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# **WATERBORNE COMMERCE OF THE UNITED STATES**

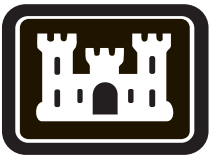
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Calendar Year 2002

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Part 5—  
National Summaries

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Compiled under the supervision of  
the Institute for Water Resources  
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Alexandria, 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 U.S. Bureau of the Census, U.S. Customs, and purchased from the Journal of Commerce, Port Import Export Reporting Service..**

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 in 1996, fish are excluded from internal and intraport domestic traffic. The fish landing data in Table 4-3 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, export and in-transit traffic between the United States, Puerto Rico and the Virgin Islands and any foreign country. These statistics do not include traffic between any foreign country and the United States Territories and Possessions (American Samoa, Guam, North Mariana Islands and U.S. Outlying Islands).

Beginning with the calendar year 2000 publication, foreign waterborne import, export and in-transit cargo statistics are derived primarily from data purchased from the Port Import Export Reporting Service, a division of the Journal of Commerce and supplemented by data furnished to the Corps of Engineers by the U.S. Bureau of the Census and the U.S.

Customs Service. Foreign cargo is matched to the vessel moves to improve geographic specificity.

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 International 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). A dash means zero tons. A zero represents tonnage that rounds down to zero. 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.

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**Ton-Miles**

Ton-miles shown in Part 5 are national totals. 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.

**Special Interest**

Errata were issued for the calendar year 2000 **WCUS, Parts 1-5** publications to correct a conversion factor problem with inbound foreign crude petroleum. The corrected publications are on our web site:

[www.iwr.usace.army.mil/ndc/wcsc/wcsc.htm](http://www.iwr.usace.army.mil/ndc/wcsc/wcsc.htm)

# Terminology

## Types of Traffic

### *Foreign*

**Inbound:** Includes waterborne imports and inbound in-transit merchandise.

#### **Imports**

**Overseas:** Inbound merchandise originating in foreign countries other than Canada and arriving by marine vessel for direct U.S. consumption and entries into custom bonded storage and manufacturing warehouses.

**Canadian:** Inbound merchandise originating in Canada and arriving by marine vessel for direct U.S. consumption and entries into custom bonded storage and manufacturing warehouses.

**Inbound In-transits:** Merchandise coming into the United States by marine vessel from a foreign country and shipped to a foreign country without having been entered as an import. In-transit merchandise is treated as inbound when unloaded from a marine vessel.

**Outbound:** Includes waterborne exports and outbound in-transit merchandise.

#### **Exports**

**Overseas:** Outbound domestic merchandise and re-export of foreign merchandise from a U.S. foreign trade zone shipped by marine vessel to foreign countries other than Canada.

**Canadian:** Outbound domestic merchandise and re-export of foreign merchandise from a U.S. foreign trade zone shipped by marine vessel to Canada.

**Outbound In-transits:** Merchandise coming into the United States from a foreign country and shipped by marine vessel to a foreign country without having been entered as an import. In-transit merchandise is treated as outbound when loaded onto a marine 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:** Shipments and receipts 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 International 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:** Ton-miles in Part 5 are national totals. 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 from the point of loading onto the vessel to the point of unloading off of the vessel. Coastwise ton-miles includes the distance across open ocean and the Gulf of Mexico.

For rivers, inland waterways and coastal routes the distances were computed from waterway survey maps , NOAA charts and records of the Corps of Engineers.

For the Great Lakes system the ton-miles are computed for movements of cargo west of the international boundary of St. Regis, Quebec, Canada to head of Lake Superior at Duluth, MN and Superior, WI.

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

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

For overseas imports and exports, and in-transits foreign ton-miles are computed by multiplying the cargo tonnage by the miles carried on U.S. waterways and channels. Distances across the oceans are not included in the computation of the overseas foreign ton-miles.

Ton-miles are rounded to the nearest million.

**Trip Ton-miles:** Trip ton-miles is a measure of a single waterway's contribution to the whole waterway system. Trip ton-miles are computed by identifying every commercial cargo-carrying vessel that has plied a particular inland waterway and summing the products of the tons times the total trip-miles for each vessel trip. "Trip-miles" is the total distance from origin (loading) to destination (unloading). For example, a barge carrying 1,200 tons of wheat might only travel 30 miles on the Illinois River but its total trip to New Orleans might be 1,000 miles. This trip would contribute 1,200,000 trip ton-miles to the Illinois River. Small rivers often contribute to the traffic on larger rivers. Published trip ton-miles do not include coastal and Great Lakes vessel movements.

**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

Major Grouping
Minor Grouping
Pub Group Pub Name

00 Units

 0200 Vehicles  
 0300 Passengers

10 Coal

 1100 Coal  
 1200 Coal Coke

20 Petroleum &amp; Petroleum Products

21 Crude Petroleum

2100 Crude Petroleum

22-29 Petroleum Products

 2211 Gasoline  
 2221 Kerosene  
 2330 Distillate Fuel Oil  
 2340 Residual Fuel Oil  
 2350 Lube Oil & Greases  
 2410 Petro. Jelly & Waxes  
 2429 Naphtha & Solvents  
 2430 Asphalt, Tar & Pitch  
 2540 Petroleum Coke  
 2640 Liquid Natural Gas  
 2990 Petro. Products NEC

30 Chemicals and Related Products

31 Fertilizers

 3110 Nitrogenous Fert.  
 3120 Phosphatic Fert.  
 3130 Potassic Fert.  
 3190 Fert. & Mixes NEC

32 Other Chemicals and

Related Products

 3211 Acyclic Hydrocarbons  
 3212 Benzene & Toluene  
 3219 Other Hydrocarbons  
 3220 Alcohols  
 3230 Carboxylic Acids  
 3240 Nitrogen Func. Comp.  
 3250 Organo-Inorganic Comp.  
 3260 Organic Comp. NEC  
 3271 Sulphur (Liquid)  
 3272 Sulphuric Acid  
 3273 Ammonia  
 3274 Sodium Hydroxide  
 3275 Inorg. Elem., Oxides,  
       & Halogen Salts  
 3276 Metallic Salts  
 3279 Inorganic Chem. NEC

Major Grouping
Minor Grouping
Pub Group Pub Name

 3281 Radioactive Material  
 3282 Pigments & Paints  
 3283 Coloring Mat. NEC  
 3284 Medicines  
 3285 Perfumes & Cleansers  
 3286 Plastics  
 3291 Pesticides  
 3292 Starches, Glue, etc., Glue  
 3293 Explosives  
 3297 Chemical Additives  
 3298 Wood & Resin Chem.  
 3299 Chem. Products NEC

40 Crude Materials, Inedible Except Fuels

41 Forest Products, Wood and Chips

 4110 Rubber & Gums  
 4150 Fuel Wood  
 4161 Wood Chips  
 4170 Wood in the Rough  
 4189 Lumber  
 4190 Forest Products NEC

42 Pulp and Waste Paper

4225 Pulp &amp; Waste Paper

43 Soil, Sand, Gravel, Rock and Stone

 4310 Building Stone  
 4322 Limestone  
 4323 Gypsum  
 4327 Phosphate Rock  
 4331 Sand & Gravel  
 4333 Dredged Material  
 4335 Waterway Improv. Mat  
 4338 Soil & Fill Dirt

44 Iron Ore and Scrap

 4410 Iron Ore  
 4420 Iron & Steel Scrap

45 Marine Shells

4515 Marine Shells

46 Non-Ferrous Ores and Scrap

 4630 Copper Ore  
 4650 Aluminum Ore  
 4670 Manganese Ore  
 4680 Non-Ferrous Scrap  
 4690 Non-Ferrous Ores NEC

47 Sulphur, Clay and Salt

 4741 Sulphur, (Dry)  
 4782 Clay & Refrac. Mat.  
 4783 Salt

48 Slag

4860 Slag

## Commodity Classification List (continued)

Major GroupingMinor GroupingPub Group Pub Name

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

50 Primary Manufactured Goods

51 Paper Products  
5110 News print  
5120 Paper & Paper board  
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 Shell fish)  
6136 Shell fish

62- 64 Grain  
6241 Wheat  
6344 Corn  
6442 Rice  
6443 Barley & Rye  
6445 Oats  
6447 Sorghum Grains

65 Oil seeds  
6521 Peanuts  
6522 Soy beans  
6534 Flax seed  
6590 Oil seeds NEC

66 Vegetable Products  
6653 Vegetable Oils  
6654 Vegetables & Prod.

67 Processed Grain and Animal Feed  
6746 Wheat Flour  
6747 Grain Mill Products

Major GroupingMinor GroupingPub Group Pub Name

6781 Hay & Fod der  
6782 Animal Feed, Prep.

68 Other Agricultural Products  
6811 Meat, Fresh, Fro zen  
6817 Meat, Pre pared  
6822 Dairy Products  
6835 Fish, Pre pared  
6838 Tal low, Ani mal Oils  
6839 Ani mals & Prod. NEC  
6856 Ba nanas & Plan tains  
6857 Fruit & Nuts NEC  
6858 Fruit Juices  
6861 Sugar  
6865 Mo las ses  
6871 Coffee  
6872 Co coa Beans  
6885 Al co holic Bever ages  
6887 Gro cer ies  
6888 Wa ter & Ice  
6889 Food Products NEC  
6891 To bacco & Products  
6893 Cot ton  
6894 Natu ral Fi bers 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 Manu fac. Wood Prod.  
7500 Textile Products  
7600 Rubber & Plastic Pr.  
7800 Empty Containers  
7900 Manu fac. Prod. NEC

80 Waste and Scrap NEC  
8900 Waste and Scrap NEC

90 Unknown or Not Else where Classified  
99 Unknown or Not Else where Clsfd  
9900 Unknown or NEC

# Section 1

## National Summaries

Figure 1-1: MAJOR WATERWAYS

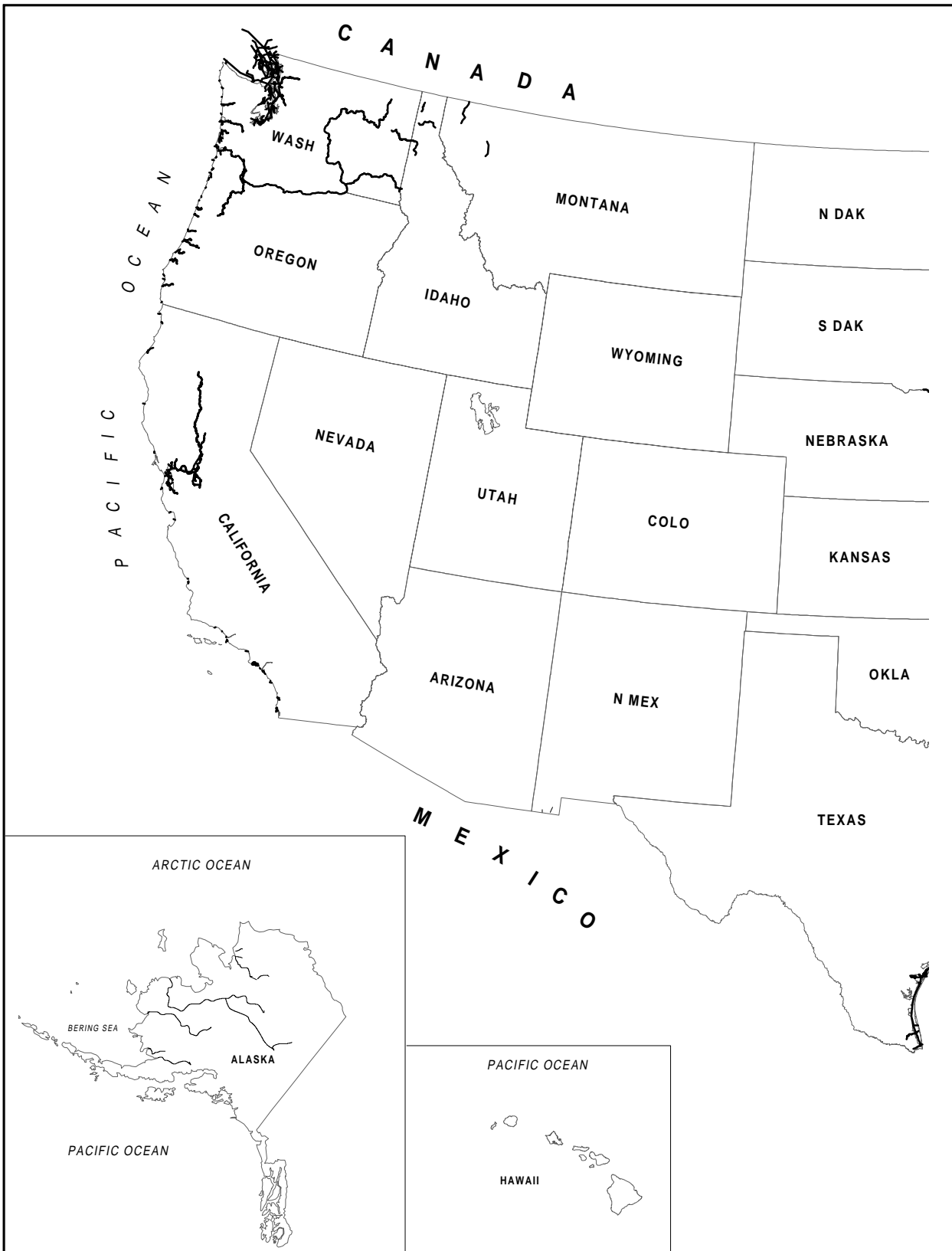




Figure 1-2  
 TOTAL WATERBORNE COMMERCE OF THE U.S., 1963-2002  
 (million short tons)

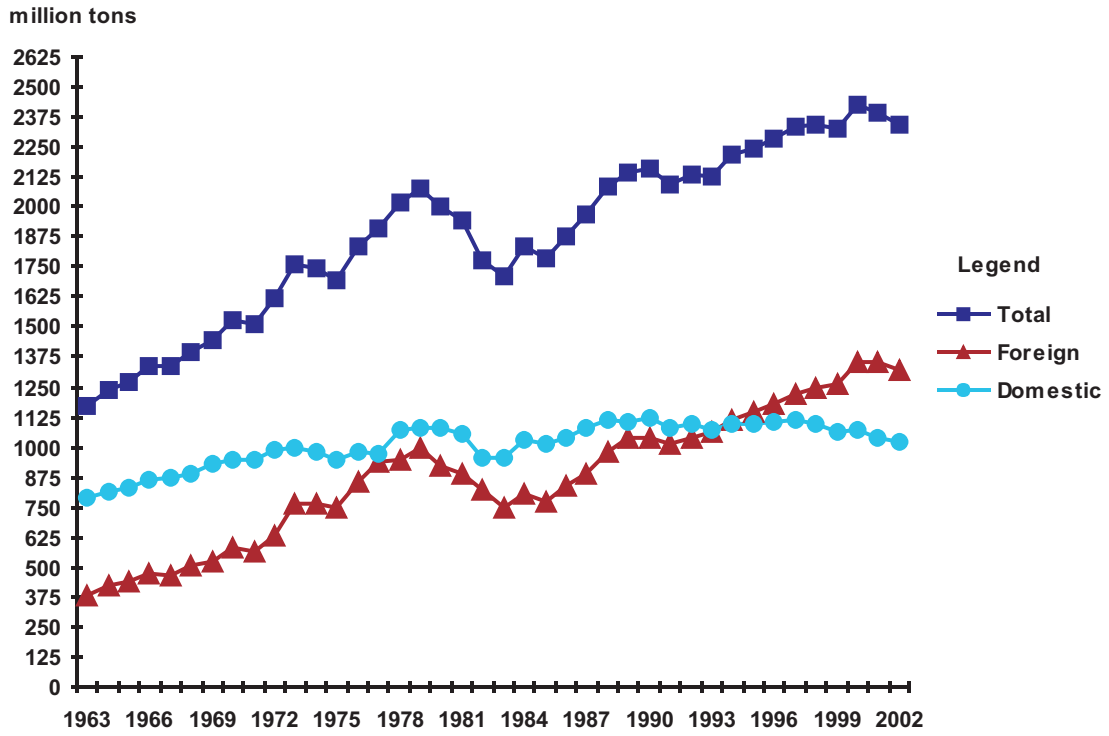




Table 1-1: TOTAL WATERBORNE COMMERCE OF THE U.S., 1963-2002  
(in short tons of 2000 pounds)

Year	Total	Foreign	Domestic
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
1997	2,333,142,046	1,220,615,132	1,112,526,914
1998	2,339,500,081	1,245,388,049	1,094,112,032
1999	2,322,557,251	1,260,770,656	1,061,786,595
2000	2,424,588,877	1,354,790,984	1,069,804,693
2001	2,393,298,249	1,350,826,076	1,042,472,173
<b>2002</b>	<b>2,340,291,913</b>	<b>1,319,290,931</b>	<b>1,021,000,982</b>

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

Table 1-2: FOREIGN WATERBORNE COMMERCE OF THE U.S., 1963-2002  
(in short tons of 2000 pounds)

Year	Inbound				Outbound			
	Total	Coastal	Great Lakes		Total	Coastal	Great Lakes	
			Canadian	Overseas			Canadian	Overseas
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
1997	788,302,568	763,770,891	19,984,130	4,547,547	432,312,564	399,103,578	29,718,807	3,490,179
1998	840,680,379	815,122,429	19,645,061	5,912,889	404,707,670	367,831,224	32,290,468	4,585,978
1999	860,775,000	838,578,522	18,112,543	4,083,935	399,995,656	359,762,874	36,256,293	3,976,489
2000	939,748,625	915,831,649	19,369,124	4,547,852	415,042,359	374,911,407	36,295,686	3,835,266
2001	951,815,354	929,794,190	18,920,172	3,100,992	399,010,722	358,491,237	37,350,838	3,168,647
<b>2002</b>	<b>934,941,092</b>	<b>929,794,228</b>	<b>18,195,566</b>	<b>3,352,501</b>	<b>384,349,839</b>	<b>346,283,525</b>	<b>35,324,766</b>	<b>2,741,548</b>

Table 1-3: DOMESTIC WATERBORNE COMMERCE OF THE U.S., 1963-2002  
(in short tons of 2000 pounds)

Year	Total	Coastwise	Lakewise	Internal	Intraport	Intra-territory
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
1997	1,112,526,914	263,145,835	122,734,048	630,558,223	89,816,062	6,272,746
1998	1,094,112,032	249,633,315	122,156,449	625,028,190	90,076,701	7,217,377
1999	1,061,786,595	228,801,887	113,887,247	624,574,894	88,649,805	5,872,762
2000	1,069,797,893	226,937,548	114,352,406	628,444,991	94,558,249	5,504,699
2001	1,042,472,173	223,605,585	100,002,083	619,783,990	93,222,071	5,858,444
<b>2002</b>	<b>1,021,000,982</b>	<b>216,395,545</b>	<b>101,466,070</b>	<b>608,038,126</b>	<b>90,004,416</b>	<b>5,096,825</b>

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

Table 1-4: TOTAL WATERBORNE COMMERCE, 1983-2002  
TON-MILES, SHORT TONS AND AVERAGE HAUL<sup>+++</sup> BY TYPE OF TRAFFIC

Year	Grand Total	Foreign			Domestic				
		Total	Great Lakes	Coastal	Total	Coastwise	Lakewise	Internal	Intraport
Ton-Miles <sup>***</sup> (millions)									
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
1997	813,800.1	106,390.2	*32,535.9	**73,854.3	707,409.9	349,843.0	62,165.9	294,023.0	1,378.1
1998	780,449.8	107,704.5	*34,136.7	**73,567.8	672,795.3	314,863.9	61,654.3	294,896.4	1,380.7
1999	764,447.5	108,585.9	*34,846.7	**73,739.2	655,861.5	292,730.0	57,045.2	304,724.1	1,362.2
2000	763,421.1	117,621.8	*38,623.3	**78,998.5	645,799.3	283,871.6	57,879.1	302,558.4	1,490.2
2001	736,930.0	115,243.8	*36,580.1	**78,663.8	621,686.2	274,558.8	50,853.5	294,860.9	1,413.0
<b>2002</b>	<b>721,421.7</b>	<b>109,341.1</b>	<b>*34,921.3</b>	<b>**74,419.9</b>	<b>612,080.5</b>	<b>263,688.2</b>	<b>53,652.9</b>	<b>293,410.3</b>	<b>1,329.0</b>
Tons (millions)									
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
1997	2,326.9	1,220.6	57.7	1,162.9	1,106.3	263.1	122.7	630.6	89.8
1998	2,332.3	1,245.4	62.4	1,183.0	1,086.9	249.6	122.2	625.0	90.1
1999	2,316.7	1,260.8	62.4	1,198.3	1,055.9	228.8	113.9	624.6	88.60
2000	2,419.1	1,354.8	64.0	1,290.7	1,064.3	226.9	114.4	628.4	94.6
2001	2,387.4	1,350.8	62.5	1,288.3	1,036.6	223.6	100.0	619.8	93.2
<b>2002</b>	<b>2,335.2</b>	<b>1,319.3</b>	<b>59.6</b>	<b>1,259.7</b>	<b>1,015.9</b>	<b>216.4</b>	<b>101.5</b>	<b>608.0</b>	<b>90.0</b>

\* 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 intra-territory 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.  
+++ "Average Haul" is the average distance a ton of cargo travels by water. It is computed by dividing the number of ton-miles by the number of tons.

*Table 1-4: TOTAL WATERBORNE COMMERCE, 1983-2002*  
**TON-MILES, SHORT TONS AND AVERAGE HAUL+++ BY TYPE OF TRAFFIC**  
 (continued)

Year	Grand Total	Foreign			Domestic					
		Total	Great Lakes	Coastal	Total	Coastwise	Lakewise	Internal	Intraport	
Average Haul*** (miles)										
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	
1997	349.7	87.2	563.5	63.5	639.5	1,329.5	506.5	466.3	15.3	
1998	334.7	86.5	546.8	62.2	619.0	1,261.3	504.7	471.8	15.3	
1999	330.0	86.1	558.2	61.5	621.1	1,279.4	500.9	487.9	15.4	
2000	315.6	86.8	603.0	61.2	606.8	1,250.9	506.1	481.4	15.8	
2001	308.7	85.3	584.9	61.1	599.7	1,227.9	508.5	475.7	15.2	
<b>2002</b>	<b>308.9</b>	<b>82.9</b>	<b>585.8</b>	<b>59.1</b>	<b>602.5</b>	<b>1,218.5</b>	<b>528.8</b>	<b>482.6</b>	<b>14.8</b>	

\*\*\* Excludes intra-territory 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.

+++ "Average Haul" is the average distance a ton of cargo travels by water. It is computed by dividing the number of ton-miles by the number of tons.

Figure 1-3  
TOTAL WATERBORNE COMMERCE, 1983-2002  
BY COMMODITY GROUP  
(million short tons)

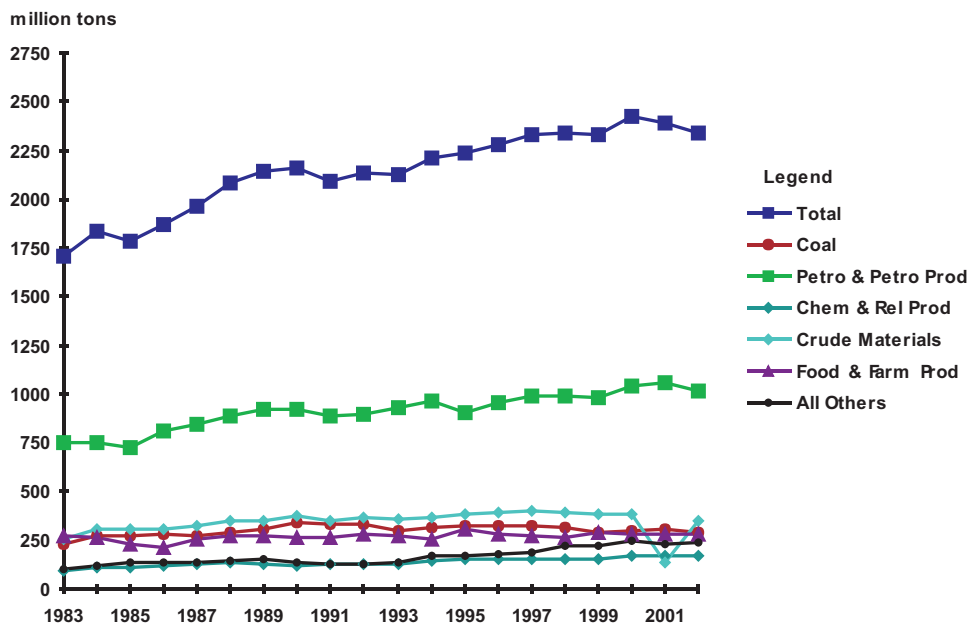


Table 1-5: TOTAL WATERBORNE COMMERCE, 1983-2002  
BY COMMODITY GROUP  
(million short tons)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
<b>Total</b>	<b>1,707.7</b>	<b>1,836.0</b>	<b>1,788.4</b>	<b>1,874.4</b>	<b>1,967.5</b>	<b>2,088.0</b>	<b>2,140.4</b>	<b>2,163.9</b>	<b>2,092.1</b>	<b>2,132.1</b>
Coal	229.8	271.8	273.9	283.9	271.3	292.2	304.8	339.9	336.8	332.2
Petro & Petro Prod	748.5	753.5	726.4	815.6	847.7	887.7	922.7	923.5	886.0	899.6
Chem & Rel Prod	96.7	115.1	114.3	118.6	129.0	138.8	127.8	123.8	125.1	128.7
Crude Materials	260.0	307.1	307.1	308.4	327.1	352.0	353.2	374.9	348.9	364.0
Primary Manuf Goods	56.4	69.3	76.9	76.0	76.5	79.5	77.8	76.0	71.8	70.1
Food & Farm Prod	270.3	268.3	231.0	215.2	254.1	273.4	276.0	267.5	263.9	280.4
All Manuf Equip	23.9	25.1	29.8	31.4	33.6	33.8	38.4	42.2	43.6	49.0
Other	22.1	25.8	29.1	25.5	28.2	30.5	39.7	16.5	16.0	8.0

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>Total</b>	<b>2,128.2</b>	<b>2,214.8</b>	<b>2,240.4</b>	<b>2,284.1</b>	<b>2,333.1</b>	<b>2,339.5</b>	<b>2,322.6</b>	<b>2,424.6</b>	<b>2,393.3</b>	<b>2,340.3</b>
Coal	300.4	314.1	324.5	328.7	326.0	316.1	289.2	297.0	303.3	286.9
Petro & Petro Prod	930.6	961.3	907.1	954.4	988.2	987.4	979.1	1,043.9	1,055.3	1,017.9
Chem & Rel Prod	131.6	146.9	152.9	152.3	156.6	156.5	155.7	172.4	169.7	167.6
Crude Materials	360.6	369.3	381.7	388.7	400.9	394.3	386.6	380.3	354.0	352.0
Primary Manuf Goods	76.8	105.0	106.3	108.9	117.0	141.0	147.4	153.0	137.1	140.8
Food & Farm Prod	269.3	225.8	303.2	*284.9	271.7	265.7	287.9	283.3	281.9	280.0
All Manuf Equip	51.1	54.9	57.8	59.0	66.1	71.8	71.5	83.6	80.3	81.9
Other	7.9	7.3	6.9	7.2	6.6	6.6	5.2	11.1	11.7	13.2

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

Figure 1-4  
 FOREIGN WATERBORNE COMMERCE, 1983-2002  
 INBOUND AND OUTBOUND TRAFFIC  
 (million short tons)

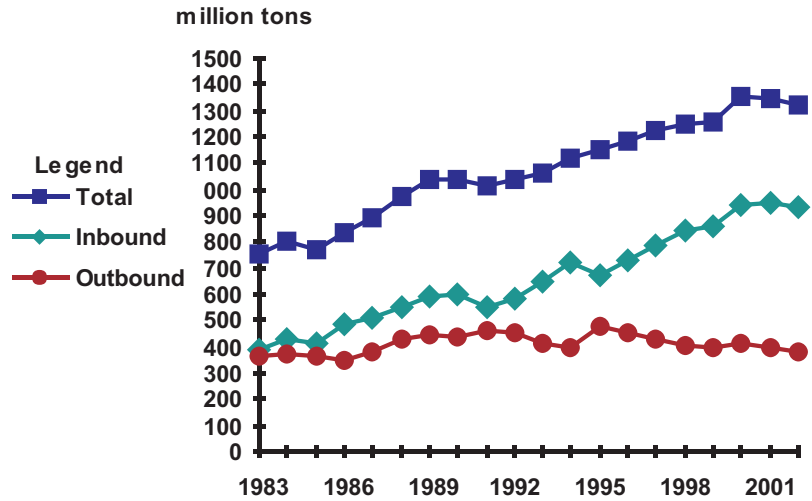


Table 1-6: FOREIGN WATERBORNE COMMERCE, 1983-2002  
 INBOUND AND OUTBOUND TRAFFIC  
 (million short tons)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
<b>Total</b>	<b>751.1</b>	<b>803.3</b>	<b>774.3</b>	<b>837.2</b>	<b>891.0</b>	<b>976.2</b>	<b>1,037.9</b>	<b>1,041.6</b>	<b>1,013.6</b>	<b>1,037.5</b>
Inbound	387.8	427.1	412.7	486.1	507.7	549.9	589.5	600.0	555.4	586.7
Outbound	363.3	376.2	361.6	351.2	383.3	426.3	448.4	441.6	458.2	450.8

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>Total</b>	<b>1,060.0</b>	<b>1,115.7</b>	<b>1,147.4</b>	<b>1,183.4</b>	<b>1,220.6</b>	<b>1,245.4</b>	<b>1,260.8</b>	<b>1,354.8</b>	<b>1,350.8</b>	<b>1,319.3</b>
Inbound	648.8	719.5	672.7	732.6	788.3	840.7	860.8	939.7	951.8	934.9
Outbound	411.3	396.2	474.7	450.8	432.3	404.7	400.0	415.0	399.0	384.3

Figure 1-5  
 FOREIGN WATERBORNE COMMERCE, 1983-2002  
 TOTAL, COASTAL AND GREAT LAKES TRAFFIC  
 (million short tons)

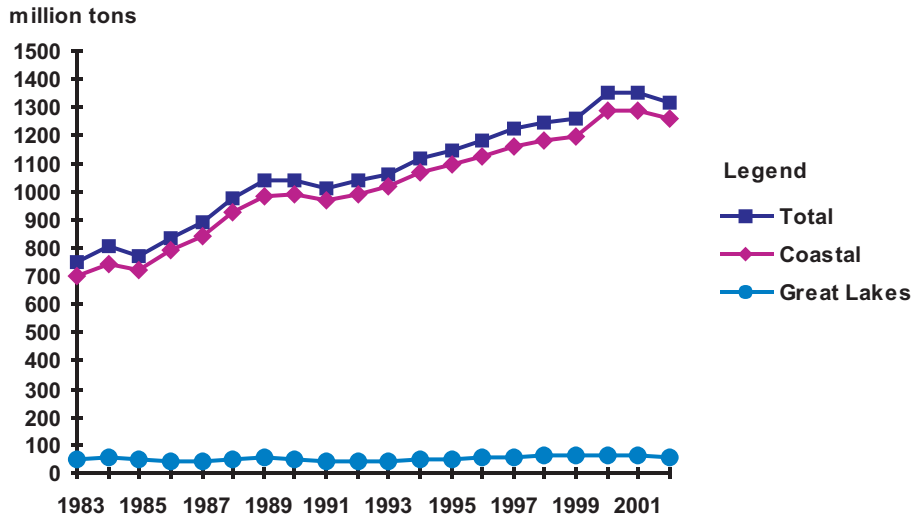


Table 1-7: FOREIGN WATERBORNE COMMERCE, 1983-2002  
 TOTAL, COASTAL AND GREAT LAKES TRAFFIC  
 (million short tons)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
<b>Total</b>	<b>751.1</b>	<b>803.3</b>	<b>774.3</b>	<b>837.2</b>	<b>891.0</b>	<b>976.2</b>	<b>1,037.9</b>	<b>1,041.6</b>	<b>1,013.6</b>	<b>1,037.5</b>
Coastal	702.7	744.6	723.0	791.4	845.1	923.7	983.1	991.1	971.8	992.0
Great Lakes	48.4	58.8	51.3	45.8	45.9	52.5	54.8	50.5	41.8	45.5

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>Total</b>	<b>1,060.0</b>	<b>1,115.7</b>	<b>1,147.4</b>	<b>1,183.4</b>	<b>1,220.6</b>	<b>1,245.4</b>	<b>1,260.8</b>	<b>1,354.8</b>	<b>1,350.8</b>	<b>1,319.3</b>
Coastal	1,016.4	1,065.6	1,095.5	1,127.0	1,162.9	1,183.0	1,198.3	1,290.7	1,288.3	1,259.7
Great Lakes	43.6	50.1	51.9	56.4	57.7	62.4	62.4	64.0	62.5	59.6



Figure 1-6  
 DOMESTIC WATERBORNE COMMERCE, 1983-2002  
 BY TYPE OF TRAFFIC  
 (million short tons)

