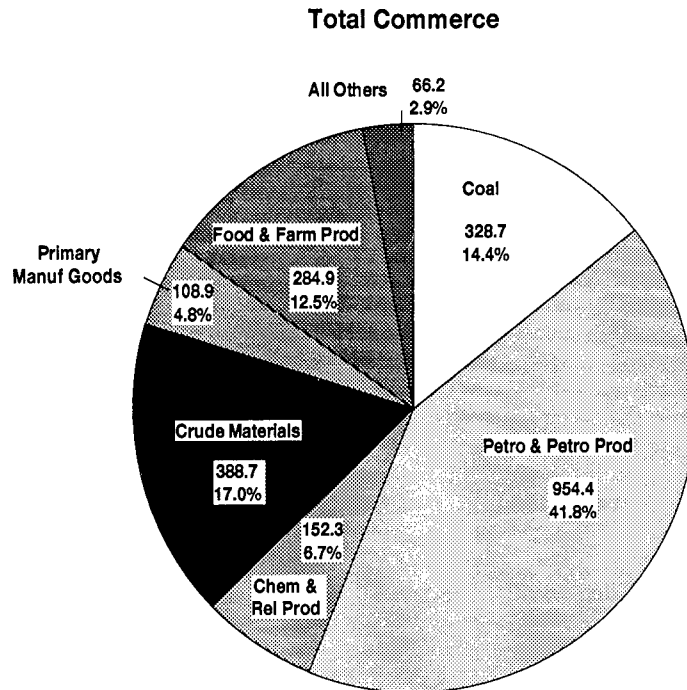


Table 2-4: PRINCIPAL COMMODITIES IN WATERBORNE COMMERCE, 1995-1996*
(million short tons)

	1995	1996	%Change
Total Commerce	2,238.7	2,284.1	2.0
Coal	324.5	328.7	1.3
Petro & Petro Prod	907.1	954.4	5.2
Chem & Rel Prod	152.9	152.3	-0.4
Crude Materials	381.7	388.7	1.8
Primary Manuf Goods	106.3	108.9	2.5
Food and Farm Prod	301.6	284.9	-5.5
All Manuf Equip	57.8	59.0	2.1
Other	6.9	7.2	3.6
Foreign Commerce	1,147.4	1,183.4	3.1
Coal	100.9	98.8	-2.1
Petro & Petro Prod	503.5	556.0	10.4
Chem & Rel Prod	73.5	72.1	-2.0
Crude Materials	155.4	155.4	0.1
Primary Manuf Goods	69.5	71.2	2.5
Food and Farm Prod	199.9	186.9	-6.5
All Manuf Equip	43.2	41.8	-3.2
Other	1.5	1.1	-23.4
Domestic Commerce	1,091.4	1,100.7	0.9
Coal	223.5	229.9	2.8
Petro & Petro Prod	403.6	398.5	-1.3
Chem & Rel Prod	79.4	80.2	1.1
Crude Materials	226.4	233.2	3.0
Primary Manuf Goods	36.8	37.7	2.5
Food and Farm Prod	101.7	98.0	-3.7
All Manuf Equip	14.6	17.2	17.7
Other	5.5	6.1	10.9

* Beginning with calendar year 1996, fish was excluded for internal and intraport domestic traffic. Therefore, for the percent change comparison, the 1995 figures in this table have been adjusted to also exclude the internal and intraport domestic fish traffic.

Figure 2-2
 PRINCIPAL COMMODITY GROUPS CARRIED BY WATER, 1996
 (million short tons and percentage of short tons)



Section 3

Waterways

Figure 3-1
 MISSISSIPPI RIVER SYSTEM, 1977-1996
 BY TYPE OF TRAFFIC
 (million short tons)

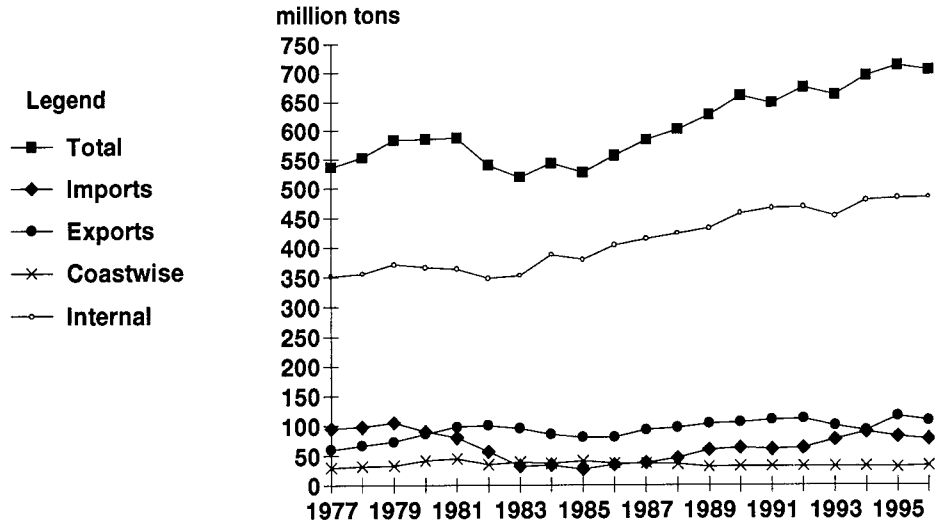


Table 3-1: MISSISSIPPI RIVER SYSTEM, 1977-1996
 BY TYPE OF TRAFFIC*
 (million short tons)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	536.8	552.9	582.9	584.2	586.0	539.6	519.1	543.5	527.8	556.4
Imports	96.0	98.6	105.9	90.8	80.1	56.7	32.3	34.1	27.0	35.1
Exports	59.6	67.3	73.3	86.3	98.3	100.8	95.8	85.9	81.0	81.1
Coastwise	29.6	31.7	33.1	41.6	44.7	34.7	39.1	36.7	40.9	37.4
Internal	351.5	355.4	370.8	365.6	362.9	347.5	352.0	386.6	378.9	402.8

	1987	1988	1989	1990	1991	1992+	1993	1994+	1995+	1996
Total	583.4	601.6	626.4	659.1	646.6	673.1	660.4	693.3	707.2	701.8
Imports	38.1	45.3	59.9	63.1	60.1	63.0	76.9	89.8	81.5	77.3
Exports	93.7	97.5	104.0	106.0	109.9	112.3	100.0	92.4	115.8	108.7
Coastwise	37.4	35.8	31.1	32.6	31.3	32.3	31.8	32.4	30.6	33.0
Internal	414.2	423.0	431.5	457.5	445.1	465.4	451.7	478.7	479.4	482.8

*Imports include Upbound Thru Traffic. Exports include Downbound Thru Traffic.
 +Prior years tonnages have been changed to reflect the latest available information.

Figure 3-2
MISSISSIPPI RIVER SYSTEM, 1977-1996
ALL TRAFFIC BY COMMODITY GROUP
(million short tons)

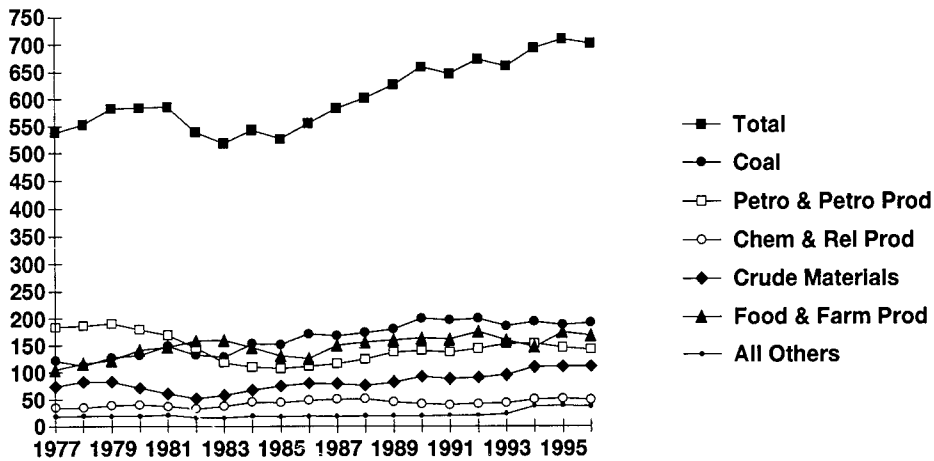


Table 3-2. MISSISSIPPI RIVER SYSTEM, 1977-1996
ALL TRAFFIC BY COMMODITY GROUP
(million short tons)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	537.8	552.9	582.9	584.2	586.0	539.6	519.1	543.5	527.8	556.4
Coal	122.2	112.4	127.9	131.8	149.6	133.1	129.0	153.0	152.0	171.1
Petro & Petro Prod	184.1	186.8	191.0	179.6	169.8	146.4	118.7	110.5	107.6	112.1
Chem & Rel Prod	34.5	34.4	39.1	40.3	37.3	32.7	37.8	45.7	44.4	48.6
Crude Materials	73.9	83.6	83.4	72.0	61.0	52.4	58.3	68.2	75.6	80.0
Primary Manuf Goods	16.0	16.9	17.4	15.8	17.2	13.4	14.2	18.6	16.5	17.5
Food & Farm Prod	105.1	116.5	122.5	141.6	147.9	159.4	159.8	146.5	130.6	125.8
All Manuf Equip	1.1	1.1	1.1	1.1	1.2	0.8	0.7	0.6	0.7	0.8
Other	0.9	1.2	0.5	2.0	2.1	1.5	0.7	0.4	0.4	0.3

	1987	1988	1989	1990	1991	1992+	1993	1994+	1995+	1996
Total	583.4	601.6	626.4	659.1	646.6	673.1	660.4	693.3	707.2	701.8
Coal	167.9	173.8	180.3	200.8	197.5	199.7	186.1	194.2	188.1	192.3
Petro & Petro Prod	116.9	124.4	138.2	140.9	137.9	144.6	153.0	153.6	146.2	143.0
Chem & Rel Prod	50.6	50.8	45.8	41.8	40.0	42.0	43.5	50.3	51.4	49.9
Crude Materials	79.5	76.6	82.6	92.8	89.0	91.1	95.4	109.7	108.3	111.0
Primary Manuf Goods	17.1	18.3	18.1	18.3	19.4	18.9	21.6	36.5	37.3	34.6
Food & Farm Prod	150.4	156.4	160.1	163.4	161.9	175.7	159.6	147.7	174.5	168.3
All Manuf Equip	0.6	0.8	1.1	1.0	0.8	0.9	1.1	1.1	1.2	2.5
Other	0.4	0.4	0.4	0.1	0.1	0.2	0.2	0.2	0.3	0.3

+.Prior years tonnages have been changed to reflect the latest available information.

Figure 3-3
MISSISSIPPI RIVER SYSTEM, 1977-1996
INTERNAL TRAFFIC BY COMMODITY GROUP
(million short tons)

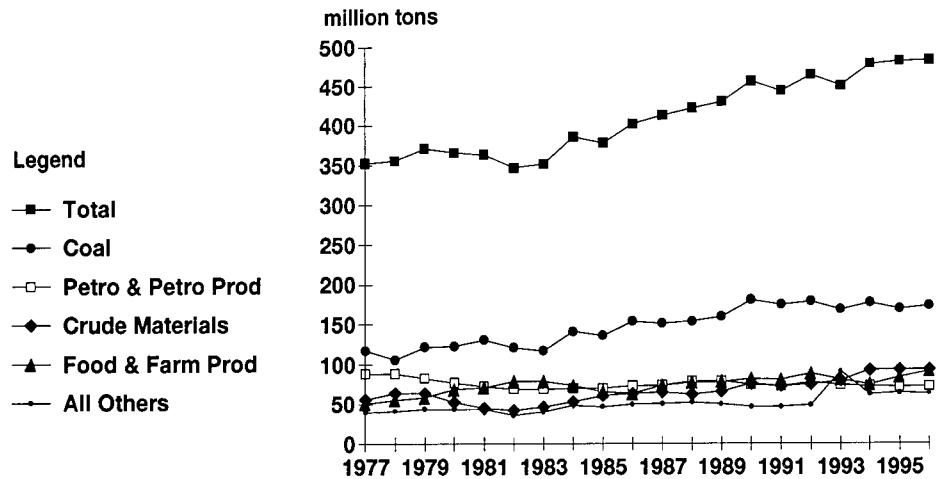


Table 3-3: MISSISSIPPI RIVER SYSTEM, 1977-1996
INTERNAL TRAFFIC BY COMMODITY GROUP
(million short tons)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	352.5	355.4	370.8	365.6	362.9	347.5	352.0	386.6	378.9	402.8
Coal	117.6	106.0	121.4	123.0	130.6	121.2	117.0	141.3	135.8	153.6
Petro & Petro Prod	88.4	88.4	82.8	77.3	72.3	69.1	69.1	70.0	70.1	72.7
Chem & Rel Prod	27.2	27.6	30.5	30.3	28.6	24.4	28.5	34.3	33.4	35.7
Crude Materials	56.1	64.2	64.2	52.6	44.9	42.3	46.7	52.9	60.7	63.7
Primary Manuf Goods	11.3	11.8	12.7	11.3	12.6	9.8	10.8	13.7	12.4	13.0
Food & Farm Prod	50.4	55.6	58.3	68.6	71.2	78.9	78.9	73.7	65.9	63.2
All Manuf Equip	0.6	0.5	0.5	0.5	0.6	0.4	0.3	0.4	0.3	0.5
Other	0.8	1.2	0.4	2.0	2.1	1.4	0.6	0.3	0.3	0.3

	1987	1988	1989	1990	1991	1992+	1993	1994+	1995+	1996
Total	414.2	423.0	431.5	457.5	445.1	465.4	451.7	478.7	479.4	482.8
Coal	151.1	153.3	159.4	180.1	174.3	178.4	167.8	176.7	169.4	173.3
Petro & Petro Prod	73.8	78.2	79.0	74.1	72.0	76.7	73.7	72.6	71.7	71.9
Chem & Rel Prod	36.7	37.7	34.6	31.1	30.7	33.2	34.4	38.7	39.0	37.8
Crude Materials	65.0	62.3	65.7	75.2	72.5	74.2	79.1	92.4	90.5	93.4
Primary Manuf Goods	13.1	13.6	13.9	14.3	14.8	14.5	15.5	22.9	23.8	22.3
Food & Farm Prod	73.9	77.1	77.9	82.0	80.3	87.7	80.4	74.5	84.1	81.7
All Manuf Equip	0.3	0.5	0.7	0.6	0.5	0.5	0.7	0.7	0.8	2.1
Other	0.3	0.3	0.3	0.1	0.1	0.2	0.1	0.2	0.2	0.2

+Prior years tonnages have been changed to reflect the latest available information.

