
WATERBORNE COMMERCE OF THE UNITED STATES

Calendar Year 1997

Part 4—
Waterways and Harbors
Pacific Coast, Alaska and Hawaii



Compiled under the supervision of
the Water Resources Support Center
U.S. Army Corps of Engineers
Fort Belvoir, Virginia

For sale by:
District Engineer, U.S. Army Engineer District, New Orleans,
P.O. Box 60267, New Orleans, Louisiana 70160

Price \$9.00

CONTENTS

	Page
Introduction	ii
Terminology	v
Commodity Classification List	viii
Freight Traffic	
Los Angeles, CA	3
Sacramento, CA.	15
San Francisco, CA	24
Pacific Ocean Division	47
Walla Walla, WA	57
Portland, OR	60
Seattle, WA	101
Alaska	123
Trips and Drafts	
Los Angeles, CA	157
Sacramento, CA.	161
San Francisco, CA	165
Pacific Ocean Division	173
Walla Walla, WA	177
Portland, OR	178
Seattle, WA	191
Alaska	199
Index	210

Introduction

General

Waterborne Commerce of the United States, WCUS, Part 4 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, the Commonwealth of Puerto Rico, and the Virgin Islands.

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 movements in Department of Defense vessels are 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.

The fish landing data is furnished by the National Marine Fisheries Service. No domestic fishing vessel trips are included in the trip and draft data of the Trips and Drafts Section.

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 Guam, Wake Island and American Samoa and any other foreign country.

Foreign waterborne intraport and export statistics are derived primarily from data furnished to the Corps of Engineers by the Bureau of the Census and the U.S. Customs Service. In-transit statistics are derived primarily from data purchased from the Port Import Export Reporting Service, Inc. and supplemented by data provided by Customs and Census.

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

Import and export shipments for use of the United States Armed Forces abroad are not reported to the Waterborne Commerce Statistics Center (WCSC). Beginning with calendar year 1989 shipments under the military assistance

program of the Department of Defense are included in the statistics under the appropriate commodity code. In prior years these cargoes were given as commodity code 9999.

Commodity Descriptions

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

Tonnage

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

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

Some freight tables have "Total" and "Grand Total". The "Total" means that in some cases it is the total for domestic or foreign and Canadian traffic. The "Grand Total" specifically represents the sum total of all the different traffics, including all domestic and foreign traffic. If a particular column or traffic type has only dashes and zeroes in the tonnage fields for that entire freight table then that column (traffic type) will not print.

Ton-Miles

For lakewise domestic movements, ton-miles equal the cargo tonnage times the distance between the U.S. Great Lakes ports. For overseas imports and exports, foreign ton-miles are computed by multiplying the cargo tonnage by the miles carried on U.S. waterways and channels. Ton-miles are rounded to the nearest 1000 ton-miles. The ton-mile data appears in the publication by traffic type at the end of a particular freight table for a given project. Since

there are columns that will not print (see tonnage above) the ton-miles associated with these columns will likewise not be included in the total ton-miles for that particular freight table. They will be included in "Ton-miles All Traffic" at the end of the project.

Trips

A trip is a vessel movement. For self-propelled vessels, a trip is logged between every point of departure and every point of arrival. For loaded barges, a trip is logged from the point of the loading of the barge to the point of unloading of the barge (i.e., excluding fleeting areas). For empty barges, trips are logged from point of unloading to the point of loading counting the fleeting areas in between (e.g. if an empty barge moved from Dock A to Dock B and the barge stopped at three fleeting areas in between, then four trips are logged.)

Some towboat trips and empty barge moves are estimated from a sample to expedite processing and reduce costs. Even with sampling, however, the number of towboat trips

are calculated from more than 70% of the total number of towboat moves reported, and the number of barge trips are derived from more than 85% of the total number of barge trips reported.

The number of trips also includes vessels engaged in foreign trade. These moves are furnished by the Bureau of the Census who process the data collected on U.S. Customs Service entrance and clearance forms.

To more accurately reflect actual traffic patterns (e.g. inbound versus outbound trip counts), some adjustments are made to the trip counts in the trip and draft tables in this publication.

Special Interest

... For calendar year 1997 the State of California did not furnish the fish statistics in time for this printing.

... Passenger totals are not included in this publication but are available on request.

Terminology

Types of Traffic

Foreign

Imports

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

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

Exports

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

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

In-transit Merchandise: Merchandise coming into the United States from a foreign country and shipped to a foreign country without having been entered as an import. In-transit merchandise is treated as an **Import (inbound)** when unloaded from a vessel and as an **Export (outbound)** when loaded onto a vessel.

Domestic

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

Lakewise: Waterborne traffic between the United States ports on the Great Lakes System. The Great Lakes System is treated as a separate waterway system rather than as a part of the inland waterway system. In comparing historical data for the Great Lakes System, one should note that prior to calendar year 1990, marine products, and 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 San Francisco Bay, which are considered internal bodies of water rather than arms of the ocean.

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

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

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

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

Traffic Direction

Waterways

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

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

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

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

Ports

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

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

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

Tons: The tonnage figures provided throughout the *Waterborne Commerce of the United States, WCUS, Parts 1-5* represent short tons (2000 pounds).

Where noted, tonnage figures are rounded to the nearest thousand tons. A zero represents less than 500 tons but more than zero. Dashes mean zero tons. Columns and rows may not add up exactly to totals and subtotals due to rounding.

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

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

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

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

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

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

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

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

Ton-miles are rounded to the nearest thousand.

Trans-shipments: Ports and offshore anchorages where cargo is moved from one vessel to another. These are: St. Lucia, Virgin Islands; Heald Bank off the Louisiana and Texas coasts; Chirqui Grande, Panama; Puerto Armuelles, Panama; and Hondo Platform-Pacific Ocean.

Commodity Classification List

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

Commodity Classification List (continued)

Major Grouping

Minor Grouping

Pub Group Pub Name

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

- 50 Primary Manufactured Goods
 - 51 Paper Products
 - 5110 Newsprint
 - 5120 Paper & Paperboard
 - 5190 Paper Products NEC
 - 52 Lime, Cement and Glass
 - 5210 Lime
 - 5220 Cement & Concrete
 - 5240 Glass & Glass Prod.
 - 5290 Misc. Mineral Prod.
 - 53 Primary Iron and Steel Products
 - 5312 Pig Iron
 - 5315 Ferro Alloys
 - 5320 I&S Primary Forms
 - 5330 I&S Plates & Sheets
 - 5360 I&S Bars & Shapes
 - 5370 I&S Pipe & Tube
 - 5390 Primary I&S NEC
 - 54 Primary Non-Ferrous Metal Products
 - 5421 Copper
 - 5422 Aluminum
 - 5429 Smelted Prod. NEC
 - 5480 Fab. Metal Products
 - 55 Primary Wood Products; Veneer
 - 5540 Primary Wood Prod.

- 60 Food and Farm Products
 - 61 Fish
 - 6134 Fish (Not Shellfish)
 - 6136 Shellfish
 - 62-64 Grain
 - 6241 Wheat
 - 6344 Corn
 - 6442 Rice
 - 6443 Barley & Rye
 - 6445 Oats
 - 6447 Sorghum Grains
 - 65 Oilseeds
 - 6521 Peanuts
 - 6522 Soybeans
 - 6534 Flaxseed
 - 6590 Oilseeds NEC
 - 66 Vegetable Products
 - 6653 Vegetable Oils
 - 6654 Vegetables & Prod.
 - 67 Processed Grain and Animal Feed
 - 6746 Wheat Flour
 - 6747 Grain Mill Products

Major Grouping

Minor Grouping

Pub Group Pub Name

- 6781 Hay & Fodder
- 6782 Animal Feed, Prep.

- 68 Other Agricultural Products
 - 6811 Meat, Fresh, Frozen
 - 6817 Meat, Prepared
 - 6822 Dairy Products
 - 6835 Fish, Prepared
 - 6838 Tallow, Animal Oils
 - 6839 Animals & Prod. NEC
 - 6856 Bananas & Plantains
 - 6857 Fruit & Nuts NEC
 - 6858 Fruit Juices
 - 6861 Sugar
 - 6865 Molasses
 - 6871 Coffee
 - 6872 Cocoa Beans
 - 6885 Alcoholic Beverages
 - 6887 Groceries
 - 6888 Water & Ice
 - 6889 Food Products NEC
 - 6891 Tobacco & Products
 - 6893 Cotton
 - 6894 Natural Fibers NEC
 - 6899 Farm Products NEC

- 70 All Manufactured Equipment, Machinery and Products
 - 7110 Machinery (Not Elec)
 - 7120 Electrical Machinery
 - 7210 Vehicles & Parts
 - 7220 Aircraft & Parts
 - 7230 Ships & Boats
 - 7300 Ordnance & Access.
 - 7400 Manufac. Wood Prod.
 - 7500 Textile Products
 - 7600 Rubber & Plastic Pr.
 - 7800 Empty Containers
 - 7900 Manufac. Prod. NEC

- 80 Waste and Scrap NEC
 - 8900 Waste and Scrap NEC

- 90 Unknown or Not Elsewhere Classified
 - 99 Unknown or Not Elsewhere Clsfd
 - 9900 Unknown or NEC

Section 1

Freight Traffic

SAN DIEGO HARBOR, CA

Section Included: Entire harbor. Controlling and Project Depths: 42 feet in entrance channel; 30 to 42 feet in Bay Channel, and turning basin 26 to 35 feet in anchorage areas; 10 to 16 feet in other channels and areas.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	2,017	1991	904	1994	1,167	1997	1,724
1989	1,741	1992	638	1995	1,351		
1990	1,280	1993	1,294	1996	1,842		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
Total, all commodities	788	391	356	27	14
Total coal	0	—	0	—	—
1200 coal coke	0	—	0	—	—
Total petroleum and petroleum products	27	—	27	—	—
Subtotal petroleum products	27	—	27	—	—
2211 gasoline	26	—	26	—	—
2350 lube oil & greases	1	—	1	—	—
2429 naphtha & solvents	0	—	0	—	—
2640 liquid natural gas	0	—	0	—	—
Total chemicals and related products	424	111	300	—	14
Subtotal fertilizers	111	111	—	—	—
3110 nitrogenous fert.	75	75	—	—	—
3190 fert. & mixes nec	36	36	—	—	—
Subtotal other chemicals and related products	314	0	300	—	14
3219 other hydrocarbons	0	—	0	—	—
3220 alcohols	0	0	0	—	—
3230 carboxylic acids	1	—	1	—	—
3240 nitrogen func. comp.	0	—	0	—	—
3250 organo-inorganic comp.	0	—	0	—	—
3260 organic comp. nec	0	—	0	—	—
3276 metallic salts	305	0	291	—	14
3282 pigments & paints	0	—	0	—	—
3283 coloring mat. nec	0	—	0	—	—
3284 medicines	0	—	0	—	—
3285 perfumes & cleansers	0	—	0	—	—
3286 plastics	6	—	6	—	—
3291 pesticides	0	—	0	—	—
3292 starches, gluten, glue	0	—	0	—	—
3297 chemical additives	0	—	0	—	—
3299 chem. products nec	1	0	0	—	—
Total crude materials, inedible except fuels	59	52	7	—	—
Subtotal forest products, wood and chips	35	35	0	—	—
4189 lumber	0	—	0	—	—
4190 forest products nec	35	35	—	—	—
Subtotal pulp and waste paper	7	—	7	—	—
4225 pulp & waste paper	7	—	7	—	—
Subtotal iron ore and scrap	18	17	0	—	—
4410 iron ore	17	17	—	—	—
4420 iron & steel scrap	0	—	0	—	—
Subtotal sulphur, clay and salt	0	—	0	—	—
4782 clay & refrac. mat.	0	—	0	—	—
Subtotal other non-metal. min.	0	—	0	—	—
4900 non-metal. min. nec	0	—	0	—	—
Total primary manufactured goods	37	6	4	27	—
Subtotal paper products	34	5	2	27	—
5110 newsprint	32	—	—	27	—
5120 paper & paperboard	2	0	2	—	—
5190 paper products nec	0	—	0	—	—
Subtotal lime, cement and glass	1	—	1	—	—
5240 glass & glass prod.	1	—	1	—	—
5290 misc. mineral prod.	0	—	0	—	—
Subtotal primary iron and steel products	1	1	0	—	—
5360 i&s bars & shapes	0	—	0	—	—
5370 i&s pipe & tube	1	1	0	—	—
Subtotal primary non-ferrous metal products	1	0	0	—	—
5421 copper	0	—	—	—	—
5422 aluminum	0	—	0	—	—
5429 smelted prod. nec	0	—	0	—	—
5480 fab. metal products	1	0	0	—	—
Subtotal primary wood products	0	—	0	—	—
5540 primary wood prod.	0	—	0	—	—
Total food and farm products	30	22	8	—	—
Subtotal grain	2	—	2	—	—
6442 rice	1	—	1	—	—
6443 barley & rye	0	—	0	—	—
Subtotal vegetable products	2	—	2	—	—
6653 vegetable oils	1	—	1	—	—
6654 vegetables & prod.	0	—	0	—	—
Subtotal processed grain and animal feed	1	—	1	—	—
6747 grain mill products	0	—	0	—	—
6782 animal feed, prep.	1	—	1	—	—
Subtotal other agricultural products	26	22	3	—	—
6811 meat, fresh, frozen	0	—	0	—	—
6822 dairy products	0	—	0	—	—

SAN DIEGO HARBOR, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
6835 fish, prepared	1	1	—	—	—
6857 fruit & nuts nec	22	22	—	—	—
6858 fruit juices	0	—	0	—	—
6871 coffee	0	—	0	—	—
6885 alcoholic beverages	0	—	0	—	—
6889 food products nec	1	—	1	—	—
6893 cotton	3	—	3	—	—
6899 farm products nec	0	—	0	—	—
Total all manufactured equipment, machinery and products	210	199	11	—	—
7110 machinery (not elec)	1	0	1	—	—
7120 electrical machinery	1	0	1	—	—
7210 vehicles & parts	199	198	0	—	—
7230 ships & boats	1	0	1	—	—
7400 manufac. wood prod.	0	0	0	—	—
7500 textile products	7	0	7	—	—
7600 rubber & plastic pr.	0	0	0	—	—
7900 manufac. prod. nec	1	0	1	—	—
Total unknown or not elsewhere classified	0	0	0	—	—
9900 unknown or nec	0	0	0	—	—

Commodity	Total	Domestic			
		Coastwise		Internal	
		Receipts	Shipments	Receipts	Intraport
Total, all commodities	937	600	251	72	14
Total petroleum and petroleum products	474	474	0	—	—
Subtotal petroleum products	474	474	0	—	—
2211 gasoline	199	199	—	—	—
2330 distillate fuel oil	0	0	0	—	—
2340 residual fuel oil	275	275	—	—	—
Total crude materials, inedible except fuels	462	125	251	72	14
Subtotal forest products, wood and chips	197	125	—	72	—
4189 lumber	125	125	—	—	—
4190 forest products nec	72	—	—	72	—
Subtotal soil, sand, gravel, rock and stone	264	—	251	—	14
4331 sand & gravel	264	—	251	—	14
Subtotal sulphur, clay and salt	0	—	0	—	—
4782 clay & refrac. mat.	0	—	0	—	—
Total primary manufactured goods	0	0	0	—	—
Subtotal lime, cement and glass	0	—	0	—	—
5240 glass & glass prod.	0	—	0	—	—
Subtotal primary iron and steel products	0	—	0	—	—
5370 i&s pipe & tube	0	—	0	—	—
Subtotal primary non-ferrous metal products	0	0	0	—	—
5480 fab. metal products	0	0	0	—	—
Total food and farm products	0	—	0	—	—
Subtotal other agricultural products	0	—	0	—	—
6888 water & ice	0	—	0	—	—
Total all manufactured equipment, machinery and products	2	2	0	—	0
7110 machinery (not elec)	0	0	0	—	0
7230 ships & boats	1	1	0	—	—
7300 ordnance & access.	1	1	—	—	—
7900 manufac. prod. nec	0	0	0	—	—
Total waste and scrap nec	0	0	—	—	—
8900 waste and scrap nec	0	0	—	—	—

*Includes 0 (x1000) tons of foreign inbound in-transits.

LONG BEACH HARBOR, CA

Section Included: Entire harbor within the city limits of Long Beach. Controlling Depth: 62 feet in Long Beach Entrance Channel; 50 feet to 55 feet in turning basins; 35 feet in Cerritos Channel. Project Depth: 35 feet in Long Beach channel and other channels and basins.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	46,560	1991	52,891	1994	56,522	1997	57,255
1989	54,808	1992	52,049	1995	53,227		
1990	52,425	1993	54,321	1996	58,395		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
Total, all commodities	38,357	20,809	17,178	367	2
Total coal	1,659	1	1,658	---	---
1100 coal lignite	1,659	1	1,658	---	---
1200 coal coke	0	---	0	---	---
Total petroleum and petroleum products	10,350	4,565	5,659	127	---
Subtotal crude petroleum	3,731	3,605	0	127	---
2100 crude petroleum	3,731	3,605	0	127	---
Subtotal petroleum products	6,619	960	5,659	0	---
2211 gasoline	245	185	61	---	---
2221 kerosene	170	168	2	---	---
2330 distillate fuel oil	356	170	186	---	---
2340 residual fuel oil	508	344	164	---	---
2350 lube oil & greases	76	3	74	---	---
2410 petro. jelly & waxes	6	2	4	---	---
2429 naphtha & solvents	456	87	369	0	---
2430 asphalt, tar & pitch	163	0	162	---	---
2540 petroleum coke	4,633	0	4,633	---	---
2640 liquid natural gas	6	2	4	---	---
Total chemicals and related products	3,568	1,291	2,181	96	0
Subtotal fertilizers	44	15	29	---	---
3110 nitrogenous fert.	10	9	1	---	---
3120 phosphatic fert.	1	0	0	---	---
3130 potassic fert.	1	0	1	---	---
3190 fert. & mixes nec	32	6	26	---	---
Subtotal other chemicals and related products	3,525	1,276	2,152	96	0
3211 acyclic hydrocarbons	19	1	19	---	---
3212 benzene & toluene	0	0	0	---	---
3219 other hydrocarbons	28	4	24	---	---
3220 alcohols	116	26	57	33	---
3230 carboxylic acids	118	28	90	---	---
3240 nitrogen func. comp.	121	31	90	---	---
3250 organo-inorganic comp.	75	15	61	---	---
3260 organic comp. nec	648	555	36	56	---
3271 sulphur (liquid)	22	0	22	---	---
3272 sulphuric acid	14	11	3	---	---
3273 ammonia	4	1	4	---	---
3274 sodium hydroxide	17	1	12	4	---
3275 inorg. elem.oxides, & halogen salts	156	69	85	1	---
3276 metallic salts	154	30	124	---	---
3279 inorganic chem. nec	11	8	2	---	---
3281 radioactive material	10	7	3	---	---
3282 pigments & paints	90	13	78	---	0
3283 coloring mat. nec	17	13	4	---	---
3284 medicines	35	14	21	0	---
3285 perfumes & cleansers	111	18	93	---	---
3286 plastics	1,406	313	1,092	1	0
3291 pesticides	25	4	22	0	---
3292 starches, gluten, glue	54	17	37	0	0
3293 explosives	28	28	1	---	---
3297 chemical additives	54	2	52	---	0
3298 wood & resin chem.	13	5	8	---	---
3299 chem. products nec	179	63	116	0	0
Total crude materials, inedible except fuels	3,460	1,035	2,389	37	0
Subtotal forest products, wood and chips	352	229	87	36	0
4110 rubber & gums	151	150	1	0	---
4150 fuel wood	10	7	3	---	---
4161 wood chips	7	---	7	---	---
4170 wood in the rough	21	2	19	---	---
4189 lumber	122	38	48	36	0
4190 forest products nec	40	32	8	---	---
Subtotal pulp and waste paper	976	29	946	0	---
4225 pulp & waste paper	976	29	946	0	---
Subtotal soil, sand, gravel, rock and stone	653	606	47	0	---
4310 building stone	4	2	2	0	---
4322 limestone	7	0	7	---	---
4323 gypsum	535	519	15	---	---
4327 phosphate rock	1	0	1	---	---
4331 sand & gravel	106	85	21	---	---
Subtotal iron ore and scrap	617	3	615	---	0
4410 iron ore	0	---	0	---	---
4420 iron & steel scrap	617	3	615	---	0
Subtotal marine shells	3	1	2	---	---
4515 marine shells	3	1	2	---	---
Subtotal non-ferrous ores and scrap	138	20	118	---	---
4630 copper ore	0	0	0	---	---

LONG BEACH HARBOR, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
4650 aluminum ore	19	3	16	—	—
4670 manganese ore	—	—	0	—	—
4680 non-ferrous scrap	105	13	93	—	—
4690 non-ferrous ores nec	13	3	9	—	—
Subtotal sulphur, clay and salt	514	8	506	—	—
4741 sulphur, (dry)	442	0	442	—	—
4782 clay & refrac. mat.	72	8	64	—	—
Subtotal slag	0	0	0	—	—
4860 slag	0	0	0	—	—
Subtotal other non-metal. min.	207	139	68	—	0
4900 non-metal. min. nec	207	139	68	—	0
Total primary manufactured goods	5,112	4,100	909	102	1
Subtotal paper products	715	187	426	102	0
5110 newsprint	158	32	26	100	—
5120 paper & paperboard	413	95	316	2	0
5190 paper products nec	144	60	84	0	0
Subtotal lime, cement and glass	1,923	1,717	205	0	0
5210 lime	0	0	0	—	—
5220 cement & concrete	868	862	6	—	—
5240 glass & glass prod.	222	163	58	0	—
5290 misc. mineral prod.	833	692	141	0	0
Subtotal primary iron and steel products	1,114	1,050	64	0	0
5312 pig iron	12	3	9	—	—
5315 ferro alloys	9	6	3	—	—
5320 i&s primary forms	79	75	4	—	—
5330 i&s plates & sheets	577	558	19	—	—
5360 i&s bars & shapes	232	223	9	—	—
5370 i&s pipe & tube	167	148	19	—	0
5390 primary i&s nec	38	36	1	0	0
Subtotal primary non-ferrous metal products	1,269	1,079	190	0	0
5421 copper	57	24	33	—	—
5422 aluminum	70	20	50	0	0
5429 smelted prod. nec	87	60	27	—	0
5480 fab. metal products	1,055	975	79	0	0
Subtotal primary wood products	92	68	24	0	—
5540 primary wood prod.	92	68	24	0	—
Total food and farm products	5,109	1,930	3,175	4	1
Subtotal fish	336	263	73	0	0
6134 fish (not shellfish)	144	104	40	0	0
6136 shellfish	193	160	33	0	0
Subtotal grain	88	53	35	—	—
6241 wheat	1	—	1	—	—
6344 corn	17	1	17	—	—
6442 rice	57	53	4	—	—
6443 barley & rye	0	0	0	—	—
6445 oats	3	—	3	—	—
6447 sorghum grains	10	—	10	—	—
Subtotal oilseeds	93	24	69	0	—
6521 peanuts	1	1	0	—	—
6522 soybeans	56	0	56	—	—
6534 flaxseed	0	0	0	—	—
6590 oilseeds nec	36	23	13	0	—
Subtotal vegetable products	397	185	210	1	0
6653 vegetable oils	55	34	21	0	—
6654 vegetables & prod.	342	151	189	1	0
Subtotal processed grain and animal feed	962	130	832	0	0
6746 wheat flour	2	1	2	—	—
6747 grain mill products	84	48	36	0	—
6781 hay & fodder	570	0	570	—	—
6782 animal feed, prep.	305	81	224	—	0
Subtotal other agricultural products	3,233	1,275	1,956	2	1
6811 meat, fresh, frozen	277	33	244	0	0
6817 meat, prepared	37	11	25	—	—
6822 dairy products	35	4	31	—	0
6835 fish, prepared	181	136	45	0	—
6838 tallow, animal oils	56	6	50	—	—
6839 animals & prod. nec	164	29	135	0	—
6856 bananas & plantains	318	318	0	—	—
6857 fruit & nuts nec	555	100	455	0	0
6858 fruit juices	194	142	52	0	0
6861 sugar	4	2	2	—	—
6865 molasses	26	26	0	—	—
6871 coffee	161	144	17	0	0
6872 cocoa beans	9	8	1	0	—
6885 alcoholic beverages	289	147	141	1	0
6888 water & ice	57	45	11	0	0
6889 food products nec	265	92	173	0	0
6891 tobacco & products	57	4	53	—	—
6893 cotton	512	6	506	—	—
6894 natural fibers nec	5	4	1	—	—
6899 farm products nec	31	18	13	0	—
Total all manufactured equipment, machinery and products	8,989	7,829	1,158	2	1
7110 machinery (not elec)	1,016	744	272	0	0
7120 electrical machinery	1,793	1,604	189	0	0
7210 vehicles & parts	745	612	133	0	0
7220 aircraft & parts	7	1	6	0	—
7230 ships & boats	6	2	4	—	—
7300 ordnance & access.	9	3	6	—	—
7400 manufac. wood prod.	115	91	24	0	—
7500 textile products	1,391	1,224	166	1	0
7600 rubber & plastic pr.	869	696	173	0	0

LONG BEACH HARBOR, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
7900 manufac. prod. nec	3,039	2,853	185	0	0
Total unknown or not elsewhere classified	107	57	50	0	0
9900 unknown or nec	107	57	50	0	0

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intrapor
Total, all commodities	18,899	16,938	1,213	547	114	87
Total petroleum and petroleum products	17,517	16,032	747	539	113	87
Subtotal crude petroleum	14,362	13,938	280	105	39	—
2100 crude petroleum	14,362	13,938	280	105	39	—
Subtotal petroleum products	3,156	2,094	467	434	74	87
2211 gasoline	1,303	1,140	142	—	21	—
2330 distillate fuel oil	794	563	208	1	2	20
2340 residual fuel oil	906	246	110	431	51	67
2350 lube oil & greases	23	15	6	2	—	—
2429 naphtha & solvents	77	77	—	—	—	—
2430 asphalt, tar & pitch	27	27	—	—	—	—
2540 petroleum coke	0	—	0	—	—	—
2640 liquid natural gas	0	—	0	—	—	—
2990 petro. products nec	25	25	—	—	—	—
Total chemicals and related products	752	725	27	0	—	—
Subtotal fertilizers	3	0	3	—	—	—
3190 fert. & mixes nec	3	0	3	—	—	—
Subtotal other chemicals and related products	749	725	24	0	—	—
3219 other hydrocarbons	25	25	—	—	—	—
3220 alcohols	0	—	0	—	—	—
3230 carboxylic acids	5	4	1	—	—	—
3250 organo-inorganic comp.	0	—	0	—	—	—
3260 organic comp. nec	7	0	6	—	—	—
3272 sulphuric acid	0	—	0	—	—	—
3274 sodium hydroxide	40	40	—	—	—	—
3275 inorg. elem., oxides, & halogen salts	1	—	1	—	—	—
3282 pigments & paints	1	0	1	—	—	—
3284 medicines	0	—	0	—	—	—
3285 perfumes & cleansers	0	0	0	—	—	—
3286 plastics	6	—	6	—	—	—
3292 starches, gluten, glue	0	—	0	—	—	—
3297 chemical additives	650	650	0	—	—	—
3298 wood & resin chem.	8	4	3	—	—	—
3299 chem. products nec	6	1	4	0	—	—
Total crude materials, inedible except fuels	179	147	28	4	—	—
Subtotal forest products, wood and chips	145	144	0	—	—	—
4110 rubber & gums	0	—	0	—	—	—
4150 fuel wood	0	—	0	—	—	—
4189 lumber	145	144	0	—	—	—
4190 forest products nec	0	0	—	—	—	—
Subtotal pulp and waste paper	22	—	22	—	—	—
4225 pulp & waste paper	22	—	22	—	—	—
Subtotal soil, sand, gravel, rock and stone	2	2	0	0	—	—
4323 gypsum	0	—	0	—	—	—
4331 sand & gravel	2	2	0	0	—	—
Subtotal iron ore and scrap	6	0	6	—	—	—
4420 iron & steel scrap	6	0	6	—	—	—
Subtotal non-ferrous ores and scrap	0	0	0	—	—	—
4680 non-ferrous scrap	0	0	0	—	—	—
Subtotal sulphur, clay and salt	4	—	0	4	—	—
4782 clay & refrac. mat.	4	—	0	4	—	—
Subtotal other non-metal. min.	0	—	0	—	—	—
4900 non-metal. min. nec	0	—	0	—	—	—
Total primary manufactured goods	29	1	28	0	—	—
Subtotal paper products	12	0	12	—	—	—
5120 paper & paperboard	12	0	12	—	—	—
5190 paper products nec	0	0	0	—	—	—
Subtotal lime, cement and glass	2	1	1	0	—	—
5220 cement & concrete	0	—	0	—	—	—
5240 glass & glass prod.	1	1	0	—	—	—
5290 misc. mineral prod.	1	0	1	0	—	—
Subtotal primary iron and steel products	13	—	13	0	—	—
5312 pig iron	0	—	0	—	—	—
5320 i&s primary forms	0	—	0	—	—	—
5330 i&s plates & sheets	0	—	0	—	—	—
5360 i&s bars & shapes	13	—	13	—	—	—
5370 i&s pipe & tube	0	—	0	0	—	—
Subtotal primary non-ferrous metal products	2	0	2	0	—	—
5421 copper	0	—	0	—	—	—
5422 aluminum	0	—	0	—	—	—
5429 smelted prod. nec	0	—	0	—	—	—
5480 fab. metal products	2	0	1	0	—	—
Total food and farm products	150	3	145	1	—	—
Subtotal fish	1	0	1	—	—	—
6134 fish (not shellfish)	0	—	0	—	—	—

LONG BEACH HARBOR, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Receipts	Internal	
		Receipts	Shipments		Shipments	Intraport
6136 shellfish	1	0	1	—	—	—
Subtotal grain	1	—	1	—	—	—
6241 wheat	0	—	0	—	—	—
6344 corn	1	—	1	—	—	—
6442 rice	0	—	0	—	—	—
Subtotal oilseeds	0	—	0	—	—	—
6522 soybeans	0	—	0	—	—	—
Subtotal vegetable products	32	—	32	—	—	—
6653 vegetable oils	0	—	0	—	—	—
6654 vegetables & prod.	32	—	32	—	—	—
Subtotal processed grain and animal feed	12	1	11	—	—	—
6746 wheat flour	5	0	5	—	—	—
6747 grain mill products	0	—	0	—	—	—
6781 hay & fodder	2	—	2	—	—	—
6782 animal feed, prep.	5	0	4	—	—	—
Subtotal other agricultural products	104	2	100	1	—	—
6811 meat, fresh, frozen	2	0	2	—	—	—
6817 meat, prepared	7	—	7	—	—	—
6822 dairy products	0	0	0	—	—	—
6838 tallow, animal oils	0	—	0	—	—	—
6839 animals & prod. nec	5	—	5	—	—	—
6857 fruit & nuts nec	33	1	32	—	—	—
6858 fruit juices	1	1	0	—	—	—
6861 sugar	0	—	0	—	—	—
6871 coffee	0	0	0	—	—	—
6885 alcoholic beverages	15	—	15	—	—	—
6888 water & ice	1	—	—	1	—	—
6889 food products nec	5	1	5	—	—	—
6891 tobacco & products	3	—	3	—	—	—
6899 farm products nec	30	—	30	—	—	—
Total all manufactured equipment, machinery and products	272	29	239	3	1	0
7110 machinery (not elec)	1	0	1	—	0	0
7120 electrical machinery	1	0	1	—	—	—
7210 vehicles & parts	34	10	24	—	—	—
7220 aircraft & parts	0	0	0	—	—	—
7230 ships & boats	0	0	0	—	—	—
7300 ordnance & access.	1	1	0	—	—	—
7400 manufac. wood prod.	0	—	0	—	—	—
7500 textile products	2	2	1	—	—	—
7600 rubber & plastic pr.	2	0	2	—	—	—
7900 manufac. prod. nec	231	16	211	3	1	—
Total waste and scrap nec	0	—	0	—	—	—
8900 waste and scrap nec	0	—	0	—	—	—
Total unknown or not elsewhere classified	1	1	—	—	—	—
9900 unknown or nec	1	1	—	—	—	—

*Includes 1,763 (x1000) tons of foreign inbound in-transits; Includes 481 (x1000) tons of foreign outbound in-transits;
Includes 72 (x1000) tons of Canadian inbound in-transits; Includes 1 (x1000) tons of Canadian outbound in-transits.

LOS ANGELES HARBOR, CA

Section Included: Entire harbor within the city limits of Los Angeles. Controlling Depth: 45 to 51 feet in entrance and outer harbor channels and basins; 45 feet in Los Angeles channel and inner harbor basins and channels; 35 feet in Cerritos Channel. Project Depth: 45 to 51 feet in entrance and outer harbor channels and basins; 45 feet in Los Angeles channel and inner harbor basins and channels; 35 feet in Cerritos Channel.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	45,214	1991	47,008	1994	43,140	1997	41,774
1989	47,272	1992	40,104	1995	46,479		
1990	46,352	1993	43,623	1996	45,689		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
Total, all commodities	28,580	15,891	12,317	311	61
Total coal	2,133	1	2,132	—	—
1100 coal lignite	2,133	1	2,132	—	—
1200 coal coke	0	—	0	—	—
Total petroleum and petroleum products	4,457	2,186	2,159	75	37
Subtotal crude petroleum	808	808	—	—	—
2100 crude petroleum	808	808	—	—	—
Subtotal petroleum products	3,649	1,378	2,159	75	37
2211 gasoline	210	111	91	—	8
2221 kerosene	735	735	1	—	—
2330 distillate fuel oil	235	65	98	71	—

LOS ANGELES HARBOR, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
2340 residual fuel oil	453	244	176	4	29
2350 lube oil & greases	64	4	59	—	—
2410 petro. jelly & waxes	6	0	5	—	—
2429 naphtha & solvents	688	218	469	1	—
2430 asphalt, tar & pitch	91	0	91	—	—
2540 petroleum coke	1,124	0	1,124	—	—
2640 liquid natural gas	44	0	44	—	—
Total chemicals and related products	3,528	1,182	2,228	117	1
Subtotal fertilizers	39	4	35	0	0
3110 nitrogenous fert.	2	1	1	—	—
3120 phosphatic fert.	0	0	0	—	—
3130 potassic fert.	6	0	6	—	—
3190 fert. & mixes nec	31	3	28	0	0
Subtotal other chemicals and related products	3,489	1,178	2,193	117	1
3211 acyclic hydrocarbons	4	0	4	—	—
3212 benzene & toluene	0	0	0	—	—
3219 other hydrocarbons	43	5	38	—	—
3220 alcohols	102	27	41	33	—
3230 carboxylic acids	93	26	67	0	—
3240 nitrogen func. comp.	124	25	99	0	0
3250 organo-inorganic comp.	65	13	52	0	0
3260 organic comp. nec	822	696	56	70	0
3271 sulphur (liquid)	0	—	0	—	—
3272 sulphuric acid	4	1	3	—	—
3273 ammonia	2	0	2	—	—
3274 sodium hydroxide	35	22	11	1	—
3275 inorg. elem., oxides, & halogen salts	187	36	151	0	—
3276 metallic salts	467	16	447	3	—
3279 inorganic chem. nec	5	3	2	0	—
3281 radioactive material	4	2	2	0	—
3282 pigments & paints	81	19	62	0	0
3283 coloring mat. nec	11	7	4	—	—
3284 medicines	32	11	20	0	0
3285 perfumes & cleansers	93	9	84	0	0
3286 plastics	935	160	766	8	0
3291 pesticides	24	9	14	—	0
3292 starches, gluten, glue	61	33	28	0	0
3293 explosives	22	21	0	0	—
3297 chemical additives	117	4	114	0	0
3298 wood & resin chem.	11	3	8	0	—
3299 chem. products nec	148	29	119	0	0
Total crude materials, inedible except fuels	2,313	211	2,040	62	0
Subtotal forest products, wood and chips	248	161	51	35	0
4110 rubber & gums	100	100	0	—	—
4150 fuel wood	2	0	2	—	—
4161 wood chips	7	—	7	—	—
4170 wood in the rough	10	1	9	0	—
4189 lumber	102	38	30	34	0
4190 forest products nec	28	22	4	2	0
Subtotal pulp and waste paper	840	12	801	27	—
4225 pulp & waste paper	840	12	801	27	—
Subtotal soil, sand, gravel, rock and stone	59	3	56	—	0
4310 building stone	1	1	0	—	0
4322 limestone	1	0	1	—	—
4323 gypsum	26	0	26	—	—
4327 phosphate rock	1	0	1	—	—
4331 sand & gravel	30	2	28	—	0
Subtotal iron ore and scrap	842	1	841	—	—
4410 iron ore	1	0	1	—	—
4420 iron & steel scrap	841	1	841	—	—
Subtotal marine shells	1	1	0	—	—
4515 marine shells	1	1	0	—	—
Subtotal non-ferrous ores and scrap	127	17	109	0	0
4630 copper ore	0	0	0	—	—
4650 aluminum ore	11	4	7	—	—
4670 manganese ore	1	—	1	—	—
4680 non-ferrous scrap	87	8	79	0	0
4690 non-ferrous ores nec	27	5	22	0	—
Subtotal sulphur, clay and salt	100	7	93	0	—
4741 sulphur, (dry)	58	0	58	—	—
4782 clay & refrac. mat.	41	7	34	0	—
Subtotal slag	0	0	0	—	—
4860 slag	0	0	0	—	—
Subtotal other non-metal. min.	97	9	88	0	0
4900 non-metal. min. nec	97	9	88	0	0
Total primary manufactured goods	4,511	3,773	700	36	3
Subtotal paper products	538	159	343	34	2
5110 newsprint	65	26	14	25	—
5120 paper & paperboard	366	86	271	7	2
5190 paper products nec	106	47	58	1	0
Subtotal lime, cement and glass	947	797	149	1	0
5210 lime	0	0	0	—	—
5220 cement & concrete	283	261	22	0	—
5240 glass & glass prod.	157	117	39	0	0
5290 misc. mineral prod.	507	418	88	1	0
Subtotal primary iron and steel products	2,064	2,019	44	0	0
5312 pig iron	15	6	10	—	—
5315 ferro alloys	3	2	1	0	—
5320 i&s primary forms	1,322	1,321	1	—	—
5330 i&s plates & sheets	378	367	11	—	0
5360 i&s bars & shapes	95	91	5	0	0

LOS ANGELES HARBOR, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
5370 i&s pipe & tube	215	200	15	0	—
5390 primary i&s nec	35	33	2	0	—
Subtotal primary non-ferrous metal products	856	699	155	1	1
5421 copper	63	32	31	—	—
5422 aluminum	74	23	51	0	0
5429 smelted prod. nec	27	12	16	—	—
5480 fab. metal products	692	633	57	1	0
Subtotal primary wood products	107	99	8	0	—
5540 primary wood prod.	107	99	8	0	—
Total food and farm products	4,168	2,121	2,017	13	17
Subtotal fish	193	153	39	1	0
6134 fish (not shellfish)	65	48	17	1	0
6136 shellfish	128	105	22	0	0
Subtotal grain	79	64	14	1	0
6241 wheat	0	—	0	—	—
6344 corn	11	0	10	1	—
6442 rice	66	63	2	0	0
6443 barley & rye	1	0	0	0	0
6445 oats	1	0	0	1	—
6447 sorghum grains	1	—	1	—	—
Subtotal oilseeds	35	8	27	1	0
6521 peanuts	2	—	2	—	—
6522 soybeans	14	0	14	—	—
6534 flaxseed	1	—	0	1	—
6590 oilseeds nec	19	8	11	0	0
Subtotal vegetable products	319	152	163	3	0
6653 vegetable oils	52	32	20	—	0
6654 vegetables & prod.	267	120	144	3	0
Subtotal processed grain and animal feed	600	79	517	2	3
6746 wheat flour	4	1	3	0	—
6747 grain mill products	70	35	33	2	0
6781 hay & fodder	328	0	327	0	0
6782 animal feed, prep.	199	43	154	0	3
Subtotal other agricultural products	2,942	1,667	1,257	5	13
6811 meat, fresh, frozen	375	225	149	1	0
6817 meat, prepared	20	6	14	0	0
6822 dairy products	36	15	21	0	0
6835 fish, prepared	67	60	5	1	0
6838 tallow, animal oils	27	2	26	—	—
6839 animals & prod. nec	99	43	56	0	0
6856 bananas & plantains	599	599	0	—	—
6857 fruit & nuts nec	472	163	309	0	0
6858 fruit juices	151	114	37	1	0
6861 sugar	1	1	0	—	—
6865 molasses	46	46	—	—	—
6871 coffee	70	63	4	0	2
6872 cocoa beans	10	10	0	—	—
6885 alcoholic beverages	243	176	62	0	4
6888 water & ice	68	52	11	0	5
6889 food products nec	179	80	99	0	0
6891 tobacco & products	28	2	26	—	—
6893 cotton	430	1	430	—	0
6894 natural fibers nec	1	1	0	—	—
6899 farm products nec	18	8	9	1	0
Total all manufactured equipment, machinery and products	7,403	6,381	1,013	7	3
7110 machinery (not elec)	886	886	258	2	0
7120 electrical machinery	1,546	1,369	176	0	0
7210 vehicles & parts	816	663	153	0	0
7220 aircraft & parts	4	1	3	0	0
7230 ships & boats	4	1	3	0	—
7300 ordnance & access.	6	1	5	—	—
7400 manufac. wood prod.	98	76	19	3	0
7500 textile products	895	796	98	0	0
7600 rubber & plastic pr.	742	594	146	0	2
7900 manufac. prod. nec	2,406	2,253	152	1	0
Total unknown or not elsewhere classified	65	36	28	0	1
9900 unknown or nec	65	36	28	0	1

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	13,195	9,632	2,236	114	546	667
Total petroleum and petroleum products	9,480	6,990	1,208	113	539	632
Subtotal crude petroleum	3,148	2,897	33	39	105	74
2100 crude petroleum	3,148	2,897	33	39	105	74
Subtotal petroleum products	6,333	4,092	1,175	74	434	557
2211 gasoline	1,865	1,665	168	21	—	11
2330 distillate fuel oil	1,899	1,345	541	2	1	9
2340 residual fuel oil	2,338	883	438	51	431	536
2350 lube oil & greases	117	107	7	—	2	1
2429 naphtha & solvents	22	16	6	—	—	—
2430 asphalt, tar & pitch	77	72	4	—	—	—
2640 liquid natural gas	0	—	0	—	—	—
2990 petro. products nec	15	4	10	—	—	—

LOS ANGELES HARBOR, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Receipts	Internal	
		Receipts	Shipments		Shipments	Intraport
Total chemicals and related products	517	464	53	---	0	---
Subtotal fertilizers	5	2	3	---	---	---
3110 nitrogenous fert.	2	2	---	---	---	---
3190 fert. & mixes nec	3	---	3	---	---	---
Subtotal other chemicals and related products	512	462	50	---	0	---
3220 alcohols	4	---	4	---	---	---
3274 sodium hydroxide	140	135	5	---	---	---
3275 inorg. elem., oxides, & halogen salts	0	---	0	---	---	---
3281 radioactive material	0	0	---	---	---	---
3282 pigments & paints	12	0	12	---	---	---
3284 medicines	4	0	4	---	---	---
3285 perfumes & cleansers	23	0	23	---	---	---
3286 plastics	0	---	0	---	---	---
3291 pesticides	1	---	1	---	---	---
3293 explosives	1	---	1	---	---	---
3297 chemical additives	310	310	---	---	---	---
3298 wood & resin chem.	17	17	---	---	---	---
3299 chem. products nec	0	0	---	---	0	---
Total crude materials, inedible except fuels	1,881	1,827	50	---	4	---
Subtotal forest products, wood and chips	60	35	25	---	---	---
4189 lumber	59	35	24	---	---	---
4190 forest products nec	1	---	1	---	---	---
Subtotal pulp and waste paper	0	0	0	---	---	---
4225 pulp & waste paper	0	0	0	---	---	---
Subtotal soil, sand, gravel, rock and stone	1,789	1,774	14	---	0	---
4331 sand & gravel	1,788	1,774	13	---	0	---
4338 soil & fill dirt	1	0	1	---	---	---
Subtotal iron ore and scrap	24	18	6	---	---	---
4420 iron & steel scrap	24	18	6	---	---	---
Subtotal sulphur, clay and salt	4	---	---	---	4	---
4782 clay & refrac. mat.	4	---	---	---	4	---
Subtotal other non-metal. min.	4	0	4	---	---	---
4900 non-metal. min. nec	4	0	4	---	---	---
Total primary manufactured goods	146	5	140	---	0	0
Subtotal paper products	35	0	35	---	---	---
5110 newsprint	0	---	0	---	---	---
5120 paper & paperboard	12	0	12	---	---	---
5190 paper products nec	23	0	23	---	---	---
Subtotal lime, cement and glass	46	0	46	---	0	0
5220 cement & concrete	11	---	11	---	---	---
5240 glass & glass prod.	0	---	0	---	---	---
5290 misc. mineral prod.	35	0	35	---	0	0
Subtotal primary iron and steel products	0	---	0	---	0	---
5370 i&s pipe & tube	0	---	0	---	0	---
Subtotal primary non-ferrous metal products	60	5	55	---	0	---
5480 fab. metal products	60	5	55	---	0	---
Subtotal primary wood products	4	---	4	---	---	---
5540 primary wood prod.	4	---	4	---	---	---
Total food and farm products	530	144	349	---	1	35
Subtotal fish	3	1	1	---	---	---
6134 fish (not shellfish)	3	1	1	---	---	---
Subtotal grain	0	0	0	---	---	---
6442 rice	0	0	0	---	---	---
Subtotal vegetable products	47	5	42	---	---	---
6654 vegetables & prod.	47	5	42	---	---	---
Subtotal processed grain and animal feed	19	1	17	---	---	---
6746 wheat flour	8	---	8	---	---	---
6747 grain mill products	2	---	2	---	---	---
6781 hay & fodder	1	---	1	---	---	---
6782 animal feed, prep.	8	1	7	---	---	---
Subtotal other agricultural products	462	137	288	---	1	35
6811 meat, fresh, frozen	35	0	35	---	---	---
6822 dairy products	10	0	10	---	---	---
6839 animals & prod. nec	3	2	1	---	---	---
6856 bananas & plantains	8	---	8	---	---	---
6857 fruit & nuts nec	6	0	6	---	---	---
6858 fruit juices	78	76	2	---	---	---
6861 sugar	0	0	0	---	---	---
6865 molasses	75	40	---	---	---	35
6871 coffee	1	0	1	---	---	---
6885 alcoholic beverages	80	0	80	---	---	---
6887 groceries	17	0	17	---	---	---
6888 water & ice	2	---	0	---	1	0
6889 food products nec	139	14	125	---	---	---
6891 tobacco & products	2	0	2	---	---	---
6899 farm products nec	5	4	0	---	---	---
Total all manufactured equipment, machinery and products	639	201	434	1	2	0
7110 machinery (not elec)	59	24	35	0	---	---
7120 electrical machinery	17	1	16	---	---	---
7210 vehicles & parts	87	35	52	---	---	---
7220 aircraft & parts	0	0	0	---	---	---
7230 ships & boats	1	0	1	---	---	---
7400 manufac. wood prod.	8	3	5	---	---	---
7500 textile products	20	11	9	---	---	---
7600 rubber & plastic pr.	7	2	5	---	---	---
7900 manufac. prod. nec	440	125	312	1	2	0

LOS ANGELES HARBOR, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Inraport
Total unknown or not elsewhere classified	2	0	2	---	---	---
9900 unknown or nec	2	0	2	---	---	---

*Includes 695 (x1000) tons of foreign inbound in-transits; Includes 134 (x1000) tons of foreign outbound in-transits;
Includes 47 (x1000) tons of Canadian inbound in-transits; Includes 19 (x1000) tons of Canadian outbound in-transits.

PORT HUENEME, CA

Section Included: Harbor at Port Hueneme. Project Depths: 40 feet in approach channel; 36 feet in entrance channel; 35 feet in Channel Basin and Channel A. Controlling Depth: 40 feet in approach channel; 36 feet in entrance channel; 35 feet in Central Basin and Channel A.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	623	1991	416	1994	814	1997	988
1989	749	1992	474	1995	1,076		
1990	574	1993	696	1996	943		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Domestic				
		Imports*	Exports*	Total	Coastwise		Internal	
					Receipts	Shipments	Receipts	Shipments
Total, all commodities	988	733	173	82	42	29	4	7
Total petroleum and petroleum products	40	---	0	40	40	---	---	---
Subtotal petroleum products	40	---	0	40	40	---	---	---
2340 residual fuel oil	40	---	---	40	40	---	---	---
2640 liquid natural gas	0	---	0	---	---	---	---	---
Total chemicals and related products	2	0	2	---	---	---	---	---
Subtotal fertilizers	0	0	0	---	---	---	---	---
3110 nitrogenous fert.	0	---	0	---	---	---	---	---
3130 potassic fert.	0	---	0	---	---	---	---	---
3190 fert. & mixes nec	0	0	0	---	---	---	---	---
Subtotal other chemicals and related products	2	0	2	---	---	---	---	---
3211 acyclic hydrocarbons	0	---	0	---	---	---	---	---
3219 other hydrocarbons	0	---	0	---	---	---	---	---
3230 carboxylic acids	0	---	0	---	---	---	---	---
3240 nitrogen func. comp.	0	---	0	---	---	---	---	---
3275 inorg. elem. oxides, & halogen salts	0	---	0	---	---	---	---	---
3276 metallic salts	0	---	0	---	---	---	---	---
3282 pigments & paints	0	0	0	---	---	---	---	---
3284 medicines	0	---	0	---	---	---	---	---
3285 perfumes & cleansers	0	0	0	---	---	---	---	---
3286 plastics	1	0	1	---	---	---	---	---
3291 pesticides	0	---	0	---	---	---	---	---
3292 starches, gluten, glue	0	---	0	---	---	---	---	---
3299 chem. products nec	0	---	0	---	---	---	---	---
Total crude materials, inedible except fuels	49	48	1	---	---	---	---	---
Subtotal forest products, wood and chips	1	0	1	---	---	---	---	---
4170 wood in the rough	0	---	0	---	---	---	---	---
4189 lumber	1	0	0	---	---	---	---	---
4190 forest products nec	0	0	---	---	---	---	---	---
Subtotal pulp and waste paper	48	48	0	---	---	---	---	---
4225 pulp & waste paper	48	48	0	---	---	---	---	---
Subtotal soil, sand, gravel, rock and stone	0	---	0	---	---	---	---	---
4331 sand & gravel	0	---	0	---	---	---	---	---
Subtotal non-ferrous ores and scrap	0	---	0	---	---	---	---	---
4670 manganese ore	0	---	0	---	---	---	---	---
4690 non-ferrous ores nec	0	---	0	---	---	---	---	---
Subtotal sulphur, clay and salt	0	---	0	---	---	---	---	---
4782 clay & refrac. mat.	0	---	0	---	---	---	---	---
Total primary manufactured goods	18	15	3	0	0	0	---	---
Subtotal paper products	2	---	2	---	---	---	---	---
5120 paper & paperboard	2	---	2	---	---	---	---	---
5190 paper products nec	0	---	0	---	---	---	---	---

PORT HUENEME, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Domestic				
		Imports*	Exports*	Total	Coastwise		Internal	
					Receipts	Shipments	Receipts	Shipments
Subtotal lime, cement and glass	0	0	0	---	---	---	---	---
5240 glass & glass prod.	0	0	0	---	---	---	---	---
5290 misc. mineral prod.	0	0	0	---	---	---	---	---
Subtotal primary iron and steel products	11	10	---	0	0	0	---	---
5315 ferro alloys	1	1	---	---	---	---	---	---
5330 i&s plates & sheets	9	9	---	---	---	---	---	---
5360 i&s bars & shapes	0	0	---	---	---	---	---	---
5370 i&s pipe & tube	0	0	---	0	0	0	---	---
Subtotal primary non-ferrous metal products	0	0	0	0	0	0	---	---
5421 copper	0	---	0	---	---	---	---	---
5422 aluminum	0	---	0	---	---	---	---	---
5429 smelted prod. nec	0	---	0	---	---	---	---	---
5480 fab. metal products	0	0	0	0	0	0	---	---
Subtotal primary wood products	4	4	0	---	---	---	---	---
5540 primary wood prod.	4	4	0	---	---	---	---	---
Total food and farm products	583	432	151	---	---	---	---	---
Subtotal fish	3	3	---	---	---	---	---	---
6134 fish (not shellfish)	1	1	---	---	---	---	---	---
6136 shellfish	2	2	---	---	---	---	---	---
Subtotal grain	0	---	0	---	---	---	---	---
6442 rice	0	---	0	---	---	---	---	---
Subtotal vegetable products	2	0	1	---	---	---	---	---
6653 vegetable oils	0	0	---	---	---	---	---	---
6654 vegetables & prod.	1	0	1	---	---	---	---	---
Subtotal processed grain and animal feed	1	---	1	---	---	---	---	---
6747 grain mill products	0	---	0	---	---	---	---	---
6782 animal feed, prep.	1	---	1	---	---	---	---	---
Subtotal other agricultural products	578	429	149	---	---	---	---	---
6811 meat, fresh, frozen	0	0	0	---	---	---	---	---
6817 meat, prepared	0	---	0	---	---	---	---	---
6822 dairy products	0	---	0	---	---	---	---	---
6835 fish, prepared	0	0	---	---	---	---	---	---
6839 animals & prod. nec	0	---	0	---	---	---	---	---
6856 bananas & plantains	410	410	---	---	---	---	---	---
6857 fruit & nuts nec	162	17	145	---	---	---	---	---
6858 fruit juices	1	1	0	---	---	---	---	---
6871 coffee	1	1	0	---	---	---	---	---
6885 alcoholic beverages	1	0	1	---	---	---	---	---
6889 food products nec	0	0	0	---	---	---	---	---
6893 cotton	2	---	2	---	---	---	---	---
6899 farm products nec	0	---	0	---	---	---	---	---
Total all manufactured equipment, machinery and products	295	237	16	42	2	29	4	7
7110 machinery (not elec)	65	22	2	42	2	29	4	7
7120 electrical machinery	1	1	0	---	---	---	---	---
7210 vehicles & parts	213	203	10	---	---	---	---	---
7220 aircraft & parts	0	0	---	---	---	---	---	---
7230 ships & boats	11	11	0	---	---	---	---	---
7300 ordnance & access.	0	0	0	---	---	---	---	---
7400 manufac. wood prod.	0	0	0	---	---	---	---	---
7500 textile products	1	0	1	---	---	---	---	---
7600 rubber & plastic pr.	2	1	1	---	---	---	---	---
7900 manufac. prod. nec	2	0	1	---	---	---	---	---
Total unknown or not elsewhere classified	1	1	0	---	---	---	---	---
9900 unknown or nec	1	1	0	---	---	---	---	---

*Includes 158 (x1000) tons of foreign inbound in-transits; Includes 0 (x1000) tons of foreign outbound in-transits.

Other Harbors and Waterways 1997

Harbor or Waterway Project	Commodity	Thousand Short Tons
MISSION BAY, CA	No Commerce Reported	
MORRO BAY HARBOR, CA	No Commerce Reported	
NEWPORT BAY HARBOR, CA	No Commerce Reported	
REDONDO BEACH, CA	7600 rubber & plastic pr.	0
	Total Tons(x1000)	0
SANTA BARBARA HARBOR, CA	No Commerce Reported	
Non-project		
ELLWOOD, CA	2100 crude petroleum	268
	2211 gasoline	0
	2340 residual fuel oil	18
	5370 i&s pipe & tube	0
	5480 fab. metal products	0
	6781 hay & fodder	0
	7110 machinery (not elec)	31
	7210 vehicles & parts	0
	7900 manufac. prod. nec	2
	8900 waste and scrap nec	0
	Total Tons(x1000)	320

SACRAMENTO RIVER, CA (INCLUDING COMMERCE OF SACRAMENTO RIVER DEEPWATER SHIP CHANNEL AND THE PORT OF SACRAMENTO, CA)

Section Included: From mouth of river to Red Bluff via river route, a distance of 248 miles; from mouth of Cache Slough to Washington Lake via Sacramento River Deepwater Ship Channel, a distance of 29.9 miles. Controlling Depth: Mouth of river to Cache Slough, 29 feet; mouth of Cache Slough to Washington Lake via Sacramento River Deepwater Ship Channel, 29 feet.; mouth of Cache Slough to Sacramento via river route, 10 feet; Sacramento to Colusa, 6 feet in low water season; Colusa to Chico Landing, 3 feet., Chico Landing to Red Bluff, 1.5 feet. Project Depth: 30 feet from mouth of river to Cache Slough; 30 feet from Cache Slough to Washington Lake via Sacramento River Deepwater Ship Channel; 10 feet from mouth of Cache Slough to Sacramento via river route; 6 feet from Sacramento to Colusa; 5 feet. from Colusa to Chico Landing; such depths as practicable from Chico Landing to Red Bluff.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	1,520	1991	1,335	1994	1,573	1997	1,178
1989	1,440	1992	1,160	1995	1,171		
1990	1,574	1993	1,094	1996	1,289		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			Internal Inbound Upbound
		Imports	Exports	Imports	Total	Coastwise		
					Receipts	Shipments		
Total, all commodities	1,178	195	775	38	171	134	1	35
Total petroleum and petroleum products	0	---	0	---	---	---	---	---
Subtotal petroleum products	0	---	0	---	---	---	---	---
2350 lube oil & greases	0	---	0	---	---	---	---	---
Total chemicals and related products	343	167	3	38	135	134	1	---
Subtotal fertilizers	206	145	0	25	35	35	---	---
3110 nitrogenous fert.	157	96	---	25	35	35	---	---
3190 fert. & mixes nec	49	49	0	---	49	---	---	---
Subtotal other chemicals and related products	137	21	2	13	100	99	1	---
3219 other hydrocarbons	0	---	0	---	---	---	---	---
3230 carboxylic acids	0	0	0	---	---	---	---	---
3240 nitrogen func. comp.	0	0	0	---	---	---	---	---
3250 organo-inorganic comp.	0	---	0	---	---	---	---	---
3260 organic comp. nec	4	4	0	---	---	---	---	---
3272 sulphuric acid	0	---	---	---	0	---	0	---
3273 ammonia	125	13	---	13	99	99	0	---
3274 sodium hydroxide	1	---	---	---	1	---	1	---
3275 inorg. elem., oxides, & halogen salts	0	---	0	---	---	---	---	---
3276 metallic salts	5	5	0	---	---	---	---	---
3282 pigments & paints	0	---	0	---	---	---	---	---
3283 coloring mat. nec	0	---	0	---	---	---	---	---
3284 medicines	0	0	0	---	---	---	---	---
3285 perfumes & cleansers	0	---	0	---	---	---	---	---
3286 plastics	1	0	1	---	---	---	---	---
3291 pesticides	0	---	0	---	---	---	---	---
3292 starches, gluten, glue	0	0	0	---	---	---	---	---
3297 chemical additives	0	---	0	---	---	---	---	---
3299 chem. products nec	0	---	0	---	---	---	---	---
Total crude materials, inedible except fuels	369	---	334	---	35	---	---	35
Subtotal forest products, wood and chips	322	---	322	---	---	---	---	---
4161 wood chips	309	---	309	---	---	---	---	---
4170 wood in the rough	13	---	13	---	---	---	---	---
4189 lumber	0	---	0	---	---	---	---	---
4190 forest products nec	0	---	0	---	---	---	---	---
Subtotal pulp and waste paper	0	---	0	---	---	---	---	---
4225 pulp & waste paper	0	---	0	---	---	---	---	---
Subtotal soil, sand, gravel, rock and stone	28	---	0	---	28	---	---	28
4331 sand & gravel	28	---	0	---	28	---	---	28
Subtotal iron ore and scrap	0	---	0	---	---	---	---	---
4420 iron & steel scrap	0	---	0	---	---	---	---	---
Subtotal marine shells	7	---	---	---	7	---	---	7
4515 marine shells	7	---	---	---	7	---	---	7
Subtotal non-ferrous ores and scrap	0	---	0	---	---	---	---	---
4690 non-ferrous ores nec	0	---	0	---	---	---	---	---
Subtotal sulphur, clay and salt	12	---	12	---	---	---	---	---
4782 clay & refrac. mat.	12	---	12	---	---	---	---	---
Total primary manufactured goods	26	24	2	---	---	---	---	---
Subtotal paper products	8	8	0	---	---	---	---	---
5110 newsprint	8	8	0	---	---	---	---	---
5120 paper & paperboard	0	0	0	---	---	---	---	---
5190 paper products nec	0	0	0	---	---	---	---	---

SACRAMENTO RIVER, CA (INCLUDING COMMERCE OF SACRAMENTO RIVER DEEPWATER SHIP CHANNEL AND THE PORT OF SACRAMENTO, CA)
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			Internal Inbound Upbound
		Imports	Exports	Imports	Total	Coastwise		
					Receipts	Shipments		
Subtotal lime, cement and glass	1	1	0	---	---	---	---	---
5240 glass & glass prod.	1	1	0	---	---	---	---	---
5290 misc. mineral prod.	1	0	0	---	---	---	---	---
Subtotal primary iron and steel products	15	15	---	---	---	---	---	---
5330 i&s plates & sheets	15	15	---	---	---	---	---	---
5390 primary i&s nec	0	0	---	---	---	---	---	---
Subtotal primary non-ferrous metal products	1	0	1	---	---	---	---	---
5421 copper	0	---	0	---	---	---	---	---
5422 aluminum	0	0	0	---	---	---	---	---
5429 smelted prod. nec	1	---	1	---	---	---	---	---
5480 fab. metal products	0	0	0	---	---	---	---	---
Total food and farm products	433	1	432	---	---	---	---	---
Subtotal grain	411	---	411	---	---	---	---	---
6241 wheat	12	---	12	---	---	---	---	---
6442 rice	399	---	399	---	---	---	---	---
Subtotal oilseeds	19	---	19	---	---	---	---	---
6590 oilseeds nec	19	---	19	---	---	---	---	---
Subtotal vegetable products	0	0	0	---	---	---	---	---
6654 vegetables & prod.	0	0	0	---	---	---	---	---
Subtotal processed grain and animal feed	0	0	0	---	---	---	---	---
6747 grain mill products	0	---	0	---	---	---	---	---
6781 hay & fodder	0	---	0	---	---	---	---	---
6782 animal feed, prep.	0	0	0	---	---	---	---	---
Subtotal other agricultural products	2	1	1	---	---	---	---	---
6811 meat, fresh, frozen	0	---	0	---	---	---	---	---
6857 fruit & nuts nec	1	---	1	---	---	---	---	---
6858 fruit juices	0	---	0	---	---	---	---	---
6871 coffee	0	0	---	---	---	---	---	---
6885 alcoholic beverages	1	0	0	---	---	---	---	---
6888 water & ice	1	1	---	---	---	---	---	---
6889 food products nec	0	0	0	---	---	---	---	---
6899 farm products nec	0	---	0	---	---	---	---	---
Total all manufactured equipment, machinery and products	8	3	5	---	---	---	---	---
7110 machinery (not elec)	1	0	1	---	---	---	---	---
7120 electrical machinery	0	0	0	---	---	---	---	---
7210 vehicles & parts	4	3	2	---	---	---	---	---
7220 aircraft & parts	0	---	0	---	---	---	---	---
7230 ships & boats	0	---	0	---	---	---	---	---
7400 manufac. wood prod.	0	0	0	---	---	---	---	---
7500 textile products	1	0	1	---	---	---	---	---
7600 rubber & plastic pr.	1	0	1	---	---	---	---	---
7900 manufac. prod. nec	0	0	0	---	---	---	---	---
Ton-miles (x1000)	98,305	16,751	66,619	3,284	11,651	11,565	86	0

Tons All Traffic (x1000) 1,178
Ton-miles All Traffic (x1000) 98,305

SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, CA (INCLUDED IN SACRAMENTO RIVER, CA)

Section Included: A Deepwater Ship Channel from Suisun Bay to the Inland Harbor at Sacramento, a distance of 43 miles; a triangular shaped deep draft harbor and turning basin located at West Sacramento; a 1.5 mile-long barge canal with navigation lock connecting the deep draft harbor with the Sacramento River. Controlling Depth: 29 feet in the Deepwater Ship Channel and triangular shaped harbor and turning basin; 13 feet in the barge canal. Project Depth: 30 feet in the Deepwater Ship Channel and triangular shaped harbor and turning basin; 13 feet in the barge canal.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	1,398	1991	1,197	1994	1,542	1997	1,143
1989	1,287	1992	1,136	1995	1,131		
1990	1,359	1993	1,078	1996	1,240		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Imports	Exports	Imports	Total	Coastwise	
					Receipts	Shipments	
Total, all commodities	1,143	195	775	38	135	134	1
Total petroleum and petroleum products	0	---	0	---	---	---	---
Subtotal petroleum products	0	---	0	---	---	---	---
2350 lube oil & greases	0	---	0	---	---	---	---

SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, CA (INCLUDED IN SACRAMENTO RIVER, CA)
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Imports	Exports	Imports	Total	Coastwise	
						Receipts	Shipments
Total chemicals and related products	343	167	3	38	135	134	1
Subtotal fertilizers	206	145	0	25	35	35	—
3110 nitrogenous fert.	157	96	—	25	35	35	—
3190 fert. & mixes nec	49	49	0	—	—	—	—
Subtotal other chemicals and related products	137	21	2	13	100	99	1
3219 other hydrocarbons	0	—	0	—	—	—	—
3230 carboxylic acids	0	0	0	—	—	—	—
3240 nitrogen func. comp.	0	0	0	—	—	—	—
3250 organo-inorganic comp.	0	—	0	—	—	—	—
3260 organic comp. nec	4	4	0	—	—	—	—
3272 sulphuric acid	0	—	—	—	0	—	0
3273 ammonia	125	13	—	13	99	99	0
3274 sodium hydroxide	1	—	—	—	1	—	1
3275 inorg. elem.oxides, & halogen salts	0	—	0	—	—	—	—
3276 metallic salts	5	5	0	—	—	—	—
3282 pigments & paints	0	—	0	—	—	—	—
3283 coloring mat. nec	0	—	0	—	—	—	—
3284 medicines	0	0	0	—	—	—	—
3285 perfumes & cleansers	0	—	0	—	—	—	—
3286 plastics	1	0	1	—	—	—	—
3291 pesticides	0	—	0	—	—	—	—
3292 starches, gluten, glue	0	0	0	—	—	—	—
3297 chemical additives	0	—	0	—	—	—	—
3299 chem. products nec	0	—	0	—	—	—	—
Total crude materials, inedible except fuels	334	—	334	—	—	—	—
Subtotal forest products, wood and chips	322	—	322	—	—	—	—
4161 wood chips	309	—	309	—	—	—	—
4170 wood in the rough	13	—	13	—	—	—	—
4189 lumber	0	—	0	—	—	—	—
4190 forest products nec	0	—	0	—	—	—	—
Subtotal pulp and waste paper	0	—	0	—	—	—	—
4225 pulp & waste paper	0	—	0	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	0	—	0	—	—	—	—
4331 sand & gravel	0	—	0	—	—	—	—
Subtotal iron ore and scrap	0	—	0	—	—	—	—
4420 iron & steel scrap	0	—	0	—	—	—	—
Subtotal non-ferrous ores and scrap	0	—	0	—	—	—	—
4690 non-ferrous ores nec	0	—	0	—	—	—	—
Subtotal sulphur, clay and salt	12	—	12	—	—	—	—
4782 clay & refrac. mat.	12	—	12	—	—	—	—
Total primary manufactured goods	26	24	2	—	—	—	—
Subtotal paper products	8	8	0	—	—	—	—
5110 newsprint	8	8	0	—	—	—	—
5120 paper & paperboard	0	0	0	—	—	—	—
5190 paper products nec	0	0	0	—	—	—	—
Subtotal lime, cement and glass	1	1	0	—	—	—	—
5240 glass & glass prod.	1	1	0	—	—	—	—
5290 misc. mineral prod.	1	0	0	—	—	—	—
Subtotal primary iron and steel products	15	15	—	—	—	—	—
5330 i&s plates & sheets	15	15	—	—	—	—	—
5390 primary i&s nec	0	0	—	—	—	—	—
Subtotal primary non-ferrous metal products	1	0	1	—	—	—	—
5421 copper	0	—	0	—	—	—	—
5422 aluminum	0	0	0	—	—	—	—
5429 smelted prod. nec	1	—	1	—	—	—	—
5480 fab. metal products	0	0	0	—	—	—	—
Total food and farm products	433	1	432	—	—	—	—
Subtotal grain	411	—	411	—	—	—	—
6241 wheat	12	—	12	—	—	—	—
6442 rice	399	—	399	—	—	—	—
Subtotal oilseeds	19	—	19	—	—	—	—
6590 oilseeds nec	19	—	19	—	—	—	—
Subtotal vegetable products	0	0	0	—	—	—	—
6654 vegetables & prod.	0	0	0	—	—	—	—
Subtotal processed grain and animal feed	0	0	0	—	—	—	—
6747 grain mill products	0	—	0	—	—	—	—
6781 hay & fodder	0	—	0	—	—	—	—
6782 animal feed, prep.	0	0	0	—	—	—	—
Subtotal other agricultural products	2	1	1	—	—	—	—
6811 meat, fresh, frozen	0	—	0	—	—	—	—
6857 fruit & nuts nec	1	—	1	—	—	—	—
6858 fruit juices	0	—	0	—	—	—	—
6871 coffee	0	0	—	—	—	—	—
6885 alcoholic beverages	1	0	0	—	—	—	—
6888 water & ice	1	1	—	—	—	—	—
6889 food products nec	0	0	0	—	—	—	—
6899 farm products nec	0	—	0	—	—	—	—
Total all manufactured equipment, machinery and products	8	3	5	—	—	—	—
7110 machinery (not elec)	1	0	1	—	—	—	—
7120 electrical machinery	0	0	0	—	—	—	—
7210 vehicles & parts	4	3	2	—	—	—	—

SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, CA (INCLUDED IN SACRAMENTO RIVER, CA)
 Freight Traffic 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Imports	Exports		Imports	Total	Coastwise
				Receipts			Shipments
7220 aircraft & parts	0	—	0	—	—	—	—
7230 ships & boats	0	—	0	—	—	—	—
7400 manufac. wood prod.	0	0	0	—	—	—	—
7500 textile products	1	0	1	—	—	—	—
7600 rubber & plastic pr.	1	0	1	—	—	—	—
7900 manufac. prod. nec	0	0	0	—	—	—	—
Ton-miles (x1000)	46,866	7,986	31,760	1,566	5,554	5,513	41

Tons All Traffic (x1000) **1,143**
Ton-miles All Traffic (x1000) **46,866**

SACRAMENTO, CA (INCLUDED IN SACRAMENTO RIVER, CA)