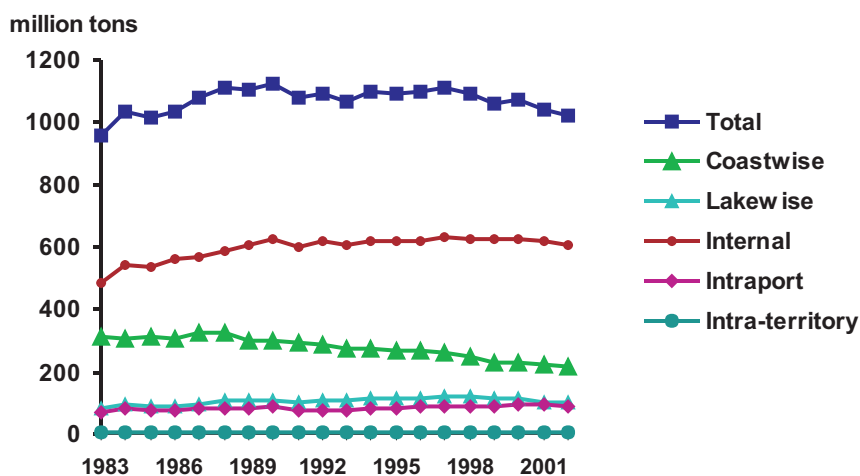


Table 1-8: DOMESTIC WATERBORNE COMMERCE, 1983-2002  
 BY TYPE OF TRAFFIC  
 (million short tons)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
<b>Total</b>	<b>956.5</b>	<b>1,032.7</b>	<b>1,014.1</b>	<b>1,037.2</b>	<b>1,076.5</b>	<b>1,111.8</b>	<b>1,102.5</b>	<b>1,122.3</b>	<b>1,078.6</b>	1,094.6
Coastwise	309.6	307.7	309.8	308.0	323.5	325.2	302.0	298.6	294.5	285.1
Lakewise	83.4	98.0	92.0	87.4	96.5	109.7	109.1	110.2	103.4	107.4
Internal	487.1	542.5	534.7	560.5	569.8	588.1	606.0	622.6	600.4	621.0
Inraport	73.1	81.1	74.3	77.4	82.0	83.7	80.2	86.4	75.6	76.8
Intra-territory	3.2	3.4	3.4	4.0	4.7	5.1	5.2	4.5	4.6	4.2

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>Total</b>	<b>1,068.2</b>	<b>1,099.0</b>	<b>1,093.0</b>	<b>1,100.7</b>	<b>1,112.5</b>	<b>1,094.1</b>	<b>1,061.8</b>	<b>1,069.8</b>	<b>1,042.5</b>	<b>1,021.0</b>
Coastwise	271.7	277.0	266.6	267.4	263.1	249.6	228.8	226.9	223.6	216.4
Lakewise	109.9	114.8	116.1	114.9	122.7	122.2	113.9	114.4	100.0	101.5
Internal	607.3	618.4	620.3	*622.1	630.6	625.0	624.6	628.4	619.8	608.0
Inraport	74.4	82.9	83.1	*89.0	89.8	90.1	88.7	94.6	93.2	90.0
Intra-territory	5.0	5.9	6.9	7.3	6.3	7.2	5.9	5.5	5.9	5.1

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

Figure 1-7  
DOMESTIC WATERBORNE COMMERCE, 1983-2002  
TON-MILES BY TYPE OF TRAFFIC  
(billion short ton-miles)

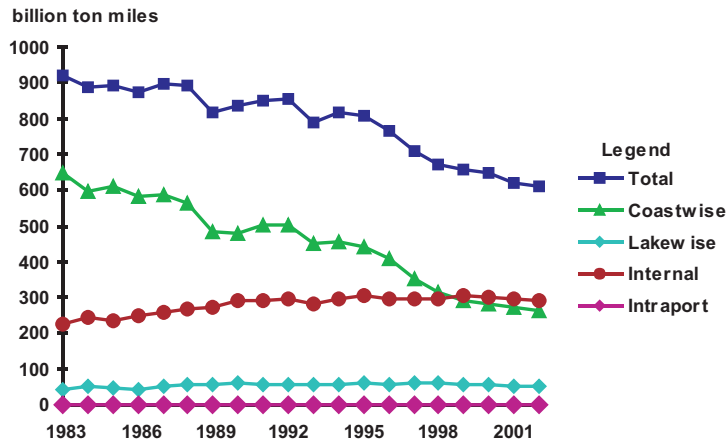


Table 1-9: DOMESTIC WATERBORNE COMMERCE, 1983-2002  
TON-MILES BY TYPE OF TRAFFIC  
(billion short ton-miles)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
<b>Total</b>	<b>919.6</b>	<b>887.7</b>	<b>893.0</b>	<b>873.4</b>	<b>895.4</b>	<b>890.0</b>	<b>815.5</b>	<b>833.5</b>	<b>848.4</b>	<b>856.7</b>
Coastwise	649.7	593.9	611.0	580.9	586.8	561.6	483.9	479.1	502.1	502.3
Lakewise	43.1	49.8	48.2	43.2	50.1	58.2	58.3	60.9	55.3	55.8
Internal	225.6	242.9	232.7	248.1	257.3	269.0	272.2	292.4	290.0	297.6
Intraport	1.1	1.2	1.1	1.2	1.2	1.2	1.2	1.1	1.0	1.0

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>Total</b>	<b>789.7</b>	<b>814.9</b>	<b>807.7</b>	<b>764.7</b>	<b>707.4</b>	<b>672.8</b>	<b>655.9</b>	<b>645.8</b>	<b>621.7</b>	<b>612.1</b>
Coastwise	448.4	457.6	440.3	408.1	349.8	314.9	292.7	283.9	274.6	263.7
Lakewise	56.4	58.3	59.7	58.3	62.2	61.7	57.0	57.9	50.9	53.7
Internal	283.9	297.8	306.3	296.8	294.0	294.9	304.7	302.6	294.9	293.4
Intraport	0.9	1.3	1.3	1.5	1.4	1.4	1.4	1.5	1.4	1.3

Figure 1-8  
 DOMESTIC WATERBORNE COMMERCE, 1983-2002  
 AVERAGE HAUL BY TYPE OF TRAFFIC  
 (miles per short ton)

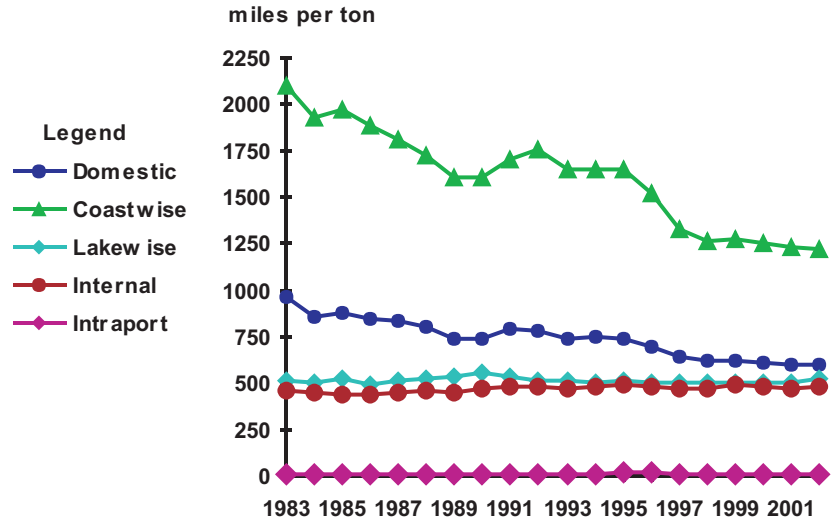


Table 1-10: DOMESTIC WATERBORNE COMMERCE, 1983-2002  
 AVERAGE HAUL BY TYPE OF TRAFFIC  
 (miles per short ton)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Domestic	964.6	862.5	883.5	845.3	835.4	804.3	743.2	745.7	789.9	785.7
Coastwise	2,098.4	1,930.5	1,972.2	1,885.9	1,813.9	1,727.0	1,602.1	1,604.4	1,704.8	1,761.7
Lakewise	516.4	508.0	523.8	494.5	519.0	530.3	534.5	553.1	535.0	519.4
Internal	463.2	448.0	435.2	442.7	451.6	457.5	449.1	469.6	483.0	479.3
Intraport	15.0	14.3	14.8	15.5	14.4	14.8	14.9	12.6	12.8	12.4

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Domestic	742.7	745.5	743.6	699.4	639.5	619.0	621.1	606.8	599.7	602.5
Coastwise	1,650.4	1,651.8	1,651.6	1,526.2	1,329.5	1,261.3	1,279.4	1,250.9	1,227.9	1,218.5
Lakewise	514.0	507.6	514.1	507.8	506.5	504.7	500.9	506.1	508.5	528.8
Internal	467.5	481.5	493.8	477.1	466.3	471.8	487.9	481.4	475.7	482.6
Intraport	12.4	15.6	16.2	16.6	15.3	15.3	15.4	15.8	15.2	14.8

Figure 1-9  
DOMESTIC WATERBORNE COMMERCE, 1983-2002  
BY COMMODITY GROUP  
(million short tons)

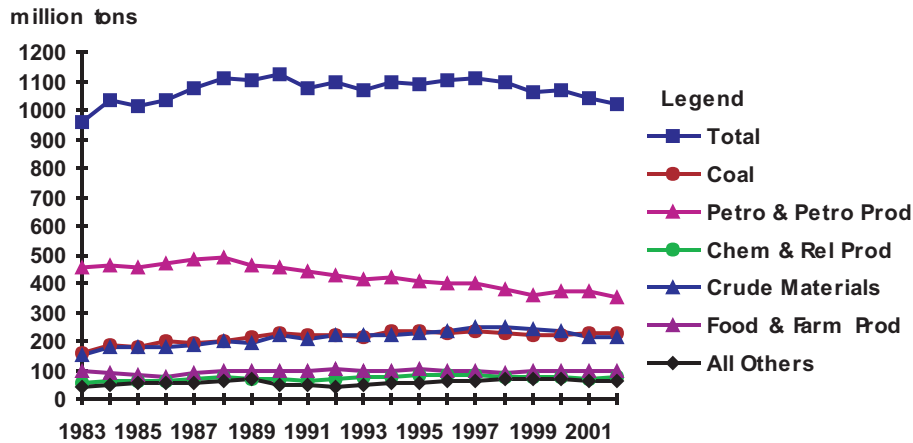


Table 1-11: DOMESTIC WATERBORNE COMMERCE, 1983-2002  
BY COMMODITY GROUP  
(million short tons)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
<b>Total</b>	<b>956.5</b>	<b>1,032.7</b>	<b>1,014.1</b>	<b>1,037.2</b>	<b>1,076.5</b>	<b>1,111.8</b>	<b>1,102.5</b>	<b>1,122.3</b>	<b>1,078.6</b>	<b>1,094.6</b>
Coal	155.5	189.5	179.8	196.7	190.6	196.8	210.9	227.1	219.8	223.5
Petro & Petro Prod	458.0	460.6	453.5	466.8	480.3	487.2	463.5	457.7	440.7	429.4
Chem & Rel Prod	52.8	60.1	59.7	63.7	70.3	73.3	68.6	67.4	65.4	70.1
Crude Materials	149.9	180.5	181.4	179.5	189.2	200.5	196.2	222.4	206.7	223.0
Primary Manuf Goods	20.1	22.9	25.2	24.8	24.3	24.6	24.9	25.5	25.4	25.8
Food & Farm Prod	95.9	91.2	82.1	77.8	90.2	95.3	94.7	98.6	98.2	105.3
All Manuf Equip	3.0	3.1	4.3	3.4	4.4	5.3	5.3	8.1	8.1	10.6
Other	21.3	24.9	28.1	24.5	27.1	28.9	38.4	15.5	14.4	6.9

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>Total</b>	<b>1,068.2</b>	<b>1,099.0</b>	<b>1,093.0</b>	<b>1,100.7</b>	<b>1,112.5</b>	<b>1,094.1</b>	<b>1,061.8</b>	<b>1,069.8</b>	<b>1,042.5</b>	<b>1,021.0</b>
Coal	214.7	231.3	223.5	229.9	232.3	229.4	218.9	220.7	227.7	227.0
Petro & Petro Prod	416.9	420.8	403.6	398.5	396.7	382.5	361.5	370.6	369.7	348.7
Chem & Rel Prod	72.8	78.5	79.4	80.2	81.0	77.7	75.3	76.0	71.1	73.1
Crude Materials	218.6	220.9	226.4	233.2	246.5	245.7	239.3	234.2	213.7	214.7
Primary Manuf Goods	28.5	35.7	36.8	37.7	37.2	41.2	45.0	45.8	40.3	42.4
Food & Farm Prod	98.3	93.3	103.4	*98.0	93.7	91.5	100.0	96.9	96.5	97.6
All Manuf Equip	11.6	12.5	14.6	17.2	19.5	20.8	17.8	21.2	19.9	14.6
Other	6.8	5.8	5.5	6.0	5.6	5.3	3.9	4.3	3.5	3.0

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

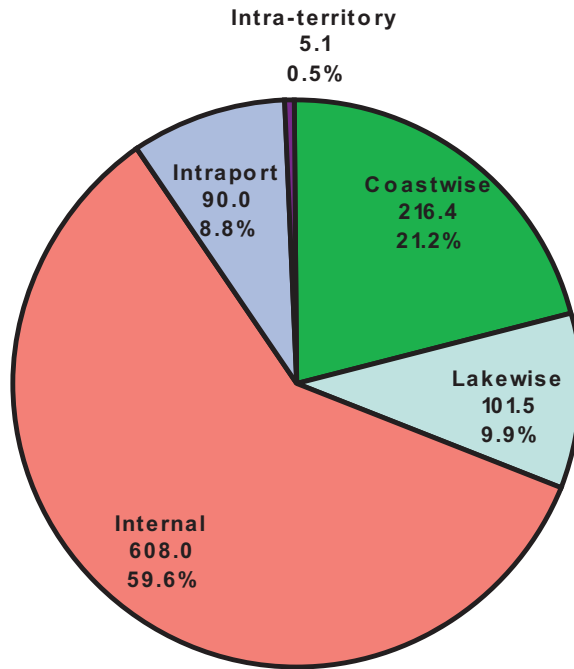


Table 1-12: DOMESTIC COMMERCE, 2001-2002  
 COMPARED BY TYPE OF TRAFFIC  
 BARGE AND SELF-PROPELLED VESSELS  
 (million short tons)

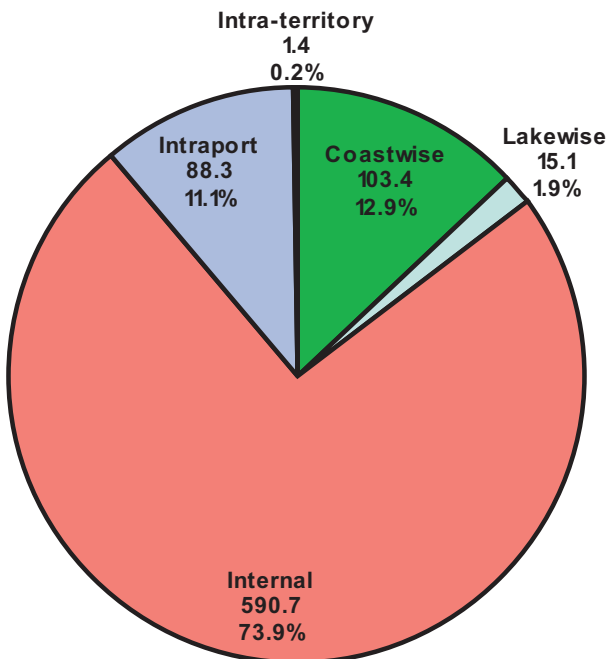
	2001	2002	% Change
<b>Domestic Traffic</b>	<b>1,042.5</b>	<b>1,021.0</b>	<b>-2.1</b>
Coastwise	223.6	216.4	-3.2
Lakewise	100.0	101.5	1.5
Internal	619.8	608.0	-1.9
Inraport	93.2	90.0	-3.5
Intra-territory	5.9	5.1	-13.0
<b>Barge Traffic</b>	<b>806.3</b>	<b>798.9</b>	<b>-0.9</b>
Coastwise	102.0	103.4	1.4
Lakewise	13.4	15.1	12.6
Internal	596.9	590.7	-1.0
Inraport	91.2	88.3	-3.2
Intra-territory	2.8	1.4	-50.2
<b>Self-Propelled Traffic</b>	<b>236.1</b>	<b>222.1</b>	<b>-6.0</b>
Coastwise	121.6	113.0	-7.1
Lakewise	86.6	86.4	-0.3
Internal	22.9	17.3	-24.2
Inraport	2.1	1.7	-16.6
Intra-territory	3.0	3.7	21.6

Figure 1-10  
 DOMESTIC COMMERCE, 2002  
 COMPARED BY TYPE OF TRAFFIC, BARGE AND SELF-PROPELLED VESSELS  
 (million short tons and percentage of short tons)

**Domestic Traffic**



**Barge Traffic**



**Self-Propelled Traffic**

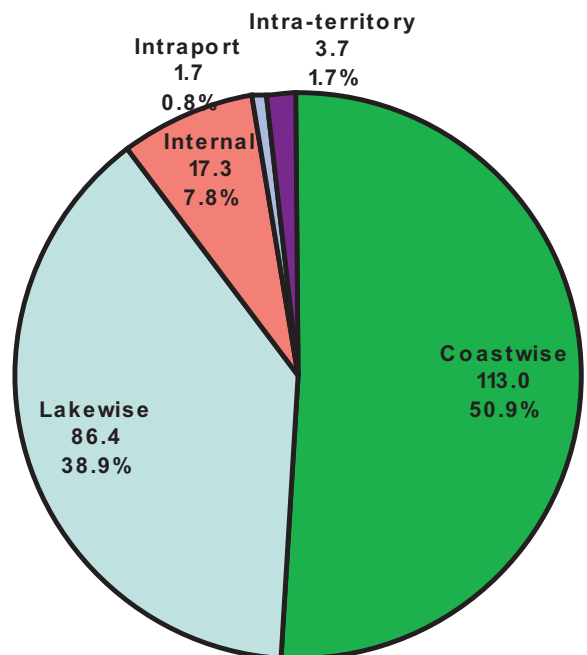


Table 1-13: WATERBORNE TRADE WITH NAFTA PARTNERS, 2002  
 TONNAGE AND PERCENT OF TOTAL U.S. WATERBORNE FOREIGN INBOUND AND OUTBOUND TRAFFIC  
 (short tons)

Commodity	Canada				Mexico			
	Inbound from	%	Outbound to	%	Inbound from	%	Outbound to	%
<b>Total, all commodities</b>	<b>76,221,863</b>	<b>8.2</b>	<b>43,936,273</b>	<b>11.4</b>	<b>107,481,929</b>	<b>11.5</b>	<b>27,690,285</b>	<b>7.2</b>
<b>Total coal</b>	<b>803,289</b>	<b>4.8</b>	<b>20,894,431</b>	<b>48.3</b>	<b>34,914</b>	<b>0.2</b>	<b>2,467</b>	<b>0.0</b>
1100 coal lignite	736,381	4.8	20,797,444	48.5	34,914	0.2	944	0.0
1200 coal coke	66,908	5.5	96,987	28.9	—	—	1,523	0.5
<b>Total petroleum and petroleum products</b>	<b>30,427,656</b>	<b>5.0</b>	<b>4,606,613</b>	<b>7.7</b>	<b>92,244,811</b>	<b>15.1</b>	<b>9,496,309</b>	<b>15.8</b>
<b>Subtotal crude petroleum</b>	<b>14,019,301</b>	<b>2.9</b>	<b>20,307</b>	<b>1.7</b>	<b>87,519,463</b>	<b>18.3</b>	<b>509</b>	<b>0.0</b>
2100 crude petroleum	14,019,301	2.9	20,307	1.7	87,519,463	18.3	509	0.0
<b>Subtotal petroleum products</b>	<b>16,408,355</b>	<b>12.6</b>	<b>4,586,306</b>	<b>7.8</b>	<b>4,725,348</b>	<b>3.6</b>	<b>9,495,800</b>	<b>16.2</b>
2211 gasoline	8,068,471	27.6	213,918	3.2	266,535	0.9	5,253,284	78.1
2221 kerosene	264,734	5.3	386,139	35.9	229,296	4.6	76,248	7.1
2330 distillate fuel oil	3,574,942	17.9	207,597	3.5	86,547	0.4	1,470,204	25.1
2340 residual fuel oil	2,589,324	7.3	1,749,725	14.4	1,172,685	3.3	993,673	8.2
2350 lube oil & greases	446,116	5.2	18,752	1.4	103,970	1.2	8,325	0.6
2410 petro. jelly & waxes	—	—	24,879	27.4	1,326	0.4	8	0.0
2429 naphtha & solvents	968,371	6.0	97,560	4.5	2,837,049	17.5	139,159	6.4
2430 asphalt, tar & pitch	28,871	17.8	—	—	—	—	12	0.0
2540 petroleum coke	450,583	6.1	1,887,736	7.1	27,940	0.4	1,014,633	3.8
2640 liquid natural gas	16,943	0.2	—	—	—	—	540,254	19.6
2990 petro. products nec	—	—	—	—	—	—	—	—
<b>Total chemicals and related products</b>	<b>3,667,885</b>	<b>9.3</b>	<b>2,328,990</b>	<b>4.2</b>	<b>502,602</b>	<b>1.3</b>	<b>5,183,695</b>	<b>9.4</b>
<b>Subtotal fertilizers</b>	<b>542,712</b>	<b>8.8</b>	<b>122,140</b>	<b>0.9</b>	<b>17,400</b>	<b>0.3</b>	<b>964,772</b>	<b>7.3</b>
3110 nitrogenous fert.	114,362	2.9	15,763	0.8	—	—	312,599	16.4
3120 phosphatic fert.	802	0.3	—	—	7,271	2.8	4,830	0.8
3130 potassic fert.	414,887	33.4	—	—	—	—	137,845	6.5
3190 fert. & mixes nec	12,661	1.8	106,377	1.2	10,129	1.4	509,498	5.9
<b>Subtotal other chemicals and related products</b>	<b>3,125,173</b>	<b>9.3</b>	<b>2,206,850</b>	<b>5.3</b>	<b>485,202</b>	<b>1.5</b>	<b>4,218,923</b>	<b>10.1</b>
3211 acyclic hydrocarbons	120,455	25.9	—	—	3,819	0.8	59,388	7.2
3212 benzene & toluene	211,519	17.3	5,061	3.3	6,942	0.6	41,657	27.5
3219 other hydrocarbons	230,257	30.8	16,650	0.3	6,448	0.9	1,409,069	27.5
3220 alcohols	485,229	7.0	24,235	0.9	25,027	0.4	226,118	8.7
3230 carboxylic acids	5,101	0.6	21	0.0	80,743	9.6	318,250	10.5
3240 nitrogen func. comp.	101	0.0	11,963	0.6	5,357	1.8	142,100	6.7
3250 organo - inorg. comp.	112	0.1	53	0.0	186	0.1	1,204	0.3
3260 organic comp. nec	591,702	13.8	283,025	11.5	42,358	1.0	579,998	23.6
3271 sulphur (liquid)	—	—	—	—	—	—	—	—
3272 sulphuric acid	275,703	27.4	—	—	84,127	8.3	2	0.0
3273 ammonia	230,117	4.3	—	—	115,395	2.1	—	—
3274 sodium hydroxide	144,097	16.4	421,461	11.6	6,941	0.8	337,754	9.3
3275 inorg. elem., oxides, & halogen salts	96,583	3.2	326,560	9.9	12,794	0.4	48,226	1.5
3276 metallic salts	62,142	5.5	689,711	13.3	28,933	2.6	24,988	0.5
3279 inorganic chem. nec	3,973	1.2	108	0.1	941	0.3	8,967	7.4
3281 radioactive material	—	—	—	—	—	—	18	0.1
3282 pigments & paints	44,257	12.9	13,082	2.5	777	0.2	36,192	7.0
3283 coloring mat. nec	22	0.0	362	0.4	57	0.1	14,382	17.4
3284 medicines	347	0.2	101	0.0	879	0.5	596	0.2
3285 perfumes & cleansers	2,451	0.5	600	0.1	14,402	3.1	4,783	0.7
3286 plastics	9,322	0.4	1,357	0.0	43,280	1.9	410,384	6.5
3291 pesticides	126	0.1	21,204	9.8	622	0.4	2,738	1.3
3292 starches, gluten, glue	162,246	28.6	10,200	1.7	429	0.1	232	0.0
3293 explosives	236	0.2	—	—	27	0.0	55	0.6
3297 chemical additives	7,080	2.2	24,008	2.4	1,109	0.4	524,106	51.5
3298 wood & resin chem.	29,410	23.2	—	—	238	0.2	13	0.0
3299 chem. products nec	412,585	20.5	357,088	15.8	3,371	0.2	27,703	1.2
<b>Total crude materials, inedible except fuels</b>	<b>33,384,018</b>	<b>36.2</b>	<b>12,351,184</b>	<b>27.5</b>	<b>11,345,841</b>	<b>12.3</b>	<b>645,836</b>	<b>1.4</b>
<b>Subtotal forest products, wood and chips</b>	<b>2,037,137</b>	<b>29.0</b>	<b>454,675</b>	<b>5.1</b>	<b>32,050</b>	<b>0.5</b>	<b>13,036</b>	<b>0.1</b>
4110 rubber & gums	619	0.1	—	—	—	—	305	1.8
4150 fuel wood	14,804	39.9	108,527	90.9	26	0.1	1,255	1.1
4161 wood chips	434,785	99.9	205,345	7.5	10	0.0	—	—
4170 wood in the rough	1,198,578	77.4	111,652	2.9	238	0.0	283	0.0
4189 lumber	379,034	10.5	28,243	1.3	7,121	0.2	10,851	0.5
4190 forest products nec	9,317	3.8	908	1.1	24,655	10.2	342	0.4
<b>Subtotal pulp and waste paper</b>	<b>7,348</b>	<b>0.6</b>	<b>179,808</b>	<b>1.4</b>	<b>5</b>	<b>0.0</b>	<b>144,120</b>	<b>1.1</b>
4225 pulp & waste paper	7,348	0.6	179,808	1.4	5	0.0	144,120	1.1
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>16,156,858</b>	<b>48.0</b>	<b>3,342,534</b>	<b>91.4</b>	<b>9,423,916</b>	<b>28.0</b>	<b>13,931</b>	<b>0.4</b>
4310 building stone	771,847	40.6	176	0.2	753	0.0	707	0.8
4322 limestone	2,592,098	22.1	2,695,568	99.5	6,534,189	55.8	—	—
4323 gypsum	6,666,495	70.3	184,634	82.5	1,899,328	20.0	13,158	5.9
4327 phosphate rock	—	—	—	—	—	—	—	—
4331 sand & gravel	6,126,418	77.3	462,156	72.4	989,646	12.5	66	0.0
<b>Subtotal iron ore and scrap</b>	<b>7,320,205</b>	<b>47.2</b>	<b>6,001,180</b>	<b>50.8</b>	<b>112,502</b>	<b>0.7</b>	<b>429,407</b>	<b>3.6</b>
4410 iron ore	7,227,434	49.0	5,928,650	99.9	109,872	0.7	38	0.0
4420 iron & steel scrap	92,771	12.0	72,530	1.2	2,630	0.3	429,369	7.3
<b>Subtotal marine shells</b>	<b>16</b>	<b>0.3</b>	<b>—</b>	<b>—</b>	<b>106</b>	<b>2.2</b>	<b>—</b>	<b>—</b>
4515 marine shells	16	0.3	—	—	106	2.2	—	—
<b>Subtotal non-ferrous ores and scrap</b>	<b>90,806</b>	<b>0.6</b>	<b>1,340,779</b>	<b>59.8</b>	<b>62,051</b>	<b>0.4</b>	<b>40,479</b>	<b>1.8</b>
4630 copper ore	—	—	—	—	12,048	5.8	98	0.6
4650 aluminum ore	556	0.0	1,216,951	91.3	21	0.0	25,957	1.9
4670 manganese ore	—	—	—	—	6,693	1.4	—	—
4680 non-ferrous scrap	6,287	3.8	81	0.0	1,128	0.7	2,090	0.5
4690 non-ferrous ores nec	83,963	6.0	123,747	28.5	42,161	3.0	12,334	2.8
<b>Subtotal sulphur, clay and salt</b>	<b>2,335,807</b>	<b>60.8</b>	<b>353,400</b>	<b>7.6</b>	<b>475,824</b>	<b>12.4</b>	<b>344</b>	<b>0.0</b>
4741 sulphur, (dry)	62,845	6.7	—	—	474,251	50.8	19	0.0



Table 1-13: WATERBORNE TRADE WITH NAFTA PARTNERS, 2002 (continued)  
 TONNAGE AND PERCENT OF TOTAL U.S. WATERBORNE FOREIGN INBOUND AND OUTBOUND TRAFFIC  
 (short tons)

Commodity	Canada				Mexico			
	Inbound from	%	Outbound to	%	Inbound from	%	Outbound to	%
4782 clay & refrac. mat.	2,272,962	78.1	353,400	9.4	1,573	0.1	325	0.0
<b>Subtotal slag</b>	<b>826,572</b>	<b>44.1</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>60</b>	<b>3.0</b>
4860 slag	826,572	44.1	—	—	—	—	60	3.0
<b>Subtotal other non-metal. min.</b>	<b>4,609,269</b>	<b>34.1</b>	<b>678,808</b>	<b>63.9</b>	<b>1,239,387</b>	<b>9.2</b>	<b>4,459</b>	<b>0.4</b>
4900 non-metal. min. nec	4,609,269	34.1	678,808	63.9	1,239,387	9.2	4,459	0.4
<b>Total primary manufactured goods</b>	<b>6,798,425</b>	<b>8.1</b>	<b>570,286</b>	<b>3.9</b>	<b>2,150,403</b>	<b>2.6</b>	<b>730,168</b>	<b>5.0</b>
<b>Subtotal paper products</b>	<b>723,731</b>	<b>15.2</b>	<b>14,153</b>	<b>0.2</b>	<b>10,599</b>	<b>0.2</b>	<b>104,973</b>	<b>1.7</b>
5110 newsprint	647,069	77.8	3,916	0.7	220	0.0	20,747	3.8
5120 paper & paperboard	75,149	2.4	9,453	0.2	4,043	0.1	80,729	1.6
5190 paper products nec	1,513	0.2	784	0.2	6,336	0.7	3,497	0.8
<b>Subtotal lime, cement and glass</b>	<b>4,801,571</b>	<b>15.5</b>	<b>243,107</b>	<b>20.3</b>	<b>37,980</b>	<b>0.1</b>	<b>12,207</b>	<b>1.0</b>
5210 lime	9,222	94.2	—	—	20	0.2	—	—
5220 cement & concrete	3,747,608	16.3	241,731	78.0	4,530	0.0	9	0.0
5240 glass & glass prod.	4,770	0.4	441	0.1	11,879	1.0	8,499	2.3
5290 misc. mineral prod.	1,039,971	15.4	935	0.2	21,551	0.3	3,699	0.7
<b>Subtotal primary iron and steel products</b>	<b>384,315</b>	<b>1.2</b>	<b>17,071</b>	<b>1.7</b>	<b>1,988,719</b>	<b>6.5</b>	<b>31,625</b>	<b>3.1</b>
5312 pig iron	141,840	2.8	—	—	427	0.0	3,471	10.3
5315 ferro alloys	—	—	—	—	10,004	1.0	31	0.2
5320 i&s primary forms	9,760	0.1	13,228	4.5	1,787,738	18.9	4,077	1.4
5330 i&s plates & sheets	107,848	1.7	653	0.3	5,279	0.1	3,945	1.6
5360 i&s bars & shapes	40,394	0.8	3,052	4.4	96,018	1.9	155	0.2
5370 i&s pipe & tube	3,823	0.1	2	0.0	79,802	2.8	19,532	5.9
5390 primary i&s nec	80,650	9.2	136	0.4	9,451	1.1	414	1.1
<b>Subtotal primary non-ferrous metal products</b>	<b>795,007</b>	<b>5.4</b>	<b>282,770</b>	<b>4.7</b>	<b>112,185</b>	<b>0.8</b>	<b>559,432</b>	<b>9.4</b>
5421 copper	14,453	1.3	21	0.0	873	0.1	241	0.2
5422 aluminum	21,617	1.4	40,361	21.0	2,954	0.2	1,472	0.8
5429 smelted prod. nec	383,807	20.3	241,595	5.5	926	0.0	530,365	12.0
5480 fab. metal products	375,130	3.7	793	0.1	107,432	1.1	27,354	2.2
<b>Subtotal primary wood products</b>	<b>93,801</b>	<b>3.5</b>	<b>13,185</b>	<b>4.1</b>	<b>920</b>	<b>0.0</b>	<b>21,931</b>	<b>6.8</b>
5540 primary wood prod.	93,801	3.5	13,185	4.1	920	0.0	21,931	6.8
<b>Total food and farm products</b>	<b>632,117</b>	<b>2.0</b>	<b>2,973,533</b>	<b>2.0</b>	<b>685,017</b>	<b>2.1</b>	<b>11,355,367</b>	<b>7.6</b>
<b>Subtotal fish</b>	<b>31,064</b>	<b>2.2</b>	<b>286,371</b>	<b>24.7</b>	<b>38,946</b>	<b>2.7</b>	<b>1,683</b>	<b>0.1</b>
6134 fish (not shellfish)	22,400	3.6	282,180	27.8	26,495	4.2	1,058	0.1
6136 shellfish	8,664	1.1	4,191	2.9	12,451	1.5	625	0.4
<b>Subtotal grain</b>	<b>179,370</b>	<b>11.1</b>	<b>1,544,512</b>	<b>1.9</b>	<b>67</b>	<b>0.0</b>	<b>8,635,853</b>	<b>10.5</b>
6241 wheat	103,532	41.7	446,289	1.7	—	—	1,777,195	6.8
6344 corn	34,140	35.9	1,098,223	2.3	42	0.0	3,587,877	7.5
6442 rice	331	0.1	—	—	25	0.0	442,798	12.8
6443 barley & rye	20,887	19.1	—	—	—	—	—	—
6445 oats	20,480	2.9	—	—	—	—	—	—
6447 sorghum grains	—	—	—	—	—	—	2,827,962	63.9
<b>Subtotal oilseeds</b>	<b>19,887</b>	<b>3.1</b>	<b>1,098,793</b>	<b>3.2</b>	<b>871</b>	<b>0.1</b>	<b>2,142,281</b>	<b>6.3</b>
6521 peanuts	23	0.0	20	0.0	32	0.1	431	0.3
6522 soybeans	11,162	28.7	1,098,773	3.9	23	0.1	2,066,990	7.3
6534 flaxseed	24	6.2	—	—	—	—	—	—
6590 oilseeds nec	8,678	1.6	—	—	816	0.2	74,860	1.4
<b>Subtotal vegetable products</b>	<b>128,009</b>	<b>3.8</b>	<b>1,946</b>	<b>0.0</b>	<b>15,131</b>	<b>0.4</b>	<b>262,942</b>	<b>6.7</b>
6653 vegetable oils	6,683	0.5	297	0.0	425	0.0	230,596	11.7
6654 vegetables & prod.	121,326	6.1	1,649	0.1	14,706	0.7	32,346	1.6
<b>Subtotal processed grain and animal feed</b>	<b>100,393</b>	<b>11.7</b>	<b>284</b>	<b>0.0</b>	<b>8,913</b>	<b>1.0</b>	<b>115,891</b>	<b>0.9</b>
6746 wheat flour	10,296	39.8	27	0.0	3,101	12.0	215	0.1
6747 grain mill products	56,164	16.4	120	0.0	4,873	1.4	77,291	5.1
6781 hay & fodder	985	1.8	28	0.0	243	0.4	135	0.0
6782 animal feed, prep.	32,948	7.5	109	0.0	696	0.2	38,250	0.5
<b>Subtotal other agricultural products</b>	<b>173,394</b>	<b>0.7</b>	<b>41,627</b>	<b>0.3</b>	<b>621,089</b>	<b>2.6</b>	<b>196,717</b>	<b>1.3</b>
6811 meat, fresh, frozen	11,120	1.1	351	0.0	1,849	0.2	849	0.0
6817 meat, prepared	3,418	2.6	26	0.0	530	0.4	543	0.4
6822 dairy products	9,901	2.2	96	0.0	742	0.2	3,038	1.1
6835 fish, prepared	4,634	1.5	1,012	0.5	590	0.2	52	0.0
6838 tallow, animal oils	626	4.2	2,355	0.2	19	0.1	164,594	12.8
6839 animals & prod. nec	37,993	11.0	316	0.0	162	0.0	839	0.1
6856 bananas & plantains	3,120	0.1	4	0.0	367	0.0	—	—
6857 fruit & nuts nec	2,010	0.1	1,125	0.1	3,652	0.1	1,944	0.1
6858 fruit juices	4,664	0.2	2,141	0.5	10,555	0.5	1,777	0.4
6861 sugar	168	0.0	—	—	185,759	12.5	22	0.0
6865 molasses	—	—	21,541	5.6	127,027	7.4	—	—
6871 coffee	18,476	1.2	110	0.2	90,743	6.1	15	0.0
6872 cocoa beans	195	0.0	20	0.1	1,159	0.2	3,030	18.1
6885 alcoholic beverages	46,419	1.2	11,272	1.7	165,036	4.2	4,800	0.7
6888 water & ice	6,613	1.3	170	0.2	320	0.1	498	0.6
6889 food products nec	21,323	1.0	975	0.0	25,274	1.2	12,773	0.5
6891 tobacco & products	305	0.1	—	—	4,867	1.4	163	0.0
6893 cotton	—	—	—	—	243	0.5	1,679	0.1
6894 natural fibers nec	148	0.4	—	—	1,857	4.4	10	0.0
6899 farm products nec	2,261	1.3	113	0.1	338	0.2	91	0.0
<b>Total all manufactured equipment, machinery and products</b>	<b>311,841</b>	<b>0.6</b>	<b>207,422</b>	<b>1.7</b>	<b>468,094</b>	<b>0.9</b>	<b>236,764</b>	<b>1.9</b>
7110 machinery (not elec)	160,675	2.7	23,951	0.9	10,051	0.2	24,190	0.9
7120 electrical machinery	40,668	0.5	128,578	7.5	17,393	0.2	14,107	0.8
7210 vehicles & parts	6,989	0.1	8,426	0.4	260,476	2.6	12,234	0.6
7220 aircraft & parts	111	0.4	11	0.0	87	0.3	26	0.1
7230 ships & boats	2,378	2.1	1,354	2.0	1,292	1.2	4,229	6.1
7300 ordnance & access.	201	0.6	8	0.1	82	0.2	71	0.5
7400 manufac. wood prod.	14,044	1.5	2,656	1.3	12,944	1.4	1,592	0.8
7500 textile products	11,767	0.2	1,558	0.1	106,885	1.4	119,885	5.3