Table 3-4: PRINCIPAL COMMODITIES IN WATERBORNE COMMERCE, 1995-1996
 FOR THE MISSISSIPPI RIVER SYSTEM
 (million short tons)

	1995	1996	%Change
Foreign Commerce	197.3	186.0	-5.7
Coal	11.7	10.4	-10.7
Petro & Petro Prod	62.2	56.9	-8.4
Chem & Rel Prod	8.0	8.0	-0.4
Crude Materials	12.1	12.4	2.6
Primary Manuf Goods	13.5	12.2	-9.6
Food & Farm Prod	89.4	85.7	-4.2
Other	0.4	0.4	1.6
Coastwise Traffic	30.6	33.0	8.0
Coal	7.1	8.5	20.1
Petro & Petro Prod	12.4	14.2	14.7
Chem & Rel Prod	4.4	4.1	-7.1
Crude Materials	5.7	5.2	-8.9
Primary Manuf Goods	0.0	0.0	100.9
Food & Farm Prod	1.0	0.9	-0.6
Other	0.0	0.0	-92.4
Internal Traffic	479.4	482.8	0.7
Coal	169.4	173.3	2.3
Petro & Petro Prod	71.6	71.9	0.3
Chem & Rel Prod	38.9	37.8	-2.9
Crude Materials	90.5	93.4	3.1
Primary Manuf Goods	23.8	22.3	-6.2
Food & Farm Prod	84.1	81.7	-2.8
Other	1.1	2.4	123.0

Figure 3-4
PRINCIPAL COMMODITY GROUPS CARRIED BY WATER, 1996
FOR THE MISSISSIPPI RIVER SYSTEM
 (million short tons and percentage of short tons)

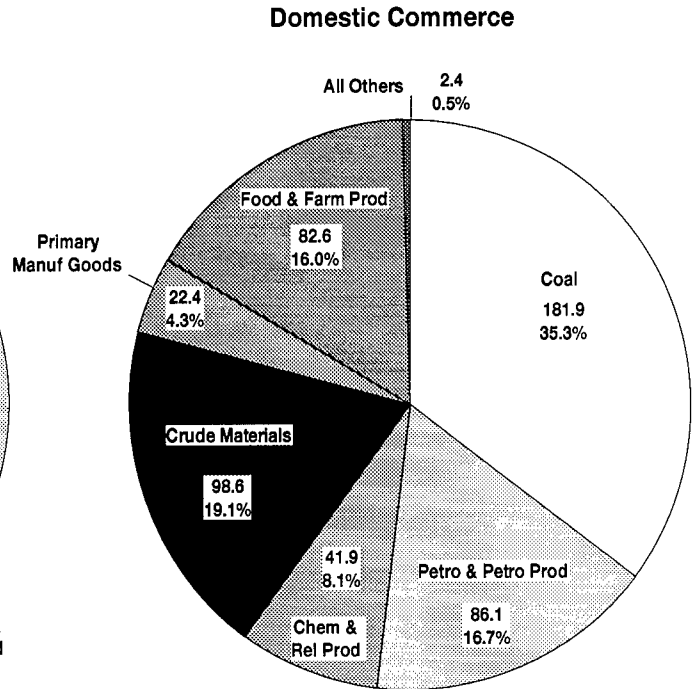
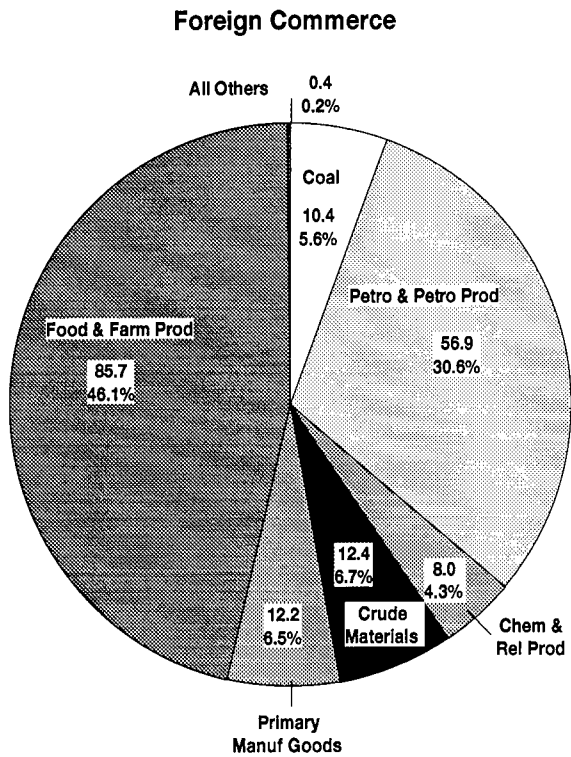
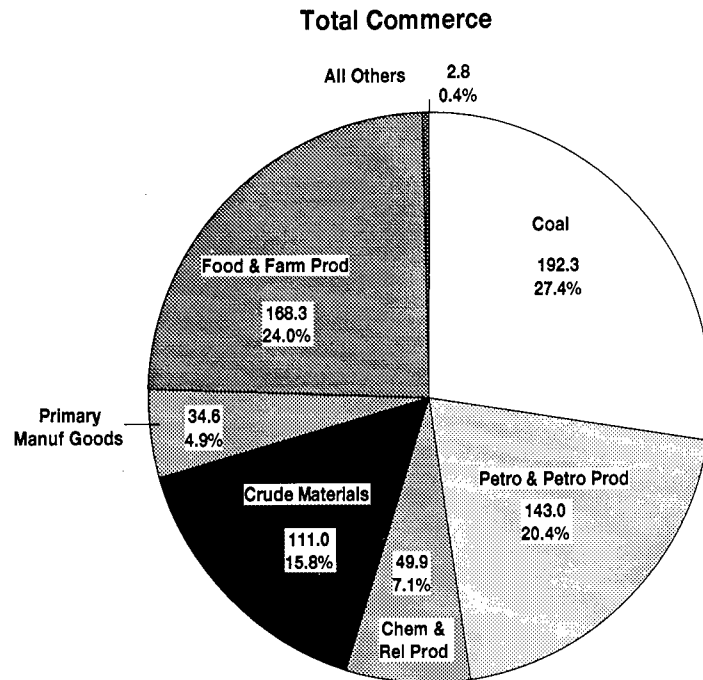


Figure 3-5
MISSISSIPPI RIVER MAIN STEM, 1977-1996
BY TYPE OF TRAFFIC
(million short tons)

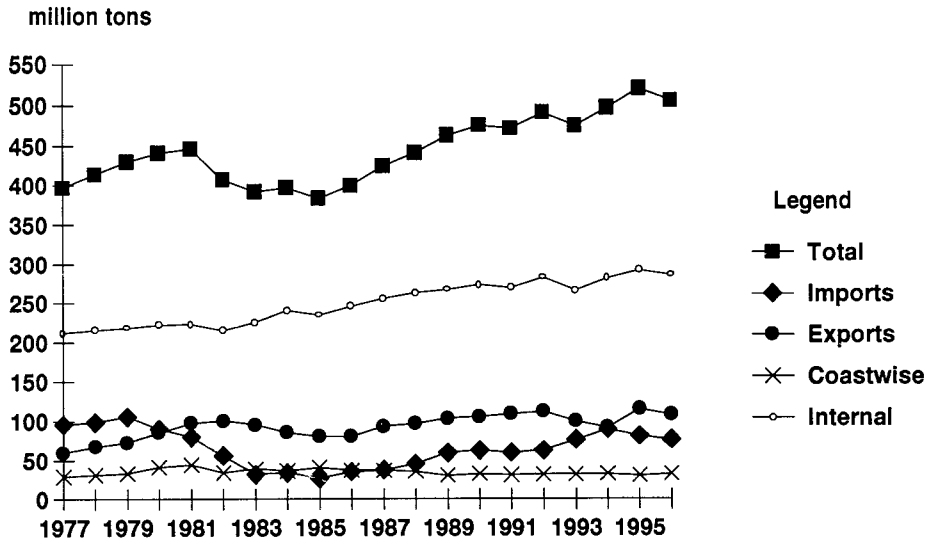


Table 3-5: MISSISSIPPI RIVER MAIN STEM, 1977-1996
BY TYPE OF TRAFFIC*
(million short tons)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	396.8	413.1	430.2	441.5	446.4	407.6	392.1	397.3	384.0	399.9
Imports	96.0	98.6	105.9	90.8	80.1	56.7	32.3	34.1	27.0	35.1
Exports	59.6	67.3	73.3	86.3	98.3	100.8	95.8	85.9	81.0	81.1
Coastwise	29.6	31.7	33.1	41.6	44.7	34.7	39.1	36.9	40.9	37.4
Internal	211.5	215.5	218.0	222.9	223.3	215.4	225.0	240.4	235.0	246.3
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Total	425.0	441.5	462.7	475.3	471.7	491.0	475.1	496.8	520.3	505.6
Imports	38.1	45.3	59.9	63.1	60.1	63.0	76.9	89.8	81.5	77.3
Exports	93.7	97.5	104.0	106.0	109.9	112.3	100.0	92.4	115.8	108.7
Coastwise	37.4	35.8	31.1	32.6	31.3	32.4	31.8	32.4	30.6	33.0
Internal	255.8	262.9	267.8	273.6	270.3	283.3	266.5	282.2	292.4	286.5

*Imports include Upbound Thru Traffic. Exports include Downbound Thru Traffic.

Figure 3-6
MISSISSIPPI RIVER MAIN STEM, 1977-1996
BY COMMODITY GROUP
(million short tons)

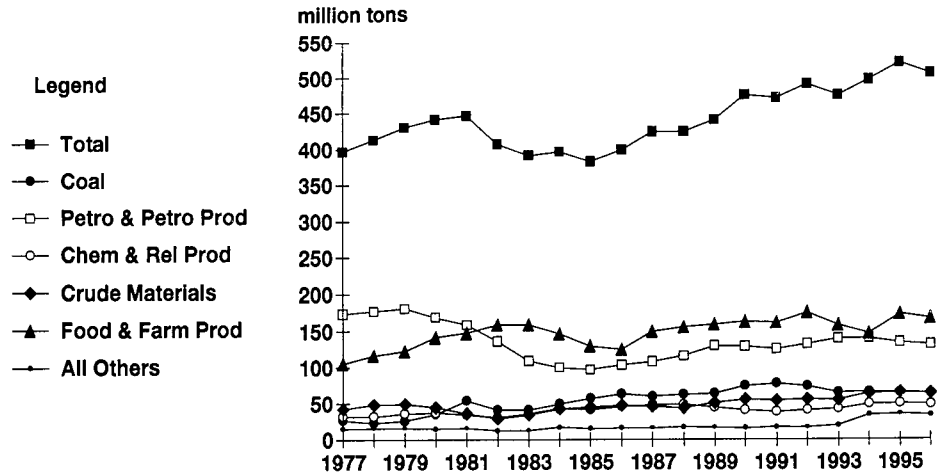


Table 3-6: MISSISSIPPI RIVER MAIN STEM 1977-1996
BY COMMODITY GROUP
(million short tons)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	396.8	413.1	430.2	441.5	446.4	407.6	392.1	397.3	384.0	399.9
Coal	27.6	23.0	26.1	35.2	53.9	41.1	41.2	49.7	56.8	62.9
Petro & Petro Prod	173.5	176.9	180.5	168.3	158.2	135.4	108.8	99.2	96.7	102.6
Chem & Rel Prod	32.6	32.5	36.1	37.3	34.8	30.9	36.0	43.0	41.1	46.2
Crude Materials	42.8	48.6	49.3	44.7	36.4	29.2	34.2	42.7	44.9	47.4
Primary Manuf Goods	14.1	14.7	14.8	13.5	14.4	11.5	12.1	16.3	14.3	15.3
Food & Farm Prod	104.8	116.1	122.2	141.2	147.3	158.6	158.8	145.6	129.1	124.4
All Manuf Equip	1.0	1.0	1.0	1.0	1.1	0.7	0.6	0.6	0.7	0.8
Other	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3

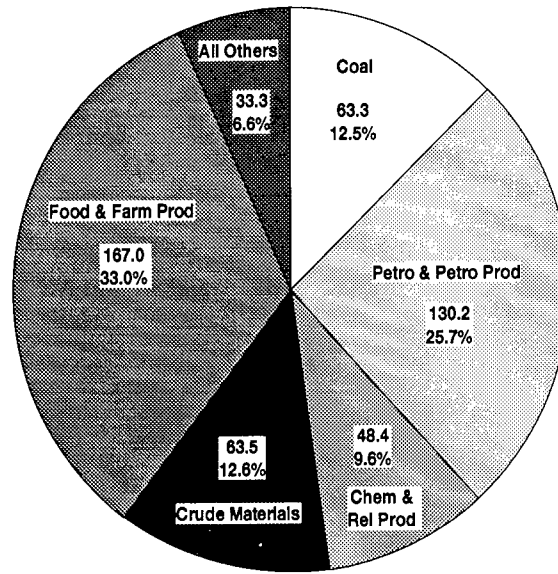
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Total	425.0	441.5	462.7	475.3	471.7	491.0	475.1	496.8	520.3	505.6
Coal	59.3	62.3	63.7	73.7	77.2	73.1	64.1	65.4	64.6	63.3
Petro & Petro Prod	107.3	115.3	128.8	127.7	124.4	130.8	138.4	139.4	133.0	130.2
Chem & Rel Prod	47.9	48.3	44.0	40.3	38.4	40.4	41.6	48.6	49.7	48.4
Crude Materials	45.7	43.7	50.4	55.1	53.8	55.5	54.3	63.5	65.0	63.5
Primary Manuf Goods	14.8	15.8	15.4	15.3	16.4	15.7	18.3	32.9	34.0	31.0
Food & Farm Prod	149.0	155.1	158.8	162.1	160.6	174.4	157.4	145.9	172.8	167.0
All Manuf Equip	0.6	0.8	1.1	1.0	0.8	0.9	1.0	0.9	1.0	2.0
Other	0.4	0.4	0.4	0.1	0.1	0.2	0.2	0.2	0.3	0.3

Table 3-7: PRINCIPAL COMMODITIES IN WATERBORNE COMMERCE, 1995-1996
 FOR THE MISSISSIPPI RIVER MAIN STEM
 (million short tons)

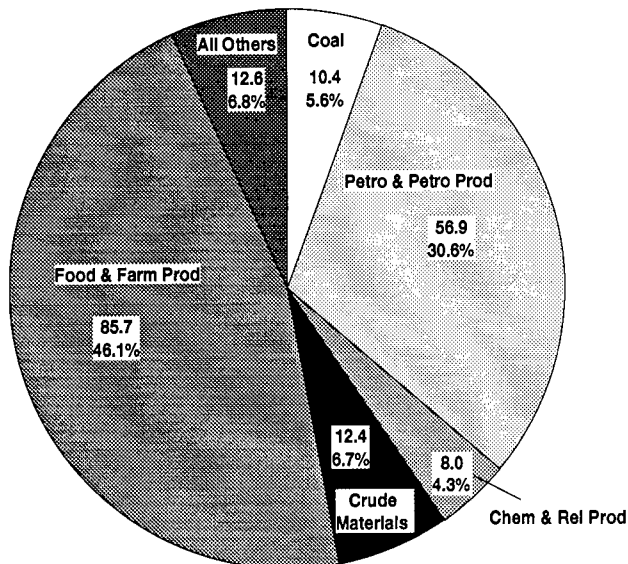
	1995	1996	%Change
Total Commerce	520.3	505.6	-2.8
Coal	64.6	63.3	-2.0
Petro & Petro Prod	133.0	130.2	-2.1
Chem & Rel Prod	49.7	48.4	-2.8
Crude Materials	65.0	63.5	-2.3
Primary Manuf Goods	34.0	31.0	-8.8
Food & Farm Prod	172.8	167.0	-3.4
Other	1.2	2.3	81.6
Foreign Commerce	197.3	186.0	-5.7
Coal	11.7	10.4	-10.7
Petro & Petro Prod	62.2	56.9	-8.4
Chem & Rel Prod	8.0	8.0	-0.4
Crude Materials	12.1	12.4	2.6
Primary Manuf Goods	13.5	12.2	-9.6
Food & Farm Prod	89.4	85.7	-4.2
Other	0.4	0.4	1.6
Domestic Commerce	323.0	319.6	-1.1
Coal	52.9	52.9	-0.1
Petro & Petro Prod	70.8	73.3	3.5
Chem & Rel Prod	41.7	40.3	-3.3
Crude Materials	52.9	51.1	-3.4
Primary Manuf Goods	20.5	18.8	-8.2
Food & Farm Prod	83.3	81.3	-2.5
Other	0.9	1.9	117.1