Section Included: A triangular shaped harbor and turning basin at Washington Lake, West Sacramento, adjacent to channel; a connecting barge canal to the Sacramento River shallow draft channel; thence upstream to a point approximately 6.6 miles upstream at Bryte. Controlling Depth: 29 feet in the deepwater channel harbor and turning basin; 13 feet in the connecting barge canal; 10 feet in the shallow draft channel. Project Depth: 30 feet in the deepwater channel harbor and turning basin; 13 feet in the connecting barge canal; 10 feet in the shallow draft channel.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	1,443	1991	1,226	1994	1,545	1997	1,143
1989	1,295	1992	1,136	1995	1,137		
1990	1,485	1993	1,078	1996	1,240		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Imports	Exports		Imports	Total	Coastwise
				Receipts			Shipments
Total, all commodities	1,143	195	775	38	135	134	1
Total petroleum and petroleum products	0	—	0	—	—	—	—
Subtotal petroleum products	0	—	0	—	—	—	—
2350 lube oil & greases	0	—	0	—	—	—	—
Total chemicals and related products	343	167	3	38	135	134	1
Subtotal fertilizers	206	145	0	25	35	35	—
3110 nitrogenous fert.	157	96	—	25	35	35	—
3190 fert. & mixes nec	49	49	0	—	—	—	—
Subtotal other chemicals and related products	137	21	2	13	100	99	1
3219 other hydrocarbons	0	—	0	—	—	—	—
3230 carboxylic acids	0	0	0	—	—	—	—
3240 nitrogen func. comp.	0	0	0	—	—	—	—
3250 organo-inorganic comp.	0	—	0	—	—	—	—
3260 organic comp. nec	4	4	0	—	—	—	—
3272 sulphuric acid	0	—	—	—	0	—	0
3273 ammonia	125	13	—	13	99	99	0
3274 sodium hydroxide	1	—	—	—	1	—	1
3275 inorg. elem. oxides, & halogen salts	0	—	0	—	—	—	—
3276 metallic salts	5	5	0	—	—	—	—
3282 pigments & paints	0	—	0	—	—	—	—
3283 coloring mat. nec	0	—	0	—	—	—	—
3284 medicines	0	0	0	—	—	—	—
3285 perfumes & cleansers	0	—	0	—	—	—	—
3286 plastics	1	0	1	—	—	—	—
3291 pesticides	0	—	0	—	—	—	—
3292 starches, gluten, glue	0	0	0	—	—	—	—
3297 chemical additives	0	—	0	—	—	—	—
3299 chem. products nec	0	—	0	—	—	—	—
Total crude materials, inedible except fuels	334	—	334	—	—	—	—
Subtotal forest products, wood and chips	322	—	322	—	—	—	—
4161 wood chips	309	—	309	—	—	—	—
4170 wood in the rough	13	—	13	—	—	—	—
4189 lumber	0	—	0	—	—	—	—
4190 forest products nec	0	—	0	—	—	—	—
Subtotal pulp and waste paper	0	—	0	—	—	—	—
4225 pulp & waste paper	0	—	0	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	0	—	0	—	—	—	—
4331 sand & gravel	0	—	0	—	—	—	—
Subtotal iron ore and scrap	0	—	0	—	—	—	—
4420 iron & steel scrap	0	—	0	—	—	—	—
Subtotal non-ferrous ores and scrap	0	—	0	—	—	—	—
4690 non-ferrous ores nec	0	—	0	—	—	—	—
Subtotal sulphur, clay and salt	12	—	12	—	—	—	—
4782 clay & refrac. mat.	12	—	12	—	—	—	—

SACRAMENTO, CA (INCLUDED IN SACRAMENTO RIVER, CA)
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Imports	Exports	Imports	Total	Coastwise	
						Receipts	Shipments
Total primary manufactured goods	26	24	2	---	---	---	---
Subtotal paper products	8	8	0	---	---	---	---
5110 newsprint	8	8	0	---	---	---	---
5120 paper & paperboard	0	0	0	---	---	---	---
5190 paper products nec	0	0	0	---	---	---	---
Subtotal lime, cement and glass	1	1	0	---	---	---	---
5240 glass & glass prod.	1	1	0	---	---	---	---
5290 misc. mineral prod.	1	0	0	---	---	---	---
Subtotal primary iron and steel products	15	15	---	---	---	---	---
5330 i&s plates & sheets	15	15	---	---	---	---	---
5390 primary i&s nec	0	0	---	---	---	---	---
Subtotal primary non-ferrous metal products	1	0	1	---	---	---	---
5421 copper	0	---	0	---	---	---	---
5422 aluminum	0	0	0	---	---	---	---
5429 smelted prod. nec	1	---	1	---	---	---	---
5480 fab. metal products	0	0	0	---	---	---	---
Total food and farm products	433	1	432	---	---	---	---
Subtotal grain	411	---	411	---	---	---	---
6241 wheat	12	---	12	---	---	---	---
6442 rice	399	---	399	---	---	---	---
Subtotal oilseeds	19	---	19	---	---	---	---
6590 oilseeds nec	19	---	19	---	---	---	---
Subtotal vegetable products	0	0	0	---	---	---	---
6654 vegetables & prod.	0	0	0	---	---	---	---
Subtotal processed grain and animal feed	0	0	0	---	---	---	---
6747 grain mill products	0	---	0	---	---	---	---
6781 hay & fodder	0	---	0	---	---	---	---
6782 animal feed, prep.	0	0	0	---	---	---	---
Subtotal other agricultural products	2	1	1	---	---	---	---
6811 meat, fresh, frozen	0	---	0	---	---	---	---
6857 fruit & nuts nec	1	---	1	---	---	---	---
6858 fruit juices	0	---	0	---	---	---	---
6871 coffee	0	0	---	---	---	---	---
6885 alcoholic beverages	1	0	0	---	---	---	---
6888 water & ice	1	1	---	---	---	---	---
6889 food products nec	0	0	0	---	---	---	---
6899 farm products nec	0	---	0	---	---	---	---
Total all manufactured equipment, machinery and products	8	3	5	---	---	---	---
7110 machinery (not elec)	1	0	1	---	---	---	---
7120 electrical machinery	0	0	0	---	---	---	---
7210 vehicles & parts	4	3	2	---	---	---	---
7220 aircraft & parts	0	---	0	---	---	---	---
7230 ships & boats	0	---	0	---	---	---	---
7400 manufac. wood prod.	0	0	0	---	---	---	---
7500 textile products	1	0	1	---	---	---	---
7600 rubber & plastic pr.	1	0	1	---	---	---	---
7900 manufac. prod. nec	0	0	0	---	---	---	---

SAN JOAQUIN RIVER, CA (INCLUDING COMMERCE OF PORT OF STOCKTON, CA)

Section Included: From mouth of New York Slough to city of Stockton, 41 miles; from Stockton Channel to Hills Ferry, 84 miles. Controlling Depth: mouth of river to Mormon Channel, Stockton, 35 feet; other connecting channels, 2 feet to 9 feet; to Edison Street, 22 feet. Project Depth: 35 feet from the mouth of New York Slough to Mormon Channel at Stockton; 30 feet from Mormon Channel to Edison Street; other connecting channels, 9 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	3,284	1991	3,345	1994	3,337	1997	3,292
1989	3,819	1992	3,530	1995	3,315		
1990	3,491	1993	2,493	1996	2,716		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic				
		Imports	Exports	Imports*	Total	Coastwise Receipts	Internal		
							Upbound	Intra Downbnd	
Total, all commodities	3,292	1,635	1,082	248	328	123	71	5	130
Total coal	74	---	74	---	---	---	---	---	---
1100 coal lignite	74	---	74	---	---	---	---	---	---

SAN JOAQUIN RIVER, CA (INCLUDING COMMERCE OF PORT OF STOCKTON, CA
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic				
		Imports	Exports	Imports*	Total	Coastwise	Internal		
					Receipts		Inbound	Intra	Downbnd
						Upbound	Upbound		
Total petroleum and petroleum products	587	---	587	---	---	---	---	---	---
Subtotal petroleum products	587	---	587	---	---	---	---	---	---
2540 petroleum coke	587	---	587	---	---	---	---	---	---
Total chemicals and related products	661	291	0	248	123	118	---	5	---
Subtotal fertilizers	338	265	---	---	74	69	---	5	---
3110 nitrogenous fert.	311	237	---	---	74	69	---	5	---
3190 fert. & mixes nec	28	28	---	---	---	---	---	---	---
Subtotal other chemicals and related products	323	26	0	248	49	49	---	---	---
3220 alcohols	0	---	0	---	---	---	---	---	---
3273 ammonia	282	12	---	236	35	35	---	---	---
3274 sodium hydroxide	29	3	0	12	14	14	---	---	---
3276 metallic salts	11	11	---	---	---	---	---	---	---
3282 pigments & paints	0	---	0	---	---	---	---	---	---
3292 starches, gluten, glue	0	0	---	---	---	---	---	---	---
Total crude materials, inedible except fuels	733	359	244	---	130	---	0	---	130
Subtotal forest products, wood and chips	0	---	---	---	0	---	0	---	---
4170 wood in the rough	0	---	---	---	0	---	0	---	---
Subtotal pulp and waste paper	0	---	0	---	---	---	---	---	---
4225 pulp & waste paper	0	---	0	---	---	---	---	---	---
Subtotal soil, sand, gravel, rock and stone	488	354	4	---	130	---	---	---	130
4323 gypsum	354	354	---	---	---	---	---	---	---
4327 phosphate rock	4	---	4	---	---	---	---	---	---
4331 sand & gravel	130	---	---	---	130	---	---	---	130
Subtotal iron ore and scrap	34	---	34	---	---	---	---	---	---
4420 iron & steel scrap	34	---	34	---	---	---	---	---	---
Subtotal non-ferrous ores and scrap	3	3	---	---	---	---	---	---	---
4680 non-ferrous scrap	3	3	---	---	---	---	---	---	---
4690 non-ferrous ores nec	1	1	---	---	---	---	---	---	---
Subtotal sulphur, clay and salt	206	---	206	---	---	---	---	---	---
4741 sulphur, (dry)	206	---	206	---	---	---	---	---	---
Subtotal other non-metal. min.	1	1	---	---	---	---	---	---	---
4900 non-metal. min. nec	1	1	---	---	---	---	---	---	---
Total primary manufactured goods	862	829	32	---	1	---	1	---	---
Subtotal paper products	0	---	0	---	---	---	---	---	---
5190 paper products nec	0	---	0	---	---	---	---	---	---
Subtotal lime, cement and glass	1	---	0	---	1	---	1	---	---
5240 glass & glass prod.	0	---	0	---	---	---	---	---	---
5290 misc. mineral prod.	1	---	---	---	1	---	1	---	---
Subtotal primary iron and steel products	861	829	32	---	---	---	---	---	---
5330 i&s plates & sheets	826	826	---	---	---	---	---	---	---

SAN JOAQUIN RIVER, CA (INCLUDING COMMERCE OF PORT OF STOCKTON, CA
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic				
		Imports	Exports	Imports*	Total	Coastwise	Internal		
					Receipts		Inbound	Intra	
						Upbound	Upbound	Downbnd	
5370 i&s pipe & tube	36	4	32	---	---	---	---	---	---
Subtotal primary non-ferrous metal products	0	---	0	---	---	---	---	---	---
5480 fab. metal products	0	---	0	---	---	---	---	---	---
Total food and farm products	369	155	145	---	70	---	70	---	---
Subtotal grain	123	---	123	---	---	---	---	---	---
6241 wheat	68	---	68	---	---	---	---	---	---
6442 rice	55	---	55	---	---	---	---	---	---
Subtotal oilseeds	35	16	19	---	---	---	---	---	---
6590 oilseeds nec	35	16	19	---	---	---	---	---	---
Subtotal processed grain and animal feed	0	---	0	---	---	---	---	---	---
6782 animal feed, prep.	0	---	0	---	---	---	---	---	---
Subtotal other agricultural products	211	138	3	---	70	---	70	---	---
6838 tallow, animal oils	2	---	2	---	---	---	---	---	---
6857 fruit & nuts nec	0	---	0	---	---	---	---	---	---
6865 molasses	208	138	---	---	70	---	70	---	---
6889 food products nec	0	---	0	---	---	---	---	---	---
6891 tobacco & products	0	---	0	---	---	---	---	---	---
Total all manufactured equipment, machinery and products	6	1	0	---	5	5	---	---	---
7110 machinery (not elec)	0	---	0	---	---	---	---	---	---
7120 electrical machinery	0	---	0	---	---	---	---	---	---
7210 vehicles & parts	1	1	0	---	---	---	---	---	---
7500 textile products	0	---	0	---	---	---	---	---	---
7600 rubber & plastic pr.	0	---	0	---	---	---	---	---	---
7800 empty containers	5	---	---	---	5	5	---	---	---
7900 manufac. prod. nec	0	---	0	---	---	---	---	---	---
Total unknown or not elsewhere classified	0	---	0	---	---	---	---	---	---
9900 unknown or nec	0	---	0	---	---	---	---	---	---
Ton-miles (x1000)	73,084	21,401	33,080	9,919	8,684	4,572	2,940	5	1,166
Tons All Traffic (x1000)				3,292					
Ton-miles All Traffic (x1000)				73,084					

*Includes 15 (x1000) tons of Canadian inbound in-transits.

STOCKTON, CA (INCLUDED IN SAN JOAQUIN RIVER, CA)

Section Included: Harbor at Stockton (and vicinity). Controlling Depth: 35 feet in Stockton Channel up to mouth of Mormon Channel; 8 feet in Mormon Channel; 8 feet in Fremont Channel, McLeod Lake and in the head of Stockton Channel. Project Depth: (Included in San Joaquin River project).

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	1,375	1991	1,491	1994	1,609	1997	1,647
1989	2,138	1992	1,719	1995	1,320		
1990	1,732	1993	1,103	1996	1,143		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			
		Imports	Exports	Imports*	Total	Coastwise	Internal	
					Receipts	Receipts	Intraport	
Total, all commodities	1,647	447	780	236	184	109	70	5
Total petroleum and petroleum products	369	---	369	---	---	---	---	---
Subtotal petroleum products	369	---	369	---	---	---	---	---
2540 petroleum coke	369	---	369	---	---	---	---	---
Total chemicals and related products	632	288	---	236	109	104	---	5
Subtotal fertilizers	338	265	---	---	74	69	---	5
3110 nitrogenous fert.	311	237	---	---	74	69	---	5
3190 fert. & mixes nec	28	28	---	---	---	---	---	---
Subtotal other chemicals and related products	294	23	---	236	35	35	---	---
3273 ammonia	282	12	---	236	35	35	---	---
3276 metallic salts	11	11	---	---	---	---	---	---
Total crude materials, inedible except fuels	245	1	244	---	---	---	---	---
Subtotal soil, sand, gravel, rock and stone	4	---	4	---	---	---	---	---
4327 phosphate rock	4	---	4	---	---	---	---	---
Subtotal iron ore and scrap	34	---	34	---	---	---	---	---
4420 iron & steel scrap	34	---	34	---	---	---	---	---
Subtotal sulphur, clay and salt	206	---	206	---	---	---	---	---
4741 sulphur, (dry)	206	---	206	---	---	---	---	---
Subtotal other non-metal. min.	1	1	---	---	---	---	---	---
4900 non-metal. min. nec	1	1	---	---	---	---	---	---
Total primary manufactured goods	36	4	32	---	---	---	---	---
Subtotal lime, cement and glass	0	---	0	---	---	---	---	---
5240 glass & glass prod.	0	---	0	---	---	---	---	---
Subtotal primary iron and steel products	36	4	32	---	---	---	---	---
5370 i&s pipe & tube	36	4	32	---	---	---	---	---
Subtotal primary non-ferrous metal products	0	---	0	---	---	---	---	---
5480 fab. metal products	0	---	0	---	---	---	---	---
Total food and farm products	360	155	135	---	70	---	70	---
Subtotal grain	123	---	123	---	---	---	---	---
6241 wheat	68	---	68	---	---	---	---	---
6442 rice	55	---	55	---	---	---	---	---
Subtotal oilseeds	25	16	9	---	---	---	---	---
6590 oilseeds nec	25	16	9	---	---	---	---	---
Subtotal other agricultural products	211	138	3	---	70	---	70	---
6838 tallow, animal oils	2	---	2	---	---	---	---	---
6857 fruit & nuts nec	0	---	0	---	---	---	---	---
6865 molasses	208	138	---	---	70	---	70	---
6891 tobacco & products	0	---	0	---	---	---	---	---
Total all manufactured equipment, machinery and products	5	---	0	---	5	5	---	---
7110 machinery (not elec)	0	---	0	---	---	---	---	---
7120 electrical machinery	0	---	0	---	---	---	---	---
7210 vehicles & parts	0	---	0	---	---	---	---	---
7500 textile products	0	---	0	---	---	---	---	---
7800 empty containers	5	---	---	---	5	5	---	---
7900 manufac. prod. nec	0	---	0	---	---	---	---	---
Total unknown or not elsewhere classified	0	---	0	---	---	---	---	---
9900 unknown or nec	0	---	0	---	---	---	---	---

*Includes 15 (x1000) tons of Canadian inbound in-transits.

Other Harbors and Waterways 1997

Harbor or Waterway Project	Commodity	Thousand Short Tons
MIDDLE RIVER, CA	No Commerce Reported	
MOKELUMNE RIVER, CA	No Commerce Reported	
OLD RIVER, CA	No Commerce Reported	

TOTAL WATERBORNE COMMERCE OF THE SAN FRANCISCO BAY AND DELTA AREAS, CA

Freight Traffic, 1997
(thousand short tons)

Locality	*Foreign		Domestic				Total	Percent	Through Traffic
	Imports	Exports	Coastwise		Internal				
			Receipts	Shipmnts	Receipts Shipmnts	Intraport			
ALVISO SLOUGH, CA	---	---	---	---	---	---	0.00	---	
BERKELEY, CA	---	---	---	---	---	---	0.00	---	
CARQUINEZ STRAIT, CA	2,652	1,505	3,459	1,149	4,811	289	13,865	19.73	6,556
COYOTE HILL SLOUGH, CA	---	---	---	---	---	---	---	0.00	---
NAPA RIVER, CA	---	---	---	---	51	---	51	0.07	---
NEWARK SLOUGH, CA	---	---	---	---	---	---	---	0.00	---
OAKLAND HARBOR, CA	3,090	5,441	295	1,155	876	1	10,858	15.45	---
OTHER SAN FRANCISCO BAY	219	274	4,795	178	5,884	148	11,497	16.36	---
AREA PORTS, CA	---	---	---	---	---	---	---	---	---
PETALUMA RIVER, CA	---	---	---	---	216	---	216	0.31	---
REDWOOD CITY HARBOR, CA	347	350	11	399	188	---	1,293	1.84	---
RICHMOND HARBOR, CA	3,447	1,774	12,817	2,067	1,452	149	21,706	30.88	---
SACRAMENTO RIVER, CA	233	775	134	1	35	---	1,178	1.68	---
SAN FRANCISCO HARBOR, CA	330	312	---	---	362	---	1,003	1.43	---
SAN JOAQUIN RIVER, CA**	1,883	1,082	123	---	71	135	3,292	4.68	---
SAN PABLO BAY AND MARE	149	132	1,062	913	549	72	2,878	4.09	19,603
ISLAND STRAIT, CA	---	---	---	---	---	---	---	0.00	---
SAN RAFAEL CREEK, CA	---	---	---	---	---	---	---	0.00	---
SUISUN BAY CHANNEL, CA	149	433	42	524	1,295	---	2,443	3.48	4,308
SUISUN CHANNEL, CA	---	---	---	---	---	---	---	0.00	---
TOTAL (UNADJUSTED)	12,497	12,078	22,738	6,385	15,789	794	70,281	---	30,466
PERCENT (UNADJUSTED)	17.78	17.19	32.35	9.08	22.47	1.13	---	100.00	---
NET VOLUME OF TONNAGE	12,497	12,078	22,738	6,385	7,895	794	62,386	---	---
FOR THE AREA***	---	---	---	---	---	---	---	---	---
PERCENT (ADJUSTED)	20.03	19.36	36.45	10.23	12.65	1.27	---	100.00	---

* Not included in the total tonnage of the Bay and Delta Areas.

** Tributaries to San Joaquin River include Mokelumne, Middle, and Old Rivers.

*** Adjusted to net volume by excluding duplication of internal traffic moved between ports and waterways of the San Francisco Bay and Delta Areas.

SAN FRANCISCO BAY ENTRANCE, CA

Section Included: Main ship channel. Controlling Depth: Main ship channel, 55.0 feet. Project Depth: Main ship channel, 55 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	60,887	1991	61,150	1994	67,220	1997	53,698
1989	64,058	1992	67,119	1995	61,356		
1990	61,599	1993	65,727	1996	59,850		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Through		Through		Total	Coastwise	
		Upbound	Downbnd	Upbound	Downbnd		Upbound	Downbnd
Total, all commodities	53,698	11,668	11,941	830	137	29,122	22,738	6,385
Total coal	391	283	109	---	---	---	---	---
1100 coal lignite	109	1	109	---	---	---	---	---
1200 coal coke	282	282	0	---	---	---	---	---
Total petroleum and petroleum products	34,751	3,954	4,434	9	56	26,298	21,506	4,793
Subtotal crude petroleum	22,771	2,776	7	---	---	19,988	19,783	205
2100 crude petroleum	22,771	2,776	7	---	---	19,988	19,783	205
Subtotal petroleum products	11,980	1,178	4,427	9	56	6,310	1,723	4,587
2211 gasoline	3,135	0	205	---	13	2,917	347	2,570
2221 kerosene	180	74	90	---	16	---	---	---
2330 distillate fuel oil	2,336	54	294	9	---	1,979	816	1,164
2340 residual fuel oil	3,369	31	2,091	---	27	1,219	545	674
2350 lube oil & greases	218	0	65	---	---	153	8	144
2410 petro. jelly & waxes	15	14	1	---	---	0	---	0
2429 naphtha & solvents	1,466	1,005	425	---	---	36	6	30
2430 asphalt, tar & pitch	314	---	314	---	---	---	---	---
2540 petroleum coke	940	---	940	---	---	---	---	---
2640 liquid natural gas	1	---	0	---	---	0	0	0
2990 petro. products nec	5	---	---	---	---	5	0	5
Total chemicals and related products	3,698	1,713	479	768	0	737	649	88
Subtotal fertilizers	660	505	14	25	---	116	105	11
3110 nitrogenous fert.	555	425	0	25	---	104	104	---
3120 phosphatic fert.	0	---	0	---	---	---	---	---
3130 potassic fert.	0	---	0	---	---	0	---	0
3190 fert. & mixes nec	105	80	13	---	---	12	1	11
Subtotal other chemicals and related products	3,037	1,208	465	743	0	621	544	77
3211 acyclic hydrocarbons	30	0	14	---	---	15	---	15

SAN FRANCISCO BAY ENTRANCE, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Through		Through		Total	Coastwise	
		Upbound	Downbnd	Upbound	Downbnd		Upbound	Downbnd
3212 benzene & toluene	23	5	0	—	—	18	18	—
3219 other hydrocarbons	53	2	18	—	—	32	6	26
3220 alcohols	235	3	15	216	—	0	0	0
3230 carboxylic acids	17	4	13	—	—	1	1	—
3240 nitrogen func. comp.	13	4	9	—	—	—	—	—
3250 organo-inorganic comp.	11	3	8	—	—	0	0	—
3260 organic comp. nec	1,241	980	8	247	—	6	6	0
3271 sulphur (liquid)	1	0	1	—	—	—	—	—
3272 sulphuric acid	1	0	0	—	—	0	—	0
3273 ammonia	487	43	61	249	—	134	134	0
3274 sodium hydroxide	216	13	1	32	—	170	170	1
3275 inorg. elem. oxides, & halogen salts	28	13	12	—	—	2	1	1
3276 metallic salts	46	23	23	—	0	—	—	—
3279 inorganic chem. nec	2	1	1	—	—	—	—	—
3281 radioactive material	2	0	1	—	—	0	0	—
3282 pigments & paints	37	2	27	—	—	7	0	7
3283 coloring mat. nec	2	1	1	—	—	—	—	—
3284 medicines	9	2	6	—	—	1	0	1
3285 perfumes & cleansers	62	5	41	0	—	15	0	15
3286 plastics	138	37	92	0	0	8	6	2
3291 pesticides	3	0	2	—	—	1	—	1
3292 starches, gluten, glue	61	36	25	—	—	0	0	—
3293 explosives	2	1	0	—	—	0	—	0
3297 chemical additives	262	0	65	—	—	196	196	—
3298 wood & resin chem.	7	0	1	—	—	6	3	3
3299 chem. products nec	53	27	20	—	—	5	2	3
Total crude materials, inedible except fuels	4,024	982	2,499	17	79	446	32	414
Subtotal forest products, wood and chips	540	104	429	0	—	7	0	7
4110 rubber & gums	2	0	1	—	—	—	—	—
4150 fuel wood	3	0	1	—	—	1	—	1
4161 wood chips	328	0	328	—	—	—	—	—
4170 wood in the rough	66	5	61	—	—	—	—	—
4189 lumber	126	88	33	0	—	5	0	5
4190 forest products nec	16	10	6	—	—	1	—	1
Subtotal pulp and waste paper	577	2	553	—	—	23	19	4
4225 pulp & waste paper	577	2	553	—	—	23	19	4
Subtotal soil, sand, gravel, rock and stone	835	805	12	17	—	1	0	0
4310 building stone	1	0	0	—	—	—	—	—
4322 limestone	17	0	0	17	—	—	—	—
4323 gypsum	807	804	3	—	—	0	0	0
4327 phosphate rock	4	—	4	—	—	—	—	—
4331 sand & gravel	6	1	5	—	—	0	0	0
4338 soil & fill dirt	0	—	—	—	—	0	—	0
Subtotal iron ore and scrap	1,080	0	1,078	—	—	2	2	—
4410 iron ore	0	0	—	—	—	—	—	—
4420 iron & steel scrap	1,080	0	1,078	—	—	2	2	—
Subtotal marine shells	0	0	0	—	—	—	—	—
4515 marine shells	0	0	0	—	—	—	—	—
Subtotal non-ferrous ores and scrap	143	68	75	0	—	0	0	—
4630 copper ore	0	0	0	—	—	—	—	—
4650 aluminum ore	63	61	2	—	—	—	—	—
4680 non-ferrous scrap	74	4	69	0	—	0	0	—
4690 non-ferrous ores nec	7	3	4	—	—	—	—	—
Subtotal sulphur, clay and salt	246	0	245	—	—	0	0	—
4741 sulphur, (dry)	220	—	220	—	—	—	—	—
4782 clay & refrac. mat.	25	0	25	—	—	0	0	—
Subtotal slag	11	0	1	—	—	11	11	—
4860 slag	11	0	1	—	—	11	11	—
Subtotal other non-metal. min.	591	3	106	—	79	402	—	402
4900 non-metal. min. nec	591	3	106	—	79	402	—	402
Total primary manufactured goods	2,182	1,773	295	33	0	81	4	77
Subtotal paper products	241	115	70	33	—	23	1	23
5110 newsprint	102	69	0	33	—	0	—	0
5120 paper & paperboard	92	32	47	0	—	13	0	13
5190 paper products nec	46	14	23	0	—	10	0	10
Subtotal lime, cement and glass	292	186	90	0	0	16	0	15
5220 cement & concrete	42	33	8	—	—	2	—	2
5240 glass & glass prod.	79	38	40	0	0	1	0	1
5290 misc. mineral prod.	171	115	43	0	—	13	0	13
Subtotal primary iron and steel products	1,333	1,272	54	—	—	8	0	7
5312 pig iron	5	0	5	—	—	0	0	—
5315 ferro alloys	1	0	0	—	—	—	—	—
5320 i&s primary forms	1	0	1	—	—	—	—	—
5330 i&s plates & sheets	1,147	1,140	7	—	—	0	0	0
5360 i&s bars & shapes	77	69	2	—	—	7	0	7
5370 i&s pipe & tube	88	54	34	—	—	1	—	1
5390 primary i&s nec	14	9	5	—	—	—	—	—

SAN FRANCISCO BAY ENTRANCE, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Through		Through		Total	Coastwise	
		Upbound	Downbnd	Upbound	Downbnd		Upbound	Downbnd
Subtotal primary non-ferrous metal products	285	193	60	0	0	31	3	29
5421 copper	24	4	20	—	—	0	0	0
5422 aluminum	19	8	11	—	—	0	0	0
5429 smelted prod. nec	10	2	7	—	—	0	0	—
5480 fab. metal products	232	179	22	0	0	31	2	29
Subtotal primary wood products	32	7	21	0	—	3	0	3
5540 primary wood prod.	32	7	21	0	—	3	0	3
Total food and farm products	6,365	1,682	3,680	2	1	1,001	432	569
Subtotal fish	45	7	37	0	—	2	1	1
6134 fish (not shellfish)	15	3	10	—	—	1	0	1
6136 shellfish	30	3	26	0	—	1	1	—
Subtotal grain	777	52	677	0	—	48	1	47
6241 wheat	110	0	110	—	—	0	0	0
6344 corn	13	0	12	—	—	1	1	—
6442 rice	653	52	554	—	—	47	—	47
6443 barley & rye	0	0	0	—	—	—	—	—
6445 oats	0	0	—	0	—	—	—	—
6447 sorghum grains	0	—	0	—	—	—	—	—
Subtotal oilseeds	103	35	67	—	—	0	—	0
6521 peanuts	0	—	0	—	—	—	—	—
6522 soybeans	11	0	10	—	—	—	—	—
6590 oilseeds nec	92	35	57	—	—	0	—	0
Subtotal vegetable products	883	349	471	0	0	63	3	61
6653 vegetable oils	352	270	82	0	—	0	—	0
6654 vegetables & prod.	531	78	389	0	0	63	3	60
Subtotal processed grain and animal feed	492	26	440	0	—	26	3	23
6746 wheat flour	11	1	2	0	—	9	0	8
6747 grain mill products	69	20	49	0	—	1	0	1
6781 hay & fodder	195	0	193	—	—	2	1	1
6782 animal feed, prep.	216	5	196	—	—	15	2	13
Subtotal other agricultural products	4,065	1,214	1,988	1	1	861	425	436
6811 meat, fresh, frozen	599	64	477	—	0	58	1	56
6817 meat, prepared	29	3	21	—	—	4	0	4
6822 dairy products	81	5	57	—	—	19	0	19
6835 fish, prepared	13	9	4	0	—	—	—	—
6838 tallow, animal oils	37	0	37	—	—	—	—	—
6839 animals & prod. nec	158	10	134	—	—	13	9	4
6856 bananas & plantains	1	1	0	—	—	1	—	1
6857 fruit & nuts nec	598	12	529	0	0	56	1	55
6858 fruit juices	302	157	99	0	0	46	46	0
6861 sugar	708	413	1	—	—	295	294	1
6865 molasses	203	140	1	—	—	62	62	—
6871 coffee	70	62	4	—	—	4	3	2
6872 cocoa beans	10	9	0	—	—	—	—	—
6885 alcoholic beverages	507	251	197	1	0	58	0	57
6887 groceries	65	—	—	—	—	65	0	65
6888 water & ice	23	22	1	—	—	—	—	—
6889 food products nec	369	44	183	0	—	142	3	139
6891 tobacco & products	55	1	50	—	—	4	3	1
6893 cotton	185	0	185	—	—	0	—	0
6894 natural fibers nec	0	0	0	—	—	0	—	0
6899 farm products nec	53	9	9	0	0	35	2	33
Total all manufactured equipment, machinery and products	2,236	1,266	431	0	0	539	109	430
7110 machinery (not elec)	318	165	97	0	0	56	20	35
7120 electrical machinery	455	394	58	0	0	3	0	3
7210 vehicles & parts	399	166	114	—	0	118	21	97
7220 aircraft & parts	1	0	1	0	—	0	0	0
7230 ships & boats	2	1	1	—	—	0	0	0
7300 ordnance & access.	3	0	2	0	—	0	0	—
7400 manufac. wood prod.	67	34	27	0	0	6	5	2
7500 textile products	127	100	24	0	—	4	2	3
7600 rubber & plastic pr.	113	70	39	0	0	4	0	4
7800 empty containers	5	—	—	—	—	5	5	—
7900 manufac. prod. nec	745	337	67	0	0	341	56	285
Total unknown or not elsewhere classified	51	15	15	0	—	20	6	14
9900 unknown or nec	51	15	15	0	—	20	6	14

SAN FRANCISCO HARBOR, CA

Section Included: From Fort Point to San Francisco Airport on the west side of the San Francisco Bay. Controlling Depth: Main ship channel, 55.0 feet; Presidio Shoal, 34.1 feet; Black Point Shoal, 35.5 feet; Rincon Reef Rock (inner), 41 feet; Rincon Reef (outer), 42.5 feet; Blossom Rock, 40 feet; Alcatraz Shoal, 34.5 feet; Arch Rock, 36.2 feet; Harding Rocks, 36.7 feet; Shag Rocks 1 and 2, 36.9 feet; Point Knox Shoal, 38.2 feet, Islais Creek Shoal, 38.2 feet; channel and basin at San Francisco Airport, 6.8 feet in the maintained 200-foot wide southerly portion; 8 feet in the maintained portion of turning basin, 8.6 feet to seaplane ramp. Project Depth: 55 feet in entrance channel across the bar; 40 feet across Presidio Shoal, Black Point Shoal, Blossom Rock, Rincon Reef Rock, and a portion of Alcatraz Shoal; 37 feet across Arch, Shag, and Harding Rocks; 35 feet across Racoon Shoal, and the western part of Point Knox Shoal; 35 feet across Islais Creek Shoal; 10 feet to the San Francisco Airport.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	2,275	1991	2,898	1994	1,739	1997	1,003
1989	3,359	1992	3,198	1995	1,330		
1990	2,297	1993	2,340	1996	1,982		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports*	Exports*	Imports*	Exports	Total	Internal	
							Receipts	Shipments
Total, all commodities	1,003	298	279	33	32	362	338	24
Total petroleum and petroleum products	303	40	189	---	32	42	18	24
Subtotal crude petroleum	22	---	---	---	---	22	---	22
2100 crude petroleum	22	---	---	---	---	22	---	22
Subtotal petroleum products	281	40	189	---	32	20	18	2
2211 gasoline	13	---	---	---	13	---	---	---
2221 kerosene	40	40	---	---	---	---	---	---
2330 distillate fuel oil	48	---	48	---	---	---	---	---
2340 residual fuel oil	144	---	105	---	19	20	18	2
2350 lube oil & greases	0	---	0	---	---	---	---	---
2410 petro. jelly & waxes	0	---	0	---	---	---	---	---
2429 naphtha & solvents	0	---	0	---	---	---	---	---
2430 asphalt, tar & pitch	14	---	14	---	---	---	---	---
2540 petroleum coke	22	---	22	---	---	---	---	---
Total chemicals and related products	132	129	3	---	---	---	---	---
Subtotal fertilizers	1	0	1	---	---	---	---	---
3190 fert. & mixes nec	1	0	1	---	---	---	---	---
Subtotal other chemicals and related products	130	129	2	---	---	---	---	---
3220 alcohols	0	0	---	---	---	---	---	---
3230 carboxylic acids	0	0	0	---	---	---	---	---
3240 nitrogen func. comp.	0	---	0	---	---	---	---	---
3250 organo-inorganic comp.	0	---	0	---	---	---	---	---
3260 organic comp. nec	125	125	0	---	---	---	---	---
3275 inorg. elem. oxides, & halogen salts	0	---	0	---	---	---	---	---
3276 metallic salts	1	1	0	---	---	---	---	---
3282 pigments & paints	0	0	0	---	---	---	---	---
3283 coloring mat. nec	0	0	---	---	---	---	---	---
3284 medicines	0	0	0	---	---	---	---	---
3285 perfumes & cleansers	0	0	0	---	---	---	---	---
3286 plastics	0	0	0	---	---	---	---	---
3291 pesticides	0	0	0	---	---	---	---	---
3292 starches, gluten, glue	0	0	0	---	---	---	---	---
3297 chemical additives	0	---	0	---	---	---	---	---
3299 chem. products nec	2	2	0	---	---	---	---	---
Total crude materials, inedible except fuels	366	34	13	0	---	320	320	---
Subtotal forest products, wood and chips	34	33	1	0	---	---	---	---
4161 wood chips	1	---	1	---	---	---	---	---
4170 wood in the rough	0	---	0	---	---	---	---	---
4189 lumber	33	33	0	0	---	---	---	---
4190 forest products nec	0	0	0	---	---	---	---	---
Subtotal pulp and waste paper	2	---	2	---	---	---	---	---
4225 pulp & waste paper	2	---	2	---	---	---	---	---
Subtotal soil, sand, gravel, rock and stone	320	---	0	---	---	320	320	---
4310 building stone	0	---	0	---	---	---	---	---
4323 gypsum	0	---	0	---	---	---	---	---
4331 sand & gravel	320	---	---	---	---	320	320	---
Subtotal iron ore and scrap and scrap	8	0	8	---	---	---	---	---
4410 iron ore	0	0	---	---	---	---	---	---
4420 iron & steel scrap	8	---	8	---	---	---	---	---
Subtotal non-ferrous ores and scrap	0	0	0	---	---	---	---	---
4680 non-ferrous scrap	0	0	---	---	---	---	---	---
4690 non-ferrous ores nec	0	0	0	---	---	---	---	---
Subtotal sulphur, clay and salt	0	---	0	---	---	---	---	---
4782 clay & refrac. mat.	0	---	0	---	---	---	---	---
Subtotal other non-metal. min.	1	---	1	---	---	---	---	---
4900 non-metal. min. nec	1	---	1	---	---	---	---	---

SAN FRANCISCO HARBOR, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports*	Exports*	Imports*	Exports	Total	Internal	
							Receipts	Shipments
Total primary manufactured goods	49	11	6	32	0	0	0	---
Subtotal paper products	34	2	0	32	---	---	---	---
5110 newsprint	34	2	---	32	---	---	---	---
5120 paper & paperboard	0	---	0	---	---	---	---	---
5190 paper products nec	0	0	0	0	---	---	---	---
Subtotal lime, cement and glass	6	2	5	---	0	0	---	---
5240 glass & glass prod.	1	0	1	---	---	---	---	---
5290 misc. mineral prod.	5	1	3	---	0	0	---	---
Subtotal primary iron and steel products	4	4	0	---	---	---	---	---
5320 i&s primary forms	0	---	0	---	---	---	---	---
5330 i&s plates & sheets	3	3	---	---	---	---	---	---
5370 i&s pipe & tube	0	0	0	---	---	---	---	---
5390 primary i&s nec	0	0	---	---	---	---	---	---
Subtotal primary non-ferrous metal products	3	2	1	0	0	0	---	---
5421 copper	0	---	0	---	---	---	---	---
5422 aluminum	0	---	0	---	---	---	---	---
5429 smelted prod. nec	1	1	0	---	---	---	---	---
5480 fab. metal products	2	2	0	0	0	0	---	---
Subtotal primary wood products	2	2	0	0	---	---	---	---
5540 primary wood prod.	2	2	0	0	---	---	---	---
Total food and farm products	128	68	60	1	0	---	---	---
Subtotal fish	1	0	0	---	---	---	---	---
6134 fish (not shellfish)	1	0	0	---	---	---	---	---
6136 shellfish	0	0	0	---	---	---	---	---
Subtotal grain	20	0	20	0	---	---	---	---
6344 corn	1	---	1	---	---	---	---	---
6442 rice	20	0	20	---	---	---	---	---
6445 oats	0	---	---	0	---	---	---	---
Subtotal oilseeds	0	0	0	---	---	---	---	---
6590 oilseeds nec	0	0	0	---	---	---	---	---
Subtotal vegetable products	7	4	3	---	---	---	---	---
6653 vegetable oils	0	---	0	---	---	---	---	---
6654 vegetables & prod.	6	4	2	---	---	---	---	---
Subtotal processed grain and animal feed	1	1	1	---	---	---	---	---
6747 grain mill products	1	1	0	---	---	---	---	---
6781 hay & fodder	0	---	0	---	---	---	---	---
6782 animal feed, prep.	0	---	0	---	---	---	---	---
Subtotal other agricultural products	99	62	36	1	0	---	---	---
6811 meat, fresh, frozen	1	1	0	---	---	---	---	---
6817 meat, prepared	1	1	0	---	---	---	---	---
6822 dairy products	1	---	1	---	---	---	---	---
6835 fish, prepared	2	1	1	---	---	---	---	---
6838 tallow, animal oils	27	---	27	---	---	---	---	---
6839 animals & prod. nec	0	0	0	---	---	---	---	---
6856 bananas & plantains	0	0	---	---	---	---	---	---
6857 fruit & nuts nec	3	2	1	0	---	---	---	---
6858 fruit juices	17	17	0	---	---	---	---	---
6861 sugar	0	0	---	---	---	---	---	---
6871 coffee	19	19	0	---	---	---	---	---
6872 cocoa beans	1	1	---	---	---	---	---	---
6885 alcoholic beverages	21	19	1	0	---	---	---	---
6888 water & ice	0	0	0	---	---	---	---	---
6889 food products nec	2	1	1	---	---	---	---	---
6891 tobacco & products	0	0	---	---	---	---	---	---
6893 cotton	3	---	3	---	---	---	---	---
6899 farm products nec	0	0	0	0	0	---	---	---
Total all manufactured equipment, machinery and products	26	16	9	---	---	---	---	---
7110 machinery (not elec)	4	0	4	---	---	---	---	---
7120 electrical machinery	2	0	1	---	---	---	---	---
7210 vehicles & parts	14	12	2	---	---	---	---	---
7220 aircraft & parts	0	---	0	---	---	---	---	---
7230 ships & boats	0	0	0	---	---	---	---	---
7400 manufac. wood prod.	0	0	0	---	---	---	---	---
7500 textile products	1	0	0	---	---	---	---	---
7600 rubber & plastic pr.	1	1	0	---	---	---	---	---
7900 manufac. prod. nec	4	3	1	---	---	---	---	---
Total unknown or not elsewhere classified	0	0	0	---	---	---	---	---
9900 unknown or nec	0	0	0	---	---	---	---	---

*Includes 2 (x1000) tons of foreign inbound in-transits; Includes 6 (x1000) tons of foreign outbound in-transits;
Includes 0 (x1000) tons of Canadian inbound in-transits.

REDWOOD CITY HARBOR, CA

Section Included: San Bruno Shoal channel 500 feet wide and about 4 miles long across; Redwood City Harbor channel, a channel from deep water in San Francisco Bay to Steinberger Slough. Controlling Depth: 30.8 feet in San Bruno Shoal channel; 29.8 feet in San Francisco Bay to Beacon No.8; 29.7 feet to Beacon No.15 and beginning of (outer) Turning Basin No.1; 29.5 feet in Turning Basin No.1; 29.5 feet in Turning Basin No.1; 28.5 feet to (upper) Turning Basin No.2; 29.1 in turning basin. Project Depth: 30 feet in San Bruno Shoal Channel; 30 feet to the head of the turning basin in Redwood Creek; 5 feet to Steinberger Slough, and 4 feet in Steinberger Slough.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	747	1991	507	1994	846	1997	1,293
1989	945	1992	816	1995	754		
1990	499	1993	1,829	1996	985		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			
		Imports	Exports*	Exports	Coastwise		Internal Receipts	
					Total	Receipts		Shipments
Total, all commodities	1,293	347	270	80	597	11	399	188
Total chemicals and related products	0	---	---	0	---	---	---	---
Subtotal other chemicals and related products	0	---	---	0	---	---	---	---
3276 metallic salts	0	---	---	0	---	---	---	---
Total crude materials, inedible except fuels	1,261	314	270	79	597	11	399	188
Subtotal forest products, wood and chips	0	---	---	---	0	---	---	0
4170 wood in the rough	0	---	---	---	0	---	---	0
Subtotal soil, sand, gravel, rock and stone	502	314	---	---	188	---	---	188
4323 gypsum	314	314	---	---	---	---	---	---
4331 sand & gravel	188	---	---	---	188	---	---	188
Subtotal iron ore and scrap	270	---	270	---	---	---	---	---
4420 iron & steel scrap	270	---	270	---	---	---	---	---
Subtotal slag	11	---	---	---	11	11	---	---
4860 slag	11	---	---	---	11	11	---	---
Subtotal other non-metal. min.	478	---	---	79	399	---	399	---
4900 non-metal. min. nec	478	---	---	79	399	---	399	---
Total primary manufactured goods	32	32	---	---	---	---	---	---
Subtotal lime, cement and glass	32	32	---	---	---	---	---	---
5220 cement & concrete	32	32	---	---	---	---	---	---

*Includes 36 (x1000) tons of foreign outbound in-transits.

OAKLAND HARBOR, CA

Section Included: Outer and inner harbor from deep water in San Francisco Bay to San Leandro Bay, a distance of 8.5 miles. Controlling Depth: 37.1 feet in the entrance channel of the outer harbor to Bart Tube; 34.5 to Albers Mill; 34.7 to Shed 5; 34.8 feet in the entrance channel to the inner harbor; 34.4 feet in inner harbor to foot of Ferro Street; 34.2 feet to Posey Tube; 34.0 feet at Posey; Tube; 34.5 feet to Fortmann Basin; 24.0 feet to Park Street Bridge; 15.3 feet in tidal canal to Fruitvale Avenue Bridge; 14.4 feet in tidal canal to San Leandro Bay; 7 feet in north channel of Brooklyn Basin. Project Depth: 35 feet in the entrance channel to the outer harbor; 35 feet in the outer harbor; 35 feet in the entrance channel to the inner harbor; 35 feet in the inner harbor to the Park Street bridge; 25 feet in the tidal canal to San Leandro Bay; 35 feet for a distance of 1,300 feet thence 25 feet in north channel of Brooklyn Basin (maintained 18 feet).

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	10,141	1991	10,356	1994	12,914	1997	10,858
1989	10,000	1992	13,211	1995	13,224		
1990	10,290	1993	12,734	1996	11,230		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports
Total, all commodities	8,531	3,084	5,440	5	1
Total coal	6	1	5	---	---
1100 coal lignite	6	1	5	---	---
1200 coal coke	0	---	0	---	---

OAKLAND HARBOR, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports
Total petroleum and petroleum products	120	83	37	---	---
Subtotal crude petroleum	87	80	7	---	---
2100 crude petroleum	87	80	7	---	---
Subtotal petroleum products	33	3	30	---	---
2211 gasoline	0	0	0	---	---
2221 kerosene	0	---	0	---	---
2330 distillate fuel oil	4	0	4	---	---
2340 residual fuel oil	1	---	1	---	---
2350 lube oil & greases	8	0	8	---	---
2410 petro. jelly & waxes	4	2	1	---	---
2429 naphtha & solvents	2	---	2	---	---
2430 asphalt, tar & pitch	0	---	0	---	---
2540 petroleum coke	13	---	13	---	---
2640 liquid natural gas	0	---	0	---	---
Total chemicals and related products	593	187	403	3	---
Subtotal fertilizers	50	37	13	---	---
3110 nitrogenous fert.	34	34	0	---	---
3120 phosphatic fert.	0	---	0	---	---
3130 potassic fert.	0	---	0	---	---
3190 fert. & mixes nec	15	3	12	---	---
Subtotal other chemicals and related products	544	150	391	3	---
3211 acyclic hydrocarbons	1	0	1	---	---
3212 benzene & toluene	0	---	0	---	---
3219 other hydrocarbons	20	2	18	---	---
3220 alcohols	18	3	15	---	---
3230 carboxylic acids	16	4	12	---	---
3240 nitrogen func. comp.	13	4	9	---	---
3250 organo-inorganic comp.	11	3	8	---	---
3260 organic comp. nec	18	9	8	1	---
3271 sulphur (liquid)	1	0	1	---	---
3272 sulphuric acid	1	0	0	---	---
3273 ammonia	61	0	61	---	---
3274 sodium hydroxide	8	6	0	2	---
3275 inorg. elem., oxides, & halogen salts	25	13	12	---	---
3276 metallic salts	28	5	23	---	---
3279 inorganic chem. nec	2	1	1	---	---
3281 radioactive material	1	0	1	---	---
3282 pigments & paints	29	2	27	---	---
3283 coloring mat. nec	2	1	1	---	---
3284 medicines	7	2	5	---	---
3285 perfumes & cleansers	46	5	40	0	---
3286 plastics	128	37	91	0	---
3291 pesticides	2	0	2	---	---
3292 starches, gluten, glue	59	35	24	---	---
3293 explosives	1	1	0	---	---
3297 chemical additives	10	0	9	---	---
3298 wood & resin chem.	1	0	0	---	---
3299 chem. products nec	34	15	20	---	---
Total crude materials, inedible except fuels	1,505	68	1,437	0	0
Subtotal forest products, wood and chips	148	58	90	0	---
4110 rubber & gums	2	0	1	---	---
4150 fuel wood	2	0	1	---	---
4161 wood chips	4	0	4	---	---
4170 wood in the rough	53	5	48	---	---
4189 lumber	74	43	31	0	---
4190 forest products nec	15	10	5	---	---
Subtotal pulp and waste paper	551	2	550	---	---
4225 pulp & waste paper	551	2	550	---	---
Subtotal soil, sand, gravel, rock and stone	10	2	8	---	---
4310 building stone	1	0	0	---	---
4322 limestone	0	0	0	---	---
4323 gypsum	3	0	3	---	---
4331 sand & gravel	6	1	5	---	---
Subtotal iron ore and scrap	598	0	598	---	---
4410 iron ore	0	---	---	---	---
4420 iron & steel scrap	598	0	598	---	---
Subtotal marine shells	0	0	0	---	---
4515 marine shells	0	0	0	---	---
Subtotal non-ferrous ores and scrap	76	5	71	0	---
4630 copper ore	0	0	0	---	---
4650 aluminum ore	3	1	2	---	---
4680 non-ferrous scrap	70	2	69	0	---
4690 non-ferrous ores nec	2	2	0	---	---
Subtotal sulphur, clay and salt	14	0	14	---	---
4741 sulphur, (dry)	1	---	1	---	---
4782 clay & refrac. mat.	13	0	13	---	---
Subtotal slag	1	0	1	---	---
4860 slag	1	0	1	---	---
Subtotal other non-metal. min.	107	2	105	---	0
4900 non-metal. min. nec	107	2	105	---	0
Total primary manufactured goods	979	724	254	1	0
Subtotal paper products	174	105	68	1	---
5110 newsprint	60	59	0	1	---
5120 paper & paperboard	78	32	46	0	---
5190 paper products nec	36	14	22	---	---
Subtotal lime, cement and glass	233	150	84	0	0
5220 cement & concrete	8	0	7	---	---
5240 glass & glass prod.	75	37	38	0	0
5290 misc. mineral prod.	151	113	38	0	---
Subtotal primary iron and steel products	296	275	21	---	---
5312 pig iron	5	0	5	---	---

OAKLAND HARBOR, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports
5315 ferro alloys	1	0	0	—	—
5320 i&s primary forms	1	0	0	—	—
5330 i&s plates & sheets	164	157	7	—	—
5360 i&s bars & shapes	62	60	2	—	—
5370 i&s pipe & tube	51	49	2	—	—
5390 primary i&s nec	13	8	5	—	—
Subtotal primary non-ferrous metal products	249	190	59	0	—
5421 copper	23	4	20	—	—
5422 aluminum	19	8	11	—	—
5429 smelted prod. nec	8	2	7	—	—
5480 fab. metal products	198	176	21	0	—
Subtotal primary wood products	26	5	21	—	—
5540 primary wood prod.	26	5	21	—	—
Total food and farm products	3,713	774	2,937	1	1
Subtotal fish	41	6	36	0	—
6134 fish (not shellfish)	13	3	10	—	—
6136 shellfish	29	3	26	0	—
Subtotal grain	173	52	121	—	—
6241 wheat	29	0	29	—	—
6344 corn	11	0	11	—	—
6442 rice	132	52	80	—	—
6443 barley & rye	0	0	0	—	—
6445 oats	0	0	—	—	—
6447 sorghum grains	0	—	0	—	—
Subtotal oilseeds	16	2	14	—	—
6521 peanuts	0	—	0	—	—
6522 soybeans	11	0	10	—	—
6590 oilseeds nec	5	2	4	—	—
Subtotal vegetable products	492	92	399	0	0
6653 vegetable oils	36	18	18	0	—
6654 vegetables & prod.	455	74	381	0	0
Subtotal processed grain and animal feed	460	25	435	0	—
6746 wheat flour	3	1	2	0	—
6747 grain mill products	66	19	48	0	—
6781 hay & fodder	193	0	193	—	—
6782 animal feed, prep.	197	5	193	—	—
Subtotal other agricultural products	2,531	598	1,932	0	1
6811 meat, fresh, frozen	529	56	473	—	0
6817 meat, prepared	23	2	21	—	—
6822 dairy products	62	5	56	—	—
6835 fish, prepared	12	9	3	0	—
6838 tallow, animal oils	2	0	2	—	—
6839 animals & prod. nec	144	10	134	—	—
6856 bananas & plantains	0	0	0	—	—
6857 fruit & nuts nec	534	11	524	0	0
6858 fruit juices	238	140	98	0	0
6861 sugar	23	22	1	—	—
6865 molasses	1	—	1	—	—
6871 coffee	45	41	4	—	—
6872 cocoa beans	9	9	0	—	—
6885 alcoholic beverages	416	220	195	0	0
6888 water & ice	23	21	1	—	—
6889 food products nec	223	43	180	0	—
6891 tobacco & products	50	1	49	—	—
6893 cotton	181	0	181	—	—
6894 natural fibers nec	0	0	—	—	—
6899 farm products nec	18	8	9	0	0
Total all manufactured equipment, machinery and products	1,586	1,232	353	0	0
7110 machinery (not elec)	255	164	91	0	0
7120 electrical machinery	449	393	56	0	0
7210 vehicles & parts	194	143	51	—	0
7220 aircraft & parts	1	0	1	0	—
7230 ships & boats	1	1	1	—	—
7300 ordnance & access.	2	0	2	0	—
7400 manufac. wood prod.	59	33	26	0	0
7500 textile products	121	99	22	0	—
7600 rubber & plastic pr.	106	69	37	0	0
7900 manufac. prod. nec	397	331	65	0	0
Total unknown or not elsewhere classified	30	15	15	0	—
9900 unknown or nec	30	15	15	0	—

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intrпорт
Total, all commodities	2,327	295	1,155	806	70	1
Total petroleum and petroleum products	385	0	7	376	—	1
Subtotal petroleum products	385	0	7	376	—	1
2330 distillate fuel oil	193	0	0	193	—	—
2340 residual fuel oil	184	—	—	183	—	1
2350 lube oil & greases	2	0	2	—	—	—
2410 petro. jelly & waxes	0	—	0	—	—	—
2640 liquid natural gas	0	0	0	—	—	—
2990 petro. products nec	5	0	5	—	—	—

OAKLAND HARBOR, CA
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Receipts	Internal	
		Receipts	Shipments		Shipments	Intraport
Total chemicals and related products	63	21	42	---	---	---
Subtotal fertilizers	12	1	11	---	---	---
3130 potassic fert.	0	---	0	---	---	---
3190 fert. & mixes nec	12	1	11	---	---	---
Subtotal other chemicals and related products	51	20	31	---	---	---
3219 other hydrocarbons	0	---	0	---	---	---
3220 alcohols	0	0	0	---	---	---
3230 carboxylic acids	1	1	---	---	---	---
3250 organo-inorganic comp.	0	0	---	---	---	---
3260 organic comp. nec	6	6	0	---	---	---
3274 sodium hydroxide	0	---	0	---	---	---
3275 inorg. elem., oxides, & halogen salts	2	1	1	---	---	---
3281 radioactive material	0	0	---	---	---	---
3282 pigments & paints	7	0	7	---	---	---
3284 medicines	1	0	1	---	---	---
3285 perfumes & cleansers	15	0	15	---	---	---
3286 plastics	8	6	2	---	---	---
3291 pesticides	1	---	1	---	---	---
3292 starches, gluten, glue	0	0	---	---	---	---
3293 explosives	0	---	0	---	---	---
3298 wood & resin chem.	3	3	0	---	---	---
3299 chem. products nec	5	2	3	---	---	---
Total crude materials, inedible except fuels	466	21	15	430	---	---
Subtotal forest products, wood and chips	7	0	7	0	---	---
4150 fuel wood	1	---	1	---	---	---
4170 wood in the rough	0	---	---	0	---	---
4189 lumber	5	0	5	---	---	---
4190 forest products nec	1	---	1	---	---	---
Subtotal pulp and waste paper	23	19	4	---	---	---
4225 pulp & waste paper	23	19	4	---	---	---
Subtotal soil, sand, gravel, rock and stone	431	0	0	430	---	---
4323 gypsum	0	0	0	---	---	---
4331 sand & gravel	430	0	0	430	---	---
4338 soil & fill dirt	0	---	0	---	---	---
Subtotal iron ore and scrap	2	2	---	---	---	---
4420 iron & steel scrap	2	2	---	---	---	---
Subtotal non-ferrous ores and scrap	0	0	---	---	---	---
4680 non-ferrous scrap	0	0	---	---	---	---
Subtotal sulphur, clay and salt	0	0	---	---	---	---
4782 clay & refrac. mat.	0	0	---	---	---	---
Subtotal other non-metal. min.	4	---	4	---	---	---
4900 non-metal. min. nec	4	---	4	---	---	---
Total primary manufactured goods	81	4	77	0	---	---
Subtotal paper products	23	1	23	---	---	---
5110 newsprint	0	---	0	---	---	---
5120 paper & paperboard	13	0	13	---	---	---
5190 paper products nec	10	0	10	---	---	---
Subtotal lime, cement and glass	16	0	15	---	---	---
5220 cement & concrete	2	---	2	---	---	---
5240 glass & glass prod.	1	0	1	---	---	---
5290 misc. mineral prod.	13	0	13	---	---	---
Subtotal primary iron and steel products	8	0	7	---	---	---
5312 pig iron	0	0	---	---	---	---
5330 i&s plates & sheets	0	0	0	---	---	---
5360 i&s bars & shapes	7	0	7	---	---	---
5370 i&s pipe & tube	1	---	1	---	---	---
Subtotal primary non-ferrous metal products	31	3	29	0	---	---
5421 copper	0	0	0	---	---	---
5422 aluminum	0	0	0	---	---	---
5429 smelted prod. nec	0	0	---	0	---	---
5480 fab. metal products	31	2	29	---	---	---
Subtotal primary wood products	3	0	3	---	---	---
5540 primary wood prod.	3	0	3	---	---	---
Total food and farm products	778	139	569	---	70	---
Subtotal fish	2	1	1	---	---	---
6134 fish (not shellfish)	1	0	1	---	---	---
6136 shellfish	1	1	---	---	---	---
Subtotal grain	48	1	47	---	---	---
6241 wheat	0	0	0	---	---	---
6344 corn	1	1	---	---	---	---
6442 rice	47	---	47	---	---	---
Subtotal oilseeds	0	---	0	---	---	---
6590 oilseeds nec	0	---	0	---	---	---
Subtotal vegetable products	63	3	61	---	---	---
6653 vegetable oils	0	---	0	---	---	---
6654 vegetables & prod.	63	3	60	---	---	---
Subtotal processed grain and animal feed	26	3	23	---	---	---
6746 wheat flour	9	0	8	---	---	---
6747 grain mill products	1	0	1	---	---	---
6781 hay & fodder	2	1	1	---	---	---
6782 animal feed, prep.	15	2	13	---	---	---
Subtotal other agricultural products	637	131	436	---	70	---
6811 meat, fresh, frozen	58	1	56	---	---	---
6817 meat, prepared	4	0	4	---	---	---
6822 dairy products	19	0	19	---	---	---
6839 animals & prod. nec	13	9	4	---	---	---
6856 bananas & plantains	1	---	1	---	---	---
6857 fruit & nuts nec	56	1	55	---	---	---
6858 fruit juices	46	46	0	---	---	---
6861 sugar	1	---	1	---	---	---

OAKLAND HARBOR, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Receipts	Internal	
		Receipts	Shipments		Shipments	Intraport
6865 molasses	132	62	—	—	70	—
6871 coffee	4	3	2	—	—	—
6885 alcoholic beverages	58	0	57	—	—	—
6887 groceries	65	0	65	—	—	—
6889 food products nec	142	3	139	—	—	—
6891 tobacco & products	4	3	1	—	—	—
6893 cotton	0	—	0	—	—	—
6894 natural fibers nec	0	—	0	—	—	—
6899 farm products nec	35	2	33	—	—	—
Total all manufactured equipment, machinery and products	534	104	430	0	—	—
7110 machinery (not elec)	56	20	35	0	—	—
7120 electrical machinery	3	0	3	—	—	—
7210 vehicles & parts	118	21	97	—	—	—
7220 aircraft & parts	0	0	0	—	—	—
7230 ships & boats	0	0	0	—	—	—
7300 ordnance & access.	0	0	—	—	—	—
7400 manufac. wood prod.	6	5	2	—	—	—
7500 textile products	4	2	3	—	—	—
7600 rubber & plastic pr.	4	0	4	—	—	—
7900 manufac. prod. nec	341	56	285	—	—	—
Total unknown or not elsewhere classified	20	6	14	—	—	—
9900 unknown or nec	20	6	14	—	—	—

*Includes 48 (x1000) tons of foreign inbound in-transits; Includes 14 (x1000) tons of foreign outbound in-transits;
Includes 0 (x1000) tons of Canadian inbound in-transits.

RICHMOND HARBOR, CA

Section Included: Inner harbor, from southern end of Richmond Long Wharf maneuvering area to the head of Santa Fe Channel, a distance of about 5 miles; outer harbor, from southern end of maneuvering area at Richmond Long Wharf to Point San Pablo and the north side of Point San Pablo; includes a connecting channel (Southampton Channel) to the Richmond Long Wharf maneuvering area and approach areas at Point San Pablo and Point Orient. Controlling Depth: 45.7 feet in Southampton Channel (connecting channel from San Francisco Bay to Richmond Long Wharf maneuvering area); 44.7 feet in maneuvering area to Richmond Long Wharf; 34.8 feet from Richmond Long Wharf maneuvering area to turning basin Point Richmond; 34.8 feet in Point Richmond turning basin; 34.5 feet to Point Potrero; 34.0 feet in turning basin at Point Potrero; Point Potrero (southerly apex only) 28.7 feet; 34.7 feet to Lauritzen Canal then 30.4 feet in Santa Fe Channel to upper turning basin; 30.4 feet in upper turning basin; 27 feet in approach to Point Orient; 26 feet in approach to Point San Pablo; 30.6 feet at Molate Point; and 33.4 feet in West Richmond Channel. Project Depth: 45 feet in connecting channel (Southampton Channel) from San Francisco Bay to Richmond Long Wharf maneuvering area; 45 feet in maneuvering area to Richmond Long Wharf; 35 feet to turning basin at Point Richmond; 35 feet to Point Potrero; 35 feet to Santa Fe Channel; 35 feet in Santa Fe Channel for approximately 2,000 feet then 30 feet in the remainder of Santa Fe Channel and turning basin; 20 feet in channel east of Point San Pablo Channel; 32 feet in approach to Point Orient; 32 feet in approach to Point San Pablo.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	18,913	1991	19,919	1994	24,094	1997	21,706
1989	25,103	1992	21,042	1995	20,839		
1990	21,156	1993	24,570	1996	21,803		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian Imports
		Imports*	Exports*	
Total, all commodities	5,221	3,061	1,774	386
Total coal	312	282	30	—
1100 coal lignite	30	—	30	—
1200 coal coke	282	282	—	—
Total petroleum and petroleum products	3,404	2,001	1,403	—
Subtotal crude petroleum	1,029	1,029	—	—
2100 crude petroleum	1,029	1,029	—	—
Subtotal petroleum products	2,375	973	1,403	—
2221 kerosene	34	34	—	—
2340 residual fuel oil	1,144	10	1,134	—
2350 lube oil & greases	0	—	0	—
2410 petro. jelly & waxes	11	11	0	—
2429 naphtha & solvents	1,009	917	92	—
2430 asphalt, tar & pitch	28	—	28	—
2540 petroleum coke	150	—	150	—
Total chemicals and related products	555	130	57	368
Subtotal fertilizers	58	58	0	—
3110 nitrogenous fert.	58	58	—	—
3120 phosphatic fert.	0	—	0	—
3190 fert. & mixes nec	0	0	0	—
Subtotal other chemicals and related products	497	72	57	368
3211 acyclic hydrocarbons	9	—	9	—
3219 other hydrocarbons	0	—	0	—

RICHMOND HARBOR, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian
		Imports*	Exports*	Imports
3220 alcohols	216	—	—	216
3230 carboxylic acids	0	0	0	—
3240 nitrogen func. comp.	0	0	—	—
3260 organic comp. nec	195	61	0	134
3272 sulphuric acid	0	—	0	—
3274 sodium hydroxide	18	—	—	18
3275 inorg. elem., oxides, & halogen salts	0	0	0	—
3276 metallic salts	0	0	0	—
3279 inorganic chem. nec	0	0	0	—
3282 pigments & paints	0	—	0	—
3283 coloring mat. nec	0	—	0	—
3284 medicines	0	—	0	—
3285 perfumes & cleansers	0	0	0	—
3286 plastics	0	0	0	—
3292 starches, gluten, glue	0	0	0	—
3297 chemical additives	46	—	46	—
3298 wood & resin chem.	0	—	0	—
3299 chem. products nec	11	11	0	—
Total crude materials, inedible except fuels	404	207	180	17
Subtotal forest products, wood and chips	13	12	1	—
4170 wood in the rough	0	0	0	—
4189 lumber	13	12	1	—
4190 forest products nec	0	0	0	—
Subtotal pulp and waste paper	1	—	1	—
4225 pulp & waste paper	1	—	1	—
Subtotal soil, sand, gravel, rock and stone	153	135	0	17
4322 limestone	17	—	—	17
4323 gypsum	135	135	0	—
4331 sand & gravel	0	0	—	—
Subtotal iron ore and scrap	168	—	168	—
4420 iron & steel scrap	168	—	168	—
Subtotal non-ferrous ores and scrap	63	59	4	—
4650 aluminum ore	59	59	—	—
4690 non-ferrous ores nec	4	—	4	—
Subtotal sulphur, clay and salt	6	—	6	—
4741 sulphur, (dry)	6	—	6	—
4782 clay & refrac. mat.	0	—	0	—
Subtotal other non-metal. min.	0	—	0	—
4900 non-metal. min. nec	0	—	0	—
Total primary manufactured goods	148	147	1	—
Subtotal paper products	1	0	1	—
5120 paper & paperboard	0	0	0	—
5190 paper products nec	0	0	0	—
Subtotal lime, cement and glass	1	1	0	—
5220 cement & concrete	0	—	0	—
5240 glass & glass prod.	1	1	0	—
5290 misc. mineral prod.	1	1	—	—
Subtotal primary iron and steel products	145	145	0	—
5330 i&s plates & sheets	137	137	—	—
5360 i&s bars & shapes	6	6	0	—
5370 i&s pipe & tube	1	1	0	—
5390 primary i&s nec	0	0	—	—
Subtotal primary non-ferrous metal products	1	1	0	—
5421 copper	0	0	0	—
5422 aluminum	0	0	0	—
5480 fab. metal products	1	1	0	—
Subtotal primary wood products	0	—	0	—
5540 primary wood prod.	0	—	0	—
Total food and farm products	389	289	100	—
Subtotal fish	1	1	0	—
6134 fish (not shellfish)	1	1	0	—
6136 shellfish	1	0	0	—
Subtotal grain	1	—	1	—
6241 wheat	0	—	0	—
6344 corn	0	—	0	—
6442 rice	1	—	1	—
Subtotal oilseeds	32	17	15	—
6590 oilseeds nec	32	17	15	—
Subtotal vegetable products	315	252	63	—
6653 vegetable oils	310	252	58	—
6654 vegetables & prod.	6	0	5	—
Subtotal processed grain and animal feed	4	0	4	—
6746 wheat flour	0	0	—	—
6747 grain mill products	1	0	1	—
6781 hay & fodder	0	—	0	—
6782 animal feed, prep.	3	0	3	—
Subtotal other agricultural products	35	19	16	—
6811 meat, fresh, frozen	10	6	4	—
6817 meat, prepared	0	0	0	—
6822 dairy products	0	0	0	—
6835 fish, prepared	0	0	0	—
6838 tallow, animal oils	6	—	6	—
6839 animals & prod. nec	1	1	0	—
6857 fruit & nuts nec	3	0	3	—
6858 fruit juices	1	0	1	—
6861 sugar	0	—	0	—
6871 coffee	0	0	0	—
6885 alcoholic beverages	11	11	1	—
6888 water & ice	0	0	—	—
6889 food products nec	2	0	1	—
6891 tobacco & products	0	—	0	—

RICHMOND HARBOR, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian
		Imports*	Exports*	Imports
6894 natural fibers nec	0	—	0	—
6899 farm products nec	1	1	0	—
Total all manufacture~ü	8	4	3	0
7110 machinery (not elec)	2	0	2	—
7120 electrical machinery	1	1	0	—
7210 vehicles & parts	0	0	0	—
7220 aircraft & parts	0	0	0	—
7230 ships & boats	0	0	0	—
7300 ordnance & access.	0	—	0	—
7400 manufac. wood prod.	1	1	0	—
7500 textile products	0	0	0	0
7600 rubber & plastic pr.	1	0	1	—
7900 manufac. prod. nec	2	2	0	—
Total unknown or not elsewhere classified	1	0	0	—
9900 unknown or nec	1	0	0	—

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	16,485	12,817	2,067	957	495	149
Total petroleum and petroleum products	16,110	12,543	2,022	903	495	146
Subtotal crude petroleum	12,129	11,623	8	497	—	—
2100 crude petroleum	12,129	11,623	8	497	—	—
Subtotal petroleum products	3,981	920	2,014	406	495	146
2211 gasoline	1,912	149	1,612	1	151	—
2330 distillate fuel oil	789	449	203	103	35	—
2340 residual fuel oil	1,207	320	160	276	309	143
2350 lube oil & greases	72	2	39	27	—	3
2990 petro. products nec	0	—	0	—	—	—
Total chemicals and related products	344	273	45	23	—	3
Subtotal other chemicals and related products	344	273	45	23	—	3
3211 acyclic hydrocarbons	18	—	15	—	—	3
3212 benzene & toluene	18	18	—	—	—	—
3219 other hydrocarbons	32	6	26	—	—	—
3274 sodium hydroxide	156	156	—	—	—	—
3297 chemical additives	117	94	—	23	—	—
3298 wood & resin chem.	3	—	3	—	—	—
Total crude materials, inedible except fuels	31	—	—	31	0	—
Subtotal forest products, wood and chips	0	—	—	0	0	—
4170 wood in the rough	0	—	—	0	0	—
Subtotal soil, sand, gravel, rock and stone	31	—	—	31	—	—
4331 sand & gravel	31	—	—	31	—	—
Total primary manufactured goods	0	—	—	—	0	—
Subtotal primary non-ferrous metal products	0	—	—	—	0	—
5429 smelted prod. nec	0	—	—	—	0	—
Total all manufactured equipment, machinery and products	0	—	—	—	0	—
7110 machinery (not elec)	0	—	—	—	0	—

*Includes 0 (x1000) tons of foreign inbound in-transits; Includes 1 (x1000) tons of foreign outbound in-transits.