Table 1-13: WATERBORNE TRADE WITH NAFTA PARTNERS, 2002 (continued)  
 TONNAGE AND PERCENT OF TOTAL U.S. WATERBORNE FOREIGN INBOUND AND OUTBOUND TRAFFIC  
 (short tons)

Commodity	Canada				Mexico			
	Inbound from	%	Outbound to	%	Inbound from	%	Outbound to	%
7600 rubber & plastic pr.	5,310	0.1	291	0.0	13,045	0.3	35,217	2.6
7900 manufac. prod. nec	69,698	0.4	40,589	2.1	45,839	0.3	25,213	1.3
<b>Total unknown or not elsewhere classified</b>	<b>196,632</b>	<b>3.1</b>	<b>3,814</b>	<b>0.1</b>	<b>50,247</b>	<b>0.8</b>	<b>39,679</b>	<b>1.0</b>
9900 unknown or nec	196,632	3.1	3,814	0.1	50,247	0.8	39,679	1.0

## 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
1993	2,128,221	1996	2,284,065	1999	2,322,557	<b>2002</b>	<b>2,340,292</b>
1994	2,214,754	1997	2,333,142	2000	2,424,589		
1995	2,240,393	1998	2,339,500	2001	2,393,298		

Freight Traffic, 2002 (thousand short tons)

Commodity	Grand Total	Foreign		Domestic					
		Inbound	Outbound	Total	Coastwise	Lakewise	Internal	Inraport	Intra-Territory
<b>Total, all commodities</b>	<b>2,340,292</b>	<b>934,941</b>	<b>384,350</b>	<b>1,021,001</b>	<b>216,396</b>	<b>101,466</b>	<b>608,038</b>	<b>90,004</b>	<b>5,097</b>
<b>Total coal</b>	<b>286,934</b>	<b>16,671</b>	<b>43,252</b>	<b>227,011</b>	<b>13,135</b>	<b>19,408</b>	<b>174,644</b>	<b>19,824</b>	<b>---</b>
1100 coal lignite	280,659	15,451	42,917	222,291	13,092	19,176	170,599	19,423	---
1200 coal coke	6,275	1,221	335	4,719	42	231	4,045	401	---
<b>Total petroleum and petroleum products</b>	<b>1,017,890</b>	<b>609,289</b>	<b>59,929</b>	<b>348,671</b>	<b>154,303</b>	<b>1,944</b>	<b>145,649</b>	<b>41,804</b>	<b>4,971</b>
<b>Subtotal crude petroleum</b>	<b>566,032</b>	<b>479,318</b>	<b>1,208</b>	<b>85,506</b>	<b>51,227</b>	<b>---</b>	<b>32,711</b>	<b>1,568</b>	<b>---</b>
2100 crude petroleum	566,032	479,318	1,208	85,506	51,227	---	32,711	1,568	---
<b>Subtotal petroleum products</b>	<b>451,857</b>	<b>129,970</b>	<b>58,721</b>	<b>263,166</b>	<b>103,077</b>	<b>1,944</b>	<b>112,937</b>	<b>40,236</b>	<b>4,971</b>
2211 gasoline	122,610	29,282	6,726	86,602	48,045	402	29,592	6,085	2,479
2221 kerosene	9,878	5,002	1,075	3,802	1,697	---	1,219	268	619
2330 distillate fuel oil	88,447	19,936	5,861	62,651	23,766	197	27,996	9,847	844
2340 residual fuel oil	116,960	35,411	12,129	69,420	22,074	127	26,552	19,637	1,029
2350 lube oil & greases	16,282	8,606	1,302	6,373	1,472	3	4,275	623	---
2410 petro. jelly & waxes	554	318	91	145	56	---	87	2	---
2429 naphtha & solvents	25,487	16,227	2,180	7,079	1,097	---	4,707	1,275	---
2430 asphalt, tar & pitch	13,183	162	81	12,940	3,104	1,068	7,914	854	---
2540 petroleum coke	42,594	7,354	26,520	8,720	627	119	6,846	1,128	---
2640 liquid natural gas	11,803	7,671	2,757	1,375	330	1	1,021	23	---
2990 petro. products nec	4,060	0	0	4,059	808	28	2,729	493	---
<b>Total chemicals and related products</b>	<b>167,597</b>	<b>39,572</b>	<b>54,962</b>	<b>73,063</b>	<b>13,241</b>	<b>154</b>	<b>47,615</b>	<b>12,054</b>	<b>---</b>
<b>Subtotal fertilizers</b>	<b>32,398</b>	<b>6,135</b>	<b>13,245</b>	<b>13,019</b>	<b>1,547</b>	<b>---</b>	<b>11,393</b>	<b>79</b>	<b>---</b>
3110 nitrogenous fert.	12,745	3,917	1,907	6,922	217	---	6,675	30	---
3120 phosphatic fert.	1,697	258	627	812	169	---	640	3	---
3130 potassic fert.	4,956	1,242	2,119	1,595	9	---	1,550	36	---
3190 fert. & mixes nec	13,000	717	8,593	3,690	1,151	---	2,529	10	---
<b>Subtotal other chemicals and related products</b>	<b>135,199</b>	<b>33,438</b>	<b>41,717</b>	<b>60,044</b>	<b>11,694</b>	<b>154</b>	<b>36,221</b>	<b>11,975</b>	<b>---</b>
3211 acyclic hydrocarbons	4,243	465	823	2,955	427	---	2,145	383	---
3212 benzene & toluene	8,123	1,224	151	6,748	171	---	4,490	2,086	---
3219 other hydrocarbons	18,895	748	5,116	13,031	2,350	---	8,776	1,905	---
3220 alcohols	17,698	6,950	2,604	8,144	401	---	6,030	1,712	---
3230 carboxylic acids	5,457	839	3,030	1,588	18	---	821	749	---
3240 nitrogen func. comp.	3,907	296	2,132	1,479	6	---	1,455	17	---
3250 organo - inorg. comp.	604	161	394	48	0	---	39	9	---
3260 organic comp. nec	7,896	4,300	2,454	1,141	77	---	882	182	---
3271 sulphur (liquid)	4,447	---	48	4,399	3,110	---	871	417	---
3272 sulphuric acid	2,900	1,008	23	1,869	14	---	1,610	246	---
3273 ammonia	7,343	5,396	577	1,370	---	---	1,333	37	---
3274 sodium hydroxide	10,830	877	3,631	6,322	1,446	---	4,144	732	---
3275 inorg. elem., oxides, & halogen salts	8,204	3,046	3,301	1,858	68	---	667	1,123	---
3276 metallic salts	7,397	1,127	5,204	1,067	44	154	732	138	---
3279 inorganic chem. nec	595	319	121	155	0	---	155	---	---

Table 2-1: SUMMARY OF FOREIGN AND DOMESTIC WATERBORNE COMMERCE  
 BY TYPE OF TRAFFIC AND COMMODITY  
 Freight Traffic, 2002 - continued

Commodity	Grand Total	Foreign		Domestic					
		Inbound	Outbound	Total	Coastwise	Lakewise	Internal	Intraport	Intra-Territory
3281 radioactive material	55	23	25	7	2	—	5	—	—
3282 pigments & paints	884	342	520	22	19	—	1	1	—
3283 coloring mat. nec	192	109	83	0	0	—	—	—	—
3284 medicines	478	190	258	29	29	—	0	—	—
3285 perfumes & cleansers	1,198	468	693	36	32	—	4	—	—
3286 plastics	8,580	2,282	6,268	30	18	—	12	—	—
3291 pesticides	369	146	217	6	5	—	—	1	—
3292 starches, gluten, glue	1,189	567	617	4	1	—	3	—	—
3293 explosives	115	100	9	6	3	—	2	—	—
3297 chemical additives	8,580	316	1,018	7,247	3,256	—	1,797	2,193	—
3298 wood & resin chem.	276	127	134	15	0	—	15	—	—
3299 chem. products nec	4,744	2,012	2,264	468	195	—	229	44	—
<b>Total crude materials, inedible except fuels*</b>	<b>351,952</b>	<b>92,225</b>	<b>44,983</b>	<b>214,745</b>	<b>13,072</b>	<b>76,039</b>	<b>115,078</b>	<b>10,557</b>	<b>—</b>
<b>Subtotal forest products, wood and chips</b>	<b>25,121</b>	<b>7,024</b>	<b>8,853</b>	<b>9,243</b>	<b>1,943</b>	<b>1</b>	<b>6,681</b>	<b>619</b>	<b>—</b>
4110 rubber & gums	1,170	1,151	17	2	2	—	0	—	—
4150 fuel wood	160	37	119	3	—	—	3	0	—
4161 wood chips	6,569	435	2,720	3,413	572	—	2,838	3	—
4170 wood in the rough	10,058	1,549	3,798	4,711	376	1	3,719	615	—
4189 lumber	6,771	3,609	2,119	1,042	991	—	51	1	—
4190 forest products nec	393	243	79	72	2	—	70	—	—
<b>Subtotal pulp and waste paper</b>	<b>14,049</b>	<b>1,242</b>	<b>12,674</b>	<b>133</b>	<b>40</b>	<b>—</b>	<b>91</b>	<b>2</b>	<b>—</b>
4225 pulp & waste paper	14,049	1,242	12,674	133	40	—	91	2	—
<b>Subtotal soil, sand, gravel, rock and stone*</b>	<b>166,125</b>	<b>33,691</b>	<b>3,657</b>	<b>128,777</b>	<b>10,189</b>	<b>28,433</b>	<b>81,483</b>	<b>8,673</b>	<b>—</b>
4310 building stone	1,999	1,900	85	14	—	—	14	—	—
4322 limestone	68,833	11,706	2,709	54,418	1,703	27,530	25,124	60	—
4323 gypsum	13,070	9,486	224	3,360	0	439	2,918	3	—
4327 phosphate rock	6,168	2,670	1	3,497	3,495	—	1	—	—
4331 sand & gravel	76,042	7,929	639	67,474	4,980	463	53,421	8,610	—
4338 soil & fill dirt	14	—	—	14	10	0	3	0	—
<b>Subtotal iron ore and scrap</b>	<b>85,803</b>	<b>15,513</b>	<b>11,818</b>	<b>58,471</b>	<b>327</b>	<b>46,815</b>	<b>10,587</b>	<b>743</b>	<b>—</b>
4410 iron ore	73,091	14,739	5,935	52,416	—	46,811	5,605	—	—
4420 iron & steel scrap	12,713	774	5,883	6,055	327	4	4,981	743	—
<b>Subtotal marine shells</b>	<b>297</b>	<b>5</b>	<b>1</b>	<b>291</b>	<b>—</b>	<b>—</b>	<b>291</b>	<b>—</b>	<b>—</b>
4515 marine shells	297	5	1	291	—	—	291	—	—
<b>Subtotal non-ferrous ores and scrap</b>	<b>24,342</b>	<b>15,505</b>	<b>2,243</b>	<b>6,594</b>	<b>461</b>	<b>51</b>	<b>6,074</b>	<b>8</b>	<b>—</b>
4630 copper ore	233	208	18	8	7	—	1	—	—
4650 aluminum ore	18,486	13,263	1,333	3,890	436	51	3,401	2	—
4670 manganese ore	1,048	479	32	538	—	—	538	—	—
4680 non-ferrous scrap	595	165	428	3	0	—	1	1	—
4690 non-ferrous ores nec	3,980	1,391	434	2,156	18	—	2,133	4	—
<b>Subtotal sulphur, clay and salt</b>	<b>9,837</b>	<b>3,842</b>	<b>4,671</b>	<b>1,324</b>	<b>42</b>	<b>45</b>	<b>1,185</b>	<b>52</b>	<b>—</b>
4741 sulphur, (dry)	1,852	933	919	—	—	—	—	—	—
4782 clay & refrac. mat.	7,984	2,909	3,752	1,324	42	45	1,185	52	—
<b>Subtotal slag</b>	<b>3,090</b>	<b>1,875</b>	<b>2</b>	<b>1,213</b>	<b>49</b>	<b>275</b>	<b>662</b>	<b>226</b>	<b>—</b>
4860 slag	3,090	1,875	2	1,213	49	275	662	226	—

\* Does not include 6.4 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, 2002 - continued

Commodity	Grand Total	Foreign		Domestic					
		Inbound	Outbound	Total	Coastwise	Lakewise	Internal	Intraport	Intra-Territory
<b>Subtotal other non-metal. min.</b>	<b>23,288</b>	<b>13,527</b>	<b>1,063</b>	<b>8,698</b>	<b>22</b>	<b>419</b>	<b>8,024</b>	<b>233</b>	<b>---</b>
4900 non-metal. min. nec	23,288	13,527	1,063	8,698	22	419	8,024	233	---
<b>Total primary manufactured goods</b>	<b>140,849</b>	<b>83,922</b>	<b>14,502</b>	<b>42,426</b>	<b>8,423</b>	<b>3,536</b>	<b>27,089</b>	<b>3,378</b>	<b>---</b>
<b>Subtotal paper products</b>	<b>11,045</b>	<b>4,772</b>	<b>6,002</b>	<b>271</b>	<b>195</b>	<b>---</b>	<b>75</b>	<b>1</b>	<b>---</b>
5110 newsprint	1,409	832	548	29	8	---	21	---	---
5120 paper & paperboard	8,116	3,070	5,010	35	19	---	15	1	---
5190 paper products nec	1,520	870	444	206	168	---	38	---	---
<b>Subtotal lime, cement and glass</b>	<b>51,157</b>	<b>31,028</b>	<b>1,197</b>	<b>18,932</b>	<b>2,821</b>	<b>3,529</b>	<b>11,768</b>	<b>814</b>	<b>---</b>
5210 lime	3,084	10	14	3,059	10	---	3,049	---	---
5220 cement & concrete	38,796	23,051	310	15,435	2,576	3,529	8,519	811	---
5240 glass & glass prod.	1,581	1,198	367	16	7	---	9	---	---
5290 misc. mineral prod.	7,696	6,769	506	421	228	---	191	3	---
<b>Subtotal primary iron and steel products</b>	<b>46,254</b>	<b>30,806</b>	<b>1,026</b>	<b>14,422</b>	<b>151</b>	<b>8</b>	<b>13,051</b>	<b>1,212</b>	<b>---</b>
5312 pig iron	10,793	5,114	34	5,645	---	5	4,479	1,161	---
5315 ferro alloys	1,948	993	17	938	---	---	929	10	---
5320 i&s primary forms	10,658	9,462	292	904	---	---	901	4	---
5330 i&s plates & sheets	9,849	6,430	241	3,178	0	2	3,152	24	---
5360 i&s bars & shapes	7,250	5,038	70	2,142	38	---	2,095	10	---
5370 i&s pipe & tube	3,800	2,891	333	576	14	---	562	---	---
5390 primary i&s nec	1,955	879	38	1,038	99	---	934	5	---
<b>Subtotal primary non-ferrous metal products</b>	<b>29,304</b>	<b>14,629</b>	<b>5,956</b>	<b>8,719</b>	<b>5,198</b>	<b>---</b>	<b>2,171</b>	<b>1,350</b>	<b>---</b>
5421 copper	1,257	1,088	119	50	0	---	50	---	---
5422 aluminum	2,264	1,583	192	488	1	---	485	3	---
5429 smelted prod. nec	6,630	1,895	4,425	310	---	---	307	2	---
5480 fab. metal products	19,153	10,063	1,220	7,871	5,197	---	1,328	1,346	---
<b>Subtotal primary wood products</b>	<b>3,090</b>	<b>2,686</b>	<b>322</b>	<b>82</b>	<b>59</b>	<b>---</b>	<b>24</b>	<b>---</b>	<b>---</b>
5540 primary wood prod.	3,090	2,686	322	82	59	---	24	---	---
<b>Total food and farm products**</b>	<b>280,029</b>	<b>32,150</b>	<b>150,323</b>	<b>97,556</b>	<b>5,918</b>	<b>343</b>	<b>91,028</b>	<b>267</b>	<b>---</b>
<b>Subtotal fish**</b>	<b>2,675</b>	<b>1,442</b>	<b>1,160</b>	<b>74</b>	<b>74</b>	<b>0</b>	<b>---</b>	<b>---</b>	<b>---</b>
6134 fish (not shellfish)	1,717	628	1,015	73	73	0	---	---	---
6136 shellfish	958	813	144	0	0	---	---	---	---
<b>Subtotal grain</b>	<b>139,259</b>	<b>1,622</b>	<b>82,309</b>	<b>55,328</b>	<b>151</b>	<b>343</b>	<b>54,776</b>	<b>58</b>	<b>---</b>
6241 wheat	35,992	248	26,068	9,677	74	343	9,243	17	---
6344 corn	89,751	95	47,936	41,720	24	---	41,663	32	---
6442 rice	6,094	463	3,454	2,176	49	---	2,127	0	---
6443 barley & rye	780	109	422	248	---	---	248	---	---
6445 oats	958	705	3	250	4	---	242	3	---
6447 sorghum grains	5,685	1	4,426	1,258	---	---	1,252	6	---
<b>Subtotal oilseeds</b>	<b>60,520</b>	<b>641</b>	<b>33,913</b>	<b>25,966</b>	<b>0</b>	<b>---</b>	<b>25,952</b>	<b>14</b>	<b>---</b>
6521 peanuts	214	62	153	---	---	---	---	---	---
6522 soybeans	49,752	39	28,175	21,538	---	---	21,523	14	---
6534 flaxseed	77	0	77	---	---	---	---	---	---
6590 oilseeds nec	10,477	540	5,508	4,429	0	---	4,428	---	---
<b>Subtotal vegetable products</b>	<b>8,475</b>	<b>3,371</b>	<b>3,928</b>	<b>1,177</b>	<b>159</b>	<b>---</b>	<b>995</b>	<b>22</b>	<b>---</b>
6653 vegetable oils	4,375	1,374	1,965	1,036	40	---	974	22	---
6654 vegetables & prod.	4,100	1,997	1,963	140	119	---	21	---	---

\*\* Does not include fish landings.

Table 2-1: SUMMARY OF FOREIGN AND DOMESTIC WATERBORNE COMMERCE  
 BY TYPE OF TRAFFIC AND COMMODITY  
 Freight Traffic, 2002 - continued

Commodity	Grand Total	Foreign		Domestic					
		Inbound	Outbound	Total	Coastwise	Lakewise	Internal	Intraport	Intra-Territory
<b>Subtotal processed grain and animal feed</b>	<b>21,867</b>	<b>862</b>	<b>13,316</b>	<b>7,689</b>	<b>791</b>	<b>0</b>	<b>6,771</b>	<b>127</b>	<b>—</b>
6746 wheat flour	394	26	330	37	16	—	22	—	—
6747 grain mill products	2,922	342	1,509	1,071	669	0	391	11	—
6781 hay & fodder	3,268	56	3,175	37	2	—	35	—	—
6782 animal feed, prep.	15,284	438	8,302	6,544	104	—	6,324	116	—
<b>Subtotal other agricultural products</b>	<b>47,233</b>	<b>24,213</b>	<b>15,697</b>	<b>7,322</b>	<b>4,743</b>	<b>—</b>	<b>2,533</b>	<b>45</b>	<b>—</b>
6811 meat, fresh, frozen	5,027	1,036	3,892	99	99	—	0	—	—
6817 meat, prepared	272	130	138	4	4	—	—	—	—
6822 dairy products	777	447	288	41	35	—	6	—	—
6835 fish, prepared	810	315	214	281	266	—	15	—	—
6838 tallow, animal oils	1,310	15	1,283	12	5	—	4	3	—
6839 animals & prod. nec	1,373	346	993	34	34	—	—	—	—
6856 bananas & plantains	4,876	4,859	14	3	3	—	—	—	—
6857 fruit & nuts nec	4,856	2,657	2,166	33	33	—	—	—	—
6858 fruit juices	2,645	1,972	467	206	206	—	0	—	—
6861 sugar	3,702	1,482	63	2,157	1,243	—	914	—	—
6865 molasses	2,650	1,716	382	552	149	—	374	30	—
6871 coffee	1,567	1,491	71	6	6	—	—	—	—
6872 cocoa beans	578	560	17	1	1	—	—	—	—
6885 alcoholic beverages	4,862	3,974	652	236	195	—	41	—	—
6887 groceries	1,023	—	—	1,023	870	—	153	1	—
6888 water & ice	1,552	515	82	954	17	—	926	12	—
6889 food products nec	6,071	2,093	2,350	1,628	1,533	—	95	—	—
6891 tobacco & products	824	338	484	2	2	—	—	—	—
6893 cotton	1,958	49	1,906	3	3	—	—	—	—
6894 natural fibers nec	69	42	27	—	—	—	—	—	—
6899 farm products nec	431	176	208	46	40	—	6	—	—
<b>Total all manufactured equipment, machinery and products</b>	<b>81,860</b>	<b>54,865</b>	<b>12,419</b>	<b>14,576</b>	<b>8,039</b>	<b>22</b>	<b>5,937</b>	<b>454</b>	<b>125</b>
7110 machinery (not elec)	13,525	5,994	2,674	4,857	279	0	4,551	5	22
7120 electrical machinery	9,594	7,822	1,725	48	29	—	16	2	—
7210 vehicles & parts	13,388	10,083	2,195	1,110	1,079	—	30	1	—
7220 aircraft & parts	70	31	35	4	0	—	4	0	—
7230 ships & boats	193	112	69	12	5	—	7	0	—
7300 ordnance & access.	53	35	14	3	1	—	2	—	—
7400 manufac. wood prod.	1,545	923	203	419	374	—	45	1	—
7500 textile products	9,996	7,685	2,249	62	45	—	17	—	—
7600 rubber & plastic pr.	6,294	4,882	1,364	48	14	—	33	0	—
7800 empty containers	0	—	—	0	0	—	—	—	—
7900 manufac. prod. nec	27,201	17,298	1,889	8,014	6,212	22	1,231	444	104
<b>Total waste and scrap nec</b>	<b>2,745</b>	<b>—</b>	<b>—</b>	<b>2,745</b>	<b>82</b>	<b>—</b>	<b>996</b>	<b>1,667</b>	<b>—</b>
8900 waste and scrap nec	2,745	—	—	2,745	82	—	996	1,667	—
<b>Total unknown or not elsewhere classified</b>	<b>10,436</b>	<b>6,247</b>	<b>3,981</b>	<b>208</b>	<b>183</b>	<b>21</b>	<b>4</b>	<b>—</b>	<b>—</b>
9900 unknown or nec	10,436	6,247	3,981	208	183	21	4	—	—



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
1993	789,658	1996	764,686	1999	655,862	<b>2002</b>	<b>612,081</b>
1994	814,919	1997	707,410	2000	645,799		
1995	807,728	1998	672,795	2001	621,686		

Freight Traffic, 2002 (million short ton-miles)

Commodity	Grand Total	Coastwise	Lakewise	Internal	Intraport
<b>Total, all commodities</b>	<b>612,081</b>	<b>263,688</b>	<b>53,653</b>	<b>293,410</b>	<b>1,329</b>
<b>Total coal</b>	<b>80,337</b>	<b>8,498</b>	<b>10,530</b>	<b>60,767</b>	<b>541</b>
1100 coal lignite	76,531	8,466	10,412	57,133	520
1200 coal coke	3,806	32	118	3,635	21
<b>Total petroleum and petroleum products</b>	<b>233,127</b>	<b>193,634</b>	<b>596</b>	<b>38,444</b>	<b>453</b>
<b>Subtotal crude petroleum</b>	<b>95,677</b>	<b>91,671</b>	<b>—</b>	<b>3,988</b>	<b>17</b>
2100 crude petroleum	95,677	91,671	—	3,988	17
<b>Subtotal petroleum products</b>	<b>137,450</b>	<b>101,962</b>	<b>596</b>	<b>34,456</b>	<b>436</b>
2211 gasoline	56,655	49,019	133	7,423	80
2221 kerosene	2,547	2,245	—	297	4
2330 distillate fuel oil	29,704	21,752	37	7,782	133
2340 residual fuel oil	23,460	18,413	21	4,859	167
2350 lube oil & greases	5,457	2,573	0	2,881	3
2410 petro. jelly & waxes	201	142	—	60	0
2429 naphtha & solvents	4,268	2,464	—	1,791	13
2430 asphalt, tar & pitch	6,567	2,517	317	3,719	15
2540 petroleum coke	5,543	1,085	76	4,364	17
2640 liquid natural gas	573	273	0	300	0
2990 petro. products nec	2,474	1,479	12	981	3
<b>Total chemicals and related products</b>	<b>55,420</b>	<b>25,948</b>	<b>53</b>	<b>29,285</b>	<b>134</b>
<b>Subtotal fertilizers</b>	<b>11,422</b>	<b>1,537</b>	<b>—</b>	<b>9,884</b>	<b>1</b>
3110 nitrogenous fert.	6,016	402	—	5,614	1
3120 phosphatic fert.	500	131	—	369	0
3130 potassic fert.	989	10	—	979	1
3190 fert. & mixes nec	3,917	995	—	2,922	0
<b>Subtotal other chemicals and related products</b>	<b>43,998</b>	<b>24,411</b>	<b>53</b>	<b>19,402</b>	<b>133</b>
3211 acyclic hydrocarbons	1,703	1,078	—	623	2
3212 benzene & toluene	1,867	786	—	1,046	34
3219 other hydrocarbons	11,735	5,165	—	6,544	26
3220 alcohols	4,216	623	—	3,574	19
3230 carboxylic acids	607	43	—	559	5
3240 nitrogen func. comp.	930	15	—	915	0
3250 organo - inorg. comp.	8	0	—	8	0
3260 organic comp. nec	850	197	—	652	1
3271 sulphur (liquid)	3,305	3,144	—	158	3
3272 sulphuric acid	259	7	—	246	6
3273 ammonia	739	—	—	739	0
3274 sodium hydroxide	5,946	3,005	—	2,933	8
3275 inorg. elem., oxides, & halogen salts	518	84	—	427	8
3276 metallic salts	463	80	53	330	1
3279 inorganic chem. nec	200	0	—	199	—
3281 radioactive material	10	6	—	5	—
3282 pigments & paints	55	54	—	1	0
3283 coloring mat. nec	0	0	—	—	—
3284 medicines	47	47	—	0	—
3285 perfumes & cleansers	87	87	—	0	—
3286 plastics	45	42	—	3	—
3291 pesticides	7	7	—	—	0
3292 starches, gluten, glue	2	1	—	1	—
3293 explosives	11	11	—	0	—
3297 chemical additives	9,955	9,632	—	305	19
3298 wood & resin chem.	4	0	—	3	—
3299 chem. products nec	430	297	—	133	1
<b>Total crude materials, inedible except fuels*</b>	<b>94,607</b>	<b>7,121</b>	<b>40,958</b>	<b>46,391</b>	<b>137</b>
<b>Subtotal forest products, wood and chips</b>	<b>3,258</b>	<b>1,870</b>	<b>0</b>	<b>1,377</b>	<b>11</b>
4110 rubber & gums	3	3	—	0	—
4150 fuel wood	0	—	—	0	0
4161 wood chips	1,224	172	—	1,053	0
4170 wood in the rough	473	202	0	260	11
4189 lumber	1,513	1,488	—	25	0
4190 forest products nec	44	5	—	39	—
<b>Subtotal pulp and waste paper</b>	<b>74</b>	<b>58</b>	<b>—</b>	<b>16</b>	<b>0</b>
4225 pulp & waste paper	74	58	—	16	0
<b>Subtotal soil, sand, gravel, rock and stone*</b>	<b>31,962</b>	<b>4,491</b>	<b>8,452</b>	<b>18,916</b>	<b>103</b>
4310 building stone	12	—	—	12	—

\* Ton-miles not computed for 6. million short tons of waterway improvement material.