Figure 3-7
 PRINCIPAL COMMODITY GROUPS CARRIED BY WATER, 1996
 FOR THE MISSISSIPPI RIVER MAIN STEM
 (million short tons and percentage of short tons)

Total Commerce



Foreign Commerce



Domestic Commerce

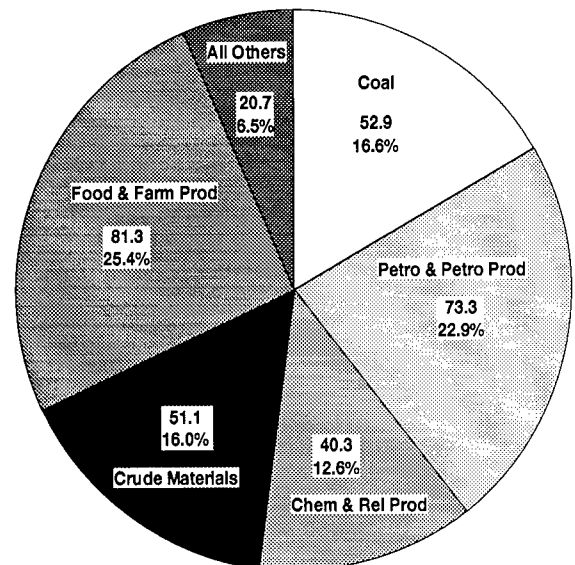


Figure 3-8
OHIO RIVER SYSTEM, 1977-1996
BY COMMODITY GROUP
(million short tons)

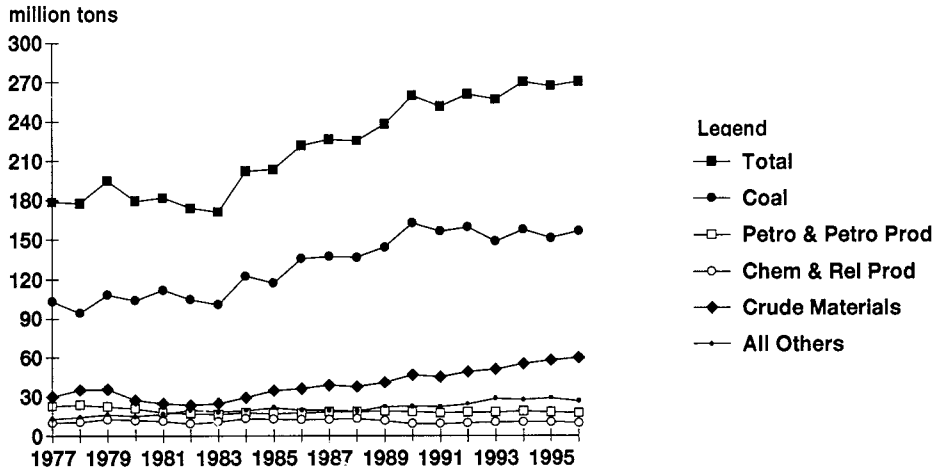


Table 3-8: OHIO RIVER SYSTEM, 1977-1996
BY COMMODITY GROUP
(million short tons)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	178.6	177.6	194.8	179.3	181.9	174.0	171.2	202.2	203.9	222.2
Coal	103.3	94.0	108.0	103.8	111.6	104.6	100.7	122.5	117.3	135.9
Petro & Petro Prod	22.7	23.6	22.4	21.1	17.9	17.1	16.5	17.9	17.1	17.6
Chem & Rel Prod	9.9	10.5	12.5	11.9	11.1	9.3	10.9	13.2	12.9	12.4
Crude Materials	30.0	35.3	35.7	27.5	24.7	23.4	24.8	29.4	34.9	36.4
Primary Manuf Goods	5.3	5.9	6.8	5.4	6.1	4.7	5.3	6.6	6.2	6.1
Food & Farm Prod	7.2	8.1	9.3	9.4	10.3	14.8	13.0	12.5	15.4	13.8
Other	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Total	226.7	225.9	238.4	260.0	251.9	261.4	257.3	270.5	267.6	270.9
Coal	137.3	136.7	144.6	163.0	156.8	159.8	149.0	157.9	151.7	156.5
Petro & Petro Prod	18.2	18.6	18.8	18.3	17.8	18.0	18.1	18.9	18.2	17.7
Chem & Rel Prod	12.6	13.3	11.7	9.1	9.4	10.0	10.4	10.6	10.7	9.8
Crude Materials	39.0	38.1	41.0	47.0	45.3	49.1	51.1	55.3	57.9	60.0
Primary Manuf Goods	6.1	6.5	7.0	7.2	7.4	7.5	8.6	11.2	11.6	11.7
Food & Farm Prod	13.5	12.5	15.2	15.3	15.0	16.9	20.0	16.6	17.4	15.0
Other	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2

Figure 3-9
PRINCIPAL COMMODITY GROUPS CARRIED BY WATER, 1996
FOR THE OHIO RIVER SYSTEM
 (million short tons and percentage of short tons)

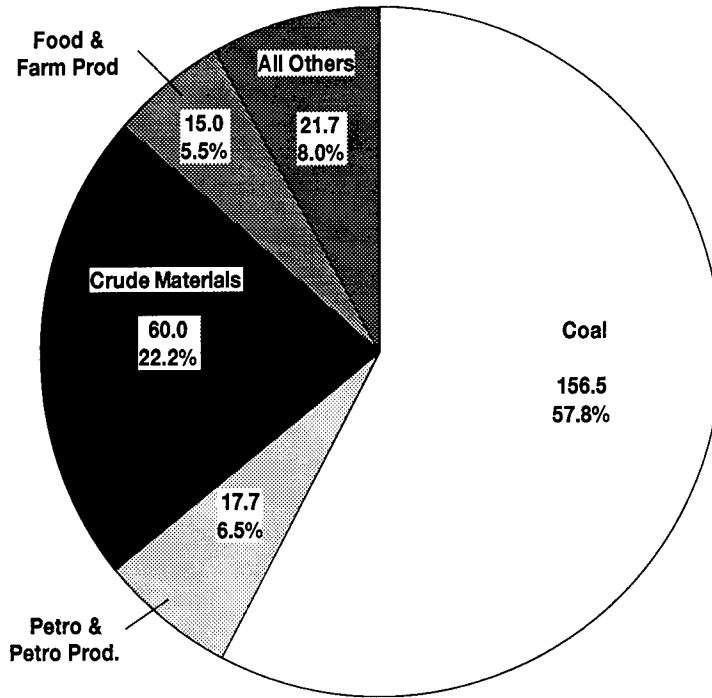


Table 3-9: PRINCIPAL COMMODITIES IN WATERBORNE COMMERCE, 1995-1996
FOR THE OHIO RIVER SYSTEM
 (million short tons)

	1995	1996	%Change
Total Commerce	267.6	270.9	1.2
Coal	151.7	156.5	3.2
Petroleum & Petroleum Products	18.2	17.7	-2.9
Chemicals & Related Products	10.7	9.8	-7.7
Crude Materials	57.9	60.0	3.6
Primary Manufactured Goods	11.6	11.7	0.7
Food & Farm Products	17.4	15.0	-14.1
Other	0.1	0.2	138.2

Figure 3-10
 GREAT LAKES, 1977-1996
 BY TYPE OF TRAFFIC
 (million short tons)

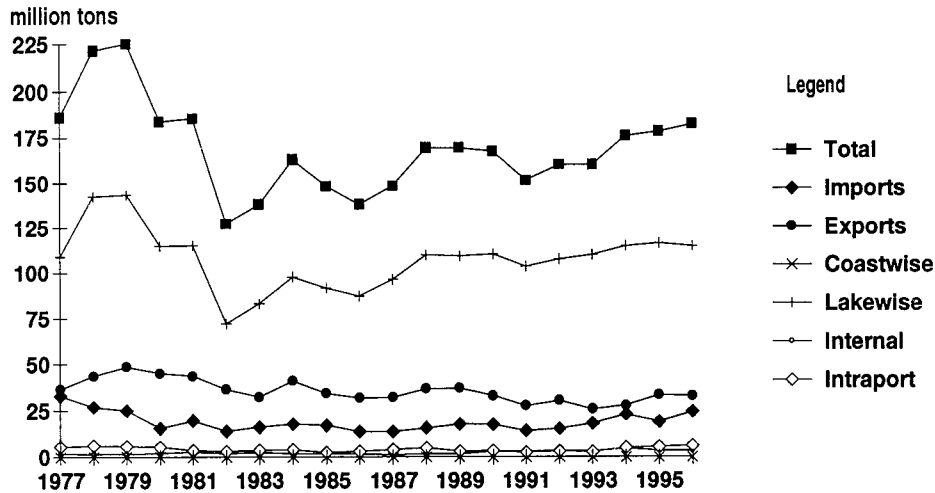


Table 3-10: GREAT LAKES, 1977-1996
 BY TYPE OF TRAFFIC*
 (million short tons)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	185.9	221.4	225.0	183.5	185.1	127.4	138.2	162.8	148.1	137.9
Imports	32.8	27.1	25.1	15.5	19.7	14.1	16.1	17.8	17.1	13.8
Exports	36.3	43.6	48.7	45.1	43.5	36.3	32.3	40.9	34.2	32.0
Coastwise	0.1	0.1	0.1	0.1	0.0	-	-	0.0	0.0	-
Lakewise	109.1	142.7	143.6	115.1	115.4	72.1	83.5	98.0	92.0	87.4
Internal	1.8	1.7	1.6	2.3	2.8	1.9	2.5	1.8	2.2	1.7
Intraport	5.8	6.3	5.9	5.4	3.7	3.0	3.8	4.2	2.7	3.0

	1987	1988	1989	1990	1991+	1992+	1993	1994	1995	1996
Total	148.1	168.8	168.9	167.1	151.1	159.9	159.6	175.3	177.8	181.8
Imports	13.9	15.9	17.8	17.6	14.2	15.4	18.1	23.1	18.9	24.5
Exports	32.1	36.6	37.1	32.9	27.5	30.4	25.8	27.8	33.5	32.8
Coastwise	0.0	-	0.0	0.0	-	0.0	0.0	0.0	-	--
Lakewise	96.5	109.7	109.1	110.2	103.4	107.4	109.9	114.8	116.2	115.0
Internal	1.4	1.6	1.7	3.1	3.2	3.4	3.1	4.6	3.6	3.3
Intraport	4.3	5.0	3.3	3.4	2.7	3.3	2.8	5.0	5.5	6.2

* Exports include Great Lakes Thru Foreign Traffic.

+Prior years tonnages have been changed to reflect the latest available information.

Figure 3-11
 GREAT LAKES, 1977-1996
 BY COMMODITY GROUP
 (million short tons)

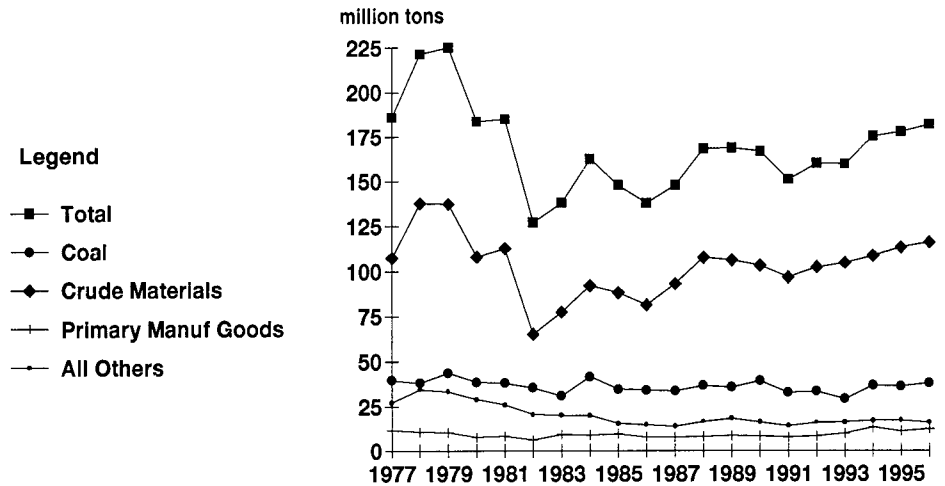


Table 3-11: GREAT LAKES, 1977-1996
 BY COMMODITY GROUP
 (million short tons)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	185.9	221.4	225.0	183.5	185.1	127.4	138.2	162.8	148.1	137.9
Coal	39.5	38.3	43.7	38.7	38.1	35.4	31.0	41.6	34.8	34.1
Petro & Petro Prod	11.6	12.0	11.7	8.9	7.5	5.9	5.3	5.5	5.1	5.3
Chem & Rel Prod	1.1	1.7	2.3	2.4	2.9	2.6	2.2	2.6	2.7	2.4
Crude Materials	107.5	137.8	137.4	108.1	112.8	65.3	77.5	92.2	88.2	81.3
Primary Manuf Goods	11.8	10.7	10.4	7.6	8.3	6.1	9.5	9.1	9.5	7.8
Food & Farm Prod	13.8	20.4	18.8	17.4	15.2	11.8	9.8	11.6	7.6	6.8
All Manuf Equip	0.6	0.5	0.6	0.4	0.4	0.3	2.8	0.2	0.2	0.2
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0

	1987	1988	1989	1990	1991+	1992+	1993	1994	1995	1996
Total	148.1	168.8	168.9	167.1	151.1	159.9	159.6	175.3	177.8	181.8
Coal	33.6	36.7	35.7	39.4	32.8	33.4	29.2	36.7	36.3	37.8
Petro & Petro Prod	4.9	6.5	6.3	6.4	5.5	5.8	5.2	5.9	5.5	6.2
Chem & Rel Prod	2.3	2.4	2.5	2.7	2.2	1.9	1.7	1.6	1.6	1.5
Crude Materials	93.1	107.5	106.2	103.1	96.5	102.2	104.5	108.4	113.1	115.9
Primary Manuf Goods	7.6	8.1	8.7	8.4	7.6	8.3	9.7	13.1	11.1	12.1
Food & Farm Prod	6.4	7.1	8.6	6.2	5.2	6.9	7.6	8.6	10.0	8.1
All Manuf Equip	0.2	0.4	0.8	1.0	1.1	1.3	1.4	0.8	0.2	0.2
Other	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0

+Prior years tonnages have been changed to reflect the latest available information.