SAN PABLO BAY AND MARE ISLAND STRAIT, CA

Section Included: All of San Pablo Bay and Mare Island Strait. Controlling Depth: Pinole Shoal channel 36.3 feet from San Pablo buoy at beginning of channel to buoy 9; 34.3 feet to buoy 11; 35.1 feet to end of channel; Mare Island Strait (the maintained westerly 55% of project width) 36.3 feet to the Navy Ammunition Pier; 35.8 feet to Finger Pier No. 21; 36.0 feet to "A" Street (end of maintained section); 20.5 feet to the end of 26-foot project at causeway. Project Depth: 35 feet in Pinole Shoal Channel and 30 feet in Mare Island Strait, except at upstream end of turning basin, 26 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	33,323	1991	32,326	1994	32,367	1997	22,480
1989	36,352	1992	36,085	1995	31,265		
1990	33,982	1993	34,447	1996	28,579		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through Upbound	Through Downbnd	Imports	Through Upbound	Through Downbnd
Total, all commodities	8,993	145	132	4,515	3,771	4	402	24
Total coal	74	---	---	---	74	---	---	---
1100 coal lignite	74	---	---	---	74	---	---	---
Total petroleum and petroleum products	4,235	54	116	1,609	2,423	---	9	24
Subtotal crude petroleum	1,577	54	---	1,523	---	---	---	---
2100 crude petroleum	1,577	54	---	1,523	---	---	---	---
Subtotal petroleum products	2,658	---	116	87	2,423	---	9	24
2211 gasoline	188	---	28	---	160	---	---	---
2221 kerosene	106	---	28	---	62	---	---	16
2330 distillate fuel oil	258	---	---	54	196	---	9	---
2340 residual fuel oil	751	---	35	21	688	---	---	8
2350 lube oil & greases	57	---	---	---	57	---	---	---
2429 naphtha & solvents	307	---	25	12	270	---	---	---
2430 asphalt, tar & pitch	258	---	---	---	258	---	---	---
2540 petroleum coke	733	---	---	---	733	---	---	---
Total chemicals and related products	1,656	91	---	1,152	16	4	393	---
Subtotal fertilizers	435	---	---	410	0	---	25	---
3110 nitrogenous fert.	358	---	---	333	---	---	25	---
3190 fert. & mixes nec	77	---	---	77	0	---	---	---
Subtotal other chemicals and related products	1,220	91	---	742	16	4	368	---
3211 acyclic hydrocarbons	4	---	---	---	4	---	---	---
3212 benzene & toluene	5	---	---	5	---	---	---	---
3219 other hydrocarbons	0	---	---	---	0	---	---	---
3220 alcohols	0	---	---	0	0	---	---	---
3230 carboxylic acids	0	---	---	0	0	---	---	---
3240 nitrogen func. comp.	0	---	---	0	0	---	---	---
3250 organo-inorganic comp.	0	---	---	---	0	---	---	---
3260 organic comp. nec	873	91	---	671	0	4	107	---
3273 ammonia	291	---	---	43	---	---	249	---
3274 sodium hydroxide	19	---	---	7	0	---	12	---
3275 inorg. elem. oxides, & halogen salts	0	---	---	---	0	---	---	---
3276 metallic salts	16	---	---	16	0	---	---	---
3282 pigments & paints	0	---	---	---	0	---	---	---
3283 coloring mat. nec	0	0	---	---	0	---	---	---
3284 medicines	0	---	---	0	0	---	---	---
3285 perfumes & cleansers	0	---	---	---	0	---	---	---
3286 plastics	1	---	---	0	1	---	---	---
3291 pesticides	0	---	---	---	0	---	---	---
3292 starches, gluten, glue	0	---	---	0	0	---	---	---
3297 chemical additives	9	---	---	---	9	---	---	---
3299 chem. products nec	0	---	---	---	0	---	---	---
Total crude materials, inedible except fuels	952	---	15	360	578	---	---	---
Subtotal forest products, wood and chips	337	---	14	1	322	---	---	---
4161 wood chips	323	---	14	---	309	---	---	---
4170 wood in the rough	13	---	---	---	13	---	---	---
4189 lumber	1	---	---	1	0	---	---	---
4190 forest products nec	0	---	---	---	0	---	---	---
Subtotal pulp and waste paper	0	---	---	---	0	---	---	---
4225 pulp & waste paper	0	---	---	---	0	---	---	---
Subtotal soil, sand, gravel, rock and stone	358	---	---	354	4	---	---	---
4323 gypsum	354	---	---	354	---	---	---	---
4327 phosphate rock	4	---	---	---	4	---	---	---
4331 sand & gravel	0	---	---	---	0	---	---	---
Subtotal iron ore and scrap	34	---	0	---	34	---	---	---
4420 iron & steel scrap	34	---	0	---	34	---	---	---
Subtotal non-ferrous ores and scrap	4	---	0	3	0	---	---	---
4680 non-ferrous scrap	3	---	0	3	---	---	---	---
4690 non-ferrous ores nec	1	---	---	1	0	---	---	---
Subtotal sulphur, clay and salt	218	---	---	---	218	---	---	---
4741 sulphur, (dry)	206	---	---	---	206	---	---	---

SAN PABLO BAY AND MARE ISLAND STRAIT, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through		Imports	Through	
				Upbound	Downbnd		Upbound	Downbnd
4782 clay & refrac. mat.	12	---	---	---	12	---	---	---
Subtotal other non-metal. min.	1	---	---	1	---	---	---	---
4900 non-metal. min. nec	1	---	---	1	---	---	---	---
Total primary manufactured goods	891	0	1	856	33	---	---	---
Subtotal paper products	8	---	---	8	0	---	---	---
5110 newsprint	8	---	---	8	0	---	---	---
5120 paper & paperboard	0	---	---	0	0	---	---	---
5190 paper products nec	0	---	---	0	0	---	---	---
Subtotal lime, cement and glass	3	0	1	1	0	---	---	---
5240 glass & glass prod.	1	---	---	1	0	---	---	---
5290 misc. mineral prod.	2	0	1	0	0	---	---	---
Subtotal primary iron and steel products	879	---	0	847	32	---	---	---
5330 i&s plates & sheets	841	---	0	841	---	---	---	---
5360 i&s bars & shapes	3	---	---	3	---	---	---	---
5370 i&s pipe & tube	36	---	---	4	32	---	---	---
5390 primary i&s nec	0	---	---	0	---	---	---	---
Subtotal primary non-ferrous metal products	1	0	0	0	1	---	---	---
5421 copper	0	---	---	0	0	---	---	---
5422 aluminum	0	---	---	0	0	---	---	---
5429 smelted prod. nec	1	---	---	---	1	---	---	---
5480 fab. metal products	0	0	0	0	0	---	---	---
Total food and farm products	1,109	0	---	526	583	---	---	---
Subtotal grain	535	---	---	---	535	---	---	---
6241 wheat	80	---	---	---	80	---	---	---
6442 rice	454	---	---	---	454	---	---	---
Subtotal oilseeds	54	---	---	16	38	---	---	---
6590 oilseeds nec	54	---	---	16	38	---	---	---
Subtotal vegetable products	6	---	---	0	6	---	---	---
6653 vegetable oils	6	---	---	---	6	---	---	---
6654 vegetables & prod.	0	---	---	0	0	---	---	---
Subtotal processed grain and animal feed	0	---	---	0	0	---	---	---
6747 grain mill products	0	---	---	0	0	---	---	---
6781 hay & fodder	0	---	---	---	0	---	---	---
6782 animal feed, prep.	0	---	---	0	0	---	---	---
Subtotal other agricultural products	513	0	---	509	4	---	---	---
6811 meat, fresh, frozen	1	---	---	1	0	---	---	---
6838 tallow, animal oils	2	---	---	---	2	---	---	---
6839 animals & prod. nec	0	---	---	0	---	---	---	---
6857 fruit & nuts nec	1	---	---	---	1	---	---	---
6858 fruit juices	0	---	---	0	0	---	---	---
6861 sugar	368	---	---	368	---	---	---	---
6865 molasses	138	---	---	138	---	---	---	---
6871 coffee	0	0	---	0	---	---	---	---
6872 cocoa beans	0	---	---	0	---	---	---	---
6885 alcoholic beverages	1	---	---	1	0	---	---	---
6888 water & ice	1	---	---	1	---	---	---	---
6889 food products nec	0	---	---	0	0	---	---	---
6891 tobacco & products	0	---	---	---	0	---	---	---
6899 farm products nec	0	---	---	---	0	---	---	---
Total all manufactured equipment, machinery and products	76	0	0	12	64	---	---	---
7110 machinery (not elec)	1	0	---	0	1	---	---	---
7120 electrical machinery	1	---	0	0	0	---	---	---
7210 vehicles & parts	71	---	---	10	61	---	---	---
7220 aircraft & parts	0	---	---	---	0	---	---	---
7230 ships & boats	0	---	0	---	0	---	---	---
7300 ordnance & access.	0	---	---	---	0	---	---	---
7400 manufac. wood prod.	0	---	---	0	0	---	---	---
7500 textile products	1	0	0	0	1	---	---	---
7600 rubber & plastic pr.	1	---	---	0	1	---	---	---
7900 manufac. prod. nec	1	0	---	0	0	---	---	---
Total unknown or not elsewhere classified	0	---	---	0	0	---	---	---
9900 unknown or nec	0	---	---	0	0	---	---	---
Ton-miles (x1000) Foreign & Canadian	89,928	1,454	1,319	45,147	37,714	39	4,019	237

SAN PABLO BAY AND MARE ISLAND STRAIT, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Coastwise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Total, all commodities	7,407	1,062	913	3,758	1,674
Total petroleum and petroleum products	6,778	1,053	913	3,139	1,673
Subtotal crude petroleum	3,409	943	10	2,446	10
2100 crude petroleum	3,409	943	10	2,446	10
Subtotal petroleum products	3,369	109	903	693	1,663
2211 gasoline	1,157	2	158	196	800
2330 distillate fuel oil	1,328	59	538	307	423
2340 residual fuel oil	739	35	158	190	356
2350 lube oil & greases	109	6	48	—	55
2429 naphtha & solvents	36	6	—	—	30
Total chemicals and related products	331	10	—	320	1
Subtotal fertilizers	104	—	—	104	—
3110 nitrogenous fert.	104	—	—	104	—
Subtotal other chemicals and related products	226	10	—	216	1
3272 sulphuric acid	0	—	—	—	0
3273 ammonia	134	—	—	134	0
3274 sodium hydroxide	15	—	—	14	1
3293 explosives	0	—	—	—	0
3297 chemical additives	77	10	—	68	—
Total food and farm products	294	—	—	294	—
Subtotal other agricultural products	294	—	—	294	—
6861 sugar	294	—	—	294	—
Total all manufactured equipment, machinery and products	5	—	—	5	—
7800 empty containers	5	—	—	5	—
Ton-miles (x1000)	73,113	9,959	8,836	37,578	16,741
Coastwise					

Commodity	Total	Internal						
		Inbound		Outbound		Through		
		Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	
Total, all commodities	6,080	277	152	120	4,522	937	34	39
Total petroleum and petroleum products	5,592	262	152	120	4,334	652	34	39
Subtotal crude petroleum	4,204	10	—	—	4,121	—	34	39
2100 crude petroleum	4,204	10	—	—	4,121	—	34	39
Subtotal petroleum products	1,388	252	152	120	212	652	—	—
2211 gasoline	304	135	—	1	151	17	—	—
2330 distillate fuel oil	436	32	37	30	33	303	—	—
2340 residual fuel oil	545	42	90	75	28	311	—	—
2350 lube oil & greases	85	24	25	16	—	20	—	—
2429 naphtha & solvents	18	18	—	—	—	—	—	—
Total chemicals and related products	37	15	—	—	—	23	—	—
Subtotal other chemicals and related products	37	15	—	—	—	23	—	—
3297 chemical additives	37	15	—	—	—	23	—	—
Total crude materials, inedible except fuels	379	—	—	—	118	261	—	—
Subtotal forest products, wood and chips	0	—	—	—	0	0	—	—
4170 wood in the rough	0	—	—	—	0	0	—	—
Subtotal soil, sand, gravel, rock and stone	356	—	—	—	96	261	—	—
4331 sand & gravel	356	—	—	—	96	261	—	—
Subtotal marine shells	23	—	—	—	23	—	—	—
4515 marine shells	23	—	—	—	23	—	—	—
Total primary manufactured goods	2	—	—	—	1	2	—	—
Subtotal lime, cement and glass	2	—	—	—	1	2	—	—
5290 misc. mineral prod.	2	—	—	—	1	2	—	—
Total food and farm products	70	—	—	—	70	—	—	—
Subtotal other agricultural products	70	—	—	—	70	—	—	—
6865 molasses	70	—	—	—	70	—	—	—
Ton-miles (x1000)	55,099	382	431	1,017	45,158	7,972	101	39
Internal								
Tons All Traffic (x1000)		22,480						
Ton-miles All Traffic (x1000)		218,141						

CARQUINEZ STRAIT, CA

Section Included: All of Carquinez Strait from Davis Point on the westerly end to the Benicia-Martinez Bridge at Suisun Point on the easterly end, a distance of about 8 miles. Controlling Depth: 33 feet. Project Depth: 45 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	27,155	1991	25,700	1994	26,118	1997	20,421
1989	28,117	1992	27,656	1995	26,931		
1990	26,565	1993	26,046	1996	24,841		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports*	Through		Imports	Exports	Through Upbound
				Upbound	Downbnd			
Total, all commodities	8,712	2,563	1,481	1,952	2,290	89	24	313
Total coal	74	---	---	---	74	---	---	---
1100 coal lignite	74	---	---	---	74	---	---	---
Total petroleum and petroleum products	4,065	1,487	1,402	122	1,021	9	24	---
Subtotal crude petroleum	1,523	1,420	---	103	---	---	---	---
2100 crude petroleum	1,523	1,420	---	103	---	---	---	---
Subtotal petroleum products	2,542	67	1,402	20	1,021	9	24	---
2211 gasoline	160	---	---	---	160	---	---	---
2221 kerosene	78	---	62	---	---	---	16	---
2330 distillate fuel oil	258	46	146	8	49	9	---	---
2340 residual fuel oil	717	21	473	---	215	---	8	---
2350 lube oil & greases	57	---	56	---	0	---	---	---
2429 naphtha & solvents	282	---	261	12	9	---	---	---
2430 asphalt, tar & pitch	258	---	258	---	---	---	---	---
2540 petroleum coke	733	---	145	---	587	---	---	---
Total chemicals and related products	1,561	694	13	457	3	81	---	313
Subtotal fertilizers	435	0	---	410	0	---	---	25
3110 nitrogenous fert.	358	---	---	333	---	---	---	25
3190 fert. & mixes nec	77	0	---	77	0	---	---	---
Subtotal other chemicals and related products	1,126	694	13	48	3	81	---	287
3211 acyclic hydrocarbons	4	---	4	---	---	---	---	---
3212 benzene & toluene	5	5	---	---	---	---	---	---
3219 other hydrocarbons	0	---	---	---	0	---	---	---
3220 alcohols	0	---	---	---	0	---	---	---
3230 carboxylic acids	0	---	---	0	0	---	---	---
3240 nitrogen func. comp.	0	---	---	0	0	---	---	---
3250 organo-inorganic comp.	0	---	---	---	0	---	---	---
3260 organic comp. nec	778	667	---	4	0	81	---	27
3273 ammonia	291	18	---	24	---	---	---	249
3274 sodium hydroxide	19	4	---	3	0	---	---	12
3275 inorg. elem. oxides, & halogen salts	0	---	---	---	0	---	---	---
3276 metallic salts	16	---	---	16	0	---	---	---
3282 pigments & paints	0	---	---	---	0	---	---	---
3283 coloring mat. nec	0	---	---	---	0	---	---	---
3284 medicines	0	---	---	0	0	---	---	---
3285 perfumes & cleansers	0	---	---	---	0	---	---	---
3286 plastics	1	---	---	0	1	---	---	---
3291 pesticides	0	---	---	---	0	---	---	---
3292 starches, gluten, glue	0	---	---	0	0	---	---	---
3297 chemical additives	9	---	9	---	0	---	---	---
3299 chem. products nec	0	---	---	---	0	---	---	---
Total crude materials, inedible except fuels	938	1	0	359	578	---	---	---
Subtotal forest products, wood and chips	323	1	---	---	322	---	---	---
4161 wood chips	309	---	---	---	309	---	---	---
4170 wood in the rough	13	---	---	---	13	---	---	---
4189 lumber	1	1	---	---	0	---	---	---
4190 forest products nec	0	---	---	---	0	---	---	---
Subtotal pulp and waste paper	0	---	---	---	0	---	---	---
4225 pulp & waste paper	0	---	---	---	0	---	---	---
Subtotal soil, sand, gravel, rock and stone	358	---	---	354	4	---	---	---
4323 gypsum	354	---	---	354	---	---	---	---
4327 phosphate rock	4	---	---	---	4	---	---	---
4331 sand & gravel	0	---	---	---	0	---	---	---
Subtotal iron ore and scrap	34	---	0	---	34	---	---	---
4420 iron & steel scrap	34	---	0	---	34	---	---	---
Subtotal non-ferrous ores and scrap	4	0	---	3	0	---	---	---
4680 non-ferrous scrap	3	---	---	3	---	---	---	---
4690 non-ferrous ores nec	1	0	---	1	0	---	---	---
Subtotal sulphur, clay and salt	218	---	---	---	218	---	---	---
4741 sulphur, (dry)	206	---	---	---	206	---	---	---
4782 clay & refrac. mat.	12	---	---	---	12	---	---	---

CARQUINEZ STRAIT, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports*	Through		Imports	Exports	Through
				Upbound	Downbnd			Upbound
Subtotal other non-metal. min.	1	---	---	1	---	---	---	---
4900 non-metal. min. nec	1	---	---	1	---	---	---	---
Total primary manufactured goods	890	3	---	854	33	---	---	---
Subtotal paper products	8	---	---	8	0	---	---	---
5110 newsprint	8	---	---	8	0	---	---	---
5120 paper & paperboard	0	---	---	0	0	---	---	---
5190 paper products nec	0	---	---	0	0	---	---	---
Subtotal lime, cement and glass	2	0	---	1	0	---	---	---
5240 glass & glass prod.	1	0	---	1	0	---	---	---
5290 misc. mineral prod.	1	0	---	0	0	---	---	---
Subtotal primary iron and steel products	879	3	---	845	32	---	---	---
5330 i&s plates & sheets	841	---	---	841	---	---	---	---
5360 i&s bars & shapes	3	3	---	---	---	---	---	---
5370 i&s pipe & tube	36	---	---	4	32	---	---	---
5390 primary i&s nec	0	0	---	0	0	---	---	---
Subtotal primary non-ferrous metal products	1	0	---	0	1	---	---	---
5421 copper	0	0	---	---	0	---	---	---
5422 aluminum	0	---	---	0	0	---	---	---
5429 smelted prod. nec	1	---	---	---	1	---	---	---
5480 fab. metal products	0	0	---	0	0	---	---	---
Total food and farm products	1,108	370	7	156	576	---	---	---
Subtotal grain	535	---	---	---	535	---	---	---
6241 wheat	80	---	---	---	80	---	---	---
6442 rice	454	---	---	---	454	---	---	---
Subtotal oilseeds	54	0	1	16	37	---	---	---
6590 oilseeds nec	54	0	1	16	37	---	---	---
Subtotal vegetable products	6	0	6	0	0	---	---	---
6653 vegetable oils	6	---	6	---	---	---	---	---
6654 vegetables & prod.	0	0	---	0	0	---	---	---
Subtotal processed grain and animal feed	0	0	---	0	0	---	---	---
6747 grain mill products	0	0	---	---	0	---	---	---
6781 hay & fodder	0	---	---	---	0	---	---	---
6782 animal feed, prep.	0	---	---	0	0	---	---	---
Subtotal other agricultural products	513	370	0	139	4	---	---	---
6811 meat, fresh, frozen	1	1	---	---	0	---	---	---
6838 tallow, animal oils	2	---	---	---	2	---	---	---
6839 animals & prod. nec	0	0	---	---	---	---	---	---
6857 fruit & nuts nec	1	---	0	---	1	---	---	---
6858 fruit juices	0	0	---	---	0	---	---	---
6861 sugar	368	368	---	---	---	---	---	---
6865 molasses	138	---	---	138	---	---	---	---
6871 coffee	0	0	---	0	---	---	---	---
6872 cocoa beans	0	0	---	---	---	---	---	---
6885 alcoholic beverages	1	1	---	0	0	---	---	---
6888 water & ice	1	---	---	1	---	---	---	---
6889 food products nec	0	0	---	0	0	---	---	---
6891 tobacco & products	0	---	---	---	0	---	---	---
6899 farm products nec	0	---	---	---	0	---	---	---
Total all manufactured equipment, machinery and products	76	8	59	4	5	---	---	---
7110 machinery (not elec)	1	0	---	0	1	---	---	---
7120 electrical machinery	1	0	---	0	0	---	---	---
7210 vehicles & parts	71	7	59	4	2	---	---	---
7220 aircraft & parts	0	---	---	---	0	---	---	---
7230 ships & boats	0	---	0	---	0	---	---	---
7300 ordnance & access.	0	---	0	---	---	---	---	---
7400 manufac. wood prod.	0	0	---	0	0	---	---	---
7500 textile products	1	0	---	0	1	---	---	---
7600 rubber & plastic pr.	1	0	0	0	1	---	---	---
7900 manufac. prod. nec	1	0	0	0	0	---	---	---
Total unknown or not elsewhere classified	0	0	0	---	0	---	---	---
9900 unknown or nec	0	0	0	---	0	---	---	---
Ton-miles (x1000) Foreign & Canadian	60,982	17,938	10,369	13,665	16,031	625	166	2,188

CARQUINEZ STRAIT, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Coastwise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Total, all commodities	5,432	3,459	1,149	299	525
Total petroleum and petroleum products	4,812	3,115	1,149	25	524
Subtotal crude petroleum	2,456	2,446	—	—	10
2100 crude petroleum	2,456	2,446	—	—	10
Subtotal petroleum products	2,356	669	1,149	25	514
2211 gasoline	996	196	497	—	303
2330 distillate fuel oil	730	292	274	15	148
2340 residual fuel oil	546	180	294	10	62
2350 lube oil & greases	55	—	55	—	—
2429 naphtha & solvents	30	—	30	—	—
Total chemicals and related products	321	51	—	269	1
Subtotal fertilizers	104	—	—	104	—
3110 nitrogenous fert.	104	—	—	104	—
Subtotal other chemicals and related products	217	51	—	165	1
3272 sulphuric acid	0	—	—	—	0
3273 ammonia	134	—	—	134	0
3274 sodium hydroxide	15	—	—	14	1
3293 explosives	0	—	—	—	0
3297 chemical additives	68	51	—	17	—
Total food and farm products	294	294	—	—	—
Subtotal other agricultural products	294	294	—	—	—
6861 sugar	294	294	—	—	—
Total all manufactured equipment, machinery and products	5	—	—	5	—
7800 empty containers	5	—	—	5	—
Ton-miles (x1000)	34,124	21,739	6,620	2,091	3,675

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	6,277	3,916	159	9	727	692	485	210	78
Total petroleum and petroleum products	5,733	3,871	41	9	637	614	277	205	78
Subtotal crude petroleum	4,209	3,610	—	—	10	511	—	78	—
2100 crude petroleum	4,209	3,610	—	—	10	511	—	78	—
Subtotal petroleum products	1,523	261	41	9	627	103	277	128	78
2211 gasoline	341	151	—	—	76	—	76	—	37
2330 distillate fuel oil	522	50	16	9	327	21	8	74	18
2340 residual fuel oil	573	60	25	—	203	58	149	54	24
2350 lube oil & greases	70	—	—	—	20	25	24	—	—
2429 naphtha & solvents	18	—	—	—	—	—	18	—	—
Total chemicals and related products	37	—	—	—	37	—	—	—	—
Subtotal other chemicals and related products	37	—	—	—	37	—	—	—	—
3297 chemical additives	37	—	—	—	37	—	—	—	—
Total crude materials, inedible except fuels	431	45	119	—	52	7	208	—	—
Subtotal forest products, wood and chips	0	—	—	—	—	0	0	—	—
4170 wood in the rough	0	—	—	—	—	0	0	—	—
Subtotal soil, sand, gravel, rock and stone	424	45	119	—	52	—	208	—	—
4331 sand & gravel	424	45	119	—	52	—	208	—	—
Subtotal marine shells	7	—	—	—	—	7	—	—	—
4515 marine shells	7	—	—	—	—	7	—	—	—

CARQUINEZ STRAIT, CA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total primary manufactured goods	1	---	---	---	---	1	---	---	---
Subtotal lime, cement and glass	1	---	---	---	---	1	---	---	---
5290 misc. mineral prod.	1	---	---	---	---	1	---	---	---
Total food and farm products	75	---	---	---	---	70	---	5	---
Subtotal other agricultural products	75	---	---	---	---	70	---	5	---
6861 sugar	5	---	---	---	---	---	---	5	---
6865 molasses	70	---	---	---	---	70	---	---	---
Ton-miles Internal (x1000)	37,219	24,742	150	14	2,929	4,846	3,395	672	471
Tons All Traffic (x1000)				20,421					
Ton-miles All Traffic (x1000)				132,325					

*Includes 1 (x1000) tons of foreign outbound in-transits.

SUISUN BAY CHANNEL, CA

Section Included: Suisun Bay Channel from Suisun Point at west end of Benicia-Martinez Bridge to East Reach of Middleground Island thence to mouth of New York Slough. Controlling Depth: 35.0 feet from Suisun Point to Avon Wharf; 35.0 feet to Preston Point; 35.0 feet to Middle Point; 35.0 feet through East Reach Middleground Island, 38.0 feet to mouth of New York Slough, 35.0 feet thru New York Slough. Project Depth: 35 feet from Benicia-Martinez Bridge to Avon Pier, 30 feet for remainder of channel.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	8,356	1991	7,289	1994	7,556	1997	6,752
1989	7,508	1992	6,340	1995	7,012		
1990	8,156	1993	7,133	1996	7,407		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign				Canadian	
		Imports	Exports	Through		Imports	Through Upbound
				Upbound	Downbnd		
Total, all commodities	4,555	122	433	1,830	1,857	27	286
Total coal	74	---	---	---	74	---	---
1100 coal lignite	74	---	---	---	74	---	---
Total petroleum and petroleum products	1,143	122	433	---	588	---	---
Subtotal crude petroleum	103	103	---	---	---	---	---
2100 crude petroleum	103	103	---	---	---	---	---
Subtotal petroleum products	1,041	20	433	---	588	---	---
2211 gasoline	160	---	160	---	---	---	---
2330 distillate fuel oil	57	8	49	---	---	---	---
2340 residual fuel oil	215	---	215	---	---	---	---
2350 lube oil & greases	0	---	---	---	0	---	---
2429 naphtha & solvents	21	12	9	---	---	---	---
2540 petroleum coke	587	---	---	---	587	---	---
Total chemicals and related products	773	---	---	457	3	27	286
Subtotal fertilizers	435	---	---	410	0	---	25
3110 nitrogenous fert.	358	---	---	333	---	---	25
3190 fert. & mixes nec	77	---	---	77	0	---	---
Subtotal other chemicals and related products	338	---	---	48	3	27	260
3219 other hydrocarbons	0	---	---	---	0	---	---
3220 alcohols	0	---	---	---	0	---	---
3230 carboxylic acids	0	---	---	0	0	---	---
3240 nitrogen func. comp.	0	---	---	0	0	---	---
3250 organo-inorganic comp.	0	---	---	---	0	---	---
3260 organic comp. nec	31	---	---	4	0	27	---
3273 ammonia	273	---	---	24	---	---	249
3274 sodium hydroxide	15	---	---	3	0	---	12
3275 inorg. elem. oxides, & halogen salts	0	---	---	---	0	---	---
3276 metallic salts	16	---	---	16	0	---	---
3282 pigments & paints	0	---	---	---	0	---	---
3283 coloring mat. nec	0	---	---	---	0	---	---
3284 medicines	0	---	---	0	0	---	---
3285 perfumes & cleansers	0	---	---	---	0	---	---
3286 plastics	1	---	---	0	1	---	---
3291 pesticides	0	---	---	---	0	---	---
3292 starches, gluten, glue	0	---	---	0	0	---	---
3297 chemical additives	0	---	---	---	0	---	---

SUISUN BAY CHANNEL, CA
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Total	Foreign				Canadian	
		Imports	Exports	Through Upbound	Downbnd	Imports	Through Upbound
3299 chem. products nec	0	—	—	—	0	—	—
Total crude materials, inedible except fuels	937	—	—	359	578	—	—
Subtotal forest products, wood and chips	322	—	—	—	322	—	—
4161 wood chips	309	—	—	—	309	—	—
4170 wood in the rough	13	—	—	—	13	—	—
4189 lumber	0	—	—	—	0	—	—
4190 forest products nec	0	—	—	—	0	—	—
Subtotal pulp and waste paper	0	—	—	—	0	—	—
4225 pulp & waste paper	0	—	—	—	0	—	—
Subtotal soil, sand, gravel, rock and stone	358	—	—	354	4	—	—
4323 gypsum	354	—	—	354	—	—	—
4327 phosphate rock	4	—	—	—	4	—	—
4331 sand & gravel	0	—	—	—	0	—	—
Subtotal iron ore and scrap	34	—	—	—	34	—	—
4420 iron & steel scrap	34	—	—	—	34	—	—
Subtotal non-ferrous ores and scrap	3	—	—	3	0	—	—
4680 non-ferrous scrap	3	—	—	3	—	—	—
4690 non-ferrous ores nec	1	—	—	1	0	—	—
Subtotal sulphur, clay and salt	218	—	—	—	218	—	—
4741 sulphur, (dry)	206	—	—	—	206	—	—
4782 clay & refrac. mat.	12	—	—	—	12	—	—
Subtotal other non-metal. min.	1	—	—	1	—	—	—
4900 non-metal. min. nec	1	—	—	1	—	—	—
Total primary manufactured goods	887	—	—	854	33	—	—
Subtotal paper products	8	—	—	8	0	—	—
5110 newsprint	8	—	—	8	0	—	—
5120 paper & paperboard	0	—	—	0	0	—	—
5190 paper products nec	0	—	—	0	0	—	—
Subtotal lime, cement and glass	1	—	—	1	0	—	—
5240 glass & glass prod.	1	—	—	1	0	—	—
5290 misc. mineral prod.	1	—	—	0	0	—	—
Subtotal primary iron and steel products	876	—	—	845	32	—	—
5330 i&s plates & sheets	841	—	—	841	—	—	—
5370 i&s pipe & tube	36	—	—	4	32	—	—
5390 primary i&s nec	0	—	—	0	—	—	—
Subtotal primary non-ferrous metal products	1	—	—	0	1	—	—
5421 copper	0	—	—	—	0	—	—
5422 aluminum	0	—	—	0	0	—	—
5429 smelted prod. nec	1	—	—	—	1	—	—
5480 fab. metal products	0	—	—	0	0	—	—
Total food and farm products	732	—	—	156	576	—	—
Subtotal grain	535	—	—	—	535	—	—
6241 wheat	80	—	—	—	80	—	—
6442 rice	454	—	—	—	454	—	—
Subtotal oilseeds	53	—	—	16	37	—	—
6590 oilseeds nec	53	—	—	16	37	—	—
Subtotal vegetable products	0	—	—	0	0	—	—
6654 vegetables & prod.	0	—	—	0	0	—	—
Subtotal processed grain and animal feed	0	—	—	0	0	—	—
6747 grain mill products	0	—	—	—	0	—	—
6781 hay & fodder	0	—	—	—	0	—	—
6782 animal feed, prep.	0	—	—	0	0	—	—
Subtotal other agricultural products	144	—	—	139	4	—	—
6811 meat, fresh, frozen	0	—	—	—	0	—	—
6838 tallow, animal oils	2	—	—	—	2	—	—
6857 fruit & nuts nec	1	—	—	—	1	—	—
6858 fruit juices	0	—	—	—	0	—	—
6865 molasses	138	—	—	138	—	—	—
6871 coffee	0	—	—	0	—	—	—
6885 alcoholic beverages	1	—	—	0	0	—	—
6888 water & ice	1	—	—	1	—	—	—
6889 food products nec	0	—	—	0	0	—	—
6891 tobacco & products	0	—	—	—	0	—	—
6899 farm products nec	0	—	—	—	0	—	—
Total all manufactured equipment, machinery and products	9	—	—	4	5	—	—
7110 machinery (not elec)	1	—	—	0	1	—	—
7120 electrical machinery	0	—	—	0	0	—	—
7210 vehicles & parts	6	—	—	4	2	—	—
7220 aircraft & parts	0	—	—	—	0	—	—
7230 ships & boats	0	—	—	—	0	—	—
7400 manufac. wood prod.	0	—	—	0	0	—	—
7500 textile products	1	—	—	0	1	—	—
7600 rubber & plastic pr.	1	—	—	0	1	—	—
7900 manufac. prod. nec	0	—	—	0	0	—	—
Total unknown or not elsewhere classified	0	—	—	—	0	—	—
9900 unknown or nec	0	—	—	—	0	—	—

SUISUN BAY CHANNEL, CA
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Total	Foreign				Canadian	
		Imports	Exports	Through		Imports	Through Upbound
				Upbound	Downbnd		
Ton-miles (x1000) Foreign & Canadian	60,749	245	867	27,448	27,850	53	4,287

Commodity	Total	Coastwise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Total, all commodities	824	42	524	257	1
Total petroleum and petroleum products	548	25	524	---	---
Subtotal crude petroleum	10	---	10	---	---
2100 crude petroleum	10	---	10	---	---
Subtotal petroleum products	539	25	514	---	---
2211 gasoline	303	---	303	---	---
2330 distillate fuel oil	163	15	148	---	---
2340 residual fuel oil	72	10	62	---	---
Total chemicals and related products	270	17	0	252	1
Subtotal fertilizers	104	---	---	104	---
3110 nitrogenous fert.	104	---	---	104	---
Subtotal other chemicals and related products	166	17	0	148	1
3272 sulphuric acid	0	---	---	---	0
3273 ammonia	134	---	---	134	0
3274 sodium hydroxide	15	---	---	14	1
3293 explosives	0	---	0	---	---
3297 chemical additives	17	17	---	---	---
Total all manufactured equipment, machinery and products	5	---	---	5	---
7800 empty containers	5	---	---	5	---
Ton-miles (x1000) Coastwise	4,994	83	1,041	3,855	15

Commodity	Total	Internal			
		Inbound Upbound	Outbound Upbound	Downbnd	Through Upbound
Total petroleum and petroleum products	941	623	---	317	---
Subtotal crude petroleum	511	511	---	---	---
2100 crude petroleum	511	511	---	---	---
Subtotal petroleum products	429	112	---	317	---
2211 gasoline	76	---	---	76	---
2330 distillate fuel oil	54	30	---	24	---
2340 residual fuel oil	232	58	---	174	---
2350 lube oil & greases	49	25	---	24	---
2429 naphtha & solvents	18	---	---	18	---
Total crude materials, inedible except fuels	362	0	28	327	7
Subtotal forest products, wood and chips	0	0	---	---	0
4170 wood in the rough	0	0	---	---	0
Subtotal soil, sand, gravel, rock and stone	355	---	28	327	---
4331 sand & gravel	355	---	28	327	---
Subtotal marine shells	7	---	---	---	7
4515 marine shells	7	---	---	---	7
Total primary manufactured goods	1	---	---	---	1
Subtotal lime, cement and glass	1	---	---	---	1
5290 misc. mineral prod.	1	---	---	---	1
Total food and farm products	70	---	---	---	70
Subtotal other agricultural products	70	---	---	---	70
6865 molasses	70	---	---	---	70
Ton-miles (x1000) Internal	5,347	736	194	3,250	1,168

Tons All Traffic (x1000) 6,752
Ton-miles All Traffic (x1000) 71,091

HUMBOLDT HARBOR AND BAY, CA

Section Included: Entrance channel to bay and channels in bay between Arcata Wharf on the north and Fields Landing on the south. Controlling Depth: Bar entrance channel, 45.1 feet; channel between the jetties, 35.0 feet; channel at intersection of Fields Landing and North Bay Channel, 27.5 feet, North Bay Channel, 34.8 feet to Standard Oil Wharf at Bucksport, 34.5 feet for remainder of channel; Samoa Channel, 34.6 feet; 30.0 feet in Samoa Turning Basin; Eureka Channel, 29.3 feet to angle in channel, 11.5 feet to "D" Street, 8.9 feet to head of project; Fields Landing Channel, 26.3 feet to Buhne Point, 29.6 feet at Buhne Point; 28.0 feet to turning basin, 28.5 feet in turning basin, 19.6 feet in southeast corner of turning basin. Project Depth: Entrance channel, 40 feet; North Bay, Samoa, and lower portion of Eureka Channel 30 feet, upper portion of Eureka Channel and Fields Landing Channel, 26 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	3,734	1991	2,301	1994	1,407	1997	1,175
1989	1,763	1992	1,311	1995	1,220		
1990	1,600	1993	994	1996	1,197		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Imports	Exports	Exports	Total	Coastwise	
						Receipts	Shipments
Total, all commodities	1,175	5	640	2	528	278	251
Total petroleum and petroleum products	275	---	---	---	275	275	---
Subtotal petroleum products	275	---	---	---	275	275	---
2211 gasoline	266	---	---	---	266	266	---
2330 distillate fuel oil	8	---	---	---	8	8	---
Total chemicals and related products	10	---	7	---	3	3	---
Subtotal fertilizers	7	---	7	---	---	---	---
3120 phosphatic fert.	2	---	2	---	---	---	---
3190 fert. & mixes nec	5	---	5	---	---	---	---
Subtotal other chemicals and related products	3	---	0	---	3	3	---
3274 sodium hydroxide	3	---	---	---	3	3	---
3286 plastics	0	---	0	---	---	---	---
Total crude materials, inedible except fuels	890	4	633	2	251	---	251
Subtotal forest products, wood and chips	685	4	430	---	251	---	251
4161 wood chips	613	---	363	---	251	---	251
4170 wood in the rough	72	4	67	---	---	---	---
Subtotal pulp and waste paper	205	---	203	2	---	---	---
4225 pulp & waste paper	205	---	203	2	---	---	---
Total primary manufactured goods	0	---	0	---	---	---	---
Subtotal paper products	0	---	0	---	---	---	---
5120 paper & paperboard	0	---	0	---	---	---	---
5190 paper products nec	0	---	0	---	---	---	---
Total food and farm products	0	---	0	---	---	---	---
Subtotal vegetable products	0	---	0	---	---	---	---
6654 vegetables & prod.	0	---	0	---	---	---	---
Subtotal other agricultural products	0	---	0	---	---	---	---
6857 fruit & nuts nec	0	---	0	---	---	---	---
Total all manufactured equipment, machinery and products	0	0	0	---	---	---	---
7110 machinery (not elec)	0	---	0	---	---	---	---
7210 vehicles & parts	0	---	0	---	---	---	---
7500 textile products	0	0	---	---	---	---	---
Total unknown or not elsewhere classified	0	---	0	---	---	---	---
9900 unknown or nec	0	---	0	---	---	---	---

Other Harbors and Waterways 1997

Harbor or Waterway Project	Commodity	Thousand Short Tons
BERKELEY, CA	No Commerce Reported	
BODEGA BAY, CA	No Commerce Reported	
CRESCENT CITY HARBOR, CA	No Commerce Reported	
MONTEREY HARBOR, CA	No Commerce Reported	
MOSS LANDING HARBOR, CA	No Commerce Reported	
NAPA RIVER, CA	4331 sand & gravel	51
	Total Tons(x1000)	51
	Total Ton-miles(x1000)	101
NOYO RIVER, CA	No Commerce Reported	
PETALUMA RIVER, CA	4331 sand & gravel	198
	4515 marine shells	15
	5290 misc. mineral prod.	2
	Total Tons(x1000)	216
	Total Ton-miles(x1000)	2,186
PILLAR POINT HARBOR, CA	No Commerce Reported	
SAN RAFAEL CREEK, CA	No Commerce Reported	
SANTA CRUZ HARBOR, CA	No Commerce Reported	
SUISUN CHANNEL, CA	No Commerce Reported	
Non-project		
OTHER SAN FRANCISCO BAY AREA PORTS, CA (NET)	2100 crude petroleum	9,635
	2211 gasoline	34
	2330 distillate fuel oil	85
	2340 residual fuel oil	326
	2350 lube oil & greases	9
	2429 naphtha & solvents	113
	2430 asphalt, tar & pitch	14
	2540 petroleum coke	23
	3260 organic comp. nec	24
	3297 chemical additives	26
	4331 sand & gravel	1,150
	4515 marine shells	23
	4741 sulphur, (dry)	7
	5290 misc. mineral prod.	2
	5330 i&s plates & sheets	1
	5480 fab. metal products	0
	6857 fruit & nuts nec	0
	6861 sugar	23
	6865 molasses	2
	6871 coffee	1
	6889 food products nec	0
	7110 machinery (not elec)	0
	7120 electrical machinery	0
	7210 vehicles & parts	1
	7400 manufac. wood prod.	0
	7600 rubber & plastic pr.	0
	7900 manufac. prod. nec	0
	Total Tons(x1000)	11,497

HILO HARBOR, HI

Section Included: Port of Hilo. Controlling Depth: 34.0 feet. Project Depth: 35 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	1,456	1991	1,556	1994	1,455	1997	1,489
1989	1,569	1992	1,588	1995	1,354		
1990	1,690	1993	1,469	1996	1,442		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign Imports	Domestic		
			Total	Coastwise	
				Receipts	Shipments
Total, all commodities	1,489	79	1,410	1,029	381
Total coal	73	73	---	---	---
1100 coal lignite	73	73	---	---	---
Total petroleum and petroleum products	326	---	326	326	---
Subtotal petroleum products	326	---	326	326	---
2211 gasoline	77	---	77	77	---
2330 distillate fuel oil	79	---	79	79	---
2340 residual fuel oil	150	---	150	150	---
2350 lube oil & greases	0	---	0	0	---
2640 liquid natural gas	19	---	19	19	---
2990 petro. products nec	2	---	2	2	---
Total chemicals and related products	27	0	27	24	3
Subtotal fertilizers	23	---	23	20	3
3190 fert. & mixes nec	23	---	23	20	3
Subtotal other chemicals and related products	4	0	4	4	0
3281 radioactive material	0	---	0	---	0
3282 pigments & paints	1	---	1	1	---
3284 medicines	0	---	0	0	---
3285 perfumes & cleansers	2	---	2	2	---
3286 plastics	0	---	0	0	---
3291 pesticides	0	---	0	0	---
3292 starches, gluten, glue	0	0	---	---	---
3293 explosives	0	---	0	0	---
Total crude materials, inedible except fuels	46	6	40	32	8
Subtotal forest products, wood and chips	30	---	30	26	4
4189 lumber	29	---	29	25	4
4190 forest products nec	1	---	1	1	---
Subtotal pulp and waste paper	0	---	0	0	---
4225 pulp & waste paper	0	---	0	0	---
Subtotal soil, sand, gravel, rock and stone	7	6	1	1	---
4331 sand & gravel	6	6	---	---	---
4338 soil & fill dirt	1	---	1	1	---
Subtotal iron ore and scrap	9	---	9	5	4
4420 iron & steel scrap	9	---	9	5	4
Subtotal other non-metal. min.	1	---	1	0	0
4900 non-metal. min. nec	1	---	1	0	0
Total primary manufactured goods	621	0	621	350	271
Subtotal paper products	17	---	17	17	0
5120 paper & paperboard	1	---	1	1	---
5190 paper products nec	16	---	16	16	0
Subtotal lime, cement and glass	18	0	18	18	0
5220 cement & concrete	15	---	15	15	---
5240 glass & glass prod.	0	---	0	0	0
5290 misc. mineral prod.	3	0	3	3	---
Subtotal primary iron and steel products	1	---	1	1	0
5360 i&s bars & shapes	1	---	1	1	0
5370 i&s pipe & tube	0	---	0	0	0
Subtotal primary non-ferrous metal products	579	0	579	309	271
5480 fab. metal products	579	0	579	309	271
Subtotal primary wood products	5	---	5	5	---
5540 primary wood prod.	5	---	5	5	---
Total food and farm products	142	0	141	112	30
Subtotal fish	0	0	0	0	---
6134 fish (not shellfish)	0	0	0	0	---
6136 shellfish	0	0	---	---	---
Subtotal grain	4	---	4	4	---
6442 rice	4	---	4	4	---
Subtotal vegetable products	14	---	14	7	7
6654 vegetables & prod.	14	---	14	7	7
Subtotal processed grain and animal feed	6	---	6	6	---
6746 wheat flour	1	---	1	1	---
6747 grain mill products	0	---	0	0	---
6781 hay & fodder	0	---	0	0	---
6782 animal feed, prep.	6	---	6	6	---
Subtotal other agricultural products	116	0	116	93	23
6811 meat, fresh, frozen	8	0	8	8	0
6822 dairy products	2	0	2	2	---
6839 animals & prod. nec	6	---	6	1	5
6857 fruit & nuts nec	1	---	1	1	0
6858 fruit juices	1	---	1	0	1
6861 sugar	0	---	0	0	---
6871 coffee	0	---	0	0	0
6885 alcoholic beverages	9	0	9	9	---
6887 groceries	11	---	11	11	0

HILO HARBOR, HI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign Imports	Domestic		
			Total	Coastwise	
				Receipts	Shipments
6889 food products nec	73	—	73	61	11
6899 farm products nec	5	—	5	0	5
Total all manufactured equipment, machinery and products	254	0	254	185	69
7110 machinery (not elec)	5	0	5	3	2
7120 electrical machinery	1	—	1	1	0
7210 vehicles & parts	120	—	120	88	32
7220 aircraft & parts	0	—	0	0	0
7230 ships & boats	0	—	0	0	0
7400 manufac. wood prod.	1	0	1	1	0
7500 textile products	1	—	1	1	—
7600 rubber & plastic pr.	0	—	0	0	0
7900 manufac. prod. nec	127	0	127	92	35
Total unknown or not elsewhere classified	0	—	0	0	—
9900 unknown or nec	0	—	0	0	—

KAWAIHAE HARBOR, HI

Section Included: Port of Kawaihae. Controlling Depth: 42.0 feet in entrance channel and 36.0 feet in harbor basin. Project Depth: Harbor basin 35 feet; entrance channel 40 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	655	1991	745	1994	736	1997	980
1989	732	1992	790	1995	873		
1990	887	1993	655	1996	969		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Coastwise	
		Receipts	Shipments
Total, all commodities	980	636	344
Total petroleum and petroleum products	7	7	—
Subtotal petroleum products	7	7	—
2211 gasoline	7	7	—
2990 petro. products nec	0	0	—
Total chemicals and related products	4	4	0
Subtotal fertilizers	3	3	0
3190 fert. & mixes nec	3	3	0
Subtotal other chemicals and related products	1	1	0
3282 pigments & paints	0	0	—
3284 medicines	0	0	—
3285 perfumes & cleansers	0	0	0
3286 plastics	1	1	0
3291 pesticides	0	0	—
3293 explosives	0	0	—
Total crude materials, inedible except fuels	30	23	7
Subtotal forest products, wood and chips	19	12	7
4189 lumber	19	12	7
4190 forest products nec	0	0	—
Subtotal pulp and waste paper	0	0	0
4225 pulp & waste paper	0	0	0
Subtotal soil, sand, gravel, rock and stone	6	6	—
4331 sand & gravel	6	6	—
4338 soil & fill dirt	0	0	—
Subtotal iron ore and scrap	6	5	0
4420 iron & steel scrap	6	5	0
Subtotal other non-metal. min.	0	0	—
4900 non-metal. min. nec	0	0	—
Total primary manufactured goods	655	410	245
Subtotal paper products	3	3	0
5120 paper & paperboard	0	0	—
5190 paper products nec	3	3	0
Subtotal lime, cement and glass	27	27	0
5220 cement & concrete	22	22	—
5240 glass & glass prod.	0	0	0
5290 misc. mineral prod.	4	4	—
Subtotal primary iron and steel products	1	1	0
5360 i&s bars & shapes	0	0	0
5370 i&s pipe & tube	1	1	0
Subtotal primary non-ferrous metal products	623	378	245
5480 fab. metal products	623	378	245
Subtotal primary wood products	1	1	—
5540 primary wood prod.	1	1	—
Total food and farm products	76	59	17
Subtotal fish	0	0	—
6134 fish (not shellfish)	0	0	—

KAWAIHAE HARBOR, HI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Coastwise	
		Receipts	Shipments
Subtotal grain	1	1	---
6442 rice	1	1	---
Subtotal vegetable products	2	2	---
6654 vegetables & prod.	2	2	---
Subtotal processed grain and animal feed	8	8	---
6746 wheat flour	0	0	---
6747 grain mill products	0	0	---
6781 hay & fodder	0	0	---
6782 animal feed, prep.	7	7	---
Subtotal other agricultural products	66	49	17
6811 meat, fresh, frozen	1	1	---
6822 dairy products	0	0	---
6839 animals & prod. nec	14	4	10
6857 fruit & nuts nec	1	1	---
6861 sugar	0	0	---
6865 molasses	1	---	1
6871 coffee	0	0	0
6885 alcoholic beverages	9	9	---
6887 groceries	3	3	0
6889 food products nec	35	30	5
6899 farm products nec	2	1	1
Total all manufactured equipment, machinery and products	208	134	74
7110 machinery (not elec)	3	2	1
7120 electrical machinery	0	0	0
7210 vehicles & parts	122	74	48
7220 aircraft & parts	0	---	0
7230 ships & boats	0	0	---
7300 ordnance & access.	0	0	---
7400 manufac. wood prod.	1	1	0
7500 textile products	0	0	---
7600 rubber & plastic pr.	0	0	---
7900 manufac. prod. nec	81	56	25

KAHULUI HARBOR, MAUI, HI

Section Included: Port of Kahului. Controlling Depth: 34.0 feet. Project Depth: 35 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	2,157	1991	2,434	1994	2,368	1997	2,895
1989	2,279	1992	2,357	1995	2,586		
1990	2,409	1993	2,216	1996	2,828		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign	Canadian	Domestic		
		Imports	Imports	Total	Coastwise	
					Receipts	Shipments
Total, all commodities	2,895	25	4	2,866	1,768	1,098
Total coal	20	20	---	---	---	---
1100 coal lignite	20	20	---	---	---	---
Total petroleum and petroleum products	465	---	---	465	465	0
Subtotal petroleum products	465	---	---	465	465	0
2211 gasoline	110	---	---	110	110	---
2330 distillate fuel oil	206	---	---	206	206	---
2340 residual fuel oil	132	---	---	132	132	---
2350 lube oil & greases	1	---	---	1	1	0
2640 liquid natural gas	14	---	---	14	14	---
2990 petro. products nec	1	---	---	1	1	---
Total chemicals and related products	29	---	1	28	27	1
Subtotal fertilizers	21	---	1	20	19	1
3110 nitrogenous fert.	3	---	1	2	2	---
3190 fert. & mixes nec	18	---	---	18	18	1
Subtotal other chemicals and related products	8	---	---	8	8	0
3274 sodium hydroxide	2	---	---	2	2	---
3275 inorg. elem., oxides, & halogen salts	0	---	---	0	0	---
3282 pigments & paints	1	---	---	1	1	0
3284 medicines	0	---	---	0	0	---
3285 perfumes & cleansers	2	---	---	2	2	---
3286 plastics	2	---	---	2	2	---
3291 pesticides	1	---	---	1	1	---
3293 explosives	0	---	---	0	0	---
Total crude materials, inedible except fuels	136	5	---	131	120	11
Subtotal forest products, wood and chips	34	---	---	34	28	6
4189 lumber	34	---	---	34	28	6
4190 forest products nec	0	---	---	0	0	---
Subtotal pulp and waste paper	0	---	---	0	0	0
4225 pulp & waste paper	0	---	---	0	0	0
Subtotal soil, sand, gravel, rock and stone	93	5	---	88	88	---
4323 gypsum	5	5	---	---	---	---

KAHULUI HARBOR, MAUI, HI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign	Canadian	Domestic		
		Imports	Imports	Total	Coastwise	
					Receipts	Shipments
4331 sand & gravel	88	---	---	88	88	---
4338 soil & fill dirt	1	---	---	1	1	---
Subtotal iron ore and scrap	7	---	---	7	2	5
4420 iron & steel scrap	7	---	---	7	2	5
Subtotal other non-metal. min.	1	---	---	1	1	---
4900 non-metal. min. nec	1	---	---	1	1	---
Total primary manufactured goods	1,296	---	3	1,293	732	561
Subtotal paper products	22	---	3	20	20	0
5110 newsprint	4	---	3	1	1	---
5120 paper & paperboard	1	---	---	1	1	---
5190 paper products nec	18	---	---	18	18	0
Subtotal lime, cement and glass	43	---	---	43	43	0
5220 cement & concrete	32	---	---	32	32	---
5240 glass & glass prod.	1	---	---	1	1	0
5290 misc. mineral prod.	11	---	---	11	11	---
Subtotal primary iron and steel products	7	---	---	7	7	---
5360 i&s bars & shapes	1	---	---	1	1	---
5370 i&s pipe & tube	6	---	---	6	6	---
Subtotal primary non-ferrous metal products	1,219	---	---	1,219	658	561
5480 fab. metal products	1,219	---	---	1,219	658	561
Subtotal primary wood products	5	---	---	5	5	---
5540 primary wood prod.	5	---	---	5	5	---
Total food and farm products	510	---	---	510	148	362
Subtotal fish	0	---	---	0	0	---
6134 fish (not shellfish)	0	---	---	0	0	---
Subtotal grain	3	---	---	3	3	0
6442 rice	3	---	---	3	3	0
Subtotal vegetable products	10	---	---	10	10	0
6654 vegetables & prod.	10	---	---	10	10	0
Subtotal processed grain and animal feed	12	---	---	12	12	---
6746 wheat flour	1	---	---	1	1	---
6747 grain mill products	0	---	---	0	0	---
6781 hay & fodder	0	---	---	0	0	---
6782 animal feed, prep.	10	---	---	10	10	---
Subtotal other agricultural products	485	---	---	485	122	362
6811 meat, fresh, frozen	7	---	---	7	7	0
6822 dairy products	2	---	---	2	2	---
6839 animals & prod. nec	4	---	---	4	2	2
6856 bananas & plantains	0	---	---	0	0	---
6857 fruit & nuts nec	1	---	---	1	1	---
6858 fruit juices	99	---	---	99	---	99
6861 sugar	178	---	---	178	0	177
6865 molasses	77	---	---	77	---	77
6871 coffee	0	---	---	0	0	0
6885 alcoholic beverages	19	---	---	19	19	0
6887 groceries	9	---	---	9	9	---
6889 food products nec	87	---	---	87	80	7
6891 tobacco & products	0	---	---	0	0	---
6899 farm products nec	1	---	---	1	1	0
Total all manufactured equipment, machinery and products	439	---	---	439	275	163
7110 machinery (not elec)	10	---	---	10	6	5
7120 electrical machinery	1	---	---	1	1	---
7210 vehicles & parts	225	---	---	225	124	100
7220 aircraft & parts	0	---	---	0	0	0
7230 ships & boats	0	---	---	0	0	0
7400 manufac. wood prod.	2	---	---	2	1	1
7500 textile products	0	---	---	0	0	0
7600 rubber & plastic pr.	1	---	---	1	1	0
7900 manufac. prod. nec	200	---	---	200	142	57
Total unknown or not elsewhere classified	0	---	---	0	0	---
9900 unknown or nec	0	---	---	0	0	---

BARBERS POINT HARBOR, OAHU, HI

Section Included: Barbers Point Harbor. Controlling Depth: 42 feet in the entrance channel and 37 feet in the main access channel and basin.
 Projects Depth: 42 feet in the entrance channel; 38 feet in the deep-draft harbor main access channel and basin; 21 feet in light-draft harbor basin.
 Deep draft anchorage(foreign and pipeline).

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	7,511	1991	9,002	1994	9,022	1997	8,162
1989	7,374	1992	8,824	1995	8,233		
1990	8,034	1993	9,357	1996	8,745		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			Internal Intra Upbound
		Imports	Exports	Imports	Total	Coastwise		
						Receipts	Shipments	
Total, all commodities	8,162	4,242	873	18	3,030	2,298	721	11
Total coal	568	568	---	---	---	---	---	---
1100 coal lignite	568	568	---	---	---	---	---	---
Total petroleum and petroleum products	7,132	3,374	769	18	2,972	2,286	675	11
Subtotal crude petroleum	5,634	3,356	---	---	2,278	2,278	---	---
2100 crude petroleum	5,634	3,356	---	---	2,278	2,278	---	---
Subtotal petroleum products	1,498	17	769	18	695	9	675	11
2211 gasoline	218	---	31	18	170	4	166	---
2221 kerosene	17	17	---	---	---	---	---	---
2330 distillate fuel oil	237	---	97	---	140	1	140	0
2340 residual fuel oil	350	---	---	---	350	4	336	9
2350 lube oil & greases	2	---	---	---	2	---	0	2
2429 naphtha & solvents	641	---	641	---	---	---	---	---
2640 liquid natural gas	33	---	---	---	33	---	33	---
Total chemicals and related products	0	0	0	---	---	---	---	---
Subtotal other chemicals and related products	0	0	0	---	---	---	---	---
3285 perfumes & cleansers	0	0	---	---	---	---	---	---
3286 plastics	0	---	0	---	---	---	---	---
3292 starches, gluten, glue	0	0	---	---	---	---	---	---
Total crude materials, inedible except fuels	146	21	104	---	21	12	9	---
Subtotal forest products, wood and chips	0	0	0	---	---	---	---	---
4189 lumber	0	---	0	---	---	---	---	---
4190 forest products nec	0	0	---	---	---	---	---	---
Subtotal pulp and waste paper	0	---	0	---	---	---	---	---
4225 pulp & waste paper	0	---	0	---	---	---	---	---
Subtotal soil, sand, gravel, rock and stone	30	21	---	---	9	5	5	---
4323 gypsum	21	21	---	---	---	---	---	---
4331 sand & gravel	9	---	---	---	9	5	5	---
Subtotal iron ore and scrap	115	---	103	---	11	7	5	---
4420 iron & steel scrap	115	---	103	---	11	7	5	---
Subtotal other non-metal. min.	0	0	---	---	---	---	---	---
4900 non-metal. min. nec	0	0	---	---	---	---	---	---
Total primary manufactured goods	314	278	---	---	36	---	36	---
Subtotal paper products	0	0	---	---	---	---	---	---
5190 paper products nec	0	0	---	---	---	---	---	---
Subtotal lime, cement and glass	314	277	---	---	36	---	36	---
5220 cement & concrete	314	277	---	---	36	---	36	---
5240 glass & glass prod.	0	0	---	---	---	---	---	---
5290 misc. mineral prod.	0	0	---	---	---	---	---	---
Subtotal primary iron and steel products	0	0	---	---	---	---	---	---
5390 primary i&s nec	0	0	---	---	---	---	---	---
Subtotal primary non-ferrous metal products	0	0	---	---	---	---	---	---
5480 fab. metal products	0	0	---	---	---	---	---	---
Subtotal primary wood products	0	0	---	---	---	---	---	---
5540 primary wood prod.	0	0	---	---	---	---	---	---
Total food and farm products	1	1	0	---	---	---	---	---
Subtotal fish	0	0	---	---	---	---	---	---
6134 fish (not shellfish)	0	0	---	---	---	---	---	---
6136 shellfish	0	0	---	---	---	---	---	---
Subtotal vegetable products	0	0	---	---	---	---	---	---
6654 vegetables & prod.	0	0	---	---	---	---	---	---

BARBERS POINT HARBOR, OAHU, HI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			Internal Intra Upbound
		Imports	Exports	Imports	Total	Coastwise		
					Receipts	Shipments		
Subtotal processed grain and animal feed	0	0	0	---	---	---	---	
6746 wheat flour	0	---	0	---	---	---	---	
6747 grain mill products	0	0	---	---	---	---	---	
Subtotal other agricultural products	1	1	0	---	---	---	---	
6811 meat, fresh, frozen	0	0	---	---	---	---	---	
6822 dairy products	0	0	---	---	---	---	---	
6835 fish, prepared	0	0	---	---	---	---	---	
6857 fruit & nuts nec	0	0	---	---	---	---	---	
6858 fruit juices	0	0	0	---	---	---	---	
6885 alcoholic beverages	0	0	---	---	---	---	---	
6889 food products nec	0	0	0	---	---	---	---	
Total all manufactured equipment, machinery and products	1	0	0	---	1	0	0	
7110 machinery (not elec)	0	0	0	---	0	---	0	
7210 vehicles & parts	0	---	0	---	---	---	---	
7400 manufac. wood prod.	0	0	---	---	---	---	---	
7500 textile products	0	0	---	---	---	---	---	
7600 rubber & plastic pr.	0	---	---	---	0	0	---	
7900 manufac. prod. nec	1	0	---	---	0	0	0	

HONOLULU HARBOR, OAHU, HI

Section Included: Port of Honolulu. Controlling Depth: 45.0 feet in the entrance channel; 40.0 feet in the main harbor basin; 40.0 feet in Kapalama Basin; 40.0 feet in the connecting channel. Project Depth; 45.0 feet in the entrance channel; 40.0 feet in harbor basin, connecting channel; 23.0 feet in Kaihi Channel.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	10,655	1991	11,208	1994	11,672	1997	12,704
1989	10,360	1992	11,522	1995	11,545		
1990	11,341	1993	10,595	1996	12,010		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			Internal Intraport
		Imports*	Exports*	Imports	Total	Coastwise		
					Receipts	Shipments		
Total, all commodities	12,704	2,828	147	63	9,666	5,232	4,315	119
Total coal	81	81	---	---	---	---	---	---
1100 coal lignite	81	81	---	---	---	---	---	---
Total petroleum and petroleum products	3,512	2,593	45	22	852	328	413	111
Subtotal crude petroleum	2,351	2,351	---	---	---	---	---	---
2100 crude petroleum	2,351	2,351	---	---	---	---	---	---
Subtotal petroleum products	1,162	242	45	22	852	328	413	111
2211 gasoline	208	81	---	15	111	57	54	---
2221 kerosene	132	132	---	---	---	---	---	---
2330 distillate fuel oil	172	---	0	7	165	6	154	5
2340 residual fuel oil	543	---	---	---	543	245	191	106
2350 lube oil & greases	8	0	0	---	8	5	3	---
2410 petro. jelly & waxes	0	0	---	---	---	---	---	---
2429 naphtha & solvents	74	29	45	---	---	---	---	---
2540 petroleum coke	0	---	0	---	0	0	---	---
2640 liquid natural gas	9	---	0	---	9	0	8	---
2990 petro. products nec	18	---	---	---	18	15	3	---
Total chemicals and related products	223	4	1	5	212	145	67	---
Subtotal fertilizers	116	0	1	4	111	59	52	---
3110 nitrogenous fert.	4	0	---	4	---	---	---	---
3130 potassic fert.	0	---	---	---	0	0	---	---
3190 fert. & mixes nec	112	0	1	---	111	59	52	---
Subtotal other chemicals and related products	107	4	1	0	101	86	15	---
3220 alcohols	0	---	---	---	0	0	0	---
3230 carboxylic acids	0	0	---	---	0	0	0	---
3240 nitrogen func. comp.	0	0	---	---	---	---	---	---
3250 organo-inorganic comp.	0	---	---	---	0	0	---	---
3260 organic comp. nec	0	0	0	---	0	0	0	---
3274 sodium hydroxide	8	---	---	0	8	8	---	---
3275 inorg. elem. oxides, & halogen salts	2	0	---	---	2	2	0	---
3276 metallic salts	0	0	---	---	0	---	0	---
3281 radioactive material	0	---	---	---	0	0	0	---
3282 pigments & paints	22	0	0	---	22	19	3	---

HONOLULU HARBOR, OAHU, HI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			Internal Intraport
		Imports*	Exports*	Imports	Total	Coastwise		
						Receipts	Shipments	
3283 coloring mat. nec	0	0	—	—	—	—	—	—
3284 medicines	5	0	0	—	5	5	0	—
3285 perfumes & cleansers	41	0	0	—	41	36	5	—
3286 plastics	10	0	1	—	9	6	3	—
3291 pesticides	4	0	—	—	3	2	1	—
3292 starches, gluten, glue	0	0	—	—	0	—	0	—
3293 explosives	3	2	—	—	1	1	0	—
3297 chemical additives	0	0	0	—	0	0	—	—
3298 wood & resin chem.	0	—	—	—	0	0	0	—
3299 chem. products nec	9	0	—	—	9	7	2	—
Total crude materials, inedible except fuels	530	15	82	—	432	195	229	8
Subtotal forest products, wood and chips	248	0	1	—	246	156	90	—
4110 rubber & gums	0	0	—	—	0	0	—	—
4150 fuel wood	1	0	—	—	1	1	—	—
4161 wood chips	0	—	—	—	0	0	—	—
4170 wood in the rough	3	0	0	—	3	3	—	—
4189 lumber	239	0	1	—	238	150	88	—
4190 forest products nec	4	0	0	—	4	2	1	—
Subtotal pulp and waste paper	58	—	43	—	14	14	0	—
4225 pulp & waste paper	58	—	43	—	14	14	0	—
Subtotal soil, sand, gravel, rock and stone	128	15	0	—	113	6	99	8
4310 building stone	0	0	0	—	0	—	0	—
4331 sand & gravel	120	15	0	—	106	1	97	8
4338 soil & fill dirt	7	—	—	—	7	5	2	—
Subtotal iron ore and scrap	78	—	33	—	45	8	37	—
4420 iron & steel scrap	78	—	33	—	45	8	37	—
Subtotal marine shells	0	0	—	—	—	—	—	—
4515 marine shells	0	0	—	—	—	—	—	—
Subtotal non-ferrous ores and scrap	1	0	1	—	0	0	0	—
4680 non-ferrous scrap	1	0	1	—	0	—	0	—
4690 non-ferrous ores nec	0	—	—	—	0	0	—	—
Subtotal sulphur, clay and salt	4	—	4	—	0	0	—	—
4741 sulphur, (dry)	4	—	4	—	—	—	—	—
4782 clay & refrac. mat.	0	—	—	—	0	0	—	—
Subtotal other non-metal. min.	13	0	—	—	13	11	2	—
4900 non-metal. min. nec	13	0	—	—	13	11	2	—
Total primary manufactured goods	3,685	30	2	15	3,639	1,816	1,823	0
Subtotal paper products	175	1	1	15	159	113	45	—
5110 newsprint	20	0	0	15	5	3	2	—
5120 paper & paperboard	43	0	0	—	42	40	3	—
5190 paper products nec	112	2	1	—	111	70	41	—
Subtotal lime, cement and glass	182	22	0	—	159	87	73	—
5220 cement & concrete	80	19	—	—	61	12	49	—
5240 glass & glass prod.	5	1	0	—	4	2	2	—
5290 misc. mineral prod.	96	2	0	—	94	73	21	—
Subtotal primary iron and steel products	41	4	0	—	37	26	12	—
5320 i&s primary forms	0	—	—	—	0	0	—	—
5330 i&s plates & sheets	0	0	—	—	0	0	—	—
5360 i&s bars & shapes	31	4	0	—	28	25	3	—
5370 i&s pipe & tube	9	—	0	—	9	1	9	—
5390 primary i&s nec	0	0	—	—	—	—	—	—
Subtotal primary non-ferrous metal products	3,230	2	0	0	3,228	1,548	1,680	0
5421 copper	0	0	—	—	—	—	—	—
5422 aluminum	0	0	0	—	0	0	—	—
5429 smelted prod. nec	0	0	—	—	0	0	0	—
5480 fab. metal products	3,230	2	0	0	3,228	1,548	1,680	0
Subtotal primary wood products	57	1	0	—	56	42	13	—
5540 primary wood prod.	57	1	0	—	56	42	13	—
Total food and farm products	2,130	62	13	21	2,034	1,323	711	—
Subtotal fish	10	5	0	—	5	4	1	—
6134 fish (not shellfish)	7	2	0	—	5	4	1	—
6136 shellfish	2	2	0	—	—	—	—	—
Subtotal grain	76	3	1	21	51	41	10	—
6241 wheat	21	—	—	21	0	0	—	—
6344 corn	0	—	—	—	0	0	—	—
6442 rice	55	3	1	—	51	41	10	—
Subtotal oilseeds	0	0	—	—	0	0	—	—
6522 soybeans	0	0	—	—	0	0	—	—
6590 oilseeds nec	0	0	—	—	0	0	—	—
Subtotal vegetable products	203	6	0	—	196	166	30	—
6653 vegetable oils	0	0	0	—	0	0	—	—
6654 vegetables & prod.	203	6	0	—	196	166	30	—
Subtotal processed grain and animal feed	143	3	3	—	138	105	33	—
6746 wheat flour	34	0	2	—	32	28	4	—
6747 grain mill products	6	2	0	—	3	3	0	—

HONOLULU HARBOR, OAHU, HI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			Internal Intraport
		Imports*	Exports*	Imports	Total	Coastwise		
						Receipts	Shipments	
6781 hay & fodder	7	—	0	—	7	6	1	—
6782 animal feed, prep.	97	0	0	—	96	68	28	—
Subtotal other agricultural products	1,698	46	9	0	1,643	1,007	636	—
6811 meat, fresh, frozen	121	6	1	0	114	95	19	—
6817 meat, prepared	11	0	0	—	11	11	0	—
6822 dairy products	34	0	0	—	34	29	5	—
6835 fish, prepared	2	2	0	—	—	—	—	—
6838 tallow, animal oils	0	—	—	—	0	0	—	—
6839 animals & prod. nec	46	0	0	—	46	29	17	—
6856 bananas & plantains	8	—	—	—	8	8	0	—
6857 fruit & nuts nec	94	2	0	—	91	88	4	—
6858 fruit juices	242	3	3	—	236	103	134	—
6861 sugar	2	0	0	—	2	2	0	—
6865 molasses	238	—	—	—	238	111	127	—
6871 coffee	10	1	0	—	9	5	3	—
6885 alcoholic beverages	207	28	0	0	179	133	46	—
6887 groceries	104	—	—	—	104	75	29	—
6888 water & ice	0	—	0	—	0	—	0	—
6889 food products nec	504	3	3	—	498	254	244	—
6891 tobacco & products	2	0	0	—	2	2	0	—
6893 cotton	0	—	0	—	0	0	—	—
6894 natural fibers nec	0	0	0	—	—	—	—	—
6899 farm products nec	72	0	—	—	72	63	9	—
Total all manufactured equipment, machinery and products	2,517	41	2	0	2,474	1,409	1,065	0
7110 machinery (not elec)	156	2	1	0	154	85	69	0
7120 electrical machinery	25	2	0	—	23	19	4	—
7210 vehicles & parts	900	18	0	—	882	421	460	—
7220 aircraft & parts	0	—	0	—	0	0	0	—
7230 ships & boats	1	0	0	—	1	1	0	—
7300 ordnance & access.	0	0	0	—	0	0	0	—
7400 manufac. wood prod.	27	1	0	—	26	14	11	—
7500 textile products	30	4	0	—	25	11	14	—
7600 rubber & plastic pr.	19	5	0	—	14	11	3	—
7900 manufac. prod. nec	1,358	10	0	0	1,348	845	503	0
Total unknown or not elsewhere classified	25	1	1	—	23	15	8	—
9900 unknown or nec	25	1	1	—	23	15	8	—

*Includes 10 (x1000) tons of foreign inbound in-transits; Includes 3 (x1000) tons of foreign outbound in-transits.