Table 2-2: SUMMARY OF WATERBORNE COMMERCE TON-MILES  
 BY TYPE OF TRAFFIC AND COMMODITY  
 Freight Traffic, 2002 - continued

Commodity	Grand Total	Coastwise	Lakewise	Internal	Intraport
4322 limestone	18,562	740	8,177	9,643	1
4323 gypsum	1,784	0	162	1,621	0
4327 phosphate rock	3,062	3,059	—	2	—
4331 sand & gravel	8,522	671	113	7,637	102
4338 soil & fill dirt	21	20	0	1	0
<b>Subtotal iron ore and scrap</b>	<b>43,555</b>	<b>265</b>	<b>32,252</b>	<b>11,027</b>	<b>12</b>
4410 iron ore	39,999	—	32,251	7,748	—
4420 iron & steel scrap	3,556	265	1	3,279	12
<b>Subtotal marine shells</b>	<b>46</b>	<b>—</b>	<b>—</b>	<b>46</b>	<b>—</b>
4515 marine shells	46	—	—	46	—
<b>Subtotal non-ferrous ores and scrap</b>	<b>6,204</b>	<b>335</b>	<b>15</b>	<b>5,854</b>	<b>0</b>
4630 copper ore	24	24	—	1	—
4650 aluminum ore	4,549	294	15	4,241	0
4670 manganese ore	770	—	—	770	—
4680 non-ferrous scrap	2	1	—	1	0
4690 non-ferrous ores nec	858	17	—	841	0
<b>Subtotal sulphur, clay and salt</b>	<b>524</b>	<b>13</b>	<b>1</b>	<b>509</b>	<b>1</b>
4782 clay & refrac. mat.	524	13	1	509	1
<b>Subtotal slag</b>	<b>646</b>	<b>35</b>	<b>124</b>	<b>480</b>	<b>8</b>
4860 slag	646	35	124	480	8
<b>Subtotal other non-metal. min.</b>	<b>8,339</b>	<b>54</b>	<b>116</b>	<b>8,167</b>	<b>3</b>
4900 non-metal. min. nec	8,339	54	116	8,167	3
<b>Total primary manufactured goods</b>	<b>28,475</b>	<b>4,190</b>	<b>1,177</b>	<b>23,072</b>	<b>37</b>
<b>Subtotal paper products</b>	<b>503</b>	<b>452</b>	<b>—</b>	<b>51</b>	<b>0</b>
5110 newsprint	52	20	—	32	—
5120 paper & paperboard	61	55	—	6	0
5190 paper products nec	390	377	—	13	—
<b>Subtotal lime, cement and glass</b>	<b>9,311</b>	<b>1,841</b>	<b>1,176</b>	<b>6,273</b>	<b>21</b>
5210 lime	1,261	37	—	1,224	—
5220 cement & concrete	7,441	1,233	1,176	5,012	21
5240 glass & glass prod.	22	10	—	12	—
5290 misc. mineral prod.	587	561	—	26	0
<b>Subtotal primary iron and steel products</b>	<b>14,646</b>	<b>177</b>	<b>1</b>	<b>14,460</b>	<b>8</b>
5312 pig iron	5,208	—	1	5,200	7
5315 ferro alloys	1,303	—	—	1,303	1
5320 i&s primary forms	1,000	—	—	1,000	0
5330 i&s plates & sheets	3,277	0	0	3,277	0
5360 i&s bars & shapes	2,322	78	—	2,244	0
5370 i&s pipe & tube	446	13	—	433	—
5390 primary i&s nec	1,090	85	—	1,005	0
<b>Subtotal primary non-ferrous metal products</b>	<b>3,861</b>	<b>1,570</b>	<b>—</b>	<b>2,282</b>	<b>8</b>
5421 copper	49	0	—	49	—
5422 aluminum	530	1	—	529	0
5429 smelted prod. nec	336	—	—	336	0
5480 fab. metal products	2,945	1,569	—	1,368	8
<b>Subtotal primary wood products</b>	<b>155</b>	<b>150</b>	<b>—</b>	<b>5</b>	<b>—</b>
5540 primary wood prod.	155	150	—	5	—
<b>Total food and farm products**</b>	<b>105,363</b>	<b>10,395</b>	<b>338</b>	<b>94,627</b>	<b>3</b>
<b>Subtotal fish**</b>	<b>150</b>	<b>150</b>	<b>0</b>	<b>—</b>	<b>—</b>
6134 fish (not shellfish)	150	150	0	—	—
6136 shellfish	0	0	—	—	—
<b>Subtotal grain</b>	<b>59,066</b>	<b>286</b>	<b>338</b>	<b>58,441</b>	<b>2</b>
6241 wheat	6,851	89	338	6,424	0
6344 corn	49,751	43	—	49,707	1
6442 rice	1,301	151	—	1,150	0
6443 barley & rye	150	—	—	150	—
6445 oats	225	4	—	221	0
6447 sorghum grains	788	—	—	787	0
<b>Subtotal oilseeds</b>	<b>27,238</b>	<b>1</b>	<b>—</b>	<b>27,237</b>	<b>0</b>
6522 soybeans	22,831	—	—	22,831	0
6590 oilseeds nec	4,407	1	—	4,406	—
<b>Subtotal vegetable products</b>	<b>1,367</b>	<b>392</b>	<b>—</b>	<b>975</b>	<b>0</b>
6653 vegetable oils	1,035	72	—	964	0
6654 vegetables & prod.	331	320	—	11	—
<b>Subtotal processed grain and animal feed</b>	<b>8,590</b>	<b>1,608</b>	<b>0</b>	<b>6,980</b>	<b>1</b>
6746 wheat flour	62	48	—	14	—
6747 grain mill products	1,662	1,221	0	441	0
6781 hay & fodder	12	4	—	9	—
6782 animal feed, prep.	6,853	336	—	6,517	1
<b>Subtotal other agricultural products</b>	<b>8,952</b>	<b>7,958</b>	<b>—</b>	<b>994</b>	<b>0</b>
6811 meat, fresh, frozen	259	259	—	0	—
6817 meat, prepared	5	5	—	—	—
6822 dairy products	106	105	—	1	—
6835 fish, prepared	1,458	1,447	—	11	—
6838 tallow, animal oils	30	22	—	8	0

\*\* Ton-miles not computed for fish landings.

Table 2-2: SUMMARY OF WATERBORNE COMMERCE TON-MILES  
 BY TYPE OF TRAFFIC AND COMMODITY  
 Freight Traffic, 2002 - continued

Commodity		Grand Total	Coastwise	Lakewise	Internal	Intraport
6839	animals & prod. nec	64	64	—	—	—
6856	bananas & plantains	9	9	—	—	—
6857	fruit & nuts nec	101	101	—	—	—
6858	fruit juices	412	412	—	0	—
6861	sugar	1,688	1,284	—	403	—
6865	molasses	598	247	—	352	0
6871	coffee	14	14	—	—	—
6872	cocoa beans	2	2	—	—	—
6885	alcoholic beverages	595	550	—	45	—
6887	groceries	1,543	1,478	—	65	0
6888	water & ice	35	6	—	29	0
6889	food products nec	1,925	1,850	—	75	—
6891	tobacco & products	5	5	—	—	—
6893	cotton	4	4	—	—	—
6899	farm products nec	99	94	—	5	—
<b>Total all manufactured equipment, machinery and products</b>		<b>14,140</b>	<b>13,529</b>	<b>0</b>	<b>606</b>	<b>5</b>
7110	machinery (not elec)	823	643	0	180	0
7120	electrical machinery	85	72	—	13	0
7210	vehicles & parts	1,133	1,120	—	12	0
7220	aircraft & parts	0	0	—	0	0
7230	ships & boats	11	7	—	4	0
7300	ordnance & access.	2	2	—	0	—
7400	manufac. wood prod.	662	647	—	15	0
7500	textile products	266	247	—	18	—
7600	rubber & plastic pr.	60	36	—	24	0
7800	empty containers	0	0	—	—	—
7900	manufac. prod. nec	11,099	10,755	0	339	5
<b>Total waste and scrap nec</b>		<b>243</b>	<b>7</b>	<b>—</b>	<b>217</b>	<b>19</b>
8900	waste and scrap nec	243	7	—	217	19
<b>Total unknown or not elsewhere classified</b>		<b>368</b>	<b>367</b>	<b>1</b>	<b>0</b>	<b>—</b>
9900	unknown or nec	368	367	1	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
1993	753,287	1996	802,275	1999	806,837	<b>2002</b>	<b>798,935</b>
1994	782,014	1997	820,432	2000	811,047		
1995	786,560	1998	816,843	2001	806,346		

Freight Traffic, 2002 (thousand short tons)

Commodity	Barge-Traffic						Domestic	
	Total	Coastwise	Lakewise	Internal	Intraport	Intra-Territory	%-Barge	Traffic
<b>Total, all commodities</b>	<b>798,935</b>	<b>103,433</b>	<b>15,098</b>	<b>590,709</b>	<b>88,292</b>	<b>1,404</b>	<b>78.3</b>	<b>1,021,001</b>
<b>Total coal</b>	<b>205,257</b>	<b>10,381</b>	<b>410</b>	<b>174,644</b>	<b>19,823</b>	<b>---</b>	<b>90.4</b>	<b>227,011</b>
1100 coal lignite	200,713	10,339	354	170,599	19,422	---	90.3	222,291
1200 coal coke	4,544	42	56	4,045	401	---	96.3	4,719
<b>Total petroleum and petroleum products</b>	<b>240,654</b>	<b>58,444</b>	<b>1,834</b>	<b>138,141</b>	<b>40,832</b>	<b>1,404</b>	<b>69.0</b>	<b>348,671</b>
<b>Subtotal crude petroleum</b>	<b>28,769</b>	<b>802</b>	<b>---</b>	<b>26,399</b>	<b>1,568</b>	<b>---</b>	<b>33.6</b>	<b>85,506</b>
2100 crude petroleum	28,769	802	---	26,399	1,568	---	33.6	85,506
<b>Subtotal petroleum products</b>	<b>211,886</b>	<b>57,642</b>	<b>1,834</b>	<b>111,742</b>	<b>39,264</b>	<b>1,404</b>	<b>80.5</b>	<b>263,166</b>
2211 gasoline	57,416	21,788	400	29,397	5,590	241	66.3	86,602
2221 kerosene	1,892	410	---	1,219	264	---	49.8	3,802
2330 distillate fuel oil	50,032	13,048	189	27,128	9,456	211	79.9	62,651
2340 residual fuel oil	64,532	17,450	115	26,431	19,584	952	93.0	69,420
2350 lube oil & greases	5,392	511	3	4,269	609	---	84.6	6,373
2410 petro. jelly & waxes	102	15	---	87	---	---	70.4	145
2429 naphtha & solvents	6,309	344	---	4,701	1,264	---	89.1	7,079
2430 asphalt, tar & pitch	12,789	2,953	1,068	7,914	854	---	98.8	12,940
2540 petroleum coke	8,351	318	59	6,846	1,128	---	95.8	8,720
2640 liquid natural gas	1,369	325	---	1,020	23	---	99.6	1,375
2990 petro. products nec	3,701	478	---	2,729	493	---	91.2	4,059
<b>Total chemicals and related products</b>	<b>66,728</b>	<b>6,965</b>	<b>145</b>	<b>47,575</b>	<b>12,042</b>	<b>---</b>	<b>91.3</b>	<b>73,063</b>
<b>Subtotal fertilizers</b>	<b>12,740</b>	<b>1,269</b>	<b>---</b>	<b>11,392</b>	<b>79</b>	<b>---</b>	<b>97.9</b>	<b>13,019</b>
3110 nitrogenous fert.	6,847	142	---	6,675	30	---	98.9	6,922
3120 phosphatic fert.	812	169	---	640	3	---	100.0	812
3130 potassic fert.	1,594	9	---	1,549	36	---	99.9	1,595
3190 fert. & mixes nec	3,488	949	---	2,529	10	---	94.5	3,690
<b>Subtotal other chemicals and related products</b>	<b>53,988</b>	<b>5,696</b>	<b>145</b>	<b>36,183</b>	<b>11,963</b>	<b>---</b>	<b>89.9</b>	<b>60,044</b>
3211 acyclic hydrocarbons	2,528	---	---	2,145	383	---	85.5	2,955
3212 benzene & toluene	6,584	15	---	4,482	2,086	---	97.6	6,748
3219 other hydrocarbons	12,597	1,916	---	8,776	1,905	---	96.7	13,031
3220 alcohols	7,969	229	---	6,029	1,711	---	97.9	8,144
3230 carboxylic acids	1,573	3	---	821	749	---	99.1	1,588
3240 nitrogen func. comp.	1,473	---	---	1,455	17	---	99.6	1,479
3250 organo - inorg. comp.	48	---	---	39	9	---	99.9	48
3260 organic comp. nec	1,068	4	---	882	182	---	93.6	1,141
3271 sulphur (liquid)	3,018	1,730	---	871	417	---	68.6	4,399
3272 sulphuric acid	1,869	14	---	1,610	246	---	100.0	1,869
3273 ammonia	1,370	---	---	1,333	37	---	100.0	1,370
3274 sodium hydroxide	5,873	997	---	4,144	732	---	92.9	6,322
3275 inorg. elem., oxides, & halogen salts	1,786	3	---	660	1,123	---	96.2	1,858
3276 metallic salts	1,017	21	145	712	138	---	95.3	1,067
3279 inorganic chem. nec	155	---	---	155	---	---	100.0	155
3281 radioactive material	5	0	---	5	---	---	73.4	7
3282 pigments & paints	4	2	---	1	1	---	18.4	22
3284 medicines	4	4	---	0	---	---	14.8	29
3285 perfumes & cleansers	5	1	---	4	---	---	12.9	36
3286 plastics	17	6	---	12	---	---	58.6	30
3291 pesticides	1	0	---	---	1	---	18.8	6
3292 starches, gluten, glue	3	---	---	3	---	---	84.0	4
3293 explosives	4	2	---	2	---	---	67.5	6
3297 chemical additives	4,589	609	---	1,797	2,183	---	63.3	7,247
3298 wood & resin chem.	15	0	---	15	---	---	99.8	15
3299 chem. products nec	410	140	---	226	44	---	87.6	468
<b>Total crude materials, inedible except fuels</b>	<b>144,809</b>	<b>12,836</b>	<b>11,268</b>	<b>110,869</b>	<b>9,836</b>	<b>---</b>	<b>67.4</b>	<b>214,745</b>
<b>Subtotal forest products, wood and chips</b>	<b>5,150</b>	<b>1,752</b>	<b>0</b>	<b>3,389</b>	<b>9</b>	<b>---</b>	<b>55.7</b>	<b>9,243</b>
4110 rubber & gums	2	2	---	0	---	---	81.7	2
4150 fuel wood	3	---	---	3	0	---	100.0	3
4161 wood chips	3,413	572	---	2,838	3	---	100.0	3,413
4170 wood in the rough	858	376	0	476	5	---	18.2	4,711
4189 lumber	852	801	---	50	1	---	81.7	1,042

Table 2-3: DOMESTIC BARGE TRAFFIC  
BY TYPE OF TRAFFIC AND COMMODITY  
Freight Traffic, 2002 - continued

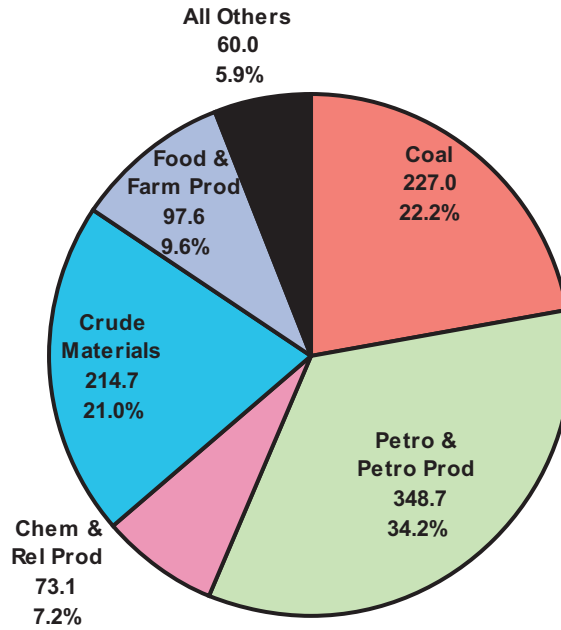
Commodity	Barge-Traffic						Domestic	
	Total	Coastwise	Lakewise	Internal	Intraport	Intra-Territory	%-Barge	Traffic
4190 forest products nec	22	1	—	21	—	—	30.3	72
<b>Subtotal pulp and waste paper</b>	<b>130</b>	<b>37</b>	<b>—</b>	<b>91</b>	<b>2</b>	<b>—</b>	<b>98.0</b>	<b>133</b>
4225 pulp & waste paper	130	37	—	91	2	—	98.0	133
<b>Subtotal soil, sand, gravel, rock and stone</b>	<b>107,038</b>	<b>10,177</b>	<b>6,799</b>	<b>81,390</b>	<b>8,672</b>	<b>—</b>	<b>83.1</b>	<b>128,777</b>
4310 building stone	14	—	—	14	—	—	100.0	14
4322 limestone	33,600	1,703	6,713	25,124	60	—	61.7	54,418
4323 gypsum	2,921	—	—	2,918	3	—	86.9	3,360
4327 phosphate rock	3,497	3,495	—	1	—	—	100.0	3,497
4331 sand & gravel	66,999	4,974	86	53,329	8,610	—	99.3	67,474
4338 soil & fill dirt	8	5	—	3	0	—	56.4	14
<b>Subtotal iron ore and scrap</b>	<b>15,940</b>	<b>316</b>	<b>4,295</b>	<b>10,586</b>	<b>743</b>	<b>—</b>	<b>27.3</b>	<b>58,471</b>
4410 iron ore	9,896	—	4,291	5,605	—	—	18.9	52,416
4420 iron & steel scrap	6,045	316	4	4,981	743	—	99.8	6,055
<b>Subtotal marine shells</b>	<b>291</b>	<b>—</b>	<b>—</b>	<b>291</b>	<b>—</b>	<b>—</b>	<b>100.0</b>	<b>291</b>
4515 marine shells	291	—	—	291	—	—	100.0	291
<b>Subtotal non-ferrous ores and scrap</b>	<b>6,543</b>	<b>461</b>	<b>—</b>	<b>6,074</b>	<b>8</b>	<b>—</b>	<b>99.2</b>	<b>6,594</b>
4630 copper ore	8	7	—	1	—	—	100.0	8
4650 aluminum ore	3,840	436	—	3,401	2	—	98.7	3,890
4670 manganese ore	538	—	—	538	—	—	100.0	538
4680 non-ferrous scrap	2	0	—	1	1	—	92.7	3
4690 non-ferrous ores nec	2,155	18	—	2,133	4	—	100.0	2,156
<b>Subtotal sulphur, clay and salt</b>	<b>678</b>	<b>38</b>	<b>—</b>	<b>587</b>	<b>52</b>	<b>—</b>	<b>51.2</b>	<b>1,324</b>
4782 clay & refrac. mat.	678	38	—	587	52	—	51.2	1,324
<b>Subtotal slag</b>	<b>1,036</b>	<b>49</b>	<b>98</b>	<b>662</b>	<b>226</b>	<b>—</b>	<b>85.4</b>	<b>1,213</b>
4860 slag	1,036	49	98	662	226	—	85.4	1,213
<b>Subtotal other non-metal. min.</b>	<b>8,002</b>	<b>5</b>	<b>76</b>	<b>7,798</b>	<b>123</b>	<b>—</b>	<b>92.0</b>	<b>8,698</b>
4900 non-metal. min. nec	8,002	5	76	7,798	123	—	92.0	8,698
<b>Total primary manufactured goods</b>	<b>39,634</b>	<b>7,968</b>	<b>1,441</b>	<b>26,849</b>	<b>3,378</b>	<b>—</b>	<b>93.4</b>	<b>42,426</b>
<b>Subtotal paper products</b>	<b>133</b>	<b>71</b>	<b>—</b>	<b>61</b>	<b>1</b>	<b>—</b>	<b>49.3</b>	<b>271</b>
5110 newsprint	24	3	—	21	—	—	81.0	29
5120 paper & paperboard	18	1	—	15	1	—	49.5	35
5190 paper products nec	92	67	—	25	—	—	44.7	206
<b>Subtotal lime, cement and glass</b>	<b>16,569</b>	<b>2,641</b>	<b>1,433</b>	<b>11,682</b>	<b>814</b>	<b>—</b>	<b>87.5</b>	<b>18,932</b>
5210 lime	3,059	10	—	3,049	—	—	100.0	3,059
5220 cement & concrete	13,223	2,545	1,433	8,434	811	—	85.7	15,435
5240 glass & glass prod.	13	4	—	9	—	—	81.6	16
5290 misc. mineral prod.	274	81	—	190	3	—	65.0	421
<b>Subtotal primary iron and steel products</b>	<b>14,308</b>	<b>146</b>	<b>8</b>	<b>12,942</b>	<b>1,212</b>	<b>—</b>	<b>99.2</b>	<b>14,422</b>
5312 pig iron	5,645	—	5	4,479	1,161	—	100.0	5,645
5315 ferro alloys	938	—	—	929	10	—	100.0	938
5320 i&s primary forms	904	—	—	901	4	—	100.0	904
5330 i&s plates & sheets	3,178	—	2	3,152	24	—	100.0	3,178
5360 i&s bars & shapes	2,141	37	—	2,094	10	—	99.9	2,142
5370 i&s pipe & tube	466	10	—	456	—	—	80.9	576
5390 primary i&s nec	1,036	99	—	932	5	—	99.8	1,038
<b>Subtotal primary non-ferrous metal products</b>	<b>8,545</b>	<b>5,054</b>	<b>—</b>	<b>2,140</b>	<b>1,350</b>	<b>—</b>	<b>98.0</b>	<b>8,719</b>
5421 copper	50	—	—	50	—	—	99.8	50
5422 aluminum	488	—	—	485	3	—	99.9	488
5429 smelted prod. nec	309	—	—	307	2	—	99.9	310
5480 fab. metal products	7,697	5,054	—	1,297	1,346	—	97.8	7,871
<b>Subtotal primary wood products</b>	<b>79</b>	<b>55</b>	<b>—</b>	<b>24</b>	<b>—</b>	<b>—</b>	<b>95.5</b>	<b>82</b>
5540 primary wood prod.	79	55	—	24	—	—	95.5	82
<b>Total food and farm products</b>	<b>94,210</b>	<b>3,812</b>	<b>—</b>	<b>90,131</b>	<b>267</b>	<b>—</b>	<b>96.6</b>	<b>97,556</b>
<b>Subtotal fish</b>	<b>21</b>	<b>21</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>28.4</b>	<b>74</b>
6134 fish (not shellfish)	21	21	—	—	—	—	28.4	73
<b>Subtotal grain</b>	<b>54,943</b>	<b>108</b>	<b>—</b>	<b>54,776</b>	<b>58</b>	<b>—</b>	<b>99.3</b>	<b>55,328</b>
6241 wheat	9,334	74	—	9,243	17	—	96.5	9,677
6344 corn	41,719	24	—	41,663	32	—	100.0	41,720
6442 rice	2,134	6	—	2,127	0	—	98.1	2,176
6443 barley & rye	248	—	—	248	—	—	100.0	248
6445 oats	250	4	—	242	3	—	100.0	250
6447 sorghum grains	1,258	—	—	1,252	6	—	100.0	1,258
<b>Subtotal oilseeds</b>	<b>25,966</b>	<b>—</b>	<b>—</b>	<b>25,952</b>	<b>14</b>	<b>—</b>	<b>100.0</b>	<b>25,966</b>
6522 soybeans	21,538	—	—	21,523	14	—	100.0	21,538
6590 oilseeds nec	4,428	—	—	4,428	—	—	100.0	4,429
<b>Subtotal vegetable products</b>	<b>1,073</b>	<b>56</b>	<b>—</b>	<b>995</b>	<b>22</b>	<b>—</b>	<b>91.2</b>	<b>1,177</b>
6653 vegetable oils	1,034	37	—	974	22	—	99.7	1,036
6654 vegetables & prod.	40	19	—	21	—	—	28.3	140
<b>Subtotal processed grain and animal feed</b>	<b>7,583</b>	<b>684</b>	<b>—</b>	<b>6,771</b>	<b>127</b>	<b>—</b>	<b>98.6</b>	<b>7,689</b>
6746 wheat flour	24	2	—	22	—	—	63.6	37
6747 grain mill products	1,064	661	—	391	11	—	99.3	1,071
6781 hay & fodder	36	1	—	35	—	—	96.9	37
6782 animal feed, prep.	6,460	21	—	6,324	116	—	98.7	6,544

Table 2-3: DOMESTIC BARGE TRAFFIC  
 BY TYPE OF TRAFFIC AND COMMODITY  
 Freight Traffic, 2002 - continued

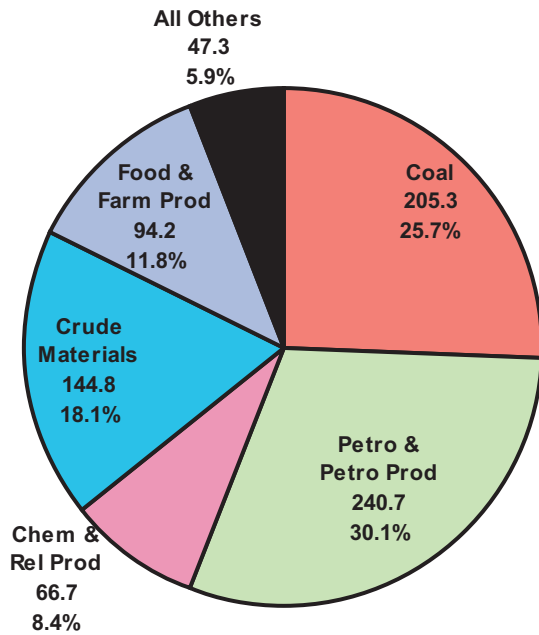
Commodity	Barge-Traffic						Domestic	
	Total	Coastwise	Lakewise	Internal	Intraport	Intra-Territory	%-Barge	Traffic
<b>Subtotal other agricultural products</b>	<b>4,624</b>	<b>2,942</b>	---	<b>1,637</b>	<b>45</b>	---	<b>63.2</b>	<b>7,322</b>
6811 meat, fresh, frozen	11	11	---	0	---	---	11.5	99
6822 dairy products	7	0	---	6	---	---	16.2	41
6835 fish, prepared	29	14	---	15	---	---	10.3	281
6838 tallow, animal oils	9	2	---	4	3	---	75.0	12
6839 animals & prod. nec	14	14	---	---	---	---	40.4	34
6856 bananas & plantains	0	0	---	---	---	---	1.2	3
6857 fruit & nuts nec	1	1	---	---	---	---	2.2	33
6858 fruit juices	79	79	---	0	---	---	38.5	206
6861 sugar	2,152	1,238	---	914	---	---	99.7	2,157
6865 molasses	494	90	---	374	30	---	89.4	552
6871 coffee	1	1	---	---	---	---	23.1	6
6885 alcoholic beverages	79	38	---	41	---	---	33.5	236
6887 groceries	585	441	---	143	1	---	57.2	1,023
6888 water & ice	50	0	---	38	12	---	5.2	954
6889 food products nec	1,097	1,002	---	95	---	---	67.4	1,628
6899 farm products nec	17	11	---	6	---	---	36.8	46
<b>Total all manufactured equipment, machinery and products</b>	<b>4,918</b>	<b>2,942</b>	<b>0</b>	<b>1,528</b>	<b>448</b>	---	<b>33.7</b>	<b>14,576</b>
7110 machinery (not elec)	242	56	0	181	4	---	5.0	4,857
7120 electrical machinery	22	4	---	16	2	---	47.2	48
7210 vehicles & parts	828	799	---	29	1	---	74.6	1,110
7220 aircraft & parts	4	0	---	4	0	---	98.3	4
7230 ships & boats	9	3	---	5	0	---	70.0	12
7300 ordnance & access.	3	1	---	2	---	---	99.5	3
7400 manufac. wood prod.	242	213	---	28	1	---	57.6	419
7500 textile products	15	1	---	14	---	---	23.7	62
7600 rubber & plastic pr.	36	3	---	33	---	---	76.1	48
7900 manufac. prod. nec	3,518	1,863	---	1,216	440	---	43.9	8,014
<b>Total waste and scrap nec</b>	<b>2,720</b>	<b>82</b>	---	<b>972</b>	<b>1,667</b>	---	<b>99.1</b>	<b>2,745</b>
8900 waste and scrap nec	2,720	82	---	972	1,667	---	99.1	2,745
<b>Total unknown or not elsewhere classified</b>	<b>3</b>	<b>3</b>	---	---	---	---	<b>1.4</b>	<b>208</b>
9900 unknown or nec	3	3	---	---	---	---	1.4	208

Figure 2-1  
 DOMESTIC COMMERCE, 2002  
 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

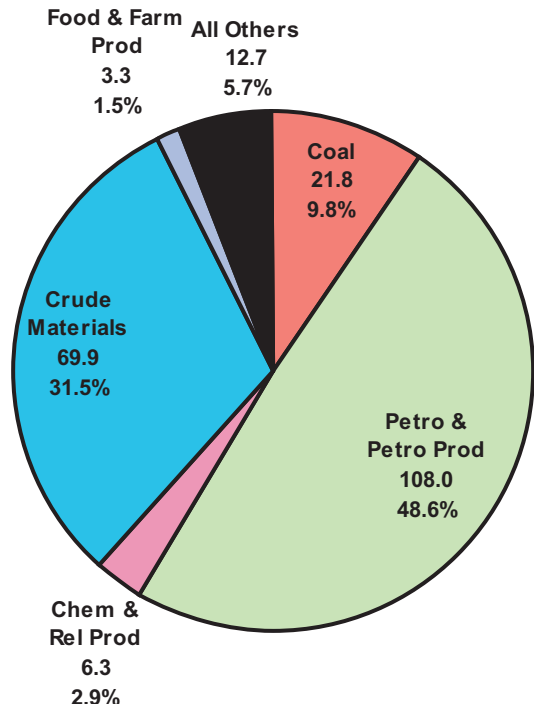
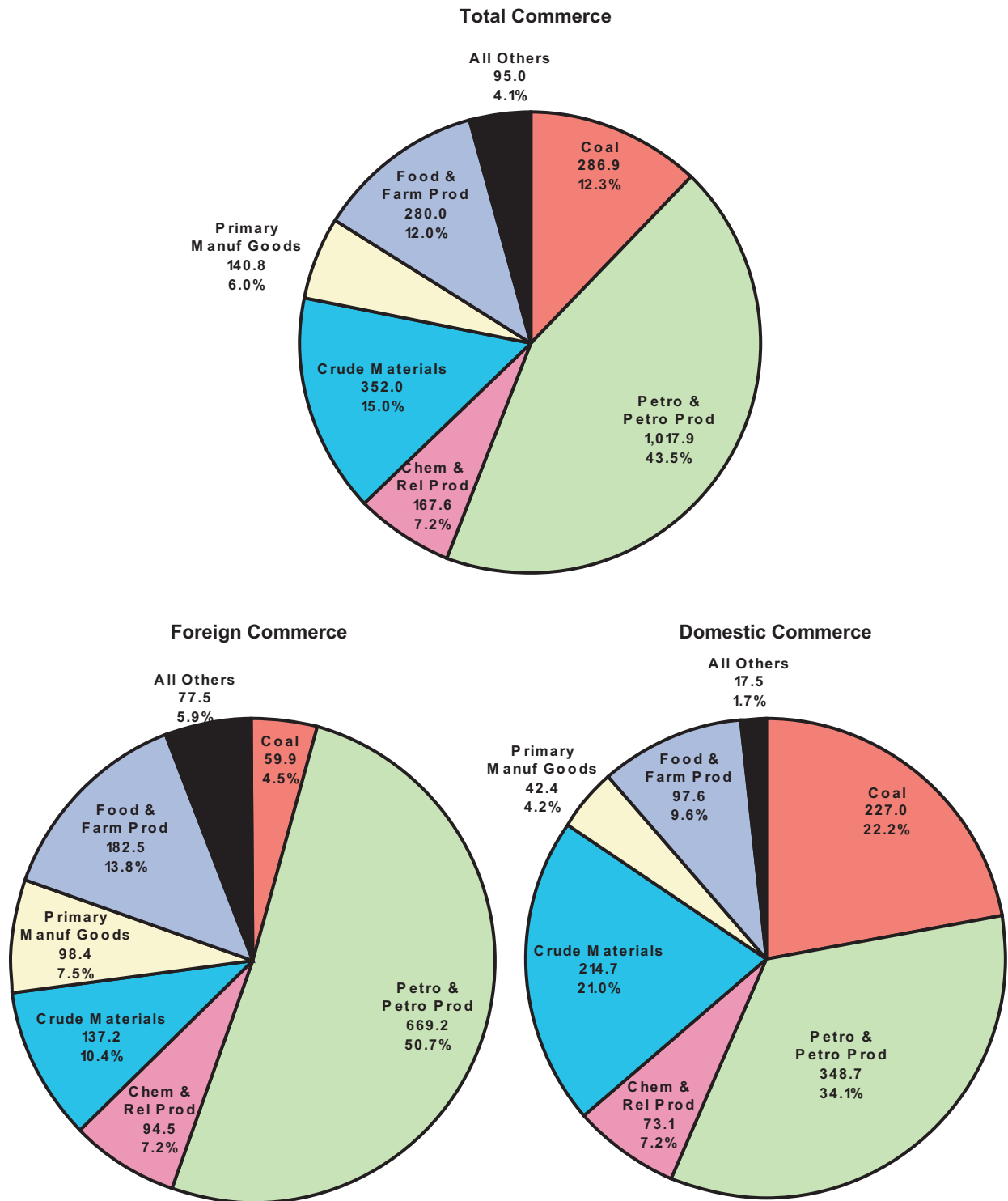


Table 2-4: PRINCIPAL COMMODITIES IN WATERBORNE COMMERCE, 2001-2002  
(million short tons)

	2001	2002	%Change
<b>Total Commerce</b>	<b>2,393.3</b>	<b>2,340.3</b>	<b>-2.2</b>
Coal	303.3	286.9	-5.4
Petro & Petro Prod	1,055.3	1,017.9	-3.5
Chem & Rel Prod	169.7	167.6	-1.2
Crude Materials	354.0	352.0	-0.6
Primary Manuf Goods	137.1	140.8	2.7
Food and Farm Prod	281.9	280.0	-0.6
All Manuf Equip	80.3	81.9	1.9
Other	11.7	13.2	12.8
<b>Foreign Commerce</b>	<b>1,350.1</b>	<b>1,319.3</b>	<b>-2.3</b>
Coal	75.6	59.9	-20.8
Petro & Petro Prod	685.6	669.2	-2.4
Chem & Rel Prod	98.6	94.5	-4.1
Crude Materials	140.3	137.2	-2.2
Primary Manuf Goods	96.7	98.4	1.7
Food and Farm Prod	185.3	182.5	-1.5
All Manuf Equip	60.5	67.3	11.3
Other	8.2	10.2	25.5
<b>Domestic Commerce</b>	<b>1,042.5</b>	<b>1,021.0</b>	<b>-2.1</b>
Coal	227.7	227.0	-0.3
Petro & Petro Prod	369.7	348.7	-5.7
Chem & Rel Prod	71.1	73.1	2.8
Crude Materials	213.7	214.7	0.5
Primary Manuf Goods	40.3	42.4	5.2
Food and Farm Prod	96.5	97.6	1.1
All Manuf Equip	19.9	14.6	-26.6
Other	3.5	3.0	-16.5



Figure 2-2  
 PRINCIPAL COMMODITY GROUPS CARRIED BY WATER, 2002  
 (million short tons and percentage of short tons)





## Section 3

### Waterways



Figure 3-1  
MISSISSIPPI RIVER SYSTEM, 1983-2002  
BY TYPE OF TRAFFIC  
(million short tons)

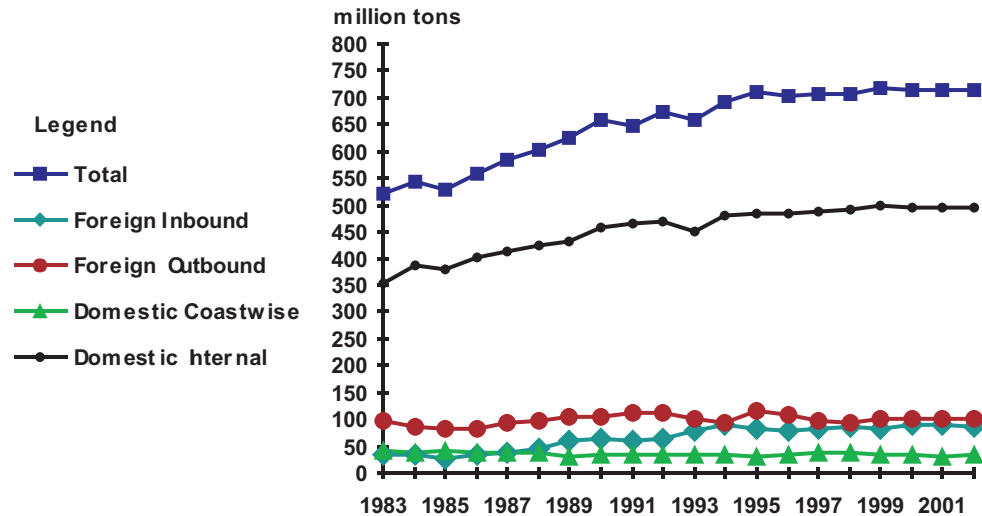


Table 3-1: MISSISSIPPI RIVER SYSTEM, 1983-2002  
BY TYPE OF TRAFFIC\*  
(million short tons)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
<b>Total</b>	<b>519.1</b>	<b>543.5</b>	<b>527.8</b>	<b>556.4</b>	<b>583.4</b>	<b>601.6</b>	<b>626.4</b>	<b>659.1</b>	<b>646.6</b>	<b>673.1</b>
Foreign										
Inbound	32.3	34.1	27.0	35.1	38.1	45.3	59.9	63.1	60.1	63.0
Outbound	95.8	85.9	81.0	81.1	93.7	97.5	104.0	106.0	109.9	112.3
Domestic										
Coastwise	39.1	36.7	40.9	37.4	37.4	35.8	31.1	32.6	31.3	32.3
Internal	352.0	386.6	378.9	402.8	414.2	423.0	431.5	457.5	445.1	465.4
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>Total</b>	<b>660.4</b>	<b>693.3</b>	<b>707.2</b>	<b>701.8</b>	<b>707.1</b>	<b>707.4</b>	<b>716.9</b>	<b>715.5</b>	<b>714.8</b>	<b>712.8</b>
Foreign										
Inbound	76.9	89.8	81.5	77.3	83.5	85.2	83.5	87.7	87.8	86.3
Outbound	100.0	92.4	115.8	108.7	98.5	94.7	99.2	100.5	99.8	99.2
Domestic										
Coastwise	31.8	32.4	30.6	33.0	36.3	36.7	34.6	34.1	30.9	33.0
Internal	451.7	478.7	479.4	482.8	488.9	490.7	499.6	493.1	496.3	494.3

\* Foreign Inbound includes Upbound Thru Traffic. Foreign Outbound includes Downbound Thru Traffic.