Table 3-12: PRINCIPAL COMMODITIES IN WATERBORNE COMMERCE, 1995-1996
 FOR THE GREAT LAKES
 (million short tons)

	1995	1996	%Change
Total Commerce	177.8	181.8	2.3
Coal	36.3	37.8	4.3
Petro & Petro Prod	5.5	6.2	12.9
Chem & Rel Prod	1.6	1.5	-3.5
Crude Materials	113.1	115.9	2.4
Primary Manuf Goods	11.1	12.1	8.8
Food and Farm Prod	10.0	8.1	-19.0
Other	0.2	0.2	-5.3
Foreign Commerce	52.4	57.3	10.1
Coal	11.3	12.2	7.6
Petro & Petro Prod	1.6	2.1	33.7
Chem & Rel Prod	1.0	1.0	-3.3
Crude Materials	22.9	26.1	14.2
Primary Manuf Goods	6.2	8.1	30.2
Food and Farm Prod	9.3	7.7	-13.9
Other	0.1	0.1	1.5
Domestic Commerce	125.3	124.5	-0.7
Coal	25.0	25.7	2.8
Petro & Petro Prod	3.9	4.1	4.6
Chem & Rel Prod	0.5	0.5	-4.0
Crude Materials	90.2	89.7	-0.6
Primary Manuf Goods	4.9	4.0	-18.4
Food and Farm Prod	0.7	0.4	-38.3
Other	0.1	0.0	-24.1

Figure 3-12
PRINCIPAL COMMODITY GROUPS CARRIED BY WATER, 1996
FOR THE GREAT LAKES
 (million short tons and percentage of short tons)

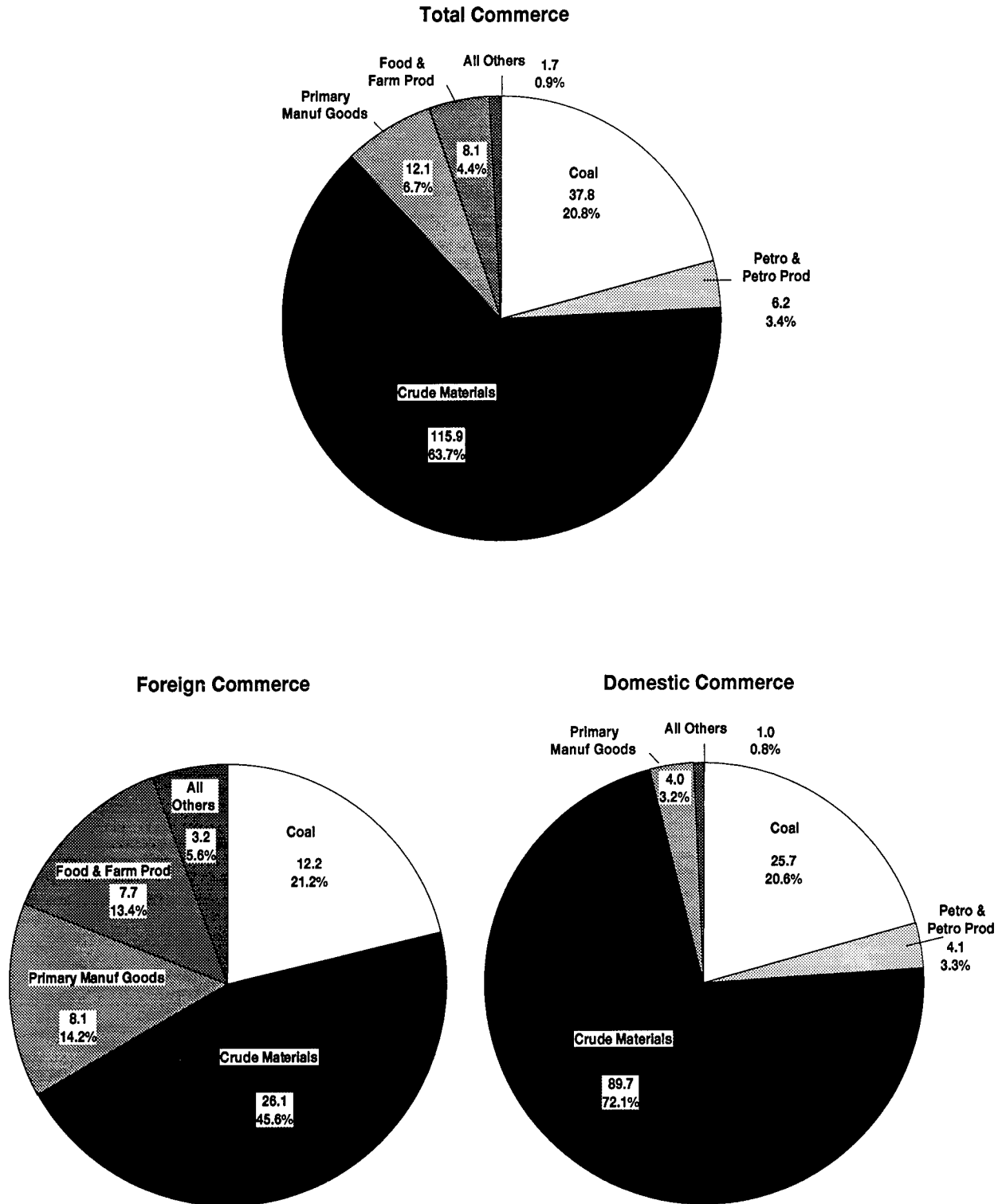


Figure 3-13
 GULF INTRACOASTAL WATERWAY, 1977-1996
 BY TYPE OF TRAFFIC
 (million short tons)

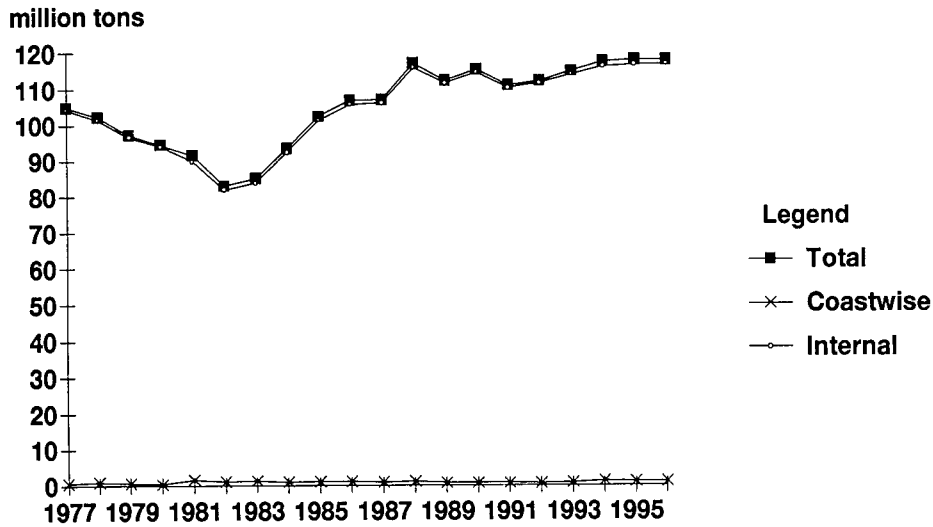


Table 3-13: GULF INTRACOASTAL WATERWAY, 1977-1996
 BY TYPE OF TRAFFIC
 (million short tons)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	104.9	102.3	97.3	94.5	91.6	83.0	85.1	93.4	102.5	107.0
Imports	-	-	-	-	-	-	-	-	0.0	0.0
Exports	-	-	-	-	-	-	-	0.0	0.0	0.1
Coastwise	0.6	0.9	0.6	0.4	1.7	1.1	1.3	1.0	1.1	1.2
Internal	104.3	101.4	96.7	94.1	89.9	81.9	83.8	92.4	101.3	105.7

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Total	107.0	117.7	112.7	115.4	111.0	112.3	114.9	117.6	118.0	118.0
Imports	0.0	0.4	0.3	-	-	-	-	-	-	-
Exports	0.0	0.2	0.1	-	-	-	-	-	-	-
Coastwise	0.9	1.2	0.8	0.7	0.7	0.7	0.9	1.3	1.2	1.1
Internal	106.1	115.9	111.6	114.6	110.3	111.6	114.1	116.3	116.8	116.9

Figure 3-14
 GULF INTRACOASTAL WATERWAY, 1977-1996
 BY COMMODITY GROUP
 (million short tons)

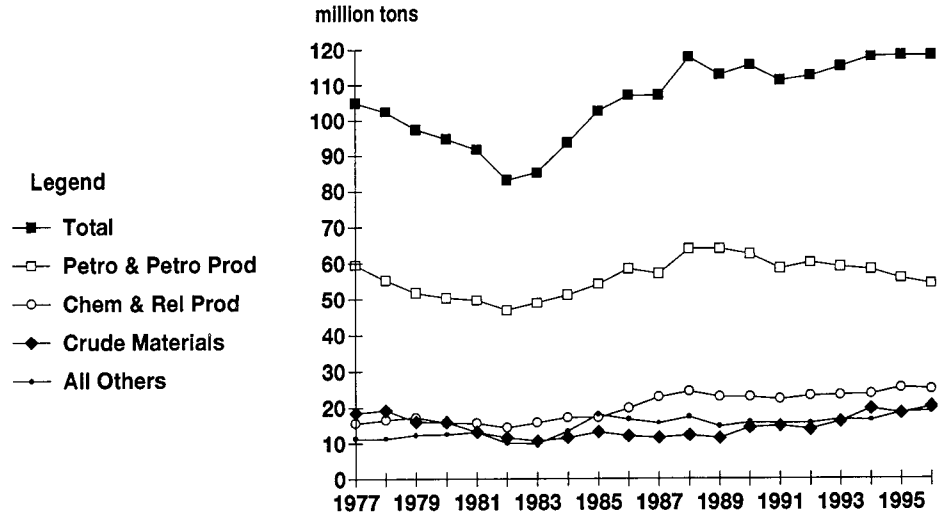


Table 3-14: GULF INTRACOASTAL WATERWAY, 1977-1996
 BY COMMODITY GROUP
 (million short tons)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	104.9	102.3	97.3	94.5	91.6	83.0	85.1	93.4	102.5	107.0
Coal	4.2	4.0	5.0	5.1	4.6	4.0	3.9	6.8	7.2	8.8
Petrol & Petrol Prod	59.6	55.3	51.8	50.4	49.7	46.9	49.0	51.2	54.2	58.4
Chem & Rel Prod	15.5	16.5	17.2	15.7	15.6	14.5	15.8	17.3	17.1	19.8
Crude Materials	18.5	19.2	16.0	15.9	13.2	11.5	10.6	11.6	13.1	12.1
Primary Manuf Goods	2.8	3.0	3.1	3.4	4.3	2.6	2.6	3.2	4.5	3.3
Food & Farm Prod	2.7	2.6	2.6	2.3	2.3	1.9	1.7	1.9	3.2	3.0
All Manuf Equip	0.9	0.9	0.6	0.6	0.7	0.4	0.4	0.4	1.6	0.7
Other	0.7	0.8	1.0	1.1	1.2	1.3	1.2	1.2	1.5	1.0

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Total	107.0	117.7	112.7	115.4	111.0	112.3	114.9	117.6	118.0	118.0
Coal	8.0	8.0	7.5	9.2	8.4	8.4	8.4	8.3	8.0	8.3
Petrol & Petrol Prod	57.0	63.8	63.8	62.4	58.4	60.0	58.9	58.1	55.7	54.2
Chem & Rel Prod	22.9	24.4	22.8	22.9	22.2	23.2	23.4	23.6	25.3	24.9
Crude Materials	11.5	12.2	11.4	14.4	14.8	13.9	16.0	19.6	18.3	20.1
Primary Manuf Goods	3.2	3.9	2.7	3.0	3.6	2.9	3.2	3.4	3.9	4.9
Food & Farm Prod	2.7	3.3	2.9	2.2	2.2	2.1	2.6	2.4	1.8	1.9
All Manuf Equip	0.7	1.0	0.5	0.4	0.3	0.5	0.8	0.8	4.1	3.0
Other	1.1	1.2	1.2	0.8	1.1	1.3	1.6	1.4	0.8	0.9

Figure 3-15
PRINCIPAL COMMODITY GROUPS CARRIED BY WATER, 1996
FOR THE GULF INTRACOASTAL WATERWAY
(million short tons and percentage of short tons)

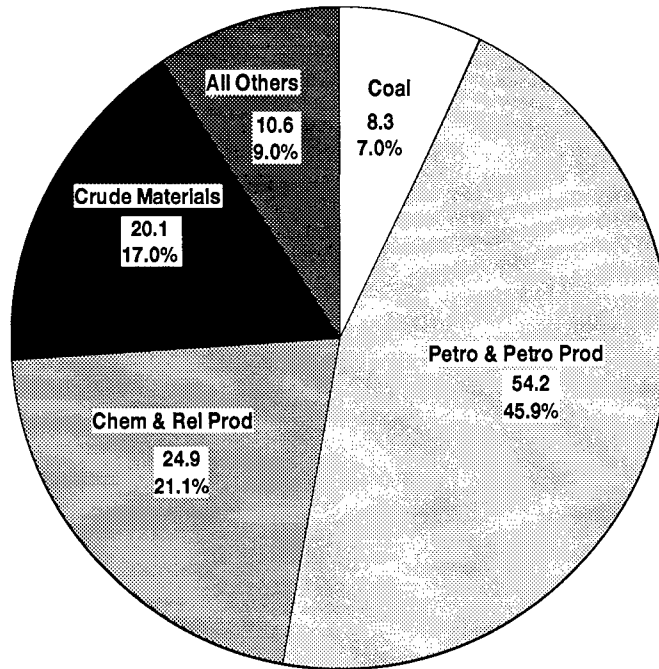


Table 3-15: PRINCIPAL COMMODITIES IN WATERBORNE COMMERCE, 1995-1996
FOR THE GULF INTRACOASTAL WATERWAY
(million short tons)

	1995	1996	% Change
Total Commerce	118.0	118.0	0.1
Coal	8.0	8.3	3.3
Petroleum & Petroleum Products	55.7	54.2	-2.7
Chemicals & Related Products	25.3	24.9	-1.7
Crude Materials	18.3	20.1	9.3
Primary Manufactured Goods	3.9	4.9	23.8
Food & Farm Products	1.8	1.9	9.1
All Manuf Equip	4.1	3.0	-26.8
Other	0.8	0.9	4.4

Figure 3-16
COLUMBIA RIVER, 1977-1996
BY TYPE OF TRAFFIC
(million short tons)

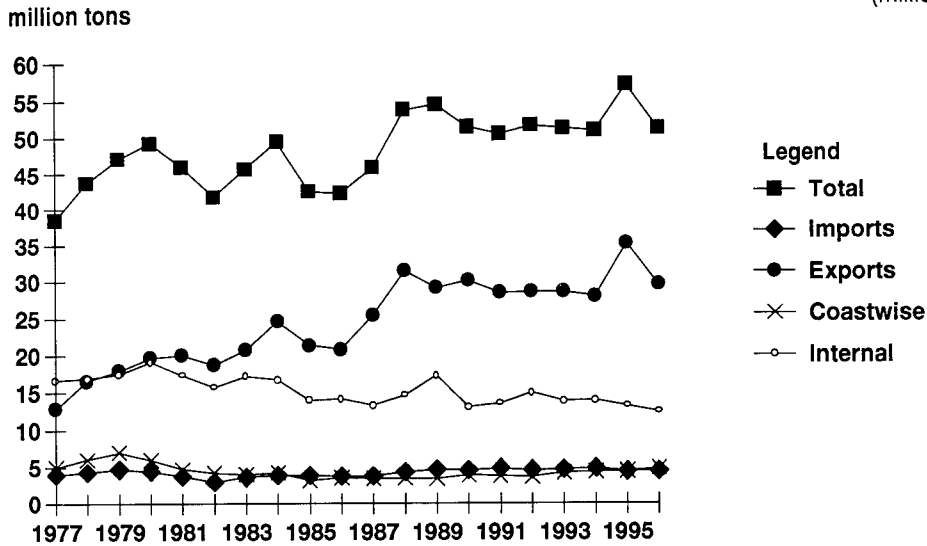


Table 3-16: COLUMBIA RIVER, 1977-1996
BY TYPE OF TRAFFIC*
(million short tons)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	38.5	43.7	47.1	49.2	45.9	41.7	45.6	49.4	42.4	42.2
Imports	4.0	4.3	4.8	4.5	3.8	3.1	3.7	4.0	3.9	3.8
Exports	12.8	16.5	17.9	19.7	20.0	18.6	20.7	24.5	21.3	20.7
Coastwise	5.0	6.0	7.0	6.0	4.8	4.3	4.1	4.3	3.2	3.6
Internal	16.6	16.9	17.4	19.1	17.4	15.7	17.1	16.6	14.0	14.1
	1987	1988	1989	1990	1991+	1992+	1993+	1994+	1995	1996
Total	45.7	53.8	54.5	51.4	50.4	51.6	51.2	50.9	57.1	51.2
Imports	3.8	4.3	4.7	4.5	4.8	4.6	4.7	4.8	4.4	4.5
Exports	25.3	31.3	29.1	30.0	28.4	28.5	28.5	27.9	35.1	29.5
Coastwise	3.4	3.5	3.5	3.9	3.8	3.6	4.2	4.3	4.5	4.8
Internal	13.2	14.6	17.2	13.0	13.5	14.9	13.8	13.9	13.1	12.4

*Imports include Upbound Thru Traffic. Exports include Downbound Thru Traffic.
+Prior years tonnages have been changed to reflect the latest available information.