NAWILIWILI HARBOR, KAUAI, HI

Section Included: Port of Nawiliwili. Controlling Depth: 41.0 feet in the outer channel; 41.0 feet in the inner channel; 34.0 feet in the harbor basin.
Project Depth: 40 feet in the channel; 35 feet in the harbor basin.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	876	1991	1,005	1994	1,151	1997	1,091
1989	1,038	1992	1,143	1995	1,130		
1990	959	1993	1,283	1996	1,203		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Coastwise	
		Receipts	Shipments
Total, all commodities	1,091	550	540
Total petroleum and petroleum products	8	8	—
Subtotal petroleum products	8	8	—
2350 lube oil & greases	1	1	—
2640 liquid natural gas	7	7	—
2990 petro. products nec	0	0	—
Total chemicals and related products	12	12	1
Subtotal fertilizers	11	11	1
3190 fert. & mixes nec	11	11	1
Subtotal other chemicals and related products	1	1	0
3281 radioactive material	0	—	0
3282 pigments & paints	0	0	—
3284 medicines	0	0	—
3285 perfumes & cleansers	1	1	—
3286 plastics	0	0	—
3291 pesticides	0	0	—
3293 explosives	0	0	—

NAWILIWILI HARBOR, KAUAI, HI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Coastwise	
		Receipts	Shipments
Total crude materials, inedible except fuels	16	13	3
Subtotal forest products, wood and chips	14	12	2
4189 lumber	14	12	2
4190 forest products nec	0	0	—
Subtotal pulp and waste paper	0	0	0
4225 pulp & waste paper	0	0	0
Subtotal soil, sand, gravel, rock and stone	0	0	—
4338 soil & fill dirt	0	0	—
Subtotal iron ore and scrap	1	—	1
4420 iron & steel scrap	1	—	1
Subtotal other non-metal. min.	0	0	—
4900 non-metal. min. nec	0	0	—
Total primary manufactured goods	601	297	304
Subtotal paper products	4	3	0
5110 newsprint	0	0	—
5120 paper & paperboard	0	0	—
5190 paper products nec	3	3	0
Subtotal lime, cement and glass	17	17	0
5220 cement & concrete	14	14	—
5240 glass & glass prod.	0	0	0
5290 misc. mineral prod.	3	3	—
Subtotal primary iron and steel products	2	2	0
5360 i&s bars & shapes	1	1	0
5370 i&s pipe & tube	1	1	0
Subtotal primary non-ferrous metal products	578	274	304
5480 fab. metal products	578	274	304
Subtotal primary wood products	1	1	—
5540 primary wood prod.	1	1	—
Total food and farm products	229	74	155
Subtotal fish	0	0	—
6134 fish (not shellfish)	0	0	—
Subtotal grain	2	2	—
6442 rice	2	2	—
Subtotal vegetable products	4	4	0
6654 vegetables & prod.	4	4	0
Subtotal processed grain and animal feed	4	4	—
6746 wheat flour	0	0	—
6747 grain mill products	0	0	—
6781 hay & fodder	0	0	—
6782 animal feed, prep.	3	3	—
Subtotal other agricultural products	220	65	155
6811 meat, fresh, frozen	2	2	—
6822 dairy products	1	1	—
6839 animals & prod. nec	2	1	1
6857 fruit & nuts nec	0	0	—
6858 fruit juices	0	0	—
6861 sugar	116	0	116
6865 molasses	32	—	32
6871 coffee	2	0	2
6885 alcoholic beverages	8	8	—
6887 groceries	5	5	—
6889 food products nec	50	47	2
6891 tobacco & products	0	0	—
6899 farm products nec	1	1	0
Total all manufactured equipment, machinery and products	224	146	78
7110 machinery (not elec)	4	2	2
7120 electrical machinery	0	0	0
7210 vehicles & parts	117	70	47
7220 aircraft & parts	0	0	0
7230 ships & boats	0	0	0
7300 ordnance & access.	0	0	—
7400 manufac. wood prod.	1	0	0
7500 textile products	0	0	0
7600 rubber & plastic pr.	0	0	0
7900 manufac. prod. nec	102	74	28

Other Harbors and Waterways 1997

Harbor or Waterway Project	Commodity	Thousand Short Tons
HANA HARBOR, MAUI, HI	No Commerce Reported	
KAILUA HARBOR, OAHU, HI	No Commerce Reported	
KALAUPAPA HARBOR, MOLOKAI, HI	No Commerce Reported	
KAUNAKAKAI HARBOR, MOLOKAI, HI	4189 lumber	9
	4331 sand & gravel	5
	5190 paper products nec	0
	5220 cement & concrete	2
	5240 glass & glass prod.	0
	5360 i&s bars & shapes	0
	5370 i&s pipe & tube	0
	5480 fab. metal products	119
	6782 animal feed, prep.	0
	6839 animals & prod. nec	6
	6889 food products nec	6
	7210 vehicles & parts	45
	7300 ordnance & access.	0
7900 manufac. prod. nec	38	
	Total Tons(x1000)	231
PORT ALLEN HARBOR, KAUAI, HI	3110 nitrogenous fert.	2
	3274 sodium hydroxide	0
	Total Tons(x1000)	2
WAKE ISLAND HARBOR, WAKE ISLAND	2211 gasoline	0
	Total Tons(x1000)	0
WELLS HARBOR, MIDWAY ISLAND	No Commerce Reported	
Non-project		
PEARL HARBOR, OAHU, HI	2100 crude petroleum	87
	2211 gasoline	108
	2340 residual fuel oil	97
	5480 fab. metal products	0
	7110 machinery (not elec)	1
	7900 manufac. prod. nec	0
	9900 unknown or nec	0
	Total Tons(x1000)	292

COLUMBIA RIVER AND TRIBUTARIES ABOVE MCNARY LOCK AND DAM TO KENNEWICK, WA

Section Included: Columbia River and Tributaries, McNary Lock and Dam to Kennewick, WA. Controlling Depth: 20 feet. Project Depth: 14 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	7,819	1991	6,772	1994	7,927	1997	7,569
1989	6,073	1992	6,415	1995	8,582		
1990	6,359	1993	7,218	1996	7,705		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Domestic						
		Coastwise		Internal				
		Shipments	Through Upbound	Inbound Upbound	Outbound Upbound	Outbound Downbnd	Through Upbound	Through Downbnd
Total, all commodities	7,569	32	3	209	11	1,235	1,780	4,298
Total petroleum and petroleum products	1,680	---	---	---	---	---	1,676	4
Subtotal petroleum products	1,680	---	---	---	---	---	1,676	4
2211 gasoline	1,078	---	---	---	---	---	1,078	---
2330 distillate fuel oil	602	---	---	---	---	---	599	4
Total chemicals and related products	192	32	---	112	11	18	16	3
Subtotal fertilizers	62	32	---	---	9	18	---	3
3110 nitrogenous fert.	52	32	---	---	5	12	---	3
3190 fert. & mixes nec	10	---	---	---	4	5	---	---
Subtotal other chemicals and related products	130	---	---	112	2	---	16	0
3273 ammonia	101	---	---	83	2	---	16	---
3274 sodium hydroxide	29	---	---	29	---	---	---	---
3286 plastics	0	---	---	---	---	---	---	0
Total crude materials, inedible except fuels	544	---	2	---	---	4	---	538
Subtotal forest products, wood and chips	532	---	---	---	---	3	---	528
4161 wood chips	426	---	---	---	---	3	---	423
4170 wood in the rough	105	---	---	---	---	---	---	105
Subtotal pulp and waste paper	7	---	---	---	---	0	---	7
4225 pulp & waste paper	7	---	---	---	---	0	---	7
Subtotal sulphur, clay and salt	3	---	---	---	---	---	---	3
4782 clay & refrac. mat.	3	---	---	---	---	---	---	3
Subtotal other non-metal. min.	3	---	2	---	---	---	---	0
4900 non-metal. min. nec	3	---	2	---	---	---	---	0
Total primary manufactured goods	85	---	0	15	---	0	3	66
Subtotal paper products	45	---	---	---	---	---	0	45
5190 paper products nec	45	---	---	---	---	---	0	45
Subtotal lime, cement and glass	0	---	---	---	---	---	0	0
5290 misc. mineral prod.	0	---	---	---	---	---	0	0
Subtotal primary non-ferrous metal products	40	---	0	15	---	0	3	22
5422 aluminum	0	---	---	---	---	---	0	---
5480 fab. metal products	40	---	0	15	---	0	3	22
Total food and farm products	4,887	---	---	4	---	1,212	3	3,669
Subtotal grain	4,799	---	---	4	---	1,160	2	3,632
6241 wheat	4,378	---	---	4	---	1,131	2	3,241
6344 corn	2	---	---	0	---	1	---	---
6443 barley & rye	419	---	---	---	---	28	---	391
Subtotal vegetable products	39	---	---	---	---	10	0	29
6654 vegetables & prod.	39	---	---	---	---	10	0	29
Subtotal processed grain and animal feed	39	---	---	---	---	32	0	7
6747 grain mill products	7	---	---	---	---	---	0	7
6781 hay & fodder	32	---	---	---	---	32	---	---
Subtotal other agricultural products	10	---	---	---	---	10	---	0
6839 animals & prod. nec	10	---	---	---	---	10	---	0
Total all manufactured equipment, machinery and products	181	---	1	78	---	2	82	19
7110 machinery (not elec)	1	---	1	---	---	---	---	---
7120 electrical machinery	0	---	---	---	---	---	---	0
7230 ships & boats	0	---	---	---	---	---	---	0
7600 rubber & plastic pr.	0	---	---	---	---	---	0	0
7800 empty containers	180	---	---	78	---	2	82	19
7900 manufac. prod. nec	0	---	---	---	---	---	---	0
Total waste and scrap nec	0	---	---	---	---	0	---	---
8900 waste and scrap nec	0	---	---	---	---	0	---	---

COLUMBIA RIVER AND TRIBUTARIES ABOVE MCNARY LOCK AND DAM TO KENNEWICK, WA
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Domestic						
		Coastwise		Internal				
		Shipments	Through Upbound	Inbound Upbound	Outbound Upbound	Downbnd	Through Upbound	Through Downbnd
Ton-miles (x1000)	256,657	1,060	121	5,560	31	37,148	62,306	150,431

Tons All Traffic (x1000) **7,569**
Ton-miles All Traffic (x1000) **256,657**

SNAKE RIVER, OR, WA AND ID

Section Included: Mouth of Snake River to Johnson Bar Landing. Controlling Depth: 14 feet from mouth to Ice Harbor Lock Approach Channel; 14 feet in Ice Harbor Approach Channel; 14 feet within Ice Harbor pool; 14 feet in Lower Monumental approach channel; 14 feet within lower monumental pool; 14 feet in Little Goose Approach Channel; 14 feet within Little Goose Pool; 14 feet in Lower Granite Approach Channel; 14 feet within Lower Granite Pool; about 3 feet from head of Lower Granite Pool to Johnson Bar Landing. Project Depth: 14 feet from mouth to the Ice Harbor approach channel; 14 feet in Ice Harbor Channel; 14 feet within Ice Harbor pool; 14 feet in Lower Monumental Approach channel; 14 feet within Lower Monumental Pool; 14 feet in Little Goose Approach Channel; 14 feet in Little Goose channel; 14 feet within Little Goose pool; 14 feet in Lower Granite approach channel; 14 feet in Lower Granite Channel; 14 feet within Lower Granite Pool; 2 feet to Johnson Bar Landing.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	7,125	1991	5,053	1994	5,929	1997	6,103
1989	5,930	1992	4,719	1995	6,804		
1990	4,804	1993	5,339	1996	5,707		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Domestic							
		Coastwise		Internal					
		Receipts	Through Upbound	Inbound Upbound	Outbound Upbound	Downbnd	Through Upbound	Intra Upbound	
Total, all commodities	6,102	1	2	1,706	3	3,389	85	912	3
Total petroleum and petroleum products	1,683	---	---	1,676	---	4	---	---	3
Subtotal petroleum products	1,683	---	---	1,676	---	4	---	---	3
2211 gasoline	1,080	---	---	1,078	---	---	---	---	2
2330 distillate fuel oil	603	---	---	599	---	4	---	---	1
Total chemicals and related products	30	---	---	27	---	3	---	0	---
Subtotal fertilizers	12	---	---	9	---	3	---	---	---
3110 nitrogenous fert.	8	---	---	5	---	3	---	---	---
3190 fert. & mixes nec	4	---	---	4	---	---	---	---	---
Subtotal other chemicals and related products	19	---	---	19	---	---	---	0	---
3273 ammonia	19	---	---	19	---	---	---	---	---
3286 plastics	0	---	---	---	---	---	---	0	---
Total crude materials, inedible except fuels	540	---	2	---	---	428	---	109	---
Subtotal forest products, wood and chips	528	---	---	---	---	428	---	100	---
4161 wood chips	423	---	---	---	---	323	---	100	---
4170 wood in the rough	105	---	---	---	---	105	---	---	---
Subtotal pulp and waste paper	7	---	---	---	---	---	---	7	---
4225 pulp & waste paper	7	---	---	---	---	---	---	7	---
Subtotal sulphur, clay and salt	3	---	---	---	---	---	---	3	---
4782 clay & refrac. mat.	3	---	---	---	---	---	---	3	---
Subtotal other non-metal. min. non-metal. min. nec	3	---	2	---	---	---	---	0	---
4900 non-metal. min. nec	3	---	2	---	---	---	---	0	---

SNAKE RIVER, OR, WA AND ID
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Domestic								
		Coastwise		Internal						
		Receipts	Through Upbound	Inbound Upbound	Outbound Upbound	Downbnd	Through Upbound	Through Downbnd	Intra Upbound	
Total primary manufactured goods	70	0	---	---	---	---	---	3	66	---
Subtotal paper products	45	---	---	---	---	---	---	0	45	---
5190 paper products nec	45	---	---	---	---	---	---	0	45	---
Subtotal lime, cement and glass	0	---	---	---	---	---	---	0	0	---
5290 misc. mineral prod.	0	---	---	---	---	---	---	0	0	---
Subtotal primary non-ferrous metal products	25	0	---	---	---	---	---	3	22	---
5422 aluminum	0	---	---	---	---	---	---	0	---	---
5480 fab. metal products	25	0	---	---	---	---	---	3	22	---
Total food and farm products	3,678	---	---	2	3	2,951	0	0	721	---
Subtotal grain	3,641	---	---	2	3	2,951	0	0	685	---
6241 wheat	3,250	---	---	2	3	2,622	0	0	623	---
6443 barley & rye	391	---	---	---	---	329	---	---	62	---
Subtotal vegetable products	29	---	---	---	---	---	0	0	29	---
6654 vegetables & prod.	29	---	---	---	---	---	0	0	29	---
Subtotal processed grain and animal feed	7	---	---	---	---	---	0	0	7	---
6747 grain mill products	7	---	---	---	---	---	0	0	7	---
Subtotal other agricultural products	0	---	---	---	---	---	---	---	0	---
6839 animals & prod. nec	0	---	---	---	---	---	---	---	0	---
Total all manufactured equipment, machinery and products	101	1	---	---	---	4	82	15	15	---
7110 machinery (not elec)	1	1	---	---	---	---	---	---	---	---
7120 electrical machinery	0	---	---	---	---	---	---	---	0	---
7230 ships & boats	0	---	---	---	---	---	---	---	0	---
7600 rubber & plastic pr.	0	---	---	---	---	---	0	0	0	---
7800 empty containers	100	---	---	---	---	4	82	15	15	---
7900 manufac. prod. nec	0	---	---	---	---	---	---	---	0	---
Ton-miles (x1000)	418,532	4	362	20,424	407	251,281	12,429	133,203	421	
Tons All Traffic (x1000)				6,103						
Ton-miles All Traffic (x1000)				418,541						

TOTAL WATERBORNE COMMERCE, COLUMBIA RIVER BASIN, OR, WA, AND ID

Freight Traffic, 1997
(thousand short tons)

Locality	*Foreign		Domestic				Total	Percent	Through Traffic
	Imports	Exports	Coastwise		Internal				
			Receipts	Shipmnts	Receipts	Intraport			
CHINOOK CHANNEL, WA	---	---	---	---	1	---	1	0.00	---
CLATSKANIE RIVER, OR	---	---	---	---	---	---	---	0.00	---
COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER	4,174	26,503	3,981	596	11,776	2,236	49,265	74.52	3,832
COLUMBIA RIVER ABOVE THE DALLES DAM, WA AND OR	---	---	0	---	2,229	---	2,229	3.37	7,525
COLUMBIA RIVER AND TRIBUTARIES ABOVE MCNARY LOCK	---	---	---	32	1,455	---	1,487	2.25	6,082
COLUMBIA RIVER AT BAKERS BAY, WA	---	---	---	---	5	---	5	0.01	---
COLUMBIA RIVER BETWEEN VANCOUVER, WA AND THE DALLES	---	---	45	0	1,358	253	1,656	2.50	9,267
COLUMBIA RIVER BETWEEN WENATCHEE AND KETTLE FALLS	---	---	---	---	---	---	---	0.00	---
COWLITZ RIVER, WA	---	---	---	---	0	---	0	0.00	---
DEEP RIVER, WA	---	---	---	---	---	---	---	0.00	---
ELOKOMIN SLOUGH, WA	---	---	---	---	---	---	---	0.00	---
GRAYS RIVER, WA	---	---	---	---	---	---	---	0.00	---
LAKE RIVER, WA	---	---	---	---	---	5	5	0.01	---
LEWIS RIVER, WA	---	---	---	---	---	---	---	0.00	---
MULTNOMAH CHANNEL, OR	---	---	37	---	1,262	---	1,298	1.96	---
OREGON SLOUGH (NORTH PORTLAND HARBOR), OR	510	2,422	6	---	671	0	3,608	5.46	---
SKAMOKAWA (STEAMBOAT) SLOUGH, WA	---	---	---	---	---	---	---	0.00	---
SKAMOKAWA CREEK, WA	---	---	---	---	---	---	---	0.00	---
SKIPANON CHANNEL, OR	---	---	69	---	30	---	99	0.15	---
SNAKE RIVER, OR, WA AND ID	---	---	1	---	5,098	3	5,103	7.72	1,000
WESTPORT SLOUGH, OR	---	---	---	---	1	---	1	0.00	---
WILLAMETTE RIVER ABOVE PORTLAND AND YAMHILL RIVER	---	---	---	---	1,036	317	1,353	2.05	---
YOUNGS BAY AND YOUNGS RIVER, OR	---	---	---	---	---	---	---	0.00	---
TOTAL (UNADJUSTED)	4,683	28,925	4,139	629	24,920	2,814	66,111	---	27,706
PERCENT (UNADJUSTED)	7.08	43.75	6.26	0.95	37.69	4.26	---	100.00	---
NET VOLUME OF TONNAGE FOR THE BASIN**	4,683	28,925	4,139	629	12,992	2,814	54,183	---	2
PERCENT (ADJUSTED)	8.64	53.38	7.64	1.16	23.98	5.19	---	100.00	---

* Through traffic not credited as such to total tonnage for Basin, but credited to projects or rivers where shipped or received.
** Adjusted to net volume by excluding duplication of internal traffic moved between the separate waterways of the Basin.

COLUMBIA RIVER ENTRANCE, OR AND WA

Section Included: Columbia River at mouth, OR and WA. Controlling Depth: 56 feet left outside quarter, 58 feet left inside, 46 feet right inside, and 41 feet right outside at mlw. Sand Island range: 47 feet left outside, 54 feet left inside, 50 feet right inside, and 48 feet right outside at mlw. Project Depth: 55/48 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	39,194	1991	37,000	1994	37,065	1997	38,443
1989	41,439	1992	38,174	1995	44,041		
1990	38,472	1993	37,459	1996	38,799		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			Internal Through Upbound
		Through		Through		Total	Coastwise Through		
		Upbound	Downbnd	Upbound	Downbnd		Upbound	Downbnd	
Total, all commodities	38,443	3,988	28,709	696	216	4,834	4,142	629	64
Total coal	21	21	0	---	---	---	---	---	---
1100 coal lignite	21	21	0	---	---	---	---	---	---
1200 coal coke	0	---	0	---	---	---	---	---	---
Total petroleum and petroleum products	4,340	521	540	91	131	3,056	2,860	196	---
Subtotal crude petroleum	383	343	---	---	---	40	40	---	---
2100 crude petroleum	383	343	---	---	---	40	40	---	---
Subtotal petroleum products	3,957	178	540	91	131	3,016	2,820	196	---
2211 gasoline	1,894	64	---	67	6	1,757	1,651	106	---
2221 kerosene	6	---	---	---	6	---	---	---	---
2330 distillate fuel oil	538	9	0	19	---	510	482	28	---

COLUMBIA RIVER ENTRANCE, OR AND WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			Internal Through Upbound
		Through		Through		Total	Coastwise Through		
		Upbound	Downbnd	Upbound	Downbnd		Upbound	Downbnd	
2340 residual fuel oil	563	—	0	5	12	546	493	53	—
2350 lube oil & greases	62	0	4	—	—	58	58	—	—
2410 petro. jelly & waxes	1	0	1	—	—	—	—	—	—
2429 naphtha & solvents	9	—	0	—	—	9	—	9	—
2430 asphalt, tar & pitch	240	105	0	—	—	135	135	—	—
2540 petroleum coke	643	—	535	—	107	—	—	—	—
2640 liquid natural gas	0	—	0	—	—	—	—	—	—
2990 petro. products nec	0	—	—	—	—	0	0	—	—
Total chemicals and related products	4,666	186	3,863	10	82	526	340	185	—
Subtotal fertilizers	875	76	637	1	—	161	87	74	—
3110 nitrogenous fert.	438	67	209	1	—	161	87	74	—
3130 potassic fert.	427	—	427	—	—	—	—	—	—
3190 fert. & mixes nec	10	9	1	—	—	—	—	—	—
Subtotal other chemicals and related products	3,791	111	3,226	9	82	365	254	111	—
3211 acyclic hydrocarbons	1	—	1	—	—	—	—	—	—
3212 benzene & toluene	95	6	—	—	—	89	89	—	—
3219 other hydrocarbons	1	0	1	—	—	—	—	—	—
3220 alcohols	184	80	6	—	—	99	61	38	—
3230 carboxylic acids	4	0	4	—	—	—	—	—	—
3240 nitrogen func. comp.	5	0	5	—	0	—	—	—	—
3250 organo-inorganic comp.	2	0	2	—	—	—	—	—	—
3260 organic comp. nec	4	1	4	—	—	—	—	—	—
3272 sulphuric acid	0	0	0	—	—	—	—	—	—
3273 ammonia	104	0	0	—	—	103	103	—	—
3274 sodium hydroxide	195	—	93	—	35	68	—	68	—
3275 inorg. elem., oxides, & halogen salts	13	5	8	—	—	—	—	—	—
3276 metallic salts	3,069	4	3,018	—	47	—	—	—	—
3279 inorganic chem. nec	2	2	0	—	—	—	—	—	—
3281 radioactive material	0	0	0	—	—	—	—	—	—
3282 pigments & paints	3	0	3	—	—	—	—	—	—
3283 coloring mat. nec	1	0	1	—	—	—	—	—	—
3284 medicines	1	0	0	—	—	—	—	—	—
3285 perfumes & cleansers	8	3	5	—	—	—	—	—	—
3286 plastics	64	7	55	—	0	1	—	1	—
3291 pesticides	1	0	1	—	—	—	—	—	—
3292 starches, gluten, glue	7	0	6	—	—	—	—	—	—
3293 explosives	0	0	0	—	—	—	—	—	—
3297 chemical additives	3	0	3	—	—	—	—	—	—
3298 wood & resin chem.	19	0	7	9	—	4	—	4	—
3299 chem. products nec	6	1	5	—	—	—	—	—	—
Total crude materials, inedible except fuels	6,546	1,537	3,295	588	2	1,125	919	206	—
Subtotal forest products, wood and chips	3,413	114	2,381	55	2	861	655	206	—
4150 fuel wood	27	—	2	25	—	—	—	—	—
4161 wood chips	456	—	4	30	—	421	421	0	—
4170 wood in the rough	2,293	37	2,019	—	—	237	234	3	—
4189 lumber	638	77	356	—	2	203	—	203	—
4190 forest products nec	0	0	0	—	—	—	—	—	—

COLUMBIA RIVER ENTRANCE, OR AND WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			Internal Through Upbound
		Through		Through		Total	Coastwise		
		Upbound	Downbnd	Upbound	Downbnd		Upbound	Downbnd	
Subtotal pulp and waste paper	278	41	237	---	---	---	---	---	---
4225 pulp & waste paper	278	41	237	---	---	---	---	---	---
Subtotal soil, sand, gravel, rock and stone	542	0	10	532	---	---	---	---	---
4310 building stone	0	0	0	---	---	---	---	---	---
4322 limestone	533	---	1	532	---	---	---	---	---
4323 gypsum	1	---	1	---	---	---	---	---	---
4327 phosphate rock	1	---	1	---	---	---	---	---	---
4331 sand & gravel	7	---	7	---	---	---	---	---	---
Subtotal iron ore and scrap	128	---	128	---	---	---	---	---	---
4420 iron & steel scrap	128	---	128	---	---	---	---	---	---
Subtotal marine shells	0	0	---	---	---	---	---	---	---
4515 marine shells	0	0	---	---	---	---	---	---	---
Subtotal non-ferrous ores and scrap	1,208	994	214	---	---	---	---	---	---
4630 copper ore	134	---	134	---	---	---	---	---	---
4650 aluminum ore	994	993	1	---	---	---	---	---	---
4680 non-ferrous scrap	40	0	39	---	---	---	---	---	---
4690 non-ferrous ores nec	40	---	40	---	---	---	---	---	---
Subtotal sulphur, clay and salt	302	13	288	---	---	---	---	---	---
4741 sulphur, (dry)	42	---	42	---	---	---	---	---	---
4782 clay & refrac. mat.	259	13	246	---	---	---	---	---	---
Subtotal slag	1	---	1	---	---	---	---	---	---
4860 slag	1	---	1	---	---	---	---	---	---
Subtotal other non-metal. min.	675	375	36	---	---	264	264	---	---
4900 non-metal. min. nec	675	375	36	---	---	264	264	---	---
Total primary manufactured goods	2,212	1,143	1,011	0	0	58	22	36	---
Subtotal paper products	794	6	769	0	---	19	---	19	---
5110 newsprint	424	0	423	0	---	---	---	---	---
5120 paper & paperboard	339	5	334	---	---	---	---	---	---
5190 paper products nec	32	1	12	---	---	19	---	19	---
Subtotal lime, cement and glass	596	504	67	0	---	25	21	4	---
5220 cement & concrete	513	483	4	---	---	25	21	4	---
5240 glass & glass prod.	10	1	8	---	---	0	---	0	---
5290 misc. mineral prod.	74	19	55	0	---	---	---	---	---
Subtotal primary iron and steel products	589	569	13	---	0	8	---	8	---
5312 pig iron	119	118	1	---	---	---	---	---	---
5315 ferro alloys	59	51	9	---	---	---	---	---	---
5320 i&s primary forms	24	23	0	---	---	---	---	---	---
5330 i&s plates & sheets	167	165	2	---	---	0	---	0	---
5360 i&s bars & shapes	31	23	0	---	---	8	---	8	---
5370 i&s pipe & tube	57	57	1	---	0	---	---	---	---
5390 primary i&s nec	133	132	0	---	---	---	---	---	---
Subtotal primary non-ferrous metal products	64	30	32	---	---	2	1	2	---
5421 copper	3	0	2	---	---	---	---	---	---
5422 aluminum	20	0	19	---	---	---	---	---	---
5429 smelted prod. nec	4	2	2	---	---	---	---	---	---
5480 fab. metal products	37	27	8	---	---	2	1	2	---
Subtotal primary wood products	169	35	131	---	0	3	---	3	---
5540 primary wood prod.	169	35	131	---	0	3	---	3	---

COLUMBIA RIVER ENTRANCE, OR AND WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Through		Through		Total	Coastwise		Internal Through
		Upbound	Downbnd	Upbound	Downbnd		Upbound	Downbnd	
Total food and farm products	19,947	46	19,831	6	0	64	---	---	64
Subtotal fish	67	0	3	0	---	64	---	---	64
6134 fish (not shellfish)	63	0	3	0	---	59	---	---	59
6136 shellfish	4	---	0	---	---	4	---	---	4
Subtotal grain	18,068	2	18,060	6	---	---	---	---	---
6241 wheat	12,111	---	12,105	6	---	---	---	---	---
6344 corn	4,830	---	4,830	---	---	---	---	---	---
6442 rice	2	2	1	---	---	---	---	---	---
6443 barley & rye	924	---	924	---	---	---	---	---	---
6445 oats	0	---	0	---	---	---	---	---	---
6447 sorghum grains	201	---	201	---	---	---	---	---	---
Subtotal oilseeds	266	---	266	---	---	---	---	---	---
6521 peanuts	0	---	0	---	---	---	---	---	---
6522 soybeans	262	---	262	---	---	---	---	---	---
6590 oilseeds nec	3	---	3	---	---	---	---	---	---
Subtotal vegetable products	288	7	282	---	0	---	---	---	---
6653 vegetable oils	8	1	7	---	---	---	---	---	---
6654 vegetables & prod.	281	6	275	---	0	---	---	---	---
Subtotal processed grain and animal feed	1,071	2	1,070	---	0	---	---	---	---
6746 wheat flour	1	0	1	---	---	---	---	---	---
6747 grain mill products	69	1	67	---	0	---	---	---	---
6781 hay & fodder	364	---	364	---	---	---	---	---	---
6782 animal feed, prep.	637	0	637	---	---	---	---	---	---
Subtotal other agricultural products	186	35	150	0	0	---	---	---	---
6811 meat, fresh, frozen	14	---	14	---	---	---	---	---	---
6817 meat, prepared	11	---	11	---	---	---	---	---	---
6822 dairy products	9	0	9	---	0	---	---	---	---
6835 fish, prepared	4	0	3	---	---	---	---	---	---
6838 tallow, animal oils	0	---	0	---	---	---	---	---	---
6839 animals & prod. nec	33	0	33	---	---	---	---	---	---
6856 bananas & plantains	0	0	---	---	---	---	---	---	---
6857 fruit & nuts nec	10	1	10	---	---	---	---	---	---
6858 fruit juices	28	11	17	---	---	---	---	---	---
6861 sugar	0	---	0	---	---	---	---	---	---
6865 molasses	0	---	0	---	---	---	---	---	---
6871 coffee	1	0	0	---	---	---	---	---	---
6872 cocoa beans	0	0	0	---	---	---	---	---	---
6885 alcoholic beverages	25	19	6	0	---	---	---	---	---
6888 water & ice	1	1	0	---	---	---	---	---	---
6889 food products nec	21	2	19	---	---	---	---	---	---
6891 tobacco & products	1	---	1	---	---	---	---	---	---
6893 cotton	10	---	10	---	---	---	---	---	---
6899 farm products nec	19	1	18	---	---	---	---	---	---
Total all manufactured equipment, machinery and products	702	532	162	0	1	7	1	6	---
7110 machinery (not elec)	53	16	35	---	1	1	1	0	---
7120 electrical machinery	43	19	23	---	---	---	---	---	---
7210 vehicles & parts	482	436	46	---	---	0	0	0	---
7220 aircraft & parts	0	0	0	---	---	---	---	---	---
7230 ships & boats	1	0	0	---	0	0	---	0	---
7300 ordnance & access.	0	---	0	---	---	---	---	---	---
7400 manufac. wood prod.	14	2	12	---	---	0	---	0	---
7500 textile products	15	8	7	---	---	---	---	---	---
7600 rubber & plastic pr.	15	8	7	---	0	---	---	---	---
7800 empty containers	5	---	---	---	---	5	---	5	---
7900 manufac. prod. nec	74	42	32	0	0	0	---	0	---

COLUMBIA RIVER ENTRANCE, OR AND WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Through		Through		Total	Coastwise		Internal Through Upbound
		Upbound	Downbnd	Upbound	Downbnd		Upbound	Downbnd	
Total unknown or not elsewhere classified	9	2	7	1	---	---	---	---	
9900 unknown or nec	9	2	7	1	---	---	---	---	

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY (CONSOLIDATED REPORT)

Section Included: Mouth to International Boundary, a distance of 745 miles. Controlling Depth: 38 feet or better between mouth of Columbia River and mouth of Willamette River; 38 feet to lower turning basin, Vancouver, WA; other channel depths range from 15 to 4 feet. Project Depth: 55/48 feet across entrance bar; 40 feet from mouth of Columbia River to mouth of Willamette River; 40 feet from mouth of Willamette River to Vancouver; Other Project Depths range from 27 to 7 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	53,829	1991	50,446	1994	50,912	1997	52,722
1989	54,459	1992	51,641	1995	57,124		
1990	51,438	1993	51,243	1996	51,181		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports*	Through		Imports	Exports*	Through	
				Upbound	Downbnd			Upbound	Downbnd
Total, all commodities	33,608	1,269	15,622	2,719	13,087	44	135	651	81
Total coal	21	21	---	---	0	---	---	---	---
1100 coal lignite	21	21	---	---	0	---	---	---	---
1200 coal coke	0	---	---	---	0	---	---	---	---
Total petroleum and petroleum products	1,284	62	526	460	14	12	107	79	24
Subtotal crude petroleum	343	---	---	343	---	---	---	---	---
2100 crude petroleum	343	---	---	343	---	---	---	---	---
Subtotal petroleum products	941	62	526	116	14	12	107	79	24
2211 gasoline	138	---	---	64	---	5	---	63	6
2221 kerosene	6	---	---	---	---	---	---	---	6
2330 distillate fuel oil	28	---	---	9	0	3	---	16	---
2340 residual fuel oil	17	---	---	---	0	5	---	---	12
2350 lube oil & greases	4	---	0	0	4	---	---	---	---
2410 petro. jelly & waxes	1	---	---	0	1	---	---	---	---
2429 naphtha & solvents	0	---	---	---	0	---	---	---	---
2430 asphalt, tar & pitch	105	62	---	43	0	---	---	---	---
2540 petroleum coke	643	---	526	---	9	---	107	---	---
2640 liquid natural gas	0	---	---	---	0	---	---	---	---
Total chemicals and related products	4,141	104	856	82	3,007	1	25	9	57
Subtotal fertilizers	714	75	229	0	408	1	---	---	---
3110 nitrogenous fert.	277	67	99	---	110	1	---	---	---
3130 potassic fert.	427	---	130	---	297	---	---	---	---
3190 fert. & mixes nec	10	9	0	0	1	---	---	---	---
Subtotal other chemicals and related products	3,427	28	627	82	2,599	---	25	9	57
3211 acyclic hydrocarbons	1	---	---	---	1	---	---	---	---
3212 benzene & toluene	6	6	---	---	---	---	---	---	---
3219 other hydrocarbons	1	---	---	0	1	---	---	---	---
3220 alcohols	85	20	---	60	6	---	---	---	---
3230 carboxylic acids	4	0	---	0	4	---	---	---	---

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY (CONSOLIDATED REPORT)
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports*	Through		Imports	Exports*	Through	
				Upbound	Downbnd			Upbound	Downbnd
3240 nitrogen func. comp.	5	—	0	0	5	—	0	—	—
3250 organo-inorganic comp.	2	—	0	0	2	—	—	—	—
3260 organic comp. nec	4	—	0	1	4	—	—	—	—
3272 sulphuric acid	0	—	—	0	0	—	—	—	—
3273 ammonia	0	—	—	0	0	—	—	—	—
3274 sodium hydroxide	127	—	91	—	2	—	18	—	17
3275 inorg. elem., oxides, & halogen salts	13	—	0	5	8	—	—	—	—
3276 metallic salts	3,069	3	533	1	2,485	—	8	—	40
3279 inorganic chem. nec	2	—	—	2	0	—	—	—	—
3281 radioactive material	0	—	—	0	0	—	—	—	—
3282 pigments & paints	3	0	0	0	3	—	—	—	—
3283 coloring mat. nec	1	—	—	0	1	—	—	—	—
3284 medicines	1	0	—	0	0	—	—	—	—
3285 perfumes & cleansers	8	—	0	3	5	—	—	—	—
3286 plastics	62	0	0	7	55	—	—	—	0
3291 pesticides	1	—	0	0	1	—	—	—	—
3292 starches, gluten, glue	7	—	0	0	6	—	—	—	—
3293 explosives	0	—	—	0	0	—	—	—	—
3297 chemical additives	3	—	0	0	3	—	—	—	—
3298 wood & resin chem.	15	—	2	0	4	—	—	9	—
3299 chem. products nec	6	—	0	1	5	—	—	—	—
Total crude materials, inedible except fuels	5,421	792	2,502	745	793	25	2	563	—
Subtotal forest products, wood and chips	2,552	12	2,015	103	366	25	2	30	—
4150 fuel wood	27	—	1	—	1	11	—	14	—
4161 wood chips	35	—	—	—	4	14	—	17	—
4170 wood in the rough	2,056	1	1,884	36	135	—	—	—	—
4189 lumber	434	11	129	66	226	—	2	—	—
4190 forest products nec	0	—	—	0	0	—	—	—	—
Subtotal pulp and waste paper	278	31	108	10	129	—	—	—	—
4225 pulp & waste paper	278	31	108	10	129	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	542	—	—	0	10	—	—	532	—
4310 building stone	0	—	—	0	0	—	—	—	—
4322 limestone	533	—	—	—	1	—	—	532	—
4323 gypsum	1	—	—	—	1	—	—	—	—
4327 phosphate rock	1	—	—	—	1	—	—	—	—
4331 sand & gravel	7	—	—	—	7	—	—	—	—
Subtotal iron ore and scrap	128	—	0	—	127	—	—	—	—
4420 iron & steel scrap	128	—	0	—	127	—	—	—	—
Subtotal marine shells	0	—	—	0	—	—	—	—	—
4515 marine shells	0	—	—	0	—	—	—	—	—
Subtotal non-ferrous ores and scrap	1,208	693	153	300	61	—	—	—	—
4630 copper ore	134	—	127	—	8	—	—	—	—
4650 aluminum ore	994	693	0	300	1	—	—	—	—
4680 non-ferrous scrap	40	—	0	0	39	—	—	—	—
4690 non-ferrous ores nec	40	—	26	—	14	—	—	—	—
Subtotal sulphur, clay and salt	302	13	208	0	80	—	—	—	—
4741 sulphur, (dry)	42	—	—	—	42	—	—	—	—
4782 clay & refrac. mat.	259	13	208	0	37	—	—	—	—
Subtotal slag	1	—	—	—	1	—	—	—	—
4860 slag	1	—	—	—	1	—	—	—	—
Subtotal other non-metal. min.	411	42	18	332	18	—	—	—	—
4900 non-metal. min. nec	411	42	18	332	18	—	—	—	—

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY (CONSOLIDATED REPORT)
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports*	Through		Imports	Exports*	Through	
				Upbound	Downbnd			Upbound	Downbnd
Total primary manufactured goods	2,154	220	410	924	601	—	0	0	0
Subtotal paper products	775	—	388	6	381	—	—	0	—
5110 newsprint	424	—	377	0	47	—	—	0	—
5120 paper & paperboard	339	—	10	5	323	—	—	—	—
5190 paper products nec	13	—	0	1	11	—	—	—	—
Subtotal lime, cement and glass	571	0	8	504	59	—	—	0	—
5220 cement & concrete	487	—	—	483	4	—	—	—	—
5240 glass & glass prod.	10	0	0	1	8	—	—	—	—
5290 misc. mineral prod.	74	0	8	19	47	—	—	0	—
Subtotal primary iron and steel products	582	189	0	379	13	—	—	—	0
5312 pig iron	119	—	—	118	1	—	—	—	—
5315 ferro alloys	59	30	—	20	9	—	—	—	—
5320 i&s primary forms	24	7	—	17	0	—	—	—	—
5330 i&s plates & sheets	167	111	0	54	2	—	—	—	—
5360 i&s bars & shapes	23	12	0	11	0	—	—	—	—
5370 i&s pipe & tube	57	29	—	28	1	—	—	—	0
5390 primary i&s nec	133	1	—	131	0	—	—	—	—
Subtotal primary non-ferrous metal products	61	0	2	29	30	—	—	—	—
5421 copper	3	—	0	0	2	—	—	—	—
5422 aluminum	20	0	1	0	18	—	—	—	—
5429 smelted prod. nec	4	—	—	2	2	—	—	—	—
5480 fab. metal products	35	0	0	27	8	—	—	—	—
Subtotal primary wood products	165	30	13	5	118	—	0	—	—
5540 primary wood prod.	165	30	13	5	118	—	0	—	—
Total food and farm products	19,883	0	11,325	45	8,506	6	0	0	0
Subtotal fish	4	—	0	0	3	0	—	0	—
6134 fish (not shellfish)	4	—	0	0	3	0	—	0	—
6136 shellfish	0	—	—	—	0	—	—	—	—
Subtotal grain	18,068	—	10,742	2	7,318	6	—	—	—
6241 wheat	12,111	—	5,586	—	6,519	6	—	—	—
6344 corn	4,830	—	4,693	—	137	—	—	—	—
6442 rice	2	—	—	2	1	—	—	—	—
6443 barley & rye	924	—	270	—	654	—	—	—	—
6445 oats	0	—	—	—	0	—	—	—	—
6447 sorghum grains	201	—	194	—	8	—	—	—	—
Subtotal oilseeds	266	—	236	—	30	—	—	—	—
6521 peanuts	0	—	0	—	—	—	—	—	—
6522 soybeans	262	—	236	—	27	—	—	—	—
6590 oilseeds nec	3	—	—	—	3	—	—	—	—
Subtotal vegetable products	288	0	3	7	278	—	—	—	0
6653 vegetable oils	8	—	0	1	7	—	—	—	—
6654 vegetables & prod.	281	0	3	6	272	—	—	—	0
Subtotal processed grain and animal feed	1,071	0	338	2	731	—	—	—	0
6746 wheat flour	1	—	—	0	1	—	—	—	—
6747 grain mill products	69	—	1	1	67	—	—	—	0
6781 hay & fodder	364	—	6	—	357	—	—	—	—
6782 animal feed, prep.	637	0	331	0	306	—	—	—	—
Subtotal other agricultural products	186	0	5	35	146	—	0	0	—
6811 meat, fresh, frozen	14	—	0	—	14	—	—	—	—
6817 meat, prepared	11	—	0	—	11	—	—	—	—
6822 dairy products	9	—	0	0	9	—	0	—	—

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY (CONSOLIDATED REPORT)
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports*	Through		Imports	Exports*	Through	
				Upbound	Downbnd			Upbound	Downbnd
6835 fish, prepared	4	0	—	0	3	—	—	—	—
6838 tallow, animal oils	0	—	—	—	0	—	—	—	—
6839 animals & prod. nec	33	—	1	0	33	—	—	—	—
6856 bananas & plantains	0	—	—	0	—	—	—	—	—
6857 fruit & nuts nec	10	—	2	1	8	—	—	—	—
6858 fruit juices	28	0	1	11	15	—	—	—	—
6861 sugar	0	—	—	—	0	—	—	—	—
6865 molasses	0	—	—	—	0	—	—	—	—
6871 coffee	1	—	—	0	0	—	—	—	—
6872 cocoa beans	0	—	—	0	0	—	—	—	—
6885 alcoholic beverages	25	0	0	19	6	—	—	0	—
6888 water & ice	1	—	—	1	0	—	—	—	—
6889 food products nec	21	0	0	2	19	—	—	—	—
6891 tobacco & products	1	—	—	—	1	—	—	—	—
6893 cotton	10	—	—	—	10	—	—	—	—
6899 farm products nec	19	—	—	1	18	—	—	—	—
Total all manufactured equipment, machinery and products	695	70	2	461	159	—	0	0	1
7110 machinery (not elec)	52	1	1	15	34	—	0	—	1
7120 electrical machinery	43	0	0	19	23	—	—	—	—
7210 vehicles & parts	482	69	0	367	45	—	—	—	—
7220 aircraft & parts	0	—	0	0	0	—	—	—	—
7230 ships & boats	1	0	0	0	0	—	0	—	—
7300 ordnance & access.	0	—	0	—	0	—	—	—	—
7400 manufac. wood prod.	14	0	0	2	11	—	—	—	—
7500 textile products	15	0	0	8	7	—	—	—	—
7600 rubber & plastic pr.	15	0	0	8	6	—	—	—	0
7900 manufac. prod. nec	74	0	0	42	32	—	—	0	0
Total unknown or not elsewhere classified	9	0	0	2	6	—	—	1	—
9900 unknown or nec	9	0	0	2	6	—	—	1	—
Ton-miles Foreign & Canadian (x1000)	2,975,233	108,051	1,223,931	268,382	1,292,243	2,147	8,583	63,931	7,965

Commodity	Total	Coastwise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Total, all commodities	4,771	978	335	3,164	294
Total petroleum and petroleum products	3,056	82	36	2,778	160
Subtotal crude petroleum	40	—	—	40	—
2100 crude petroleum	40	—	—	40	—
Subtotal petroleum products	3,016	82	36	2,737	160
2211 gasoline	1,757	56	36	1,594	70
2330 distillate fuel oil	510	26	—	456	28
2340 residual fuel oil	546	—	—	493	53
2350 lube oil & greases	58	—	—	58	—
2429 naphtha & solvents	9	—	—	—	9
2430 asphalt, tar & pitch	135	—	—	135	—
2990 petro. products nec	0	—	—	0	—
Total chemicals and related products	526	91	85	249	100
Subtotal fertilizers	161	—	74	87	—
3110 nitrogenous fert.	161	—	74	87	—
Subtotal other chemicals and related products	365	91	11	163	100
3212 benzene & toluene	89	89	—	—	—
3220 alcohols	99	2	5	59	33
3273 ammonia	103	—	—	103	—
3274 sodium hydroxide	68	—	2	—	65
3286 plastics	1	—	—	—	1
3298 wood & resin chem.	4	—	4	—	—

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY (CONSOLIDATED REPORT)
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Total	Coastwise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Total crude materials, inedible except fuels	1,125	804	189	115	17
Subtotal forest products, wood and chips	861	543	189	112	17
4161 wood chips	421	421	—	—	0
4170 wood in the rough	237	122	—	112	3
4189 lumber	203	—	189	—	14
Subtotal other non-metal. min.	264	261	—	2	—
4900 non-metal. min. nec	264	261	—	2	—
Total primary manufactured goods	58	0	19	22	16
Subtotal paper products	19	—	19	—	—
5190 paper products nec	19	—	19	—	—
Subtotal lime, cement and glass	25	—	—	21	4
5220 cement & concrete	25	—	—	21	4
5240 glass & glass prod.	0	—	—	—	0
Subtotal primary iron and steel products	8	—	—	—	8
5330 i&s plates & sheets	0	—	—	—	0
5360 i&s bars & shapes	8	—	—	—	8
Subtotal primary non-ferrous metal products	2	0	—	0	2
5480 fab. metal products	2	0	—	0	2
Subtotal primary wood products	3	—	0	—	3
5540 primary wood prod.	3	—	0	—	3
Total all manufactured equipment, machinery and products	7	0	5	1	1
7110 machinery (not elec)	1	0	0	1	0
7210 vehicles & parts	0	0	—	—	0
7230 ships & boats	0	—	—	—	0
7400 manufac. wood prod.	0	—	—	—	0
7800 empty containers	5	—	5	—	—
7900 manufac. prod. nec	0	—	—	—	0
Ton-miles (x1000) Coastwise	423,761	56,838	34,081	303,988	28,854

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	14,343	1,142	2,174	344	1,874	2,967	2,407	976	2,458
Total petroleum and petroleum products	2,637	676	175	36	7	1,719	10	9	4
Subtotal petroleum products	2,637	676	175	36	7	1,719	10	9	4
2211 gasoline	1,087	3	—	13	—	1,064	—	6	—
2330 distillate fuel oil	979	374	4	22	—	577	—	3	—
2340 residual fuel oil	551	286	168	1	7	76	10	—	4
2350 lube oil & greases	17	10	4	—	0	2	0	0	0
2540 petroleum coke	2	2	—	—	—	—	—	—	—
Total chemicals and related products	211	133	3	11	—	16	0	25	22
Subtotal fertilizers	81	22	3	9	—	—	—	25	22
3110 nitrogenous fert.	47	17	3	5	—	—	—	8	15
3190 fert. & mixes nec	34	5	—	4	—	—	—	17	7
Subtotal other chemicals and related products	130	112	—	2	—	16	0	—	—
3273 ammonia	101	83	—	2	—	16	—	—	—
3274 sodium hydroxide	29	29	—	—	—	—	—	—	—
3286 plastics	0	—	—	—	—	—	0	—	—
Total crude materials, inedible except fuels	4,171	155	631	16	258	1,143	3	704	1,261
Subtotal forest products, wood and chips	1,746	82	604	6	0	—	—	368	686
4150 fuel wood	14	9	5	—	—	—	—	—	—
4161 wood chips	1,475	73	493	—	—	—	—	361	548
4170 wood in the rough	257	—	105	6	—	—	—	7	138
4189 lumber	0	—	—	—	0	—	—	—	0
Subtotal pulp and waste paper	60	9	27	—	0	—	—	19	5
4225 pulp & waste paper	60	9	27	—	0	—	—	19	5

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY (CONSOLIDATED REPORT)
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Subtotal soil, sand, gravel, rock and stone	2,362	64	---	11	258	1,143	---	317	569
4331 sand & gravel	2,362	64	---	11	258	1,143	---	317	569
Subtotal sulphur, clay and salt	3	---	---	---	---	---	3	---	---
4782 clay & refrac. mat.	3	---	---	---	---	---	3	---	---
Subtotal other non-metal. min.	0	---	---	---	---	---	0	---	---
4900 non-metal. min. nec	0	---	---	---	---	---	0	---	---
Total primary manufactured goods	669	19	5	273	294	3	65	8	2
Subtotal paper products	625	1	3	273	293	0	45	8	2
5120 paper & paperboard	580	1	3	273	293	---	---	8	2
5190 paper products nec	45	---	---	---	---	0	45	---	---
Subtotal lime, cement and glass	0	---	---	---	---	0	0	---	---
5290 misc. mineral prod.	0	---	---	---	---	0	0	---	---
Subtotal primary iron and steel products	2	2	---	---	---	---	---	---	---
5370 i&s pipe & tube	2	2	---	---	---	---	---	---	---
Subtotal primary non-ferrous metal products	41	16	2	---	1	3	20	---	0
5422 aluminum	0	---	---	---	---	0	---	---	---
5480 fab. metal products	41	16	2	---	1	3	20	---	0
Total food and farm products	6,020	67	1,360	7	1,178	3	2,311	11	1,083
Subtotal fish	59	58	---	---	---	1	---	---	---
6134 fish (not shellfish)	55	55	---	---	---	0	---	---	---
6136 shellfish	4	3	---	---	---	1	---	---	---
Subtotal grain	5,873	9	1,360	7	1,126	2	2,274	11	1,083
6241 wheat	5,422	9	1,273	7	1,094	2	1,970	11	1,055
6344 corn	2	0	---	---	1	---	---	---	---
6443 barley & rye	449	---	87	---	30	---	304	---	28
Subtotal vegetable products	39	---	---	---	10	0	29	---	---
6654 vegetables & prod.	39	---	---	---	10	0	29	---	---
Subtotal processed grain and animal feed	39	---	---	---	32	0	7	---	---
6747 grain mill products	7	---	---	---	---	0	7	---	---
6781 hay & fodder	32	---	---	---	32	---	---	---	---
Subtotal other agricultural products	10	---	---	---	10	---	0	---	---
6839 animals & prod. nec	10	---	---	---	10	---	0	---	---
Total all manufactured equipment, machinery and products	406	92	---	---	137	82	19	2	75
7120 electrical machinery	0	---	---	---	---	---	0	---	---
7230 ships & boats	0	---	---	---	---	---	0	---	---
7600 rubber & plastic pr.	0	---	---	---	---	0	0	---	---
7800 empty containers	406	92	---	---	137	82	19	2	75
7900 manufac. prod. nec	0	---	---	---	---	---	0	---	---
Total waste and scrap nec	230	---	---	---	0	---	---	218	12
8900 waste and scrap nec	230	---	---	---	0	---	---	218	12

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY (CONSOLIDATED REPORT)
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Ton-miles Internal (x1000)	2,162,570	124,327	449,813	23,435	242,545	402,358	531,779	58,566	329,747
Tons All Traffic (x1000)		52,722							
Ton-miles All Traffic (x1000)		5,561,565							

*Includes 34 (x1000) tons of foreign inbound in-transits; Includes 96 (x1000) tons of foreign outbound in-transits;
 Includes 0 (x1000) tons of Canadian outbound in-transits.

COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WA AND PORTLAND, OR

Section Included: Columbia River from mouth to the mouth of Willamette River; Willamette River from mouth to Broadway Bridge at Portland, OR, a distance of 113 miles; Columbia River from mouth of Willamette River to Interstate Bridge, Vancouver, WA, a distance of 5 miles. Controlling Depth: Mouth of Columbia River to mouth of Willamette and up the Willamette to Broadway Bridge in Portland, 38 feet; in the reach of Columbia River from the mouth of Willamette River to the lower turning basin at Vancouver, WA, 38 feet. Project Depth: 40 feet in main channel from mouth of Columbia River to Broadway Bridge at Portland, OR; 40 feet in Columbia River from mouth of Willamette River to Railroad Bridge, Vancouver, WA; 35 feet from Railroad Bridge to Interstate Bridge, Vancouver, WA.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	53,694	1991	50,622	1994	50,703	1997	53,098
1989	54,756	1992	50,890	1995	58,446		
1990	51,479	1993	50,566	1996	52,559		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports*	Through		Imports	Exports*	Through	
				Upbound	Downbnd			Upbound	Downbnd
Total, all commodities	33,608	3,505	26,288	482	2,421	668	215	27	1
Total coal	21	21	0	---	0	---	---	---	---
1100 coal lignite	21	21	0	---	0	---	---	---	---
1200 coal coke	0	---	0	---	---	---	---	---	---
Total petroleum and petroleum products	1,284	518	535	4	5	91	131	---	---
Subtotal crude petroleum	343	343	---	---	---	---	---	---	---
2100 crude petroleum	343	343	---	---	---	---	---	---	---
Subtotal petroleum products	941	174	535	4	5	91	131	---	---
2211 gasoline	138	64	---	---	---	67	6	---	---
2221 kerosene	6	---	---	---	---	---	6	---	---
2330 distillate fuel oil	28	9	---	---	0	19	---	---	---
2340 residual fuel oil	17	---	---	---	0	5	12	---	---
2350 lube oil & greases	4	---	1	0	3	---	---	---	---
2410 petro. jelly & waxes	1	---	0	0	1	---	---	---	---
2429 naphtha & solvents	0	---	---	---	0	---	---	---	---
2430 asphalt, tar & pitch	105	101	0	3	0	---	---	---	---
2540 petroleum coke	643	---	535	---	0	---	107	---	---
2640 liquid natural gas	0	---	---	---	0	---	---	---	---
Total chemicals and related products	4,141	167	3,762	19	101	4	82	6	0
Subtotal fertilizers	714	75	636	0	1	1	---	---	---
3110 nitrogenous fert.	277	67	209	---	0	1	---	---	---
3130 potassic fert.	427	---	427	---	0	---	---	---	---
3190 fert. & mixes nec	10	9	0	0	1	---	---	---	---
Subtotal other chemicals and related products	3,427	92	3,126	19	100	3	82	6	0
3211 acyclic hydrocarbons	1	---	1	---	0	---	---	---	---
3212 benzene & toluene	6	6	---	---	---	---	---	---	---
3219 other hydrocarbons	1	---	0	0	1	---	---	---	---

COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WA AND PORTLAND, OR
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports*	Through		Imports	Exports*	Through	
				Upbound	Downbnd			Upbound	Downbnd
3220 alcohols	85	79	0	1	5	—	—	—	—
3230 carboxylic acids	4	0	0	0	4	—	—	—	—
3240 nitrogen func. comp.	5	0	1	0	4	—	0	—	—
3250 organo-inorganic comp.	2	—	1	0	1	—	—	—	—
3260 organic comp. nec	4	—	0	1	3	—	—	—	—
3272 sulphuric acid	0	0	0	0	—	—	—	—	—
3273 ammonia	0	—	0	0	—	—	—	—	—
3274 sodium hydroxide	127	—	93	—	—	—	35	—	—
3275 inorg. elem., oxides, & halogen salts	13	3	3	2	5	—	—	—	—
3276 metallic salts	3,069	3	3,015	1	3	—	47	—	—
3279 inorganic chem. nec	2	0	0	2	0	—	—	—	—
3281 radioactive material	0	0	—	—	0	—	—	—	—
3282 pigments & paints	3	0	0	0	2	—	—	—	—
3283 coloring mat. nec	1	—	0	0	1	—	—	—	—
3284 medicines	1	0	0	0	0	—	—	—	—
3285 perfumes & cleansers	8	0	1	3	4	—	—	—	—
3286 plastics	62	1	6	7	49	—	—	—	0
3291 pesticides	1	0	0	0	0	—	—	—	—
3292 starches, gluten, glue	7	0	1	0	6	—	—	—	—
3293 explosives	0	0	—	0	0	—	—	—	—
3297 chemical additives	3	—	0	0	3	—	—	—	—
3298 wood & resin chem.	15	—	2	0	4	3	—	6	—
3299 chem. products nec	6	0	0	1	5	—	—	—	—
Total crude materials, inedible except fuels	5,421	1,523	2,818	14	477	566	2	21	—
Subtotal forest products, wood and chips	2,552	101	2,144	13	237	34	2	21	—
4150 fuel wood	27	—	1	—	1	16	—	9	—
4161 wood chips	35	—	—	—	4	18	—	12	—
4170 wood in the rough	2,056	37	1,979	—	40	—	—	—	—
4189 lumber	434	64	163	13	193	—	2	—	—
4190 forest products nec	0	—	0	0	0	—	—	—	—
Subtotal pulp and waste paper	278	41	117	—	120	—	—	—	—
4225 pulp & waste paper	278	41	117	—	120	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	542	—	0	0	10	532	—	—	—
4310 building stone	0	—	—	0	0	—	—	—	—
4322 limestone	533	—	—	—	1	532	—	—	—
4323 gypsum	1	—	0	—	1	—	—	—	—
4327 phosphate rock	1	—	—	—	1	—	—	—	—
4331 sand & gravel	7	—	0	—	7	—	—	—	—
Subtotal iron ore and scrap	128	—	90	—	38	—	—	—	—
4420 iron & steel scrap	128	—	90	—	38	—	—	—	—
Subtotal marine shells	0	—	—	0	—	—	—	—	—
4515 marine shells	0	—	—	0	—	—	—	—	—
Subtotal non-ferrous ores and scrap	1,208	993	167	0	47	—	—	—	—
4630 copper ore	134	—	127	—	8	—	—	—	—
4650 aluminum ore	994	993	0	0	1	—	—	—	—
4680 non-ferrous scrap	40	0	1	0	39	—	—	—	—
4690 non-ferrous ores nec	40	—	40	—	0	—	—	—	—
Subtotal sulphur, clay and salt	302	13	282	—	6	—	—	—	—
4741 sulphur, (dry)	42	—	42	—	0	—	—	—	—
4782 clay & refrac. mat.	259	13	239	—	6	—	—	—	—
Subtotal slag	1	—	—	—	1	—	—	—	—
4860 slag	1	—	—	—	1	—	—	—	—

COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WA AND PORTLAND, OR
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports*	Through		Imports	Exports*	Through	
				Upbound	Downbnd			Upbound	Downbnd
Subtotal other non-metal. min.	411	375	18	0	18	---	---	---	---
4900 non-metal. min. nec	411	375	18	0	18	---	---	---	---
Total primary manufactured goods	2,154	1,008	450	135	561	0	0	---	0
Subtotal paper products	775	1	414	5	355	0	---	---	---
5110 newsprint	424	---	379	0	44	0	---	---	---
5120 paper & paperboard	339	1	33	4	301	---	---	---	---
5190 paper products nec	13	0	1	1	10	---	---	---	---
Subtotal lime, cement and glass	571	488	13	16	54	0	---	---	---
5220 cement & concrete	487	483	---	---	4	---	---	---	---
5240 glass & glass prod.	10	0	0	1	8	---	---	---	---
5290 misc. mineral prod.	74	5	12	14	43	0	---	---	---
Subtotal primary iron and steel products	582	485	1	84	12	---	---	---	0
5312 pig iron	119	60	0	58	1	---	---	---	---
5315 ferro alloys	59	50	0	0	9	---	---	---	---
5320 i&s primary forms	24	23	0	---	0	---	---	---	---
5330 i&s plates & sheets	167	157	0	8	2	---	---	---	---
5360 i&s bars & shapes	23	22	0	1	0	---	---	---	---
5370 i&s pipe & tube	57	45	0	12	0	---	---	---	0
5390 primary i&s nec	133	127	0	5	0	---	---	---	---
Subtotal primary non-ferrous metal products	61	1	5	28	26	---	---	---	---
5421 copper	3	0	1	0	1	---	---	---	---
5422 aluminum	20	0	3	0	17	---	---	---	---
5429 smelted prod. nec	4	0	0	2	2	---	---	---	---
5480 fab. metal products	35	1	1	26	7	---	---	---	---
Subtotal primary wood products	165	32	17	2	114	---	0	---	---
5540 primary wood prod.	165	32	17	2	114	---	0	---	---
Total food and farm products	19,883	19	18,695	27	1,136	6	0	0	0
Subtotal fish	4	0	0	---	3	0	---	0	---
6134 fish (not shellfish)	4	0	0	---	3	0	---	0	---
6136 shellfish	0	---	0	---	0	---	---	---	---
Subtotal grain	18,068	---	17,782	2	278	6	---	---	---
6241 wheat	12,111	---	11,843	---	262	6	---	---	---
6344 corn	4,830	---	4,815	---	15	---	---	---	---
6442 rice	2	---	---	2	1	---	---	---	---
6443 barley & rye	924	---	923	---	1	---	---	---	---
6445 oats	0	---	---	---	0	---	---	---	---
6447 sorghum grains	201	---	201	---	---	---	---	---	---
Subtotal oilseeds	266	---	240	---	25	---	---	---	---
6521 peanuts	0	---	0	---	---	---	---	---	---
6522 soybeans	262	---	240	---	22	---	---	---	---
6590 oilseeds nec	3	---	0	---	3	---	---	---	---
Subtotal vegetable products	288	1	36	5	246	---	---	---	0
6653 vegetable oils	8	0	6	1	1	---	---	---	---
6654 vegetables & prod.	281	1	30	5	245	---	---	---	0
Subtotal processed grain and animal feed	1,071	1	623	1	447	---	---	---	0
6746 wheat flour	1	---	1	0	0	---	---	---	---
6747 grain mill products	69	0	10	1	57	---	---	---	0
6781 hay & fodder	364	---	29	---	335	---	---	---	---
6782 animal feed, prep.	637	0	583	0	55	---	---	---	---

COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WA AND PORTLAND, OR
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports*	Through		Imports	Exports*	Through	
				Upbound	Downbnd			Upbound	Downbnd
Subtotal other agricultural products	186	17	15	19	136	0	0	---	---
6811 meat, fresh, frozen	14	---	1	---	13	---	---	---	---
6817 meat, prepared	11	---	0	---	11	---	---	---	---
6822 dairy products	9	0	0	---	8	---	0	---	---
6835 fish, prepared	4	0	0	0	3	---	---	---	---
6838 tallow, animal oils	0	---	---	---	0	---	---	---	---
6839 animals & prod. nec	33	0	2	0	31	---	---	---	---
6856 bananas & plantains	0	---	---	0	---	---	---	---	---
6857 fruit & nuts nec	10	0	3	0	7	---	---	---	---
6858 fruit juices	28	6	3	5	13	---	---	---	---
6861 sugar	0	---	---	---	0	---	---	---	---
6865 molasses	0	---	---	---	0	---	---	---	---
6871 coffee	1	0	---	0	0	---	---	---	---
6872 cocoa beans	0	0	0	0	---	---	---	---	---
6885 alcoholic beverages	25	9	1	9	5	0	---	---	---
6888 water & ice	1	0	---	1	0	---	---	---	---
6889 food products nec	21	0	2	1	17	---	---	---	---
6891 tobacco & products	1	---	0	---	1	---	---	---	---
6893 cotton	10	---	0	---	9	---	---	---	---
6899 farm products nec	19	0	1	1	17	---	---	---	---
Total all manufactured equipment, machinery and products	695	249	27	282	135	---	0	0	1
7110 machinery (not elec)	52	4	3	12	32	---	0	---	1
7120 electrical machinery	43	2	5	18	18	---	---	---	---
7210 vehicles & parts	482	239	7	196	39	---	---	---	---
7220 aircraft & parts	0	0	0	0	0	---	---	---	---
7230 ships & boats	1	0	0	0	0	---	0	---	---
7300 ordnance & access.	0	---	0	---	0	---	---	---	---
7400 manufac. wood prod.	14	0	1	2	10	---	---	---	---
7500 textile products	15	1	2	7	5	---	---	---	---
7600 rubber & plastic pr.	15	1	2	7	5	---	---	---	0
7900 manufac. prod. nec	74	3	6	39	26	---	---	0	0
Total unknown or not elsewhere classified	9	0	1	2	6	1	---	---	---
9900 unknown or nec	9	0	1	2	6	1	---	---	---
Ton-miles Foreign & Canadian (x1000)	3,124,913	351,824	2,386,572	49,210	246,933	70,163	17,340	2,779	92

Commodity	Total	Coastwise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Total, all commodities	4,771	3,981	596	161	33
Total petroleum and petroleum products	3,056	2,860	196	---	---
Subtotal crude petroleum	40	40	---	---	---
2100 crude petroleum	40	40	---	---	---
Subtotal petroleum products	3,016	2,820	196	---	---
2211 gasoline	1,757	1,651	106	---	---
2330 distillate fuel oil	510	482	28	---	---
2340 residual fuel oil	546	493	53	---	---
2350 lube oil & greases	58	58	---	---	---
2429 naphtha & solvents	9	---	9	---	---
2430 asphalt, tar & pitch	135	135	---	---	---
2990 petro. products nec	0	0	---	---	---
Total chemicals and related products	526	340	153	---	32
Subtotal fertilizers	161	87	42	---	32
3110 nitrogenous fert.	161	87	42	---	32

COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WA AND PORTLAND, OR
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Coastwise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Subtotal other chemicals and related products	365	254	111	—	—
3212 benzene & toluene	89	89	—	—	—
3220 alcohols	99	61	38	—	—
3273 ammonia	103	103	—	—	—
3274 sodium hydroxide	68	—	68	—	—
3286 plastics	1	—	1	—	—
3298 wood & resin chem.	4	—	4	—	—
Total crude materials, inedible except fuels	1,125	759	206	160	—
Subtotal forest products, wood and chips	861	497	206	157	—
4161 wood chips	421	376	0	45	—
4170 wood in the rough	237	122	3	112	—
4189 lumber	203	—	203	—	—
Subtotal other non-metal. min.	264	261	—	2	—
4900 non-metal. min. nec	264	261	—	2	—
Total primary manufactured goods	58	21	36	1	—
Subtotal paper products	19	—	19	—	—
5190 paper products nec	19	—	19	—	—
Subtotal lime, cement and glass	25	21	4	—	—
5220 cement & concrete	25	21	4	—	—
5240 glass & glass prod.	0	—	0	—	—
Subtotal primary iron and steel products	8	—	8	—	—
5330 i&s plates & sheets	0	—	0	—	—
5360 i&s bars & shapes	8	—	8	—	—
Subtotal primary non-ferrous metal products	2	—	2	1	—
5480 fab. metal products	2	—	2	1	—
Subtotal primary wood products	3	—	3	—	—
5540 primary wood prod.	3	—	3	—	—
Total all manufactured equipment, machinery and products	7	0	6	1	0
7110 machinery (not elec)	1	0	0	1	0
7210 vehicles & parts	0	0	0	—	—
7230 ships & boats	0	—	0	—	—
7400 manufac. wood prod.	0	—	0	—	—
7800 empty containers	5	—	5	—	—
7900 manufac. prod. nec	0	—	0	—	—
Ton-miles (x1000)	442,140	374,599	54,952	9,228	3,361
Coastwise					

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	14,718	4,876	4,184	325	2,390	398	309	1,485	751
Total petroleum and petroleum products	2,932	3	—	33	2,103	—	—	617	175
Subtotal petroleum products	2,932	3	—	33	2,103	—	—	617	175
2211 gasoline	1,102	—	—	13	1,066	—	—	23	—
2330 distillate fuel oil	1,006	—	—	20	948	—	—	39	—
2340 residual fuel oil	798	3	—	—	87	—	—	535	171
2350 lube oil & greases	23	—	—	—	3	—	—	17	4
2540 petroleum coke	2	—	—	—	—	—	—	2	—
Total chemicals and related products	181	—	5	13	144	—	0	20	—
Subtotal fertilizers	51	—	5	13	16	—	—	18	—
3110 nitrogenous fert.	27	—	3	8	11	—	—	6	—
3190 fert. & mixes nec	24	—	2	5	5	—	—	12	—
Subtotal other chemicals and related products	130	—	—	—	128	—	0	2	—
3273 ammonia	99	—	—	—	99	—	—	—	—
3274 sodium hydroxide	31	—	—	—	29	—	—	2	—
3286 plastics	0	—	—	—	—	—	0	—	—
Total crude materials, inedible except fuels	4,426	1,121	1,672	174	137	204	3	545	570
Subtotal forest products, wood and chips	1,226	30	847	150	—	52	—	126	21
4150 fuel wood	14	—	5	—	—	9	—	—	—

COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WA AND PORTLAND, OR
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Internal									
		Inbound		Outbound		Through		Intra		Downbnd	Downbnd
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd		
4161 wood chips	1,144	30	787	144	—	43	—	126	15	6	
4170 wood in the rough	68	—	56	6	—	—	—	0	—	—	
4189 lumber	0	0	0	—	—	—	—	—	—	—	
Subtotal pulp and waste paper	60	—	8	14	9	—	0	5	24	—	
4225 pulp & waste paper	60	—	8	14	9	—	0	5	24	—	
Subtotal soil, sand, gravel, rock and stone	3,136	1,091	817	10	128	151	—	414	525	—	
4331 sand & gravel	3,136	1,091	817	10	128	151	—	414	525	—	
Subtotal sulphur, clay and salt	3	—	—	—	—	—	3	—	—	—	
4782 clay & refrac. mat.	3	—	—	—	—	—	3	—	—	—	
Subtotal other non-metal. min.	0	—	—	—	—	—	0	—	—	—	
4900 non-metal. min. nec	0	—	—	—	—	—	0	—	—	—	
Total primary manufactured goods	673	294	4	8	3	19	65	277	3	—	
Subtotal paper products	629	293	2	8	1	0	45	277	3	—	
5120 paper & paperboard	584	293	2	8	1	—	—	277	3	—	
5190 paper products nec	45	—	—	—	—	0	45	—	—	—	
Subtotal lime, cement and glass	0	—	—	—	—	0	0	—	—	—	
5290 misc. mineral prod.	0	—	—	—	—	0	0	—	—	—	
Subtotal primary iron and steel products	2	—	—	—	2	—	—	—	—	—	
5370 i&s pipe & tube	2	—	—	—	2	—	—	—	—	—	
Subtotal primary non-ferrous metal products	41	0	2	—	0	18	20	0	—	—	
5422 aluminum	0	—	—	—	—	0	—	—	—	—	
5480 fab. metal products	41	0	2	—	0	18	20	0	—	—	
Total food and farm products	6,017	3,453	2,441	—	2	1	91	26	2	—	
Subtotal fish	59	57	—	—	—	1	—	—	—	—	
6134 fish (not shellfish)	55	54	—	—	—	1	—	—	—	—	
6136 shellfish	4	3	—	—	—	1	—	—	—	—	
Subtotal grain	5,871	3,395	2,441	—	2	0	3	26	2	—	
6241 wheat	5,418	3,061	2,326	—	2	0	1	25	2	—	
6344 corn	2	—	—	—	—	0	1	—	—	—	
6443 barley & rye	451	334	115	—	—	—	—	1	—	—	
Subtotal vegetable products	39	—	—	—	—	0	39	—	—	—	
6654 vegetables & prod.	39	—	—	—	—	0	39	—	—	—	
Subtotal processed grain and animal feed	39	—	—	—	—	0	39	—	—	—	
6747 grain mill products	7	—	—	—	—	0	7	—	—	—	
6781 hay & fodder	32	—	—	—	—	—	32	—	—	—	
Subtotal other agricultural products	10	—	—	—	—	—	10	—	—	—	
6839 animals & prod. nec	10	—	—	—	—	—	10	—	—	—	
Total all manufactured equipment, machinery and products	381	5	51	0	0	174	150	—	—	—	
7120 electrical machinery	0	—	—	—	—	—	0	—	—	—	
7230 ships & boats	0	—	—	—	—	—	0	—	—	—	
7600 rubber & plastic pr.	0	—	—	—	—	0	0	—	—	—	
7800 empty containers	381	5	51	0	0	174	150	—	—	—	
7900 manufac. prod. nec	0	—	—	—	—	—	0	—	—	—	

COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WA AND PORTLAND, OR
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total waste and scrap nec	109	---	11	97	---	---	0	0	---
8900 waste and scrap nec	109	---	11	97	---	---	0	0	---
Ton-miles Internal (x1000)	229,516	69,567	70,378	14,386	28,713	3,547	0	29,726	13,200
Tons All Traffic (x1000)		53,098							
Ton-miles All Traffic (x1000)		3,796,569							

*Includes 36 (x1000) tons of foreign inbound in-transits; Includes 343 (x1000) tons of foreign outbound in-transits;
Includes 0 (x1000) tons of Canadian outbound in-transits.