Figure 3-2  
MISSISSIPPI RIVER SYSTEM, 1983-2002  
ALL TRAFFIC BY COMMODITY GROUP  
(million short tons)

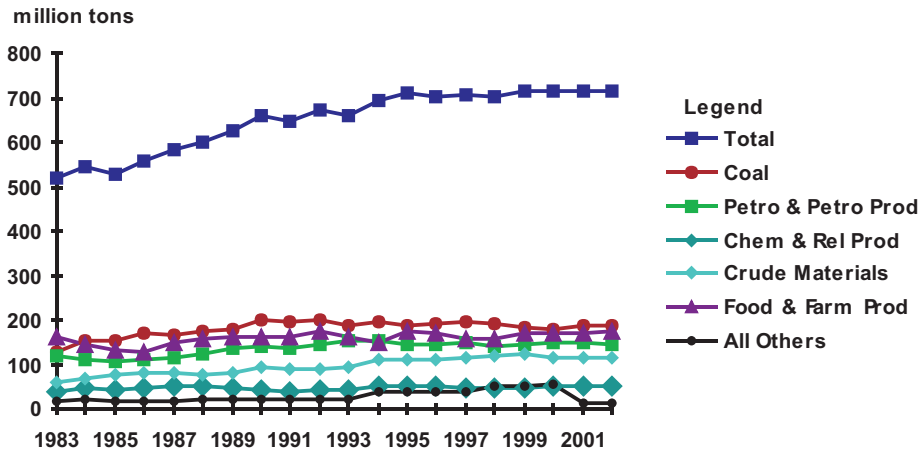


Table 3-2: MISSISSIPPI RIVER SYSTEM, 1983-2002  
ALL TRAFFIC BY COMMODITY GROUP  
(million short tons)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
<b>Total</b>	<b>519.1</b>	<b>543.5</b>	<b>527.8</b>	<b>556.4</b>	<b>583.4</b>	<b>601.6</b>	<b>626.4</b>	<b>659.1</b>	<b>646.6</b>	<b>673.1</b>
Coal	129.0	153.0	152.0	171.1	167.9	173.8	180.3	200.8	197.5	199.7
Petro & Petro Prod	118.7	110.5	107.6	112.1	116.9	124.4	138.2	140.9	137.9	144.6
Chem & Rel Prod	37.8	45.7	44.4	48.6	50.6	50.8	45.8	41.8	40.0	42.0
Crude Materials	58.3	68.2	75.6	80.0	79.5	78.6	82.6	92.8	89.0	91.1
Primary Manuf Goods	14.2	18.6	16.5	17.5	17.1	18.3	18.1	18.3	19.4	18.9
Food & Farm Prod	159.8	146.5	130.6	125.8	150.4	156.4	160.1	163.4	161.9	175.7
All Manuf Equip	0.7	0.6	0.7	0.8	0.6	0.8	1.1	1.0	0.8	0.9
Other	0.7	0.4	0.4	0.3	0.4	0.4	0.4	0.1	0.1	0.2

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>Total</b>	<b>660.4</b>	<b>693.3</b>	<b>707.2</b>	<b>701.8</b>	<b>707.1</b>	<b>707.4</b>	<b>716.9</b>	<b>715.5</b>	<b>714.8</b>	<b>712.8</b>
Coal	186.1	194.2	188.1	192.3	194.2	191.5	182.4	177.2	188.4	187.9
Petro & Petro Prod	153.0	153.6	146.2	143.0	150.3	141.6	143.0	150.0	150.6	146.3
Chem & Rel Prod	43.5	50.3	51.4	49.9	48.9	47.4	46.6	50.3	49.9	50.4
Crude Materials	95.4	109.7	108.3	111.0	116.6	120.5	121.9	115.8	115.7	113.0
Primary Manuf Goods	21.6	36.5	37.3	34.6	36.7	46.5	49.8	50.4	37.0	39.0
Food & Farm Prod	159.6	147.7	174.5	168.3	157.6	157.0	171.2	169.0	171.1	174.4
All Manuf Equip	1.1	1.1	1.2	2.5	2.5	2.6	1.8	2.1	1.8	1.5
Other	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.7	0.1	0.2

Figure 3-3  
MISSISSIPPI RIVER SYSTEM, 1983-2002  
INTERNAL TRAFFIC BY COMMODITY GROUP  
(million short tons)

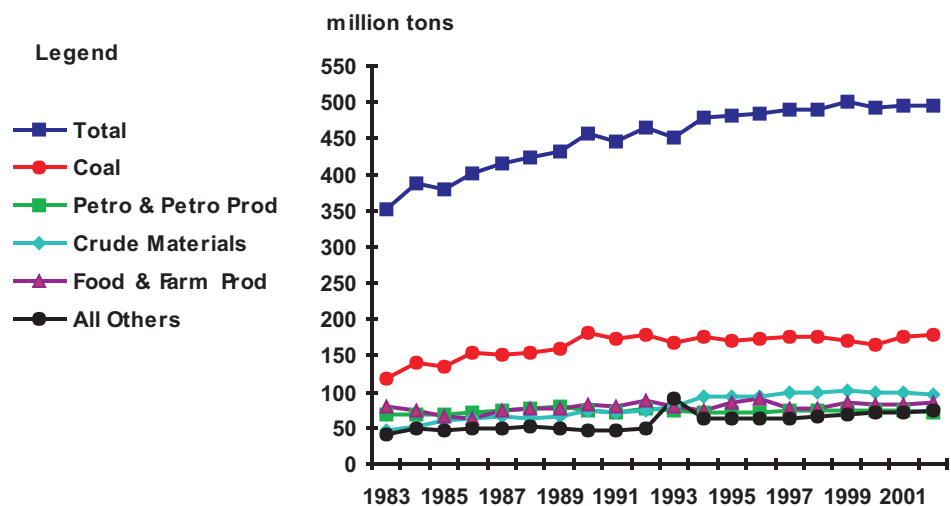


Table 3-3: MISSISSIPPI RIVER SYSTEM, 1983-2002  
INTERNAL TRAFFIC BY COMMODITY GROUP  
(million short tons)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
<b>Total</b>	<b>352.0</b>	<b>386.6</b>	<b>378.9</b>	<b>402.8</b>	<b>414.2</b>	<b>423.0</b>	<b>431.5</b>	<b>457.5</b>	<b>445.1</b>	<b>465.4</b>
Coal	117.0	141.3	135.8	153.6	151.1	153.3	159.4	180.1	174.3	178.4
Petro & Petro Prod	69.1	70.0	70.1	72.7	73.8	78.2	79.0	74.1	72.0	76.7
Chem & Rel Prod	28.5	34.3	33.4	35.7	36.7	37.7	34.6	31.1	30.7	33.2
Crude Materials	46.7	52.9	60.7	63.7	65.0	62.3	65.7	75.2	72.5	74.2
Primary Manuf Goods	10.8	13.7	12.4	13.0	13.1	13.6	13.9	14.3	14.8	14.5
Food & Farm Prod	78.9	73.7	65.9	63.2	73.9	77.1	77.9	82.0	80.3	87.7
All Manuf Equip	0.3	0.4	0.3	0.5	0.3	0.5	0.7	0.6	0.5	0.5
Other	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.2

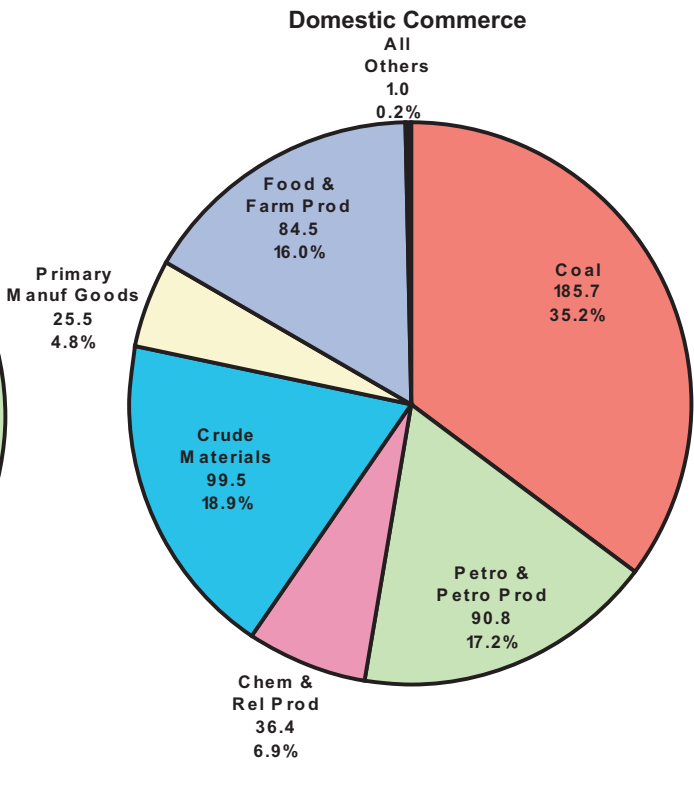
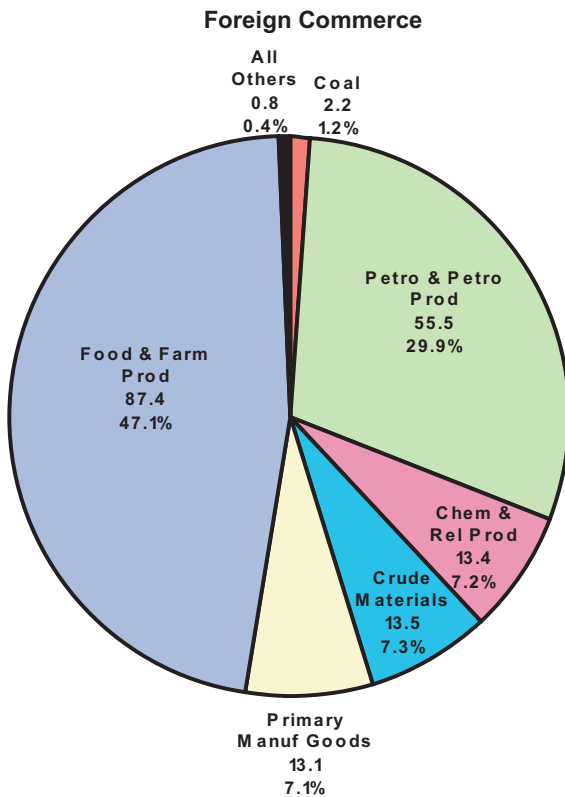
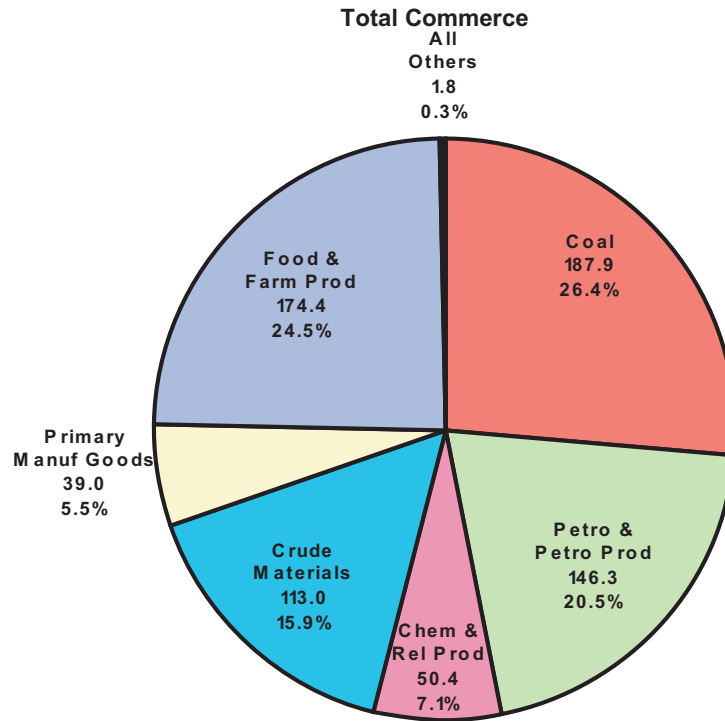
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>Total</b>	<b>451.7</b>	<b>478.7</b>	<b>479.4</b>	<b>482.8</b>	<b>488.9</b>	<b>490.7</b>	<b>499.6</b>	<b>493.1</b>	<b>496.3</b>	<b>494.3</b>
Coal	167.8	176.7	169.4	173.3	174.9	174.8	169.3	166.0	177.1	177.6
Petro & Petro Prod	73.7	72.6	71.7	71.9	74.0	74.8	73.2	73.1	75.3	72.5
Chem & Rel Prod	34.4	38.7	39.0	37.8	38.1	36.7	36.2	36.1	34.4	35.5
Crude Materials	79.1	92.4	90.5	93.4	98.2	98.4	102.8	100.2	99.0	95.8
Primary Manuf Goods	15.5	22.9	23.8	22.3	23.4	27.2	30.7	32.5	25.5	25.9
Food & Farm Prod	80.4	74.5	84.1	81.7	77.9	76.5	85.7	83.0	83.5	86.1
All Manuf Equip	0.7	0.7	0.8	2.1	2.2	2.2	1.5	1.5	1.2	0.8
Other	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.6	0.3	0.1

Table 3-4: PRINCIPAL COMMODITIES IN WATERBORNE COMMERCE, 2001-2002  
 FOR THE MISSISSIPPI RIVER SYSTEM  
 (million short tons)

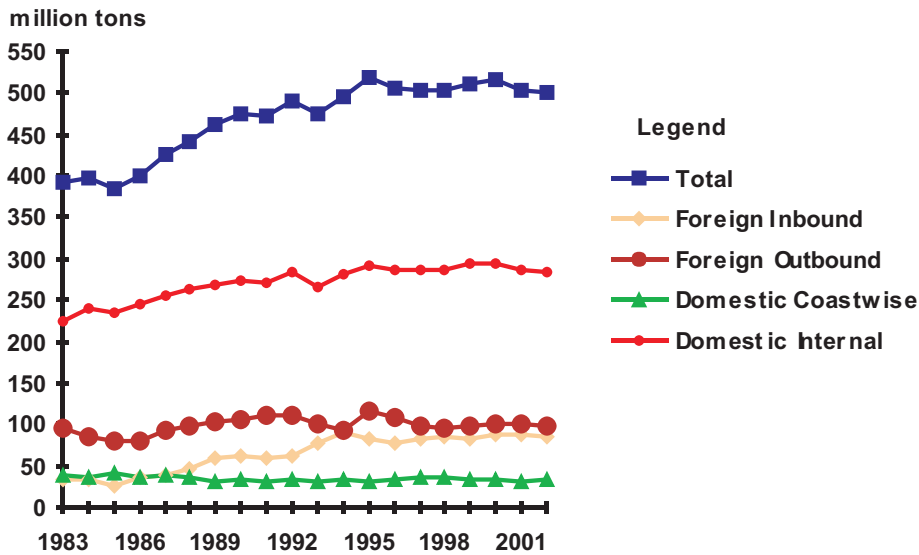
	2001	2002	%Change
<b>Foreign Commerce</b>	<b>187.6</b>	<b>185.5</b>	<b>-1.1</b>
Coal	4.0	2.2	-44.6
Petro & Petro Prod	56.7	55.5	-2.2
Chem & Rel Prod	13.4	13.0	-2.9
Crude Materials	14.9	13.5	-9.4
Primary Manuf Goods	11.5	13.1	13.8
Food & Farm Prod	86.6	87.4	0.9
Other	0.5	0.8	49.8
<b>Coastwise Traffic</b>	<b>30.9</b>	<b>33.0</b>	<b>6.6</b>
Coal	7.3	8.1	10.4
Petro & Petro Prod	18.6	18.4	-1.3
Chem & Rel Prod	2.1	1.9	-7.5
Crude Materials	1.9	3.7	98.9
Primary Manuf Goods	0.0	0.0	531.6
Food & Farm Prod	1.0	0.9	-13.4
Other	0.0	0.0	-86.0
<b>Internal Traffic</b>	<b>496.3</b>	<b>494.3</b>	<b>-0.4</b>
Coal	177.1	177.6	0.3
Petro & Petro Prod	75.3	72.5	-3.7
Chem & Rel Prod	34.4	35.5	3.1
Crude Materials	99.0	95.8	-3.2
Primary Manuf Goods	25.5	25.9	1.6
Food & Farm Prod	83.5	86.1	3.2
Other	1.6	1.0	-39.2



Figure 3-4  
 PRINCIPAL COMMODITY GROUPS CARRIED BY WATER, 2002  
 FOR THE MISSISSIPPI RIVER SYSTEM  
 (million short tons and percentage of short tons)



*Figure 3-5*  
**MISSISSIPPI RIVER MAIN STEM, 1983-2002**  
**BY TYPE OF TRAFFIC**  
 (million short tons)



*Table 3-5: MISSISSIPPI RIVER MAIN STEM, 1983-2002*  
**BY TYPE OF TRAFFIC\***  
 (million short tons)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
<b>Total</b>	<b>392.1</b>	<b>397.3</b>	<b>384.0</b>	<b>399.9</b>	<b>425.0</b>	<b>441.5</b>	<b>462.7</b>	<b>475.3</b>	<b>471.7</b>	<b>491.0</b>
Foreign										
Inbound	32.3	34.1	27.0	35.1	38.1	45.3	59.9	63.1	60.1	63.0
Outbound	95.8	85.9	81.0	81.1	93.7	97.5	104.0	106.0	109.9	112.3
Domestic										
Coastwise	39.1	36.9	40.9	37.4	37.4	35.8	31.1	32.6	31.3	32.4
Internal	225.0	240.4	235.0	246.3	255.8	262.9	267.8	273.6	270.3	283.3

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>Total</b>	<b>475.1</b>	<b>496.8</b>	<b>520.3</b>	<b>505.6</b>	<b>504.7</b>	<b>503.9</b>	<b>512.3</b>	<b>515.6</b>	<b>504.2</b>	<b>501.7</b>
Foreign										
Inbound	76.9	89.8	81.5	77.3	83.5	85.2	83.5	87.7	87.8	86.3
Outbound	100.0	92.4	115.8	108.7	98.5	94.7	99.2	100.5	99.8	99.2
Domestic										
Coastwise	31.8	32.4	30.6	33.0	36.3	36.7	34.6	34.1	30.9	33.0
Internal	266.5	282.2	292.4	286.5	286.5	287.3	295.0	293.3	285.6	283.3

\* Foreign Inbound includes Upbound Thru Traffic. Foreign Outbound includes Downbound Thru Traffic.

Figure 3-6  
MISSISSIPPI RIVER MAIN STEM, 1983-2002  
BY COMMODITY GROUP  
(million short tons)

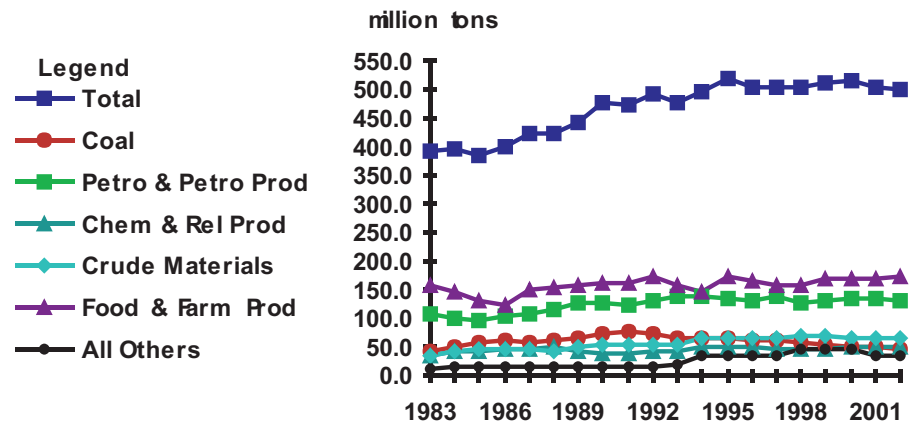


Table 3-6: MISSISSIPPI RIVER MAIN STEM, 1983-2002  
BY COMMODITY GROUP  
(million short tons)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
<b>Total</b>	<b>392.1</b>	<b>397.3</b>	<b>384.0</b>	<b>399.9</b>	<b>425.0</b>	<b>441.5</b>	<b>462.7</b>	<b>475.3</b>	<b>471.7</b>	<b>491.0</b>
Coal	41.2	49.7	56.8	62.9	59.3	62.3	63.7	73.7	77.2	73.1
Petro & Petro Prod	108.8	99.2	96.7	102.6	107.3	115.3	128.8	127.7	124.4	130.8
Chem & Rel Prod	36.0	43.0	41.1	46.2	47.9	48.3	44.0	40.3	38.4	40.4
Crude Materials	34.2	42.7	44.9	47.4	45.7	43.7	50.4	55.1	53.8	55.5
Primary Manuf Goods	12.1	16.3	14.3	15.3	14.8	15.8	15.4	15.3	16.4	15.7
Food & Farm Prod	158.8	145.6	129.1	124.4	149.0	155.1	158.8	162.1	160.6	174.4
All Manuf Equip	0.6	0.6	0.7	0.8	0.6	0.8	1.1	1.0	0.8	0.9
Other	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.1	0.1	0.2

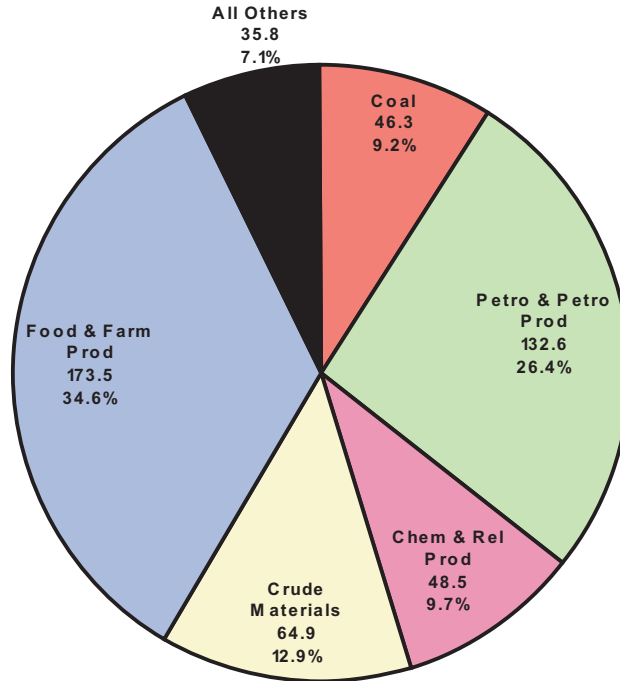
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>Total</b>	<b>475.1</b>	<b>496.8</b>	<b>520.3</b>	<b>505.6</b>	<b>504.7</b>	<b>503.9</b>	<b>512.3</b>	<b>515.6</b>	<b>504.2</b>	<b>501.7</b>
Coal	64.1	65.4	64.6	63.3	61.7	59.2	52.0	50.0	50.4	46.3
Petro & Petro Prod	138.4	139.4	133.0	130.2	136.6	127.7	129.3	135.4	136.5	132.6
Chem & Rel Prod	41.6	48.6	49.7	48.4	47.2	45.7	45.0	48.5	48.2	48.5
Crude Materials	54.3	63.5	65.0	63.5	66.8	69.7	69.4	65.9	65.2	64.9
Primary Manuf Goods	18.3	32.9	34.0	31.0	33.5	43.1	45.0	45.9	32.0	34.1
Food & Farm Prod	157.4	145.9	172.8	167.0	156.5	155.9	169.9	167.9	169.9	173.5
All Manuf Equip	1.0	0.9	1.0	2.0	2.2	2.3	1.6	1.7	1.7	1.4
Other	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3

Table 3-7: PRINCIPAL COMMODITIES IN WATERBORNE COMMERCE, 2001-2002  
FOR THE MISSISSIPPI RIVER MAIN STEM  
(million short tons)

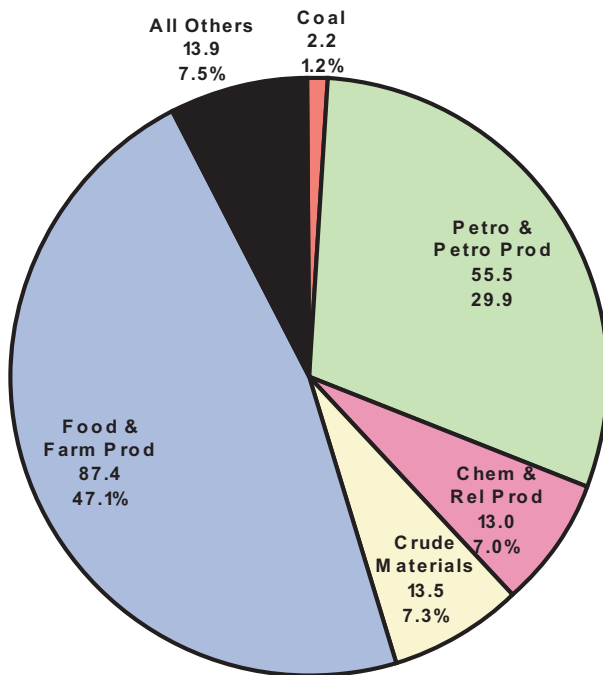
	2001	2002	%Change
<b>Total Commerce</b>	<b>504.2</b>	<b>501.7</b>	<b>-0.5</b>
Coal	50.4	46.3	-8.2
Petro & Petro Prod	136.5	132.6	-2.8
Chem & Rel Prod	48.2	48.5	0.7
Crude Materials	65.2	64.9	-0.6
Primary Manuf Goods	32.0	34.1	6.8
Food & Farm Prod	169.9	173.5	2.2
Other	2.0	1.7	-7.3
<b>Foreign Commerce</b>	<b>187.6</b>	<b>185.5</b>	<b>-1.1</b>
Coal	4.0	2.2	-44.6
Petro & Petro Prod	56.7	55.5	-2.2
Chem & Rel Prod	13.4	13.0	-2.9
Crude Materials	14.9	13.5	-9.4
Primary Manuf Goods	11.5	13.1	13.8
Food & Farm Prod	86.6	87.4	0.9
Other	0.5	0.8	49.8
<b>Domestic Commerce</b>	<b>316.5</b>	<b>316.2</b>	<b>-0.1</b>
Coal	46.5	44.1	-5.1
Petro & Petro Prod	79.8	77.2	-3.3
Chem & Rel Prod	34.8	35.5	2.1
Crude Materials	50.4	51.4	2.0
Primary Manuf Goods	20.4	21.0	2.8
Food & Farm Prod	83.3	86.1	3.4
Other	1.5	0.9	-39.0

Figure 3-7  
 PRINCIPAL COMMODITY GROUPS CARRIED BY WATER, 2002  
 FOR THE MISSISSIPPI RIVER MAIN STEM  
 (million short tons and percentage of short tons)

**Total Commerce**



**Foreign Commerce**



**Domestic Commerce**

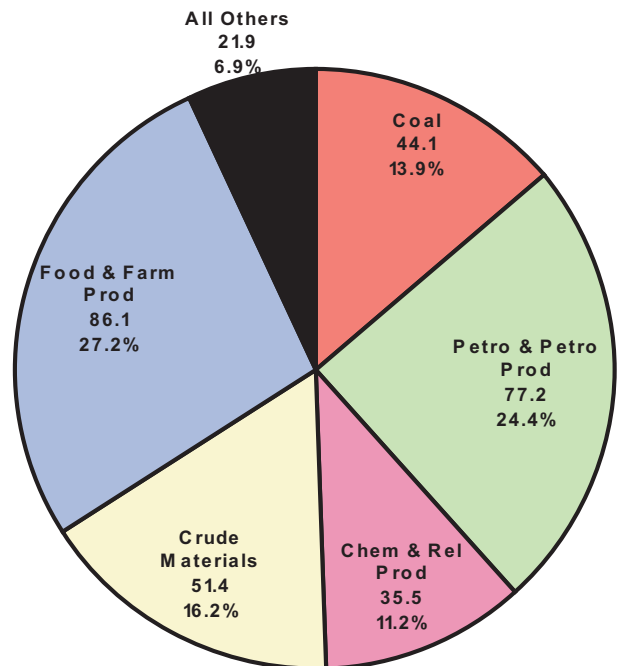


Figure 3-8  
OHIO RIVER SYSTEM, 1983-2002  
BY COMMODITY GROUP  
(million short tons)