Figure 3-17
COLUMBIA RIVER, 1977-1996
BY COMMODITY GROUP
(million short tons)

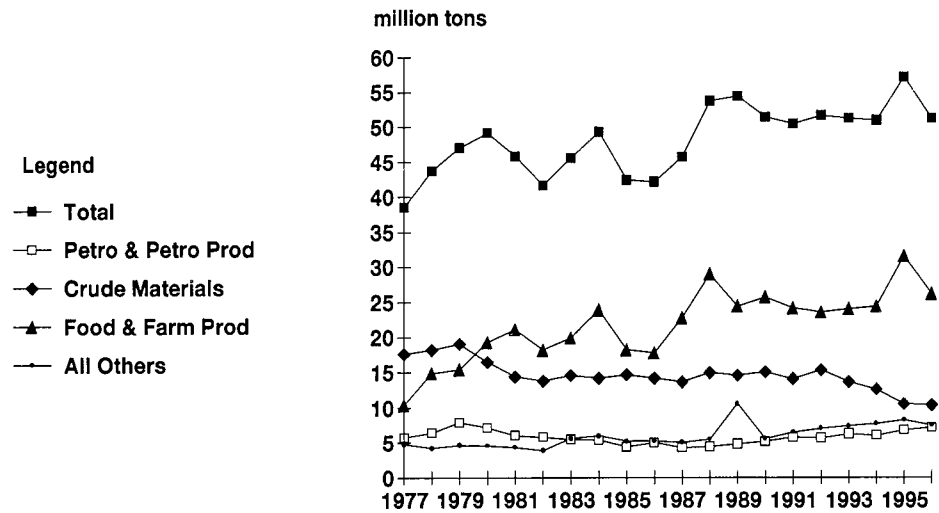


Table 3-17: COLUMBIA RIVER, 1977-1996
BY COMMODITY GROUP
(million short tons)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	38.5	43.7	47.1	49.2	45.9	41.7	45.6	49.4	42.4	42.2
Coal	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.4
Petro & Petro Prod	5.8	6.4	7.9	7.1	6.1	5.8	5.5	5.4	4.4	5.0
Chem & Rel Prod	2.1	1.5	1.5	1.6	1.4	0.9	1.4	1.7	1.9	1.9
Crude Materials	17.6	18.2	19.0	16.5	14.4	13.8	14.6	14.1	14.6	14.1
Primary Manuf Goods	2.2	2.2	2.3	2.1	2.1	1.7	2.1	2.3	2.3	2.2
Food & Farm Prod	10.4	14.9	15.4	19.3	21.1	18.2	19.9	23.9	18.2	17.8
All Manuf Equip	0.4	0.5	0.5	0.5	0.5	0.4	0.5	0.6	0.6	0.7
Other	0.0	0.0	0.4	0.3	0.3	0.8	1.5	1.1	0.2	0.0

	1987	1988	1989	1990	1991+	1992+	1993+	1994+	1995	1996
Total	45.7	53.8	54.5	51.4	50.4	51.6	51.2	50.9	57.1	51.2
Coal	0.5	0.5	0.5	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Petro & Petro Prod	4.3	4.4	4.8	5.1	5.8	5.7	6.2	6.0	6.8	7.1
Chem & Rel Prod	2.1	2.0	2.3	2.7	3.1	3.7	4.0	4.1	4.4	3.9
Crude Materials	13.6	14.9	14.6	15.0	14.1	15.3	13.6	12.6	10.5	10.4
Primary Manuf Goods	1.9	2.1	2.1	2.3	2.3	2.5	2.5	2.8	2.9	2.6
Food & Farm Prod	22.8	29.0	24.4	25.7	24.2	23.6	24.0	24.4	31.6	26.2
All Manuf Equip	0.4	0.8	0.7	0.6	0.7	0.7	0.7	0.8	0.8	0.8
Other	0.1	0.0	5.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2

+Prior years tonnages have been changed to reflect the latest available information.

Table 3-18: PRINCIPAL COMMODITIES IN WATERBORNE COMMERCE, 1995-1996
FOR THE COLUMBIA RIVER
(million short tons)

	1995	1996	%Change
Total Commerce	57.1	51.2	-10.4
Coal	0.0	0.0	-8.7
Petro & Petro Prod	6.8	7.1	5.0
Chem & Rel Prod	4.4	3.9	-12.1
Crude Materials	10.5	10.4	-1.6
Primary Manuf Goods	2.9	2.6	-9.9
Food & Farm Prod	31.6	26.2	-17.0
All Manuf Equip	0.8	0.8	4.2
Other	0.2	0.2	16.5
Foreign Commerce	39.5	34.0	-13.9
Coal	0.0	0.0	-8.7
Petro & Petro Prod	1.1	1.1	1.5
Chem & Rel Prod	3.5	3.3	-5.6
Crude Materials	6.6	6.7	0.7
Primary Manuf Goods	2.1	2.0	-7.0
Food & Farm Prod	25.5	20.3	-20.2
All Manuf Equip	0.7	0.6	-10.5
Other	0.0	0.0	117.8
Domestic Commerce	17.6	17.2	-2.6
Coal	0.0	0.0	0.0
Petro & Petro Prod	5.7	6.1	5.7
Chem & Rel Prod	0.9	0.6	-36.6
Crude Materials	3.9	3.7	-5.6
Primary Manuf Goods	0.8	0.6	-18.0
Food & Farm Prod	6.1	5.9	-3.6
All Manuf Equip	0.1	0.2	158.2
Other	0.2	0.2	12.4

Figure 3-18
 PRINCIPAL COMMODITY GROUPS CARRIED BY WATER, 1996
 FOR THE COLUMBIA RIVER
 (million short tons and percentage of short tons)

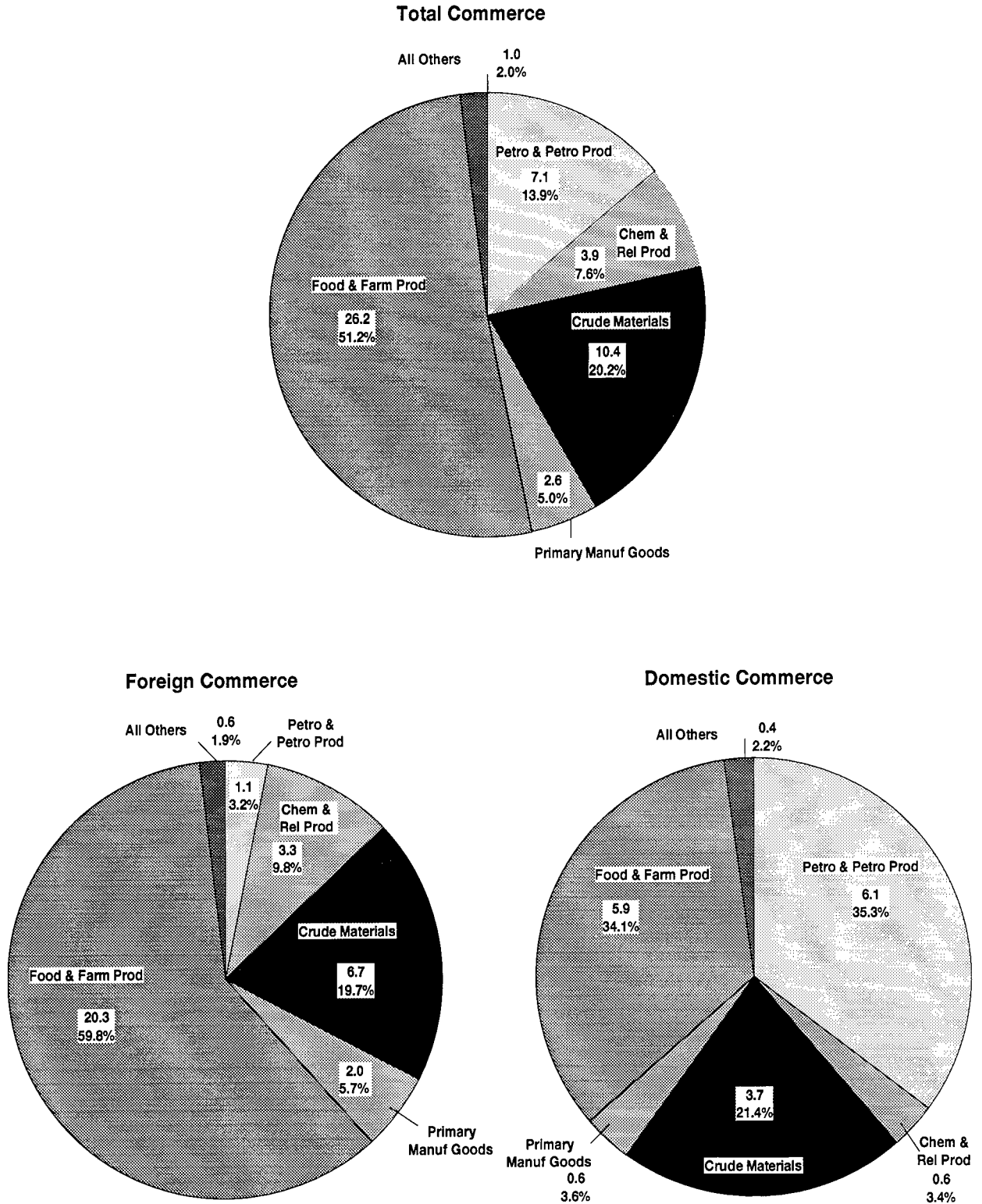


Figure 3-19
 SNAKE RIVER, 1977-1996
 BY COMMODITY GROUP
 (thousand short tons)

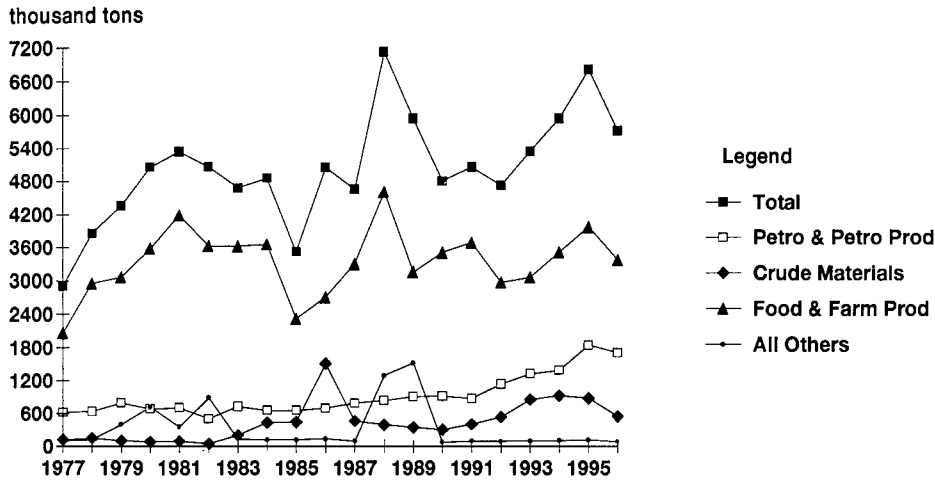


Table 3-19: SNAKE RIVER, 1977-1996
 BY COMMODITY GROUP
 (thousand short tons)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	2,911.2	3,852.3	4,356.7	5,063.6	5,053.2	5,065.3	4,679.1	4,852.0	3,518.8	5,042.6
Petro & Petro Prod	623.2	631.0	791.5	687.2	702.7	501.8	724.8	654.0	652.7	694.8
Chem & Rel Prod	59.6	56.9	45.1	56.8	41.4	51.0	25.7	26.3	27.2	45.2
Crude Materials	118.9	144.5	100.3	81.1	94.1	47.1	202.7	429.8	434.5	1,512.8
Primary Manuf Goods	39.0	59.2	76.6	37.7	34.0	35.5	85.2	71.7	74.4	45.9
Food & Farm Prod	2,068.8	2,957.9	3,065.8	3,583.6	4,187.4	3,629.9	3,625.3	3,653.5	2,316.8	2,704.4
All Manuf Equip	1.5	1.2	1.8	5.8	6.2	8.0	15.5	16.7	13.2	38.5
Waste & Scrap	0.4	-	264.5	611.4	269.4	792.0	-	-	-	0.9
Other	-	1.7	11.2	-	-	-	-	-	-	-

	1987	1988	1989	1990	1991	1992+	1993	1994	1995	1996
Total	4,644.9	7,125.1	5,930.3	4,804.0	5,053.2	4,719.3	5,339.1	5,929.1	6,803.9	5,707.4
Petro & Petro Prod	789.5	839.1	908.4	920.0	875.1	1,140.4	1,328.9	1,391.3	1,847.6	1,708.8
Chem & Rel Prod	36.2	22.9	33.1	14.8	41.3	35.4	50.9	43.4	41.3	52.0
Crude Materials	461.3	390.3	347.2	304.8	404.1	533.6	858.6	925.9	878.9	548.5
Primary Manuf Goods	45.6	52.2	45.3	53.8	45.0	43.2	40.0	46.0	64.5	18.0
Food & Farm Prod	3,301.3	4,601.1	3,148.8	3,503.2	3,682.4	2,961.4	3,055.8	3,510.7	3,963.6	3,369.1
All Manuf Equip	10.0	57.2	9.9	7.3	5.3	5.3	4.9	11.8	8.0	10.8
Waste & Scrap	1.0	1,162.2	1,437.5	-	-	-	-	-	-	0.2
Other	-	-	-	-	-	-	-	-	-	-

+Prior years tonnages have been changed to reflect the latest available information.