PORT OF ASTORIA, OR

Section Included: (Statistics for that section of the port with frontage on the Columbia River are also included in statistics for Columbia and Lower Willamette Rivers below Vancouver, WA, and Portland, OR, and statistics for portion of port with frontage on Youngs Bay are also included in statistics for Youngs Bay and Youngs River, OR) Controlling Depth: 38 feet in Columbia River and 6 feet in Youngs Bay. Project Depth: 40 feet in Columbia River and 10 feet in Youngs Bay.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	1,097	1991	660	1994	1,354	1997	298
1989	1,124	1992	721	1995	985		
1990	966	1993	412	1996	324		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			
		Imports*	Exports	Imports	Total	Coastwise Receipts	Internal	
							Receipts	Shipments
Total, all commodities	298	52	62	24	160	52	102	6
Total petroleum and petroleum products	43	4	0	---	39	---	39	0
Subtotal petroleum products	43	4	0	---	39	---	39	0
2340 residual fuel oil	38	---	---	---	38	---	38	0
2350 lube oil & greases	1	---	0	---	1	---	1	---
2430 asphalt, tar & pitch	4	4	---	---	---	---	---	---
Total chemicals and related products	25	---	25	---	---	---	---	---
Subtotal other chemicals and related products	25	---	25	---	---	---	---	---
3240 nitrogen func. comp.	0	---	0	---	---	---	---	---
3250 organo-inorganic comp.	0	---	0	---	---	---	---	---
3276 metallic salts	25	---	25	---	---	---	---	---
3282 pigments & paints	0	---	0	---	---	---	---	---
3285 perfumes & cleansers	0	---	0	---	---	---	---	---
3286 plastics	0	---	0	---	---	---	---	---
3292 starches, gluten, glue	0	---	0	---	---	---	---	---
3299 chem. products nec	0	---	0	---	---	---	---	---
Total crude materials, inedible except fuels	135	47	0	24	64	52	6	6
Subtotal forest products, wood and chips	78	2	0	24	52	52	---	---
4150 fuel wood	10	---	---	10	---	---	---	---
4161 wood chips	14	---	---	14	---	---	---	---
4170 wood in the rough	53	1	---	---	52	52	---	---
4189 lumber	1	1	0	---	---	---	---	---
Subtotal pulp and waste paper	11	---	---	---	11	---	6	6
4225 pulp & waste paper	11	---	---	---	11	---	6	6
Subtotal non-ferrous ores and scrap	45	45	0	---	---	---	---	---
4650 aluminum ore	45	45	0	---	---	---	---	---
Subtotal sulphur, clay and salt	0	---	0	---	---	---	---	---
4782 clay & refrac. mat.	0	---	0	---	---	---	---	---
Total primary manufactured goods	2	1	1	---	0	---	0	---
Subtotal paper products	0	---	0	---	0	---	0	---
5120 paper & paperboard	0	---	---	---	0	---	0	---
5190 paper products nec	0	---	0	---	---	---	---	---
Subtotal lime, cement and glass	0	0	0	---	---	---	---	---
5290 misc. mineral prod.	0	0	0	---	---	---	---	---

PORT OF ASTORIA, OR
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			
		Imports*	Exports	Imports	Coastwise		Internal	
					Total	Receipts	Shipments	Receipts
Subtotal primary iron and steel products	0	0	---	---	---	---	---	---
5330 i&s plates & sheets	0	0	---	---	---	---	---	---
5360 i&s bars & shapes	0	0	---	---	---	---	---	---
Subtotal primary non-ferrous metal products	1	0	1	---	---	---	---	---
5422 aluminum	1	---	1	---	---	---	---	---
5480 fab. metal products	0	0	0	---	---	---	---	---
Subtotal primary wood products	0	---	0	---	---	---	---	---
5540 primary wood prod.	0	---	0	---	---	---	---	---
Total food and farm products	93	0	35	0	57	---	57	---
Subtotal fish	57	---	---	0	57	---	57	---
6134 fish (not shellfish)	54	---	---	0	54	---	54	---
6136 shellfish	3	---	---	---	3	---	3	---
Subtotal grain	23	---	23	---	---	---	---	---
6241 wheat	23	---	23	---	---	---	---	---
Subtotal vegetable products	0	---	0	---	---	---	---	---
6654 vegetables & prod.	0	---	0	---	---	---	---	---
Subtotal processed grain and animal feed	12	0	12	---	---	---	---	---
6782 animal feed, prep.	12	0	12	---	---	---	---	---
Subtotal other agricultural products	0	---	0	---	---	---	---	---
6822 dairy products	0	---	0	---	---	---	---	---
6839 animals & prod. nec	0	---	0	---	---	---	---	---
6889 food products nec	0	---	0	---	---	---	---	---
Total all manufactured equipment, machinery and products	1	0	1	---	---	---	---	---
7110 machinery (not elec)	0	---	0	---	---	---	---	---
7120 electrical machinery	0	---	0	---	---	---	---	---
7210 vehicles & parts	0	---	0	---	---	---	---	---
7500 textile products	0	0	0	---	---	---	---	---
7600 rubber & plastic pr.	0	0	0	---	---	---	---	---
7900 manufac. prod. nec	0	---	0	---	---	---	---	---

*Includes 0 (x1000) tons of foreign inbound in-transits.

PORTS OTHER THAN PORTLAND, ASTORIA, ST. HELENS, LONGVIEW, VANCOUVER AND KALAMA

Section Included: (Included in statistics for Columbia and Lower Willamette Rivers below Vancouver, WA, and Portland, OR) Ports included: Bradwood, Wauna, Beaver Point, Rainier and Prescott, OR and Knappton, WA. Controlling Depth: 38 feet. Project Depth: 40 feet at low water in main channel.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	810	1991	883	1994	901	1997	955
1989	872	1992	987	1995	1,003		
1990	875	1993	945	1996	882		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Domestic			
		Coastwise		Internal	
		Receipts	Shipments	Receipts	Shipments
Total, all commodities	955	353	2	287	312
Total chemicals and related products	5	---	2	4	---
Subtotal fertilizers	5	---	2	4	---
3110 nitrogenous fert.	3	---	2	2	---
3190 fert. & mixes nec	2	---	---	2	---
Total crude materials, inedible except fuels	663	353	---	279	31
Subtotal forest products, wood and chips	622	353	---	254	15
4150 fuel wood	5	---	---	5	---
4161 wood chips	598	347	---	241	9
4170 wood in the rough	19	6	---	8	5
Subtotal pulp and waste paper	41	---	---	25	17
4225 pulp & waste paper	41	---	---	25	17
Total primary manufactured goods	286	---	---	5	281
Subtotal paper products	286	---	---	5	281
5120 paper & paperboard	286	---	---	5	281
Total all manufactured equipment, machinery and products	0	0	---	---	---
7210 vehicles & parts	0	0	---	---	---

PORT OF LONGVIEW, WA

Section Included: (Included in statistics for Columbia and Lower Willamette Rivers below Vancouver, WA, and Portland, OR) Controlling Depth: 39 feet in channel and 39 feet in turning basin. Project Depth: 40 foot channel in Columbia River and 6,000 foot turning basin at low water.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	9,003	1991	7,806	1994	6,442	1997	5,540
1989	8,023	1992	6,309	1995	6,167		
1990	8,681	1993	5,476	1996	5,163		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports*	Imports	Exports
Total, all commodities	4,433	402	3,891	7	133
Total petroleum and petroleum products	666	32	526	—	107
Subtotal petroleum products	666	32	526	—	107
2350 lube oil & greases	0	—	0	—	—
2430 asphalt, tar & pitch	32	32	—	—	—
2540 petroleum coke	633	—	526	—	107
Total chemicals and related products	718	9	682	1	25
Subtotal fertilizers	239	9	229	1	—
3110 nitrogenous fert.	109	9	99	1	—
3130 potassic fert.	130	—	130	—	—
3190 fert. & mixes nec	0	—	0	—	—
Subtotal other chemicals and related products	479	—	454	—	25
3240 nitrogen func. comp.	0	—	—	—	0
3274 sodium hydroxide	97	—	80	—	18
3275 inorg. elem., oxides, & halogen salts	0	—	0	—	—
3276 metallic salts	381	—	374	—	8
3285 perfumes & cleansers	0	—	0	—	—
3286 plastics	0	—	0	—	—
3291 pesticides	0	—	0	—	—
Total crude materials, inedible except fuels	2,351	330	2,021	—	0
Subtotal forest products, wood and chips	1,886	—	1,886	—	0
4150 fuel wood	1	—	1	—	—
4170 wood in the rough	1,842	—	1,842	—	—
4189 lumber	43	—	43	—	0
Subtotal pulp and waste paper	33	6	27	—	—
4225 pulp & waste paper	33	6	27	—	—
Subtotal iron ore and scrap	0	—	0	—	—
4420 iron & steel scrap	0	—	0	—	—
Subtotal non-ferrous ores and scrap	269	269	0	—	—
4650 aluminum ore	269	269	—	—	—
4680 non-ferrous scrap	0	—	0	—	—
Subtotal sulphur, clay and salt	104	13	91	—	—
4782 clay & refrac. mat.	104	13	91	—	—
Subtotal other non-metal. min.	60	42	17	—	—
4900 non-metal. min. nec	60	42	17	—	—
Total primary manufactured goods	420	30	389	—	—
Subtotal paper products	380	—	380	—	—
5110 newsprint	377	—	377	—	—
5120 paper & paperboard	3	—	3	—	—
5190 paper products nec	0	—	0	—	—
Subtotal lime, cement and glass	7	0	7	—	—
5240 glass & glass prod.	0	0	—	—	—
5290 misc. mineral prod.	7	—	7	—	—
Subtotal primary iron and steel products	30	30	—	—	—
5315 ferro alloys	30	30	—	—	—
Subtotal primary non-ferrous metal products	0	—	0	—	—
5421 copper	0	—	0	—	—
5422 aluminum	0	—	0	—	—
5480 fab. metal products	0	—	0	—	—
Subtotal primary wood products	2	—	2	—	—
5540 primary wood prod.	2	—	2	—	—
Total food and farm products	278	—	272	6	—
Subtotal fish	0	—	0	—	—
6134 fish (not shellfish)	0	—	0	—	—
Subtotal grain	135	—	129	6	—
6241 wheat	46	—	40	6	—
6344 corn	61	—	61	—	—
6443 barley & rye	23	—	23	—	—
6447 sorghum grains	5	—	5	—	—
Subtotal vegetable products	1	—	1	—	—
6654 vegetables & prod.	1	—	1	—	—
Subtotal processed grain and animal feed	142	—	142	—	—
6747 grain mill products	0	—	0	—	—
6781 hay & fodder	3	—	3	—	—
6782 animal feed, prep.	139	—	139	—	—
Subtotal other agricultural products	1	—	1	—	—
6817 meat, prepared	0	—	0	—	—
6839 animals & prod. nec	0	—	0	—	—
6858 fruit juices	0	—	0	—	—
6885 alcoholic beverages	0	—	0	—	—
6889 food products nec	0	—	0	—	—
Total all manufactured equipment, machinery and products	1	0	1	—	0
7110 machinery (not elec)	0	0	0	—	0
7120 electrical machinery	0	0	—	—	—

PORT OF LONGVIEW, WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports*	Imports	Exports
7210 vehicles & parts	0	0	0	---	---
7230 ships & boats	0	0	---	---	---
7400 manufac. wood prod.	0	---	0	---	---
7500 textile products	0	---	0	---	---
7600 rubber & plastic pr.	0	0	0	---	---
7900 manufac. prod. nec	0	---	0	---	---
Total unknown or not elsewhere classified	0	0	0	---	---
9900 unknown or nec	0	0	0	---	---

Commodity	Total	Domestic			
		Coastwise		Internal	
		Receipts	Shipments	Receipts	Shipments
Total, all commodities	1,106	290	68	746	3
Total petroleum and petroleum products	112	---	---	111	1
Subtotal petroleum products	112	---	---	111	1
2340 residual fuel oil	109	---	---	109	1
2350 lube oil & greases	3	---	---	3	0
Total chemicals and related products	4	---	2	---	2
Subtotal fertilizers	2	---	---	---	2
3110 nitrogenous fert.	2	---	---	---	2
Subtotal other chemicals and related products	2	---	2	---	---
3274 sodium hydroxide	2	---	2	---	---
Total crude materials, inedible except fuels	971	290	47	635	---
Subtotal forest products, wood and chips	710	28	47	635	---
4161 wood chips	653	28	---	624	---
4170 wood in the rough	10	---	---	10	---
4189 lumber	47	---	47	0	---
Subtotal other non-metal. min.	261	261	---	---	---
4900 non-metal. min. nec	261	261	---	---	---
Total primary manufactured goods	19	---	19	0	---
Subtotal paper products	19	---	19	---	---
5190 paper products nec	19	---	19	---	---
Subtotal primary non-ferrous metal products	0	---	---	0	---
5480 fab. metal products	0	---	---	0	---
Subtotal primary wood products	0	---	0	---	---
5540 primary wood prod.	0	---	0	---	---
Total food and farm products	0	---	---	0	---
Subtotal fish	0	---	---	0	---
6134 fish (not shellfish)	0	---	---	0	---
Total all manufactured equipment, machinery and products	0	---	---	---	0
7800 empty containers	0	---	---	---	0

*Includes 80 (x1000) tons of foreign outbound in-transits.

PORT OF KALAMA, WA

Section Included: (Included in statistics for Columbia and Lower Willamette Rivers below Vancouver, WA, and Portland, OR) Controlling Depth: 37 feet. Project Depth: 40 feet at low water.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	7,521	1991	5,881	1994	5,351	1997	8,301
1989	7,013	1992	6,676	1995	11,347		
1990	6,255	1993	6,501	1996	8,223		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Domestic				
		Imports*	Exports*	Total	Coastwise		Internal	
					Receipts	Shipments	Receipts	Shipments
Total, all commodities	8,301	58	7,218	1,025	89	27	893	15
Total petroleum and petroleum products	11	---	---	11	---	---	11	0
Subtotal petroleum products	11	---	---	11	---	---	11	0
2340 residual fuel oil	11	---	---	11	---	---	11	0
2350 lube oil & greases	0	---	---	0	---	---	0	---

PORT OF KALAMA, WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Domestic				
		Imports*	Exports*	Total	Coastwise		Internal	
					Receipts	Shipments	Receipts	Shipments
Total chemicals and related products	126	6	31	89	89	---	---	---
Subtotal other chemicals and related products	126	6	31	89	89	---	---	---
3212 benzene & toluene	95	6	---	89	89	---	---	---
3260 organic comp. nec	0	---	0	---	---	---	---	---
3276 metallic salts	31	---	31	---	---	---	---	---
3285 perfumes & cleansers	0	---	0	---	---	---	---	---
3286 plastics	0	---	0	---	---	---	---	---
3292 starches, gluten, glue	0	---	0	---	---	---	---	---
Total crude materials, inedible except fuels	43	---	16	27	---	27	---	---
Subtotal forest products, wood and chips	41	---	14	27	---	27	---	---
4170 wood in the rough	14	---	14	---	---	---	---	---
4189 lumber	27	---	---	27	---	27	---	---
Subtotal pulp and waste paper	1	---	1	---	---	---	---	---
4225 pulp & waste paper	1	---	1	---	---	---	---	---
Subtotal iron ore and scrap	0	---	0	---	---	---	---	---
4420 iron & steel scrap	0	---	0	---	---	---	---	---
Subtotal non-ferrous ores and scrap	0	---	0	---	---	---	---	---
4680 non-ferrous scrap	0	---	0	---	---	---	---	---
Subtotal other non-metal. min.	0	---	0	---	---	---	---	---
4900 non-metal. min. nec	0	---	0	---	---	---	---	---
Total primary manufactured goods	54	53	1	---	---	---	---	---
Subtotal paper products	0	---	0	---	---	---	---	---
5120 paper & paperboard	0	---	0	---	---	---	---	---
Subtotal lime, cement and glass	1	---	1	---	---	---	---	---
5290 misc. mineral prod.	1	---	1	---	---	---	---	---
Subtotal primary iron and steel products	53	53	---	---	---	---	---	---
5330 i&s plates & sheets	52	52	---	---	---	---	---	---
5360 i&s bars & shapes	0	0	---	---	---	---	---	---
5370 i&s pipe & tube	0	0	---	---	---	---	---	---
Subtotal primary non-ferrous metal products	1	0	1	---	---	---	---	---
5422 aluminum	1	0	1	---	---	---	---	---
5480 fab. metal products	0	---	0	---	---	---	---	---
Total food and farm products	8,067	---	7,170	897	---	---	882	15
Subtotal grain	7,653	---	6,756	897	---	---	882	15
6241 wheat	2,553	---	1,716	837	---	---	822	15
6344 corn	4,604	---	4,604	---	---	---	---	---
6443 barley & rye	307	---	248	59	---	---	59	---
6447 sorghum grains	189	---	189	---	---	---	---	---
Subtotal oilseeds	236	---	236	---	---	---	---	---
6522 soybeans	236	---	236	---	---	---	---	---
Subtotal vegetable products	3	---	3	---	---	---	---	---
6654 vegetables & prod.	3	---	3	---	---	---	---	---
Subtotal processed grain and animal feed	175	---	175	---	---	---	---	---
6782 animal feed, prep.	175	---	175	---	---	---	---	---
Subtotal other agricultural products	1	---	1	---	---	---	---	---
6811 meat, fresh, frozen	0	---	0	---	---	---	---	---
6817 meat, prepared	0	---	0	---	---	---	---	---
6839 animals & prod. nec	0	---	0	---	---	---	---	---
6857 fruit & nuts nec	0	---	0	---	---	---	---	---
6889 food products nec	0	---	0	---	---	---	---	---
Total all manufactured equipment, machinery and products	0	0	0	---	---	---	---	---
7110 machinery (not elec)	0	---	0	---	---	---	---	---
7120 electrical machinery	0	---	0	---	---	---	---	---
7400 manufac. wood prod.	0	---	0	---	---	---	---	---
7500 textile products	0	---	0	---	---	---	---	---
7900 manufac. prod. nec	0	0	---	---	---	---	---	---

*Includes 24 (x1000) tons of foreign inbound in-transits; Includes 2 (x1000) tons of foreign outbound in-transits.

MULTNOMAH CHANNEL, OR

Section Included: A side channel from the Willamette River near Portland, OR, to the Columbia River near St. Helens, OR, a distance of about 22 miles. Controlling Depth: 18 feet in a 300-foot channel at north end; 8 feet in a 250-foot channel at south end; 8 to 50 feet in remainder of channel. Project Depth: 25 feet deep and 5,000 feet long at the Columbia River end; 25 feet deep and 9,500 feet long at the Willamette River end.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	866	1991	1,550	1994	1,360	1997	1,298
1989	1,597	1992	1,405	1995	1,616		
1990	1,740	1993	1,570	1996	1,783		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Coastwise Receipts	Domestic			
			Inbound		Outbound	
			Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	1,298	37	132	10	1,003	117
Total petroleum and petroleum products	10	---	---	10	---	---
Subtotal petroleum products	10	---	---	10	---	---
2340 residual fuel oil	10	---	---	10	---	---
Total crude materials, inedible except fuels	1,289	37	132	---	1,003	117
Subtotal forest products, wood and chips	43	37	6	---	---	---
4170 wood in the rough	43	37	6	---	---	---
Subtotal soil, sand, gravel, rock and stone	1,246	---	126	---	1,003	117
4331 sand & gravel	1,246	---	126	---	1,003	117
Ton-miles (x1000)	23,825	37	258	230	23,066	235
Tons All Traffic (x1000)	1,298					
Ton-miles All Traffic (x1000)	23,825					

OREGON SLOUGH (NORTH PORTLAND HARBOR), OR

Section Included: From deep water in the Columbia River to a point above the Portland Union Stock Yards, a distance of nearly 4 miles. Controlling Depth: 10 feet. Project Depth: 20 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	2,163	1991	2,182	1994	3,730	1997	3,608
1989	2,284	1992	2,794	1995	3,592		
1990	2,101	1993	3,089	1996	2,928		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Imports*	Exports*	Imports	Exports	Total	Coastwise Receipts	Internal	
								Inbound Upbound	Outbound Downbnd
Total, all commodities	3,608	482	2,421	27	1	677	6	474	196
Total coal	0	---	0	---	---	---	---	---	---
1100 coal lignite	0	---	0	---	---	---	---	---	---
Total petroleum and petroleum products	90	4	5	---	---	81	---	78	3
Subtotal petroleum products	90	4	5	---	---	81	---	78	3
2330 distillate fuel oil	0	---	0	---	---	---	---	---	---
2340 residual fuel oil	79	---	0	---	---	79	---	76	3
2350 lube oil & greases	5	0	3	---	---	2	---	2	---
2410 petro. jelly & waxes	1	0	1	---	---	---	---	---	---
2429 naphtha & solvents	0	---	0	---	---	---	---	---	---
2430 asphalt, tar & pitch	4	3	0	---	---	---	---	---	---
2540 petroleum coke	0	---	0	---	---	---	---	---	---
2640 liquid natural gas	0	---	0	---	---	---	---	---	---

OREGON SLOUGH (NORTH PORTLAND HARBOR), OR
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Imports*	Exports*	Imports	Exports	Total	Coastwise Receipts	Internal	
								Inbound Upbound	Outbound Downbnd
Total chemicals and related products	126	19	101	6	0	0	---	0	---
Subtotal fertilizers	1	0	1	---	---	---	---	---	---
3110 nitrogenous fert.	0	---	0	---	---	---	---	---	---
3130 potassic fert.	0	---	0	---	---	---	---	---	---
3190 fert. & mixes nec	1	0	1	---	---	---	---	---	---
Subtotal other chemicals and related products	124	19	100	6	0	---	0	---	---
3211 acyclic hydrocarbons	0	---	0	---	---	---	---	---	---
3219 other hydrocarbons	1	0	1	---	---	---	---	---	---
3220 alcohols	6	1	5	---	---	---	---	---	---
3230 carboxylic acids	4	0	4	---	---	---	---	---	---
3240 nitrogen func. comp.	4	0	4	---	---	---	---	---	---
3250 organo-inorganic comp.	1	0	1	---	---	---	---	---	---
3260 organic comp. nec	4	1	3	---	---	---	---	---	---
3272 sulphuric acid	0	0	---	---	---	---	---	---	---
3273 ammonia	0	0	---	---	---	---	---	---	---
3275 inorg. elem., oxides, & halogen salts	7	2	5	---	---	---	---	---	---
3276 metallic salts	4	1	3	---	---	---	---	---	---
3279 inorganic chem. nec	2	2	0	---	---	---	---	---	---
3281 radioactive material	0	---	0	---	---	---	---	---	---
3282 pigments & paints	2	0	2	---	---	---	---	---	---
3283 coloring mat. nec	1	0	1	---	---	---	---	---	---
3284 medicines	1	0	0	---	---	---	---	---	---
3285 perfumes & cleansers	7	3	4	---	---	---	---	---	---
3286 plastics	56	7	49	---	0	0	---	0	---
3291 pesticides	0	0	0	---	---	---	---	---	---
3292 starches, gluten, glue	6	0	6	---	---	---	---	---	---
3293 explosives	0	0	0	---	---	---	---	---	---
3297 chemical additives	3	0	3	---	---	---	---	---	---
3298 wood & resin chem.	10	0	4	6	---	---	---	---	---
3299 chem. products nec	6	1	5	---	---	---	---	---	---
Total crude materials, inedible except fuels	609	14	477	21	---	97	6	90	---
Subtotal forest products, wood and chips	278	13	237	21	---	6	6	---	---
4150 fuel wood	9	---	1	9	---	---	---	---	---
4161 wood chips	17	---	4	12	---	---	---	---	---
4170 wood in the rough	46	---	40	---	---	6	6	---	---
4189 lumber	206	13	193	---	---	---	---	---	---
4190 forest products nec	0	0	0	---	---	---	---	---	---
Subtotal pulp and waste paper	120	---	120	---	---	0	---	0	---
4225 pulp & waste paper	120	---	120	---	---	0	---	0	---
Subtotal soil, sand, gravel, rock and stone	97	0	10	---	---	87	---	87	---
4310 building stone	0	0	0	---	---	---	---	---	---
4322 limestone	1	---	1	---	---	---	---	---	---
4323 gypsum	1	---	1	---	---	---	---	---	---
4327 phosphate rock	1	---	1	---	---	---	---	---	---
4331 sand & gravel	94	---	7	---	---	87	---	87	---
Subtotal iron ore and scrap	38	---	38	---	---	---	---	---	---
4420 iron & steel scrap	38	---	38	---	---	---	---	---	---
Subtotal marine shells	0	0	---	---	---	---	---	---	---
4515 marine shells	0	0	---	---	---	---	---	---	---

OREGON SLOUGH (NORTH PORTLAND HARBOR), OR
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Imports*	Exports*	Imports	Exports	Total	Coastwise Receipts	Internal	
								Inbound Upbound	Outbound Downbnd
Subtotal non-ferrous ores and scrap	48	0	47	---	---	---	---	---	---
4630 copper ore	8	---	8	---	---	---	---	---	---
4650 aluminum ore	1	0	1	---	---	---	---	---	---
4680 non-ferrous scrap	39	0	39	---	---	---	---	---	---
4690 non-ferrous ores nec	0	---	0	---	---	---	---	---	---
Subtotal sulphur, clay and salt	9	---	6	---	---	3	---	3	---
4741 sulphur, (dry)	0	---	0	---	---	---	---	---	---
4782 clay & refrac. mat.	9	---	6	---	---	3	---	3	---
Subtotal slag	1	---	1	---	---	---	---	---	---
4860 slag	1	---	1	---	---	---	---	---	---
Subtotal other non-metal. min.	18	0	18	---	---	0	---	0	---
4900 non-metal. min. nec	18	0	18	---	---	0	---	0	---
Total primary manufactured goods	780	135	561	---	0	83	---	65	19
Subtotal paper products	406	5	355	---	---	45	---	45	0
5110 newsprint	44	0	44	---	---	---	---	---	---
5120 paper & paperboard	305	4	301	---	---	---	---	---	---
5190 paper products nec	56	1	10	---	---	45	---	45	0
Subtotal lime, cement and glass	70	16	54	---	---	0	---	0	0
5220 cement & concrete	4	---	4	---	---	---	---	---	---
5240 glass & glass prod.	9	1	8	---	---	---	---	---	---
5290 misc. mineral prod.	57	14	43	---	---	0	---	0	0
Subtotal primary iron and steel products	96	84	12	---	0	---	---	---	---
5312 pig iron	59	58	1	---	---	---	---	---	---
5315 ferro alloys	9	0	9	---	---	---	---	---	---
5320 i&s primary forms	0	---	0	---	---	---	---	---	---
5330 i&s plates & sheets	9	8	2	---	---	---	---	---	---
5360 i&s bars & shapes	1	1	0	---	---	---	---	---	---
5370 i&s pipe & tube	12	12	0	---	0	---	---	---	---
5390 primary i&s nec	5	5	0	---	---	---	---	---	---
Subtotal primary non-ferrous metal products	93	28	26	---	---	38	---	20	18
5421 copper	1	0	1	---	---	---	---	---	---
5422 aluminum	17	0	17	---	---	0	---	---	0
5429 smelted prod. nec	4	2	2	---	---	---	---	---	---
5480 fab. metal products	71	26	7	---	---	38	---	20	18
Subtotal primary wood products	116	2	114	---	---	---	---	---	---
5540 primary wood prod.	116	2	114	---	---	---	---	---	---
Total food and farm products	1,254	27	1,136	0	0	91	---	91	0
Subtotal fish	3	---	3	0	---	---	---	---	---
6134 fish (not shellfish)	3	---	3	0	---	---	---	---	---
6136 shellfish	0	---	0	---	---	---	---	---	---
Subtotal grain	283	2	278	---	---	3	---	3	0
6241 wheat	264	---	262	---	---	1	---	1	0
6344 corn	17	---	15	---	---	2	---	1	0
6442 rice	2	2	1	---	---	---	---	---	---
6443 barley & rye	1	---	1	---	---	---	---	---	---
6445 oats	0	---	0	---	---	---	---	---	---
Subtotal oilseeds	25	---	25	---	---	---	---	---	---
6522 soybeans	22	---	22	---	---	---	---	---	---
6590 oilseeds nec	3	---	3	---	---	---	---	---	---
Subtotal vegetable products	290	5	246	---	0	39	---	39	0
6653 vegetable oils	1	1	1	---	---	---	---	---	---

OREGON SLOUGH (NORTH PORTLAND HARBOR), OR
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Imports*	Exports*	Imports	Exports	Total	Coastwise Receipts	Internal	
								Inbound Upbound	Outbound Downbnd
6654 vegetables & prod.	289	5	245	—	0	39	—	39	0
Subtotal processed grain and animal feed	487	1	447	—	0	39	—	39	0
6746 wheat flour	0	0	0	—	—	—	—	—	—
6747 grain mill products	65	1	57	—	0	7	—	7	0
6781 hay & fodder	367	—	335	—	—	32	—	32	—
6782 animal feed, prep.	55	0	55	—	—	—	—	—	—
Subtotal other agricultural products	165	19	136	—	—	10	—	10	—
6811 meat, fresh, frozen	13	—	13	—	—	—	—	—	—
6817 meat, prepared	11	—	11	—	—	—	—	—	—
6822 dairy products	8	—	8	—	—	—	—	—	—
6835 fish, prepared	3	0	3	—	—	—	—	—	—
6838 tallow, animal oils	0	—	0	—	—	—	—	—	—
6839 animals & prod. nec	42	0	31	—	—	10	—	10	—
6856 bananas & plantains	0	0	—	—	—	—	—	—	—
6857 fruit & nuts nec	7	0	7	—	—	—	—	—	—
6858 fruit juices	18	5	13	—	—	—	—	—	—
6861 sugar	0	—	0	—	—	—	—	—	—
6865 molasses	0	—	0	—	—	—	—	—	—
6871 coffee	0	0	0	—	—	—	—	—	—
6872 cocoa beans	0	0	—	—	—	—	—	—	—
6885 alcoholic beverages	14	9	5	—	—	—	—	—	—
6888 water & ice	1	1	0	—	—	—	—	—	—
6889 food products nec	18	1	17	—	—	—	—	—	—
6891 tobacco & products	1	—	1	—	—	—	—	—	—
6893 cotton	9	—	9	—	—	—	—	—	—
6899 farm products nec	17	1	17	—	—	—	—	—	—
Total all manufactured equipment, machinery and products	742	282	135	0	1	324	—	150	174
7110 machinery (not elec)	45	12	32	—	1	—	—	—	—
7120 electrical machinery	36	18	18	—	—	0	—	0	—
7210 vehicles & parts	235	196	39	—	—	—	—	—	—
7220 aircraft & parts	0	0	0	—	—	—	—	—	—
7230 ships & boats	0	0	0	—	—	0	—	0	—
7300 ordnance & access.	0	—	0	—	—	—	—	—	—
7400 manufac. wood prod.	12	2	10	—	—	—	—	—	—
7500 textile products	12	7	5	—	—	—	—	—	—
7600 rubber & plastic pr.	12	7	5	—	0	0	—	0	0
7800 empty containers	324	—	—	—	—	324	—	150	174
7900 manufac. prod. nec	65	39	26	0	0	0	—	0	—
Total waste and scrap nec	0	—	—	—	—	0	—	0	—
8900 waste and scrap nec	0	—	—	—	—	0	—	0	—
Total unknown or not elsewhere classified	7	2	6	—	—	—	—	—	—
9900 unknown or nec	7	2	6	—	—	—	—	—	—

*Includes 4 (x1000) tons of foreign inbound in-transits; Includes 37 (x1000) tons of foreign outbound in-transits.

PORT OF VANCOUVER, WA

Section Included: (Statistics for that section of the port below Interstate Bridge are also included in the statistics for Columbia and Lower Willamette Rivers below Vancouver, WA, and Portland, OR, and statistics for section above Interstate Bridge are also included in statistics for Columbia River from Vancouver, WA, to the Dalles, OR). Controlling Depth: 35 feet at low water for that section of the port below Railroad Bridge and 14 feet for that section of the port above Interstate Bridge. Project Depth: 40 feet at low water in the lower turning basin and 35 feet at low water in the upper turning basin.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	3,375	1991	6,485	1994	6,281	1997	7,838
1989	3,459	1992	6,839	1995	7,535		
1990	7,073	1993	7,380	1996	7,704		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports*
Total, all commodities	5,222	756	4,450	14	2
Total coal	21	21	—	—	—
1100 coal lignite	21	21	—	—	—
Total petroleum and petroleum products	37	25	—	12	—
Subtotal petroleum products	37	25	—	12	—
2211 gasoline	5	—	—	5	—
2330 distillate fuel oil	3	—	—	3	—
2340 residual fuel oil	5	—	—	5	—
2430 asphalt, tar & pitch	25	25	—	—	—
Total chemicals and related products	207	89	117	—	—
Subtotal fertilizers	66	66	—	—	—
3110 nitrogenous fert.	58	58	—	—	—
3190 fert. & mixes nec	9	9	—	—	—
Subtotal other chemicals and related products	140	23	117	—	—
3220 alcohols	20	20	—	—	—
3230 carboxylic acids	0	0	—	—	—
3274 sodium hydroxide	11	—	11	—	—
3276 metallic salts	107	3	104	—	—
3282 pigments & paints	0	0	—	—	—
3284 medicines	0	0	—	—	—
3285 perfumes & cleansers	0	—	0	—	—
3286 plastics	0	0	0	—	—
3297 chemical additives	0	—	0	—	—
3298 wood & resin chem.	2	—	2	—	—
Total crude materials, inedible except fuels	883	415	465	2	2
Subtotal forest products, wood and chips	128	10	115	2	2
4150 fuel wood	2	—	—	2	—
4170 wood in the rough	29	0	29	—	—
4189 lumber	97	10	86	—	2
Subtotal pulp and waste paper	105	25	79	—	—
4225 pulp & waste paper	105	25	79	—	—
Subtotal non-ferrous ores and scrap	532	379	153	—	—
4630 copper ore	127	—	127	—	—
4650 aluminum ore	380	379	0	—	—
4690 non-ferrous ores nec	26	—	26	—	—
Subtotal sulphur, clay and salt	118	—	118	—	—
4782 clay & refrac. mat.	118	—	118	—	—
Subtotal other non-metal. min.	0	—	0	—	—
4900 non-metal. min. nec	0	—	0	—	—
Total primary manufactured goods	154	136	18	—	0
Subtotal paper products	7	—	7	—	—
5120 paper & paperboard	7	—	7	—	—
Subtotal lime, cement and glass	0	0	0	—	—
5240 glass & glass prod.	0	0	0	—	—
5290 misc. mineral prod.	0	0	0	—	—
Subtotal primary iron and steel products	106	106	0	—	—
5320 i&s primary forms	7	7	—	—	—
5330 i&s plates & sheets	58	58	0	—	—
5360 i&s bars & shapes	11	11	0	—	—
5370 i&s pipe & tube	29	29	—	—	—
5390 primary i&s nec	1	1	—	—	—
Subtotal primary non-ferrous metal products	0	0	0	—	—
5422 aluminum	0	0	0	—	—
5480 fab. metal products	0	0	—	—	—
Subtotal primary wood products	41	30	11	—	0
5540 primary wood prod.	41	30	11	—	0
Total food and farm products	3,848	0	3,848	—	—
Subtotal fish	0	—	0	—	—
6134 fish (not shellfish)	0	—	0	—	—
Subtotal grain	3,835	—	3,835	—	—
6241 wheat	3,807	—	3,807	—	—
6344 corn	28	—	28	—	—
Subtotal oilseeds	0	—	0	—	—
6521 peanuts	0	—	0	—	—
Subtotal vegetable products	0	0	0	—	—
6653 vegetable oils	0	—	0	—	—
6654 vegetables & prod.	0	0	0	—	—
Subtotal processed grain and animal feed	10	—	10	—	—
6747 grain mill products	0	—	0	—	—

PORT OF VANCOUVER, WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports*
6781 hay & fodder	4	—	4	—	—
6782 animal feed, prep.	5	—	5	—	—
Subtotal other agricultural products	3	0	3	—	—
6811 meat, fresh, frozen	0	—	0	—	—
6835 fish, prepared	0	0	—	—	—
6857 fruit & nuts nec	2	—	2	—	—
6858 fruit juices	1	0	1	—	—
6885 alcoholic beverages	0	0	0	—	—
6889 food products nec	0	0	0	—	—
Total all manufactured equipment, machinery and products	71	70	1	—	0
7110 machinery (not elec)	1	0	0	—	—
7120 electrical machinery	0	0	0	—	—
7210 vehicles & parts	69	69	0	—	—
7220 aircraft & parts	0	—	0	—	—
7230 ships & boats	0	0	0	—	0
7300 ordnance & access.	0	—	0	—	—
7400 manufac. wood prod.	0	0	0	—	—
7500 textile products	0	0	0	—	—
7600 rubber & plastic pr.	0	0	—	—	—
7900 manufac. prod. nec	0	0	0	—	—
Total unknown or not elsewhere classified	0	0	0	—	—
9900 unknown or nec	0	0	0	—	—

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	2,616	85	42	1,716	768	6
Total petroleum and petroleum products	318	82	36	153	41	6
Subtotal petroleum products	318	82	36	153	41	6
2211 gasoline	114	56	36	2	13	6
2330 distillate fuel oil	48	26	—	3	20	—
2340 residual fuel oil	150	—	—	143	8	—
2350 lube oil & greases	5	—	—	5	0	—
2540 petroleum coke	1	—	—	1	—	—
Total chemicals and related products	27	2	6	19	—	—
Subtotal fertilizers	20	—	1	19	—	—
3110 nitrogenous fert.	7	—	1	6	—	—
3190 fert. & mixes nec	12	—	—	12	—	—
Subtotal other chemicals and related products	7	2	5	—	—	—
3220 alcohols	7	2	5	—	—	—
Total crude materials, inedible except fuels	644	—	—	16	628	0
Subtotal forest products, wood and chips	3	—	—	3	0	0
4170 wood in the rough	3	—	—	3	0	0
Subtotal pulp and waste paper	7	—	—	7	—	—
4225 pulp & waste paper	7	—	—	7	—	—
Subtotal soil, sand, gravel, rock and stone	634	—	—	6	627	—
4331 sand & gravel	634	—	—	6	627	—
Total primary manufactured goods	2	—	—	2	0	—
Subtotal primary non-ferrous metal products	2	—	—	2	0	—
5480 fab. metal products	2	—	—	2	0	—
Total food and farm products	1,467	—	—	1,465	2	—
Subtotal fish	0	—	—	0	—	—
6134 fish (not shellfish)	0	—	—	0	—	—
Subtotal grain	1,467	—	—	1,465	2	—
6241 wheat	1,467	—	—	1,465	2	—
Total all manufactured equipment, machinery and products	50	0	—	50	0	—
7110 machinery (not elec)	0	0	—	—	—	—
7800 empty containers	50	—	—	50	0	—
Total waste and scrap nec	109	—	—	11	97	0
8900 waste and scrap nec	109	—	—	11	97	0

*Includes 10 (x1000) tons of foreign inbound in-transits; Includes 14 (x1000) tons of foreign outbound in-transits; Includes 0 (x1000) tons of Canadian outbound in-transits.

COLUMBIA RIVER BETWEEN VANCOUVER, WA AND THE DALLES, OR

Section Included: Columbia River between Vancouver, WA, and the Dalles, OR, a distance of about 85 miles. Controlling Depth: 15 feet between Vancouver and the Dalles. Project Depth: 27 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	12,375	1991	10,210	1994	11,277	1997	10,923
1989	9,246	1992	10,671	1995	11,626		
1990	9,735	1993	10,843	1996	10,733		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Coastwise		
		Receipts	Through Upbound	Downbnd
Total, all commodities	82	45	4	32
Total chemicals and related products	32	---	---	32
Subtotal fertilizers	32	---	---	32
3110 nitrogenous fert.	32	---	---	32
Total crude materials, inedible except fuels	48	45	2	---
Subtotal forest products, wood and chips	45	45	---	---
4161 wood chips	45	45	---	---
Subtotal other non-metal. min.	2	---	2	---
4900 non-metal. min. nec	2	---	2	---
Total primary manufactured goods	1	---	1	---
Subtotal primary non-ferrous metal products	1	---	1	---
5480 fab. metal products	1	---	1	---
Total all manufactured equipment, machinery and products	1	---	1	---
7110 machinery (not elec)	1	---	1	---
Ton-miles (x1000)	3,664	590	326	2,748
Coastwise				

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	10,841	317	335	122	584	2,484	6,747	98	155
Total petroleum and petroleum products	2,048	2	---	---	---	2,046	---	---	---
Subtotal petroleum products	2,048	2	---	---	---	2,046	---	---	---
2211 gasoline	1,079	---	---	---	---	1,079	---	---	---
2330 distillate fuel oil	967	---	---	---	---	967	---	---	---
2340 residual fuel oil	2	2	---	---	---	---	---	---	---
Total chemicals and related products	161	13	---	---	---	144	5	---	---
Subtotal fertilizers	33	13	---	---	---	16	5	---	---
3110 nitrogenous fert.	22	8	---	---	---	11	3	---	---
3190 fert. & mixes nec	12	5	---	---	---	5	2	---	---
Subtotal other chemicals and related products	128	---	---	---	---	128	0	---	---
3273 ammonia	99	---	---	---	---	99	---	---	---
3274 sodium hydroxide	29	---	---	---	---	29	---	---	---
3286 plastics	0	---	---	---	---	---	0	---	---
Total crude materials, inedible except fuels	1,673	291	311	---	217	---	602	98	155
Subtotal forest products, wood and chips	1,488	196	267	---	214	---	558	98	155
4150 fuel wood	9	9	---	---	---	---	---	---	---
4161 wood chips	1,234	187	170	---	166	---	550	91	70
4170 wood in the rough	244	---	98	---	48	---	8	7	84
4189 lumber	0	---	---	---	0	---	---	---	---

COLUMBIA RIVER BETWEEN VANCOUVER, WA AND THE DALLES, OR
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Subtotal pulp and waste paper	31	23	---	---	1	---	7	---	---
4225 pulp & waste paper	31	23	---	---	1	---	7	---	---
Subtotal soil, sand, gravel, rock and stone	152	72	44	---	1	---	34	---	---
4331 sand & gravel	152	72	44	---	1	---	34	---	---
Subtotal sulphur, clay and salt	3	---	---	---	---	---	3	---	---
4782 clay & refrac. mat.	3	---	---	---	---	---	3	---	---
Subtotal other non-metal. min.	0	---	---	---	---	---	0	---	---
4900 non-metal. min. nec	0	---	---	---	---	---	0	---	---
Total primary manufactured goods	392	11	---	---	295	19	67	---	---
Subtotal paper products	349	8	---	---	295	0	45	---	---
5120 paper & paperboard	304	8	---	---	295	---	---	---	---
5190 paper products nec	45	---	---	---	---	0	45	---	---
Subtotal lime, cement and glass	0	---	---	---	---	0	0	---	---
5290 misc. mineral prod.	0	---	---	---	---	0	0	---	---
Subtotal primary iron and steel products	2	2	---	---	---	---	---	---	---
5370 i&s pipe & tube	2	2	---	---	---	---	---	---	---
Subtotal primary non-ferrous metal products	41	---	---	---	0	18	22	---	---
5422 aluminum	0	---	---	---	---	0	---	---	---
5480 fab. metal products	41	---	---	---	0	18	22	---	---
Total food and farm products	5,931	0	---	---	71	3	5,856	---	---
Subtotal fish	0	0	---	---	---	---	---	---	---
6134 fish (not shellfish)	0	0	---	---	---	---	---	---	---
6136 shellfish	0	0	---	---	---	---	---	---	---
Subtotal grain	5,842	---	---	---	71	3	5,768	---	---
6241 wheat	5,391	---	---	---	71	2	5,317	---	---
6344 corn	2	---	---	---	---	0	1	---	---
6443 barley & rye	449	---	---	---	---	---	449	---	---
Subtotal vegetable products	39	---	---	---	---	0	39	---	---
6654 vegetables & prod.	39	---	---	---	---	0	39	---	---
Subtotal processed grain and animal feed	39	---	---	---	---	0	39	---	---
6747 grain mill products	7	---	---	---	---	0	7	---	---
6781 hay & fodder	32	---	---	---	---	---	32	---	---
Subtotal other agricultural products	10	---	---	---	---	---	10	---	---
6839 animals & prod. nec	10	---	---	---	---	---	10	---	---
Total all manufactured equipment, machinery and products	406	0	23	2	---	175	206	---	---
7120 electrical machinery	0	---	---	---	---	---	0	---	---
7230 ships & boats	0	---	---	---	---	---	0	---	---
7600 rubber & plastic pr.	0	---	---	---	---	0	0	---	---
7800 empty containers	406	0	23	2	---	175	206	---	---
7900 manufac. prod. nec	0	---	---	---	---	---	0	---	---
Total waste and scrap nec	230	---	0	121	---	97	12	---	---
8900 waste and scrap nec	230	---	0	121	---	97	12	---	---

COLUMBIA RIVER BETWEEN VANCOUVER, WA AND THE DALLES, OR
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Ton-miles Internal (x1000)	850,437	3,854	20,657	10,150	25,486	211,109	573,524	232	5,426
Tons All Traffic (x1000)		10,923							
Ton-miles All Traffic (x1000)		854,101							

COLUMBIA RIVER ABOVE THE DALLES DAM, WA AND OR TO McNARY LOCK AND DAM, OR AND WA

Section Included: Columbia River between the Dalles Dam and McNary Lock and Dam, a distance of about 91 miles. Controlling Depth: within the Dalles and John Day Pools, 14 feet. Project Depth: 14 feet at adopted low water.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	8,846	1991	7,665	1994	9,246	1997	9,754
1989	7,071	1992	7,580	1995	9,802		
1990	7,392	1993	8,469	1996	9,061		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Domestic							
		Coastwise		Internal				Through	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	9,754	3	32	626	24	5	1,574	1,980	5,509
Total petroleum and petroleum products	2,055	---	---	375	4	5	---	1,671	---
Subtotal petroleum products	2,055	---	---	375	4	5	---	1,671	---
2211 gasoline	1,079	---	---	1	---	---	---	1,078	---
2330 distillate fuel oil	976	---	---	374	4	5	---	593	---
Total chemicals and related products	202	---	32	16	21	---	5	128	0
Subtotal fertilizers	74	---	32	16	21	---	5	---	---
3110 nitrogenous fert.	61	---	32	11	15	---	3	---	---
3190 fert. & mixes nec	12	---	---	5	5	---	2	---	---
Subtotal other chemicals and related products	128	---	---	---	---	---	---	128	0
3273 ammonia	99	---	---	---	---	---	---	99	---
3274 sodium hydroxide	29	---	---	---	---	---	---	29	---
3286 plastics	0	---	---	---	---	---	---	---	0
Total crude materials, inedible except fuels	915	2	---	---	---	---	371	---	541
Subtotal forest products, wood and chips	825	---	---	---	---	---	293	---	532
4161 wood chips	719	---	---	---	---	---	293	---	426
4170 wood in the rough	105	---	---	---	---	---	---	---	105
Subtotal pulp and waste paper	7	---	---	---	---	---	---	---	7
4225 pulp & waste paper	7	---	---	---	---	---	---	---	7
Subtotal soil, sand, gravel, rock and stone	78	---	---	---	---	---	78	---	---
4331 sand & gravel	78	---	---	---	---	---	78	---	---
Subtotal sulphur, clay and salt	3	---	---	---	---	---	---	---	3
4782 clay & refrac. mat.	3	---	---	---	---	---	---	---	3
Subtotal other non-metal. min.	3	2	---	---	---	---	---	---	0
4900 non-metal. min. nec	3	2	---	---	---	---	---	---	0

COLUMBIA RIVER ABOVE THE DALLES DAM, WA AND OR TO MCNARY LOCK AND DAM, OR AND WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Domestic							
		Coastwise		Internal				Through	
		Through		Inbound		Outbound		Through	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total primary manufactured goods	86	0	---	0	---	---	0	19	66
Subtotal paper products	45	---	---	---	---	---	---	0	45
5190 paper products nec	45	---	---	---	---	---	---	0	45
Subtotal lime, cement and glass	0	---	---	---	---	---	---	0	0
5290 misc. mineral prod.	0	---	---	---	---	---	---	0	0
Subtotal primary non-ferrous metal products	41	0	---	0	---	---	0	18	22
5422 aluminum	0	---	---	---	---	---	---	0	---
5480 fab. metal products	41	0	---	0	---	---	0	18	22
Total food and farm products	5,859	---	---	---	---	---	976	3	4,880
Subtotal grain	5,771	---	---	---	---	---	976	3	4,792
6241 wheat	5,320	---	---	---	---	---	945	2	4,372
6344 corn	2	---	---	---	---	---	---	0	1
6443 barley & rye	449	---	---	---	---	---	31	---	419
Subtotal vegetable products	39	---	---	---	---	---	---	0	39
6654 vegetables & prod.	39	---	---	---	---	---	---	0	39
Subtotal processed grain and animal feed	39	---	---	---	---	---	---	0	39
6747 grain mill products	7	---	---	---	---	---	---	0	7
6781 hay & fodder	32	---	---	---	---	---	---	---	32
Subtotal other agricultural products	10	---	---	---	---	---	---	---	10
6839 animals & prod. nec	10	---	---	---	---	---	---	---	10
Total all manufactured equipment, machinery and products	407	1	---	17	---	---	210	160	20
7110 machinery (not elec)	1	1	---	---	---	---	---	---	---
7120 electrical machinery	0	---	---	---	---	---	---	---	0
7230 ships & boats	0	---	---	---	---	---	---	---	0
7600 rubber & plastic pr.	0	---	---	---	---	---	---	0	0
7800 empty containers	406	---	---	17	---	---	210	160	20
7900 manufac. prod. nec	0	---	---	---	---	---	---	---	0
Total waste and scrap nec	230	---	---	218	---	---	12	---	0
8900 waste and scrap nec	230	---	---	218	---	---	12	---	0
Ton-miles (x1000)	901,481	339	3,169	56,635	0	0	107,437	194,043	539,859
Tons All Traffic (x1000)				9,754					
Ton-miles All Traffic (x1000)				901,490					

PORT OF PORTLAND, OR

Section Included: (Statistics for that section of Portland Harbor below Ross Island Bridge are also included in statistics for Columbia and Lower Willamette Rivers below Vancouver, WA, and Portland, OR, and statistics for section above Ross Island Bridge are also included in statistics for Willamette River above Portland and Yamhill River, OR). Controlling depth: 28 feet from mouth to Broadway Bridge; 20 feet at low water above Ross Island Bridge to Lake Oswego: 9 feet to Oregon City. Project Depth: 40 feet at low water below Broadway Bridge; 30 feet from Broadway Bridge to foot of Ross Island, maintained by port of Portland; 8 feet at low water above foot of Ross Island. Statistics for section of Oregon Slough (North Portland Harbor), OR, are also included. Controlling Depth: 10 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	31,971	1991	29,299	1994	30,164	1997	29,561
1989	30,030	1992	28,227	1995	31,256		
1990	27,475	1993	29,804	1996	29,734		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports
Total, all commodities	16,539	2,719	13,087	651	81
Total coal	0	---	0	---	---
1100 coal lignite	0	---	0	---	---
1200 coal coke	0	---	0	---	---
Total petroleum and petroleum products	577	460	14	79	24
Subtotal crude petroleum	343	343	---	---	---
2100 crude petroleum	343	343	---	---	---
Subtotal petroleum products	234	116	14	79	24
2211 gasoline	133	64	---	63	6
2221 kerosene	6	---	---	---	6
2330 distillate fuel oil	25	9	0	16	---
2340 residual fuel oil	12	---	0	---	12
2350 lube oil & greases	4	0	4	---	---
2410 petro. jelly & waxes	1	0	1	---	---
2429 naphtha & solvents	0	---	0	---	---
2430 asphalt, tar & pitch	43	43	0	---	---
2540 petroleum coke	9	---	9	---	---
2640 liquid natural gas	0	---	0	---	---
Total chemicals and related products	3,154	82	3,007	9	57
Subtotal fertilizers	408	0	408	---	---
3110 nitrogenous fert.	110	---	110	---	---
3130 potassic fert.	297	---	297	---	---
3190 fert. & mixes nec	1	0	1	---	---
Subtotal other chemicals and related products	2,746	82	2,599	9	57
3211 acyclic hydrocarbons	1	---	1	---	---
3219 other hydrocarbons	1	0	1	---	---
3220 alcohols	66	60	6	---	---
3230 carboxylic acids	4	0	4	---	---
3240 nitrogen func. comp.	5	0	5	---	---
3250 organo-inorganic comp.	2	0	2	---	---
3260 organic comp. nec	4	1	4	---	---
3272 sulphuric acid	0	0	0	---	---
3273 ammonia	0	0	0	---	---
3274 sodium hydroxide	19	---	2	---	17
3275 inorg. elem., oxides, & halogen salts	13	5	8	---	---
3276 metallic salts	2,526	1	2,485	---	40
3279 inorganic chem. nec	2	2	0	---	---
3281 radioactive material	0	0	0	---	---
3282 pigments & paints	3	0	3	---	---
3283 coloring mat. nec	1	0	1	---	---
3284 medicines	1	0	0	---	---
3285 perfumes & cleansers	8	3	5	---	---
3286 plastics	62	7	55	---	0
3291 pesticides	1	0	1	---	---
3292 starches, gluten, glue	6	0	6	---	---
3293 explosives	0	0	0	---	---
3297 chemical additives	3	0	3	---	---
3298 wood & resin chem.	13	0	4	9	---
3299 chem. products nec	6	1	5	---	---
Total crude materials, inedible except fuels	2,100	745	793	563	---
Subtotal forest products, wood and chips	499	103	366	30	---
4150 fuel wood	14	---	1	14	---
4161 wood chips	21	---	4	17	---
4170 wood in the rough	171	36	135	---	---
4189 lumber	293	66	226	---	---
4190 forest products nec	0	0	0	---	---
Subtotal pulp and waste paper	139	10	129	---	---
4225 pulp & waste paper	139	10	129	---	---
Subtotal soil, sand, gravel, rock and stone	542	0	10	532	---
4310 building stone	0	0	0	---	---
4322 limestone	533	---	1	532	---
4323 gypsum	1	---	1	---	---
4327 phosphate rock	1	---	1	---	---
4331 sand & gravel	7	---	7	---	---
Subtotal iron ore and scrap	127	---	127	---	---
4420 iron & steel scrap	127	---	127	---	---
Subtotal marine shells	0	0	---	---	---
4515 marine shells	0	0	---	---	---

PORT OF PORTLAND, OR
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports
Subtotal non-ferrous ores and scrap	362	300	61	---	---
4630 copper ore	8	---	8	---	---
4650 aluminum ore	301	300	1	---	---
4680 non-ferrous scrap	39	0	39	---	---
4690 non-ferrous ores nec	14	---	14	---	---
Subtotal sulphur, clay and salt	80	0	80	---	---
4741 sulphur, (dry)	42	---	42	---	---
4782 clay & refrac. mat.	37	0	37	---	---
Subtotal slag	1	---	1	---	---
4860 slag	1	---	1	---	---
Subtotal other non-metal. min.	351	332	18	---	---
4900 non-metal. min. nec	351	332	18	---	---
Total primary manufactured goods	1,525	924	601	0	0
Subtotal paper products	388	6	381	0	---
5110 newsprint	47	0	47	0	---
5120 paper & paperboard	328	5	323	---	---
5190 paper products nec	12	1	11	---	---
Subtotal lime, cement and glass	563	504	59	0	---
5220 cement & concrete	487	483	4	---	---
5240 glass & glass prod.	9	1	8	---	---
5290 misc. mineral prod.	66	19	47	0	---
Subtotal primary iron and steel products	392	379	13	---	0
5312 pig iron	119	118	1	---	---
5315 ferro alloys	29	20	9	---	---
5320 i&s primary forms	17	17	0	---	---
5330 i&s plates & sheets	56	54	2	---	---
5360 i&s bars & shapes	12	11	0	---	---
5370 i&s pipe & tube	29	28	1	---	0
5390 primary i&s nec	132	131	0	---	---
Subtotal primary non-ferrous metal products	59	29	30	---	---
5421 copper	2	0	2	---	---
5422 aluminum	18	0	18	---	---
5429 smelted prod. nec	4	2	2	---	---
5480 fab. metal products	35	27	8	---	---
Subtotal primary wood products	123	5	118	---	---
5540 primary wood prod.	123	5	118	---	---
Total food and farm products	8,552	45	8,506	0	0
Subtotal fish	4	0	3	0	---
6134 fish (not shellfish)	3	0	3	0	---
6136 shellfish	0	---	0	---	---
Subtotal grain	7,320	2	7,318	---	---
6241 wheat	6,519	---	6,519	---	---
6344 corn	137	---	137	---	---
6442 rice	2	2	1	---	---
6443 barley & rye	654	---	654	---	---
6445 oats	0	---	0	---	---
6447 sorghum grains	8	---	8	---	---
Subtotal oilseeds	30	---	30	---	---
6522 soybeans	27	---	27	---	---
6590 oilseeds nec	3	---	3	---	---
Subtotal vegetable products	285	7	278	---	0
6653 vegetable oils	8	1	7	---	---
6654 vegetables & prod.	277	6	272	---	0
Subtotal processed grain and animal feed	733	2	731	---	0
6746 wheat flour	1	0	1	---	---
6747 grain mill products	68	1	67	---	0
6781 hay & fodder	357	---	357	---	---
6782 animal feed, prep.	306	0	306	---	---
Subtotal other agricultural products	181	35	146	0	---
6811 meat, fresh, frozen	14	---	14	---	---
6817 meat, prepared	11	---	11	---	---
6822 dairy products	9	0	9	---	---
6835 fish, prepared	4	0	3	---	---
6838 tallow, animal oils	0	---	0	---	---
6839 animals & prod. nec	33	0	33	---	---
6856 bananas & plantains	0	0	---	---	---
6857 fruit & nuts nec	8	1	8	---	---
6858 fruit juices	26	11	15	---	---
6861 sugar	0	---	0	---	---
6865 molasses	0	---	0	---	---
6871 coffee	1	0	0	---	---
6872 cocoa beans	0	0	0	---	---
6885 alcoholic beverages	25	19	6	0	---
6888 water & ice	1	1	0	---	---
6889 food products nec	20	2	19	---	---
6891 tobacco & products	1	---	1	---	---
6893 cotton	10	---	10	---	---
6899 farm products nec	19	1	18	---	---
Total all manufactured equipment, machinery and products	621	461	159	0	1
7110 machinery (not elec)	50	15	34	---	1
7120 electrical machinery	43	19	23	---	---
7210 vehicles & parts	412	367	45	---	---
7220 aircraft & parts	0	0	0	---	---
7230 ships & boats	0	0	0	---	---
7300 ordnance & access.	0	---	0	---	---
7400 manufac. wood prod.	13	2	11	---	---
7500 textile products	15	8	7	---	---
7600 rubber & plastic pr.	14	8	6	---	0
7900 manufac. prod. nec	74	42	32	0	0

PORT OF PORTLAND, OR
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports
Total unknown or not elsewhere classified	9	2	6	1	—
9900 unknown or nec	9	2	6	1	—

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	13,022	3,054	294	5,491	2,887	1,295
Total petroleum and petroleum products	5,827	2,778	160	8	2,499	382
Subtotal crude petroleum	40	40	—	—	—	—
2100 crude petroleum	40	40	—	—	—	—
Subtotal petroleum products	5,786	2,737	160	8	2,499	382
2211 gasoline	2,747	1,594	70	—	1,068	15
2330 distillate fuel oil	1,471	456	28	—	950	36
2340 residual fuel oil	1,340	493	53	8	464	322
2350 lube oil & greases	82	58	—	0	15	9
2429 naphtha & solvents	9	—	9	—	—	—
2430 asphalt, tar & pitch	135	135	—	—	—	—
2540 petroleum coke	2	—	—	—	2	0
2990 petro. products nec	0	0	—	—	—	—
Total chemicals and related products	500	249	100	0	149	2
Subtotal fertilizers	108	87	—	—	22	—
3110 nitrogenous fert.	103	87	—	—	17	—
3190 fert. & mixes nec	5	—	—	—	5	—
Subtotal other chemicals and related products	392	163	100	0	128	2
3220 alcohols	92	59	33	—	—	—
3273 ammonia	202	103	—	—	99	—
3274 sodium hydroxide	96	—	65	—	29	2
3286 plastics	1	—	1	0	—	—
Total crude materials, inedible except fuels	2,159	6	17	1,200	29	906
Subtotal forest products, wood and chips	24	6	17	0	—	—
4161 wood chips	0	—	0	—	—	—
4170 wood in the rough	9	6	3	0	—	—
4189 lumber	15	—	14	0	—	—
Subtotal pulp and waste paper	30	—	—	0	29	—
4225 pulp & waste paper	30	—	—	0	29	—
Subtotal soil, sand, gravel, rock and stone	2,102	—	—	1,196	—	906
4331 sand & gravel	2,102	—	—	1,196	—	906
Subtotal sulphur, clay and salt	3	—	—	3	—	—
4782 clay & refrac. mat.	3	—	—	3	—	—
Subtotal other non-metal. min.	0	—	—	0	—	—
4900 non-metal. min. nec	0	—	—	0	—	—
Total primary manufactured goods	699	21	16	632	25	4
Subtotal paper products	620	—	—	611	4	4
5120 paper & paperboard	575	—	—	567	4	4
5190 paper products nec	45	—	—	45	0	—
Subtotal lime, cement and glass	26	21	4	0	0	—
5220 cement & concrete	25	21	4	—	—	—
5240 glass & glass prod.	0	—	0	—	—	—
5290 misc. mineral prod.	0	—	—	0	0	—
Subtotal primary iron and steel products	10	—	8	—	2	—
5330 i&s plates & sheets	0	—	0	—	—	—
5360 i&s bars & shapes	8	—	8	—	—	—
5370 i&s pipe & tube	2	—	—	—	2	—
Subtotal primary non-ferrous metal products	41	—	2	21	18	—
5422 aluminum	0	—	—	—	0	—
5480 fab. metal products	41	—	2	21	18	—
Subtotal primary wood products	3	—	3	—	—	—
5540 primary wood prod.	3	—	3	—	—	—
Total food and farm products	3,507	—	—	3,495	10	1
Subtotal grain	3,419	—	—	3,407	10	1
6241 wheat	3,081	—	—	3,072	10	—
6344 corn	2	—	—	1	0	—
6443 barley & rye	336	—	—	334	—	1
Subtotal vegetable products	39	—	—	39	0	—
6654 vegetables & prod.	39	—	—	39	0	—
Subtotal processed grain and animal feed	39	—	—	39	0	—
6747 grain mill products	7	—	—	7	0	—
6781 hay & fodder	32	—	—	32	—	—
Subtotal other agricultural products	10	—	—	10	—	—
6839 animals & prod. nec	10	—	—	10	—	—
Total all manufactured equipment, machinery and products	330	—	1	155	174	0
7110 machinery (not elec)	0	—	0	—	—	—
7120 electrical machinery	0	—	—	0	—	—
7210 vehicles & parts	0	—	0	—	—	—
7230 ships & boats	0	—	0	0	—	—
7400 manufac. wood prod.	0	—	0	—	—	—
7600 rubber & plastic pr.	0	—	—	0	0	—
7800 empty containers	329	—	—	155	174	0
7900 manufac. prod. nec	0	—	0	0	—	—

PORT OF PORTLAND, OR
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Receipts	Internal	
		Receipts	Shipments		Shipments	Intraport
Total waste and scrap nec	0	---	---	0	---	---
8900 waste and scrap nec	0	---	---	0	---	---

*Includes 6 (x1000) tons of foreign inbound in-transits; Includes 284 (x1000) tons of foreign outbound in-transits.

WILLAMETTE RIVER ABOVE PORTLAND AND YAMHILL RIVER, OR

Section Included: Willamette River from Portland to Harrisburg, OR, a distance of 159 miles, and Yamhill River from mouth to mile 4.0. Controlling Depth: 8 feet from Portland to Oregon City; 3 feet to Corvallis; 4 feet on Yamhill River from mouth to mile 4.0. Project Depth: Willamette River, 8 feet from Portland to Oregon City; 6 feet from Oregon City to mouth of Santiam River; 5 feet from mouth of Santiam River to Albany; 2.5 feet to 3.5 feet from Albany to Corvallis; no depths prescribed from Corvallis to Harrisburg; Yamhill River, 4 feet from mouth to mile 4.0.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	3,121	1991	1,575	1994	1,481	1997	1,353
1989	1,981	1992	1,448	1995	1,486		
1990	2,224	1993	1,375	1996	1,360		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Internal			
		Inbound Upbound	Outbound Downbnd	Intra	
				Upbound	Downbnd
Total, all commodities	1,353	4	1,032	209	108
Total crude materials, inedible except fuels	1,353	4	1,032	209	108
Subtotal forest products, wood and chips	128	---	128	---	---
4150 fuel wood	14	---	14	---	---
4161 wood chips	114	---	114	---	---
4170 wood in the rough	0	---	0	---	---
Subtotal soil, sand, gravel, rock and stone	1,225	4	904	209	108
4331 sand & gravel	1,225	4	904	209	108
Ton-miles (x1000)	3,461	12	766	1,250	1,434

Tons All Traffic (x1000) 1,353
Ton-miles All Traffic (x1000) 3,461

COOS BAY, OR

Section Included: From sea to Millington, a distance of 17 miles. (Same section and statistics apply to Port of Coos Bay). Controlling Depth: 39 feet in entrance channel: 30 feet in inner channel to mile 15; 20 feet in Isthmus Slough to Millington. Project Depth: 45/35 feet on bar and 35 feet from entrance to mile 15; turning basins of same depth opposite Coalbank Slough and at the city of North Bend: Anchorage basins 27 feet at mile 3.5 and near mile 7; a channel 22 feet deep from Smith's Mill (mile 15) to Millington; mooring basin for small boats at Charleston, with a connecting channel 16 feet deep to deep water in Coos Bay.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	7,830	1991	5,523	1994	3,744	1997	3,164
1989	6,986	1992	4,458	1995	3,628		
1990	6,069	1993	5,413	1996	3,322		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Domestic				
		Imports	Exports*	Total	Coastwise		Internal	
					Receipts	Shipments	Receipts	Intraport
Total, all commodities	3,164	82	2,699	383	258	56	11	59
Total petroleum and petroleum products	172	---	7	165	131	3	---	31
Subtotal petroleum products	172	---	7	165	131	3	---	31
2330 distillate fuel oil	83	---	---	83	83	---	---	---
2340 residual fuel oil	82	---	---	82	47	3	---	31
2540 petroleum coke	7	---	7	---	---	---	---	---

COOS BAY, OR
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Domestic				
		Imports	Exports*	Total	Coastwise		Internal	
					Receipts	Shipments	Receipts	Intraport
Total chemicals and related products	0	0	---	0	---	0	---	---
Subtotal other chemicals and related products	0	0	---	0	---	0	---	---
3286 plastics	0	---	---	0	---	0	---	---
3292 starches, gluten, glue	0	0	---	---	---	---	---	---
Total crude materials, inedible except fuels	2,934	82	2,651	201	127	46	---	27
Subtotal forest products, wood and chips	2,851	34	2,616	201	127	46	---	27
4161 wood chips	2,286	---	2,286	---	---	---	---	---
4170 wood in the rough	352	13	184	155	127	---	---	27
4189 lumber	213	21	146	46	---	46	---	---
Subtotal pulp and waste paper	28	---	28	---	---	---	---	---
4225 pulp & waste paper	28	---	28	---	---	---	---	---
Subtotal non-ferrous ores and scrap	55	48	6	---	---	---	---	---
4630 copper ore	6	---	6	---	---	---	---	---
4690 non-ferrous ores nec	48	48	---	---	---	---	---	---
Total primary manufactured goods	29	---	24	6	---	6	---	---
Subtotal paper products	20	---	20	---	---	---	---	---
5120 paper & paperboard	20	---	20	---	---	---	---	---
Subtotal lime, cement and glass	0	---	---	0	---	0	---	---
5240 glass & glass prod.	0	---	---	0	---	0	---	---
Subtotal primary iron and steel products	0	---	0	---	---	---	---	---
5330 i&s plates & sheets	0	---	0	---	---	---	---	---
Subtotal primary non-ferrous metal products	1	---	---	1	---	1	---	---
5480 fab. metal products	1	---	---	1	---	1	---	---
Subtotal primary wood products	9	---	3	5	---	5	---	---
5540 primary wood prod.	9	---	3	5	---	5	---	---
Total food and farm products	11	---	0	11	---	---	11	---
Subtotal fish	11	---	0	11	---	---	11	---
6134 fish (not shellfish)	8	---	0	7	---	---	7	---
6136 shellfish	3	---	---	3	---	---	3	---
Total all manufactured equipment, machinery and products	2	0	2	0	---	0	---	---
7110 machinery (not elec)	0	0	0	---	---	---	---	---
7120 electrical machinery	0	---	0	---	---	---	---	---
7210 vehicles & parts	0	---	0	---	---	---	---	---
7230 ships & boats	0	---	0	0	---	0	---	---
7400 manufac. wood prod.	2	---	2	---	---	---	---	---
7500 textile products	0	---	0	---	---	---	---	---
7900 manufac. prod. nec	0	---	0	---	---	---	---	---
Total unknown or not elsewhere classified	15	---	15	---	---	---	---	---
9900 unknown or nec	15	---	15	---	---	---	---	---

*Includes 1 (x1000) tons of foreign outbound in-transits.

COLUMBIA RIVER SYSTEM

Section Included: Main channels and all navigable tributaries of the Columbia, Willamette and Snake Rivers.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	0	1991	52,376	1994	52,607	1997	54,257
1989	0	1992	53,427	1995	60,092		
1990	53,229	1993	53,558	1996	54,023		

*Not compiled prior to 1990.