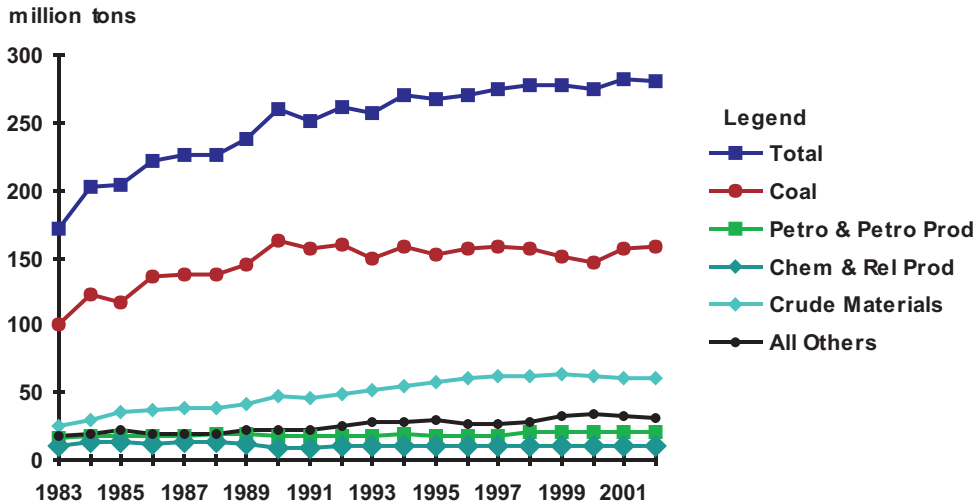


Table 3-8: OHIO RIVER SYSTEM, 1983-2002  
BY COMMODITY GROUP  
(million short tons)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
<b>Total</b>	<b>171.2</b>	<b>202.2</b>	<b>203.9</b>	<b>222.2</b>	<b>226.7</b>	<b>225.9</b>	<b>238.4</b>	<b>260.0</b>	<b>251.9</b>	<b>261.4</b>
Coal	100.7	122.5	117.3	135.9	137.3	136.7	144.6	163.0	156.8	159.8
Petro & Petro Prod	16.5	17.9	17.1	17.6	18.2	18.6	18.8	18.3	17.8	18.0
Chem & Rel Prod	10.9	13.2	12.9	12.4	12.6	13.3	11.7	9.1	9.4	10.0
Crude Materials	24.8	29.4	34.9	36.4	39.0	38.1	41.0	47.0	45.3	49.1
Primary Manuf Goods	5.3	6.6	6.2	6.1	6.1	6.5	7.0	7.2	7.4	7.5
Food & Farm Prod	13.0	12.5	15.4	13.8	13.5	12.5	15.2	15.3	15.0	16.9
Other	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>Total</b>	<b>257.3</b>	<b>270.5</b>	<b>267.6</b>	<b>270.9</b>	<b>274.9</b>	<b>277.9</b>	<b>277.9</b>	<b>274.4</b>	<b>281.8</b>	<b>280.9</b>
Coal	149.0	157.9	151.7	156.5	158.4	156.9	150.8	146.1	157.1	158.8
Petro & Petro Prod	18.1	18.9	18.2	17.7	18.3	20.7	21.1	20.8	20.9	20.5
Chem & Rel Prod	10.4	10.6	10.7	9.8	10.1	10.3	10.3	10.9	10.7	10.6
Crude Materials	51.1	55.3	57.9	60.0	61.5	62.6	63.6	62.0	60.7	59.9
Primary Manuf Goods	8.6	11.2	11.6	11.7	11.1	12.7	16.1	17.7	13.6	13.4
Food & Farm Prod	20.0	16.6	17.4	15.0	15.3	14.7	15.8	16.4	18.6	17.5
Other	0.1	0.1	0.1	0.2	0.0	0.1	0.1	0.5	0.1	0.1

*Figure 3-9*  
**PRINCIPAL COMMODITY GROUPS CARRIED BY WATER, 2002**  
**FOR THE OHIO RIVER SYSTEM**  
(million short tons and percentage of short tons)

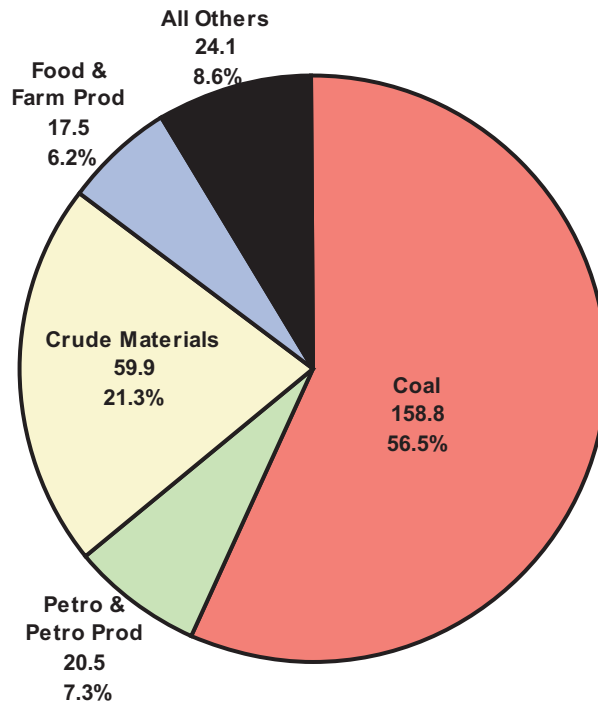


Table 3-9: PRINCIPAL COMMODITIES IN WATERBORNE COMMERCE, 2001-2002  
**FOR THE OHIO RIVER SYSTEM**  
(million short tons)

	2001	2002	%Change
<b>Total Commerce</b>	<b>281.8</b>	<b>280.9</b>	<b>-0.3</b>
Coal	157.1	158.8	1.1
Petroleum & Petroleum Products	20.9	20.5	-2.0
Chemicals & Related Products	10.7	10.6	-1.2
Crude Materials	60.7	59.9	-1.3
Primary Manufactured Goods	13.6	13.4	-1.3
Food & Farm Products	18.6	17.5	-5.7
Other	0.1	0.1	-43.8

Figure 3-10  
 GREAT LAKES, 1983-2002  
 BY TYPE OF TRAFFIC  
 (million short tons)

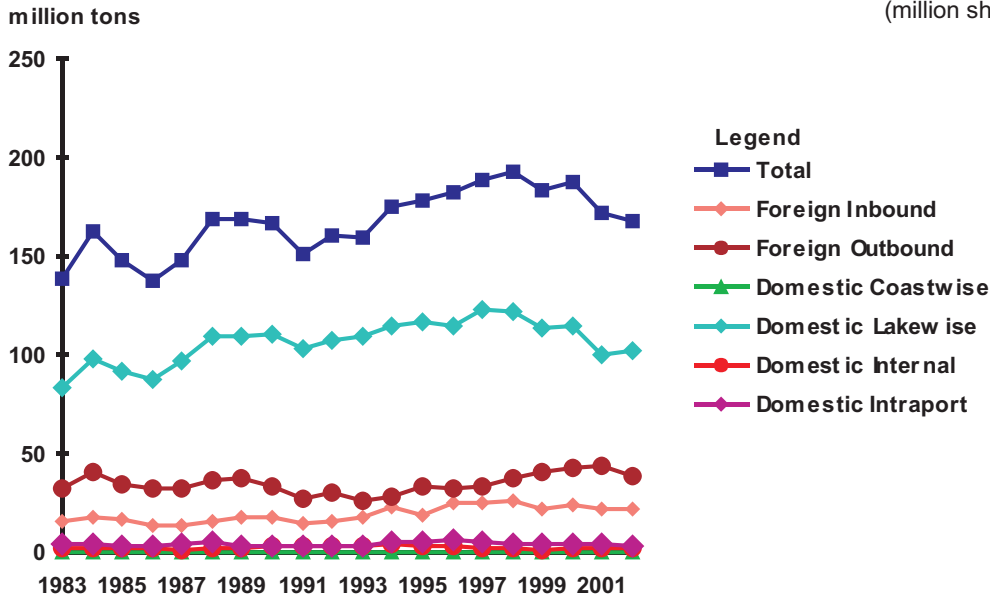


Table 3-10: GREAT LAKES, 1983-2002  
 BY TYPE OF TRAFFIC\*  
 (million short tons)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
<b>Total</b>	<b>138.2</b>	<b>162.8</b>	<b>148.1</b>	<b>137.9</b>	<b>148.1</b>	<b>168.8</b>	<b>168.9</b>	<b>167.1</b>	<b>151.1</b>	<b>159.9</b>
Foreign										
Inbound	16.1	17.8	17.1	13.8	13.9	15.9	17.8	17.6	14.2	15.4
Outbound	32.3	40.9	34.2	32.0	32.1	36.6	37.1	32.9	27.5	30.4
Domestic										
Coastwise	-	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0
Lakewise	83.5	98.0	92.0	87.4	96.5	109.7	109.1	110.2	103.4	107.4
Internal	2.5	1.8	2.2	1.7	1.4	1.6	1.7	3.1	3.2	3.4
Intraport	3.8	4.2	2.7	3.0	4.3	5.0	3.3	3.4	2.7	3.3

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>Total</b>	<b>159.6</b>	<b>175.3</b>	<b>177.8</b>	<b>181.8</b>	<b>188.6</b>	<b>192.2</b>	<b>182.9</b>	<b>187.5</b>	<b>171.4</b>	<b>167.2</b>
Foreign										
Inbound	18.1	23.1	18.9	24.5	24.5	25.6	22.2	23.9	22.0	21.5
Outbound	25.8	27.8	33.5	32.8	33.7	37.9	40.8	42.9	43.6	38.4
Domestic										
Coastwise	0.0	0.0	-	-	-	-	-	0.0	-	-
Lakewise	109.9	114.8	116.2	115.0	122.8	122.2	113.9	114.4	100.1	101.6
Internal	3.1	4.6	3.6	3.3	2.3	2.3	1.5	2.1	1.7	2.5
Intraport	2.8	5.0	5.5	6.2	5.2	4.3	4.4	4.2	4.0	3.2

\* Foreign Outbound includes Great Lakes Thru Foreign Traffic.



Figure 3-11  
 GREAT LAKES, 1983-2002  
 BY COMMODITY GROUP  
 (million short tons)

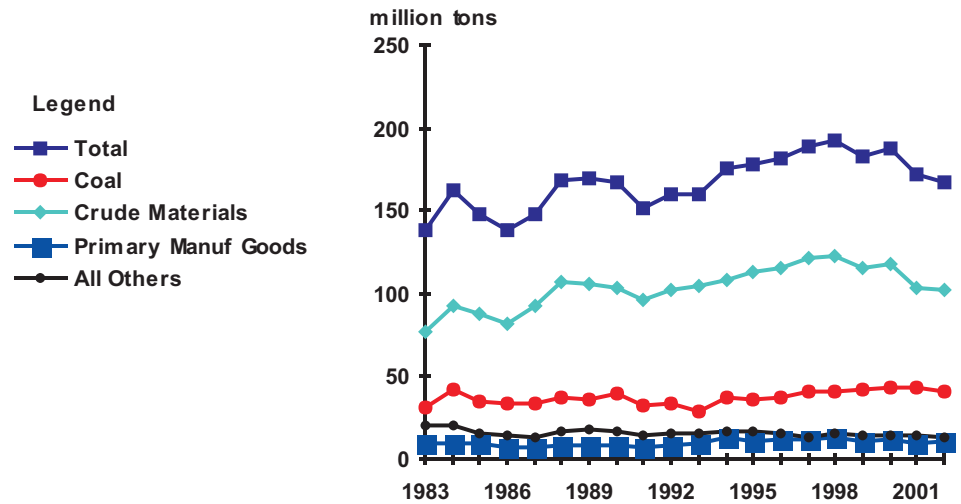


Table 3-11: GREAT LAKES, 1983-2002  
 BY COMMODITY GROUP  
 (million short tons)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
<b>Total</b>	<b>138.2</b>	<b>162.8</b>	<b>148.1</b>	<b>137.9</b>	<b>148.1</b>	<b>168.8</b>	<b>168.9</b>	<b>167.1</b>	<b>151.1</b>	<b>159.9</b>
Coal	31.0	41.6	34.8	34.1	33.6	36.7	35.7	39.4	32.8	33.4
Petro & Petro Prod	5.3	5.5	5.1	5.3	4.9	6.5	6.3	6.4	5.5	5.8
Chem & Rel Prod	2.2	2.6	2.7	2.4	2.3	2.4	2.5	2.7	2.2	1.9
Crude Materials	77.5	92.2	88.2	81.3	93.1	107.5	106.2	103.1	96.5	102.2
Primary Manuf Goods	9.5	9.1	9.5	7.8	7.6	8.1	8.7	8.4	7.6	8.3
Food & Farm Prod	9.8	11.6	7.6	6.8	6.4	7.1	8.6	6.2	5.2	6.9
All Manuf Equip	2.8	0.2	0.2	0.2	0.2	0.4	0.8	1.0	1.1	1.3
Other	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>Total</b>	<b>159.6</b>	<b>175.3</b>	<b>177.8</b>	<b>181.8</b>	<b>188.6</b>	<b>192.2</b>	<b>182.9</b>	<b>187.5</b>	<b>171.4</b>	<b>167.2</b>
Coal	29.2	36.7	36.3	37.8	40.9	40.4	41.6	43.3	43.8	41.4
Petro & Petro Prod	5.2	5.9	5.5	6.2	5.6	6.5	4.9	4.6	4.6	4.3
Chem & Rel Prod	1.7	1.6	1.6	1.5	1.4	1.3	1.3	2.0	2.1	2.2
Crude Materials	104.5	108.4	113.1	115.9	121.8	122.3	115.3	117.9	103.6	102.1
Primary Manuf Goods	9.7	13.1	11.1	12.1	12.2	13.4	11.3	11.7	10.2	11.1
Food & Farm Prod	7.6	8.6	10.0	8.1	6.5	8.1	8.3	7.7	7.0	6.0
All Manuf Equip	1.4	0.8	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2
Other	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0

Table 3-12: PRINCIPAL COMMODITIES IN WATERBORNE COMMERCE, 2001-2002  
FOR THE GREAT LAKES  
(million short tons)

	2001	2002	%Change
<b>Total Commerce</b>	<b>171.4</b>	<b>167.2</b>	<b>-2.4</b>
Coal	43.8	41.4	-5.5
Petro & Petro Prod	4.6	4.3	-6.0
Chem & Rel Prod	2.1	2.2	1.0
Crude Materials	103.6	102.1	-1.4
Primary Manuf Goods	10.2	11.1	9.2
Food and Farm Prod	7.0	6.0	-13.7
Other	0.2	0.2	20.0
<b>Foreign Commerce</b>	<b>65.6</b>	<b>60.0</b>	<b>-8.5</b>
Coal	24.4	21.2	-13.2
Petro & Petro Prod	1.4	1.5	5.3
Chem & Rel Prod	1.7	1.8	6.0
Crude Materials	25.3	23.2	-8.2
Primary Manuf Goods	6.1	6.6	9.5
Food and Farm Prod	6.6	5.5	-17.0
Other	0.1	0.1	20.7
<b>Domestic Commerce</b>	<b>105.8</b>	<b>107.2</b>	<b>1.4</b>
Coal	19.4	20.2	4.2
Petro & Petro Prod	3.1	2.8	-11.2
Chem & Rel Prod	0.4	0.3	-19.3
Crude Materials	78.3	78.9	0.7
Primary Manuf Goods	4.1	4.5	8.7
Food and Farm Prod	0.4	0.5	46.1
Other	0.1	0.0	-42.5

Figure 3-12  
 PRINCIPAL COMMODITY GROUPS CARRIED BY WATER, 2002  
 FOR THE GREAT LAKES  
 (million short tons and percentage of tons)

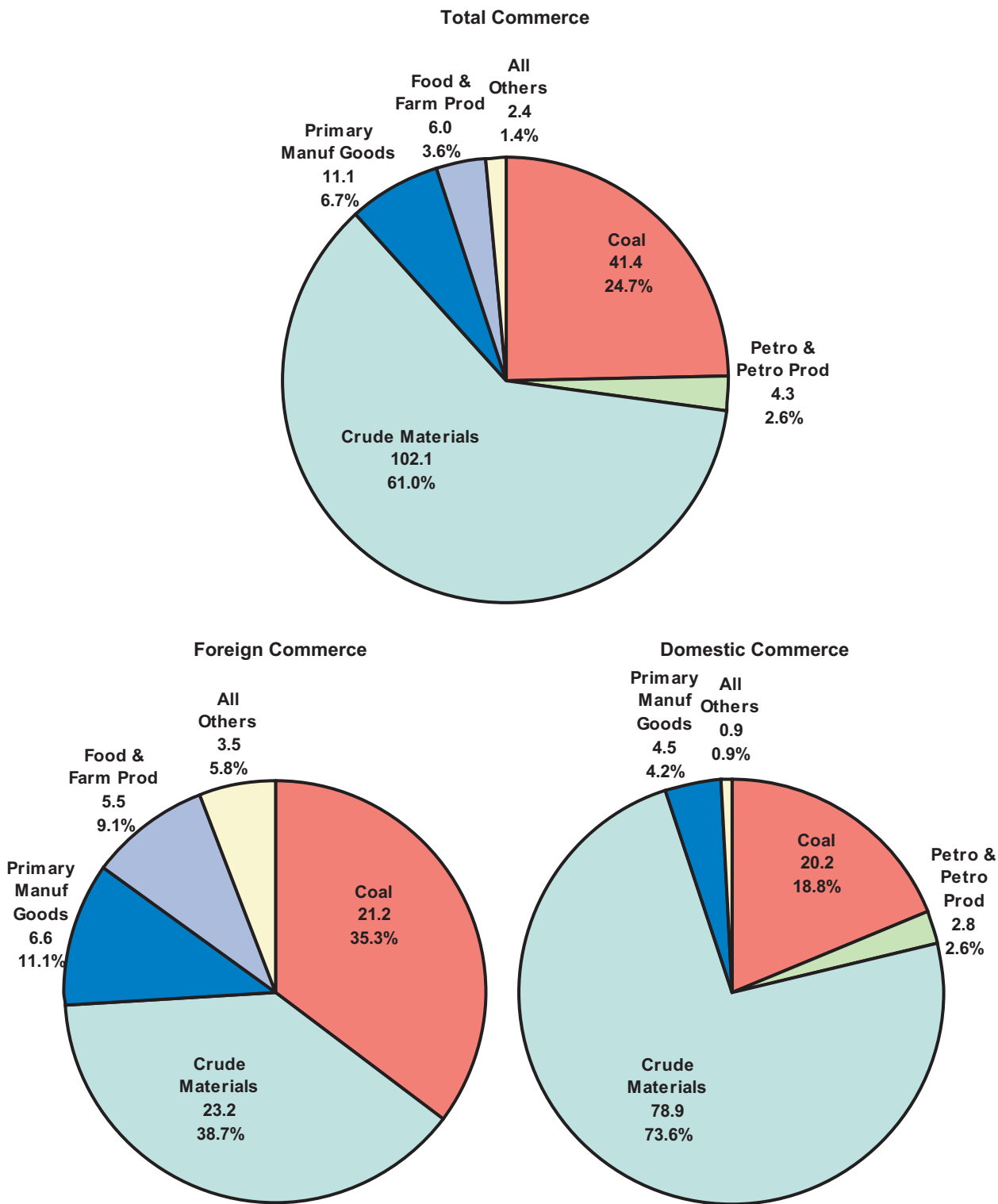


Figure 3-13  
 GULF INTRACOASTAL WATERWAY, 1983-2002  
 BY TYPE OF TRAFFIC  
 (million short tons)

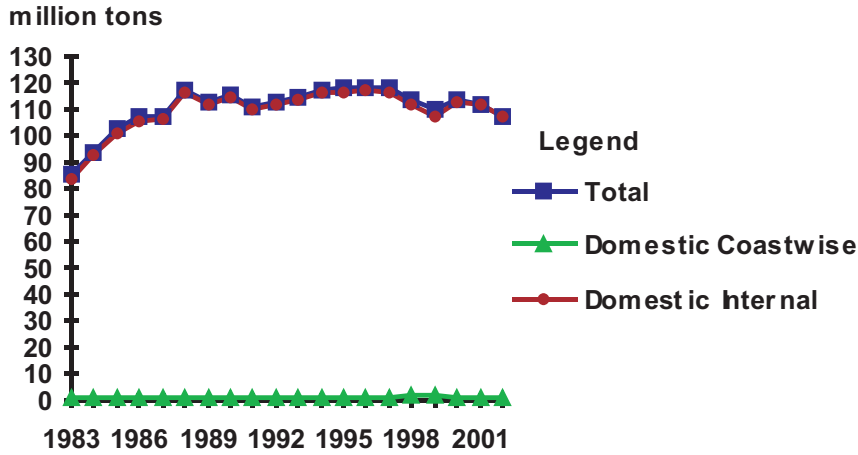


Table 3-13: GULF INTRACOASTAL WATERWAY, 1983-2002  
 BY TYPE OF TRAFFIC  
 (million short tons)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
<b>Total</b>	<b>85.1</b>	<b>93.4</b>	<b>102.5</b>	<b>107.0</b>	<b>107.0</b>	<b>117.7</b>	<b>112.7</b>	<b>115.4</b>	<b>111.0</b>	<b>112.3</b>
Foreign										
Inbound	-	-	0.0	0.0	0.0	0.4	0.3	-	-	-
Outbound	-	0.0	0.0	0.1	0.0	0.2	0.1	-	-	-
Domestic										
Coastwise	1.3	1.0	1.1	1.2	0.9	1.2	0.8	0.7	0.7	0.7
Internal	83.8	92.4	101.3	105.7	106.1	115.9	111.6	114.6	110.3	111.6

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>Total</b>	<b>114.9</b>	<b>117.6</b>	<b>118.0</b>	<b>118.0</b>	<b>118.1</b>	<b>113.6</b>	<b>109.6</b>	<b>113.8</b>	<b>112.2</b>	<b>107.7</b>
Foreign										
Inbound	-	-	-	-	-	-	-	-	-	-
Outbound	-	-	-	-	-	-	-	-	-	-
Domestic										
Coastwise	0.9	1.3	1.2	1.1	1.3	1.9	1.9	0.8	0.7	0.8
Internal	114.1	116.3	116.8	116.9	116.8	111.6	107.7	113.0	111.5	106.9

Figure 3-14  
 GULF INTRACOASTAL WATERWAY, 1983-2002  
 BY COMMODITY GROUP  
 (million short tons)

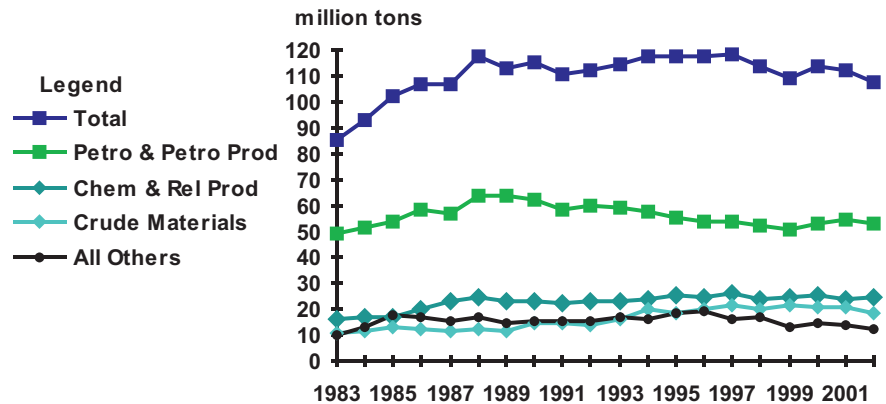


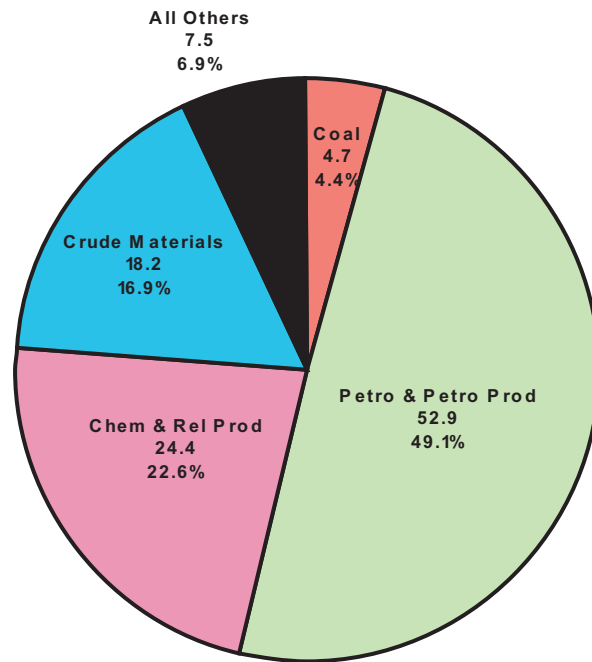
Table 3-14: GULF INTRACOASTAL WATERWAY, 1983-2002  
 BY COMMODITY GROUP  
 (million short tons)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
<b>Total</b>	<b>85.1</b>	<b>93.4</b>	<b>102.5</b>	<b>107.0</b>	<b>107.0</b>	<b>117.7</b>	<b>112.7</b>	<b>115.4</b>	<b>111.0</b>	<b>112.3</b>
Coal	3.9	6.8	7.2	8.8	8.0	8.0	7.5	9.2	8.4	8.4
Petrol & Petrol Prod	49.0	51.2	54.2	58.4	57.0	63.8	63.8	62.4	58.4	60.0
Chem & Rel Prod	15.8	17.3	17.1	19.8	22.9	24.4	22.8	22.9	22.2	23.2
Crude Materials	10.6	11.6	13.1	12.1	11.5	12.2	11.4	14.4	14.8	13.9
Primary Manuf Goods	2.6	3.2	4.5	3.3	3.2	3.9	2.7	3.0	3.6	2.9
Food & Farm Prod	1.7	1.9	3.2	3.0	2.7	3.3	2.9	2.2	2.2	2.1
All Manuf Equip	0.4	0.4	1.6	0.7	0.7	1.0	0.5	0.4	0.3	0.5
Other	1.2	1.2	1.5	1.0	1.1	1.2	1.2	0.8	1.1	1.3

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>Total</b>	<b>114.9</b>	<b>117.6</b>	<b>118.0</b>	<b>118.0</b>	<b>118.1</b>	<b>113.6</b>	<b>109.6</b>	<b>113.8</b>	<b>112.2</b>	<b>107.7</b>
Coal	8.4	8.3	8.0	8.3	7.4	8.5	6.1	5.9	5.8	4.7
Petrol & Petrol Prod	58.9	58.1	55.7	54.2	54.2	52.2	50.4	53.3	54.5	52.9
Chem & Rel Prod	23.4	23.6	25.3	24.9	26.2	24.2	24.6	25.4	23.7	24.4
Crude Materials	16.0	19.6	18.3	20.1	21.4	20.1	21.3	20.4	20.4	18.2
Primary Manuf Goods	3.2	3.4	3.9	4.9	4.3	3.8	3.8	4.4	4.0	3.5
Food & Farm Prod	2.6	2.4	1.8	1.9	1.6	1.8	1.7	2.1	1.9	1.9
All Manuf Equip	0.8	0.8	4.1	3.0	2.0	1.9	1.1	1.3	1.0	1.3
Other	1.6	1.4	0.8	0.9	0.9	1.0	0.6	1.0	1.0	0.7

*Figure 3-15*  
**PRINCIPAL COMMODITY GROUPS CARRIED BY WATER, 2002**  
**FOR THE GULF INTRACOASTAL WATERWAY**  
(million short tons and percentage of short tons)



*Table 3-15: PRINCIPAL COMMODITIES IN WATERBORNE COMMERCE, 2001-2002*  
**FOR THE GULF INTRACOASTAL WATERWAY**  
(million short tons)

	2001	2002	% Change
<b>Total Commerce</b>	<b>112.2</b>	<b>107.7</b>	-4.0
Coal	5.8	4.7	-18.9
Petroleum & Petroleum Products	54.5	52.9	-2.9
Chemicals & Related Products	23.7	24.4	2.8
Crude Materials	20.4	18.2	-10.5
Primary Manufactured Goods	4.0	3.5	-12.0
Food & Farm Products	1.9	1.9	3.3
All Manuf Equip	1.0	1.3	27.5
Other	1.0	0.7	-23.5



Figure 3-16  
COLUMBIA RIVER, 1983-2002  
BY TYPE OF TRAFFIC  
(million short tons)

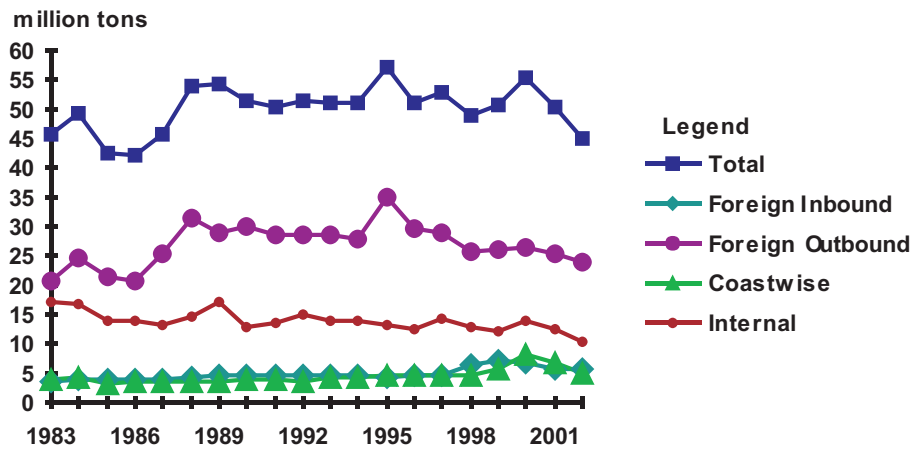


Table 3-16: COLUMBIA RIVER, 1983-2002  
BY TYPE OF TRAFFIC\*  
(million short tons)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
<b>Total</b>	<b>45.6</b>	<b>49.4</b>	<b>42.4</b>	<b>42.2</b>	<b>45.7</b>	<b>53.8</b>	<b>54.5</b>	<b>51.4</b>	<b>50.4</b>	<b>51.6</b>
Foreign										
Inbound	3.7	4.0	3.9	3.8	3.8	4.3	4.7	4.5	4.8	4.6
Outbound	20.7	24.5	21.3	20.7	25.3	31.3	29.1	30.0	28.4	28.5
Domestic										
Coastwise	4.1	4.3	3.2	3.6	3.4	3.5	3.5	3.9	3.8	3.6
Internal	17.1	16.6	14.0	14.1	13.2	14.8	17.2	13.0	13.5	14.9

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>Total</b>	<b>51.2</b>	<b>50.9</b>	<b>57.1</b>	<b>51.2</b>	<b>52.7</b>	<b>49.1</b>	<b>50.7</b>	<b>55.2</b>	<b>50.3</b>	<b>45.0</b>
Foreign										
Inbound	4.7	4.8	4.4	4.5	4.7	6.3	7.1	6.8	5.8	5.7
Outbound	28.5	27.9	35.1	29.5	28.9	25.6	26.0	26.4	25.4	23.8
Domestic										
Coastwise	4.2	4.3	4.5	4.8	4.8	4.5	5.7	8.2	6.8	5.0
Internal	13.8	13.9	13.1	12.4	14.3	12.7	12.0	13.8	12.4	10.5

\*Foreign Inbound includes Upbound Thru Traffic. Foreign Outbound includes Downbound Thru Traffic.