Figure 3-20
 PRINCIPAL COMMODITY GROUPS CARRIED BY WATER, 1996
 FOR THE SNAKE RIVER
 (thousand short tons and percentage of short tons)

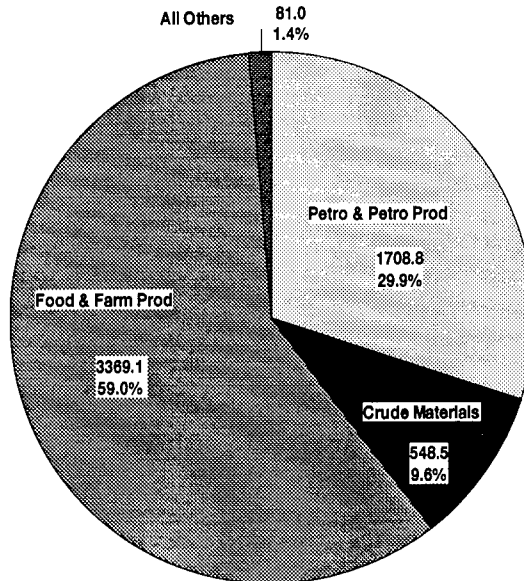


Table 3-20: PRINCIPAL COMMODITIES IN WATERBORNE COMMERCE, 1995-1996
 FOR THE SNAKE RIVER
 (thousand short tons)

	1995	1996	% Change
Total Commerce	6,803.9	5,707.4	-16.1
Petroleum & Petroleum Products	1,847.6	1,708.8	-7.5
Chemicals & Related Products	41.3	52.0	26.1
Crude Materials	878.9	548.5	-37.6
Primary Manufactured Goods	64.5	18.0	-72.1
Food & Farm Products	3,963.6	3,369.1	-15.0
All Manufactured Equipment	8.0	10.8	35.7
Waste & Scrap	-	0.2	-

Section 4 States

Table 4-1: WATERBORNE TONNAGE BY STATES, 1996
(thousand short tons)

State	Total*	Shipping		Receiving		Intrastate
		Domestic	Foreign	Domestic	Foreign	
Total	2,284,063	767,715	450,794	767,715	732,592	332,962
Alabama	73,932	10,496	12,368	19,673	13,135	18,261
Alaska	96,015	77,105	10,231	3,165	860	4,654
Arkansas	13,695	5,948	-	5,092	-	2,655
California	181,165	6,779	46,925	52,100	48,075	27,285
Connecticut	18,324	1,516	177	12,591	2,547	1,493
Delaware	25,799	13,765	526	1,502	7,502	2,504
District of Columbia	747	-	-	747	-	-
Florida	117,430	13,718	18,337	58,352	23,056	3,968
Georgia	19,979	759	7,935	2,747	8,340	197
Guam	437	26	-	410	-	-
Hawaii	21,250	1,250	950	6,128	6,289	6,632
Idaho	1,346	763	-	12	-	572
Illinois	113,938	79,335	825	18,653	3,540	11,584
Indiana	80,341	21,581	555	52,342	2,663	3,200
Iowa	14,713	10,265	-	3,713	-	735
Kansas	744	670	-	74	-	-
Kentucky	81,605	44,607	-	24,043	-	12,955
Louisiana	494,249	99,374	114,616	133,560	104,692	42,007
Maine	18,323	74	337	2,749	14,935	227
Maryland	47,885	5,184	15,259	9,181	14,313	3,948
Massachusetts	25,960	1,130	686	9,406	12,432	2,307
Michigan	80,309	27,474	6,229	23,392	7,984	15,230
Minnesota	52,195	37,970	5,451	5,957	1,000	1,816
Mississippi	46,177	13,619	3,626	9,147	18,749	1,035
Missouri	28,822	13,474	-	7,515	-	7,834
Nebraska	449	262	-	178	-	9
New Hampshire	3,709	65	128	859	2,650	7
New Jersey	98,985	25,845	5,962	26,594	36,243	4,342
New York	95,213	19,648	3,798	21,671	33,979	16,116
North Carolina	13,983	409	3,561	3,274	3,611	3,127
Ohio	123,459	24,247	13,535	61,193	5,762	18,722
Oklahoma	3,376	2,042	-	1,296	-	38
Oregon	36,742	3,506	16,541	7,634	3,204	5,859
Other	59,565	8,047	-	9,274	42,096	148
Pacific Islands	116	12	-	105	-	-
Pennsylvania	108,162	14,607	967	39,013	35,734	17,840
Puerto Rico	29,958	2,176	1,464	7,813	13,524	4,981
Rhode Island	8,250	232	418	4,128	3,400	72
South Carolina	16,345	257	5,892	4,103	5,994	100
Tennessee	43,963	7,592	-	32,878	-	3,493
Texas	385,585	48,533	53,765	23,943	209,355	49,988
Trans-Ship**	2,359	1,101	-	1,258	-	-
Vermont	-	-	-	-	-	-
Virgin Islands	42,464	19,402	1,120	2,892	18,613	436
Virginia	85,894	12,314	50,604	4,164	10,897	7,914
Washington	116,931	12,772	43,110	30,176	15,654	15,219
West Virginia	82,925	53,483	-	16,335	-	13,107
Wisconsin	37,966	24,279	4,895	6,683	1,765	343

*Excludes duplication.

**Ports and offshore anchorages where cargo is moved from one vessel to another. These are St. Lucia, Virgin Islands, Heald Bank off LA-TX coast, Cherique Grande, Panama, Puerto Amuelles, Panama and Hondo Platform-Pacific Ocean.

Table 4-2: WATERBORNE COMMERCE TONNAGE BY STATES, 1996, RANKED BY TOTAL TONS
(thousand short tons)

State	Total*	Shipping		Receiving		Intrastate
		Domestic	Foreign	Domestic	Foreign	
Totals	2,284,063	767,715	450,794	767,715	732,592	332,962
Louisiana	494,249	99,374	114,616	133,560	104,692	42,007
Texas	385,585	48,533	53,765	23,943	209,355	49,988
California	181,165	6,779	46,925	52,100	48,075	27,285
Ohio	123,459	24,247	13,535	61,193	5,762	18,722
Florida	117,430	13,718	18,337	58,352	23,056	3,968
Washington	116,931	12,772	43,110	30,176	15,654	15,219
Illinois	113,938	79,335	825	18,653	3,540	11,584
Pennsylvania	108,162	14,607	967	39,013	35,734	17,840
New Jersey	98,985	25,845	5,962	26,594	36,243	4,342
Alaska	96,015	77,105	10,231	3,165	860	4,654
New York	95,213	19,648	3,798	21,671	33,979	16,116
Virginia	85,894	12,314	50,604	4,164	10,897	7,914
West Virginia	82,925	53,483	-	16,335	-	13,107
Kentucky	81,605	44,607	-	24,043	-	12,955
Indiana	80,341	21,581	555	52,342	2,663	3,200
Michigan	80,309	27,474	6,229	23,392	7,984	15,230
Alabama	73,932	10,496	12,368	19,673	13,135	18,261
Other	59,565	8,047	-	9,274	42,096	148
Minnesota	52,195	37,970	5,451	5,957	1,000	1,816
Maryland	47,885	5,184	15,259	9,181	14,313	3,948
Mississippi	46,177	13,619	3,626	9,147	18,749	1,035
Tennessee	43,963	7,592	-	32,878	-	3,493
Virgin Islands	42,464	19,402	1,120	2,892	18,613	436
Wisconsin	37,966	24,279	4,895	6,683	1,765	343
Oregon	36,742	3,506	16,541	7,634	3,204	5,859
Puerto Rico	29,958	2,176	1,464	7,813	13,524	4,981
Missouri	28,822	13,474	-	7,515	-	7,834
Massachusetts	25,960	1,130	686	9,406	12,432	2,307
Delaware	25,799	13,765	526	1,502	7,502	2,504
Hawaii	21,250	1,250	950	6,128	6,289	6,632
Georgia	19,979	759	7,935	2,747	8,340	197
Connecticut	18,324	1,516	177	12,591	2,547	1,493
Maine	18,323	74	337	2,749	14,935	227
South Carolina	16,345	257	5,892	4,103	5,994	100
Iowa	14,713	10,265	-	3,713	-	735
North Carolina	13,983	409	3,561	3,274	3,611	3,127
Arkansas	13,695	5,948	-	5,092	-	2,655
Rhode Island	8,250	232	418	4,128	3,400	72
New Hampshire	3,709	65	128	859	2,650	7
Oklahoma	3,376	2,042	-	1,296	-	38
Trans-Ship**	2,359	1,101	-	1,258	-	-
Idaho	1,346	763	-	12	-	572
District of Columbia	747	-	-	747	-	-
Kansas	744	670	-	74	-	-
Nebraska	449	262	-	178	-	9
Guam	437	26	-	410	-	-
Pacific Islands	116	12	-	105	-	-
Vermont	-	-	-	-	-	-

*Excludes Duplication.

**Ports and offshore anchorages where cargo is moved from one vessel to another. These are St. Lucia, Virgin Islands, Heald Bank off LA-TX coast, Cherique Grande, Panama, Puerto Armuelles, Panama and Hondo Platform-Pacific Ocean.

Table 4-3: U.S. COMMERCIAL LANDINGS OF FISH, BY STATES, 1995 AND 1996*
(thousand pounds)

State	1995	1996	% Change	Year	Record Landing
Total	9,187,554	9,564,888	4.1	-	-
Alabama	28,741	26,579	-7.5	1973	36,744
Alaska	5,293,445	5,012,875	-5.3	1993	5,905,638
California	432,520	460,681	6.5	1936	1,760,193
Connecticut	21,914	20,949	-4.4	1930	88,012
Delaware	10,108	5,958	-41.1	1953	367,500
Florida	133,483	134,038	0.4	1938	241,443
Georgia	20,341	13,117	-35.5	1927	47,607
Hawaii	29,892	31,870	6.6	1993	34,582
Illinois	235	202	-14.0	-	**
Indiana	1,025	303	-70.4	-	**
Louisiana	1,110,220	1,130,639	1.8	1984	1,931,027
Maine	231,804	236,567	2.1	1950	356,266
Maryland	68,030	69,179	1.7	1890	141,607
Massachusetts	204,255	236,550	15.8	1948	649,696
Michigan	14,331	14,174	-1.1	1930	35,580
Minnesota	497	584	17.5	-	**
Mississippi	145,468	160,283	10.2	1984	476,997
New Hampshire	12,763	11,047	-13.4	-	**
New Jersey	177,177	179,306	1.2	1956	540,060
New York	53,210	56,732	6.6	1880	335,000
North Carolina	184,664	193,828	5.0	1981	432,006
Ohio	4,722	4,258	-9.8	1936	31,083
Oregon	238,764	264,113	10.6	1996	264,113
Pennsylvania	506	311	-38.5	-	**
Rhode Island	121,929	136,708	12.1	1957	142,080
South Carolina	24,162	15,788	-34.7	1965	26,611
Texas	94,674	91,593	-3.3	1960	237,684
Virginia	777,602	659,651	-15.2	1990	786,794
Washington	343,038	391,741	14.2	1994	527,804
Wisconsin	8,034	5,264	-34.5	-	**

Source: U.S. Department of Commerce, National Marine Fisheries Service.

*Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River Drainage Area States are not available.

**Data not available.

Section 5

Ports

Table 5-1: SELECTED U.S. PORTS BY PORT NAME, 1996
(short tons)

Rank	Port Name	Total	Foreign	Imports	Exports	Domestic
71	Albany, NY	5,767,708	1,265,364	812,769	452,595	4,502,344
109	Alpena, MI	2,345,044	181,585	47,885	133,700	2,163,459
44	Anacortes, WA	13,843,669	2,014,037	547,053	1,466,984	11,829,632
92	Anchorage, AK	3,400,568	1,136,032	297,897	838,135	2,264,536
54	Ashtabula, OH	9,523,147	3,806,599	592,865	3,213,734	5,716,548
17	Baltimore, MD	43,552,356	29,557,103	14,297,979	15,259,124	13,995,253
62	Barbers Point, Oahu, HI	8,745,039	5,304,468	4,545,080	759,388	3,440,571
5	Baton Rouge, LA	81,009,253	35,786,563	24,803,274	10,983,289	45,222,690
21	Beaumont, TX	35,705,109	18,819,234	15,806,368	3,012,866	16,885,875
133	Bellingham, WA	1,419,257	1,023,795	668,343	355,452	395,462
112	Biloxi, MS	2,266,417	-	-	-	2,266,417
33	Boston, MA	20,103,978	10,689,422	10,035,099	654,323	9,414,556
81	Bridgeport, CT	4,862,015	649,763	632,980	16,783	4,212,252
108	Brownsville, TX	2,401,280	1,228,807	585,472	643,335	1,172,473
116	Brunswick, GA	2,063,388	1,878,515	1,044,121	834,394	184,873
148	Bucksport, ME	1,029,135	690,829	668,789	22,040	338,306
121	Buffalo, NY	1,864,256	1,140,541	834,191	306,350	723,715
140	Buffington, IN	1,242,522	-	-	-	1,242,522
53	Burns Waterway Harbor, IN	9,847,873	2,361,217	1,967,706	393,511	7,486,656
63	Calcite, MI	8,669,387	1,778,174	7,896	1,770,278	6,891,213
72	Camden-Gloucester, NJ	5,765,260	3,304,474	2,788,871	515,603	2,460,786
51	Charleston, SC	11,082,558	6,823,960	3,253,047	3,570,913	4,258,598
125	Charlevoix, MI	1,665,865	64,205	-	64,205	1,601,660
104	Chattanooga, TN	2,717,613	-	-	-	2,717,613
107	Chester, PA	2,402,491	2,008,128	1,810,586	197,542	394,363
25	Chicago, IL	27,886,169	4,365,807	3,540,314	825,493	23,520,362
46	Cincinnati, OH	12,803,247	-	-	-	12,803,247
40	Cleveland, OH	16,720,837	3,977,549	3,367,610	609,939	12,743,288
74	Conneaut, OH	5,714,402	2,260,877	86,280	2,174,597	3,453,525
93	Coos Bay, OR	3,322,218	2,935,381	68,713	2,866,668	386,837
6	Corpus Christi, TX	80,460,088	56,618,145	49,158,007	7,460,138	23,841,943
35	Detroit, MI	18,603,745	6,293,640	5,646,698	646,942	12,310,105
124	Drummond Island, MI	1,681,900	301,068	6,062	295,006	1,380,832
19	Duluth-Superior, MN and WI	41,398,293	11,151,163	1,087,294	10,063,869	30,247,130
130	Erie, PA	1,433,725	266,054	266,054	-	1,167,671
56	Escanaba, MI	9,253,402	70,840	-	70,840	9,182,562
87	Everett, WA	4,007,238	1,204,825	594,527	610,298	2,802,413
103	Fairport Harbor, OH	2,770,276	306,610	105,791	200,819	2,463,666
95	Fall River, MA	3,180,225	1,047,104	1,044,153	2,951	2,133,121
29	Freeport, TX	24,570,954	19,198,104	17,474,251	1,723,853	5,372,850
49	Galveston, TX	11,640,754	7,659,777	2,726,346	4,933,431	3,980,977
59	Gary, IN	8,882,164	50,021	50,021	-	8,832,143
135	Georgetown, SC	1,379,408	1,223,047	1,154,038	69,009	156,361
117	Grays Harbor, WA	1,990,077	1,634,465	85,947	1,548,518	355,612
113	Green Bay, WI	2,176,192	442,101	428,827	13,274	1,734,091
106	Greenville, MS	2,543,382	-	-	-	2,543,382
115	Gulfport, MS	2,123,671	1,999,266	1,252,114	747,152	124,405
105	Guntersville, AL	2,597,760	-	-	-	2,597,760
111	Helena, AR	2,285,638	-	-	-	2,285,638
138	Hempstead, NY	1,329,385	-	-	-	1,329,385