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports*
Total, all commodities	33,608	3,988	28,709	696	216
Total coal	21	21	0	---	---
1100 coal lignite	21	21	0	---	---

COLUMBIA RIVER SYSTEM
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports*
1200 coal coke	0	—	0	—	—
Total petroleum and petroleum products	1,284	521	540	91	131
Subtotal crude petroleum	343	343	—	—	—
2100 crude petroleum	343	343	—	—	—
Subtotal petroleum products	941	178	540	91	131
2211 gasoline	138	64	—	67	6
2221 kerosene	6	—	—	—	6
2330 distillate fuel oil	28	9	0	19	—
2340 residual fuel oil	17	—	0	5	12
2350 lube oil & greases	4	0	4	—	—
2410 petro. jelly & waxes	1	0	1	—	—
2429 naphtha & solvents	0	—	0	—	—
2430 asphalt, tar & pitch	105	105	0	—	—
2540 petroleum coke	643	—	535	—	107
2640 liquid natural gas	0	—	0	—	—
Total chemicals and related products	4,141	186	3,863	10	82
Subtotal fertilizers	714	76	637	1	—
3110 nitrogenous fert.	277	67	209	1	—
3130 potassic fert.	427	—	427	—	—
3190 fert. & mixes nec	10	9	1	—	—
Subtotal other chemicals and related products	3,427	111	3,226	9	82
3211 acyclic hydrocarbons	1	—	1	—	—
3212 benzene & toluene	6	6	—	—	—
3219 other hydrocarbons	1	0	1	—	—
3220 alcohols	85	80	6	—	—
3230 carboxylic acids	4	0	4	—	—
3240 nitrogen func. comp.	5	0	5	—	0
3250 organo-inorganic comp.	2	0	2	—	—
3260 organic comp. nec	4	1	4	—	—
3272 sulphuric acid	0	0	0	—	—
3273 ammonia	0	0	0	—	—
3274 sodium hydroxide	127	—	93	—	35
3275 inorg. elem., oxides, & halogen salts	13	5	8	—	—
3276 metallic salts	3,069	4	3,018	—	47
3279 inorganic chem. nec	2	2	0	—	—
3281 radioactive material	0	0	0	—	—
3282 pigments & paints	3	0	3	—	—
3283 coloring mat. nec	1	0	1	—	—
3284 medicines	1	0	0	—	—
3285 perfumes & cleansers	8	3	5	—	—
3286 plastics	62	7	55	—	0
3291 pesticides	1	0	1	—	—
3292 starches, gluten, glue	7	0	6	—	—
3293 explosives	0	0	0	—	—
3297 chemical additives	3	0	3	—	—
3298 wood & resin chem.	15	0	7	9	—
3299 chem. products nec	6	1	5	—	—
Total crude materials, inedible except fuels	5,421	1,537	3,295	588	2
Subtotal forest products, wood and chips	2,552	114	2,381	55	2
4150 fuel wood	27	—	2	25	—
4161 wood chips	35	—	4	30	—
4170 wood in the rough	2,056	37	2,019	—	—
4189 lumber	434	77	356	—	2
4190 forest products nec	0	0	0	—	—
Subtotal pulp and waste paper	278	41	237	—	—
4225 pulp & waste paper	278	41	237	—	—
Subtotal soil, sand, gravel, rock and stone	542	0	10	532	—
4310 building stone	0	0	0	—	—
4322 limestone	533	—	1	532	—
4323 gypsum	1	—	1	—	—
4327 phosphate rock	1	—	1	—	—
4331 sand & gravel	7	—	7	—	—
Subtotal iron ore and scrap	128	—	128	—	—
4420 iron & steel scrap	128	—	128	—	—
Subtotal marine shells	0	0	—	—	—
4515 marine shells	0	0	—	—	—
Subtotal non-ferrous ores and scrap	1,208	994	214	—	—
4630 copper ore	134	—	134	—	—
4650 aluminum ore	994	993	1	—	—
4680 non-ferrous scrap	40	0	39	—	—
4690 non-ferrous ores nec	40	—	40	—	—
Subtotal sulphur, clay and salt	302	13	288	—	—
4741 sulphur, (dry)	42	—	42	—	—
4782 clay & refrac. mat.	259	13	246	—	—
Subtotal slag	1	—	1	—	—
4860 slag	1	—	1	—	—
Subtotal other non-metal. min.	411	375	36	—	—
4900 non-metal. min. nec	411	375	36	—	—
Total primary manufactured goods	2,154	1,143	1,011	0	0
Subtotal paper products	775	6	769	0	—
5110 newsprint	424	0	423	0	—
5120 paper & paperboard	339	5	334	—	—
5190 paper products nec	13	1	12	—	—
Subtotal lime, cement and glass	571	504	67	0	—
5220 cement & concrete	487	483	4	—	—
5240 glass & glass prod.	10	1	8	—	—
5290 misc. mineral prod.	74	19	55	0	—
Subtotal primary iron and steel products	582	569	13	—	0
5312 pig iron	119	118	1	—	—
5315 ferro alloys	59	51	9	—	—

COLUMBIA RIVER SYSTEM
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports*
5320 i&s primary forms	24	23	0	—	—
5330 i&s plates & sheets	167	165	2	—	—
5360 i&s bars & shapes	23	23	0	—	—
5370 i&s pipe & tube	57	57	1	—	0
5390 primary i&s nec	133	132	0	—	—
Subtotal primary non-ferrous metal products	61	30	32	—	—
5421 copper	3	0	2	—	—
5422 aluminum	20	0	19	—	—
5429 smelted prod. nec	4	2	2	—	—
5480 fab. metal products	35	27	8	—	—
Subtotal primary wood products	165	35	131	—	0
5540 primary wood prod.	165	35	131	—	0
Total food and farm products	19,883	46	19,831	6	0
Subtotal fish	4	0	3	0	—
6134 fish (not shellfish)	4	0	3	0	—
6136 shellfish	0	—	0	—	—
Subtotal grain	18,068	2	18,060	6	—
6241 wheat	12,111	—	12,105	6	—
6344 corn	4,830	—	4,830	—	—
6442 rice	2	2	1	—	—
6443 barley & rye	924	—	924	—	—
6445 oats	0	—	0	—	—
6447 sorghum grains	201	—	201	—	—
Subtotal oilseeds	266	—	266	—	—
6521 peanuts	0	—	0	—	—
6522 soybeans	262	—	262	—	—
6590 oilseeds nec	3	—	3	—	—
Subtotal vegetable products	288	7	282	—	0
6653 vegetable oils	8	1	7	—	—
6654 vegetables & prod.	281	6	275	—	0
Subtotal processed grain and animal feed	1,071	2	1,070	—	0
6746 wheat flour	1	0	1	—	—
6747 grain mill products	69	1	67	—	0
6781 hay & fodder	364	—	364	—	—
6782 animal feed, prep.	637	0	637	—	—
Subtotal other agricultural products	186	35	150	0	0
6811 meat, fresh, frozen	14	—	14	—	—
6817 meat, prepared	11	—	11	—	—
6822 dairy products	9	0	9	—	0
6835 fish, prepared	4	0	3	—	—
6838 tallow, animal oils	0	—	0	—	—
6839 animals & prod. nec	33	0	33	—	—
6856 bananas & plantains	0	0	—	—	—
6857 fruit & nuts nec	10	1	10	—	—
6858 fruit juices	28	11	17	—	—
6861 sugar	0	—	0	—	—
6865 molasses	0	—	0	—	—
6871 coffee	1	0	0	—	—
6872 cocoa beans	0	0	0	—	—
6885 alcoholic beverages	25	19	6	0	—
6888 water & ice	1	1	0	—	—
6889 food products nec	21	2	19	—	—
6891 tobacco & products	1	—	1	—	—
6893 cotton	10	—	10	—	—
6899 farm products nec	19	1	18	—	—
Total all manufactured equipment, machinery and products	695	532	162	0	1
7110 machinery (not elec)	52	16	35	—	1
7120 electrical machinery	43	19	23	—	—
7210 vehicles & parts	482	436	46	—	—
7220 aircraft & parts	0	0	0	—	—
7230 ships & boats	1	0	0	—	0
7300 ordnance & access.	0	—	0	—	—
7400 manufac. wood prod.	14	2	12	—	—
7500 textile products	15	8	7	—	—
7600 rubber & plastic pr.	15	8	7	—	0
7900 manufac. prod. nec	74	42	32	0	0
Total unknown or not elsewhere classified	9	2	7	1	—
9900 unknown or nec	9	2	7	1	—
Ton-miles (x1000)	1,492,391	132,652	1,341,262	9,011	9,466
Foreign & Canadian					

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Outbound	Intra	Downbnd
			Upbound	Upbound	Downbnd	
Total, all commodities	20,649	4,142	629	72	10,237	5,569
Total petroleum and petroleum products	5,999	2,860	196	—	2,755	188
Subtotal crude petroleum	40	40	—	—	—	—
2100 crude petroleum	40	40	—	—	—	—
Subtotal petroleum products	5,959	2,820	196	—	2,755	188
2211 gasoline	2,861	1,651	106	—	1,104	—
2330 distillate fuel oil	1,526	482	28	—	1,012	4
2340 residual fuel oil	1,344	493	53	—	617	181
2350 lube oil & greases	82	58	—	—	20	4

COLUMBIA RIVER SYSTEM
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Outbound Upbound	Intra Upbound	Downbnd
2429 naphtha & solvents	9	—	9	—	—	—
2430 asphalt, tar & pitch	135	135	—	—	—	—
2540 petroleum coke	2	—	—	—	2	—
2990 petro. products nec	0	0	—	—	—	—
Total chemicals and related products	742	340	185	—	189	27
Subtotal fertilizers	245	87	74	—	57	27
3110 nitrogenous fert.	208	87	74	—	29	18
3190 fert. & mixes nec	37	—	—	—	28	9
Subtotal other chemicals and related products	497	254	111	—	132	—
3212 benzene & toluene	89	89	—	—	—	—
3220 alcohols	99	61	38	—	—	—
3273 ammonia	204	103	—	—	101	—
3274 sodium hydroxide	98	—	68	—	31	—
3286 plastics	1	—	1	—	0	—
3298 wood & resin chem.	4	—	4	—	—	—
Total crude materials, inedible except fuels	6,431	919	206	—	2,491	2,816
Subtotal forest products, wood and chips	2,607	655	206	—	456	1,290
4150 fuel wood	14	—	—	—	9	5
4161 wood chips	1,897	421	0	—	434	1,041
4170 wood in the rough	493	234	3	—	13	244
4189 lumber	203	—	203	—	0	0
Subtotal pulp and waste paper	60	—	—	—	28	32
4225 pulp & waste paper	60	—	—	—	28	32
Subtotal soil, sand, gravel, rock and stone	3,497	—	—	—	2,004	1,493
4331 sand & gravel	3,497	—	—	—	2,004	1,493
Subtotal sulphur, clay and salt	3	—	—	—	3	—
4782 clay & refrac. mat.	3	—	—	—	3	—
Subtotal other non-metal. min.	264	264	—	—	0	—
4900 non-metal. min. nec	264	264	—	—	0	—
Total primary manufactured goods	730	22	36	—	666	7
Subtotal paper products	648	—	19	—	624	5
5120 paper & paperboard	584	—	—	—	579	5
5190 paper products nec	64	—	19	—	45	—
Subtotal lime, cement and glass	26	21	4	—	0	—
5220 cement & concrete	25	21	4	—	—	—
5240 glass & glass prod.	0	—	0	—	—	—
5290 misc. mineral prod.	0	—	—	—	0	—
Subtotal primary iron and steel products	10	—	8	—	2	—
5330 i&s plates & sheets	0	—	0	—	—	—
5360 i&s bars & shapes	8	—	8	—	—	—
5370 i&s pipe & tube	2	—	—	—	2	—
Subtotal primary non-ferrous metal products	43	1	2	—	39	2
5422 aluminum	0	—	—	—	0	—
5480 fab. metal products	43	1	2	—	39	2
Subtotal primary wood products	3	—	3	—	—	—
5540 primary wood prod.	3	—	3	—	—	—
Total food and farm products	6,101	—	—	72	3,585	2,443
Subtotal fish	136	—	—	72	64	—
6134 fish (not shellfish)	121	—	—	61	59	—
6136 shellfish	15	—	—	11	4	—
Subtotal grain	5,877	—	—	—	3,434	2,443
6241 wheat	5,425	—	—	—	3,096	2,328
6344 corn	2	—	—	—	2	—
6443 barley & rye	451	—	—	—	336	115
Subtotal vegetable products	39	—	—	—	39	—
6654 vegetables & prod.	39	—	—	—	39	—
Subtotal processed grain and animal feed	39	—	—	—	39	—
6747 grain mill products	7	—	—	—	7	—
6781 hay & fodder	32	—	—	—	32	—
Subtotal other agricultural products	10	—	—	—	10	—
6839 animals & prod. nec	10	—	—	—	10	—
6899 farm products nec	0	—	—	—	0	—
Total all manufactured equipment, machinery and products	415	1	6	—	333	76
7110 machinery (not elec)	1	1	0	—	—	—
7120 electrical machinery	0	—	—	—	0	—
7210 vehicles & parts	2	0	0	—	1	1
7230 ships & boats	0	—	0	—	0	—
7400 manufac. wood prod.	0	—	0	—	—	—
7600 rubber & plastic pr.	0	—	—	—	0	—
7800 empty containers	411	—	5	—	332	75
7900 manufac. prod. nec	0	—	0	—	0	—
Total waste and scrap nec	230	—	—	—	218	12
8900 waste and scrap nec	230	—	—	—	218	12
Ton-miles (x1000)	863,505	76,610	27,159	72	436,813	322,852
Domestic						
Tons All Traffic (x1000)	54,257					
Ton-miles All Traffic (x1000)	2,355,896					

*Includes 40 (x1000) tons of foreign inbound in-transits; Includes 380 (x1000) tons of foreign outbound in-transits;
Includes 0 (x1000) tons of Canadian outbound in-transits.

Other Harbors and Waterways 1997

Harbor or Waterway Project	Commodity	Thousand Short Tons
ALSEA BAY AND RIVER, OR	No Commerce Reported	
CHETCO RIVER, OR	6134 fish (not shellfish)	2
	6136 shellfish	3
	Total Tons(x1000)	5
	Total Ton-miles(x1000)	5
CHINOOK CHANNEL, WA	6134 fish (not shellfish)	0
	6136 shellfish	1
	Total Tons(x1000)	1
	Total Ton-miles(x1000)	1
CLATSKANIE RIVER, OR	No Commerce Reported	
COLUMBIA RIVER AT BAKERS BAY, WA	6134 fish (not shellfish)	4
	6136 shellfish	1
	Total Tons(x1000)	5
	Total Ton-miles(x1000)	5
COLUMBIA SLOUGH, OR	No Commerce Reported	
COOS AND MILLICOMA RIVERS, OR	No Commerce Reported	
COQUILLE RIVER, OR	6134 fish (not shellfish)	0
	6136 shellfish	0
	Total Tons(x1000)	0
	Total Ton-miles(x1000)	0
COWLITZ RIVER, WA	6134 fish (not shellfish)	0
	Total Tons(x1000)	0
	Total Ton-miles(x1000)	0
DEEP RIVER, WA	No Commerce Reported	
DEPOE BAY, OR	6134 fish (not shellfish)	0
	6136 shellfish	0
	Total Tons(x1000)	0
	Total Ton-miles(x1000)	0
ELOKOMIN SLOUGH, WA	No Commerce Reported	
GRAYS RIVER, WA	No Commerce Reported	
LAKE RIVER, WA	3190 fert. & mixes nec	4
	6899 farm products nec	0
	7210 vehicles & parts	2
	Total Tons(x1000)	5
	Total Ton-miles(x1000)	5
LEWIS RIVER, WA	No Commerce Reported	
PORT OF ST. HELENS, OR	No Commerce Reported	
PORT ORFORD, OR	6134 fish (not shellfish)	1
	6136 shellfish	0
	Total Tons(x1000)	1
ROGUE RIVER, OR	6134 fish (not shellfish)	0
	6136 shellfish	0
	7900 manufac. prod. nec	0
	9900 unknown or nec	0
	Total Tons(x1000)	0
	Total Ton-miles(x1000)	1

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons
SIUSLAW RIVER, OR	6134 fish (not shellfish)	0
	6136 shellfish	0
	Total Tons(x1000)	0
	Total Ton-miles(x1000)	2
SKAMOKAWA (STEAMBOAT) SLOUGH, WA	No Commerce Reported	
SKAMOKAWA CREEK, WA	No Commerce Reported	
SKIPANON CHANNEL, OR	4161 wood chips	30
	4170 wood in the rough	69
	Total Tons(x1000)	99
	Total Ton-miles(x1000)	128
SMITH RIVER, OR	No Commerce Reported	
TILLAMOOK BAY AND BAR, OR	6134 fish (not shellfish)	0
	6136 shellfish	1
	Total Tons(x1000)	1
	Total Ton-miles(x1000)	
UMPQUA RIVER, OR	4161 wood chips	11
	4331 sand & gravel	202
	6134 fish (not shellfish)	0
	6136 shellfish	0
	Total Tons(x1000)	214
	Total Ton-miles(x1000)	2,338
WESTPORT SLOUGH, OR	2340 residual fuel oil	0
	2350 lube oil & greases	0
	Total Tons(x1000)	1
	Total Ton-miles(x1000)	1
YAQUINA BAY AND HARBOR, OR	2330 distillate fuel oil	8
	4170 wood in the rough	16
	5429 smelted prod. nec	0
	6134 fish (not shellfish)	50
	6136 shellfish	3
	7110 machinery (not elec)	0
	7900 manufac. prod. nec	0
	Total Tons(x1000)	79
Total Ton-miles(x1000)	158	
YAQUINA RIVER, OR	No Commerce Reported	
YOUNGS BAY AND YOUNGS RIVER, OR	No Commerce Reported	

GRAYS HARBOR AND CHEHALIS RIVER, WA

Section Included: Grays Harbor bar channel and Chehalis River to Cosmopolis and extending to Simpson Avenue bridge on the Hoquiam River and the Schafer Bros. wharf at Montesano on the Chehalis River. Controlling Depth: Bar channel, 37.1 feet; 25.5 feet from deep water in Lower Harbor to Upper Cross-Over; 27.0 feet from Upper Cross-Over to Cow Point; 25.6 feet from Cow Point to Cosmopolis; turning basin just downstream of Cow Point, 29.0 feet; turning basin near Elliott Slough, 25.5 feet. 5.5 feet from Cosmopolis to Montesano; Bay City channel, 9.1 feet; Westhaven Channel, 13.9 feet north entrance, 13.0 feet south entrance. Project Depth: 30 feet extending through the bar channel to Cosmopolis; Bay 16 feet to Montesano; Bay City channel, 14 feet; Westhaven channel, 16 feet. All depths refer to mlw.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	6,488	1991	4,488	1994	1,654	1997	1,486
1989	5,351	1992	6,953	1995	1,566		
1990	12,825	1993	4,383	1996	1,990		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign	Domestic
		Exports*	Coastwise Shipments
Total, all commodities	1,486	1,190	296
Total chemicals and related products	2	—	2
Subtotal other chemicals and related products	2	—	2
3298 wood & resin chem.	2	—	2
Total crude materials, inedible except fuels	1,475	1,181	293
Subtotal forest products, wood and chips	1,412	1,119	293
4161 wood chips	209	—	209
4170 wood in the rough	1,042	1,042	—
4189 lumber	161	76	85
Subtotal pulp and waste paper	63	63	—
4225 pulp & waste paper	63	63	—
Total primary manufactured goods	2	2	—
Subtotal paper products	0	0	—
5120 paper & paperboard	0	0	—
Subtotal lime, cement and glass	0	0	—
5240 glass & glass prod.	0	0	—
Subtotal primary non-ferrous metal products	2	2	—
5422 aluminum	2	2	—
Subtotal primary wood products	0	0	—
5540 primary wood prod.	0	0	—
Total food and farm products	6	6	—
Subtotal fish	6	6	—
6134 fish (not shellfish)	6	6	—
Total all manufactured equipment, machinery and products	0	0	—
7600 rubber & plastic pr.	0	0	—
7900 manufac. prod. nec	0	0	—
Total unknown or not elsewhere classified	0	0	—
9900 unknown or nec	0	0	—

*Includes 0 (x1000) tons of foreign outbound in-transits.

PORT ANGELES HARBOR, WA

Section Included: Entire harbor from Rayonier, Inc. Wharf westward. Controlling Depth: Unlimited except for 25 feet near Rayonier, Inc. Wharf. All depths refer to mlw.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	3,089	1991	2,680	1994	1,695	1997	2,377
1989	2,837	1992	2,336	1995	1,911		
1990	3,072	1993	1,987	1996	2,780		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign	Canadian	
		Exports	Imports	Exports*
Total, all commodities	654	432	142	79
Total petroleum and petroleum products	141	22	46	74
Subtotal petroleum products	141	22	46	74
2211 gasoline	4	—	—	4
2221 kerosene	6	—	—	6
2330 distillate fuel oil	29	—	29	—
2340 residual fuel oil	68	—	17	51
2350 lube oil & greases	1	—	—	1
2429 naphtha & solvents	11	—	—	11
2640 liquid natural gas	22	22	—	—

PORT ANGELES HARBOR, WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign	Canadian	
		Exports	Imports	Exports*
Total chemicals and related products	35	35	—	—
Subtotal other chemicals and related products	35	35	—	—
3211 acyclic hydrocarbons	35	35	—	—
Total crude materials, inedible except fuels	454	360	88	5
Subtotal forest products, wood and chips	367	359	8	—
4150 fuel wood	0	—	0	—
4161 wood chips	180	174	7	—
4170 wood in the rough	185	185	—	—
4189 lumber	1	1	1	—
Subtotal pulp and waste paper	10	1	8	1
4225 pulp & waste paper	10	1	8	1
Subtotal soil, sand, gravel, rock and stone	77	—	73	4
4310 building stone	2	—	2	—
4331 sand & gravel	76	—	71	4
Subtotal non-ferrous ores and scrap	0	—	0	—
4680 non-ferrous scrap	0	—	0	—
Total primary manufactured goods	7	0	7	—
Subtotal paper products	5	0	5	—
5110 newsprint	2	—	2	—
5120 paper & paperboard	3	0	3	—
Subtotal lime, cement and glass	0	0	0	—
5290 misc. mineral prod.	0	0	0	—
Subtotal primary non-ferrous metal products	0	0	—	—
5480 fab. metal products	0	0	—	—
Subtotal primary wood products	1	0	1	—
5540 primary wood prod.	1	0	1	—
Total food and farm products	16	15	1	—
Subtotal fish	15	14	1	—
6134 fish (not shellfish)	15	14	1	—
6136 shellfish	0	—	0	—
Subtotal grain	0	0	—	—
6344 corn	0	0	—	—
6443 barley & rye	0	0	—	—
Subtotal vegetable products	0	0	—	—
6654 vegetables & prod.	0	0	—	—
Subtotal other agricultural products	0	0	0	—
6899 farm products nec	0	0	0	—
Total all manufactured equipment, machinery and products	0	0	0	—
7110 machinery (not elec)	0	0	0	—
7220 aircraft & parts	0	—	0	—
7230 ships & boats	0	—	0	—
7500 textile products	0	0	—	—
7600 rubber & plastic pr.	0	0	—	—
7900 manufac. prod. nec	0	—	0	—
Total unknown or not elsewhere classified	1	—	0	1
9900 unknown or nec	1	—	0	1

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	1,724	43	304	543	486	347
Total petroleum and petroleum products	886	21	28	410	80	347
Subtotal petroleum products	886	21	28	410	80	347
2330 distillate fuel oil	57	9	27	20	1	—
2340 residual fuel oil	829	12	2	389	79	347
2350 lube oil & greases	0	—	—	0	—	0
Total chemicals and related products	5	—	1	4	—	—
Subtotal fertilizers	1	—	1	—	—	—
3110 nitrogenous fert.	1	—	1	—	—	—
Subtotal other chemicals and related products	4	—	—	4	—	—
3274 sodium hydroxide	3	—	—	3	—	—
3275 inorg. elem., oxides, & halogen salts	1	—	—	1	—	—
Total crude materials, inedible except fuels	807	22	275	127	383	—
Subtotal forest products, wood and chips	786	22	275	127	362	—
4161 wood chips	30	22	3	1	3	—
4170 wood in the rough	757	—	272	126	358	—
Subtotal pulp and waste paper	21	—	—	0	21	—
4225 pulp & waste paper	21	—	—	0	21	—
Total primary manufactured goods	16	—	—	2	14	—
Subtotal paper products	16	—	—	2	14	—
5110 newsprint	16	—	—	2	14	—
Total food and farm products	0	—	—	0	—	—
Subtotal fish	0	—	—	0	—	—
6134 fish (not shellfish)	0	—	—	0	—	—
6136 shellfish	0	—	—	0	—	—

PORT ANGELES HARBOR, WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	
Total all manufactured equipment, machinery and products	9	---	---	---	9	---
7900 manufac. prod. nec	9	---	---	---	9	---

*Includes 11 (x1000) tons of Canadian outbound in-transits.

PORT TOWNSEND HARBOR, WA

Section Included: Point Wilson on the north to Irondale on the south. Controlling Depth: Channel from deep water to boat basin, 10.7 feet; outer portion of entrance channel in boat basin, 12.9 feet; inner portion of entrance channel in boat basin, 12.2 feet. Project Depth: 10 and 12 feet mllw in the inner and outer sections of the mooring basin, respectively.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	464	1991	546	1994	402	1997	412
1989	536	1992	325	1995	362		
1990	427	1993	201	1996	464		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Domestic		
		Coastwise	Internal	
		Receipts	Receipts	Shipments
Total, all commodities	412	17	348	47
Total petroleum and petroleum products	29	17	13	---
Subtotal petroleum products	29	17	13	---
2330 distillate fuel oil	8	3	5	---
2340 residual fuel oil	21	14	7	---
2350 lube oil & greases	0	---	0	---
Total crude materials, inedible except fuels	380	---	334	46
Subtotal forest products, wood and chips	336	---	334	3
4150 fuel wood	6	---	6	---
4161 wood chips	326	---	325	1
4170 wood in the rough	5	---	3	2
4189 lumber	0	---	---	0
Subtotal pulp and waste paper	43	---	---	43
4225 pulp & waste paper	43	---	---	43
Subtotal sulphur, clay and salt	0	---	0	---
4782 clay & refrac. mat.	0	---	0	---
Total primary manufactured goods	1	---	0	1
Subtotal paper products	1	---	---	1
5110 newsprint	1	---	---	1
Subtotal lime, cement and glass	0	---	0	0
5290 misc. mineral prod.	0	---	0	0
Total food and farm products	1	---	1	---
Subtotal fish	1	---	1	---
6134 fish (not shellfish)	0	---	0	---
6136 shellfish	1	---	1	---
Total all manufactured equipment, machinery and products	0	---	0	0
7400 manufac. wood prod.	0	---	0	0

HAMMERSLEY INLET, WA

Section Included: Inlet connecting Puget Sound with Shelton Harbor, a distance of about 7 miles. Controlling Depth: 8.8 feet. Project Depth: 13 feet. All depths refer to mlw.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	531	1991	343	1994	500	1997	633
1989	420	1992	312	1995	872		
1990	325	1993	384	1996	1,037		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Internal	
		Inbound Upbound	Outbound Downbnd
Total, all commodities	633	177	456
Total crude materials, inedible except fuels	631	176	456
Subtotal forest products, wood and chips	631	176	456
4161 wood chips	191	—	191
4170 wood in the rough	441	176	265
Total food and farm products	1	1	—
Subtotal fish	1	1	—
6134 fish (not shellfish)	1	1	—
6136 shellfish	1	1	—
Ton-miles (x1000)	6,325	1,769	4,557
Tons All Traffic (x1000)	633		
Ton-miles All Traffic (x1000)	6,325		

OLYMPIA HARBOR, WA

Section Included: That portion of Budd Inlet south and west of Priest Point and generally within the city limits of Olympia. Controlling Depth: 29.4 feet in outer channel, 29.4 feet in entrance channel and 27.7 feet in turning basin. Project Depth: 30 feet. All depths refer to mlw.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	1,676	1991	945	1994	1,514	1997	1,997
1989	1,196	1992	714	1995	2,166		
1990	1,265	1993	924	1996	1,893		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic				
		Imports*	Exports*	Exports*	Total	Coastwise Receipts	Internal Receipts	Internal Shipments	Intraport
Total, all commodities	1,997	5	122	4	1,865	10	452	404	998
Total petroleum and petroleum products	4	—	1	—	3	—	3	—	—
Subtotal petroleum products	4	—	1	—	3	—	3	—	—
2340 residual fuel oil	3	—	0	—	3	—	3	—	—
2350 lube oil & greases	0	—	0	—	—	—	—	—	—
2429 naphtha & solvents	0	—	0	—	—	—	—	—	—
Total chemicals and related products	1	—	1	—	—	—	—	—	—
Subtotal fertilizers	0	—	0	—	—	—	—	—	—
3190 fert. & mixes nec	0	—	0	—	—	—	—	—	—
Subtotal other chemicals and related products	1	—	1	—	—	—	—	—	—
3240 nitrogen func. comp.	0	—	0	—	—	—	—	—	—
3271 sulphur (liquid)	0	—	0	—	—	—	—	—	—
3272 sulphuric acid	0	—	0	—	—	—	—	—	—
3274 sodium hydroxide	0	—	0	—	—	—	—	—	—

OLYMPIA HARBOR, WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic				
		Imports*	Exports*	Exports*	Total	Coastwise	Internal		
					Receipts	Receipts	Shipments	Intraport	
3275 inorg. elem., oxides, & halogen salts	0	—	0	—	—	—	—	—	—
3276 metallic salts	0	—	0	—	—	—	—	—	—
3279 inorganic chem. nec	0	—	0	—	—	—	—	—	—
3282 pigments & paints	0	—	0	—	—	—	—	—	—
3285 perfumes & cleansers	0	—	0	—	—	—	—	—	—
3286 plastics	0	—	0	—	—	—	—	—	—
3297 chemical additives	0	—	0	—	—	—	—	—	—
3299 chem. products nec	0	—	0	—	—	—	—	—	—
Total crude materials, inedible except fuels	1,926	0	61	4	1,860	10	448	404	998
Subtotal forest products, wood and chips	1,925	0	61	4	1,860	10	448	404	998
4161 wood chips	207	—	—	4	203	—	1	202	—
4170 wood in the rough	1,717	—	60	—	1,657	10	447	202	998
4189 lumber	1	0	0	—	0	—	0	0	—
Subtotal soil, sand, gravel, rock and stone	0	—	0	—	—	—	—	—	—
4310 building stone	0	—	0	—	—	—	—	—	—
4323 gypsum	0	—	0	—	—	—	—	—	—
4331 sand & gravel	0	—	0	—	—	—	—	—	—
Subtotal non-ferrous ores and scrap	1	—	—	1	—	—	—	—	—
4690 non-ferrous ores nec	1	—	—	1	—	—	—	—	—
Subtotal other non-metal. min.	0	0	—	—	—	—	—	—	—
4900 non-metal. min. nec	0	0	—	—	—	—	—	—	—
Total primary manufactured goods	3	1	1	—	0	—	0	0	—
Subtotal paper products	0	—	0	—	—	—	—	—	—
5120 paper & paperboard	0	—	0	—	—	—	—	—	—
5190 paper products nec	0	—	0	—	—	—	—	—	—
Subtotal lime, cement and glass	0	—	0	—	0	—	0	0	—
5240 glass & glass prod.	0	—	0	—	—	—	—	—	—
5290 misc. mineral prod.	0	—	0	—	0	—	0	0	—
Subtotal primary iron and steel products	1	1	0	—	—	—	—	—	—
5320 i&s primary forms	0	—	0	—	—	—	—	—	—
5330 i&s plates & sheets	0	0	—	—	—	—	—	—	—
5360 i&s bars & shapes	1	1	—	—	—	—	—	—	—
5370 i&s pipe & tube	0	—	0	—	—	—	—	—	—
Subtotal primary non-ferrous metal products	1	1	1	—	—	—	—	—	—
5422 aluminum	0	—	0	—	—	—	—	—	—
5429 smelted prod. nec	0	—	0	—	—	—	—	—	—
5480 fab. metal products	1	1	1	—	—	—	—	—	—
Subtotal primary wood products	0	—	0	—	—	—	—	—	—
5540 primary wood prod.	0	—	0	—	—	—	—	—	—
Total food and farm products	56	2	54	—	0	—	0	—	—
Subtotal fish	2	2	0	—	0	—	0	—	—
6134 fish (not shellfish)	2	2	—	—	0	—	0	—	—
6136 shellfish	1	0	0	—	0	—	0	—	—

OLYMPIA HARBOR, WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic				
		Imports*	Exports*	Exports*	Total	Coastwise Receipts	Receipts	Internal Shipments	Intraport
Subtotal grain	8	---	8	---	---	---	---	---	---
6241 wheat	8	---	8	---	---	---	---	---	---
Subtotal vegetable products	4	---	4	---	---	---	---	---	---
6653 vegetable oils	1	---	1	---	---	---	---	---	---
6654 vegetables & prod.	2	---	2	---	---	---	---	---	---
Subtotal processed grain and animal feed	12	---	12	---	---	---	---	---	---
6746 wheat flour	11	---	11	---	---	---	---	---	---
6747 grain mill products	0	---	0	---	---	---	---	---	---
6781 hay & fodder	0	---	0	---	---	---	---	---	---
6782 animal feed, prep	0	---	0	---	---	---	---	---	---
Subtotal other agricultural products	31	0	31	---	---	---	---	---	---
6811 meat, fresh, frozen	18	---	18	---	---	---	---	---	---
6817 meat, prepared	6	---	6	---	---	---	---	---	---
6822 dairy products	1	---	1	---	---	---	---	---	---
6839 animals & prod. nec	0	---	0	---	---	---	---	---	---
6856 bananas & plantains	1	---	1	---	---	---	---	---	---
6857 fruit & nuts nec	5	---	5	---	---	---	---	---	---
6858 fruit juices	0	---	0	---	---	---	---	---	---
6885 alcoholic beverages	0	---	0	---	---	---	---	---	---
6888 water & ice	0	0	0	---	---	---	---	---	---
6889 food products nec	0	0	0	---	---	---	---	---	---
Total all manufactured equipment, machinery and products	6	2	3	---	1	---	1	0	---
7110 machinery (not elec)	5	1	2	---	1	---	1	---	---
7120 electrical machinery	0	---	0	---	---	---	---	---	---
7210 vehicles & parts	0	---	0	---	---	---	---	---	---
7220 aircraft & parts	0	0	0	---	---	---	---	---	---
7230 ships & boats	0	---	0	---	---	---	---	---	---
7400 manufac. wood prod.	0	0	0	---	0	---	0	0	---
7500 textile products	0	0	0	---	---	---	---	---	---
7600 rubber & plastic pr.	0	0	0	---	---	---	---	---	---
7900 manufac. prod. nec	0	0	0	---	---	---	---	---	---
Total unknown or not elsewhere classified	0	0	0	---	---	---	---	---	---
9900 unknown or nec	0	0	0	---	---	---	---	---	---

*Includes 1 (x1000) tons of foreign inbound in-transits; Includes 5 (x1000) tons of foreign outbound in-transits;
Includes 4 (x1000) tons of Canadian outbound in-transits.

TACOMA HARBOR, WA

Section Included: All of Commencement Bay and tributary waterways east of a line extending from Brown Point to and including the wharves of the Tacoma Smelter. Controlling Depth: City Waterway, 28.9 to 16.2 feet; Hylebos Waterway, 23.4 feet; least depth in turning basin 27.1 feet; Blair (Port Industrial Waterway), 32.8 feet. Project Depth: City Waterway, 29 to 19 feet; Hylebos Waterway, 30 feet; Blair (Port Industrial Waterway), 30 to 35 feet. All depths refer to mllw.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	20,668	1991	19,544	1994	17,616	1997	20,683
1989	22,451	1992	20,116	1995	20,879		
1990	21,433	1993	18,652	1996	21,491		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
Total, all commodities	13,080	3,688	8,648	515	229
Total coal	16	—	2	14	—
1100 coal lignite	16	—	2	14	—
Total petroleum and petroleum products	334	103	13	127	90
Subtotal crude petroleum	164	62	—	102	—
2100 crude petroleum	164	62	—	102	—
Subtotal petroleum products	170	42	13	25	90
2211 gasoline	51	41	0	5	5
2221 kerosene	7	0	—	—	7
2330 distillate fuel oil	11	—	1	11	—
2340 residual fuel oil	89	—	1	10	79
2350 lube oil & greases	7	0	7	—	—
2410 petro. jelly & waxes	0	0	0	—	—
2429 naphtha & solvents	0	0	0	—	—
2430 asphalt, tar & pitch	0	0	0	—	—
2540 petroleum coke	4	0	4	—	—
2640 liquid natural gas	0	0	0	—	—
Total chemicals and related products	507	118	325	5	58
Subtotal fertilizers	2	0	2	—	—
3110 nitrogenous fert.	1	0	1	—	—
3130 potassic fert.	0	—	0	—	—
3190 fert. & mixes nec	1	0	1	—	—
Subtotal other chemicals and related products	505	118	323	5	58
3211 acyclic hydrocarbons	0	0	0	—	—
3212 benzene & toluene	0	0	—	—	—
3219 other hydrocarbons	6	1	4	—	—
3220 alcohols	11	4	7	—	—
3230 carboxylic acids	20	6	14	—	—
3240 nitrogen func. comp.	35	7	29	—	—
3250 organo-inorganic comp.	9	5	5	—	—
3260 organic comp. nec	4	2	3	—	—
3271 sulphur (liquid)	0	—	0	—	—
3272 sulphuric acid	0	0	0	—	—
3273 ammonia	0	0	—	—	—
3274 sodium hydroxide	80	—	54	—	26
3275 inorg. elem., oxides, & halogen salts	15	7	7	—	—
3276 metallic salts	55	6	17	—	32
3279 inorganic chem. nec	2	1	0	—	—
3281 radioactive material	0	0	0	—	—
3282 pigments & paints	14	5	10	0	0
3283 coloring mat. nec	7	6	1	—	0
3284 medicines	8	2	5	—	—
3285 perfumes & cleansers	20	1	19	—	—
3286 plastics	125	49	77	—	0
3291 pesticides	2	1	1	—	—
3292 starches, gluten, glue	21	5	16	—	—
3293 explosives	3	3	0	—	—
3297 chemical additives	5	0	5	—	—
3298 wood & resin chem.	40	0	34	5	—
3299 chem. products nec	21	6	15	0	—
Total crude materials, inedible except fuels	4,184	1,327	2,416	363	78
Subtotal forest products, wood and chips	1,898	37	1,791	13	57
4110 rubber & gums	27	27	0	—	—
4150 fuel wood	3	0	3	0	—
4161 wood chips	527	—	461	9	57
4170 wood in the rough	1,148	0	1,145	3	—
4189 lumber	190	7	181	1	—
4190 forest products nec	2	2	0	—	—
Subtotal pulp and waste paper	184	0	182	2	—
4225 pulp & waste paper	184	0	182	2	—
Subtotal soil, sand, gravel, rock and stone	606	353	3	235	15
4310 building stone	1	0	0	—	—
4322 limestone	198	0	0	197	—
4323 gypsum	348	348	1	—	—
4327 phosphate rock	1	—	1	—	—
4331 sand & gravel	59	5	1	38	15
Subtotal iron ore and scrap	482	—	369	113	—
4420 iron & steel scrap	482	—	369	113	—
Subtotal marine shells	0	0	0	—	—
4515 marine shells	0	0	0	—	—
Subtotal non-ferrous ores and scrap	589	554	30	0	5
4650 aluminum ore	554	554	1	—	—
4680 non-ferrous scrap	30	0	29	0	—

TACOMA HARBOR, WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
4690 non-ferrous ores nec	5	0	0	0	5
Subtotal sulphur, clay and salt	27	1	26	---	---
4741 sulphur, (dry)	2	0	2	---	---
4782 clay & refrac. mat.	24	1	23	---	---
Subtotal slag	0	---	0	---	---
4860 slag	0	---	0	---	---
Subtotal other non-metal. min.	398	383	15	0	---
4900 non-metal. min. nec	398	383	15	0	---
Total primary manufactured goods	893	376	515	2	0
Subtotal paper products	349	17	330	2	---
5110 newsprint	38	0	38	0	---
5120 paper & paperboard	273	12	259	2	---
5190 paper products nec	38	5	33	---	---
Subtotal lime, cement and glass	120	85	35	0	0
5210 lime	2	---	2	---	---
5240 glass & glass prod.	34	20	14	0	0
5290 misc. mineral prod.	84	64	20	0	---
Subtotal primary iron and steel products	84	51	33	0	0
5312 pig iron	11	0	11	---	---
5315 ferro alloys	1	1	0	---	---
5320 i&s primary forms	3	0	3	---	---
5330 i&s plates & sheets	26	12	14	---	0
5360 i&s bars & shapes	6	6	1	---	---
5370 i&s pipe & tube	15	13	2	0	---
5390 primary i&s nec	21	18	2	---	---
Subtotal primary non-ferrous metal products	299	219	80	0	0
5421 copper	11	5	6	---	---
5422 aluminum	52	2	50	---	---
5429 smelted prod. nec	17	3	14	---	---
5480 fab. metal products	220	209	11	0	0
Subtotal primary wood products	39	3	36	0	---
5540 primary wood prod.	39	3	36	0	---
Total food and farm products	5,271	132	5,136	2	1
Subtotal fish	43	20	21	1	0
6134 fish (not shellfish)	37	16	19	1	0
6136 shellfish	6	4	2	---	0
Subtotal grain	2,935	5	2,930	---	---
6241 wheat	79	---	79	---	---
6344 corn	2,736	0	2,736	---	---
6442 rice	5	4	0	---	---
6443 barley & rye	0	---	0	---	---
6445 oats	2	0	2	---	---
6447 sorghum grains	113	---	113	---	---
Subtotal oilseeds	965	0	965	---	---
6521 peanuts	0	0	0	---	---
6522 soybeans	963	---	963	---	---
6590 oilseeds nec	1	0	1	---	---
Subtotal vegetable products	229	23	206	---	0
6653 vegetable oils	4	0	4	---	---
6654 vegetables & prod.	224	23	201	---	0
Subtotal processed grain and animal feed	444	3	441	1	---
6746 wheat flour	15	0	15	---	---
6747 grain mill products	16	1	14	---	---
6781 hay & fodder	285	0	284	1	---
6782 animal feed, prep.	129	1	128	0	---
Subtotal other agricultural products	655	82	573	0	0
6811 meat, fresh, frozen	152	0	151	---	0
6817 meat, prepared	23	0	23	---	---
6822 dairy products	20	0	20	0	---
6835 fish, prepared	6	4	2	---	---
6838 tallow, animal oils	64	0	63	---	---
6839 animals & prod. nec	39	1	37	---	---
6856 bananas & plantains	1	0	1	---	---
6857 fruit & nuts nec	165	12	153	---	0
6858 fruit juices	62	41	21	---	---
6861 sugar	0	0	0	---	---
6865 molasses	0	---	0	---	---
6871 coffee	6	6	0	---	---
6872 cocoa beans	2	2	0	---	---
6885 alcoholic beverages	18	2	16	---	0
6888 water & ice	5	0	5	---	---
6889 food products nec	70	8	62	---	0
6891 tobacco & products	15	2	12	0	---
6893 cotton	1	0	1	---	---
6894 natural fibers nec	2	2	0	---	---
6899 farm products nec	4	0	4	0	---
Total all manufactured equipment, machinery and products	1,846	1,609	236	1	1
7110 machinery (not elec)	418	339	78	0	0
7120 electrical machinery	252	234	18	0	0
7210 vehicles & parts	376	334	41	0	---
7220 aircraft & parts	9	9	0	---	---
7230 ships & boats	1	0	1	0	---
7300 ordnance & access.	0	0	0	---	---
7400 manufac. wood prod.	28	19	9	0	---
7500 textile products	147	132	15	0	0
7600 rubber & plastic pr.	119	107	11	0	---
7900 manufac. prod. nec	496	434	62	0	0
Total unknown or not elsewhere classified	29	22	6	0	1
9900 unknown or nec	29	22	6	0	1

TACOMA HARBOR, WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	7,604	1,957	1,877	2,412	755	603
Total petroleum and petroleum products	4,133	1,609	325	1,107	498	595
Subtotal crude petroleum	1,574	1,566	—	—	—	8
2100 crude petroleum	1,574	1,566	—	—	—	8
Subtotal petroleum products	2,559	43	325	1,107	498	587
2211 gasoline	164	2	14	119	28	—
2330 distillate fuel oil	508	18	273	64	147	5
2340 residual fuel oil	1,815	23	20	879	312	580
2350 lube oil & greases	37	—	15	16	7	—
2429 naphtha & solvents	3	—	—	—	2	2
2430 asphalt, tar & pitch	7	—	—	7	—	—
2540 petroleum coke	23	—	—	21	2	—
2990 petro. products nec	2	—	2	—	—	—
Total chemicals and related products	251	49	178	1	23	1
Subtotal fertilizers	1	—	1	—	—	—
3190 fert. & mixes nec	1	—	1	—	—	—
Subtotal other chemicals and related products	251	49	177	1	23	1
3220 alcohols	16	16	—	—	—	—
3274 sodium hydroxide	198	22	162	1	12	1
3275 inorg. elem., oxides, & halogen salts	11	—	—	—	11	—
3285 perfumes & cleansers	0	—	0	—	—	—
3286 plastics	0	0	0	—	—	—
3298 wood & resin chem.	0	—	0	—	—	—
3299 chem. products nec	25	10	15	—	—	—
Total crude materials, inedible except fuels	1,567	20	27	1,302	213	6
Subtotal forest products, wood and chips	1,179	—	19	941	213	6
4150 fuel wood	0	—	0	—	—	—
4161 wood chips	189	—	—	186	—	3
4170 wood in the rough	971	—	0	755	213	3
4189 lumber	19	—	19	—	—	—
Subtotal pulp and waste paper	24	—	8	16	—	—
4225 pulp & waste paper	24	—	8	16	—	—
Subtotal soil, sand, gravel, rock and stone	329	—	0	329	—	—
4323 gypsum	0	—	0	—	—	—
4331 sand & gravel	329	—	—	329	—	—
Subtotal iron ore and scrap	35	20	—	15	—	—
4420 iron & steel scrap	35	20	—	15	—	—
Subtotal non-ferrous ores and scrap	0	—	0	—	—	—
4690 non-ferrous ores nec	0	—	0	—	—	—
Subtotal sulphur, clay and salt	0	—	0	—	—	—
4782 clay & refrac. mat.	0	—	0	—	—	—
Total primary manufactured goods	88	2	71	0	15	0
Subtotal paper products	11	—	11	—	—	—
5120 paper & paperboard	0	—	0	—	—	—
5190 paper products nec	10	—	10	—	—	—
Subtotal lime, cement and glass	28	—	13	—	14	—
5240 glass & glass prod.	0	—	0	—	—	—
5290 misc. mineral prod.	28	—	13	—	14	—
Subtotal primary iron and steel products	6	—	6	—	—	—
5320 i&s primary forms	0	—	0	—	—	—
5330 i&s plates & sheets	0	—	0	—	—	—
5360 i&s bars & shapes	6	—	6	—	—	—
5370 i&s pipe & tube	0	—	0	—	—	—
Subtotal primary non-ferrous metal products	44	2	41	0	0	0
5422 aluminum	0	—	0	—	—	—
5480 fab. metal products	44	2	41	0	0	0
Total food and farm products	919	48	870	1	—	—
Subtotal fish	47	46	—	1	—	—
6134 fish (not shellfish)	46	46	—	0	—	—
6136 shellfish	1	0	—	0	—	—
Subtotal oilseeds	0	—	0	—	—	—
6590 oilseeds nec	0	—	0	—	—	—
Subtotal vegetable products	1	—	1	—	—	—
6653 vegetable oils	0	—	0	—	—	—
6654 vegetables & prod.	1	—	1	—	—	—
Subtotal processed grain and animal feed	11	0	11	—	—	—
6746 wheat flour	7	0	7	—	—	—
6747 grain mill products	0	—	0	—	—	—
6781 hay & fodder	2	—	2	—	—	—
6782 animal feed, prep.	2	—	2	—	—	—
Subtotal other agricultural products	860	2	858	—	—	—
6811 meat, fresh, frozen	1	—	1	—	—	—
6817 meat, prepared	2	—	2	—	—	—
6835 fish, prepared	0	0	—	—	—	—
6839 animals & prod. nec	494	2	493	—	—	—
6857 fruit & nuts nec	12	—	12	—	—	—
6871 coffee	0	—	0	—	—	—
6885 alcoholic beverages	3	—	3	—	—	—
6887 groceries	339	—	339	—	—	—
6889 food products nec	2	0	2	—	—	—
6893 cotton	0	—	0	—	—	—
6899 farm products nec	7	—	7	—	—	—

TACOMA HARBOR, WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Receipts	Internal	
		Receipts	Shipments		Shipments	Intraport
Total all manufactured equipment, machinery and products	621	224	387	2	7	1
7110 machinery (not elec)	3	0	1	0	1	—
7120 electrical machinery	0	—	0	—	—	—
7210 vehicles & parts	56	19	37	—	0	—
7220 aircraft & parts	0	—	0	—	—	—
7230 ships & boats	0	—	0	—	0	—
7300 ordnance & access.	0	0	0	—	—	—
7400 manufac. wood prod.	14	—	14	—	—	—
7500 textile products	0	0	0	—	—	—
7600 rubber & plastic pr.	0	—	0	—	—	—
7900 manufac. prod. nec	548	205	335	2	5	1
Total unknown or not elsewhere classified	24	5	20	—	—	—
9900 unknown or nec	24	5	20	—	—	—

*Includes 430 (x1000) tons of foreign inbound in-transits; Includes 123 (x1000) tons of foreign outbound in-transits;
Includes 11 (x1000) tons of Canadian inbound in-transits; Includes 0 (x1000) tons of Canadian outbound in-transits.

SEATTLE HARBOR, WA

Section Included: From Union Oil dock near Edmonds on the North to Fauntleroy Ferry Slip on the south, including Elliott Bay, East, West, and Duwamish Waterway, Lake Washington Ship Canal, Salmon Bay, Lake Union, Lake Washington, and Kenmore Navigation Channel. Controlling Depth: Elliott Bay, unlimited; West Waterway, 28.0 feet; East Waterway, 31.2 feet; Duwamish Waterway, 18.2 feet from head of West Waterway to 1st Avenue So., 11.0 feet from 1st Avenue So. 14th Avenue So. 8.5 feet from 14th Avenue So. to head of waterway; Lake Washington Ship Canal, 29.2 feet below locks; above the locks 26.1 feet, Kenmore Navigation Channel; 13.6 feet. Project Depth: Elliot Bay, unlimited; East and West Waterways, 34 feet; Duwamish Waterway, 30 feet to First Avenue South; 20 feet to 8th Avenue South; and 15 feet from 8th Avenue South to head of waterway; Lake Washington Ship Canal, 34 feet below locks; 30 feet at lower pool level, Kenmore Navigation Channel; 15 feet. All depths refer to mllw except inside Lake Washington Ship Canal which reflects low lake level.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	18,646	1991	20,897	1994	22,336	1997	26,564
1989	21,763	1992	21,883	1995	26,180		
1990	21,570	1993	21,693	1996	23,547		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
Total, all commodities	18,651	4,167	10,647	3,682	155
Total coal	64	—	4	60	—
1100 coal lignite	64	—	4	60	—
Total petroleum and petroleum products	94	1	19	3	72
Subtotal petroleum products	94	1	19	3	72
2211 gasoline	22	—	0	—	21
2221 kerosene	21	—	0	—	20
2330 distillate fuel oil	3	—	1	3	—
2340 residual fuel oil	29	—	3	—	26
2350 lube oil & greases	7	0	7	—	—
2410 petro. jelly & waxes	2	0	1	—	—
2429 naphtha & solvents	4	0	0	—	4
2430 asphalt, tar & pitch	1	0	1	—	—
2540 petroleum coke	4	0	4	—	—
2640 liquid natural gas	1	0	1	0	—
Total chemicals and related products	689	187	491	8	3
Subtotal fertilizers	15	0	15	0	—
3110 nitrogenous fert.	2	0	2	—	—
3120 phosphatic fert.	0	—	0	—	—
3130 potassic fert.	2	—	2	—	—
3190 fert. & mixes nec	11	0	11	0	—
Subtotal other chemicals and related products	674	187	476	8	3
3211 acyclic hydrocarbons	0	0	0	—	—
3212 benzene & toluene	0	0	—	—	—
3219 other hydrocarbons	4	1	3	—	—
3220 alcohols	33	20	13	0	—
3230 carboxylic acids	28	8	20	0	—
3240 nitrogen func. comp.	36	14	22	—	0
3250 organo-inorganic comp.	10	6	4	—	—
3260 organic comp. nec	13	2	11	—	—
3271 sulphur (liquid)	7	—	7	—	—
3272 sulphuric acid	1	0	1	—	—
3273 ammonia	4	0	4	—	—
3274 sodium hydroxide	3	0	2	—	—
3275 inorg. elem., oxides, & halogen salts	29	9	20	—	0
3276 metallic salts	36	10	23	1	2
3279 inorganic chem. nec	2	1	2	0	—
3281 radioactive material	3	1	3	—	—

SEATTLE HARBOR, WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
3282 pigments & paints	13	5	8	—	0
3283 coloring mat. nec	9	7	2	—	—
3284 medicines	6	3	4	—	—
3285 perfumes & cleansers	32	4	27	0	0
3286 plastics	251	78	172	1	0
3291 pesticides	2	0	2	—	0
3292 starches, gluten, glue	32	7	25	0	0
3293 explosives	1	1	0	—	—
3297 chemical additives	9	0	9	0	1
3298 wood & resin chem.	73	1	67	5	0
3299 chem. products nec	36	11	25	0	0
Total crude materials, inedible except fuels	4,654	540	1,260	2,795	59
Subtotal forest products, wood and chips	981	63	654	221	43
4110 rubber & gums	11	10	0	—	—
4150 fuel wood	3	0	3	0	—
4161 wood chips	110	—	56	26	28
4170 wood in the rough	233	0	205	13	14
4189 lumber	620	48	389	182	—
4190 forest products nec	6	4	2	—	0
Subtotal pulp and waste paper	357	0	333	22	1
4225 pulp & waste paper	357	0	333	22	1
Subtotal soil, sand, gravel, rock and stone	2,888	405	77	2,391	15
4310 building stone	1	1	0	—	—
4322 limestone	1,878	—	0	1,878	—
4323 gypsum	513	404	27	82	—
4327 phosphate rock	1	—	1	—	—
4331 sand & gravel	495	0	49	432	15
Subtotal iron ore and scrap	213	0	53	160	0
4420 iron & steel scrap	213	0	53	160	0
Subtotal marine shells	0	0	0	—	—
4515 marine shells	0	0	0	—	—
Subtotal non-ferrous ores and scrap	100	67	34	0	0
4630 copper ore	0	—	0	—	—
4650 aluminum ore	63	62	1	—	—
4670 manganese ore	0	—	0	—	—
4680 non-ferrous scrap	31	3	28	0	0
4690 non-ferrous ores nec	7	2	4	0	—
Subtotal sulphur, clay and salt	71	3	67	0	—
4741 sulphur, (dry)	1	—	1	—	—
4782 clay & refrac. mat.	70	3	66	0	—
Subtotal slag	0	—	0	—	—
4860 slag	0	—	0	—	—
Subtotal other non-metal. min.	43	2	41	1	—
4900 non-metal. min. nec	43	2	41	1	—
Total primary manufactured goods	2,712	870	1,043	791	8
Subtotal paper products	893	39	630	223	0
5110 newsprint	215	2	87	127	—
5120 paper & paperboard	614	18	499	96	0
5190 paper products nec	64	19	44	1	—
Subtotal lime, cement and glass	962	389	139	427	7
5210 lime	0	—	0	—	—
5220 cement & concrete	682	243	6	427	7
5240 glass & glass prod.	54	25	29	0	0
5290 misc. mineral prod.	226	121	104	0	0
Subtotal primary iron and steel products	147	102	45	0	0
5312 pig iron	2	0	2	—	—
5315 ferro alloys	6	1	5	—	—
5320 i&s primary forms	2	0	2	0	—
5330 i&s plates & sheets	52	23	29	0	—
5360 i&s bars & shapes	11	10	1	—	—
5370 i&s pipe & tube	54	50	5	0	0
5390 primary i&s nec	19	18	1	—	—
Subtotal primary non-ferrous metal products	467	319	146	1	0
5421 copper	21	5	16	—	—
5422 aluminum	98	13	85	0	0
5429 smelted prod. nec	11	4	7	0	—
5480 fab. metal products	337	297	39	1	0
Subtotal primary wood products	243	22	82	139	0
5540 primary wood prod.	243	22	82	139	0
Total food and farm products	7,625	267	7,338	15	5
Subtotal fish	127	52	70	4	1
6134 fish (not shellfish)	105	33	68	3	1
6136 shellfish	21	18	3	0	0
Subtotal grain	3,739	15	3,724	0	—
6241 wheat	48	—	48	—	—
6344 corn	3,596	1	3,595	—	—
6442 rice	15	14	1	—	—
6443 barley & rye	0	—	0	—	—
6445 oats	3	—	3	0	—
6447 sorghum grains	76	—	76	—	—
Subtotal oilseeds	903	1	901	0	—
6521 peanuts	0	0	0	—	—
6522 soybeans	865	0	865	0	—
6534 flaxseed	1	—	1	—	—
6590 oilseeds nec	36	1	35	0	—
Subtotal vegetable products	453	21	431	1	1
6653 vegetable oils	6	0	6	—	0
6654 vegetables & prod.	447	21	425	1	1
Subtotal processed grain and animal feed	994	8	982	5	0
6746 wheat flour	8	0	7	1	—
6747 grain mill products	36	2	32	2	0

SEATTLE HARBOR, WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
6781 hay & fodder	567	0	565	1	—
6782 animal feed, prep.	384	6	377	0	—
Subtotal other agricultural products	1,410	171	1,230	5	4
6811 meat, fresh, frozen	385	4	378	2	0
6817 meat, prepared	11	1	10	—	—
6822 dairy products	45	1	43	0	—
6835 fish, prepared	29	8	21	0	0
6838 tallow, animal oils	1	0	0	0	—
6839 animals & prod. nec	217	7	210	0	0
6856 bananas & plantains	1	0	0	—	—
6857 fruit & nuts nec	345	36	307	1	1
6858 fruit juices	105	63	39	0	3
6861 sugar	0	0	0	—	—
6865 molasses	0	0	0	—	—
6871 coffee	25	25	0	0	0
6872 cocoa beans	1	1	0	—	—
6885 alcoholic beverages	72	7	64	0	—
6888 water & ice	1	0	1	0	—
6889 food products nec	103	13	90	0	0
6891 tobacco & products	30	1	30	—	—
6893 cotton	3	0	3	—	—
6894 natural fibers nec	1	1	0	—	—
6899 farm products nec	35	2	32	0	0
Total all manufactured equipment, machinery and products	2,772	2,281	475	8	8
7110 machinery (not elec)	486	342	136	1	7
7120 electrical machinery	439	368	71	0	0
7210 vehicles & parts	358	319	39	0	—
7220 aircraft & parts	7	6	1	—	—
7230 ships & boats	5	1	3	1	0
7300 ordnance & access.	6	1	5	—	—
7400 manufac. wood prod.	57	27	28	2	—
7500 textile products	296	255	41	1	0
7600 rubber & plastic pr.	207	178	29	0	0
7900 manufac. prod. nec	910	784	122	2	1
Total unknown or not elsewhere classified	41	19	18	3	0
9900 unknown or nec	41	19	18	3	0

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	7,914	459	1,096	4,131	1,073	1,154
Total coal	0	—	—	0	0	—
1100 coal lignite	0	—	—	0	0	—
Total petroleum and petroleum products	3,676	95	14	1,763	677	1,126
Subtotal petroleum products	3,676	95	14	1,763	677	1,126
2211 gasoline	89	35	0	42	8	4
2221 kerosene	0	—	0	—	—	—
2330 distillate fuel oil	413	2	10	259	50	93
2340 residual fuel oil	3,062	35	0	1,393	608	1,025
2350 lube oil & greases	12	0	0	9	2	1
2429 naphtha & solvents	12	—	—	10	2	—
2430 asphalt, tar & pitch	27	23	2	—	2	—
2540 petroleum coke	55	—	1	50	2	3
2640 liquid natural gas	2	0	1	—	2	—
2990 petro. products nec	2	0	1	0	2	—
Total chemicals and related products	92	16	50	2	20	3
Subtotal fertilizers	41	—	40	—	1	—
3110 nitrogenous fert.	2	—	1	—	1	—
3190 fert. & mixes nec	39	—	38	—	0	—
Subtotal other chemicals and related products	51	16	10	2	19	3
3211 acyclic hydrocarbons	0	0	0	—	—	—
3220 alcohols	19	16	0	—	—	3
3230 carboxylic acids	0	—	0	—	—	—
3260 organic comp. nec	0	—	0	—	—	—
3273 ammonia	0	—	—	0	—	—
3274 sodium hydroxide	3	—	—	—	3	—
3275 inorg. elem., oxides, & halogen salts	0	0	0	—	0	—
3276 metallic salts	0	—	0	—	0	—
3279 inorganic chem. nec	0	—	0	—	—	—
3281 radioactive material	0	0	—	—	—	—
3282 pigments & paints	5	—	1	1	3	—
3284 medicines	0	0	—	—	—	—
3285 perfumes & cleansers	1	—	1	—	—	—
3286 plastics	7	0	4	0	3	—
3291 pesticides	0	—	0	—	—	—
3293 explosives	0	—	0	—	—	—
3299 chem. products nec	15	0	3	1	10	—
Total crude materials, inedible except fuels	2,463	16	120	2,243	83	0
Subtotal forest products, wood and chips	147	1	97	10	40	0
4110 rubber & gums	1	—	—	0	0	—
4150 fuel wood	0	—	—	0	—	—
4161 wood chips	0	—	—	—	0	—

SEATTLE HARBOR, WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Receipts	Internal	
		Receipts	Shipments		Shipments	Intraport
4170 wood in the rough	26	—	0	1	25	0
4189 lumber	116	1	94	8	13	0
4190 forest products nec	5	—	2	2	1	—
Subtotal pulp and waste paper	40	0	0	38	2	—
4225 pulp & waste paper	40	0	0	38	2	—
Subtotal soil, sand, gravel, rock and stone	2,136	—	4	2,093	39	0
4331 sand & gravel	2,131	—	0	2,093	37	0
4338 soil & fill dirt	5	—	3	0	2	0
Subtotal iron ore and scrap	18	15	—	2	1	—
4420 iron & steel scrap	18	15	—	2	1	—
Subtotal marine shells	0	—	0	—	—	—
4515 marine shells	0	—	0	—	—	—
Subtotal non-ferrous ores and scrap	0	0	—	0	—	—
4680 non-ferrous scrap	0	0	—	—	—	—
4690 non-ferrous ores nec	0	—	—	0	—	—
Subtotal sulphur, clay and salt	101	—	1	100	0	0
4782 clay & refrac. mat.	101	—	1	100	0	0
Subtotal slag	11	—	11	—	—	—
4860 slag	11	—	11	—	—	—
Subtotal other non-metal. min.	10	0	9	—	1	—
4900 non-metal. min. nec	10	0	9	—	1	—
Total primary manufactured goods	407	64	249	24	69	0
Subtotal paper products	64	0	38	16	10	—
5110 newsprint	20	0	3	15	2	—
5120 paper & paperboard	8	0	8	—	—	—
5190 paper products nec	36	0	27	0	9	—
Subtotal lime, cement and glass	122	4	92	3	23	0
5210 lime	0	0	0	—	—	—
5220 cement & concrete	60	4	45	0	11	—
5240 glass & glass prod.	7	—	1	0	6	—
5290 misc. mineral prod.	55	0	46	2	6	0
Subtotal primary iron and steel products	2	0	1	—	1	—
5330 i&s plates & sheets	0	—	0	—	—	—
5360 i&s bars & shapes	0	—	0	—	—	—
5370 i&s pipe & tube	1	0	1	—	1	—
Subtotal primary non-ferrous metal products	178	60	78	6	34	0
5421 copper	0	—	0	—	—	—
5422 aluminum	0	—	0	—	—	—
5429 smelted prod. nec	1	—	1	—	—	—
5480 fab. metal products	177	60	76	6	34	0
Subtotal primary wood products	40	—	40	—	1	—
5540 primary wood prod.	40	—	40	—	1	—
Total food and farm products	357	85	135	51	63	23
Subtotal fish	56	27	4	24	1	—
6134 fish (not shellfish)	45	19	4	21	1	—
6136 shellfish	11	8	0	3	0	—
Subtotal vegetable products	30	1	30	—	0	—
6654 vegetables & prod.	30	1	30	—	0	—
Subtotal processed grain and animal feed	51	0	50	1	—	—
6746 wheat flour	2	—	2	—	—	—
6747 grain mill products	0	—	0	—	—	—
6781 hay & fodder	1	—	1	—	—	—
6782 animal feed, prep.	48	0	47	1	—	—
Subtotal other agricultural products	220	58	51	26	62	23
6811 meat, fresh, frozen	5	0	5	0	0	—
6822 dairy products	1	—	1	—	—	—
6835 fish, prepared	19	4	0	14	0	—
6839 animals & prod. nec	1	1	0	—	—	—
6857 fruit & nuts nec	4	0	4	—	—	—
6858 fruit juices	13	13	0	—	0	—
6861 sugar	0	—	0	—	—	—
6865 molasses	48	25	—	—	—	23
6871 coffee	0	0	0	—	—	—
6885 alcoholic beverages	19	0	5	3	11	—
6887 groceries	24	0	6	0	18	—
6888 water & ice	2	—	0	1	0	—
6889 food products nec	80	15	27	6	33	—
6891 tobacco & products	0	0	0	—	—	—
6899 farm products nec	3	0	3	—	0	—
Total all manufactured equipment, machinery and products	919	182	528	47	160	2
7110 machinery (not elec)	54	13	19	7	16	1
7120 electrical machinery	12	0	1	1	10	—
7210 vehicles & parts	41	10	18	5	8	—
7220 aircraft & parts	0	0	0	—	—	—
7230 ships & boats	3	0	1	1	1	—
7300 ordnance & access.	0	—	0	—	—	—
7400 manufac. wood prod.	33	0	12	8	13	0
7500 textile products	4	—	0	0	3	—
7600 rubber & plastic pr.	3	0	0	0	2	—
7900 manufac. prod. nec	769	157	478	26	107	1
Total waste and scrap nec	0	—	—	0	—	—
8900 waste and scrap nec	0	—	—	0	—	—

*Includes 322 (x1000) tons of foreign inbound in-transits; Includes 148 (x1000) tons of foreign outbound in-transits;
Includes 45 (x1000) tons of Canadian inbound in-transits; Includes 7 (x1000) tons of Canadian outbound in-transits.

LAKE WASHINGTON SHIP CANAL, WA (INCLUDED IN TRAFFIC OF SEATTLE HARBOR, WA)

Section Included: As described under Seattle Harbor, WA.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	1,740	1991	1,437	1994	1,365	1997	1,496
1989	1,566	1992	1,614	1995	1,555		
1990	1,724	1993	1,919	1996	1,316		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports*
Total, all commodities	199	9	126	59	5
Total coal	5	—	—	5	—
1100 coal lignite	5	—	—	5	—
Total petroleum and petroleum products	0	—	0	—	—
Subtotal petroleum products	0	—	0	—	—
2350 lube oil & greases	0	—	0	—	—
Total chemicals and related products	2	—	2	—	—
Subtotal other chemicals and related products	2	—	2	—	—
3219 other hydrocarbons	0	—	0	—	—
3220 alcohols	0	—	0	—	—
3260 organic comp. nec	0	—	0	—	—
3275 inorg. elem. oxides, & halogen salts	0	—	0	—	—
3276 metallic salts	0	—	0	—	—
3282 pigments & paints	0	—	0	—	—
3285 perfumes & cleansers	0	—	0	—	—
3286 plastics	1	—	1	—	—
3298 wood & resin chem.	0	—	0	—	—
3299 chem. products nec	0	—	0	—	—
Total crude materials, inedible except fuels	83	—	36	43	4
Subtotal forest products, wood and chips	27	—	26	1	—
4170 wood in the rough	24	—	24	—	—
4189 lumber	4	—	2	1	—
Subtotal pulp and waste paper	9	—	9	—	—
4225 pulp & waste paper	9	—	9	—	—
Subtotal soil, sand, gravel, rock and stone	44	—	—	40	4
4322 limestone	25	—	—	25	—
4331 sand & gravel	19	—	—	15	4
Subtotal iron ore and scrap	1	—	0	1	—
4420 iron & steel scrap	1	—	0	1	—
Subtotal non-ferrous ores and scrap	0	—	0	—	—
4680 non-ferrous scrap	0	—	0	—	—
Subtotal sulphur, clay and salt	0	—	0	—	—
4782 clay & refrac. mat.	0	—	0	—	—
Total primary manufactured goods	15	0	4	11	—
Subtotal paper products	9	—	1	9	—
5110 newsprint	5	—	0	5	—
5120 paper & paperboard	4	—	1	3	—
5190 paper products nec	0	—	0	—	—
Subtotal lime, cement and glass	3	—	1	2	—
5220 cement & concrete	2	—	—	2	—
5240 glass & glass prod.	0	—	0	—	—
5290 misc. mineral prod.	1	—	1	—	—
Subtotal primary iron and steel products	0	—	0	—	—
5330 i&s plates & sheets	0	—	0	—	—
Subtotal primary non-ferrous metal products	2	0	2	—	—
5421 copper	1	—	1	—	—
5422 aluminum	1	—	1	—	—
5480 fab. metal products	0	0	0	—	—
Subtotal primary wood products	0	—	0	—	—
5540 primary wood prod.	0	—	0	—	—
Total food and farm products	92	9	83	0	—
Subtotal fish	10	9	1	0	—
6134 fish (not shellfish)	8	7	1	—	—
6136 shellfish	2	2	0	0	—
Subtotal grain	64	—	64	—	—
6344 corn	54	—	54	—	—
6447 sorghum grains	9	—	9	—	—
Subtotal oilseeds	1	—	1	—	—
6522 soybeans	1	—	1	—	—
6590 oilseeds nec	0	—	0	—	—
Subtotal vegetable products	3	—	3	—	—
6653 vegetable oils	0	—	0	—	—
6654 vegetables & prod.	3	—	3	—	—
Subtotal processed grain and animal feed	7	—	7	—	—
6746 wheat flour	0	—	0	—	—
6747 grain mill products	1	—	1	—	—
6781 hay & fodder	3	—	3	—	—
6782 animal feed, prep.	3	—	3	—	—
Subtotal other agricultural products	8	0	8	—	—
6811 meat, fresh, frozen	5	—	5	—	—
6817 meat, prepared	0	—	0	—	—
6822 dairy products	1	—	1	—	—
6835 fish, prepared	0	0	0	—	—
6839 animals & prod. nec	0	—	0	—	—
6857 fruit & nuts nec	1	—	1	—	—

LAKE WASHINGTON SHIP CANAL, WA (INCLUDED IN TRAFFIC OF SEATTLE HARBOR, WA)
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports*
6858 fruit juices	0	—	0	—	—
6885 alcoholic beverages	0	—	0	—	—
6889 food products nec	1	—	1	—	—
6891 tobacco & products	0	—	0	—	—
6899 farm products nec	0	—	0	—	—
Total all manufactured equipment, machinery and products	1	0	1	—	0
7110 machinery (not elec)	0	—	0	—	—
7120 electrical machinery	0	—	0	—	—
7210 vehicles & parts	0	—	0	—	—
7230 ships & boats	0	0	—	—	0
7300 ordnance & access.	0	—	0	—	—
7400 manufac. wood prod.	0	—	0	—	—
7500 textile products	0	0	0	—	—
7600 rubber & plastic pr.	0	—	0	—	—
7900 manufac. prod. nec	0	0	0	—	—
Total unknown or not elsewhere classified	0	0	0	—	—
9900 unknown or nec	0	0	0	—	—

Commodity	Total	Domestic			
		Coastwise		Internal	
		Receipts	Shipments	Inbound Upbound	Outbound Downbnd
Total, all commodities	1,297	37	133	1,053	74
Total petroleum and petroleum products	124	0	0	122	1
Subtotal petroleum products	124	0	0	122	1
2330 distillate fuel oil	122	—	0	122	0
2350 lube oil & greases	0	—	0	—	0
2640 liquid natural gas	1	—	0	—	1
2990 petro. products nec	0	0	0	—	0
Total chemicals and related products	9	0	5	0	3
Subtotal fertilizers	1	—	1	—	0
3110 nitrogenous fert.	1	—	1	—	0
Subtotal other chemicals and related products	7	0	4	0	3
3220 alcohols	3	—	—	—	3
3273 ammonia	0	—	—	0	—
3275 inorg. elem., oxides, & halogen salts	0	—	—	—	0
3276 metallic salts	0	—	0	—	0
3279 inorganic chem. nec	0	—	0	—	—
3282 pigments & paints	0	—	0	—	—
3285 perfumes & cleansers	0	—	0	—	—
3286 plastics	1	—	1	—	0
3299 chem. products nec	4	0	3	0	—
Total crude materials, inedible except fuels	932	0	16	896	20
Subtotal forest products, wood and chips	25	—	12	0	13
4150 fuel wood	0	—	—	0	—
4161 wood chips	0	—	—	—	0
4170 wood in the rough	9	—	0	0	9
4189 lumber	14	—	11	0	4
4190 forest products nec	2	—	1	—	1
Subtotal pulp and waste paper	0	—	—	0	—
4225 pulp & waste paper	0	—	—	0	—
Subtotal soil, sand, gravel, rock and stone	901	—	0	895	6
4331 sand & gravel	899	—	0	895	4
4338 soil & fill dirt	2	—	—	0	2
Subtotal iron ore and scrap	1	0	—	1	0
4420 iron & steel scrap	1	0	—	1	0
Subtotal non-ferrous ores and scrap	0	—	—	0	—
4690 non-ferrous ores nec	0	—	—	0	—
Subtotal sulphur, clay and salt	1	—	1	—	—
4782 clay & refrac. mat.	1	—	1	—	—
Subtotal other non-metal. min.	5	0	3	—	1
4900 non-metal. min. nec	5	0	3	—	1
Total primary manufactured goods	64	3	50	1	11
Subtotal paper products	7	0	6	0	1
5110 newsprint	0	—	—	0	—
5190 paper products nec	7	0	6	0	1
Subtotal lime, cement and glass	20	0	16	0	4
5210 lime	0	0	0	—	—
5220 cement & concrete	0	—	0	—	0
5240 glass & glass prod.	1	—	1	0	0
5290 misc. mineral prod.	19	—	15	0	4
Subtotal primary iron and steel products	0	—	0	—	0
5370 i&s pipe & tube	0	—	0	—	0
Subtotal primary non-ferrous metal products	29	3	20	0	6
5480 fab. metal products	29	3	20	0	6
Subtotal primary wood products	7	—	7	—	0
5540 primary wood prod.	7	—	7	—	0
Total food and farm products	84	29	9	31	15
Subtotal fish	44	25	3	15	0
6134 fish (not shellfish)	36	18	3	14	0
6136 shellfish	8	7	0	1	0

LAKE WASHINGTON SHIP CANAL, WA (INCLUDED IN TRAFFIC OF SEATTLE HARBOR, WA)
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Domestic			
		Coastwise		Internal	
		Receipts	Shipments	Inbound Upbound	Outbound Downbnd
Subtotal vegetable products	1	---	0	---	0
6654 vegetables & prod.	1	---	0	---	0
Subtotal processed grain and animal feed	1	---	0	1	---
6782 animal feed, prep.	1	---	0	1	---
Subtotal other agricultural products	39	4	5	15	15
6811 meat, fresh, frozen	1	0	0	0	0
6835 fish, prepared	14	4	---	10	0
6858 fruit juices	1	---	0	---	0
6885 alcoholic beverages	7	---	1	3	3
6887 groceries	15	0	3	---	12
6888 water & ice	1	---	---	1	0
6889 food products nec	0	---	0	0	---
6899 farm products nec	0	---	---	---	0
Total all manufactured equipment, machinery and products	84	5	52	3	23
7110 machinery (not elec)	6	1	3	1	1
7120 electrical machinery	0	0	0	---	0
7210 vehicles & parts	6	0	4	0	1
7230 ships & boats	2	0	1	1	1
7300 ordnance & access.	0	---	0	---	---
7400 manufac. wood prod.	8	---	4	0	4
7500 textile products	0	---	0	0	---
7600 rubber & plastic pr.	0	---	0	0	---
7900 manufac. prod. nec	62	4	40	1	17
Total waste and scrap nec	0	---	---	0	---
8900 waste and scrap nec	0	---	---	0	---

*Includes 1 (x1000) tons of foreign inbound in-transits; Includes 0 (x1000) tons of foreign outbound in-transits;
Includes 0 (x1000) tons of Canadian outbound in-transits.