Figure 3-17  
 COLUMBIA RIVER, 1983-2002  
 BY COMMODITY GROUP  
 (million short tons)

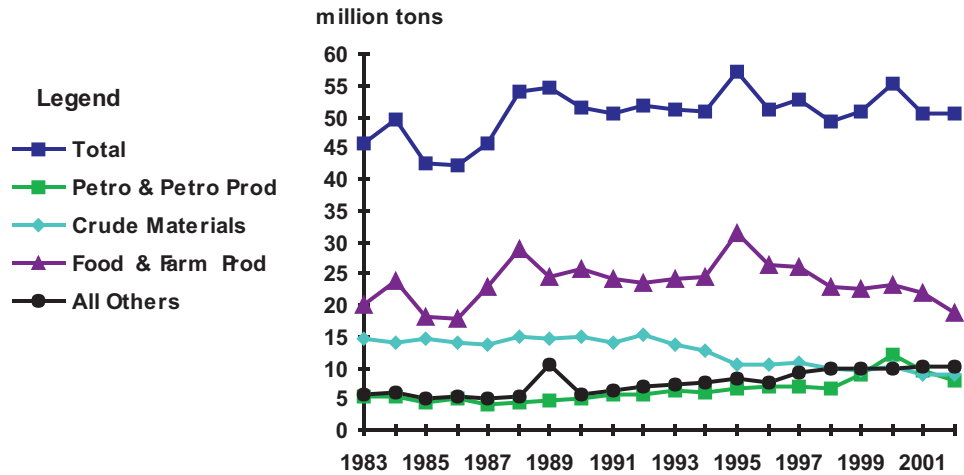


Table 3-17: COLUMBIA RIVER, 1983-2002  
 BY COMMODITY GROUP  
 (million short tons)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Total	45.6	49.4	42.4	42.2	45.7	53.8	54.5	51.4	50.4	51.6
Coal	0.2	0.2	0.2	0.4	0.5	0.5	0.5	0.0	0.3	0.0
Petro & Petro Prod	5.5	5.4	4.4	5.0	4.3	4.4	4.8	5.1	5.8	5.7
Chem & Rel Prod	1.4	1.7	1.9	1.9	2.1	2.0	2.3	2.7	3.1	3.7
Crude Materials	14.6	14.1	14.6	14.1	13.6	14.9	14.6	15.0	14.1	15.3
Primary Manuf Goods	2.1	2.3	2.3	2.2	1.9	2.1	2.1	2.3	2.3	2.5
Food & Farm Prod	19.9	23.9	18.2	17.8	22.8	29.0	24.4	25.7	24.2	23.6
All Manuf Equip	0.5	0.6	0.6	0.7	0.4	0.8	0.7	0.6	0.7	0.7
Other	1.5	1.1	0.2	0.0	0.1	0.0	5.0	0.0	0.0	0.2

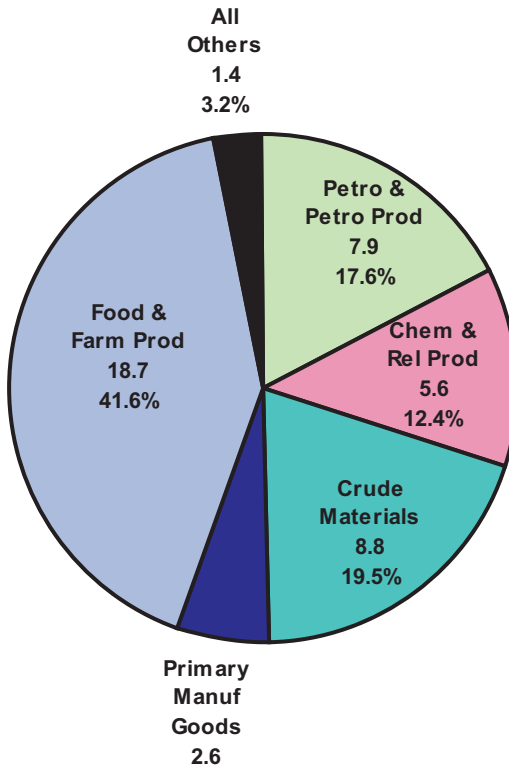
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Total	51.2	50.9	57.1	51.2	52.7	49.1	50.7	55.2	50.3	45.0
Coal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petro & Petro Prod	6.2	6.0	6.8	7.1	7.0	6.7	9.0	12.2	9.6	7.9
Chem & Rel Prod	4.0	4.1	4.4	3.9	4.9	5.5	5.5	5.8	5.8	5.6
Crude Materials	13.6	12.6	10.5	10.4	10.7	9.8	9.4	10.1	8.8	8.8
Primary Manuf Goods	2.5	2.8	2.9	2.6	2.9	2.9	3.1	2.6	3.0	2.6
Food & Farm Prod	24.0	24.4	31.6	26.2	25.9	22.8	22.4	23.2	21.7	18.7
All Manuf Equip	0.7	0.8	0.8	0.8	1.1	1.0	1.2	1.1	1.1	1.2
Other	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Table 3-18: PRINCIPAL COMMODITIES IN WATERBORNE COMMERCE, 2001-2002  
FOR THE COLUMBIA RIVER  
(million short tons)

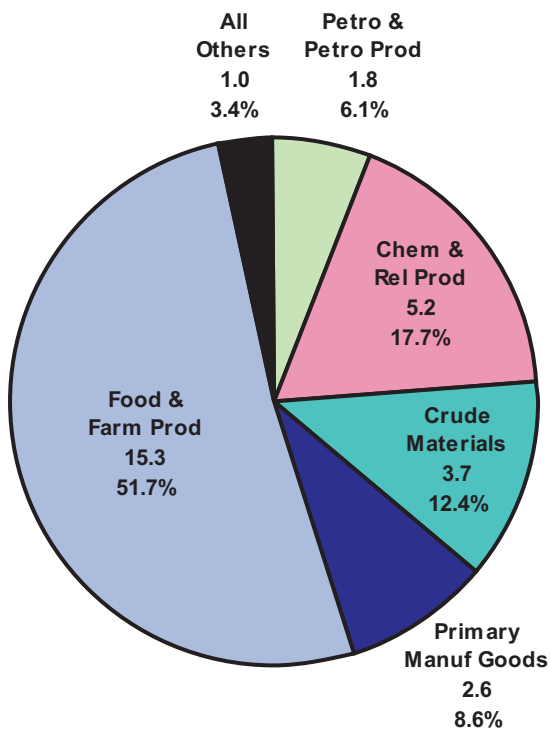
	2001	2002	%Change
<b>Total Commerce</b>	<b>50.3</b>	<b>45.0</b>	<b>-10.6</b>
Coal	0.0	0.0	-58.5
Petro & Petro Prod	9.6	7.9	-17.4
Chem & Rel Prod	5.8	5.6	-4.6
Crude Materials	8.8	8.8	-0.3
Primary Manuf Goods	3.0	2.6	-13.0
Food & Farm Prod	21.7	18.7	-13.8
All Manuf Equip	1.1	1.2	3.7
Other	0.2	0.2	2.6
<b>Foreign Commerce</b>	<b>31.2</b>	<b>29.5</b>	<b>-5.4</b>
Coal	0.0	0.0	-58.5
Petro & Petro Prod	1.7	1.8	7.0
Chem & Rel Prod	5.4	5.2	-3.0
Crude Materials	3.7	3.7	-0.6
Primary Manuf Goods	2.9	2.6	-12.9
Food & Farm Prod	16.6	15.3	-7.9
All Manuf Equip	0.9	1.0	4.4
Other	0.0	0.1	105.3
<b>Domestic Commerce</b>	<b>19.1</b>	<b>15.5</b>	<b>-18.9</b>
Coal	-	0.0	-
Petro & Petro Prod	7.9	6.1	-22.5
Chem & Rel Prod	0.4	0.3	-24.1
Crude Materials	5.1	5.1	-0.1
Primary Manuf Goods	0.1	0.1	-17.9
Food & Farm Prod	5.2	3.5	-32.8
All Manuf Equip	0.2	0.2	0.8
Other	0.2	0.2	-10.0

Figure 3-18  
 PRINCIPAL COMMODITY GROUPS CARRIED BY WATER, 2002  
 FOR THE COLUMBIA RIVER  
 (million short tons and percentage of short tons)

**Total Commerce**



**Foreign Commerce**



**Domestic Commerce**

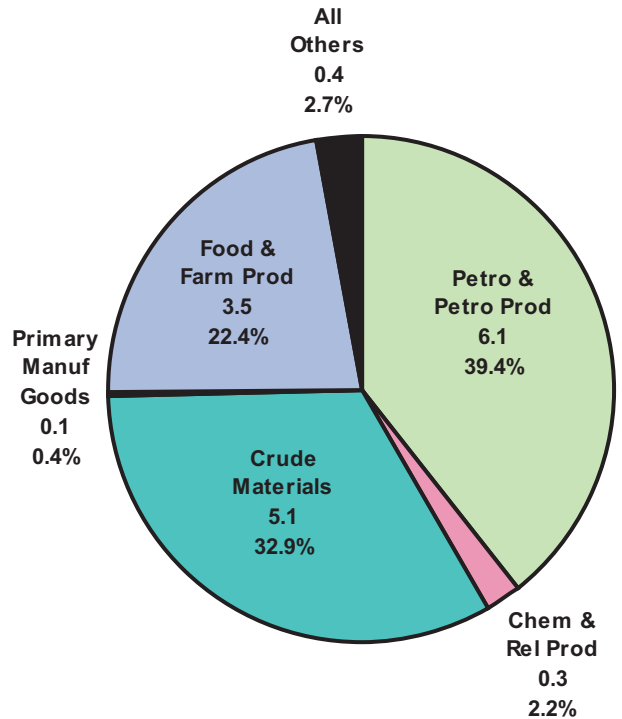


Figure 3-19  
SNAKE RIVER, 1983-2002  
BY COMMODITY GROUP  
(thousand short tons)

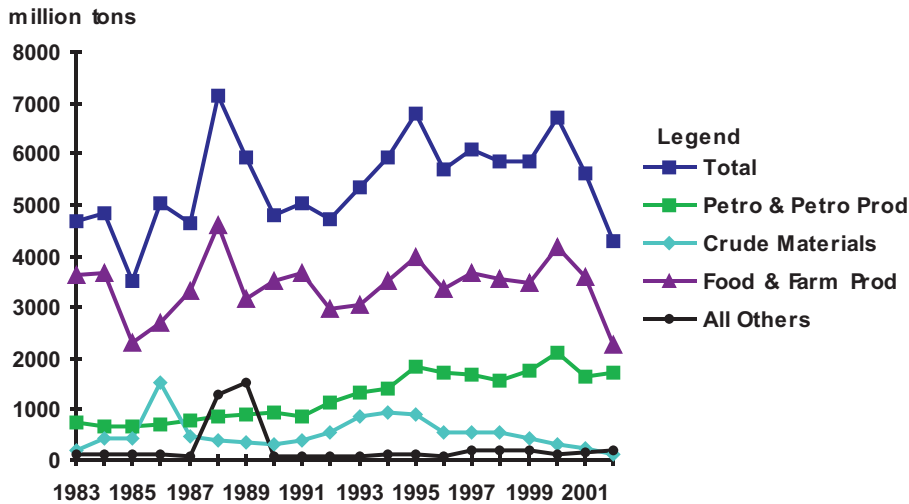
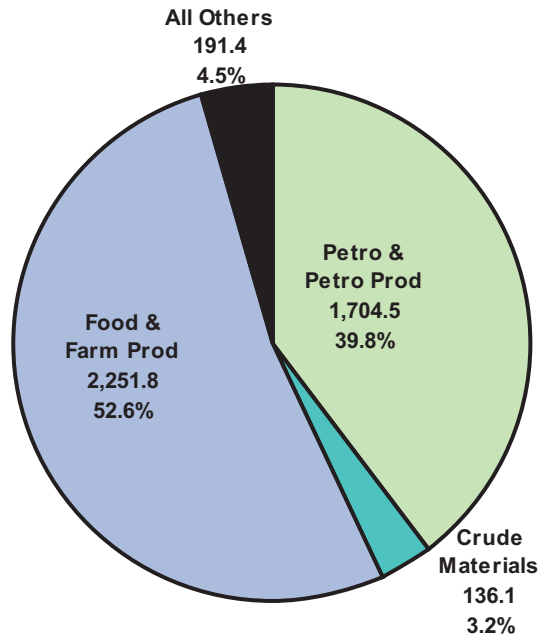


Table 3-19: SNAKE RIVER, 1983-2002  
BY COMMODITY GROUP  
(thousand short tons)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Total	<b>4,679.1</b>	<b>4,852.0</b>	<b>3,518.8</b>	<b>5,042.6</b>	<b>4,644.9</b>	<b>7,125.1</b>	<b>5,930.3</b>	<b>4,804.0</b>	<b>5,053.2</b>	<b>4,719.3</b>
Petro & Petro Prod	724.8	654.0	652.7	694.8	789.5	839.1	908.4	920.0	875.1	1,140.4
Chem & Rel Prod	25.7	26.3	27.2	45.2	36.2	22.9	33.1	14.8	41.3	35.4
Crude Materials	202.7	429.8	434.5	1,512.8	461.3	390.3	347.2	304.8	404.1	533.6
Primary Manuf Goods	85.2	71.7	74.4	45.9	45.6	52.2	45.3	53.8	45.0	43.2
Food & Farm Prod	3,625.3	3,653.5	2,316.8	2,704.4	3,301.3	4,601.1	3,148.8	3,503.2	3,682.4	2,961.4
All Manuf Equip	15.5	16.7	13.2	38.5	10.0	57.2	9.9	7.3	5.3	5.3
Waste & Scrap	-	-	-	0.9	1.0	1,162.2	1,437.5	-	-	-
Other	-	-	-	-	-	-	-	-	-	-

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Total	<b>5,339.1</b>	<b>5,929.1</b>	<b>6,803.9</b>	<b>5,707.4</b>	<b>6,102.5</b>	<b>5,840.0</b>	<b>5,836.5</b>	<b>6,707.1</b>	<b>5,638.7</b>	<b>4,283.8</b>
Petro & Petro Prod	1,328.9	1,391.3	1,847.6	1,708.8	1,683.2	1,556.0	1,739.0	2,120.5	1,652.3	1,704.5
Chem & Rel Prod	50.9	43.4	41.3	52.0	30.5	53.2	74.3	88.4	59.2	59.9
Crude Materials	858.6	925.9	878.9	548.5	540.2	556.2	444.7	312.5	241.4	136.0
Primary Manuf Goods	40.0	46.0	64.5	18.0	69.8	66.6	71.5	7.8	15.6	2.2
Food & Farm Prod	3,055.8	3,510.7	3,963.6	3,369.1	3,677.6	3,544.6	3,461.9	4,162.7	3,594.8	2,251.8
All Manuf Equip	4.9	11.8	8.0	10.8	101.3	63.5	45.1	15.2	75.3	129.3
Waste & Scrap	-	-	-	0.2	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-

*Figure 3-20*  
**PRINCIPAL COMMODITY GROUPS CARRIED BY WATER, 2002**  
**FOR THE SNAKE RIVER**  
 (thousand short tons and percentage of short tons)



*Table 3-20: PRINCIPAL COMMODITIES IN WATERBORNE COMMERCE, 2001-2002*  
**FOR THE SNAKE RIVER**  
 (thousand short tons)

	2001	2002	% Change
<b>Total Commerce</b>	<b>5,638.7</b>	<b>4,283.8</b>	<b>-24.0</b>
Petroleum & Petroleum Products	1,652.3	1,704.5	3.2
Chemicals & Related Products	59.2	59.9	1.2
Crude Materials	241.4	136.0	-43.6
Primary Manufactured Goods	15.6	2.2	-86.0
Food & Farm Products	3,594.8	2,251.8	-37.4
All Manufactured Equipment	75.3	129.3	71.7
Waste & Scrap	-	-	-

Table 3-21: DOMESTIC TRAFFIC FOR SELECTED U.S. INLAND WATERWAYS IN 2002  
(million short tons, billions of ton-miles\* and percent change from 2001)

Waterway	Length (miles)	Tons		Ton-Miles		Trip** Ton-Miles	
		2002	%	2002	%	2002	%
<b>Atlantic Coast</b>							
Atlantic Intracoastal Waterway, VA-FL	793	1.9	-26.1	0.1	-9.3	0.2	-24.8
Intracoastal Wtwy, Jacksonville to Miami, FL	349	0.5	-43.2	-	-27.9	-	-12.2
<b>Gulf Coast</b>							
Bayou Teche, LA	107	1.6	-9.3	0.1	-4.3	0.6	-1.7
Black Warrior and Tombigbee rivers, AL	449	19.0	0.5	3.5	9.0	6.6	0.3
Chocolate Bayou, TX	13	2.9	-14.0	-	-14.1	0.8	-8.5
Gulf Intracoastal Waterway, TX-FL	1,109	107.7	-4.0	17.4	-3.3	52.1	-6.0
GIWW: Morgan City-Port Allen Route, LA	64	20.8	-10.6	1.3	-10.6	19.6	-9.6
Petit Anse, Tigre, Carlin bayous, LA	16	2.2	-27.8	-	-30.8	2.6	29.8
Tennessee-Tombigbee Waterway, AL and MS	234	6.2	-8.1	1.2	-10.2	3.6	-12.4
<b>Mississippi River System</b>							
Allegheny River, PA	72	2.8	-4.6	-	-13.5	1.1	-18.6
Atchafalaya River, LA	121	10.7	-7.3	0.7	-7.0	7.2	-0.2
Big Sandy River, KY and WV	27	25.1	3.7	0.2	3.4	6.6	-11.9
Cumberland River, KY and TN	381	22.6	-2.5	2.6	7.2	9.7	-7.6
Green and Barren rivers, KY	109	10.4	33.9	0.7	43.2	5.5	42.3
Illinois Waterway, IL	357	43.0	-1.0	8.6	-1.1	43.7	-0.2
Kanawha River, WV	91	19.2	-13.2	1.3	-13.2	8.6	-18.5
McClellan-Kerr Arkansas R. Nav. Sys., AR/OK	462	11.9	6.2	2.5	4.8	6.9	4.6
Mississippi River Mpls, MN to Mouth of Passes	1,814	316.2	-0.1	182.3	1.3	237.6	0.2
Minneapolis, MN to Mouth of Missouri River	663	84.1	6.7	16.9	17.4	94.9	7.5
Mouth of Missouri R. to Mouth of Ohio R.	195	121.5	2.0	20.5	4.1	128.3	4.2
Mouth of Ohio River up to Baton Rouge, LA	720	198.3	-1.2	1219	-1.0	210.7	0.3
Baton Rouge up to New Orleans, LA***	130	222.4	1.1	17.4	-0.5	195.2	0.4
New Orleans, LA to Mouth of Passes***	106	114.8	-1.6	5.5	-2.4	66.7	-5.2
Missouri R. (MO, KS, NE & IA) to Sioux City, IA	732	8.3	-15.1	0.4	-27.6	1.1	-28.2
Monongahela River, PA and WV	129	38.2	0.4	1.4	6.2	9.8	27.0
Ohio River, PA, WV, OH, KY, IN, and IL	981	243.2	0.3	57.5	-2.1	128.3	-3.0
Ouachita and Black rivers, AR and LA	332	1.4	-11.5	0.2	-10.2	0.7	6.0
Red River, LA	212	3.7	0.6	0.4	26.1	2.5	9.5
Tennessee River, TN, KY, MS and AL	652	43.9	-8.3	6.7	2.8	25.2	-5.1
<b>Pacific Coast</b>							
Columbia River System, OR, WA, and ID***	596	16.5	-18.5	2.3	-23.3	1.8	-21.6
Columbia River and Willamette River below Vancouver, WA and Portland, OR***	113	15.9	-19.4	0.6	-27.4	1.8	-22.3
Vancouver, WA to The Dalles, OR	85	8.0	-18.4	0.6	-19.3	1.8	-22.2
The Dalles Dam to McNary Lock and Dam	100	7.3	-18.2	0.6	-21.1	1.8	-21.5
Above McNary L & D to Kennewick, WA	39	5.1	-24.5	0.2	-23.4	1.4	-25.4
Snake River (WA and ID) to Lewiston, ID	141	4.3	-24.0	0.3	-26.5	1.3	-25.2
Willamette River above Portland, OR	118	1.6	1.4	-	-40.3	0.1	19.5

\* A dash denotes ton-miles of less than 50 million.

\*\* Internal and intraport tons times total distance from origin to destination.

\*\*\* Includes coastwise entrance channel miles for tons and ton-miles but not for trip ton-miles.

## Section 4

### States





Table 4-1: WATERBORNE COMMERCE BY STATES, 2002  
(thousand short tons)

State	Grand Total*	Shipping		Receiving		Intrastate
		Domestic	Foreign	Domestic	Foreign	
<b>Total</b>	<b>2,340,292</b>	<b>722,714</b>	<b>384,350</b>	<b>722,714</b>	<b>934,941</b>	<b>298,287</b>
Alabama	66,888	10,354	8,492	18,642	15,662	13,738
Alaska	67,479	52,434	7,541	2,927	774	3,803
Arkansas	13,166	5,162	-	5,177	-	2,827
California	190,093	5,316	39,530	28,512	104,633	12,101
Connecticut	17,610	862	310	10,263	4,798	1,377
Delaware	38,603	14,647	519	1,920	18,326	3,191
District of Columbia	557	-	-	557	-	-
Florida	122,516	10,853	17,037	57,147	34,878	2,601
Georgia	23,258	480	8,812	1,227	12,383	356
Guam	245	15	-	230	-	-
Hawaii	22,637	787	685	5,394	6,591	9,180
Idaho	999	675	-	45	-	279
Illinois	120,349	90,575	566	18,435	1,093	9,679
Indiana	71,522	13,847	499	50,224	2,419	4,532
Iowa	16,745	12,041	-	4,038	-	667
Kansas	1,726	34	-	1,502	-	190
Kentucky	100,082	53,314	-	33,394	-	13,374
Louisiana	484,927	102,013	104,854	127,801	110,846	39,413
Maine	29,140	141	464	2,544	25,817	173
Maryland	47,289	6,465	7,531	10,737	18,576	3,980
Massachusetts	26,117	752	785	8,391	14,660	1,529
Michigan	73,778	23,122	6,243	20,715	8,201	15,497
Minnesota	47,834	33,003	4,885	6,897	543	2,507
Mississippi	47,735	14,584	4,058	9,356	18,876	860
Missouri	30,043	15,615	-	6,388	-	8,040
Nebraska	219	95	-	124	-	-
New Hampshire	4,108	-	79	631	3,398	-
New Jersey	110,120	27,551	7,974	18,099	52,138	4,358
New York	88,059	15,722	3,777	21,733	32,307	14,520
North Carolina	9,674	114	1,414	2,933	3,596	1,618
Ohio	119,362	16,880	16,186	65,214	6,593	14,490
Oklahoma	4,440	2,293	-	2,138	-	9
Oregon	31,681	2,984	13,156	7,498	4,226	3,818
Other	61,100	3,024	-	6,600	51,475	1
Pacific Islands	379	300	-	79	-	-
Pennsylvania	115,316	19,322	585	35,444	39,569	20,396
Puerto Rico	24,274	1,226	1,148	8,074	12,710	1,115
Rhode Island	8,437	319	397	5,012	2,698	11
South Carolina	26,508	388	5,573	2,908	14,889	2,749
Tennessee	46,174	7,805	-	34,640	-	3,729
Texas	442,251	43,301	64,225	19,881	260,917	53,926
Trans-Shipments**	103	46	-	58	-	-
Vermont	-	-	-	-	-	-
Virgin Islands	38,493	16,312	1,515	-	20,276	390
Virginia	47,494	11,175	16,901	4,095	11,281	4,042
Washington	100,894	11,774	28,933	29,225	18,269	12,692
West Virginia	80,120	51,171	-	18,491	-	10,458
Wisconsin	42,464	23,822	9,673	7,375	1,523	70

\* 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 BY STATES, 2002, RANKED BY TOTAL TONS  
(thousand short tons)

State	Grand Total*	Shipping		Receiving		Intrastate
		Domestic	Foreign	Domestic	Foreign	
<b>Total</b>	<b>2,340,292</b>	<b>722,714</b>	<b>384,350</b>	<b>722,714</b>	<b>934,941</b>	<b>298,287</b>
Louisiana	484,927	102,013	104,854	127,801	110,846	39,413
Texas	442,251	43,301	64,225	19,881	260,917	53,926
California	190,093	5,316	39,530	28,512	104,633	12,101
Florida	122,516	10,853	17,037	57,147	34,878	2,601
Illinois	120,349	90,575	566	18,435	1,093	9,679
Ohio	119,362	16,880	16,186	65,214	6,593	14,490
Pennsylvania	115,316	19,322	585	35,444	39,569	20,396
New Jersey	110,120	27,551	7,974	18,099	52,138	4,358
Washington	100,894	11,774	28,933	29,225	18,269	12,692
Kentucky	100,082	53,314	-	33,394	-	13,374
New York	88,059	15,722	3,777	21,733	32,307	14,520
West Virginia	80,120	51,171	-	18,491	-	10,458
Michigan	73,778	23,122	6,243	20,715	8,201	15,497
Indiana	71,522	13,847	499	50,224	2,419	4,532
Alaska	67,479	52,434	7,541	2,927	774	3,803
Alabama	66,888	10,354	8,492	18,642	15,662	13,738
Other	61,100	3,024	-	6,600	51,475	1
Minnesota	47,834	33,003	4,885	6,897	543	2,507
Mississippi	47,735	14,584	4,058	9,356	18,876	860
Virginia	47,494	11,175	16,901	4,095	11,281	4,042
Maryland	47,289	6,465	7,531	10,737	18,576	3,980
Tennessee	46,174	7,805	-	34,640	-	3,729
Wisconsin	42,464	23,822	9,673	7,375	1,523	70
Delaware	38,603	14,647	519	1,920	18,326	3,191
Virgin Islands	38,493	16,312	1,515	-	20,276	390
Oregon	31,681	2,984	13,156	7,498	4,226	3,818
Missouri	30,043	15,615	-	6,388	-	8,040
Maine	29,140	141	464	2,544	25,817	173
South Carolina	26,508	388	5,573	2,908	14,889	2,749
Massachusetts	26,117	752	785	8,391	14,660	1,529
Puerto Rico	24,274	1,226	1,148	8,074	12,710	1,115
Georgia	23,258	480	8,812	1,227	12,383	356
Hawaii	22,637	787	685	5,394	6,591	9,180
Connecticut	17,610	862	310	10,263	4,798	1,377
Iowa	16,745	12,041	-	4,038	-	667
Arkansas	13,166	5,162	-	5,177	-	2,827
North Carolina	9,674	114	1,414	2,933	3,596	1,618
Rhode Island	8,437	319	397	5,012	2,698	11
Oklahoma	4,440	2,293	-	2,138	-	9
New Hampshire	4,108	-	79	631	3,398	-
Kansas	1,726	34	-	1,502	-	190
Idaho	999	675	-	45	-	279
District of Columbia	557	-	-	557	-	-
Pacific Islands	379	300	-	79	-	-
Guam	245	15	-	230	-	-
Nebraska	219	95	-	124	-	-
Trans-Shipments**	103	46	-	58	-	-
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 Amuelles, Panama and Hondo Platform-Pacific Ocean.

Table 4-3: U.S. COMMERCIAL LANDINGS OF FISH, BY STATES, 2001 AND 2002\*  
(thousand pounds)

State	2001	2002	% Change	Year	Record Landing
<b>Total</b>	<b>9,491,858</b>	<b>9,397,164</b>	-1.0	-	-
Alabama	24,740	23,380	-5.5	1973	36,744
Alaska	5,036,338	5,066,263	0.6	1993	5,905,638
California	526,005	498,754	-5.2	1936	1,760,193
Connecticut	18,687	16,177	-13.4	1930	88,012
Delaware	7,123	5,857	-17.8	1953	367,500
Florida	115,235	111,196	-3.5	1954	264,564
Georgia	9,036	9,563	5.8	1927	47,607
Hawaii	23,870	23,841	-0.1	1999	36,907
Illinois	16	-	-	-	**
Indiana	-	-	-	-	**
Louisiana	1,191,460	1,308,531	9.8	1984	1,931,027
Maine	239,868	197,057	-17.8	1950	356,266
Maryland	55,536	53,185	-4.2	1890	141,607
Massachusetts	242,066	243,824	0.7	1948	649,696
Michigan	10,322	9,459	-8.4	1930	35,580
Minnesota	501	449	-10.4	-	**
Mississippi	213,889	217,053	1.5	1984	476,997
New Hampshire	18,584	23,201	24.8	-	**
New Jersey	168,430	162,175	-3.7	1956	540,060
New York	42,493	38,712	-8.9	1880	335,000
North Carolina	139,277	159,557	14.6	1981	432,006
Ohio	3,535	3,427	-3.1	1936	31,083
Oregon	234,097	211,183	-9.8	1997	273,503
Pennsylvania	25	15	-40.0	-	**
Rhode Island	115,957	103,656	-10.6	1957	142,080
South Carolina	14,111	13,458	-4.6	1965	26,611
Texas	97,370	88,201	-9.4	1960	237,684
Virginia	561,708	442,490	-21.2	1990	786,794
Washington	377,231	362,049	-4.0	1994	527,804
Wisconsin	4,348	4,451	2.4	-	**

Source: Personal communication from the National Marine Fisheries Service, Fisheries Statistics and Economics Division, Silver Spring, MD

\* 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, 2002  
(short tons)

Rank	Port_Name	Grand Total	Foreign			Domestic
			Total	Inbound	Outbound	
66	Albany, NY	6,835,609	1,304,196	713,070	591,126	5,531,413
97	Alpena, MI	3,217,718	196,260	53,473	142,787	3,021,458
42	Anacortes, WA	15,362,650	2,571,964	1,711,572	860,392	12,790,686
102	Anchorage, AK	2,983,137	664,484	251,203	413,281	2,318,653
55	Ashtabula, OH	9,837,562	5,368,180	1,065,983	4,302,197	4,469,382
19	Baltimore, MD	38,822,710	23,634,100	18,256,065	5,378,035	15,188,610
72	Barbers Point, Oahu, HI	5,990,186	2,419,979	2,320,877	99,102	3,570,207
9	Baton Rouge, LA	60,582,710	20,937,627	16,808,194	4,129,433	39,645,083
4	Beaumont, TX	85,910,947	67,729,255	62,625,566	5,103,689	18,181,692
112	Biloxi, MS	2,329,524	-	-	-	2,329,524
36	Boston, MA	20,353,642	13,243,683	12,471,484	772,199	7,109,959
80	Bridgeport, CT	4,606,912	1,454,067	1,453,795	272	3,152,845
76	Brownsville, TX	4,739,064	3,159,940	2,751,398	408,542	1,579,124
106	Brunswick, GA	2,577,065	2,466,882	1,477,562	989,320	110,183
125	Buffalo, NY	1,685,873	441,434	441,434	-	1,244,439
140	Buffington, IN	1,250,645	-	-	-	1,250,645
60	Burns Waterway Harbor, IN	8,620,968	1,985,310	1,696,401	288,909	6,635,658
61	Calcite, MI	8,575,416	1,401,956	103,651	1,298,305	7,173,460
71	Camden-Gloucester, NJ	6,142,468	4,009,297	3,739,661	269,636	2,133,171
29	Charleston, SC	24,993,443	18,998,496	13,461,079	5,537,417	5,994,947
137	Charlevoix, MI	1,343,174	123,965	14,865	109,100	1,219,209
105	Chattanooga, TN	2,769,683	-	-	-	2,769,683
120	Chester, PA	1,817,672	1,531,521	1,287,685	243,836	286,151
35	Chicago, IL	20,402,907	1,625,411	1,059,317	566,094	18,777,496
45	Cincinnati, OH	13,006,858	-	-	-	13,006,858
48	Cleveland, OH	11,411,765	2,327,800	2,270,800	57,000	9,083,965
52	Conneaut, OH	10,474,064	5,093,622	758,906	4,334,716	5,380,442
124	Coos Bay, OR	1,706,821	1,368,151	151,575	1,216,576	338,670
7	Corpus Christi, TX	72,000,304	50,580,210	41,714,363	8,865,847	21,420,094
39	Detroit, MI	17,305,875	4,408,713	4,201,545	207,168	12,897,162
142	Drummond Island, MI	1,220,901	237,229	10,929	226,300	983,672
18	Duluth-Superior, MN and WI	44,160,834	14,461,004	624,222	13,836,782	29,699,830
135	Erie, PA	1,361,686	155,770	153,459	2,311	1,205,916
79	Escanaba, MI	4,645,086	42,639	42,639	-	4,602,447
101	Everett, WA	3,009,175	504,174	197,676	306,498	2,505,001
113	Fairport Harbor, OH	2,325,662	523,743	154,452	369,291	1,801,919
95	Fall River, MA	3,391,888	949,503	949,503	-	2,442,385
24	Freeport, TX	27,163,872	22,084,240	19,778,106	2,306,134	5,079,632
58	Galveston, TX	9,135,823	5,248,453	1,215,501	4,032,952	3,887,370
57	Gary, IN	9,482,026	419,998	251,210	168,788	9,062,028
133	Georgetown, SC	1,410,994	1,316,669	1,281,189	35,480	94,325
127	Grays Harbor, WA	1,665,756	916,806	479,594	437,212	748,950
118	Green Bay, WI	2,078,220	302,018	299,832	2,186	1,776,202
104	Greenville, MS	2,781,813	-	-	-	2,781,813
114	Gulfport, MS	2,290,453	2,157,479	1,255,667	901,812	132,974
111	Guntersville, AL	2,417,234	-	-	-	2,417,234
121	Helena, AR	1,778,121	-	-	-	1,778,121
141	Hempstead, NY	1,236,370	-	-	-	1,236,370
123	Hilo, HI	1,765,300	-	-	-	1,765,300
40	Honolulu, HI	16,635,700	4,855,144	4,269,146	585,998	11,780,556

Table 5-1: SELECTED U.S. PORTS BY PORT NAME, 2002 - continued  
(short tons)

Rank	Port_Name	Grand Total	Total	Foreign Inbound	Outbound	Domestic
145	Hopewell, VA	1,108,381	333,499	16,844	316,655	774,882
2	Houston, TX	177,560,719	115,188,083	80,026,921	35,161,162	62,372,636
6	Huntington - Tristate	81,063,663	-	-	-	81,063,663
44	Indiana Harbor, IN	13,839,001	513,352	471,753	41,599	13,325,649
38	Jacksonville, FL	17,905,831	9,676,890	8,688,528	988,362	8,228,941
94	Kahului, Maui, HI	3,458,498	-	-	-	3,458,498
70	Kalama, WA	6,386,161	5,582,466	341,862	5,240,604	803,695
93	Kansas City, MO	3,574,749	-	-	-	3,574,749
128	Kawaihae Harbor, HI	1,644,703	-	-	-	1,644,703
139	Kelleys Island, OH	1,289,245	-	-	-	1,289,245
99	Kivilina, AK	3,126,661	1,511,444	-	1,511,444	1,615,217
16	Lake Charles, LA	47,522,085	27,431,168	23,105,186	4,325,982	20,090,917
8	Long Beach, CA	67,872,469	52,291,988	37,907,049	14,384,939	15,580,481
78	Longview, WA	4,705,771	3,878,094	587,468	3,290,626	827,677
67	Lorain, OH	6,672,214	354,390	354,390	-	6,317,824
12	Los Angeles, CA	52,216,048	45,407,788	31,627,547	13,780,241	6,808,260
63	Louisville, KY	7,893,743	-	-	-	7,893,743
130	Manistee, MI	1,457,338	1,028,053	154,062	873,991	429,285
96	Marblehead, OH	3,384,360	263,215	4,312	258,903	3,121,145
28	Marcus Hook, PA	25,207,395	15,580,672	15,561,662	19,010	9,626,723
91	Marine City, MI	3,712,646	22,470	22,470	-	3,690,176
138	Marysville, MI	1,323,310	390,177	390,177	-	933,133
56	Matagorda Ship Channel, TX	9,590,150	6,677,931	4,640,338	2,037,593	2,912,219
41	Memphis, TN	16,400,555	-	-	-	16,400,555
59	Miami, FL	8,927,481	7,705,466	4,462,773	3,242,693	1,222,015
100	Milwaukee, WI	3,126,642	1,419,103	885,579	533,524	1,707,539
122	Minneapolis, MN	1,769,655	-	-	-	1,769,655
17	Mobile, AL	46,021,599	24,150,351	15,661,508	8,488,843	21,871,248
149	Monroe, MI	1,008,011	91,805	91,805	-	916,206
117	Morehead City, NC	2,096,824	1,299,007	770,343	528,664	797,817
90	Mount Vernon, IN	3,834,866	-	-	-	3,834,866
115	Muskegon, MI	2,187,003	263,702	263,702	-	1,923,301
86	Nashville, TN	4,224,393	-	-	-	4,224,393
129	Nawiliwili, Kauai, HI	1,618,567	-	-	-	1,618,567
150	New Bedford, MA	952,703	380,371	380,371	-	572,332
53	New Castle, DE	10,386,529	3,170,876	3,169,989	887	7,215,653
54	New Haven, CT	10,142,492	3,590,344	3,280,389	309,955	6,552,148
5	New Orleans, LA	85,000,428	51,762,304	21,926,081	29,836,223	33,238,124
3	New York, NY and NJ	134,504,511	69,571,858	59,419,046	10,152,812	64,932,653
49	Newport News, VA	11,300,962	5,108,246	1,142,937	3,965,309	6,192,716
65	Nikishka, AK	7,235,098	3,537,496	224,776	3,312,720	3,697,602
23	Norfolk Harbor, VA	27,901,354	21,072,873	8,704,284	12,368,589	6,828,481
46	Oakland, CA	12,454,506	9,459,601	4,020,827	5,438,774	2,994,905
131	Olympia, WA	1,440,439	116,241	26,174	90,067	1,324,198
88	Palm Beach, FL	4,022,089	1,778,633	661,309	1,117,324	2,243,456
109	Panama City, FL	2,477,772	764,930	489,500	275,430	1,712,842
22	Pascagoula, MS	31,857,678	20,486,427	17,496,585	2,989,842	11,371,251
27	Paulsboro, NJ	26,382,576	18,098,202	17,775,692	322,510	8,284,374
103	Penn Manor, PA	2,847,590	2,741,222	2,728,537	12,685	106,368
132	Pensacola, FL	1,422,852	145,183	134,154	11,029	1,277,669