Table 5-1: SELECTED U.S. PORTS BY PORT NAME, 1996 (continued)
(short tons)

Rank	Port Name	Total	Foreign	Imports	Exports	Domestic
129	Hilo, HI	1,441,507	85,004	83,729	1,275	1,356,503
48	Honolulu, HI	12,010,003	1,659,833	1,470,971	188,862	10,350,170
134	Hopewell, VA	1,394,904	516,266	3,654	512,612	878,638
2	Houston, TX	148,182,876	87,058,288	58,041,465	29,016,823	61,124,588
144	Humboldt, CA	1,196,796	579,705	19,554	560,151	617,091
26	Huntington, WV	27,478,215	-	-	-	27,478,215
149	Huron, OH	1,003,830	13,485	10,178	3,307	990,345
38	Indiana Harbor, IN	16,892,858	807,145	645,409	161,736	16,085,713
39	Jacksonville, FL	16,736,773	7,471,907	5,970,161	1,501,746	9,264,866
100	Kahului, Maui, HI	2,827,806	76,193	76,193	-	2,751,613
65	Kalama, WA	8,222,919	7,225,597	17,211	7,208,386	997,322
97	Kansas City, MO	3,009,981	-	-	-	3,009,981
137	Ketchikan, AK	1,340,609	227,745	60,641	167,104	1,112,864
15	Lake Charles, LA	49,096,325	29,350,839	24,779,328	4,571,511	19,745,486
9	Long Beach, CA	58,395,243	36,027,801	17,586,084	18,441,717	22,367,442
78	Longview, WA	5,162,634	4,297,973	495,498	3,802,475	864,661
41	Lorain, OH	15,977,949	121,947	121,947	-	15,856,002
16	Los Angeles, CA	45,689,232	27,758,490	14,303,313	13,455,177	17,930,742
61	Louisville, KY	8,779,342	-	-	-	8,779,342
142	Ludington, MI	1,236,834	143,869	94,400	49,469	1,092,965
101	Marblehead, OH	2,816,540	203,004	-	203,004	2,613,536
47	Marcus Hook, PA	12,365,946	5,165,837	5,125,343	40,494	7,200,109
86	Marine City, MI	4,116,212	-	-	-	4,116,212
126	Marquette, MI	1,598,125	-	-	-	1,598,125
146	Marysville, MI	1,067,783	281,942	122,440	159,502	785,841
57	Matagorda Ship Channel, TX	9,151,450	6,548,011	5,722,175	825,836	2,603,439
37	Memphis, TN	17,299,836	-	-	-	17,299,836
73	Miami, FL	5,719,107	4,656,607	2,153,209	2,503,398	1,062,500
99	Milwaukee, WI	2,858,231	1,433,037	1,168,619	264,418	1,425,194
127	Minneapolis, MN	1,567,477	-	-	-	1,567,477
12	Mobile, AL	50,863,944	25,495,470	13,133,946	12,361,524	25,368,474
123	Monroe, MI	1,794,335	30,176	5,626	24,550	1,764,159
75	Morehead City, NC	5,540,766	3,108,865	734,975	2,373,890	2,431,901
70	Mount Vernon, IN	6,985,531	-	-	-	6,985,531
114	Muskegon, MI	2,172,075	504,177	364,681	139,496	1,667,898
88	Nashville, TN	3,777,854	-	-	-	3,777,854
143	Nawiliwili, Kauai, HI	1,203,276	6,517	6,517	-	1,196,759
55	New Castle, DE	9,377,080	4,288,651	4,233,769	54,882	5,088,429
60	New Haven, CT	8,838,093	2,006,101	1,846,490	159,611	6,831,992
4	New Orleans, LA	83,726,470	46,912,501	20,840,444	26,072,057	36,813,969
3	New York, NY and NJ	131,601,244	56,485,614	48,472,360	8,013,254	75,115,630
28	Newport News, VA	24,787,261	18,637,855	1,904,438	16,733,417	6,149,406
80	Nikishka, AK	5,049,883	1,549,999	-	1,549,999	3,499,884
14	Norfolk Harbor, VA	49,260,972	38,887,811	5,831,442	33,056,369	10,373,161
50	Oakland, CA	11,229,862	8,649,532	2,948,029	5,701,503	2,580,330
120	Olympia, WA	1,893,029	160,780	21	160,759	1,732,249
110	Palm Beach, FL	2,293,615	813,328	265,314	548,014	1,480,287
96	Panama City, FL	3,123,941	594,907	141,462	453,445	2,529,034
24	Pascagoula, MS	29,342,671	20,292,753	17,450,158	2,842,595	9,049,918
27	Paulsboro, NJ	25,038,524	14,915,599	14,610,448	305,151	10,122,925

Table 5-1: SELECTED U.S. PORTS BY PORT NAME, 1996 (continued)
(short tons)

Rank	Port Name	Total	Foreign	Imports	Exports	Domestic
136	Pensacola, FL	1,378,971	127,632	37,330	90,302	1,251,339
18	Philadelphia, PA	41,882,200	28,866,925	28,221,332	645,593	13,015,275
11	Pittsburgh, PA	50,874,367	-	-	-	50,874,367
8	Plaquemines, LA, Port of	66,910,237	20,689,130	6,394,967	14,294,163	46,221,107
102	Port Angeles, WA	2,780,081	882,329	216,033	666,296	1,897,752
20	Port Arthur, TX	37,157,786	30,658,294	26,945,691	3,712,603	6,499,492
90	Port Canaveral, FL	3,566,630	1,951,214	1,510,143	441,071	1,615,416
94	Port Dolomite, MI	3,318,441	159,844	-	159,844	3,158,597
34	Port Everglades, FL	18,896,571	7,542,792	5,884,738	1,658,054	11,353,779
79	Port Inland, MI	5,062,723	459,193	31,215	427,978	4,603,530
98	Port Jefferson, NY	2,988,115	130,694	130,694	-	2,857,421
42	Portland, ME	15,242,802	13,369,237	13,289,315	79,922	1,873,565
23	Portland, OR	29,733,913	16,548,355	3,058,501	13,489,854	13,185,558
89	Portsmouth, NH	3,708,169	2,777,478	2,649,738	127,740	930,691
58	Presque Isle, MI	8,958,976	1,261,385	66,652	1,194,733	7,697,591
67	Providence, RI	7,802,779	3,608,791	3,193,689	415,102	4,193,988
150	Redwood City, CA	985,392	513,392	227,175	286,217	472,000
31	Richmond, CA	21,802,748	5,367,424	3,344,985	2,022,439	16,435,324
128	Richmond, VA	1,499,218	563,494	296,248	267,246	935,724
141	Sacramento, CA	1,239,858	1,032,004	133,638	898,366	207,854
132	Salem, MA	1,431,771	928,259	928,063	196	503,512
122	San Diego, CA	1,842,040	1,001,888	305,361	696,527	840,152
118	San Francisco, CA	1,982,145	1,416,928	345,640	1,071,288	565,217
43	San Juan, PR	15,112,223	4,788,159	3,991,274	796,885	10,324,064
91	Sandusky, OH	3,408,357	2,613,171	17,641	2,595,530	795,186
36	Savannah, GA	17,598,389	14,397,088	7,296,269	7,100,819	3,201,301
131	Searsport, ME	1,432,945	988,956	960,635	28,321	443,989
30	Seattle, WA	23,546,789	17,017,012	6,876,446	10,140,566	6,529,777
77	Silver Bay, MN	5,240,398	-	-	-	5,240,398
1	South Louisiana, LA, Port of	189,814,564	83,769,483	25,172,134	58,597,349	106,045,081
147	Stamford, CT	1,036,791	-	-	-	1,036,791
145	Stockton, CA	1,142,608	946,946	521,142	425,804	195,662
66	Stoneport, MI	7,989,550	838,620	37,959	800,661	7,150,930
76	St. Clair, MI	5,426,565	-	-	-	5,426,565
22	St. Louis, MO and IL	30,161,905	-	-	-	30,161,905
82	St. Paul, MN	4,755,765	-	-	-	4,755,765
32	Tacoma, WA	21,490,783	14,235,966	4,087,540	10,148,426	7,254,817
64	Taconite, MN	8,408,145	-	-	-	8,408,145
13	Tampa, FL	49,292,651	16,837,566	6,503,848	10,333,718	32,455,085
10	Texas City, TX	56,393,758	35,331,019	32,895,245	2,435,774	21,062,739
45	Toledo, OH	13,031,631	5,994,167	1,459,893	4,534,274	7,037,464
119	Tulsa, Port of Catoosa, OK	1,909,574	-	-	-	1,909,574
52	Two Harbors, MN	10,661,655	-	-	-	10,661,655
7	Valdez, AK	77,116,459	2,154,315	28,006	2,126,309	74,962,144
68	Vancouver, WA	7,703,713	5,719,911	844,785	4,875,126	1,983,802
83	Vicksburg, MS	4,728,437	-	-	-	4,728,437
84	Victoria, TX	4,351,045	-	-	-	4,351,045
139	Weedon Island, FL	1,300,587	-	-	-	1,300,587
85	Wilmington, DE	4,323,864	3,165,016	2,693,467	471,549	1,158,848
69	Wilmington, NC	7,581,853	4,063,779	2,876,506	1,187,273	3,518,074

Table 5-2: SELECTED U.S. PORTS, 1996, RANKED BY TOTAL TONS
(short tons)

Rank	Port Name	Total	Foreign	Imports	Exports	Domestic
1	South Louisiana, LA, Port of	189,814,564	83,769,483	25,172,134	58,597,349	106,045,081
2	Houston, TX	148,182,876	87,058,288	58,041,465	29,016,823	61,124,588
3	New York, NY and NJ	131,601,244	56,485,614	48,472,360	8,013,254	75,115,630
4	New Orleans, LA	83,726,470	46,912,501	20,840,444	26,072,057	36,813,969
5	Baton Rouge, LA	81,009,253	35,786,563	24,803,274	10,983,289	45,222,690
6	Corpus Christi, TX	80,460,088	56,618,145	49,158,007	7,460,138	23,841,943
7	Valdez, AK	77,116,459	2,154,315	28,006	2,126,309	74,962,144
8	Plaquemines, LA, Port of	66,910,237	20,689,130	6,394,967	14,294,163	46,221,107
9	Long Beach, CA	58,395,243	36,027,801	17,586,084	18,441,717	22,367,442
10	Texas City, TX	56,393,758	35,331,019	32,895,245	2,435,774	21,062,739
11	Pittsburgh, PA	50,874,367	-	-	-	50,874,367
12	Mobile, AL	50,863,944	25,495,470	13,133,946	12,361,524	25,368,474
13	Tampa, FL	49,292,651	16,837,566	6,503,848	10,333,718	32,455,085
14	Norfolk Harbor, VA	49,260,972	38,887,811	5,831,442	33,056,369	10,373,161
15	Lake Charles, LA	49,096,325	29,350,839	24,779,328	4,571,511	19,745,486
16	Los Angeles, CA	45,689,232	27,758,490	14,303,313	13,455,177	17,930,742
17	Baltimore, MD	43,552,356	29,557,103	14,297,979	15,259,124	13,995,253
18	Philadelphia, PA	41,882,200	28,866,925	28,221,332	645,593	13,015,275
19	Duluth-Superior, MN and WI	41,398,293	11,151,163	1,087,294	10,063,869	30,247,130
20	Port Arthur, TX	37,157,786	30,658,294	26,945,691	3,712,603	6,499,492
21	Beaumont, TX	35,705,109	18,819,234	15,806,368	3,012,866	16,885,875
22	St. Louis, MO and IL	30,161,905	-	-	-	30,161,905
23	Portland, OR	29,733,913	16,548,355	3,058,501	13,489,854	13,185,558
24	Pascagoula, MS	29,342,671	20,292,753	17,450,158	2,842,595	9,049,918
25	Chicago, IL	27,886,169	4,365,807	3,540,314	825,493	23,520,362
26	Huntington, WV	27,478,215	-	-	-	27,478,215
27	Paulsboro, NJ	25,038,524	14,915,599	14,610,448	305,151	10,122,925
28	Newport News, VA	24,787,261	18,637,855	1,904,438	16,733,417	6,149,406
29	Freeport, TX	24,570,954	19,198,104	17,474,251	1,723,853	5,372,850
30	Seattle, WA	23,546,789	17,017,012	6,876,446	10,140,566	6,529,777
31	Richmond, CA	21,802,748	5,367,424	3,344,985	2,022,439	16,435,324
32	Tacoma, WA	21,490,783	14,235,966	4,087,540	10,148,426	7,254,817
33	Boston, MA	20,103,978	10,689,422	10,035,099	654,323	9,414,556
34	Port Everglades, FL	18,896,571	7,542,792	5,884,738	1,658,054	11,353,779
35	Detroit, MI	18,603,745	6,293,640	5,646,698	646,942	12,310,105
36	Savannah, GA	17,598,389	14,397,088	7,296,269	7,100,819	3,201,301
37	Memphis, TN	17,299,836	-	-	-	17,299,836
38	Indiana Harbor, IN	16,892,858	807,145	645,409	161,736	16,085,713
39	Jacksonville, FL	16,736,773	7,471,907	5,970,161	1,501,746	9,264,866
40	Cleveland, OH	16,720,837	3,977,549	3,367,610	609,939	12,743,288
41	Lorain, OH	15,977,949	121,947	121,947	-	15,856,002
42	Portland, ME	15,242,802	13,369,237	13,289,315	79,922	1,873,565
43	San Juan, PR	15,112,223	4,788,159	3,991,274	796,885	10,324,064
44	Anacortes, WA	13,843,669	2,014,037	547,053	1,466,984	11,829,632
45	Toledo, OH	13,031,631	5,994,167	1,459,893	4,534,274	7,037,464
46	Cincinnati, OH	12,803,247	-	-	-	12,803,247
47	Marcus Hook, PA	12,365,946	5,165,837	5,125,343	40,494	7,200,109
48	Honolulu, HI	12,010,003	1,659,833	1,470,971	188,862	10,350,170
49	Galveston, TX	11,640,754	7,659,777	2,726,346	4,933,431	3,980,977
50	Oakland, CA	11,229,862	8,649,532	2,948,029	5,701,503	2,580,330

Table 5-2: SELECTED U.S. PORTS, 1996, RANKED BY TOTAL TONS (continued)
(short tons)