EVERETT HARBOR AND SNOHOMISH RIVER, WA

Section Included: Port Gardner Bay from the Weyerhaeuser Company Thermo-Mechanical Mill, on the south to Preston Point on the north and including the Snohomish River and Tributary Waters. Controlling Depth: East Waterway, 33.3 feet; 14.0 feet in Port Gardner Bay to the settling basin; 8.8 feet in the settling basin; 6.1 feet from the settling basin to Burlington Northern Railroad; 4.8 feet from Burlington Northern Railroad to head of waterway at Steamboat Slough. Project Depth: East Waterway, 30 feet; deep water in Port Gardner Bay to settling basin, 15 feet; settling basin, 20 feet; from the settling basin to the gap, 8 feet; from the gap to the upstream settling basin, 8 feet; 40 feet in upstream settling basin; 8 feet to head of waterway. All depths refer to mlw.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	7,396	1991	5,453	1994	4,192	1997	3,640
1989	6,036	1992	6,010	1995	4,441		
1990	6,580	1993	4,714	1996	4,007		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports*
Total, all commodities	1,035	315	364	255	101
Total petroleum and petroleum products	0	---	0	---	---
Subtotal petroleum products	0	---	0	---	---
2350 lube oil & greases	0	---	0	---	---
Total chemicals and related products	0	0	0	---	---
Subtotal other chemicals and related products	0	0	0	---	---
3260 organic comp. nec	0	---	0	---	---
3286 plastics	0	0	---	---	---
3292 starches, gluten, glue	0	0	---	---	---
3297 chemical additives	0	---	0	---	---
Total crude materials, inedible except fuels	1,011	314	342	255	101
Subtotal forest products, wood and chips	451	---	342	8	101
4150 fuel wood	2	---	---	2	---
4161 wood chips	105	---	---	5	101
4170 wood in the rough	343	---	341	1	---
4189 lumber	1	---	1	---	---
Subtotal soil, sand, gravel, rock and stone	247	---	---	247	---
4331 sand & gravel	247	---	---	247	---
Subtotal non-ferrous ores and scrap	314	314	---	---	---
4650 aluminum ore	314	314	---	---	---
4690 non-ferrous ores nec	0	0	---	---	---
Subtotal other non-metal. min.	0	0	---	---	---
4900 non-metal. min. nec	0	0	---	---	---
Total primary manufactured goods	1	0	0	0	0
Subtotal paper products	0	0	0	---	---
5190 paper products nec	0	0	0	---	---

EVERETT HARBOR AND SNOHOMISH RIVER, WA
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports*
Subtotal lime, cement and glass	0	---	0	0	---
5290 misc. mineral prod.	0	---	0	0	---
Subtotal primary non-ferrous metal products	0	0	0	---	0
5480 fab. metal products	0	0	0	---	0
Total food and farm products	21	0	21	---	---
Subtotal grain	0	---	0	---	---
6344 corn	0	---	0	---	---
Subtotal vegetable products	6	0	6	---	---
6653 vegetable oils	0	---	0	---	---
6654 vegetables & prod.	6	0	6	---	---
Subtotal processed grain and animal feed	6	---	6	---	---
6746 wheat flour	0	---	0	---	---
6747 grain mill products	6	---	6	---	---
Subtotal other agricultural products	9	0	9	---	---
6811 meat, fresh, frozen	1	0	1	---	---
6817 meat, prepared	0	---	0	---	---
6822 dairy products	0	---	0	---	---
6839 animals & prod. nec	0	---	0	---	---
6857 fruit & nuts nec	6	---	6	---	---
6858 fruit juices	0	---	0	---	---
6861 sugar	1	---	1	---	---
6885 alcoholic beverages	0	0	---	---	---
6889 food products nec	0	---	0	---	---
6891 tobacco & products	0	---	0	---	---
6899 farm products nec	0	0	---	---	---
Total all manufactured equipment, machinery and products	1	0	1	---	0
7110 machinery (not elec)	0	0	0	---	---
7120 electrical machinery	0	0	0	---	---
7210 vehicles & parts	0	0	0	---	---
7220 aircraft & parts	0	0	---	---	---
7230 ships & boats	0	0	---	---	0
7400 manufac. wood prod.	0	---	0	---	---
7500 textile products	0	0	---	---	---
7600 rubber & plastic pr.	0	0	0	---	---
7900 manufac. prod. nec	1	0	1	---	---
Total unknown or not elsewhere classified	0	---	0	0	---
9900 unknown or nec	0	---	0	0	---

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	2,604	18	26	1,245	867	448
Total petroleum and petroleum products	53	---	---	39	14	---
Subtotal petroleum products	53	---	---	39	14	---
2340 residual fuel oil	53	---	---	39	14	---
Total chemicals and related products	18	---	---	18	---	---
Subtotal other chemicals and related products	18	---	---	18	---	---
3274 sodium hydroxide	9	---	---	9	---	---
3275 inorg. elem., oxides, & halogen salts	10	---	---	10	---	---
Total crude materials, inedible except fuels	2,502	18	26	1,160	850	448
Subtotal forest products, wood and chips	2,246	18	26	904	850	448
4150 fuel wood	6	---	---	---	6	---
4161 wood chips	170	---	---	22	149	0
4170 wood in the rough	2,070	18	26	882	696	448
Subtotal soil, sand, gravel, rock and stone	257	---	---	256	0	---
4331 sand & gravel	236	---	---	236	0	---
4335 waterway improv. mat	21	---	---	21	---	---
Total primary manufactured goods	19	---	---	19	0	---
Subtotal lime, cement and glass	18	---	---	18	---	---
5290 misc. mineral prod.	18	---	---	18	---	---
Subtotal primary non-ferrous metal products	1	---	---	1	0	---
5480 fab. metal products	1	---	---	1	0	---
Total food and farm products	1	---	---	1	---	---
Subtotal fish	1	---	---	1	---	---
6134 fish (not shellfish)	1	---	---	1	---	---
6136 shellfish	0	---	---	0	---	---
Total all manufactured equipment, machinery and products	10	---	---	7	3	0
7900 manufac. prod. nec	10	---	---	7	3	0

*Includes 26 (x1000) tons of Canadian outbound in-transits.

ANACORTES HARBOR, WA

Section Included: Water front of Fidalgo Island from Burrows Bay to and including the oil refinery wharves on Fidalgo Bay. Controlling Depth: Main harbor on Guemes Channel, 33 feet; CapSante Waterway, Outer Waterway 11.4 feet, Inner Waterway 11.8 feet, Anacortes Navigation Channel, 16.2 feet. Project Depth: No project for main harbor; Ca Sante Waterway, 12 feet Anacortes Navigation Channel, 18 feet. All depths refer to mllw.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	13,638	1991	14,481	1994	12,950	1997	13,904
1989	13,169	1992	15,260	1995	13,110		
1990	15,438	1993	13,124	1996	13,844		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports*	Exports*
Total, all commodities	1,719	479	404	193	643
Total petroleum and petroleum products	1,674	479	402	158	636
Subtotal crude petroleum	562	479	—	83	—
2100 crude petroleum	562	479	—	83	—
Subtotal petroleum products	1,113	—	402	75	636
2211 gasoline	175	—	—	—	175
2221 kerosene	30	—	21	—	9
2330 distillate fuel oil	82	—	28	55	—
2340 residual fuel oil	345	—	255	11	80
2350 lube oil & greases	0	—	0	—	—
2429 naphtha & solvents	112	—	98	10	3
2540 petroleum coke	369	—	—	—	369
Total chemicals and related products	1	0	1	—	—
Subtotal other chemicals and related products	1	0	1	—	—
3275 inorg. elem. oxides, & halogen salts	0	0	—	—	—
3282 pigments & paints	0	—	0	—	—
3285 perfumes & cleansers	0	—	0	—	—
3286 plastics	1	0	1	—	—
3292 starches, gluten, glue	0	—	0	—	—
3299 chem. products nec	0	—	0	—	—
Total crude materials, inedible except fuels	43	—	—	35	8
Subtotal forest products, wood and chips	43	—	—	35	8
4161 wood chips	2	—	—	—	2
4170 wood in the rough	41	—	—	35	6
Total primary manufactured goods	0	—	0	0	—
Subtotal paper products	0	—	0	0	—
5110 newsprint	0	—	—	0	—
5190 paper products nec	0	—	0	—	—
Subtotal primary non-ferrous metal products	0	—	0	—	—
5480 fab. metal products	0	—	0	—	—
Total food and farm products	0	—	0	—	—
Subtotal vegetable products	0	—	0	—	—
6654 vegetables & prod.	0	—	0	—	—
Subtotal processed grain and animal feed	0	—	0	—	—
6781 hay & fodder	0	—	0	—	—
Subtotal other agricultural products	0	—	0	—	—
6885 alcoholic beverages	0	—	0	—	—
Total all manufactured equipment, machinery and products	0	0	0	—	—
7110 machinery (not elec)	0	0	0	—	—
7210 vehicles & parts	0	—	0	—	—
7500 textile products	0	—	0	—	—
7600 rubber & plastic pr.	0	—	0	—	—

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	12,184	8,946	1,435	301	1,495	8
Total petroleum and petroleum products	12,064	8,946	1,430	251	1,428	8
Subtotal crude petroleum	8,923	8,923	—	—	—	—
2100 crude petroleum	8,923	8,923	—	—	—	—
Subtotal petroleum products	3,142	23	1,430	251	1,428	8
2211 gasoline	993	—	944	5	44	0
2330 distillate fuel oil	606	10	191	131	267	8
2340 residual fuel oil	1,509	14	296	110	1,090	—
2350 lube oil & greases	28	—	—	5	23	0
2540 petroleum coke	5	—	—	—	5	—
Total chemicals and related products	4	—	4	—	—	—
Subtotal other chemicals and related products	4	—	4	—	—	—
3230 carboxylic acids	4	—	4	—	—	—
Total crude materials, inedible except fuels	111	—	—	46	65	—
Subtotal forest products, wood and chips	111	—	—	46	65	—
4170 wood in the rough	111	—	—	46	65	—
4189 lumber	0	—	—	—	0	—

ANACORTES HARBOR, WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Receipts	Internal	
		Receipts	Shipments		Shipments	Intraport
Total primary manufactured goods	0	---	---	---	0	---
Subtotal lime, cement and glass	0	---	---	---	0	---
5290 misc. mineral prod.	0	---	---	---	0	---
Total food and farm products	3	---	0	3	0	---
Subtotal fish	3	---	---	3	0	---
6134 fish (not shellfish)	3	---	---	3	0	---
6136 shellfish	1	---	---	1	---	---
Subtotal other agricultural products	0	---	0	---	---	---
6888 water & ice	0	---	0	---	---	---
Total all manufactured equipment, machinery and products	2	---	0	0	1	---
7110 machinery (not elec)	0	---	0	---	0	---
7210 vehicles & parts	1	---	---	0	1	---
7230 ships & boats	0	---	---	0	---	---
7400 manufac. wood prod.	0	---	---	---	0	---

*Includes 10 (x1000) tons of Canadian inbound in-transits; Includes 45 (x1000) tons of Canadian outbound in-transits.

BELLINGHAM BAY AND HARBOR, WA

Section Included: Bellingham Bay and Chuckanut Bay from the wharf of the Olympic Portland Cement Company on the north to and including Chuckanut Inter-Island Ferry Slip on the south. Controlling Depth: Whatcom Creek Waterway, 8.9 to 25.8 feet; Squalicum Creek Waterway, 23.2 feet, from deep water to turning basin, 19.7 feet in turning basin, 11.8 feet from sta. 16 + 00 to 5 + 40; I & J St. Waterway, 11.0 ft. Project Depth: Whatcom Creek Waterway, 18 to 30 feet; Squalicum Creek Waterway, 26 feet over the entire waterway. I & J Street Waterway 18 feet over the entire waterway. All depths refer to mllw.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	1,867	1991	1,482	1994	1,343	1997	1,555
1989	1,769	1992	1,383	1995	1,291		
1990	1,303	1993	1,223	1996	1,419		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports*	Imports*	Exports*
Total, all commodities	1,050	309	278	382	82
Total coal	12	---	---	12	---
1100 coal lignite	12	---	---	12	---
Total petroleum and petroleum products	100	53	19	15	13
Subtotal crude petroleum	53	53	---	---	---
2100 crude petroleum	53	53	---	---	---
Subtotal petroleum products	47	0	19	15	13
2221 kerosene	10	---	---	---	10
2330 distillate fuel oil	19	---	19	---	---
2340 residual fuel oil	15	---	---	15	---
2429 naphtha & solvents	3	---	---	---	3
2640 liquid natural gas	0	0	---	---	---
Total chemicals and related products	59	---	52	6	1
Subtotal other chemicals and related products	59	---	52	6	1
3230 carboxylic acids	2	---	2	---	---
3274 sodium hydroxide	1	---	---	---	1
3285 perfumes & cleansers	17	---	17	---	---
3298 wood & resin chem.	38	---	32	6	---
3299 chem. products nec	1	---	1	---	---
Total crude materials, inedible except fuels	730	253	96	313	68
Subtotal forest products, wood and chips	224	201	0	21	1
4161 wood chips	202	200	---	---	1
4170 wood in the rough	20	---	---	20	---
4189 lumber	3	1	0	2	---
Subtotal pulp and waste paper	98	---	96	1	1
4225 pulp & waste paper	98	---	96	1	1
Subtotal soil, sand, gravel, rock and stone	337	---	---	271	65
4322 limestone	151	---	---	151	---
4323 gypsum	10	---	---	10	---
4331 sand & gravel	175	---	---	110	65
Subtotal iron ore and scrap	19	---	---	19	---
4420 iron & steel scrap	19	---	---	19	---
Subtotal non-ferrous ores and scrap	52	52	---	---	1
4650 aluminum ore	52	52	---	---	---
4690 non-ferrous ores nec	1	---	---	---	1
Total primary manufactured goods	95	0	60	35	---
Subtotal paper products	33	0	1	32	---
5110 newsprint	20	---	1	20	---

BELLINGHAM BAY AND HARBOR, WA
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports*	Imports*	Exports*
5120 paper & paperboard	13	—	0	13	—
5190 paper products nec	0	0	—	—	—
Subtotal lime, cement and glass	2	—	—	2	—
5220 cement & concrete	2	—	—	2	—
Subtotal primary iron and steel products	0	—	0	—	—
5360 i&s bars & shapes	0	—	0	—	—
Subtotal primary non-ferrous metal products	60	0	59	—	—
5422 aluminum	59	—	59	—	—
5480 fab. metal products	0	0	—	—	—
Subtotal primary wood products	0	0	0	—	—
5540 primary wood prod.	0	0	0	—	—
Total food and farm products	54	3	49	2	0
Subtotal fish	4	2	—	2	—
6134 fish (not shellfish)	2	0	—	2	—
6136 shellfish	2	2	—	—	—
Subtotal vegetable products	0	—	0	—	0
6654 vegetables & prod.	0	—	0	—	0
Subtotal other agricultural products	50	1	49	—	—
6811 meat, fresh, frozen	38	—	38	—	—
6817 meat, prepared	7	—	7	—	—
6838 tallow, animal oils	4	—	4	—	—
6857 fruit & nuts nec	0	0	0	—	—
6858 fruit juices	0	0	—	—	—
6885 alcoholic beverages	0	0	0	—	—
Total all manufactured equipment, machinery and products	0	—	0	—	0
7110 machinery (not elec)	0	—	0	—	—
7120 electrical machinery	0	—	0	—	—
7210 vehicles & parts	0	—	0	—	—
7500 textile products	0	—	—	—	0
7900 manufac. prod. nec	0	—	0	—	—

Commodity	Total	Domestic			
		Coastwise		Internal	
		Receipts	Shipments	Receipts	Shipments
Total, all commodities	505	191	150	72	92
Total petroleum and petroleum products	24	—	13	11	—
Subtotal petroleum products	24	—	13	11	—
2211 gasoline	21	—	13	8	—
2330 distillate fuel oil	0	—	—	0	—
2340 residual fuel oil	3	—	—	3	—
Total chemicals and related products	131	—	131	—	—
Subtotal other chemicals and related products	131	—	131	—	—
3274 sodium hydroxide	72	—	72	—	—
3298 wood & resin chem.	58	—	58	—	—
Total crude materials, inedible except fuels	331	191	6	50	84
Subtotal forest products, wood and chips	180	55	6	34	84
4161 wood chips	70	55	—	15	—
4170 wood in the rough	110	—	6	19	84
Subtotal pulp and waste paper	12	—	—	12	—
4225 pulp & waste paper	12	—	—	12	—
Subtotal soil, sand, gravel, rock and stone	4	—	—	4	—
4331 sand & gravel	4	—	—	4	—
Subtotal other non-metal. min.	135	135	—	—	—
4900 non-metal. min. nec	135	135	—	—	—
Total primary manufactured goods	7	0	—	—	7
Subtotal lime, cement and glass	6	—	—	—	6
5290 misc. mineral prod.	6	—	—	—	6
Subtotal primary non-ferrous metal products	1	0	—	—	1
5480 fab. metal products	1	0	—	—	1
Total food and farm products	12	0	—	11	—
Subtotal fish	12	0	—	11	—
6134 fish (not shellfish)	10	—	—	10	—
6136 shellfish	1	0	—	1	—
Total all manufactured equipment, machinery and products	0	0	0	—	—
7110 machinery (not elec)	0	—	0	—	—
7900 manufac. prod. nec	0	0	—	—	—

*Includes 20 (x1000) tons of foreign outbound in-transits; Includes 5 (x1000) tons of Canadian inbound in-transits;
Includes 3 (x1000) tons of Canadian outbound in-transits.

Other Harbors and Waterways 1997

Harbor or Waterway Project	Commodity	Thousand Short Tons
BLAINE HARBOR, WA	No Commerce Reported	
COLUMBIA RIVER BETWEEN WENATCHEE AND KETTLE FALLS, WA	No Commerce Reported	
FLATHEAD LAKE, MT	No Commerce Reported	
HOQUIAM RIVER, WA	4170 wood in the rough	13
	Total Tons(x1000)	13
	Total Ton-miles(x1000)	26
KOOTENAI RIVER, ID AND MT	No Commerce Reported	
NEAH BAY, WA	4170 wood in the rough	90
	6134 fish (not shellfish)	3
	6136 shellfish	0
	Total Tons(x1000)	93
PORT GAMBLE HARBOR, WA	4170 wood in the rough	38
	Total Tons(x1000)	38
QUILLAYUTE RIVER, WA	6134 fish (not shellfish)	11
	6136 shellfish	5
	Total Tons(x1000)	16
	Total Ton-miles(x1000)	16
SKAGIT RIVER, WA	6134 fish (not shellfish)	0
	7110 machinery (not elec)	0
	Total Tons(x1000)	0
	Total Ton-miles(x1000)	1
STILLAGUAMISH RIVER, WA	No Commerce Reported	
SWINOMISH CHANNEL, WA	4161 wood chips	4
	4170 wood in the rough	102
	4331 sand & gravel	6
	6134 fish (not shellfish)	5
	6136 shellfish	1
	Total Tons(x1000)	119
	Total Ton-miles(x1000)	441
WATERWAY CONNECTING PORT TOWNSEND BAY AND OAK BAY, WA	3293 explosives	0
	4170 wood in the rough	51
	Total Tons(x1000)	51
	Total Ton-miles(x1000)	256
WILLAPA RIVER AND HARBOR, AND NASELLE RIVER, WA	6134 fish (not shellfish)	0
	6136 shellfish	0
	Total Tons(x1000)	0
Non-project		
COEUR D ALENE LAKE AND ST. JOE RIVER, ID	4170 wood in the rough	546
	Total Tons(x1000)	546
	Total Ton-miles(x1000)	10,643
OTHER PUGET SOUND AREA PORTS, WA (NET)	2100 crude petroleum	16,644
	2211 gasoline	2,388
	2221 kerosene	87

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Non-project	Commodity	Thousand Short Tons
OTHER PUGET SOUND AREA PORTS, WA (NET) - continued	2330 distillate fuel oil	959
	2340 residual fuel oil	1,923
	2350 lube oil & greases	0
	2429 naphtha & solvents	337
	2430 asphalt, tar & pitch	64
	2540 petroleum coke	73
	2640 liquid natural gas	122
	2990 petro. products nec	33
	3110 nitrogenous fert.	0
	3211 acyclic hydrocarbons	42
	3212 benzene & toluene	48
	3220 alcohols	0
	3230 carboxylic acids	0
	3250 organo-inorganic comp.	0
	3272 sulphuric acid	2
	3276 metallic salts	1
	3281 radioactive material	0
	3282 pigments & paints	0
	3285 perfumes & cleansers	0
	3286 plastics	2
	3291 pesticides	0
	3292 starches, gluten, glue	0
	3293 explosives	0
	3297 chemical additives	0
	3298 wood & resin chem.	5
	3299 chem. products nec	0
	4161 wood chips	6
	4170 wood in the rough	569
	4189 lumber	0
	4190 forest products nec	0
	4322 limestone	51
	4331 sand & gravel	3,250
	4335 waterway improv. mat	21
	4338 soil & fill dirt	3
	4420 iron & steel scrap	0
	4650 aluminum ore	193
	4680 non-ferrous scrap	0
	4690 non-ferrous ores nec	0
	4782 clay & refrac. mat.	104
	4900 non-metal. min. nec	0
	5110 newsprint	1
	5120 paper & paperboard	1
	5190 paper products nec	0
	5220 cement & concrete	4
	5240 glass & glass prod.	0
	5290 misc. mineral prod.	0
	5421 copper	0
	5422 aluminum	0
	5480 fab. metal products	0
	6134 fish (not shellfish)	1
	6136 shellfish	1
	6654 vegetables & prod.	1
	6746 wheat flour	0
	6747 grain mill products	0
	6781 hay & fodder	1
	6782 animal feed, prep.	0
	6811 meat, fresh, frozen	0
	6857 fruit & nuts nec	1
	6858 fruit juices	0
	6885 alcoholic beverages	0
	6888 water & ice	0
	6889 food products nec	0
	6891 tobacco & products	0
	6899 farm products nec	0
	7110 machinery (not elec)	1
	7120 electrical machinery	0
	7210 vehicles & parts	2
	7220 aircraft & parts	0
	7400 manufac. wood prod.	0
	7500 textile products	0
	7600 rubber & plastic pr.	0
	7900 manufac. prod. nec	6
	8900 waste and scrap nec	0
	9900 unknown or nec	0
	Total Tons(x1000)	26,947

KETCHIKAN HARBOR, AK

Section Included: Tongass Narrows from Point Higgins on the north to Mountain Point on the south and including Herring Bay on George Inlet.
 Controlling Depth: Main Harbor, adequate; small boat basins, Ketchikan Creek, 10.0 feet; Bar Point, 15 feet. Project Depth: No project depth for Main Harbor; small boat basins, 10 and 15 feet. All depths refer to mllw.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	2,005	1991	1,568	1994	1,759	1997	1,241
1989	2,294	1992	1,986	1995	1,821		
1990	1,947	1993	1,564	1996	1,341		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Exports*	Imports	Exports	Imports
Total, all commodities	333	220	12	102	
Total petroleum and petroleum products	6	—	6	—	
Subtotal petroleum products	6	—	6	—	
2211 gasoline	0	—	0	—	
2330 distillate fuel oil	3	—	3	—	
2429 naphtha & solvents	2	—	2	—	
Total chemicals and related products	0	0	—	—	
Subtotal other chemicals and related products	0	0	—	—	
3285 perfumes & cleansers	0	0	—	—	
Total crude materials, inedible except fuels	316	215	6	96	
Subtotal forest products, wood and chips	200	152	—	49	
4161 wood chips	11	—	—	11	
4170 wood in the rough	160	122	—	37	
4189 lumber	30	30	—	—	
Subtotal pulp and waste paper	50	50	—	—	
4225 pulp & waste paper	50	50	—	—	
Subtotal soil, sand, gravel, rock and stone	6	—	6	—	
4331 sand & gravel	6	—	6	—	
Subtotal non-ferrous ores and scrap	60	13	—	47	
4690 non-ferrous ores nec	60	13	—	47	
Total primary manufactured goods	0	0	—	—	
Subtotal primary non-ferrous metal products	0	0	—	—	
5422 aluminum	0	0	—	—	
Total food and farm products	11	5	—	6	
Subtotal fish	11	5	—	6	
6134 fish (not shellfish)	11	5	—	6	
6136 shellfish	0	—	—	0	
Subtotal other agricultural products	0	0	—	—	
6835 fish, prepared	0	0	—	—	
6889 food products nec	0	0	—	—	
Total all manufactured equipment, machinery and products	0	0	0	—	
7110 machinery (not elec)	0	0	—	—	
7120 electrical machinery	0	0	—	—	
7400 manufac. wood prod.	0	—	0	—	
Total unknown or not elsewhere classified	0	—	0	—	
9900 unknown or nec	0	—	0	—	

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	908	86	34	504	239	45
Total coal	0	—	—	0	0	—
1100 coal lignite	0	—	—	0	0	—
Total petroleum and petroleum products	341	79	13	104	136	9
Subtotal petroleum products	341	79	13	104	136	9
2211 gasoline	117	30	5	41	39	2
2330 distillate fuel oil	203	44	8	49	96	7
2340 residual fuel oil	20	5	—	13	1	—
2350 lube oil & greases	0	—	—	0	0	—
2540 petroleum coke	0	—	—	0	—	—
2640 liquid natural gas	0	—	—	0	0	—
2990 petro. products nec	1	—	—	1	0	—
Total chemicals and related products	13	1	—	8	3	—
Subtotal other chemicals and related products	13	1	—	8	3	—
3273 ammonia	0	—	—	—	0	—
3274 sodium hydroxide	5	1	—	3	1	—
3282 pigments & paints	2	—	—	1	1	—
3286 plastics	1	—	—	1	0	—
3293 explosives	1	—	—	0	1	—
3299 chem. products nec	5	—	—	4	1	—

KETCHIKAN HARBOR, AK
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total crude materials, inedible except fuels	365	---	21	279	30	35
Subtotal forest products, wood and chips	347	---	15	275	22	35
4110 rubber & gums	0	---	---	0	0	---
4150 fuel wood	6	---	---	2	4	---
4161 wood chips	28	---	15	13	---	---
4170 wood in the rough	302	---	---	254	13	35
4189 lumber	9	---	---	5	4	---
4190 forest products nec	1	---	---	0	1	---
Subtotal pulp and waste paper	0	---	---	0	0	---
4225 pulp & waste paper	0	---	---	0	0	---
Subtotal soil, sand, gravel, rock and stone	1	---	---	0	1	---
4331 sand & gravel	1	---	---	0	1	---
Subtotal iron ore and scrap	16	---	6	3	7	---
4420 iron & steel scrap	16	---	6	3	7	---
Subtotal non-ferrous ores and scrap	0	---	---	0	0	---
4690 non-ferrous ores nec	0	---	---	0	0	---
Subtotal other non-metal. min.	1	---	---	0	0	---
4900 non-metal. min. nec	1	---	---	0	0	---
Total primary manufactured goods	27	---	---	21	6	---
Subtotal paper products	3	---	---	3	0	---
5190 paper products nec	3	---	---	3	0	---
Subtotal lime, cement and glass	10	---	---	9	1	---
5220 cement & concrete	4	---	---	4	0	---
5240 glass & glass prod.	4	---	---	4	0	---
5290 misc. mineral prod.	2	---	---	1	1	---
Subtotal primary iron and steel products	0	---	---	0	0	---
5370 i&s pipe & tube	0	---	---	0	0	---
Subtotal primary non-ferrous metal products	14	---	---	9	4	---
5480 fab. metal products	14	---	---	9	4	---
Subtotal primary wood products	0	---	---	0	0	---
5540 primary wood prod.	0	---	---	0	0	---
Total food and farm products	64	---	---	36	28	---
Subtotal fish	21	---	---	7	14	---
6134 fish (not shellfish)	20	---	---	7	13	---
6136 shellfish	1	---	---	0	1	---
Subtotal vegetable products	0	---	---	0	0	---
6654 vegetables & prod.	0	---	---	0	0	---
Subtotal processed grain and animal feed	1	---	---	0	1	---
6781 hay & fodder	0	---	---	---	0	---
6782 animal feed, prep.	1	---	---	0	1	---
Subtotal other agricultural products	42	---	---	29	14	---
6811 meat, fresh, frozen	0	---	---	0	0	---
6835 fish, prepared	7	---	---	1	7	---
6858 fruit juices	0	---	---	0	0	---
6885 alcoholic beverages	4	---	---	3	0	---
6887 groceries	10	---	---	5	5	---
6888 water & ice	0	---	---	0	0	---
6889 food products nec	21	---	---	19	2	---
Total all manufactured equipment, machinery and products	97	5	0	55	36	1
7110 machinery (not elec)	24	---	0	14	10	0
7120 electrical machinery	3	---	---	2	1	---
7210 vehicles & parts	8	---	---	4	5	---
7230 ships & boats	2	---	0	1	1	---
7400 manufac. wood prod.	8	---	---	4	5	---
7500 textile products	0	---	---	0	0	---
7600 rubber & plastic pr.	1	---	---	0	0	---
7900 manufac. prod. nec	52	5	0	30	15	0

*Includes 1 (x1000) tons of foreign outbound in-transits.

WRANGELL NARROWS, AK

Section Included: Entire 24 mile long waterway. Controlling Depth: 26 feet in the anchorage basin and 24 feet in the authorized channel with exception of the area near Colorado Reef where a depth of 21.6 feet exists. Project Depth: 27 feet through Petersburg Bar; 26 feet in anchorage basin, vicinity of mile 14; all other, 24 feet. All depths refer to mlw.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	739	1991	714	1994	547	1997	496
1989	939	1992	718	1995	544		
1990	858	1993	569	1996	473		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Domestic							
		Coastwise		Internal				Through	
		Through		Inbound		Outbound		Through	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	496	27	50	43	2	6	9	298	60
Total petroleum and petroleum products	155	20	2	20	2	4	0	104	3
Subtotal petroleum products	155	20	2	20	2	4	0	104	3
2211 gasoline	44	5	1	5	0	1	0	31	2
2330 distillate fuel oil	105	15	2	15	1	3	0	68	1
2340 residual fuel oil	1	—	—	—	—	—	—	1	—
2350 lube oil & greases	2	0	—	1	—	—	—	1	0
2430 asphalt, tar & pitch	1	—	—	—	—	—	—	1	0
2640 liquid natural gas	1	—	—	—	—	—	—	1	0
2990 petro. products nec	1	—	—	0	—	0	—	1	—
Total chemicals and related products	11	0	—	1	—	—	—	10	0
Subtotal fertilizers	1	0	—	0	—	—	—	1	0
3110 nitrogenous fert.	1	0	—	0	—	—	—	1	0
3190 fert. & mixes nec	0	—	—	—	—	—	—	0	—
Subtotal other chemicals and related products	11	0	—	1	—	—	—	9	0
3275 inorg. elem., oxides, & halogen salts	0	—	—	—	—	—	—	0	—
3276 metallic salts	0	—	—	—	—	—	—	0	—
3282 pigments & paints	2	0	—	0	—	—	—	1	—
3286 plastics	2	—	—	0	—	—	—	2	0
3293 explosives	1	—	—	0	—	—	—	0	0
3299 chem. products nec	5	0	—	0	—	—	—	5	0
Total crude materials, inedible except fuels	88	1	47	1	—	0	0	17	22
Subtotal forest products, wood and chips	75	1	47	1	—	0	0	15	11
4150 fuel wood	1	1	—	0	—	—	0	—	0
4161 wood chips	0	—	—	—	—	—	—	0	—
4170 wood in the rough	65	—	47	1	—	—	—	6	11
4189 lumber	8	—	—	1	—	0	—	7	0
4190 forest products nec	1	—	—	—	—	—	—	1	—
Subtotal pulp and waste paper	0	—	—	—	—	—	—	—	0
4225 pulp & waste paper	0	—	—	—	—	—	—	—	0
Subtotal soil, sand, gravel, rock and stone	0	—	—	—	—	—	—	0	0
4331 sand & gravel	0	—	—	—	—	—	—	0	0
4338 soil & fill dirt	0	—	—	—	—	—	—	—	0
Subtotal iron ore and scrap	11	—	—	—	—	—	—	1	10
4420 iron & steel scrap	11	—	—	—	—	—	—	1	10

WRANGELL NARROWS, AK
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Domestic							
		Coastwise		Internal				Through	
		Through		Inbound		Outbound		Through	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Subtotal other non-metal. min.	1	---	---	0	---	0	---	1	---
4900 non-metal. min. nec	1	---	---	0	---	0	---	1	---
Total primary manufactured goods	44	1	0	4	0	0	0	38	1
Subtotal paper products	6	0	---	1	0	---	---	5	0
5110 newsprint	0	---	---	---	---	---	---	---	0
5190 paper products nec	6	0	---	1	0	---	---	5	0
Subtotal lime, cement and glass	13	0	---	0	---	0	---	13	0
5220 cement & concrete	6	0	---	---	---	---	---	6	---
5240 glass & glass prod.	1	---	---	0	---	---	---	1	0
5290 misc. mineral prod.	6	0	---	0	---	0	---	5	0
Subtotal primary iron and steel products	0	---	---	0	---	---	0	0	---
5370 i&s pipe & tube	0	---	---	0	---	---	0	0	---
Subtotal primary non-ferrous metal products	24	1	0	3	0	0	0	20	0
5480 fab. metal products	24	1	0	3	0	0	0	20	0
Subtotal primary wood products	0	---	---	---	---	---	---	0	0
5540 primary wood prod.	0	---	---	---	---	---	---	0	0
Total food and farm products	60	0	0	3	0	0	6	32	18
Subtotal fish	11	---	0	0	0	---	2	0	8
6134 fish (not shellfish)	9	---	0	0	0	---	2	0	6
6136 shellfish	2	---	---	0	---	---	0	0	2
Subtotal vegetable products	0	---	---	0	---	---	---	0	---
6654 vegetables & prod.	0	---	---	0	---	---	---	0	---
Subtotal processed grain and animal feed	0	---	---	---	---	---	---	0	---
6781 hay & fodder	0	---	---	---	---	---	---	0	---
6782 animal feed, prep.	0	---	---	---	---	---	---	0	---
Subtotal other agricultural products	50	0	---	3	0	0	4	31	10
6811 meat, fresh, frozen	0	---	---	0	---	---	---	0	0
6835 fish, prepared	7	---	---	---	---	---	4	---	3
6858 fruit juices	0	---	---	0	---	---	---	0	---
6885 alcoholic beverages	11	---	---	1	---	---	---	6	3
6887 groceries	17	0	---	1	---	0	---	15	0
6888 water & ice	1	---	---	---	---	---	---	0	1
6889 food products nec	13	0	---	0	0	---	---	10	3
6899 farm products nec	0	---	---	---	---	---	---	0	---
Total all manufactured equipment, machinery and products	137	4	1	14	1	1	2	98	16
7110 machinery (not elec)	18	0	1	1	0	0	1	10	6
7120 electrical machinery	8	0	---	2	---	0	0	6	0
7210 vehicles & parts	6	0	0	0	0	0	0	4	1
7230 ships & boats	1	0	---	0	0	0	0	0	0
7400 manufac. wood prod.	9	0	---	1	---	0	---	8	0
7500 textile products	3	0	---	0	---	---	---	2	0
7600 rubber & plastic pr.	1	0	---	---	---	---	---	1	0
7900 manufac. prod. nec	91	4	0	10	1	0	1	67	9

WRANGELL NARROWS, AK
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Domestic							
		Coastwise		Internal				Through	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total waste and scrap nec	0	---	---	---	---	---	---	---	0
8900 waste and scrap nec	0	---	---	---	---	---	---	---	0
Ton-miles (x1000)	15,979	654	1,744	967	5	9	192	10,401	2,007
Tons All Traffic (x1000)				496					
Ton-miles All Traffic (x1000)				15,988					

JUNEAU HARBOR, AK

Section Included: The northside of Gastineau Channel including Theaurora Basin small boat harbor. The city dock facility has a 200 foot sea plane and medium draft dock and a 500 foot commercial dock with a 40 foot depth. Three area small boat harbors accomodate 2,700 small boats and have water depths of 12 & 14 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	395	1991	179	1994	222	1997	583
1989	210	1992	163	1995	192		
1990	157	1993	193	1996	465		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign Exports*	Canadian Exports	Domestic				
				Total	Coastwise		Internal	
					Receipts	Shipments	Inbound Upbound	Outbound Downbnd
Total, all commodities	582	293	22	267	11	2	165	89
Total petroleum and petroleum products	63	---	---	63	9	1	51	3
Subtotal petroleum products	63	---	---	63	9	1	51	3
2211 gasoline	26	---	---	26	4	1	19	2
2330 distillate fuel oil	32	---	---	32	3	0	28	1
2340 residual fuel oil	3	---	---	3	2	---	0	---
2350 lube oil & greases	0	---	---	0	---	---	0	0
2430 asphalt, tar & pitch	1	---	---	1	---	---	1	---
2640 liquid natural gas	1	---	---	1	---	---	1	0
2990 petro. products nec	0	---	---	0	---	---	0	---
Total chemicals and related products	2	0	---	2	---	---	2	0
Subtotal fertilizers	0	---	---	0	---	---	0	---
3110 nitrogenous fert.	0	---	---	0	---	---	0	---
3190 fert. & mixes nec	0	---	---	0	---	---	0	---
Subtotal other chemicals and related products	2	0	---	2	---	---	2	0
3275 inorg. elem. oxides, & halogen salts	0	---	---	0	---	---	0	---
3276 metallic salts	0	---	---	0	---	---	0	---
3282 pigments & paints	1	---	---	1	---	---	1	0
3286 plastics	1	0	---	1	---	---	1	0
3293 explosives	0	---	---	0	---	---	0	---
3299 chem. products nec	1	---	---	1	---	---	1	0
Total crude materials, inedible except fuels	368	292	22	54	1	---	14	39
Subtotal forest products, wood and chips	248	215	16	17	---	---	10	8
4150 fuel wood	0	---	---	0	---	---	---	0
4161 wood chips	1	---	1	0	---	---	0	---
4170 wood in the rough	242	215	15	12	---	---	5	7
4189 lumber	4	0	---	4	---	---	4	0
4190 forest products nec	1	---	---	1	---	---	1	---
Subtotal pulp and waste paper	0	---	---	0	---	---	---	0
4225 pulp & waste paper	0	---	---	0	---	---	---	0
Subtotal soil, sand, gravel, rock and stone	26	---	---	26	---	---	0	26
4331 sand & gravel	26	---	---	26	---	---	0	26
4338 soil & fill dirt	0	---	---	0	---	---	---	0
Subtotal iron ore and scrap	9	---	---	9	1	---	4	5
4420 iron & steel scrap	9	---	---	9	1	---	4	5
Subtotal non-ferrous ores and scrap	83	77	6	---	---	---	---	---
4690 non-ferrous ores nec	83	77	6	---	---	---	---	---

JUNEAU HARBOR, AK
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign	Canadian	Domestic				
		Exports*	Exports	Total	Coastwise		Internal	
				Receipts	Shipments	Inbound Upbound	Outbound Downbnd	
Subtotal other non-metal. min.	0	---	---	0	---	---	0	---
4900 non-metal. min. nec	0	---	---	0	---	---	0	---
Total primary manufactured goods	25	0	---	25	0	0	20	5
Subtotal paper products	2	---	---	2	0	---	2	0
5110 newsprint	0	---	---	0	---	---	---	0
5190 paper products nec	2	---	---	2	0	---	2	0
Subtotal lime, cement and glass	5	0	---	5	---	---	4	1
5220 cement & concrete	1	---	---	1	---	---	0	0
5240 glass & glass prod.	0	0	---	0	---	---	0	0
5290 misc. mineral prod.	4	---	---	4	---	---	4	0
Subtotal primary iron and steel products	1	---	---	1	---	---	---	1
5370 i&s pipe & tube	1	---	---	1	---	---	---	1
Subtotal primary non-ferrous metal products	17	---	---	17	---	0	14	3
5480 fab. metal products	17	---	---	17	---	0	14	3
Subtotal primary wood products	0	---	---	0	---	---	0	---
5540 primary wood prod.	0	---	---	0	---	---	0	---
Total food and farm products	26	1	---	25	---	0	18	8
Subtotal fish	1	1	---	0	---	0	---	0
6134 fish (not shellfish)	1	1	---	0	---	0	---	0
6136 shellfish	0	---	---	0	---	---	---	0
Subtotal processed grain and animal feed	0	0	---	0	---	---	0	---
6781 hay & fodder	0	---	---	0	---	---	0	---
6782 animal feed, prep.	0	0	---	0	---	---	0	---
Subtotal other agricultural products	25	0	---	25	---	---	17	7
6811 meat, fresh, frozen	0	---	---	0	---	---	---	0
6835 fish, prepared	0	---	---	0	---	---	---	0
6885 alcoholic beverages	7	---	---	7	---	---	4	3
6887 groceries	11	---	---	11	---	---	11	0
6888 water & ice	2	---	---	2	---	---	0	1
6889 food products nec	5	0	---	5	---	---	3	2
6899 farm products nec	0	---	---	0	---	---	0	---
Total all manufactured equipment, machinery and products	97	---	---	97	1	1	61	34
7110 machinery (not elec)	40	---	---	40	1	1	13	25
7120 electrical machinery	2	---	---	2	---	---	2	0
7210 vehicles & parts	6	---	---	6	0	0	4	1
7230 ships & boats	0	---	---	0	---	---	0	0
7400 manufac. wood prod.	5	---	---	5	---	---	5	0
7500 textile products	2	---	---	2	---	---	2	0
7900 manufac. prod. nec	42	---	---	42	1	0	34	7
Total waste and scrap nec	0	---	---	0	---	---	---	0
8900 waste and scrap nec	0	---	---	0	---	---	---	0

*Includes 0 (x1000) tons of foreign outbound in-transits.

SKAGWAY HARBOR, AK

Section Included: Entire waterfront of Skagway Harbor. Controlling Depth: Main harbor, adequate. Depth alongside the White Pass and Yukon Railway Wharf, 19.9 feet; 10.9 feet in small boat basin; 42.5 feet at Pacific and Arctic Railway Navigation Company Ore Terminal; 20 feet at Alaska State Ferry Dock. Project Depth: Main harbor, 30 feet along southerly 700 feet of face of dock and 20 feet for the next 100 feet; small boat basin, 8 feet for federal portion, 12 feet maintained by local interests. All depths refer to mllw.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	1,441	1991	1,290	1994	128	1997	258
1989	1,445	1992	1,949	1995	265		
1990	1,576	1993	660	1996	650		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign	Canadian	Domestic			
		Exports	Imports	Total	Coastwise Receipts	Internal Receipts	Shipments
Total, all commodities	258	130	88	41	8	23	10
Total petroleum and petroleum products	102	—	88	14	8	4	2
Subtotal petroleum products	102	—	88	14	8	4	2
2211 gasoline	27	—	24	3	1	1	1
2221 kerosene	0	—	0	—	—	—	—
2330 distillate fuel oil	74	—	63	11	7	2	2
2350 lube oil & greases	0	—	—	0	—	0	—
2990 petro. products nec	0	—	—	0	—	0	—
Total chemicals and related products	0	—	—	0	—	0	—
Subtotal other chemicals and related products	0	—	—	0	—	0	—
3293 explosives	0	—	—	0	—	0	—
3299 chem. products nec	0	—	—	0	—	0	—
Total crude materials, inedible except fuels	137	130	—	7	—	1	6
Subtotal forest products, wood and chips	1	—	—	1	—	1	0
4170 wood in the rough	0	—	—	0	—	0	0
4189 lumber	1	—	—	1	—	1	—
Subtotal soil, sand, gravel, rock and stone	0	—	—	0	—	0	—
4331 sand & gravel	0	—	—	0	—	0	—
Subtotal iron ore and scrap	6	—	—	6	—	—	6
4420 iron & steel scrap	6	—	—	6	—	—	6
Subtotal non-ferrous ores and scrap	130	130	—	—	—	—	—
4690 non-ferrous ores nec	130	130	—	—	—	—	—
Total primary manufactured goods	5	—	—	5	—	3	2
Subtotal paper products	0	—	—	0	—	0	—
5190 paper products nec	0	—	—	0	—	0	—
Subtotal lime, cement and glass	2	—	—	2	—	2	—
5220 cement & concrete	1	—	—	1	—	1	—
5290 misc. mineral prod.	1	—	—	1	—	1	—
Subtotal primary non-ferrous metal products	3	—	—	3	—	1	2
5480 fab. metal products	3	—	—	3	—	1	2
Total food and farm products	3	—	—	3	—	3	0
Subtotal other agricultural products	3	—	—	3	—	3	0
6885 alcoholic beverages	2	—	—	2	—	2	—
6887 groceries	0	—	—	0	—	0	—
6889 food products nec	1	—	—	1	—	1	0
Total all manufactured equipment, machinery and products	11	—	—	11	—	11	0
7110 machinery (not elec)	1	—	—	1	—	1	0
7120 electrical machinery	1	—	—	1	—	1	—
7210 vehicles & parts	0	—	—	0	—	0	0
7230 ships & boats	0	—	—	0	—	0	—
7400 manufac. wood prod.	0	—	—	0	—	0	—
7900 manufac. prod. nec	9	—	—	9	—	9	0

VALDEZ HARBOR, AK

Section Included: Entire waterfront from Point of Land west of Ferry Terminal easterly to Alaska Hydrotrain Dock. Eastern part of Port Valdez from the Ferry Terminal on the north to the Trans-Alaska Pipeline Terminal on the south. Controlling Depth: 12 feet in the small basin. Project Depth: 12 feet, except 20 feet at Ferry Terminal, 50 feet off the City Dock, 75 feet off the Valdez Dock, and 0.0 at Sontag & Alaska Hydrotrain Facilities. All depths refer to mllw.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	107,145	1991	99,616	1994	85,096	1997	73,647
1989	95,436	1992	93,737	1995	80,955		
1990	95,953	1993	85,722	1996	77,116		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			Internal	
		Imports	Exports	Exports	Total	Coastwise		Shipments	Intraport
						Receipts	Shipments		
Total, all commodities	73,647	37	3,489	15	70,107	54	70,045	5	3
Total petroleum and petroleum products	73,627	37	3,485	—	70,106	53	70,045	5	3
Subtotal crude petroleum	73,244	—	3,485	—	69,759	—	69,759	—	—
2100 crude petroleum	73,244	—	3,485	—	69,759	—	69,759	—	—
Subtotal petroleum products	384	37	—	—	347	53	286	5	3
2211 gasoline	225	—	—	—	225	7	217	1	—
2221 kerosene	37	37	—	—	—	—	—	—	—
2330 distillate fuel oil	117	—	—	—	117	47	64	4	3
2990 petro. products nec	4	—	—	—	4	—	4	—	—
Total chemicals and related products	1	—	—	—	1	1	0	—	—
Subtotal fertilizers	1	—	—	—	1	1	0	—	—
3110 nitrogenous fert.	1	—	—	—	1	1	0	—	—
Subtotal other chemicals and related products	0	—	—	—	0	0	0	—	—
3293 explosives	0	—	—	—	0	0	0	—	—
Total crude materials, inedible except fuels	19	—	4	15	0	—	—	0	—
Subtotal forest products, wood and chips	19	—	4	15	0	—	—	0	—
4170 wood in the rough	19	—	4	15	0	—	—	0	—
4189 lumber	0	—	—	—	0	—	—	0	—
Total food and farm products	0	—	—	—	0	—	—	—	0
Subtotal other agricultural products	0	—	—	—	0	—	—	—	0
6887 groceries	0	—	—	—	0	—	—	—	0
Total all manufactured equipment, machinery and products	0	—	—	—	0	—	0	0	0
7110 machinery (not elec)	0	—	—	—	0	—	0	—	0
7210 vehicles & parts	0	—	—	—	0	—	—	0	—

SEWARD HARBOR, AK

Section Included: Alaska Railroad Dock, the Seward Boat Basin including the City Dock, and the Dry Bulk Terminal. Controlling Depth: 35 feet below mlw at the Railroad Dock; 15 feet in the 200 foot entrance channel to the boat basin and at the City Dock; 12.5 feet in the boat mooring area. The Dry Bulk Terminal has controlling depth of 58 feet mlw.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	920	1991	1,181	1994	961	1997	842
1989	703	1992	686	1995	928		
1990	846	1993	862	1996	877		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Domestic		
		Imports	Exports*	Total	Coastwise	
					Receipts	Shipments
Total, all commodities	842	12	810	21	3	17
Total coal	740	---	740	---	---	---
1100 coal lignite	740	---	740	---	---	---
Total chemicals and related products	20	---	20	---	---	---
Subtotal fertilizers	20	---	20	---	---	---
3110 nitrogenous fert.	20	---	20	---	---	---
Subtotal other chemicals and related products	0	---	0	---	---	---
3286 plastics	0	---	0	---	---	---
Total crude materials, inedible except fuels	32	---	17	16	0	15
Subtotal forest products, wood and chips	17	---	16	0	0	---
4170 wood in the rough	16	---	16	---	---	---
4189 lumber	1	---	0	0	0	---
4190 forest products nec	0	---	---	0	0	---
Subtotal pulp and waste paper	0	---	0	---	---	---
4225 pulp & waste paper	0	---	0	---	---	---
Subtotal soil, sand, gravel, rock and stone	15	---	---	15	---	15
4335 waterway improv. mat	15	---	---	15	---	15
Total primary manufactured goods	15	12	---	3	2	1
Subtotal lime, cement and glass	1	---	---	1	1	---
5240 glass & glass prod.	0	---	---	0	0	---
5290 misc. mineral prod.	1	---	---	1	1	---
Subtotal primary iron and steel products	11	11	---	---	---	---
5370 i&s pipe & tube	11	11	---	---	---	---
Subtotal primary non-ferrous metal products	2	0	---	2	1	1
5480 fab. metal products	2	0	---	2	1	1
Subtotal primary wood products	0	---	---	0	0	---
5540 primary wood prod.	0	---	---	0	0	---
Total food and farm products	33	---	33	---	---	---
Subtotal fish	33	---	33	---	---	---
6134 fish (not shellfish)	33	---	33	---	---	---
6136 shellfish	0	---	0	---	---	---
Subtotal other agricultural products	0	---	0	---	---	---
6811 meat, fresh, frozen	0	---	0	---	---	---
6835 fish, prepared	0	---	0	---	---	---
Total all manufactured equipment, machinery and products	2	---	0	2	0	2
7110 machinery (not elec)	1	---	---	1	0	1
7120 electrical machinery	0	---	0	---	---	---
7210 vehicles & parts	0	---	---	0	0	0
7230 ships & boats	0	---	---	0	0	---
7400 manufac. wood prod.	0	---	---	0	0	---
7900 manufac. prod. nec	0	---	0	0	0	0

*Includes 0 (x1000) tons of foreign outbound in-transits.

HOMER, AK

Section Included: The northside of Kachemak Bay including the entire Homer Spit and small boat harbor. The commercial dock facility provides 300 feet of dock space with water depth ranging from 20 to 40 feet. The 750 boat small boat harbor has a depth ranging from 20 feet to 15 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	66	1991	82	1994	377	1997	302
1989	243	1992	287	1995	501		
1990	119	1993	472	1996	397		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign Exports*	Canadian Exports	Domestic				
				Total	Coastwise		Internal	
					Receipts	Shipments	Receipts	Shipments
Total, all commodities	302	254	8	40	6	1	32	2
Total petroleum and petroleum products	36	5	—	30	5	0	25	0
Subtotal petroleum products	36	5	—	30	5	0	25	0
2211 gasoline	17	5	—	12	1	—	11	0
2330 distillate fuel oil	16	—	—	16	4	0	12	0
2340 residual fuel oil	3	—	—	3	—	—	3	—
2640 liquid natural gas	0	—	—	0	—	0	0	0
Total chemicals and related products	3	3	—	0	—	0	—	0
Subtotal fertilizers	0	—	—	0	—	—	—	0
3190 fert. & mixes nec	0	—	—	0	—	—	—	0
Subtotal other chemicals and related products	3	3	—	0	—	0	—	0
3271 sulphur (liquid)	3	3	—	—	—	—	—	—
3275 inorg. elem. oxides, & halogen salts	0	—	—	0	—	—	—	0
3282 pigments & paints	0	—	—	0	—	—	—	0
3286 plastics	0	0	—	0	—	0	—	—
3293 explosives	0	—	—	0	—	—	—	0
Total crude materials, inedible except fuels	229	215	8	6	0	0	6	0
Subtotal forest products, wood and chips	228	215	8	6	0	0	6	0
4150 fuel wood	69	69	—	—	—	—	—	—
4161 wood chips	62	62	—	—	—	—	—	—
4170 wood in the rough	97	84	8	6	—	—	6	—
4189 lumber	0	0	—	0	0	0	—	0
Subtotal soil, sand, gravel, rock and stone	0	—	—	0	—	—	—	0
4331 sand & gravel	0	—	—	0	—	—	—	0
Subtotal other non-metal. min.	0	—	—	0	—	—	—	0
4900 non-metal. min. nec	0	—	—	0	—	—	—	0
Total primary manufactured goods	0	0	—	0	0	0	0	0
Subtotal paper products	0	0	—	—	—	—	—	—
5120 paper & paperboard	0	0	—	—	—	—	—	—
Subtotal lime, cement and glass	0	—	—	0	0	—	0	0
5220 cement & concrete	0	—	—	0	—	—	—	0
5240 glass & glass prod.	0	—	—	0	0	—	0	—
5290 misc. mineral prod.	0	—	—	0	—	—	—	0
Subtotal primary iron and steel products	0	—	—	0	—	0	—	0
5330 i&s plates & sheets	0	—	—	0	—	—	—	0
5370 i&s pipe & tube	0	—	—	0	—	0	—	—
Subtotal primary non-ferrous metal products	0	0	—	0	0	0	0	0
5480 fab. metal products	0	0	—	0	0	0	0	0
Subtotal primary wood products	0	—	—	0	—	—	—	0
5540 primary wood prod.	0	—	—	0	—	—	—	0
Total food and farm products	31	31	—	0	0	0	—	0
Subtotal fish	30	30	—	0	—	0	—	0
6134 fish (not shellfish)	29	29	—	0	—	0	—	0
6136 shellfish	1	1	—	—	—	—	—	—
Subtotal processed grain and animal feed	0	—	—	0	0	—	—	0
6782 animal feed, prep.	0	—	—	0	0	—	—	0
Subtotal other agricultural products	1	1	—	0	0	0	—	—
6835 fish, prepared	1	1	—	—	—	—	—	—
6887 groceries	0	—	—	0	0	—	—	—
6888 water & ice	0	—	—	0	0	0	—	—
Total all manufactured equipment, machinery and products	3	0	—	3	0	0	2	1
7110 machinery (not elec)	2	—	—	2	0	0	1	1

HOMER, AK
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign	Canadian	Domestic				
		Exports*	Exports	Total	Coastwise		Internal	
					Receipts	Shipments	Receipts	Shipments
7120 electrical machinery	0	---	---	0	---	---	0	0
7210 vehicles & parts	0	---	---	0	0	0	0	0
7230 ships & boats	0	---	---	0	0	---	0	---
7400 manufac. wood prod.	0	---	---	0	---	---	---	0
7500 textile products	0	---	---	0	---	---	---	0
7600 rubber & plastic pr.	0	---	---	0	---	---	0	0
7900 manufac. prod. nec	0	0	---	0	0	0	0	0
Total waste and scrap nec	0	---	---	0	---	---	0	---
8900 waste and scrap nec	0	---	---	0	---	---	0	---

*Includes 0 (x1000) tons of foreign outbound in-transits.

ANCHORAGE, AK

Section Included: Knik Arm from the Municipal Terminal on the north to and including terminal facilities on Ship Creek. Controlling Depth: 35 feet off the face of the City Dock; the approach channel north of Fire Island, to Point Woronzof, 28.5 feet. Project Depth: 35 feet. All depths refer to mlw.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	2,294	1991	2,309	1994	2,559	1997	3,424
1989	2,253	1992	2,540	1995	3,222		
1990	1,706	1993	2,470	1996	3,401		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports*	Imports	Exports
Total, all commodities	1,045	402	623	9	12
Total coal	0	---	0	---	---
1100 coal lignite	0	---	0	---	---
Total petroleum and petroleum products	652	328	324	---	---
Subtotal petroleum products	652	328	324	---	---
2211 gasoline	18	18	---	---	---
2221 kerosene	310	310	---	---	---
2330 distillate fuel oil	41	---	41	---	---
2429 naphtha & solvents	242	---	242	---	---
2640 liquid natural gas	41	---	41	---	---
Total chemicals and related products	6	0	6	---	---
Subtotal fertilizers	6	---	6	---	---
3110 nitrogenous fert.	6	---	6	---	---
Subtotal other chemicals and related products	0	0	0	---	---
3219 other hydrocarbons	0	---	0	---	---
3230 carboxylic acids	0	0	---	---	---
3240 nitrogen func. comp.	0	0	---	---	---
3276 metallic salts	0	0	---	---	---
3286 plastics	0	0	---	---	---
Total crude materials, inedible except fuels	260	---	239	9	12
Subtotal forest products, wood and chips	140	---	140	---	---
4161 wood chips	22	---	22	---	---
4170 wood in the rough	118	---	118	---	---
4189 lumber	0	---	0	---	---
Subtotal soil, sand, gravel, rock and stone	1	---	1	---	---
4331 sand & gravel	1	---	1	---	---
Subtotal non-ferrous ores and scrap	110	---	97	---	12
4680 non-ferrous scrap	0	---	0	---	---
4690 non-ferrous ores nec	109	---	97	---	12
Subtotal other non-metal. min.	9	---	0	9	---
4900 non-metal. min. nec	9	---	0	9	---
Total primary manufactured goods	72	72	0	---	---
Subtotal paper products	0	0	---	---	---
5190 paper products nec	0	0	---	---	---
Subtotal lime, cement and glass	72	72	0	---	---
5220 cement & concrete	72	72	---	---	---
5240 glass & glass prod.	0	0	0	---	---
Subtotal primary iron and steel products	0	0	---	---	---
5390 primary i&s nec	0	0	---	---	---
Subtotal primary non-ferrous metal products	0	0	0	---	---
5480 fab. metal products	0	0	0	---	---
Total food and farm products	55	1	54	---	0
Subtotal fish	50	1	49	---	0
6134 fish (not shellfish)	48	---	48	---	0
6136 shellfish	2	1	1	---	---
Subtotal vegetable products	0	---	0	---	---
6653 vegetable oils	0	---	0	---	---
Subtotal processed grain and animal feed	5	---	5	---	---
6782 animal feed, prep.	5	---	5	---	---

ANCHORAGE, AK
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports*	Imports	Exports
Subtotal other agricultural products	0	0	0	---	---
6835 fish, prepared	0	---	0	---	---
6889 food products nec	0	0	---	---	---
Total all manufactured equipment, machinery and products	0	0	0	---	---
7110 machinery (not elec)	0	0	---	---	---
7120 electrical machinery	0	0	---	---	---
7500 textile products	0	0	---	---	---
7600 rubber & plastic pr.	0	0	0	---	---
7900 manufac. prod. nec	0	0	0	---	---
Total unknown or not elsewhere classified	0	---	0	---	---
9900 unknown or nec	0	---	0	---	---

Commodity	Total	Domestic			
		Coastwise		Internal	
		Receipts	Shipments	Receipts	Shipments
Total, all commodities	2,379	1,964	395	1	18
Total petroleum and petroleum products	741	498	224	1	18
Subtotal petroleum products	741	498	224	1	18
2211 gasoline	571	451	111	1	8
2330 distillate fuel oil	136	30	103	---	2
2340 residual fuel oil	13	---	10	---	3
2350 lube oil & greases	15	15	---	---	---
2429 naphtha & solvents	5	---	---	---	5
2990 petro. products nec	2	2	0	---	---
Total chemicals and related products	34	24	10	---	---
Subtotal fertilizers	1	1	1	---	---
3110 nitrogenous fert.	1	1	1	---	---
Subtotal other chemicals and related products	32	23	9	---	---
3220 alcohols	5	5	---	---	---
3276 metallic salts	0	0	---	---	---
3286 plastics	1	1	---	---	---
3299 chem. products nec	26	17	9	---	---
Total crude materials, inedible except fuels	36	26	10	---	---
Subtotal forest products, wood and chips	26	25	0	---	---
4170 wood in the rough	0	---	0	---	---
4189 lumber	25	24	0	---	---
4190 forest products nec	1	1	---	---	---
Subtotal soil, sand, gravel, rock and stone	0	0	---	---	---
4331 sand & gravel	0	0	---	---	---
Subtotal iron ore and scrap	10	---	10	---	---
4420 iron & steel scrap	10	---	10	---	---
Subtotal sulphur, clay and salt	1	1	---	---	---
4782 clay & refrac. mat.	1	1	---	---	---
Subtotal other non-metal. min.	0	0	0	---	---
4900 non-metal. min. nec	0	0	0	---	---
Total primary manufactured goods	119	113	7	---	---
Subtotal paper products	10	10	0	---	---
5190 paper products nec	10	10	0	---	---
Subtotal lime, cement and glass	50	48	1	---	---
5210 lime	0	0	0	---	---
5220 cement & concrete	23	23	---	---	---
5240 glass & glass prod.	1	1	---	---	---
5290 misc. mineral prod.	26	25	1	---	---
Subtotal primary iron and steel products	0	0	0	---	---
5360 i&s bars & shapes	0	0	---	---	---
5370 i&s pipe & tube	0	---	0	---	---
Subtotal primary non-ferrous metal products	52	47	5	---	---
5480 fab. metal products	52	47	5	---	---
Subtotal primary wood products	7	7	---	---	---
5540 primary wood prod.	7	7	---	---	---
Total food and farm products	945	922	24	---	---
Subtotal fish	23	---	23	---	---
6134 fish (not shellfish)	23	---	23	---	---
Subtotal other agricultural products	922	922	1	---	---
6835 fish, prepared	0	---	0	---	---
6839 animals & prod. nec	582	582	0	---	---
6885 alcoholic beverages	0	---	0	---	---
6887 groceries	339	339	---	---	---
Total all manufactured equipment, machinery and products	472	357	115	0	0
7110 machinery (not elec)	5	2	3	0	0
7120 electrical machinery	0	0	---	---	---
7210 vehicles & parts	57	38	19	---	---
7220 aircraft & parts	0	---	0	---	---
7230 ships & boats	0	0	0	---	---
7300 ordnance & access.	0	0	---	---	---
7400 manufac. wood prod.	16	15	1	---	---
7900 manufac. prod. nec	394	302	92	---	---
Total unknown or not elsewhere classified	31	25	5	---	---
9900 unknown or nec	31	25	5	---	---

ANCHORAGE, AK
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Domestic			
		Coastwise		Internal	
		Receipts	Shipments	Receipts	Shipments

*Includes 0 (x1000) tons of foreign outbound in-transits.

KODIAK HARBOR, AK

Section Included: Channel 200 feet wide between Near Island and Kodiak Island to the King Crab, Inc. Dock in St. Paul Harbor including the boat basin. Controlling Depth: about 25 feet in the channel and 12 feet in the boat basin; 30 feet in St. Paul Harbor.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	287	1991	571	1994	569	1997	853
1989	298	1992	490	1995	696		
1990	443	1993	525	1996	766		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign Exports*	Domestic		
			Total	Coastwise	
				Receipts	Shipments
Total, all commodities	853	445	408	170	238
Total petroleum and petroleum products	125	---	125	115	11
Subtotal petroleum products	125	---	125	115	11
2211 gasoline	60	---	60	57	3
2330 distillate fuel oil	60	---	60	53	7
2340 residual fuel oil	5	---	5	5	---
2640 liquid natural gas	0	---	0	0	---
Total chemicals and related products	2	0	2	0	1
Subtotal other chemicals and related products	2	0	2	0	1
3285 perfumes & cleansers	0	0	---	---	---
3298 wood & resin chem.	0	---	0	---	0
3299 chem. products nec	1	---	1	0	1
Total crude materials, inedible except fuels	409	394	16	15	0
Subtotal forest products, wood and chips	14	14	0	---	0
4150 fuel wood	0	---	0	---	0
4170 wood in the rough	14	14	---	---	---
4189 lumber	0	0	0	---	0
Subtotal pulp and waste paper	0	---	0	---	0
4225 pulp & waste paper	0	---	0	---	0
Subtotal soil, sand, gravel, rock and stone	15	---	15	15	---
4335 waterway improv. mat	15	---	15	15	---
Subtotal non-ferrous ores and scrap	380	380	---	---	---
4690 non-ferrous ores nec	380	380	---	---	---
Subtotal other non-metal. min.	0	---	0	0	---
4900 non-metal. min. nec	0	---	0	0	---
Total primary manufactured goods	3	0	3	2	1
Subtotal paper products	0	---	0	0	0
5120 paper & paperboard	0	---	0	---	0
5190 paper products nec	0	---	0	0	---
Subtotal lime, cement and glass	0	0	0	---	0
5240 glass & glass prod.	0	0	---	---	---
5290 misc. mineral prod.	0	---	0	---	0
Subtotal primary non-ferrous metal products	3	---	3	2	1
5429 smelted prod. nec	0	---	0	0	---
5480 fab. metal products	3	---	3	2	1
Total food and farm products	243	51	192	26	166
Subtotal fish	56	49	7	3	4
6134 fish (not shellfish)	56	49	7	3	4
6136 shellfish	0	0	0	---	0
Subtotal grain	1	---	1	---	1
6442 rice	1	---	1	---	1
Subtotal vegetable products	1	0	1	0	1
6653 vegetable oils	0	0	---	---	---
6654 vegetables & prod.	1	---	1	0	1
Subtotal processed grain and animal feed	2	2	0	---	0
6746 wheat flour	0	---	0	---	0
6782 animal feed, prep.	2	2	0	---	0
Subtotal other agricultural products	182	0	182	23	159
6811 meat, fresh, frozen	0	---	0	0	0
6817 meat, prepared	1	---	1	---	1
6822 dairy products	0	---	0	---	0
6835 fish, prepared	1	0	1	1	---
6839 animals & prod. nec	172	---	172	22	150
6857 fruit & nuts nec	5	---	5	---	5
6858 fruit juices	0	---	0	0	---
6885 alcoholic beverages	1	---	1	---	1
6889 food products nec	1	0	1	---	1
6891 tobacco & products	0	---	0	---	0
6899 farm products nec	1	---	1	---	1

KODIAK HARBOR, AK
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Domestic		
		Exports*	Imports	Total	Coastwise	
					Receipts	Shipments
Total all manufactured equipment, machinery and products	64	---	---	64	11	53
7110 machinery (not elec)	0	---	---	0	0	0
7210 vehicles & parts	0	---	---	0	0	0
7230 ships & boats	0	---	---	0	---	0
7300 ordnance & access.	0	---	---	0	0	---
7400 manufac. wood prod.	0	---	---	0	0	0
7900 manufac. prod. nec	64	---	---	64	11	52
Total unknown or not elsewhere classified	7	0	---	7	1	7
9900 unknown or nec	7	0	---	7	1	7

*Includes 0 (x1000) tons of foreign outbound in-transits.