Table 5-1: SELECTED U.S. PORTS BY PORT NAME, 2002 continued  
(short tons)

Rank	Port_Name	Grand Total	Total	Foreign Inbound	Outbound	Domestic
20	Philadelphia, PA	34,100,667	20,380,733	20,073,391	307,342	13,719,934
13	Pittsburgh, PA	52,050,661	-	-	-	52,050,661
10	Plaquemines, LA, Port of	59,110,736	23,283,864	13,725,168	9,558,696	35,826,872
92	Ponce, PR	3,712,351	3,646,556	3,454,706	191,850	65,795
126	Port Angeles, WA	1,673,985	296,293	188,784	107,509	1,377,692
30	Port Arthur, TX	22,675,808	15,217,791	11,687,188	3,530,603	7,458,017
89	Port Canaveral, FL	3,981,134	2,832,273	2,580,007	252,266	1,148,861
98	Port Dolomite, MI	3,146,799	414,974	-	414,974	2,731,825
32	Port Everglades, FL	21,279,754	8,697,330	6,707,601	1,989,729	12,582,424
144	Port Hueneme, CA	1,152,114	1,097,635	986,582	111,053	54,479
74	Port Inland, MI	5,563,353	554,949	22,839	532,110	5,008,404
107	Port Jefferson, NY	2,505,338	-	-	-	2,505,338
85	Port Manatee, FL	4,232,687	3,192,071	2,618,735	573,336	1,040,616
25	Portland, ME	27,131,856	25,145,023	24,970,592	174,431	1,986,833
26	Portland, OR	26,635,044	15,431,108	4,065,740	11,365,368	11,203,936
87	Portsmouth, NH	4,108,430	3,477,095	3,397,999	79,096	631,335
51	Presque Isle, MI	10,592,397	1,957,276	102,730	1,854,546	8,635,121
62	Providence, RI	8,244,140	2,949,337	2,552,434	396,903	5,294,803
31	Richmond, CA	21,900,717	10,312,884	8,691,722	1,621,162	11,587,833
134	Richmond, VA	1,363,424	487,158	241,409	245,749	876,266
143	Sabine Pass, TX	1,214,323	80,394	80,229	165	1,133,929
108	San Diego, CA	2,479,852	1,863,362	1,731,857	131,505	616,490
119	San Francisco, CA	2,005,723	1,165,453	1,069,352	96,101	840,270
47	San Juan, PR	12,378,301	5,307,709	4,884,795	422,914	7,070,592
83	Sandusky, OH	4,455,370	3,259,112	167,259	3,091,853	1,196,258
33	Savannah, GA	20,663,806	18,728,101	10,905,004	7,823,097	1,935,705
146	Searsport, ME	1,039,705	763,596	763,596	-	276,109
37	Seattle, WA	19,591,009	13,470,473	7,434,619	6,035,854	6,120,536
75	Silver Bay, MN	4,920,698	94,840	-	94,840	4,825,858
1	South Louisiana, LA, Port of	216,396,497	91,488,430	34,577,409	56,911,021	124,908,067
81	St. Clair, MI	4,505,575	27,697	27,697	-	4,477,878
21	St. Louis, MO and IL	32,601,491	-	-	-	32,601,491
73	St. Paul, MN	5,617,187	-	-	-	5,617,187
147	Stamford, CT	1,010,092	-	-	-	1,010,092
110	Stockton, CA	2,428,203	2,359,085	1,536,950	822,135	69,118
64	Stoneport, MI	7,454,544	204,443	106,447	97,996	7,250,101
34	Tacoma, WA	20,587,109	13,170,226	4,993,915	8,176,311	7,416,883
15	Tampa, FL	48,384,970	16,569,790	8,343,457	8,226,333	31,815,180
11	Texas City, TX	55,232,906	39,170,839	36,397,436	2,773,403	16,062,067
50	Toledo, OH	11,114,895	5,562,106	1,790,496	3,771,610	5,552,789
148	Trenton, NJ	1,008,107	-	-	-	1,008,107
116	Tulsa, Port of Catoosa, OK	2,097,187	-	-	-	2,097,187
43	Two Harbors, MN	14,895,295	90,975	-	90,975	14,804,320
14	Valdez, AK	50,513,074	4,476	91	4,385	50,508,598
68	Vancouver, WA	6,610,345	4,577,436	710,957	3,866,479	2,032,909
84	Vicksburg, MS	4,236,989	-	-	-	4,236,989
77	Victoria, TX	4,734,456	-	-	-	4,734,456
136	Weedon Island, FL	1,353,692	-	-	-	1,353,692
82	Wilmington, DE	4,483,182	3,496,075	2,977,767	518,308	987,107
69	Wilmington, NC	6,504,177	3,110,823	2,232,622	878,201	3,393,354

Table 5-2: SELECTED U.S. PORTS BY PORT NAME, 2002, RANKED BY TOTAL TONS  
(short tons)

Rank	Port_Name	Grand Total	Foreign			Domestic
			Total	Inbound	Outbound	
1	South Louisiana, LA, Port of	216,396,497	91,488,430	34,577,409	56,911,021	124,908,067
2	Houston, TX	177,560,719	115,188,083	80,026,921	35,161,162	62,372,636
3	New York, NY and NJ	134,504,511	69,571,858	59,419,046	10,152,812	64,932,653
4	Beaumont, TX	85,910,947	67,729,255	62,625,566	5,103,689	18,181,692
5	New Orleans, LA	85,000,428	51,762,304	21,926,081	29,836,223	33,238,124
6	Huntington - Tristate	81,063,663	-	-	-	81,063,663
7	Corpus Christi, TX	72,000,304	50,580,210	41,714,363	8,865,847	21,420,094
8	Long Beach, CA	67,872,469	52,291,988	37,907,049	14,384,939	15,580,481
9	Baton Rouge, LA	60,582,710	20,937,627	16,808,194	4,129,433	39,645,083
10	Plaquemines, LA, Port of	59,110,736	23,283,864	13,725,168	9,558,696	35,826,872
11	Texas City, TX	55,232,906	39,170,839	36,397,436	2,773,403	16,062,067
12	Los Angeles, CA	52,216,048	45,407,788	31,627,547	13,780,241	6,808,260
13	Pittsburgh, PA	52,050,661	-	-	-	52,050,661
14	Valdez, AK	50,513,074	4,476	91	4,385	50,508,598
15	Tampa, FL	48,384,970	16,569,790	8,343,457	8,226,333	31,815,180
16	Lake Charles, LA	47,522,085	27,431,168	23,105,186	4,325,982	20,090,917
17	Mobile, AL	46,021,599	24,150,351	15,661,508	8,488,843	21,871,248
18	Duluth-Superior, MN and WI	44,160,834	14,461,004	624,222	13,836,782	29,699,830
19	Baltimore, MD	38,822,710	23,634,100	18,256,065	5,378,035	15,188,610
20	Philadelphia, PA	34,100,667	20,380,733	20,073,391	307,342	13,719,934
21	St. Louis, MO and IL	32,601,491	-	-	-	32,601,491
22	Pascagoula, MS	31,857,678	20,486,427	17,496,585	2,989,842	11,371,251
23	Norfolk Harbor, VA	27,901,354	21,072,873	8,704,284	12,368,589	6,828,481
24	Freeport, TX	27,163,872	22,084,240	19,778,106	2,306,134	5,079,632
25	Portland, ME	27,131,856	25,145,023	24,970,592	174,431	1,986,833
26	Portland, OR	26,635,044	15,431,108	4,065,740	11,365,368	11,203,936
27	Paulsboro, NJ	26,382,576	18,098,202	17,775,692	322,510	8,284,374
28	Marcus Hook, PA	25,207,395	15,580,672	15,561,662	19,010	9,626,723
29	Charleston, SC	24,993,443	18,998,496	13,461,079	5,537,417	5,994,947
30	Port Arthur, TX	22,675,808	15,217,791	11,687,188	3,530,603	7,458,017
31	Richmond, CA	21,900,717	10,312,884	8,691,722	1,621,162	11,587,833
32	Port Everglades, FL	21,279,754	8,697,330	6,707,601	1,989,729	12,582,424
33	Savannah, GA	20,663,806	18,728,101	10,905,004	7,823,097	1,935,705
34	Tacoma, WA	20,587,109	13,170,226	4,993,915	8,176,311	7,416,883
35	Chicago, IL	20,402,907	1,625,411	1,059,317	566,094	18,777,496
36	Boston, MA	20,353,642	13,243,683	12,471,484	772,199	7,109,959
37	Seattle, WA	19,591,009	13,470,473	7,434,619	6,035,854	6,120,536
38	Jacksonville, FL	17,905,831	9,676,890	8,688,528	988,362	8,228,941
39	Detroit, MI	17,305,875	4,408,713	4,201,545	207,168	12,897,162
40	Honolulu, HI	16,635,700	4,855,144	4,269,146	585,998	11,780,556
41	Memphis, TN	16,400,555	-	-	-	16,400,555
42	Anacortes, WA	15,362,650	2,571,964	1,711,572	860,392	12,790,686
43	Two Harbors, MN	14,895,295	90,975	-	90,975	14,804,320
44	Indiana Harbor, IN	13,839,001	513,352	471,753	41,599	13,325,649
45	Cincinnati, OH	13,006,858	-	-	-	13,006,858
46	Oakland, CA	12,454,506	9,459,601	4,020,827	5,438,774	2,994,905
47	San Juan, PR	12,378,301	5,307,709	4,884,795	422,914	7,070,592
48	Cleveland, OH	11,411,765	2,327,800	2,270,800	57,000	9,083,965
49	Newport News, VA	11,300,962	5,108,246	1,142,937	3,965,309	6,192,716
50	Toledo, OH	11,114,895	5,562,106	1,790,496	3,771,610	5,552,789

Table 5-2: SELECTED U.S. PORTS BY PORT NAME, 2002, RANKED BY TOTAL TONS - continued  
(short tons)

Rank	Port_Name	Grand Total	Foreign			Domestic
			Total	Inbound	Outbound	
51	Presque Isle, MI	10,592,397	1,957,276	102,730	1,854,546	8,635,121
52	Conneaut, OH	10,474,064	5,093,622	758,906	4,334,716	5,380,442
53	New Castle, DE	10,386,529	3,170,876	3,169,989	887	7,215,653
54	New Haven, CT	10,142,492	3,590,344	3,280,389	309,955	6,552,148
55	Ashtabula, OH	9,837,562	5,368,180	1,065,983	4,302,197	4,469,382
56	Matagorda Ship Channel, TX	9,590,150	6,677,931	4,640,338	2,037,593	2,912,219
57	Gary, IN	9,482,026	419,998	251,210	168,788	9,062,028
58	Galveston, TX	9,135,823	5,248,453	1,215,501	4,032,952	3,887,370
59	Miami, FL	8,927,481	7,705,466	4,462,773	3,242,693	1,222,015
60	Burns Waterway Harbor, IN	8,620,968	1,985,310	1,696,401	288,909	6,635,658
61	Calcite, MI	8,575,416	1,401,956	103,651	1,298,305	7,173,460
62	Providence, RI	8,244,140	2,949,337	2,552,434	396,903	5,294,803
63	Louisville, KY	7,893,743	-	-	-	7,893,743
64	Stoneport, MI	7,454,544	204,443	106,447	97,996	7,250,101
65	Nikishka, AK	7,235,098	3,537,496	224,776	3,312,720	3,697,602
66	Albany, NY	6,835,609	1,304,196	713,070	591,126	5,531,413
67	Lorain, OH	6,672,214	354,390	354,390	-	6,317,824
68	Vancouver, WA	6,610,345	4,577,436	710,957	3,866,479	2,032,909
69	Wilmington, NC	6,504,177	3,110,823	2,232,622	878,201	3,393,354
70	Kalama, WA	6,386,161	5,582,466	341,862	5,240,604	803,695
71	Camden-Gloucester, NJ	6,142,468	4,009,297	3,739,661	269,636	2,133,171
72	Barbers Point, Oahu, HI	5,990,186	2,419,979	2,320,877	99,102	3,570,207
73	St. Paul, MN	5,617,187	-	-	-	5,617,187
74	Port Inland, MI	5,563,353	554,949	22,839	532,110	5,008,404
75	Silver Bay, MN	4,920,698	94,840	-	94,840	4,825,858
76	Brownsville, TX	4,739,064	3,159,940	2,751,398	408,542	1,579,124
77	Victoria, TX	4,734,456	-	-	-	4,734,456
78	Longview, WA	4,705,771	3,878,094	587,468	3,290,626	827,677
79	Escanaba, MI	4,645,086	42,639	42,639	-	4,602,447
80	Bridgeport, CT	4,606,912	1,454,067	1,453,795	272	3,152,845
81	St. Clair, MI	4,505,575	27,697	27,697	-	4,477,878
82	Wilmington, DE	4,483,182	3,496,075	2,977,767	518,308	987,107
83	Sandusky, OH	4,455,370	3,259,112	167,259	3,091,853	1,196,258
84	Vicksburg, MS	4,236,989	-	-	-	4,236,989
85	Port Manatee, FL	4,232,687	3,192,071	2,618,735	573,336	1,040,616
86	Nashville, TN	4,224,393	-	-	-	4,224,393
87	Portsmouth, NH	4,108,430	3,477,095	3,397,999	79,096	631,335
88	Palm Beach, FL	4,022,089	1,778,633	661,309	1,117,324	2,243,456
89	Port Canaveral, FL	3,981,134	2,832,273	2,580,007	252,266	1,148,861
90	Mount Vernon, IN	3,834,866	-	-	-	3,834,866
91	Marine City, MI	3,712,646	22,470	22,470	-	3,690,176
92	Ponce, PR	3,712,351	3,646,556	3,454,706	191,850	65,795
93	Kansas City, MO	3,574,749	-	-	-	3,574,749
94	Kahului, Maui, HI	3,458,498	-	-	-	3,458,498
95	Fall River, MA	3,391,888	949,503	949,503	-	2,442,385
96	Marblehead, OH	3,384,360	263,215	4,312	258,903	3,121,145
97	Alpena, MI	3,217,718	196,260	53,473	142,787	3,021,458
98	Port Dolomite, MI	3,146,799	414,974	-	414,974	2,731,825
99	Kivilina, AK	3,126,661	1,511,444	-	1,511,444	1,615,217
100	Milwaukee, WI	3,126,642	1,419,103	885,579	533,524	1,707,539

Table 5-2: SELECTED U.S. PORTS BY PORT NAME, 2002, RANKED BY TOTAL TONS - continued  
(short tons)

Rank	Port_Name	Grand Total	Foreign			Domestic
			Total	Inbound	Outbound	
101	Everett, WA	3,009,175	504,174	197,676	306,498	2,505,001
102	Anchorage, AK	2,983,137	664,484	251,203	413,281	2,318,653
103	Penn Manor, PA	2,847,590	2,741,222	2,728,537	12,685	106,368
104	Greenville, MS	2,781,813	-	-	-	2,781,813
105	Chattanooga, TN	2,769,683	-	-	-	2,769,683
106	Brunswick, GA	2,577,065	2,466,882	1,477,562	989,320	110,183
107	Port Jefferson, NY	2,505,338	-	-	-	2,505,338
108	San Diego, CA	2,479,852	1,863,362	1,731,857	131,505	616,490
109	Panama City, FL	2,477,772	764,930	489,500	275,430	1,712,842
110	Stockton, CA	2,428,203	2,359,085	1,536,950	822,135	69,118
111	Guntersville, AL	2,417,234	-	-	-	2,417,234
112	Biloxi, MS	2,329,524	-	-	-	2,329,524
113	Fairport Harbor, OH	2,325,662	523,743	154,452	369,291	1,801,919
114	Gulfport, MS	2,290,453	2,157,479	1,255,667	901,812	132,974
115	Muskegon, MI	2,187,003	263,702	263,702	-	1,923,301
116	Tulsa, Port of Catoosa, OK	2,097,187	-	-	-	2,097,187
117	Morehead City, NC	2,096,824	1,299,007	770,343	528,664	797,817
118	Green Bay, WI	2,078,220	302,018	299,832	2,186	1,776,202
119	San Francisco, CA	2,005,723	1,165,453	1,069,352	96,101	840,270
120	Chester, PA	1,817,672	1,531,521	1,287,685	243,836	286,151
121	Helena, AR	1,778,121	-	-	-	1,778,121
122	Minneapolis, MN	1,769,655	-	-	-	1,769,655
123	Hilo, HI	1,765,300	-	-	-	1,765,300
124	Coos Bay, OR	1,706,821	1,368,151	151,575	1,216,576	338,670
125	Buffalo, NY	1,685,873	441,434	441,434	-	1,244,439
126	Port Angeles, WA	1,673,985	296,293	188,784	107,509	1,377,692
127	Grays Harbor, WA	1,665,756	916,806	479,594	437,212	748,950
128	Kawaihae Harbor, HI	1,644,703	-	-	-	1,644,703
129	Nawiliwili, Kauai, HI	1,618,567	-	-	-	1,618,567
130	Manistee, MI	1,457,338	1,028,053	154,062	873,991	429,285
131	Olympia, WA	1,440,439	116,241	26,174	90,067	1,324,198
132	Pensacola, FL	1,422,852	145,183	134,154	11,029	1,277,669
133	Georgetown, SC	1,410,994	1,316,669	1,281,189	35,480	94,325
134	Richmond, VA	1,363,424	487,158	241,409	245,749	876,266
135	Erie, PA	1,361,686	155,770	153,459	2,311	1,205,916
136	Weedon Island, FL	1,353,692	-	-	-	1,353,692
137	Charlevoix, MI	1,343,174	123,965	14,865	109,100	1,219,209
138	Marysville, MI	1,323,310	390,177	390,177	-	933,133
139	Kelleys Island, OH	1,289,245	-	-	-	1,289,245
140	Buffington, IN	1,250,645	-	-	-	1,250,645
141	Hempstead, NY	1,236,370	-	-	-	1,236,370
142	Drummond Island, MI	1,220,901	237,229	10,929	226,300	983,672
143	Sabine Pass, TX	1,214,323	80,394	80,229	165	1,133,929
144	Port Hueneme, CA	1,152,114	1,097,635	986,582	111,053	54,479
145	Hopewell, VA	1,108,381	333,499	16,844	316,655	774,882
146	Searsport, ME	1,039,705	763,596	763,596	-	276,109
147	Stamford, CT	1,010,092	-	-	-	1,010,092
148	Trenton, NJ	1,008,107	-	-	-	1,008,107
149	Monroe, MI	1,008,011	91,805	91,805	-	916,206
150	New Bedford, MA	952,703	380,371	380,371	-	572,332

## 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
1st Class Postage . . . . .	6.00
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
Manuscript Data on diskette . . . . .	5.00
Part 3 WCUS, Waterways and Harbors of the Great Lakes. . . . .	6.00
1st Class Postage . . . . .	3.00
Manuscript Data on diskette . . . . .	5.00
Part 4 WCUS, Waterways and Harbors on the Pacific Coast, Alaska and Hawaii . . . .	9.00
1st Class Postage . . . . .	5.00
Manuscript Data on diskette . . . . .	5.00
Part 5 WCUS, National Summaries . . . . .	4.00
1st Class Postage . . . . .	3.00
Public Domain Database (Area to Area or State to State)	
Hardcopy . . . . .	15.00
Diskette. . . . .	5.00
Waterborne Transportation Lines of the United States (WTLUS)	
Volume 1 National Summaries . . . . .	2.00
1st Class Postage . . . . .	2.00
Volume 2 Vessel Company Summary. . . . .	4.00
1st Class Postage . . . . .	3.00
Vessel Company Information on diskette (decompressing utility included). . . . .	5.00
Volume 3 Vessel Characteristics . . . . .	20.00
1st Class Postage . . . . .	6.00
Vessel Characteristics on diskette (decompressing utility included) . . . . .	5.00

**Complimentary Copies**

- The U.S. Waterway System - FACTS
- Tonnage for Selected United States Ports
- State Tonnage Report (Total waterborne commerce by state)
- Waterborne Commerce National Totals and Selected Inland Waterways for Multiple Years
- Summary of United States Flag Vessels
- Summary of Lock Statistics (Contact: Navigation Data Center, (703) 428-8458)

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-Q0. Call (504) 862-1424, or FAX (504) 862-1423.

For a review of other services provided through the Waterborne Commerce Statistics Center, please contact the Internet Access WCSC Home Page at <http://www.iwr.usace.army.mil/ndc/wcsc.htm> or for E-mail: CEIWR-NDCWCSC.WEBMASTER@.usace.army.mil.

(09/30/2003)

## Ordering Guide for Port Series Reports

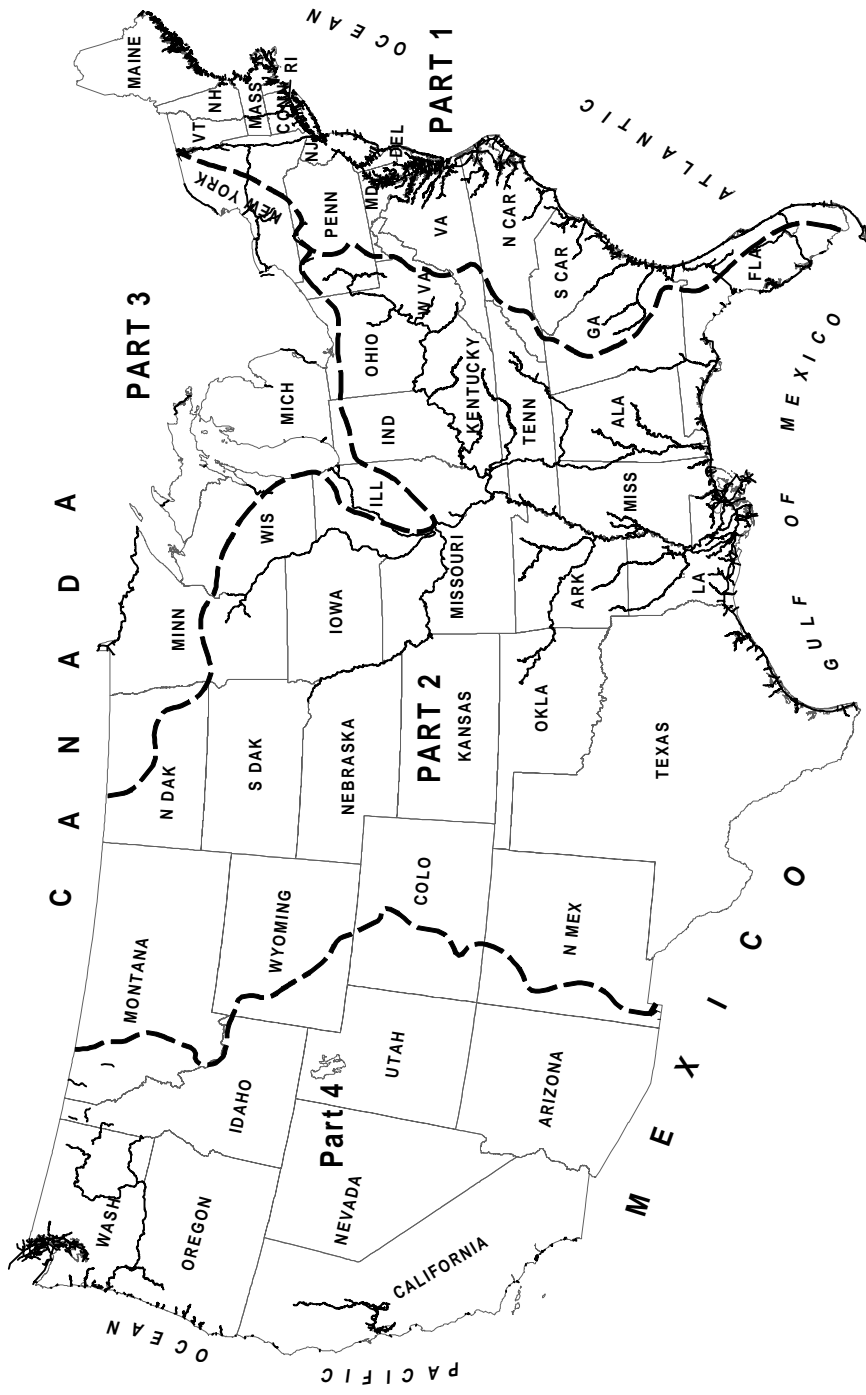
<u>NO.</u>		<u>Date of Publication</u>	<u>Sales Price</u>
1	Portland and Searsport, ME, and Portsmouth, NH	2001	\$ 18.00
3	Boston, MA	1994	20.00
4	Ports of Southern New England (Bridgeport, CT; New Haven, CT; Connecticut River, CT; New London, CT; Providence, RI; Fall River, MA; New Bedford, MA; Fairhaven, MA)	1994	24.00
5	New York, NY, and NJ, and Ports on Long Island, NY	1999	56.00
6	Albany and Ports on the Hudson River, NY	1996	18.00
8	Philadelphia, PA; Camden, NJ; Wilmington, DE; and Ports on Delaware River	1998	25.00
10	Baltimore, MD	2000	22.00
11	Ports of Hampton Roads, and Ports on the James and York Rivers, VA	1993	36.00
12	Wilmington and Morehead City, NC	1997	24.00
13	Charleston and Georgetown, SC	1997	15.00
14	Savannah and Brunswick, GA	2000	21.00
15	Jacksonville and Fernandina Beach, FL	1997	15.00
16	Miami, Port Everglades, Palm Beach, and Port Canaveral, FL	1999	40.00
17	The Ports of Tampa and Port Manatee, FL	1996	21.00
18	Mobile, AL	1998	11.00
19	Panama City and Penscola, FL; Pascagoula and Gulfport, MS; and Ports on the Apalachicola, Chattahoochee, and Flint Rivers	1998	25.00
20	New Orleans, LA	2002	38.00
20A	Mississippi River Ports Below and Above New Orleans, LA	2003	40.00
21	Baton Rouge and Lake Charles, LA	2002	39.00
22	Port Arthur, Beaumont, and Orange, TX	2001	33.50
23	Galveston and Texas City, TX	1996	21.00
24	Houston, TX	1999	36.00
25	Corpus Christi, TX	2003	26.00
26	Freeport, Point Comfort/Port Lavaca, Brownsville, and Ports along Gulf Intracoastal Waterway, TX	2003	36.00
27	San Diego, CA	1998	29.00
28	The Ports of Long Beach, Los Angeles and Port Hueneme, CA	1996	28.00
30	San Francisco, Redwood City, and Humboldt Bay, CA	2000	17.00
31	Oakland, Alameda, Richmond, and Ports on Carquinez Strait, CA	2000	22.00
32	Sacramento, Stockton, Pittsburg and Antioch, Ca	1996	28.00
33	Ports on the Oregon Coast	2001	13.50
34	Port of Portland, OR and Ports on the Columbia-Snake River System (Astoria, The Dalles, Boardman, and Umatilla, OR; Longview, Kalama, Vancouver, Pasco/ Kennewick, Wilma, and Clarkston, WA; and Lewiston, ID)	1996	44.00
35	Tacoma, Olympia and Grays Harbor, WA	1993	19.00
36	Seattle, WA	2002	25.00
37	Port Angeles, Port Townsend, Everett, Anacortes, and Bellingham, WA.	1998	12.50
38	Southeast Alaska (Metlakatla, Ketchikan, Hollis, Thorne Bay, Hydaburg, Craig, Klawock, Wrangell, Petersburg, Kake, Juneau, Angoon, Haines, Skagway, Sitka, Pelican, Gustavus, Hoonah, and Yakutat)	1995	28.00
39	Ports of Southwest and Western Alaska (1ST EDITION)	1994	28.00
41	Buffalo, Rochester, Oswego, and Ogdensburg, NY	2001	18.00
42	U.S. Ports on Lake Erie (Erie, PA; and Conneaut, Ashtabula, Fairport Harbor, Lorain, Huron, and Sandusky, OH)	2001	20.00
43	Cleveland, OH	2000	11.00
44	Toledo, OH	2000	11.00
45	Detroit and Monroe, and Ports on the Saginaw River, MI	1996	31.00
46	Chicago, IL	1995	28.00
48	Milwaukee, WI and Ports on Lake Michigan	1995	32.00
49	Duluth, MN; Superior, WI; Taconite Harbor, Silver Bay, and Two Harbors, MN; and Ashland, WI	2000	14.00
50	Ports of Hawaii (Honolulu, Port Allen, Nawiliwili, Kahului, Kuanakakai, Kawaihae, and Hilo)	1999	19.00
60	Pittsburgh, PA, and Ports on the Ohio, Monongahela, and Allegheny Rivers, PA	1992	17.00
61	Huntington, WV, Ports on Ohio River (Miles 40-317), and Kanawha River, WV	1992	17.00
62	Cincinnati, OH, and Ports on Ohio River (Miles 317-560)	1991	12.00
63	Louisville, KY, Ports on Ohio River (Miles 560-980), and Cumberland and Green Rivers	1992	14.00
64	Ports on Tennessee River, Tennessee-Tombigbee and Black Warrior-Tombigbee Waterways, and Alabama River	1998	46.00
65	Ports on Illinois Waterway (Miles 0-291), Grafton to Lockport, IL	1994	17.00
68	Ports on the Arkansas, Red and Ouachita River Systems and Missouri River	2002	34.00
69	Minneapolis-St. Paul, MN, and Ports on Upper Mississippi River (Miles 300-860 AOR)	1994	46.00
70	St. Louis, MO, and Ports on Upper Mississippi River (Miles 0-300 AOR)	1992	13.00
71	Memphis, TN; Helena, AR; and Ports on Lower Mississippi River (Miles 620-954 AHP)	1993	14.00
72	Natchez, Vicksburg, and Greenville, MS, and Ports on Lower Mississippi River (Miles 255-620 AHP)	1991	11.00

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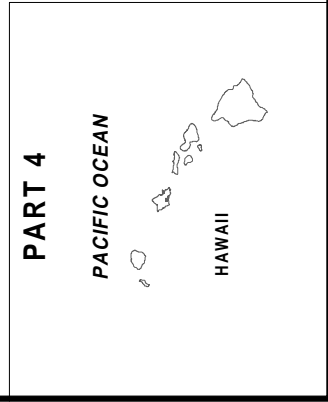
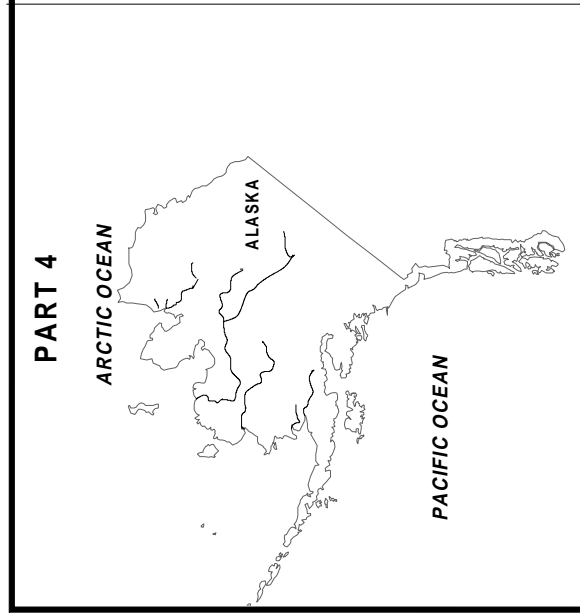


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**WATERBORNE COMMERCE OF THE UNITED STATES**

- Part 1 - Atlantic Coast
- Part 2 - Gulf Coast, Mississippi River System and Antilles
- Part 3 - Great Lakes
- Part 4 - Pacific Coast, Alaska and Hawaii
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