Rank	Port Name	Total	Foreign	Imports	Exports	Domestic
51	Charleston, SC	11,082,558	6,823,960	3,253,047	3,570,913	4,258,598
52	Two Harbors, MN	10,661,655	-	-	-	10,661,655
53	Burns Waterway Harbor, IN	9,847,873	2,361,217	1,967,706	393,511	7,486,656
54	Ashtabula, OH	9,523,147	3,806,599	592,865	3,213,734	5,716,548
55	New Castle, DE	9,377,080	4,288,651	4,233,769	54,882	5,088,429
56	Escanaba, MI	9,253,402	70,840	-	70,840	9,182,562
57	Matagorda Ship Channel, TX	9,151,450	6,548,011	5,722,175	825,836	2,603,439
58	Presque Isle, MI	8,958,976	1,261,385	66,652	1,194,733	7,697,591
59	Gary, IN	8,882,164	50,021	50,021	-	8,832,143
60	New Haven, CT	8,838,093	2,006,101	1,846,490	159,611	6,831,992
61	Louisville, KY	8,779,342	-	-	-	8,779,342
62	Barbers Point, Oahu, HI	8,745,039	5,304,468	4,545,080	759,388	3,440,571
63	Calcite, MI	8,669,387	1,778,174	7,896	1,770,278	6,891,213
64	Taconite, MN	8,408,145	-	-	-	8,408,145
65	Kalama, WA	8,222,919	7,225,597	17,211	7,208,386	997,322
66	Stoneport, MI	7,989,550	838,620	37,959	800,661	7,150,930
67	Providence, RI	7,802,779	3,608,791	3,193,689	415,102	4,193,988
68	Vancouver, WA	7,703,713	5,719,911	844,785	4,875,126	1,983,802
69	Wilmington, NC	7,581,853	4,063,779	2,876,506	1,187,273	3,518,074
70	Mount Vernon, IN	6,985,531	-	-	-	6,985,531
71	Albany, NY	5,767,708	1,265,364	812,769	452,595	4,502,344
72	Camden-Gloucester, NJ	5,765,260	3,304,474	2,788,871	515,603	2,460,786
73	Miami, FL	5,719,107	4,656,607	2,153,209	2,503,398	1,062,500
74	Conneaut, OH	5,714,402	2,260,877	86,280	2,174,597	3,453,525
75	Morehead City, NC	5,540,766	3,108,865	734,975	2,373,890	2,431,901
76	St. Clair, MI	5,426,565	-	-	-	5,426,565
77	Silver Bay, MN	5,240,398	-	-	-	5,240,398
78	Longview, WA	5,162,634	4,297,973	495,498	3,802,475	864,661
79	Port Inland, MI	5,062,723	459,193	31,215	427,978	4,603,530
80	Nikishka, AK	5,049,883	1,549,999	-	1,549,999	3,499,884
81	Bridgeport, CT	4,862,015	649,763	632,980	16,783	4,212,252
82	St. Paul, MN	4,755,765	-	-	-	4,755,765
83	Vicksburg, MS	4,728,437	-	-	-	4,728,437
84	Victoria, TX	4,351,045	-	-	-	4,351,045
85	Wilmington, DE	4,323,864	3,165,016	2,693,467	471,549	1,158,848
86	Marine City, MI	4,116,212	-	-	-	4,116,212
87	Everett, WA	4,007,238	1,204,825	594,527	610,298	2,802,413
88	Nashville, TN	3,777,854	-	-	-	3,777,854
89	Portsmouth, NH	3,708,169	2,777,478	2,649,738	127,740	930,691
90	Port Canaveral, FL	3,566,630	1,951,214	1,510,143	441,071	1,615,416
91	Sandusky, OH	3,408,357	2,613,171	17,641	2,595,530	795,186
92	Anchorage, AK	3,400,568	1,136,032	297,897	838,135	2,264,536
93	Coos Bay, OR	3,322,218	2,935,381	68,713	2,866,668	386,837
94	Port Dolomite, MI	3,318,441	159,844	-	159,844	3,158,597
95	Fall River, MA	3,180,225	1,047,104	1,044,153	2,951	2,133,121
96	Panama City, FL	3,123,941	594,907	141,462	453,445	2,529,034
97	Kansas City, MO	3,009,981	-	-	-	3,009,981
98	Port Jefferson, NY	2,988,115	130,694	130,694	-	2,857,421
99	Milwaukee, WI	2,858,231	1,433,037	1,168,619	264,418	1,425,194
100	Kahului, Maui, HI	2,827,806	76,193	76,193	-	2,751,613

Table 5-2: SELECTED U.S. PORTS, 1996. RANKED BY TOTAL TONS (continued)
(short tons)

Rank	Port Name	Total	Foreign	Imports	Exports	Domestic
101	Marblehead, OH	2,816,540	203,004	-	203,004	2,613,536
102	Port Angeles, WA	2,780,081	882,329	216,033	666,296	1,897,752
103	Fairport Harbor, OH	2,770,276	306,610	105,791	200,819	2,463,666
104	Chattanooga, TN	2,717,613	-	-	-	2,717,613
105	Guntersville, AL	2,597,760	-	-	-	2,597,760
106	Greenville, MS	2,543,382	-	-	-	2,543,382
107	Chester, PA	2,402,491	2,008,128	1,810,586	197,542	394,363
108	Brownsville, TX	2,401,280	1,228,807	585,472	643,335	1,172,473
109	Alpena, MI	2,345,044	181,585	47,885	133,700	2,163,459
110	Palm Beach, FL	2,293,615	813,328	265,314	548,014	1,480,287
111	Helena, AR	2,285,638	-	-	-	2,285,638
112	Biloxi, MS	2,266,417	-	-	-	2,266,417
113	Green Bay, WI	2,176,192	442,101	428,827	13,274	1,734,091
114	Muskegon, MI	2,172,075	504,177	364,681	139,496	1,667,898
115	Gulfport, MS	2,123,671	1,999,266	1,252,114	747,152	124,405
116	Brunswick, GA	2,063,388	1,878,515	1,044,121	834,394	184,873
117	Grays Harbor, WA	1,990,077	1,634,465	85,947	1,548,518	355,612
118	San Francisco, CA	1,982,145	1,416,928	345,640	1,071,288	565,217
119	Tulsa, Port of Catoosa, OK	1,909,574	-	-	-	1,909,574
120	Olympia, WA	1,893,029	160,780	21	160,759	1,732,249
121	Buffalo, NY	1,864,256	1,140,541	834,191	306,350	723,715
122	San Diego, CA	1,842,040	1,001,888	305,361	696,527	840,152
123	Monroe, MI	1,794,335	30,176	5,626	24,550	1,764,159
124	Drummond Island, MI	1,681,900	301,068	6,062	295,006	1,380,832
125	Charlevoix, MI	1,665,865	64,205	-	64,205	1,601,660
126	Marquette, MI	1,598,125	-	-	-	1,598,125
127	Minneapolis, MN	1,567,477	-	-	-	1,567,477
128	Richmond, VA	1,499,218	563,494	296,248	267,246	935,724
129	Hilo, HI	1,441,507	85,004	83,729	1,275	1,356,503
130	Erie, PA	1,433,725	266,054	266,054	-	1,167,671
131	Searsport, ME	1,432,945	988,956	960,635	28,321	443,989
132	Salem, MA	1,431,771	928,259	928,063	196	503,512
133	Bellingham, WA	1,419,257	1,023,795	668,343	355,452	395,462
134	Hopewell, VA	1,394,904	516,266	3,654	512,612	878,638
135	Georgetown, SC	1,379,408	1,223,047	1,154,038	69,009	156,361
136	Pensacola, FL	1,378,971	127,632	37,330	90,302	1,251,339
137	Ketchikan, AK	1,340,609	227,745	60,641	167,104	1,112,864
138	Hempstead, NY	1,329,385	-	-	-	1,329,385
139	Weedon Island, FL	1,300,587	-	-	-	1,300,587
140	Buffington, IN	1,242,522	-	-	-	1,242,522
141	Sacramento, CA	1,239,858	1,032,004	133,638	898,366	207,854
142	Ludington, MI	1,236,834	143,869	94,400	49,469	1,092,965
143	Nawiliwili, Kauai, HI	1,203,276	6,517	6,517	-	1,196,759
144	Humboldt, CA	1,196,796	579,705	19,554	560,151	617,091
145	Stockton, CA	1,142,608	946,946	521,142	425,804	195,662
146	Marysville, MI	1,067,783	281,942	122,440	159,502	785,841
147	Stamford, CT	1,036,791	-	-	-	1,036,791
148	Bucksport, ME	1,029,135	690,829	668,789	22,040	338,306
149	Huron, OH	1,003,830	13,485	10,178	3,307	990,345
150	Redwood City, CA	985,392	513,392	227,175	286,217	472,000

Appendix

ORDERING GUIDE FOR THE NAVIGATION DATA CENTER REPORTS

Waterborne Commerce, Vessel and Locks Statistics

<u>Title</u>	<u>Sales Price*</u>
Waterborne Commerce of the United States (WCUS)	
Part 1 WCUS, Waterways and Harbors on the Atlantic Coast.	\$ 13.00
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Manuscript Data on diskette	5.00
Part 2 WCUS, Waterways and Harbors on the Gulf Coast, Mississippi River System and Antilles.	15.00
1st Class Postage	6.00
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Part 3 WCUS, Waterways and Harbors of the Great Lakes	6.00
1st Class Postage	3.00
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1st Class Postage	5.00
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Hardcopy	15.00
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Volume 1 National Summaries	2.00
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Vessel Company Information on diskette (decompressing utility included).	5.00
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Complimentary Copies

- The U.S. Waterway System - FACTS
- Tonnage for Selected United States Ports
- State Tonnage Report (Total waterborne commerce by state)
- Estimated Waterborne Commerce Statistics, National Totals and Selected Inland Waterways
- Summary of United States Flag Vessels
- Summary of Lock Statistics (Contact: Bob Baldwin, (703) 428-8047)

* Effective with the calendar year 1994 publications.

Material may be ordered from Waterborne Commerce Statistics Center, U.S. Army Corps of Engineers, P.O. Box 61280, New Orleans, LA 70161-1280. Checks or money orders should be made out to FAO-USAED, New Orleans. Point of contact is Ms. Peggy Galliano (504) 862-1424, FAX (504) 862-1423.
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Ordering Guide for Port Series Reports

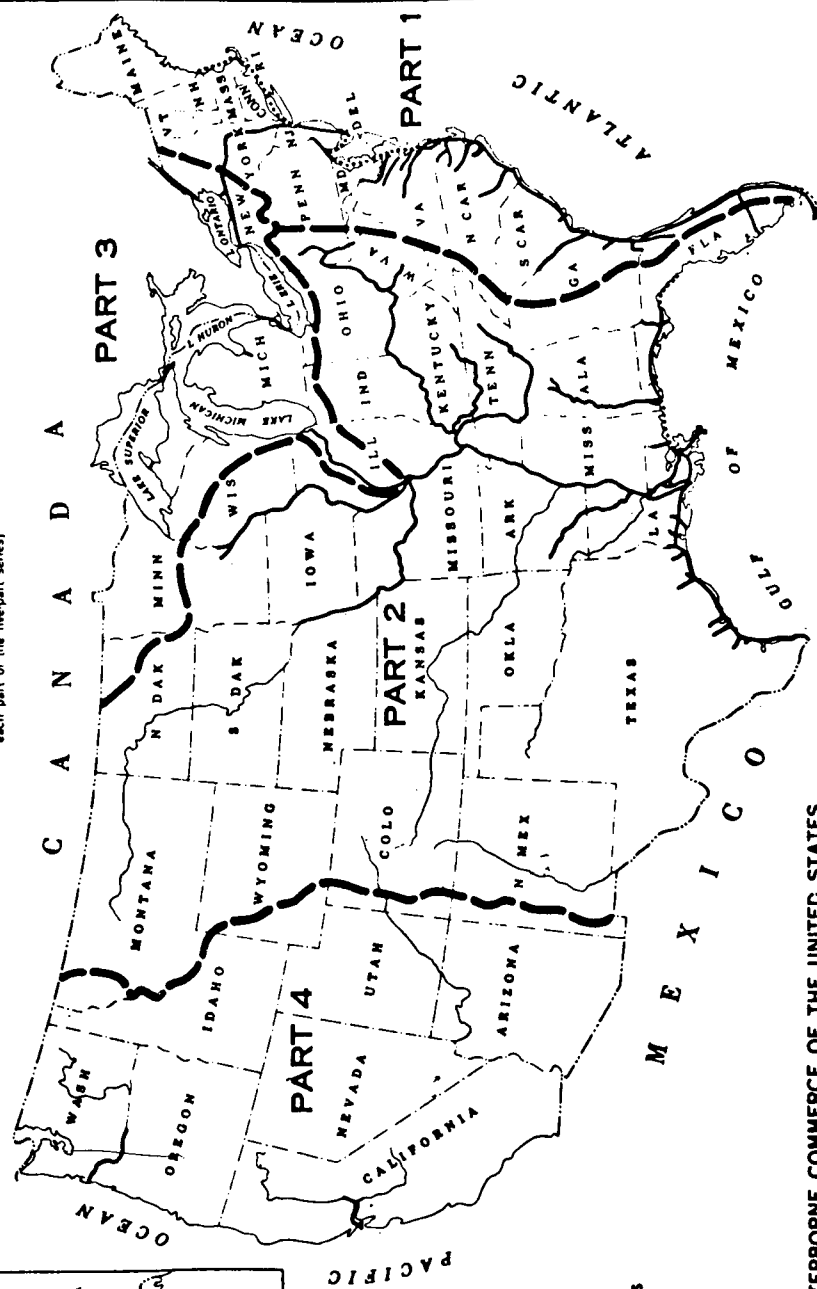
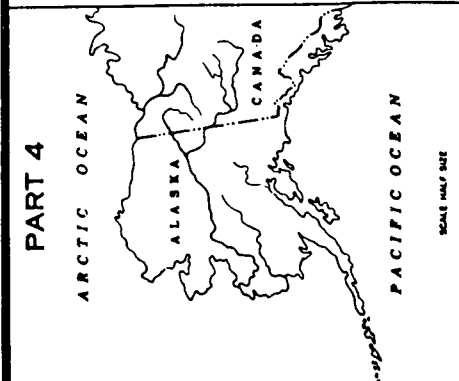
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1	Portland and Searsport, ME, and Portsmouth, NH	1985	\$ 7.00
3	Boston, MA	1994	14.00
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5	New York, NY, and NJ, and Ports on Long Island, NY	1999	*
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10	Baltimore, MD	1991	8.00
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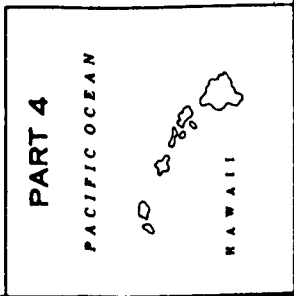
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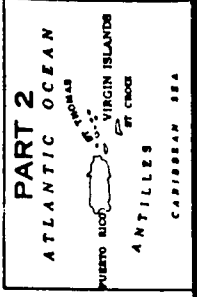
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INLAND WATERWAYS LEGEND
 ——— PRINCIPAL IMPROVED WATERWAYS
 (IN OPEN WATER)



- WATERBORNE COMMERCE OF THE UNITED STATES**
- Part 1 - Atlantic Coast
 - Part 2 - Gulf Coast, Mississippi River System and Antilles
 - Part 3 - Great Lakes
 - Part 4 - Pacific Coast, Alaska and Hawaii
 - Part 5 - Waterborne Commerce of the United States
(National Summary)



PART 5

REPORT DOCUMENTATION PAGE

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