UNALASKA BAY AND ISLAND, AK

Section Included: Entire harbor. Controlling Depth: 25 feet in entrance channel at mean lower low water. Project Depth: 25 feet at mean lower low water.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	388	1991	1,205	1994	861	1997	1,275
1989	735	1992	1,179	1995	743		
1990	945	1993	1,035	1996	939		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian Imports	Domestic			
		Imports	Exports*		Total	Coastwise		Internal Intraport
				Receipts		Shipments		
Total, all commodities	1,275	105	601	75	495	249	213	32
Total petroleum and petroleum products	436	103	83	17	233	168	34	32
Subtotal petroleum products	436	103	83	17	233	168	34	32
2211 gasoline	44	---	---	3	41	28	8	5
2221 kerosene	108	103	---	5	---	---	---	---
2330 distillate fuel oil	185	---	---	2	184	140	21	23
2340 residual fuel oil	9	---	---	---	9	---	5	4
2350 lube oil & greases	0	0	0	---	0	0	---	0
2430 asphalt, tar & pitch	1	---	---	1	---	---	---	---
2640 liquid natural gas	91	---	83	8	---	---	---	---
2990 petro. products nec	0	---	---	---	0	0	0	---
Total chemicals and related products	172	0	148	23	0	0	0	---
Subtotal fertilizers	56	---	50	6	---	---	---	---
3110 nitrogenous fert.	51	---	50	1	---	---	---	---
3130 potassic fert.	5	---	---	5	---	---	---	---
3190 fert. & mixes nec	0	---	0	---	---	---	---	---
Subtotal other chemicals and related products	116	0	98	17	0	0	0	---
3220 alcohols	17	---	---	17	---	---	---	---
3230 carboxylic acids	0	---	0	---	---	---	---	---
3240 nitrogen func. comp.	0	---	0	---	---	---	---	---
3260 organic comp. nec	0	0	0	---	---	---	---	---
3273 ammonia	97	---	97	---	---	---	---	---
3282 pigments & paints	0	---	0	---	---	---	---	---
3284 medicines	0	---	0	---	---	---	---	---
3285 perfumes & cleansers	0	---	0	---	0	0	---	---
3286 plastics	0	0	0	---	0	---	0	---
3291 pesticides	0	---	0	---	---	---	---	---
3292 starches, gluten, glue	0	---	0	---	---	---	---	---
3293 explosives	1	---	---	1	---	---	---	---
3297 chemical additives	0	---	0	---	---	---	---	---
3299 chem. products nec	0	0	0	---	0	0	0	---
Total crude materials, inedible except fuels	157	0	116	10	31	1	30	0
Subtotal forest products, wood and chips	118	---	116	2	0	0	---	---
4150 fuel wood	9	---	9	---	---	---	---	---
4170 wood in the rough	106	---	106	0	---	---	---	---
4189 lumber	2	---	0	2	0	0	---	---
Subtotal pulp and waste paper	0	---	---	0	---	---	---	---
4225 pulp & waste paper	0	---	---	0	---	---	---	---
Subtotal soil, sand, gravel, rock and stone	37	---	---	8	30	---	30	---
4331 sand & gravel	37	---	---	8	30	---	30	---

UNALASKA BAY AND ISLAND, AK
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			
		Imports	Exports*	Imports	Total	Coastwise		Internal
					Receipts	Shipments	Intraport	
Subtotal iron ore and scrap	0	---	0	---	---	---	---	---
4420 iron & steel scrap	0	---	0	---	---	---	---	---
Subtotal non-ferrous ores and scrap	0	0	---	---	---	---	---	---
4690 non-ferrous ores nec	0	0	---	---	---	---	---	---
Subtotal sulphur, clay and salt	0	---	0	---	---	---	---	---
4782 clay & refrac. mat.	0	---	0	---	---	---	---	---
Subtotal slag	0	---	---	0	---	---	---	---
4860 slag	0	---	---	0	---	---	---	---
Subtotal other non-metal. min.	2	0	---	0	2	1	0	0
4900 non-metal. min. nec	2	0	---	0	2	1	0	0
Total primary manufactured goods	30	0	1	23	7	4	3	0
Subtotal paper products	3	0	0	---	2	2	0	0
5120 paper & paperboard	0	---	0	---	---	---	---	---
5190 paper products nec	2	0	0	---	2	2	0	0
Subtotal lime, cement and glass	8	---	0	8	0	0	---	---
5210 lime	8	---	---	8	---	---	---	---
5220 cement & concrete	1	---	---	1	---	---	---	---
5240 glass & glass prod.	0	---	0	---	---	---	---	---
5290 misc. mineral prod.	0	---	0	---	0	0	---	---
Subtotal primary iron and steel products	1	---	0	1	---	---	---	---
5330 i&s plates & sheets	1	---	0	1	---	---	---	---
5360 i&s bars & shapes	0	---	0	---	---	---	---	---
5370 i&s pipe & tube	0	---	---	0	---	---	---	---
Subtotal primary non-ferrous metal products	6	0	0	0	5	2	3	0
5422 aluminum	0	---	0	---	---	---	---	---
5480 fab. metal products	6	0	0	0	5	2	3	0
Subtotal primary wood products	12	---	---	12	---	---	---	---
5540 primary wood prod.	12	---	---	12	---	---	---	---
Total food and farm products	355	1	253	1	101	60	40	0
Subtotal fish	238	1	179	0	58	19	39	0
6134 fish (not shellfish)	207	---	167	0	40	6	33	0
6136 shellfish	31	1	12	---	18	13	5	---
Subtotal vegetable products	0	---	0	---	0	0	---	---
6653 vegetable oils	0	---	0	---	---	---	---	---
6654 vegetables & prod.	0	---	0	---	0	0	---	---
Subtotal processed grain and animal feed	62	---	60	1	0	---	---	0
6746 wheat flour	1	---	---	1	---	---	---	---
6781 hay & fodder	0	---	---	0	---	---	---	---
6782 animal feed, prep.	60	---	60	---	0	---	---	0
Subtotal other agricultural products	55	---	13	---	42	41	2	---
6811 meat, fresh, frozen	0	---	0	---	0	0	0	---
6822 dairy products	0	---	0	---	---	---	---	---
6835 fish, prepared	4	---	4	---	0	0	---	---
6838 tallow, animal oils	0	---	0	---	---	---	---	---
6839 animals & prod. nec	41	---	1	---	40	38	1	---
6857 fruit & nuts nec	0	---	0	---	0	---	0	---
6858 fruit juices	0	---	---	---	0	0	---	---
6885 alcoholic beverages	0	---	0	---	0	0	0	---
6887 groceries	1	---	---	---	1	1	0	---
6888 water & ice	0	---	---	---	0	---	0	---
6889 food products nec	7	---	7	---	0	0	---	---
Total all manufactured equipment, machinery and products	123	0	1	1	122	15	106	0
7110 machinery (not elec)	1	0	0	0	0	0	---	0
7120 electrical machinery	0	0	0	---	0	---	0	---
7210 vehicles & parts	0	---	0	---	0	---	0	0
7230 ships & boats	0	---	---	0	0	0	---	---
7400 manufac. wood prod.	0	---	---	---	0	0	---	---
7500 textile products	0	0	0	---	0	0	---	---
7600 rubber & plastic pr.	0	0	0	0	0	0	---	---
7900 manufac. prod. nec	121	0	0	---	121	15	106	0
Total unknown or not elsewhere classified	1	---	---	0	1	1	---	---
9900 unknown or nec	1	---	---	0	1	1	---	---

*Includes 1 (x1000) tons of foreign outbound in-transits.

Other Harbors and Waterways 1997

Harbor or Waterway Project	Commodity	Thousand Short Tons	
BETHEL HARBOR, AK	2211 gasoline	21	
	2221 kerosene	0	
	2330 distillate fuel oil	2	
	2350 lube oil & greases	0	
	2640 liquid natural gas	0	
	2990 petro. products nec	0	
	3110 nitrogenous fert.	0	
	3190 fert. & mixes nec	0	
	3220 alcohols	0	
	3230 carboxylic acids	0	
	3275 inorg. elem.,oxides, & halogen salts	0	
	3276 metallic salts	0	
	3282 pigments & paints	0	
	3285 perfumes & cleansers	0	
	3286 plastics	0	
	4170 wood in the rough	4	
	4189 lumber	4	
	4331 sand & gravel	79	
	4782 clay & refrac. mat.	0	
	4900 non-metal. min. nec	0	
	5190 paper products nec	0	
	5220 cement & concrete	0	
	5240 glass & glass prod.	0	
	5290 misc. mineral prod.	4	
	5330 i&s plates & sheets	0	
	5360 i&s bars & shapes	0	
	5370 i&s pipe & tube	0	
	5480 fab. metal products	2	
	5540 primary wood prod.	1	
	6835 fish, prepared	0	
	6887 groceries	1	
	6888 water & ice	0	
	6889 food products nec	0	
	6899 farm products nec	0	
	7110 machinery (not elec)	12	
	7120 electrical machinery	0	
	7210 vehicles & parts	1	
	7230 ships & boats	0	
	7400 manufac. wood prod.	4	
	7500 textile products	0	
	7600 rubber & plastic pr.	0	
	7900 manufac. prod. nec	4	
		Total Tons(x1000)	137
	CORDOVA HARBOR, AK	2211 gasoline	10
		2330 distillate fuel oil	13
2340 residual fuel oil		2	
2640 liquid natural gas		0	
4170 wood in the rough		3	
4189 lumber		0	
4900 non-metal. min. nec		0	
5190 paper products nec		0	
5480 fab. metal products		0	
6134 fish (not shellfish)		4	
6654 vegetables & prod.		0	
6811 meat, fresh, frozen		0	
6858 fruit juices		0	
6887 groceries		0	
7110 machinery (not elec)		0	
7900 manufac. prod. nec	9		
9900 unknown or nec	0		
	Total Tons(x1000)	43	
CRAIG HARBOR, AK	2211 gasoline	6	
	2330 distillate fuel oil	4	
	2340 residual fuel oil	0	
	4189 lumber	0	
	4331 sand & gravel	1	
	5290 misc. mineral prod.	0	
	5480 fab. metal products	0	
	5540 primary wood prod.	0	
	6134 fish (not shellfish)	0	
	7110 machinery (not elec)	1	
7210 vehicles & parts	0		
7230 ships & boats	0		

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons
CRAIG HARBOR, AK - continued	7400 manufac. wood prod.	0
	7600 rubber & plastic pr.	0
	7900 manufac. prod. nec	1
	Total Tons(x1000)	14
DILLINGHAM HARBOR, AK	2211 gasoline	11
	2221 kerosene	0
	2330 distillate fuel oil	7
	2350 lube oil & greases	0
	2640 liquid natural gas	0
	3110 nitrogenous fert.	0
	3276 metallic salts	0
	3282 pigments & paints	0
	4170 wood in the rough	1
	4189 lumber	0
	4420 iron & steel scrap	0
	4680 non-ferrous scrap	0
	4782 clay & refrac. mat.	0
	4900 non-metal. min. nec	0
	5190 paper products nec	0
	5220 cement & concrete	0
	5240 glass & glass prod.	0
	5290 misc. mineral prod.	1
	5330 i&s plates & sheets	0
	5370 i&s pipe & tube	0
	5422 aluminum	0
	5480 fab. metal products	3
	5540 primary wood prod.	0
	6134 fish (not shellfish)	0
	6835 fish, prepared	2
	6885 alcoholic beverages	0
	6887 groceries	0
	7110 machinery (not elec)	2
	7120 electrical machinery	0
	7210 vehicles & parts	0
	7230 ships & boats	0
	7400 manufac. wood prod.	0
	7600 rubber & plastic pr.	0
	7900 manufac. prod. nec	3
Total Tons(x1000)	32	
DOUGLAS HARBOR, AK	6134 fish (not shellfish)	0
	Total Tons(x1000)	0
DRY PASS, AK	No Commerce Reported	
EGEGIK RIVER, AK	2211 gasoline	0
	2330 distillate fuel oil	2
	3220 alcohols	0
	4189 lumber	0
	5190 paper products nec	0
	5220 cement & concrete	0
	5290 misc. mineral prod.	0
	5480 fab. metal products	0
	6134 fish (not shellfish)	0
	6835 fish, prepared	1
	6885 alcoholic beverages	0
	6887 groceries	0
	7110 machinery (not elec)	0
	7210 vehicles & parts	0
	7230 ships & boats	0
	7400 manufac. wood prod.	0
7900 manufac. prod. nec	0	
Total Tons(x1000)	4	
ELFIN COVE HARBOR, AK	2211 gasoline	0
	2330 distillate fuel oil	1
	2340 residual fuel oil	0
	Total Tons(x1000)	1

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons
GASTINEAU CHANNEL, AK	No Commerce Reported	
HOONAH HARBOR, AK	2211 gasoline 2330 distillate fuel oil 2640 liquid natural gas 3110 nitrogenous fert. 4170 wood in the rough 4331 sand & gravel 5370 i&s pipe & tube 5480 fab. metal products 6134 fish (not shellfish) 6889 food products nec 7110 machinery (not elec) 7210 vehicles & parts 7900 manufac. prod. nec	1 4 0 0 152 2 0 2 1 0 2 0 1
	Total Tons(x1000)	165
HUMBOLDT HARBOR, AK	2211 gasoline 2330 distillate fuel oil 2990 petro. products nec 4170 wood in the rough 4189 lumber 4900 non-metal. min. nec 5190 paper products nec 5480 fab. metal products 6134 fish (not shellfish) 6136 shellfish 6654 vegetables & prod. 6811 meat, fresh, frozen 6839 animals & prod. nec 6858 fruit juices 6887 groceries 7110 machinery (not elec) 7120 electrical machinery 7400 manufac. wood prod. 7900 manufac. prod. nec	6 31 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 1
	Total Tons(x1000)	41
KAKE HARBOR, AK	2211 gasoline 2330 distillate fuel oil 2350 lube oil & greases 3110 nitrogenous fert. 3282 pigments & paints 3293 explosives 4170 wood in the rough 4189 lumber 5190 paper products nec 5290 misc. mineral prod. 5370 i&s pipe & tube 5480 fab. metal products 5540 primary wood prod. 6134 fish (not shellfish) 6885 alcoholic beverages 6887 groceries 6889 food products nec 7110 machinery (not elec) 7120 electrical machinery 7210 vehicles & parts 7400 manufac. wood prod. 7500 textile products 7900 manufac. prod. nec	2 8 0 0 0 0 0 42 0 0 0 1 0 0 0 0 0 0 0 3 0 0 0 0 1
	Total Tons(x1000)	59
KING COVE LAGOON, AK	2211 gasoline 2330 distillate fuel oil 4189 lumber 4900 non-metal. min. nec 5190 paper products nec 5240 glass & glass prod. 5290 misc. mineral prod. 5360 i&s bars & shapes 5370 i&s pipe & tube	0 5 0 0 0 0 1 0 0

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons
KING COVE LAGOON, AK - continued	5480 fab. metal products	1
	5540 primary wood prod.	0
	6134 fish (not shellfish)	1
	6136 shellfish	0
	6654 vegetables & prod.	0
	6811 meat, fresh, frozen	0
	6858 fruit juices	0
	6887 groceries	0
	6889 food products nec	0
	7110 machinery (not elec)	0
	7400 manufac. wood prod.	0
7900 manufac. prod. nec	1	
	Total Tons(x1000)	10
METLAKATLA HARBOR, AK	1100 coal lignite	0
	2211 gasoline	1
	2330 distillate fuel oil	2
	2990 petro. products nec	0
	3299 chem. products nec	0
	4110 rubber & gums	0
	4150 fuel wood	15
	4161 wood chips	18
	4170 wood in the rough	131
	4189 lumber	32
	4190 forest products nec	1
	4225 pulp & waste paper	0
	4331 sand & gravel	1
	4420 iron & steel scrap	2
	5190 paper products nec	0
	5220 cement & concrete	0
	5240 glass & glass prod.	0
	5480 fab. metal products	0
	6887 groceries	0
	6889 food products nec	3
	7110 machinery (not elec)	4
	7120 electrical machinery	0
	7210 vehicles & parts	0
7400 manufac. wood prod.	3	
7500 textile products	0	
7600 rubber & plastic pr.	0	
7900 manufac. prod. nec	0	
	Total Tons(x1000)	216
NAKNEK RIVER, AK	2211 gasoline	9
	2330 distillate fuel oil	20
	2430 asphalt, tar & pitch	2
	2540 petroleum coke	1
	2640 liquid natural gas	0
	2990 petro. products nec	0
	3110 nitrogenous fert.	0
	3220 alcohols	0
	3260 organic comp. nec	0
	3276 metallic salts	0
	3279 inorganic chem. nec	0
	3299 chem. products nec	0
	4170 wood in the rough	0
	4189 lumber	1
	4190 forest products nec	0
	4900 non-metal. min. nec	1
	5190 paper products nec	2
	5220 cement & concrete	0
	5240 glass & glass prod.	0
	5290 misc. mineral prod.	1
	5360 i&s bars & shapes	0
	5370 i&s pipe & tube	0
	5429 smelted prod. nec	1
	5480 fab. metal products	6
	5540 primary wood prod.	0
	6134 fish (not shellfish)	4
	6654 vegetables & prod.	0
6811 meat, fresh, frozen	0	
6835 fish, prepared	2	
6858 fruit juices	0	
6885 alcoholic beverages	0	
6887 groceries	2	

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons
NAKNEK RIVER, AK - continued	6889 food products nec	0
	7110 machinery (not elec)	2
	7120 electrical machinery	0
	7210 vehicles & parts	1
	7230 ships & boats	1
	7400 manufac. wood prod.	1
	7500 textile products	0
	7600 rubber & plastic pr.	0
	7900 manufac. prod. nec	12
	Total Tons(x1000)	71
	Total Ton-miles(x1000)	142
NINILCHIK HARBOR, AK	2330 distillate fuel oil	0
	4189 lumber	0
	5290 misc. mineral prod.	0
	5480 fab. metal products	0
	7110 machinery (not elec)	0
	7210 vehicles & parts	0
	7400 manufac. wood prod.	0
	7500 textile products	0
	7900 manufac. prod. nec	0
	Total Tons(x1000)	0
NOME, AK	2211 gasoline	27
	2221 kerosene	0
	2330 distillate fuel oil	13
	2350 lube oil & greases	0
	2430 asphalt, tar & pitch	0
	2640 liquid natural gas	0
	2990 petro. products nec	0
	3110 nitrogenous fert.	1
	3190 fert. & mixes nec	0
	3211 acyclic hydrocarbons	0
	3220 alcohols	0
	3275 inorg. elem.,oxides, & halogen salts	0
	3276 metallic salts	0
	3282 pigments & paints	0
	3285 perfumes & cleansers	0
	3299 chem. products nec	0
	4170 wood in the rough	0
	4189 lumber	2
	4190 forest products nec	0
	4225 pulp & waste paper	0
	4331 sand & gravel	17
	4420 iron & steel scrap	0
	4515 marine shells	0
	4900 non-metal. min. nec	0
	5110 newsprint	0
	5190 paper products nec	0
	5220 cement & concrete	0
	5240 glass & glass prod.	0
	5290 misc. mineral prod.	1
	5330 i&s plates & sheets	0
	5360 i&s bars & shapes	0
	5370 i&s pipe & tube	0
	5421 copper	0
	5480 fab. metal products	2
	5540 primary wood prod.	0
	6134 fish (not shellfish)	0
	6781 hay & fodder	0
	6782 animal feed, prep.	0
	6835 fish, prepared	0
	6885 alcoholic beverages	1
	6887 groceries	0
	6888 water & ice	0
	6889 food products nec	0
	6899 farm products nec	0
	7110 machinery (not elec)	10
	7120 electrical machinery	0
	7210 vehicles & parts	1
	7230 ships & boats	0
	7400 manufac. wood prod.	2
	7500 textile products	0
	7600 rubber & plastic pr.	0
	7900 manufac. prod. nec	3
	Total Tons(x1000)	81

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons
OLD HARBOR, AK	2211 gasoline	0
	2330 distillate fuel oil	0
	4900 non-metal. min. nec	0
	5190 paper products nec	0
	5480 fab. metal products	0
	6654 vegetables & prod.	0
	6811 meat, fresh, frozen	0
	6858 fruit juices	0
	7900 manufac. prod. nec	0
	Total Tons(x1000)	0
PELICAN HARBOR, AK	2211 gasoline	0
	2330 distillate fuel oil	1
	2340 residual fuel oil	0
	4331 sand & gravel	0
	7110 machinery (not elec)	0
	7900 manufac. prod. nec	1
Total Tons(x1000)	3	
PETERSBURG HARBOR, AK	2211 gasoline	6
	2330 distillate fuel oil	20
	2350 lube oil & greases	1
	2990 petro. products nec	0
	3110 nitrogenous fert.	0
	3282 pigments & paints	0
	3286 plastics	0
	3293 explosives	0
	3299 chem. products nec	0
	4150 fuel wood	0
	4170 wood in the rough	1
	4189 lumber	1
	4900 non-metal. min. nec	0
	5190 paper products nec	1
	5240 glass & glass prod.	0
	5290 misc. mineral prod.	0
	5370 i&s pipe & tube	0
	5480 fab. metal products	3
	6134 fish (not shellfish)	2
	6136 shellfish	0
	6654 vegetables & prod.	0
	6811 meat, fresh, frozen	0
	6835 fish, prepared	4
	6858 fruit juices	0
	6885 alcoholic beverages	1
	6887 groceries	2
	6889 food products nec	0
	7110 machinery (not elec)	1
	7120 electrical machinery	2
	7210 vehicles & parts	1
7230 ships & boats	0	
7400 manufac. wood prod.	1	
7500 textile products	0	
7900 manufac. prod. nec	12	
Total Tons(x1000)	61	
PORT ALEXANDER, AK	No Commerce Reported	
SELDOVIA HARBOR, AK	2211 gasoline	0
	2330 distillate fuel oil	0
	3293 explosives	0
	4170 wood in the rough	13
	5480 fab. metal products	0
	6134 fish (not shellfish)	0
	7110 machinery (not elec)	0
	7210 vehicles & parts	0
	7230 ships & boats	0
	7900 manufac. prod. nec	0
Total Tons(x1000)	14	
SERGIUS AND WHITESTONE NARROWS, AK	2211 gasoline	20

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons	
SERGIUS AND WHITESTONE NARROWS, AK - continued	2330 distillate fuel oil	20	
	2340 residual fuel oil	2	
	2350 lube oil & greases	1	
	2430 asphalt, tar & pitch	1	
	2640 liquid natural gas	0	
	2990 petro. products nec	1	
	3110 nitrogenous fert.	1	
	3190 fert. & mixes nec	0	
	3282 pigments & paints	2	
	3286 plastics	2	
	3293 explosives	0	
	3299 chem. products nec	5	
	4150 fuel wood	1	
	4170 wood in the rough	1	
	4189 lumber	4	
	4331 sand & gravel	24	
	4420 iron & steel scrap	0	
	4900 non-metal. min. nec	0	
	5190 paper products nec	5	
	5220 cement & concrete	6	
	5240 glass & glass prod.	1	
	5290 misc. mineral prod.	2	
	5370 i&s pipe & tube	0	
	5480 fab. metal products	15	
	5540 primary wood prod.	0	
	6134 fish (not shellfish)	4	
	6136 shellfish	0	
	6654 vegetables & prod.	0	
	6782 animal feed, prep.	0	
	6811 meat, fresh, frozen	0	
	6835 fish, prepared	0	
	6858 fruit juices	0	
	6885 alcoholic beverages	4	
	6887 groceries	7	
	6888 water & ice	0	
	6889 food products nec	9	
	7110 machinery (not elec)	7	
	7120 electrical machinery	6	
	7210 vehicles & parts	3	
	7230 ships & boats	0	
	7400 manufac. wood prod.	4	
	7500 textile products	2	
	7600 rubber & plastic pr.	1	
	7900 manufac. prod. nec	55	
		Total Tons(x1000)	216
		Total Ton-miles(x1000)	2,328
	SITKA HARBOR, AK	2211 gasoline	12
2330 distillate fuel oil		14	
2340 residual fuel oil		1	
2430 asphalt, tar & pitch		0	
2640 liquid natural gas		0	
2990 petro. products nec		0	
3110 nitrogenous fert.		0	
3190 fert. & mixes nec		0	
3282 pigments & paints		0	
3286 plastics		0	
3293 explosives		0	
3299 chem. products nec		1	
4150 fuel wood		1	
4189 lumber		1	
4331 sand & gravel		24	
4420 iron & steel scrap		0	
4900 non-metal. min. nec		0	
5190 paper products nec		1	
5220 cement & concrete		0	
5290 misc. mineral prod.		1	
5370 i&s pipe & tube		0	
5480 fab. metal products	2		
5540 primary wood prod.	0		
6134 fish (not shellfish)	7		
6136 shellfish	0		
6887 groceries	5		
6889 food products nec	2		
7110 machinery (not elec)	1		
7120 electrical machinery	1		
7210 vehicles & parts	1		
7230 ships & boats	0		

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons	
SITKA HARBOR, AK - continued	7400 manufac. wood prod.	1	
	7500 textile products	0	
	7600 rubber & plastic pr.	0	
	7900 manufac. prod. nec	11	
	Total Tons(x1000)	89	
STIKINE RIVER, AK	No Commerce Reported		
WRANGELL HARBOR, AK	1100 coal lignite	0	
	2211 gasoline	4	
	2330 distillate fuel oil	5	
	2340 residual fuel oil	0	
	2350 lube oil & greases	0	
	2430 asphalt, tar & pitch	0	
	2540 petroleum coke	0	
	2640 liquid natural gas	0	
	2990 petro. products nec	0	
	3110 nitrogenous fert.	0	
	3190 fert. & mixes nec	0	
	3282 pigments & paints	0	
	3286 plastics	0	
	3299 chem. products nec	0	
	4110 rubber & gums	0	
	4150 fuel wood	12	
	4170 wood in the rough	17	
	4189 lumber	2	
	4190 forest products nec	0	
	4225 pulp & waste paper	0	
	4420 iron & steel scrap	0	
	4690 non-ferrous ores nec	0	
	4900 non-metal. min. nec	0	
	5190 paper products nec	0	
	5220 cement & concrete	1	
	5240 glass & glass prod.	1	
	5290 misc. mineral prod.	0	
	5370 i&s pipe & tube	0	
	5480 fab. metal products	2	
	5540 primary wood prod.	0	
	6134 fish (not shellfish)	1	
	6136 shellfish	0	
	6654 vegetables & prod.	0	
	6811 meat, fresh, frozen	0	
	6835 fish, prepared	2	
	6858 fruit juices	0	
	6885 alcoholic beverages	0	
	6887 groceries	1	
	6889 food products nec	3	
	7110 machinery (not elec)	4	
	7120 electrical machinery	0	
	7210 vehicles & parts	1	
	7230 ships & boats	0	
	7400 manufac. wood prod.	3	
	7500 textile products	0	
	7600 rubber & plastic pr.	0	
	7900 manufac. prod. nec	3	
	Total Tons(x1000)	64	
	Non-project		
	BEHM CANAL, AK	2211 gasoline	0
		2330 distillate fuel oil	2
		4170 wood in the rough	262
		5480 fab. metal products	0
		6134 fish (not shellfish)	3
		6782 animal feed, prep.	0
		6887 groceries	0
		7110 machinery (not elec)	0
		7210 vehicles & parts	0
7900 manufac. prod. nec		0	
Total Tons(x1000)	268		
Total Ton-miles(x1000)	20,630		
CHATHAM STRAIT, AK	2211 gasoline	22	

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Non-project	Commodity	Thousand Short Tons
CHATHAM STRAIT, AK - continued	2330 distillate fuel oil	55
	2340 residual fuel oil	3
	2350 lube oil & greases	1
	2430 asphalt, tar & pitch	0
	2640 liquid natural gas	0
	2990 petro. products nec	0
	3110 nitrogenous fert.	1
	3190 fert. & mixes nec	0
	3276 metallic salts	0
	3279 inorganic chem. nec	0
	3282 pigments & paints	0
	3286 plastics	1
	3293 explosives	1
	3299 chem. products nec	8
	4150 fuel wood	1
	4161 wood chips	1
	4170 wood in the rough	710
	4189 lumber	9
	4190 forest products nec	0
	4331 sand & gravel	25
	4420 iron & steel scrap	3
	4690 non-ferrous ores nec	83
	4782 clay & refrac. mat.	1
	4900 non-metal. min. nec	1
	5190 paper products nec	4
	5210 lime	0
	5220 cement & concrete	5
	5240 glass & glass prod.	1
	5290 misc. mineral prod.	11
	5370 i&s pipe & tube	1
	5480 fab. metal products	14
	5540 primary wood prod.	6
	6134 fish (not shellfish)	5
	6136 shellfish	0
	6654 vegetables & prod.	0
	6782 animal feed, prep.	0
	6811 meat, fresh, frozen	0
	6835 fish, prepared	3
	6858 fruit juices	0
	6885 alcoholic beverages	1
	6887 groceries	5
	6888 water & ice	0
	6889 food products nec	3
	7110 machinery (not elec)	12
	7120 electrical machinery	2
	7210 vehicles & parts	4
	7230 ships & boats	1
	7300 ordnance & access.	0
	7400 manufac. wood prod.	5
	7500 textile products	0
	7600 rubber & plastic pr.	1
	7900 manufac. prod. nec	38
		<hr/>
	Total Tons(x1000)	1,050
	Total Ton-miles(x1000)	41,093
CLARENCE STRAIT, AK	1100 coal lignite	0
	2211 gasoline	45
	2330 distillate fuel oil	109
	2340 residual fuel oil	1
	2350 lube oil & greases	2
	2430 asphalt, tar & pitch	2
	2540 petroleum coke	0
	2640 liquid natural gas	2
	2990 petro. products nec	1
	3110 nitrogenous fert.	2
	3190 fert. & mixes nec	0
	3275 inorg. elem., oxides, & halogen salts	0
	3276 metallic salts	0
	3279 inorganic chem. nec	0
	3282 pigments & paints	2
	3286 plastics	3
	3293 explosives	1
3299 chem. products nec	9	
4110 rubber & gums	0	
4150 fuel wood	19	
4161 wood chips	0	
4170 wood in the rough	893	
4189 lumber	48	

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Non-project	Commodity	Thousand Short Tons	
CLARENCE STRAIT, AK - continued	4190 forest products nec	1	
	4225 pulp & waste paper	0	
	4331 sand & gravel	1	
	4338 soil & fill dirt	0	
	4420 iron & steel scrap	10	
	4690 non-ferrous ores nec	0	
	4782 clay & refrac. mat.	1	
	4900 non-metal. min. nec	2	
	5110 newsprint	0	
	5190 paper products nec	9	
	5210 lime	0	
	5220 cement & concrete	7	
	5240 glass & glass prod.	3	
	5290 misc. mineral prod.	16	
	5370 i&s pipe & tube	1	
	5480 fab. metal products	34	
	5540 primary wood prod.	6	
	6134 fish (not shellfish)	12	
	6136 shellfish	2	
	6654 vegetables & prod.	0	
	6781 hay & fodder	0	
	6782 animal feed, prep.	0	
	6811 meat, fresh, frozen	0	
	6835 fish, prepared	12	
	6858 fruit juices	0	
	6885 alcoholic beverages	12	
	6887 groceries	18	
	6888 water & ice	1	
	6889 food products nec	16	
	6899 farm products nec	0	
	7110 machinery (not elec)	28	
	7120 electrical machinery	8	
	7210 vehicles & parts	12	
	7230 ships & boats	2	
	7300 ordnance & access.	0	
	7400 manufac. wood prod.	15	
	7500 textile products	3	
	7600 rubber & plastic pr.	2	
	7900 manufac. prod. nec	111	
	8900 waste and scrap nec	0	
		Total Tons(x1000)	1,488
		Total Ton-miles(x1000)	67,500
	FREDERICK SOUND, AK	2211 gasoline	39
2330 distillate fuel oil		88	
2340 residual fuel oil		3	
2350 lube oil & greases		1	
2430 asphalt, tar & pitch		1	
2640 liquid natural gas		1	
2990 petro. products nec		1	
3110 nitrogenous fert.		1	
3190 fert. & mixes nec		0	
3275 inorg. elem.,oxides, & halogen salts		0	
3276 metallic salts		0	
3282 pigments & paints		2	
3286 plastics		2	
3293 explosives		1	
3299 chem. products nec		5	
4150 fuel wood		1	
4161 wood chips		1	
4170 wood in the rough		484	
4189 lumber		8	
4190 forest products nec		1	
4225 pulp & waste paper		0	
4331 sand & gravel		0	
4338 soil & fill dirt		0	
4420 iron & steel scrap		11	
4690 non-ferrous ores nec		83	
4900 non-metal. min. nec		1	
5110 newsprint		0	
5190 paper products nec		5	
5220 cement & concrete		6	
5240 glass & glass prod.		1	
5290 misc. mineral prod.		6	
5370 i&s pipe & tube	1		
5480 fab. metal products	22		
5540 primary wood prod.	0		
6134 fish (not shellfish)	7		

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Non-project	Commodity	Thousand Short Tons
FREDERICK SOUND, AK - continued	6136 shellfish 6654 vegetables & prod. 6781 hay & fodder 6782 animal feed, prep. 6811 meat, fresh, frozen 6835 fish, prepared 6858 fruit juices 6885 alcoholic beverages 6887 groceries 6888 water & ice 6889 food products nec 6899 farm products nec 7110 machinery (not elec) 7120 electrical machinery 7210 vehicles & parts 7230 ships & boats 7400 manufac. wood prod. 7500 textile products 7600 rubber & plastic pr. 7900 manufac. prod. nec 8900 waste and scrap nec	2 0 0 0 0 3 0 10 16 1 12 0 19 6 6 1 8 2 1 81 0
	Total Tons(x1000) Total Ton-miles(x1000)	<hr/> 954 44,283
HYDABURG, AK	2211 gasoline 2330 distillate fuel oil 4170 wood in the rough 5480 fab. metal products 7110 machinery (not elec) 7210 vehicles & parts 7900 manufac. prod. nec	1 0 250 0 0 0 0
	Total Tons(x1000)	<hr/> 251
ICY BAY, AK	2211 gasoline 2330 distillate fuel oil 4170 wood in the rough 6134 fish (not shellfish) 6136 shellfish 7110 machinery (not elec)	0 1 276 7 1 0
	Total Tons(x1000) Total Ton-miles(x1000)	<hr/> 285 1,239
ICY STRAIT, AK	2211 gasoline 2221 kerosene 2330 distillate fuel oil 2340 residual fuel oil 2350 lube oil & greases 2640 liquid natural gas 2990 petro. products nec 3110 nitrogenous fert. 3276 metallic salts 3279 inorganic chem. nec 3282 pigments & paints 3286 plastics 3299 chem. products nec 4170 wood in the rough 4189 lumber 4190 forest products nec 4331 sand & gravel 4420 iron & steel scrap 4690 non-ferrous ores nec 4782 clay & refrac. mat. 4900 non-metal. min. nec 5190 paper products nec 5210 lime 5220 cement & concrete 5240 glass & glass prod. 5290 misc. mineral prod. 5370 i&s pipe & tube 5480 fab. metal products 5540 primary wood prod. 6134 fish (not shellfish) 6136 shellfish 6654 vegetables & prod. 6811 meat, fresh, frozen	31 19 77 0 0 0 1 1 0 0 0 3 264 8 0 31 4 130 1 1 4 0 1 1 10 1 17 5 3 1 0 0

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Non-project	Commodity	Thousand Short Tons
ICY STRAIT, AK - continued	6835 fish, prepared	6
	6858 fruit juices	0
	6885 alcoholic beverages	1
	6887 groceries	0
	6888 water & ice	0
	6889 food products nec	1
	7110 machinery (not elec)	42
	7120 electrical machinery	1
	7210 vehicles & parts	5
	7230 ships & boats	1
	7300 ordnance & access.	0
	7400 manufac. wood prod.	4
	7500 textile products	0
	7600 rubber & plastic pr.	0
	7900 manufac. prod. nec	17
	Total Tons(x1000)	693
	Total Ton-miles(x1000)	22,439
KIVILINA, AK	2211 gasoline	6
	2330 distillate fuel oil	9
	4170 wood in the rough	0
	4690 non-ferrous ores nec	871
	5480 fab. metal products	5
	6134 fish (not shellfish)	6
	7110 machinery (not elec)	2
	7900 manufac. prod. nec	16
Total Tons(x1000)	915	
KLAWOOCK, AK	2211 gasoline	0
	2330 distillate fuel oil	1
	4150 fuel wood	1
	4161 wood chips	32
	4170 wood in the rough	1,596
	4189 lumber	6
	7110 machinery (not elec)	1
	7210 vehicles & parts	0
	7900 manufac. prod. nec	0
	9900 unknown or nec	0
Total Tons(x1000)	1,637	
LYNN CANAL, AK	2211 gasoline	44
	2221 kerosene	19
	2330 distillate fuel oil	100
	2350 lube oil & greases	1
	2430 asphalt, tar & pitch	0
	2640 liquid natural gas	0
	2990 petro. products nec	1
	3110 nitrogenous fert.	0
	3282 pigments & paints	1
	3286 plastics	1
	3293 explosives	1
	3299 chem. products nec	4
	4170 wood in the rough	10
	4189 lumber	2
	4331 sand & gravel	54
	4420 iron & steel scrap	9
	4690 non-ferrous ores nec	130
	4900 non-metal. min. nec	0
	5190 paper products nec	2
	5220 cement & concrete	5
	5240 glass & glass prod.	1
	5290 misc. mineral prod.	1
	5370 i&s pipe & tube	0
	5480 fab. metal products	15
	6134 fish (not shellfish)	2
	6136 shellfish	1
	6835 fish, prepared	3
6885 alcoholic beverages	2	
6887 groceries	1	
6888 water & ice	0	
6889 food products nec	6	
6899 farm products nec	0	
7110 machinery (not elec)	38	
7120 electrical machinery	3	

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Non-project	Commodity	Thousand Short Tons
LYNN CANAL, AK - continued	7210 vehicles & parts	2
	7230 ships & boats	0
	7400 manufac. wood prod.	2
	7500 textile products	0
	7600 rubber & plastic pr.	1
	7900 manufac. prod. nec	35
	Total Tons(x1000)	500
Total Ton-miles(x1000)	28,566	
NIKISHKA, AK	2100 crude petroleum	2,707
	2211 gasoline	289
	2221 kerosene	145
	2330 distillate fuel oil	726
	2340 residual fuel oil	481
	2429 naphtha & solvents	18
	2430 asphalt, tar & pitch	198
	2640 liquid natural gas	1,283
	3110 nitrogenous fert.	322
	3220 alcohols	0
	3272 sulphuric acid	0
	3273 ammonia	408
	3274 sodium hydroxide	1
	6134 fish (not shellfish)	29
	6136 shellfish	0
	6811 meat, fresh, frozen	0
	6835 fish, prepared	1
6838 tallow, animal oils	1	
7900 manufac. prod. nec	0	
Total Tons(x1000)	6,609	
PRINCE OF WALES IS. WEST SIDE, AK	2211 gasoline	1
	2330 distillate fuel oil	4
	2340 residual fuel oil	0
	3293 explosives	0
	4161 wood chips	1
	4170 wood in the rough	1,962
	4189 lumber	1
	4331 sand & gravel	1
	4420 iron & steel scrap	1
	4900 non-metal. min. nec	0
	5190 paper products nec	0
	5480 fab. metal products	0
	5540 primary wood prod.	0
	6134 fish (not shellfish)	0
	6887 groceries	0
	7110 machinery (not elec)	4
	7210 vehicles & parts	1
	7230 ships & boats	0
	7600 rubber & plastic pr.	0
7900 manufac. prod. nec	2	
Total Tons(x1000)	1,978	
REVILLAGIGADO CHANNEL, AK	1100 coal lignite	0
	2211 gasoline	77
	2330 distillate fuel oil	116
	2340 residual fuel oil	19
	2350 lube oil & greases	1
	2429 naphtha & solvents	2
	2430 asphalt, tar & pitch	2
	2540 petroleum coke	0
	2640 liquid natural gas	2
	2990 petro. products nec	2
	3110 nitrogenous fert.	2
	3190 fert. & mixes nec	0
	3273 ammonia	0
	3274 sodium hydroxide	5
	3275 inorg. elem., oxides, & halogen salts	0
	3276 metallic salts	0
	3279 inorganic chem. nec	0
	3282 pigments & paints	4
3285 perfumes & cleansers	0	
3286 plastics	4	
3299 chem. products nec	15	
4110 rubber & gums	1	

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Non-project	Commodity	Thousand Short Tons	
REVILLAGIGADO CHANNEL, AK - continued	4150 fuel wood	0	
	4161 wood chips	31	
	4170 wood in the rough	597	
	4189 lumber	58	
	4190 forest products nec	3	
	4225 pulp & waste paper	50	
	4331 sand & gravel	7	
	4338 soil & fill dirt	0	
	4420 iron & steel scrap	23	
	4690 non-ferrous ores nec	60	
	4782 clay & refrac. mat.	1	
	4900 non-metal. min. nec	2	
	5110 newsprint	0	
	5190 paper products nec	12	
	5210 lime	0	
	5220 cement & concrete	11	
	5240 glass & glass prod.	7	
	5290 misc. mineral prod.	17	
	5370 i&s pipe & tube	1	
	5422 aluminum	0	
	5480 fab. metal products	48	
	5540 primary wood prod.	6	
	6134 fish (not shellfish)	35	
	6136 shellfish	3	
	6654 vegetables & prod.	0	
	6782 animal feed, prep.	1	
	6811 meat, fresh, frozen	0	
	6835 fish, prepared	18	
	6858 fruit juices	0	
	6885 alcoholic beverages	15	
	6887 groceries	19	
	6888 water & ice	1	
	6889 food products nec	39	
	6899 farm products nec	0	
	7110 machinery (not elec)	26	
	7120 electrical machinery	11	
	7210 vehicles & parts	17	
	7230 ships & boats	3	
	7300 ordnance & access.	0	
	7400 manufac. wood prod.	24	
	7500 textile products	4	
	7600 rubber & plastic pr.	3	
	7900 manufac. prod. nec	135	
	8900 waste and scrap nec	0	
	9900 unknown or nec	0	
		Total Tons(x1000)	1,538
		Total Ton-miles(x1000)	60,121
STEPHENS PASSAGE, AK	2211 gasoline	32	
	2330 distillate fuel oil	50	
	2340 residual fuel oil	3	
	2350 lube oil & greases	1	
	2430 asphalt, tar & pitch	1	
	2640 liquid natural gas	1	
	2990 petro. products nec	1	
	3110 nitrogenous fert.	0	
	3190 fert. & mixes nec	0	
	3275 inorg. elem., oxides, & halogen salts	0	
	3276 metallic salts	0	
	3282 pigments & paints	1	
	3286 plastics	2	
	3293 explosives	0	
	3299 chem. products nec	4	
	4150 fuel wood	0	
	4161 wood chips	1	
	4170 wood in the rough	395	
	4189 lumber	6	
	4190 forest products nec	1	
	4225 pulp & waste paper	0	
	4331 sand & gravel	26	
	4338 soil & fill dirt	0	
	4420 iron & steel scrap	12	
4690 non-ferrous ores nec	83		
4900 non-metal. min. nec	1		
5110 newsprint	0		
5190 paper products nec	4		
5220 cement & concrete	5		
5240 glass & glass prod.	1		

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Non-project	Commodity	Thousand Short Tons
STEPHENS PASSAGE, AK - continued	5290 misc. mineral prod.	5
	5370 i&s pipe & tube	1
	5480 fab. metal products	25
	5540 primary wood prod.	0
	6134 fish (not shellfish)	3
	6136 shellfish	1
	6781 hay & fodder	0
	6782 animal feed, prep.	0
	6811 meat, fresh, frozen	0
	6835 fish, prepared	3
	6858 fruit juices	0
	6885 alcoholic beverages	10
	6887 groceries	11
	6888 water & ice	2
	6889 food products nec	10
	6899 farm products nec	0
	7110 machinery (not elec)	45
	7120 electrical machinery	5
	7210 vehicles & parts	6
	7230 ships & boats	1
	7400 manufac. wood prod.	7
	7500 textile products	2
	7600 rubber & plastic pr.	1
7900 manufac. prod. nec	70	
8900 waste and scrap nec	0	
	Total Tons(x1000)	845
	Total Ton-miles(x1000)	44,057
SUMNER STRAIT, AK	1100 coal lignite	0
	2211 gasoline	46
	2330 distillate fuel oil	104
	2340 residual fuel oil	1
	2350 lube oil & greases	2
	2430 asphalt, tar & pitch	1
	2540 petroleum coke	0
	2640 liquid natural gas	1
	2990 petro. products nec	1
	3110 nitrogenous fert.	2
	3190 fert. & mixes nec	0
	3275 inorg. elem., oxides, & halogen salts	0
	3276 metallic salts	0
	3279 inorganic chem. nec	0
	3282 pigments & paints	2
	3286 plastics	3
	3293 explosives	1
	3299 chem. products nec	9
	4110 rubber & gums	0
	4150 fuel wood	12
	4161 wood chips	0
	4170 wood in the rough	197
	4189 lumber	18
	4190 forest products nec	1
	4225 pulp & waste paper	0
	4331 sand & gravel	2
	4338 soil & fill dirt	0
	4420 iron & steel scrap	12
	4690 non-ferrous ores nec	0
	4782 clay & refrac. mat.	1
	4900 non-metal. min. nec	2
	5110 newsprint	0
	5190 paper products nec	9
	5210 lime	0
	5220 cement & concrete	7
	5240 glass & glass prod.	3
	5290 misc. mineral prod.	16
	5370 i&s pipe & tube	1
	5480 fab. metal products	34
	5540 primary wood prod.	6
	6134 fish (not shellfish)	9
	6136 shellfish	2
	6654 vegetables & prod.	0
	6781 hay & fodder	0
	6782 animal feed, prep.	0
	6811 meat, fresh, frozen	0
	6835 fish, prepared	10
6858 fruit juices	0	
6885 alcoholic beverages	12	
6887 groceries	18	

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Non-project	Commodity	Thousand Short Tons
SUMNER STRAIT, AK - continued	6888 water & ice	1
	6889 food products nec	16
	6899 farm products nec	0
	7110 machinery (not elec)	25
	7120 electrical machinery	8
	7210 vehicles & parts	10
	7230 ships & boats	2
	7300 ordnance & access.	0
	7400 manufac. wood prod.	15
	7500 textile products	3
	7600 rubber & plastic pr.	2
	7900 manufac. prod. nec	100
	8900 waste and scrap nec	0
	Total Tons(x1000)	728
Total Ton-miles(x1000)	24,296	
TONGASS NARROWS, AK	1100 coal lignite	0
	2211 gasoline	44
	2330 distillate fuel oil	110
	2340 residual fuel oil	1
	2350 lube oil & greases	1
	2430 asphalt, tar & pitch	2
	2540 petroleum coke	0
	2640 liquid natural gas	2
	2990 petro. products nec	1
	3110 nitrogenous fert.	2
	3190 fert. & mixes nec	0
	3275 inorg. elem.,oxides, & halogen salts	0
	3276 metallic salts	0
	3279 inorganic chem. nec	0
	3282 pigments & paints	2
	3286 plastics	3
	3293 explosives	1
	3299 chem. products nec	9
	4110 rubber & gums	0
	4150 fuel wood	17
	4161 wood chips	0
	4170 wood in the rough	376
	4189 lumber	18
	4190 forest products nec	1
	4225 pulp & waste paper	0
	4331 sand & gravel	1
	4338 soil & fill dirt	0
	4420 iron & steel scrap	10
	4690 non-ferrous ores nec	0
	4782 clay & refrac. mat.	1
	4900 non-metal. min. nec	2
	5110 newsprint	0
	5190 paper products nec	9
	5210 lime	0
	5220 cement & concrete	7
	5240 glass & glass prod.	3
	5290 misc. mineral prod.	16
	5370 i&s pipe & tube	1
	5480 fab. metal products	34
	5540 primary wood prod.	6
	6134 fish (not shellfish)	12
	6136 shellfish	2
	6654 vegetables & prod.	0
	6781 hay & fodder	0
	6782 animal feed, prep.	0
	6811 meat, fresh, frozen	0
	6835 fish, prepared	12
	6858 fruit juices	0
	6885 alcoholic beverages	12
	6887 groceries	18
	6888 water & ice	1
	6889 food products nec	16
	6899 farm products nec	0
	7110 machinery (not elec)	23
	7120 electrical machinery	8
	7210 vehicles & parts	11
	7230 ships & boats	2
	7300 ordnance & access.	0
	7400 manufac. wood prod.	15
	7500 textile products	3
	7600 rubber & plastic pr.	2
	7900 manufac. prod. nec	105

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Non-project	Commodity	Thousand Short Tons
TONGASS NARROWS, AK - continued	8900 waste and scrap nec	0
	Total Tons(x1000)	926
	Total Ton-miles(x1000)	12,893
WHITTIER HARBOR, AK	2211 gasoline	2
	2640 liquid natural gas	0
	3130 potassic fert.	0
	3220 alcohols	0
	4170 wood in the rough	5
	4189 lumber	0
	4331 sand & gravel	3
	4900 non-metal. min. nec	0
	5190 paper products nec	0
	5240 glass & glass prod.	0
	5330 i&s plates & sheets	0
	5480 fab. metal products	61
	5540 primary wood prod.	1
	6134 fish (not shellfish)	45
	6136 shellfish	0
	6654 vegetables & prod.	0
	6811 meat, fresh, frozen	0
	6835 fish, prepared	0
	6838 tallow, animal oils	0
	6858 fruit juices	0
	6887 groceries	0
	7110 machinery (not elec)	0
	7210 vehicles & parts	9
	7900 manufac. prod. nec	218
	9900 unknown or nec	0
	Total Tons(x1000)	347

Section 2

Trips and Drafts of Vessels

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
SAN DIEGO HARBOR, CA												
Grand Total	Inbound						Outbound					
	13,804	12,303	23	1,260	204	14	13,835	12,321	27	1,275	205	7
FOREIGN												
Total	601	575	1	12	13	—	634	605	5	10	14	—
39	—	—	—	—	—	—	1	1	—	—	—	—
37	—	—	—	—	—	—	2	1	1	—	—	—
36	1	1	—	—	—	—	2	2	—	—	—	—
35	2	2	—	—	—	—	4	4	—	—	—	—
34	3	3	—	—	—	—	1	1	—	—	—	—
33	3	3	—	—	—	—	5	5	—	—	—	—
32	7	7	—	—	—	—	10	10	—	—	—	—
31	3	3	—	—	—	—	7	7	—	—	—	—
30	13	13	—	—	—	—	10	10	—	—	—	—
29	7	7	—	—	—	—	3	3	—	—	—	—
28	13	13	—	—	—	—	10	10	—	—	—	—
27	17	17	—	—	—	—	13	13	—	—	—	—
26	26	26	—	—	—	—	18	18	—	—	—	—
25	38	38	—	—	—	—	19	19	—	—	—	—
24	26	26	—	—	—	—	27	26	1	—	—	—
23	60	60	—	—	—	—	83	83	—	—	—	—
22	31	31	—	—	—	—	27	27	—	—	—	—
21	7	7	—	—	—	—	24	24	—	—	—	—
20	10	10	—	—	—	—	7	7	—	—	—	—
19	12	12	—	—	—	—	6	6	—	—	—	—
≤ 18	322	296	1	12	13	—	355	328	3	10	14	—
DOMESTIC												
Total	13,203	11,728	22	1,248	191	14	13,201	11,716	22	1,265	191	7
36	3	—	3	—	—	—	—	—	—	—	—	—
35	1	—	1	—	—	—	—	—	—	—	—	—
34	8	—	8	—	—	—	—	—	—	—	—	—
33	2	—	2	—	—	—	—	—	—	—	—	—
32	2	—	2	—	—	—	—	—	—	—	—	—
30	1	—	1	—	—	—	—	—	—	—	—	—
28	1	—	1	—	—	—	—	—	—	—	—	—
27	1	—	1	—	—	—	—	—	—	—	—	—
25	2	—	2	—	—	—	—	—	—	—	—	—
22	—	—	—	—	—	—	1	—	1	—	—	—
20	—	—	—	—	—	—	5	—	1	—	—	—
≤ 18	13,182	11,728	1	1,248	191	14	13,195	11,716	20	1,261	191	7
										Total trips:	27,639	
LONG BEACH HARBOR, CA												
Grand Total	Inbound						Outbound					
	27,393	11,810	595	11,532	2,934	522	27,501	11,929	596	11,565	2,933	478
FOREIGN												
Total	2,165	1,820	259	49	37	—	2,237	1,877	264	58	38	—
56	1	—	1	—	—	—	—	—	—	—	—	—
55	1	—	1	—	—	—	—	—	—	—	—	—
53	3	—	3	—	—	—	—	—	—	—	—	—
51	3	—	3	—	—	—	2	2	—	—	—	—
50	2	—	2	—	—	—	1	1	—	—	—	—
49	1	—	1	—	—	—	3	3	—	—	—	—
48	12	4	8	—	—	—	5	3	2	—	—	—
47	6	2	4	—	—	—	4	2	2	—	—	—
46	3	1	2	—	—	—	2	2	—	—	—	—
45	1	—	—	—	—	—	4	3	1	—	—	—
44	4	2	2	—	—	—	8	4	4	—	—	—
43	7	5	2	—	—	—	8	3	5	—	—	—
42	17	9	8	—	—	—	8	5	3	—	—	—
41	22	13	9	—	—	—	22	18	4	—	—	—
40	59	51	8	—	—	—	49	44	5	—	—	—
39	97	79	18	—	—	—	88	79	9	—	—	—
38	77	60	17	—	—	—	83	78	5	—	—	—
37	119	98	21	—	—	—	64	61	3	—	—	—
36	104	93	11	—	—	—	58	51	7	—	—	—
35	119	112	7	—	—	—	86	82	4	—	—	—
34	138	123	15	—	—	—	123	119	4	—	—	—
33	142	127	15	—	—	—	165	158	7	—	—	—

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

LONG BEACH HARBOR, CA - continued

Inbound

Outbound

FOREIGN

32	124	117	7	—	—	—	182	168	13	—	1	—
31	76	71	5	—	—	—	131	113	18	—	—	—
30	83	73	10	—	—	—	125	101	24	—	—	—
29	111	97	14	—	—	—	117	107	10	—	—	—
28	126	115	11	—	—	—	141	120	21	—	—	—
27	104	94	10	—	—	—	90	70	20	—	—	—
26	89	74	15	—	—	—	93	80	13	—	—	—
25	77	73	4	—	—	—	96	65	31	—	—	—
24	82	75	6	1	—	—	72	65	7	—	—	—
23	62	59	2	1	—	—	63	56	7	—	—	—
22	73	66	6	—	1	—	65	57	7	—	1	—
21	47	44	3	—	—	—	55	46	9	—	—	—
20	24	22	2	—	—	—	41	37	4	—	—	—
19	17	13	1	3	—	—	26	21	4	1	—	—
≤ 18	132	47	5	44	36	—	157	53	11	57	36	—

DOMESTIC

Total	25,228	9,990	336	11,483	2,897	522	25,264	10,052	332	11,507	2,895	478
60	—	—	—	—	—	—	1	—	1	—	—	—
58	12	—	12	—	—	—	—	—	—	—	—	—
57	43	—	43	—	—	—	—	—	—	—	—	—
56	8	—	8	—	—	—	—	—	—	—	—	—
55	2	—	2	—	—	—	1	—	1	—	—	—
53	1	—	1	—	—	—	—	—	—	—	—	—
51	1	—	1	—	—	—	—	—	—	—	—	—
48	2	—	2	—	—	—	—	—	—	—	—	—
45	—	—	—	—	—	—	1	—	1	—	—	—
41	—	—	—	—	—	—	2	—	2	—	—	—
40	3	—	3	—	—	—	2	—	2	—	—	—
39	10	—	10	—	—	—	5	—	5	—	—	—
38	16	—	16	—	—	—	8	—	8	—	—	—
37	12	—	12	—	—	—	3	—	3	—	—	—
36	17	—	17	—	—	—	9	—	9	—	—	—
35	7	—	7	—	—	—	27	—	27	—	—	—
34	6	—	6	—	—	—	19	—	19	—	—	—
33	5	—	5	—	—	—	9	—	9	—	—	—
32	6	—	6	—	—	—	10	—	10	—	—	—
31	3	—	3	—	—	—	9	1	8	—	—	—
30	3	—	3	—	—	—	15	—	15	—	—	—
29	4	—	4	—	—	—	6	—	6	—	—	—
28	5	—	5	—	—	—	9	—	9	—	—	—
27	46	44	2	—	—	—	98	93	5	—	—	—
26	10	—	—	—	—	10	6	1	3	—	—	2
25	5	2	3	—	—	—	6	1	5	—	—	—
24	—	—	—	—	—	—	1	—	1	—	—	—
23	5	3	2	—	—	—	4	—	4	—	—	—
22	3	1	2	—	—	—	2	—	2	—	—	—
21	4	—	—	—	—	4	5	—	2	—	—	3
20	245	—	3	242	—	—	251	—	7	243	—	1
19	22	—	1	19	—	—	19	—	1	17	—	1
≤ 18	24,722	9,940	157	11,222	2,897	506	24,736	9,956	167	11,247	2,895	471
Total trips:											54,894	

LOS ANGELES HARBOR, CA

Inbound

Outbound

Grand Total	19,403	10,097	541	6,346	1,483	936	19,418	10,137	544	6,307	1,478	952
--------------------	---------------	---------------	------------	--------------	--------------	------------	---------------	---------------	------------	--------------	--------------	------------

FOREIGN

Total	2,343	2,141	131	34	33	4	2,371	2,153	144	39	35	—
54	2	—	2	—	—	—	—	—	—	—	—	—
51	1	—	1	—	—	—	—	—	—	—	—	—
50	—	—	—	—	—	—	1	1	—	—	—	—
49	—	—	—	—	—	—	1	—	1	—	—	—
48	—	—	—	—	—	—	2	1	1	—	—	—
47	—	—	—	—	—	—	1	—	1	—	—	—
46	—	—	—	—	—	—	4	3	1	—	—	—
45	—	—	—	—	—	—	2	2	—	—	—	—
44	—	—	—	—	—	—	4	2	2	—	—	—
43	5	4	1	—	—	—	7	4	3	—	—	—
42	1	1	—	—	—	—	3	2	1	—	—	—

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
LOS ANGELES HARBOR, CA - continued												
	Inbound						Outbound					
FOREIGN												
41	9	7	2	—	—	—	9	8	1	—	—	—
40	28	23	5	—	—	—	19	17	2	—	—	—
39	64	61	3	—	—	—	38	36	2	—	—	—
38	59	53	6	—	—	—	39	35	4	—	—	—
37	107	98	9	—	—	—	43	41	2	—	—	—
36	75	70	5	—	—	—	55	52	3	—	—	—
35	106	100	6	—	—	—	88	85	3	—	—	—
34	128	118	10	—	—	—	116	114	2	—	—	—
33	112	107	5	—	—	—	174	170	4	—	—	—
32	123	119	4	—	—	—	199	194	5	—	—	—
31	93	89	4	—	—	—	116	112	4	—	—	—
30	109	103	6	—	—	—	115	108	7	—	—	—
29	126	120	6	—	—	—	111	108	3	—	—	—
28	132	127	5	—	—	—	122	117	4	1	—	—
27	138	128	10	—	—	—	115	103	12	—	—	—
26	201	193	8	—	—	—	193	184	9	—	—	—
25	176	164	11	—	1	—	190	175	15	—	—	—
24	147	143	4	—	—	—	148	139	7	2	—	—
23	132	126	4	2	—	—	132	124	7	—	1	—
≤ 22	269	187	14	32	32	4	324	216	38	36	34	—
DOMESTIC												
Total	17,060	7,956	410	6,312	1,450	932	17,047	7,984	400	6,268	1,443	952
54	1	—	1	—	—	—	—	—	—	—	—	—
49	2	—	2	—	—	—	—	—	—	—	—	—
48	4	—	4	—	—	—	—	—	—	—	—	—
47	1	—	1	—	—	—	—	—	—	—	—	—
42	1	—	1	—	—	—	—	—	—	—	—	—
41	2	—	2	—	—	—	—	—	—	—	—	—
40	—	—	—	—	—	—	2	—	2	—	—	—
39	3	—	3	—	—	—	2	—	2	—	—	—
38	6	—	6	—	—	—	1	1	—	—	—	—
37	12	2	10	—	—	—	—	—	—	—	—	—
36	9	1	8	—	—	—	5	—	5	—	—	—
35	9	1	8	—	—	—	7	2	5	—	—	—
34	32	6	26	—	—	—	9	6	3	—	—	—
33	24	5	19	—	—	—	32	24	8	—	—	—
32	28	4	24	—	—	—	36	29	7	—	—	—
31	23	6	17	—	—	—	32	22	10	—	—	—
30	29	11	18	—	—	—	30	21	9	—	—	—
29	21	15	6	—	—	—	24	14	10	—	—	—
28	26	19	7	—	—	—	31	12	19	—	—	—
27	54	44	10	—	—	—	30	16	14	—	—	—
26	42	26	4	—	—	12	36	16	10	—	—	10
25	42	32	10	—	—	—	40	13	27	—	—	—
24	29	29	—	—	—	—	11	5	5	—	—	1
23	9	7	1	—	—	1	4	—	4	—	—	—
≤ 22	16,651	7,748	222	6,312	1,450	919	16,715	7,803	260	6,268	1,443	941
										Total trips:		38,821
PORT HUENEME, CA												
	Inbound						Outbound					
Grand Total	2,377	2,364	—	2	2	9	2,380	2,365	1	2	3	9
FOREIGN												
Total	236	236	—	—	—	—	233	231	1	—	1	—
37	1	1	—	—	—	—	—	—	—	—	—	—
35	—	—	—	—	—	—	1	1	—	—	—	—
34	1	1	—	—	—	—	—	—	—	—	—	—
33	4	4	—	—	—	—	2	2	—	—	—	—
32	3	3	—	—	—	—	1	1	—	—	—	—
31	3	3	—	—	—	—	3	3	—	—	—	—
30	6	6	—	—	—	—	8	8	—	—	—	—
29	10	10	—	—	—	—	5	5	—	—	—	—
28	19	19	—	—	—	—	8	8	—	—	—	—
27	14	14	—	—	—	—	17	17	—	—	—	—
26	22	22	—	—	—	—	29	29	—	—	—	—
25	40	40	—	—	—	—	41	41	—	—	—	—
24	23	23	—	—	—	—	44	44	—	—	—	—
23	21	21	—	—	—	—	23	23	—	—	—	—

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
PORT HUENEME, CA - continued												
	Inbound						Outbound					
FOREIGN												
22	18	18	—	—	—	—	11	11	—	—	—	—
21	28	28	—	—	—	—	13	13	—	—	—	—
20	8	8	—	—	—	—	12	12	—	—	—	—
19	4	4	—	—	—	—	3	3	—	—	—	—
≤ 18	11	11	—	—	—	—	12	10	1	—	1	—
DOMESTIC												
Total	2,141	2,128	—	2	2	9	2,147	2,134	—	2	2	9
≤ 18	2,141	2,128	—	2	2	9	2,147	2,134	—	2	2	9
										Total trips:		4,757
MISSION BAY, CA (7 feet and less)												
	Inbound						Outbound					
Grand Total	3	—	—	3	—	—	2	—	—	2	—	—
										Total trips:		5
MORRO BAY HARBOR, CA (10 feet and less)												
	Inbound						Outbound					
Grand Total	145	18	—	127	—	—	146	18	—	128	—	—
										Total trips:		291
NEWPORT BAY HARBOR, CA (13 feet and less)												
	Inbound						Outbound					
Grand Total	699	699	—	—	—	—	702	702	—	—	—	—
										Total trips:		1,401
REDONDO BEACH, CA (7 feet and less)												
	Inbound						Outbound					
Grand Total	383	210	—	173	—	—	384	211	—	173	—	—
										Total trips:		767
SANTA BARBARA HARBOR, CA (7 feet and less)												
	Inbound						Outbound					
Grand Total	1	1	—	—	—	—	1	1	—	—	—	—
										Total trips:		2
ELLWOOD, CA (20 feet and less)												
	Inbound						Outbound					
Grand Total	4,768	4,740	—	1	—	27	4,763	4,728	—	2	—	33
										Total trips:		9,531

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, CA - continued

	Upbound						Downbound					
DOMESTIC												
Total	13	1	6	3	3	—	14	1	7	3	3	—
31	2	—	2	—	—	—	—	—	—	—	—	—
28	1	—	1	—	—	—	1	—	1	—	—	—
27	1	—	1	—	—	—	2	1	1	—	—	—
26	3	1	2	—	—	—	2	—	2	—	—	—
25	—	—	—	—	—	—	2	—	2	—	—	—
21	—	—	—	—	—	—	1	—	1	—	—	—
20	4	—	—	2	2	—	2	—	—	2	—	—
18	1	—	—	—	1	—	—	—	—	—	—	—
15	1	—	—	1	—	—	1	—	—	1	—	—
11	—	—	—	—	—	—	2	—	—	—	2	—
≤ 6	—	—	—	—	—	—	1	—	—	—	1	—
										Total trips:		158

SACRAMENTO, CA

	Inbound						Outbound					
Grand Total	1,185	1,169	10	3	3	—	1,193	1,176	11	3	3	—

FOREIGN

Total	62	58	4	—	—	—	69	65	4	—	—	—
33	2	2	—	—	—	—	2	2	—	—	—	—
32	1	—	1	—	—	—	2	2	—	—	—	—
31	6	6	—	—	—	—	11	11	—	—	—	—
30	5	4	1	—	—	—	4	4	—	—	—	—
29	4	3	1	—	—	—	12	11	1	—	—	—
28	9	9	—	—	—	—	11	11	—	—	—	—
27	5	4	1	—	—	—	4	4	—	—	—	—
26	5	5	—	—	—	—	5	5	—	—	—	—
25	2	2	—	—	—	—	6	5	1	—	—	—
24	—	—	—	—	—	—	5	4	1	—	—	—
23	1	1	—	—	—	—	2	1	1	—	—	—
22	2	2	—	—	—	—	2	2	—	—	—	—
21	4	4	—	—	—	—	2	2	—	—	—	—
20	3	3	—	—	—	—	—	—	—	—	—	—
19	10	10	—	—	—	—	1	1	—	—	—	—
18	2	2	—	—	—	—	—	—	—	—	—	—
17	1	1	—	—	—	—	—	—	—	—	—	—

DOMESTIC

Total	1,123	1,111	6	3	3	—	1,124	1,111	7	3	3	—
31	2	—	2	—	—	—	—	—	—	—	—	—
28	1	—	1	—	—	—	1	—	1	—	—	—
27	1	—	1	—	—	—	2	1	1	—	—	—
26	3	1	2	—	—	—	2	—	2	—	—	—
25	—	—	—	—	—	—	2	—	2	—	—	—
21	—	—	—	—	—	—	1	—	1	—	—	—
20	4	—	—	2	2	—	2	—	—	2	—	—
18	1	—	—	—	1	—	—	—	—	—	—	—
15	1	—	—	1	—	—	1	—	—	1	—	—
11	—	—	—	—	—	—	2	—	—	—	2	—
9	12	12	—	—	—	—	20	20	—	—	—	—
8	8	8	—	—	—	—	—	—	—	—	—	—
≤ 6	1,090	1,090	—	—	—	—	1,091	1,090	—	—	1	—
										Total trips:		2,378

SAN JOAQUIN RIVER, CA

	Upbound						Downbound					
Grand Total	408	109	178	73	4	44	410	117	180	77	4	32

FOREIGN

Total	148	106	40	1	1	—	155	113	42	—	—	—
33	13	6	7	—	—	—	14	14	—	—	—	—
32	23	15	8	—	—	—	4	4	—	—	—	—
31	20	17	3	—	—	—	4	4	—	—	—	—

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
SAN JOAQUIN RIVER, CA - continued												
	Upbound						Downbound					
FOREIGN												
30	13	5	8	—	—	—	11	11	—	—	—	—
29	2	1	1	—	—	—	10	10	—	—	—	—
28	9	7	2	—	—	—	15	10	5	—	—	—
27	10	7	3	—	—	—	12	9	3	—	—	—
26	5	4	1	—	—	—	19	7	12	—	—	—
25	5	4	1	—	—	—	18	16	2	—	—	—
24	9	8	1	—	—	—	16	11	5	—	—	—
23	8	6	2	—	—	—	6	3	3	—	—	—
22	6	5	1	—	—	—	8	5	3	—	—	—
21	4	4	—	—	—	—	4	1	3	—	—	—
20	7	7	—	—	—	—	7	4	3	—	—	—
19	2	2	—	—	—	—	3	3	—	—	—	—
18	4	4	—	—	—	—	2	1	1	—	—	—
17	1	1	—	—	—	—	—	—	—	—	—	—
16	2	2	—	—	—	—	2	—	2	—	—	—
15	2	—	1	—	1	—	—	—	—	—	—	—
14	1	—	—	1	—	—	—	—	—	—	—	—
≤ 12	2	1	1	—	—	—	—	—	—	—	—	—
DOMESTIC												
Total	260	3	138	72	3	44	255	4	138	77	4	32
32	2	—	2	—	—	—	—	—	—	—	—	—
31	1	—	1	—	—	—	—	—	—	—	—	—
27	—	—	—	—	—	—	1	—	1	—	—	—
26	—	—	—	—	—	—	2	—	2	—	—	—
18	3	—	—	—	—	3	1	—	—	—	—	1
17	27	—	—	26	—	1	30	—	—	30	—	—
15	3	—	—	2	—	1	—	—	—	1	—	—
14	12	—	—	—	—	12	—	—	—	—	—	—
13	3	—	—	1	—	2	—	—	—	1	—	—
≤ 12	209	3	135	43	3	25	219	4	135	45	4	31
											Total trips:	818

STOCKTON, CA												
	Inbound						Outbound					
Grand Total	159	56	38	24	1	40	156	59	41	25	1	30
FOREIGN												
Total	91	56	35	—	—	—	97	59	38	—	—	—
32	19	4	15	—	—	—	14	14	—	—	—	—
31	5	2	3	—	—	—	1	1	—	—	—	—
30	8	1	7	—	—	—	7	7	—	—	—	—
29	1	—	1	—	—	—	6	6	—	—	—	—
28	7	5	2	—	—	—	13	8	5	—	—	—
27	7	4	3	—	—	—	8	7	1	—	—	—
26	3	3	—	—	—	—	15	4	11	—	—	—
25	3	3	—	—	—	—	2	—	2	—	—	—
24	6	5	1	—	—	—	8	3	5	—	—	—
23	7	6	1	—	—	—	4	1	3	—	—	—
22	6	5	1	—	—	—	4	1	3	—	—	—
21	2	2	—	—	—	—	3	—	3	—	—	—
20	7	7	—	—	—	—	7	4	3	—	—	—
19	1	1	—	—	—	—	2	2	—	—	—	—
≤ 18	9	8	1	—	—	—	3	1	2	—	—	—
DOMESTIC												
Total	68	—	3	24	1	40	59	—	3	25	1	30
32	2	—	2	—	—	—	—	—	—	—	—	—
31	1	—	1	—	—	—	—	—	—	—	—	—
27	—	—	—	—	—	—	1	—	1	—	—	—
26	—	—	—	—	—	—	2	—	2	—	—	—
≤ 18	65	—	—	24	1	40	56	—	—	25	1	30
											Total trips:	315

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

MIDDLE RIVER, CA
No Vessel Trips Reported

MOKELUMNE RIVER, CA
(4 feet and less)

	Upbound						Downbound						
Grand Total	4	4	—	—	—	—	3	3	—	—	—	—	7
	Total trips:												

OLD RIVER, CA
No Vessel Trips Reported

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
SAN FRANCISCO BAY ENTRANCE, CA												
	Upbound						Downbound					
Grand Total	3,774	2,411	774	333	32	224	3,877	2,401	819	368	39	250
FOREIGN												
Total	2,539	2,094	423	11	11	—	2,582	2,082	458	21	19	2
47	1	—	1	—	—	—	—	—	—	—	—	—
45	3	—	3	—	—	—	—	—	—	—	—	—
44	1	—	—	—	—	—	—	—	—	—	—	—
43	5	5	—	—	—	—	3	3	1	—	—	—
42	20	13	7	—	—	—	10	6	4	—	—	—
41	15	10	5	—	—	—	13	12	1	—	—	—
40	17	17	—	—	—	—	14	14	—	—	—	—
39	23	18	5	—	—	—	34	25	9	—	—	—
38	58	31	27	—	—	—	37	28	9	—	—	—
37	81	40	41	—	—	—	47	37	10	—	—	—
36	95	74	21	—	—	—	94	73	21	—	—	—
35	114	99	15	—	—	—	130	108	22	—	—	—
34	136	123	13	—	—	—	173	146	27	—	—	—
33	269	235	34	—	—	—	269	256	13	—	—	—
32	207	181	26	—	—	—	284	257	27	—	—	—
31	223	202	21	—	—	—	194	180	14	—	—	—
30	212	173	39	—	—	—	180	135	45	—	—	—
29	145	134	11	—	—	—	149	121	26	—	2	—
28	128	101	27	—	—	—	181	117	64	—	—	—
27	121	96	25	—	—	—	142	114	27	—	1	—
26	130	104	24	—	2	—	128	84	42	—	2	—
25	117	92	23	—	2	—	105	82	21	—	2	—
24	74	61	12	—	1	—	81	59	22	—	—	—
23	68	64	4	—	—	—	80	66	12	1	1	—
22	55	42	13	—	—	—	61	45	14	—	1	1
21	30	27	3	—	—	—	43	38	4	—	1	—
20	43	42	—	—	1	—	20	15	4	—	—	1
19	50	39	6	4	1	—	27	13	8	5	1	—
≤ 18	98	70	17	7	4	—	79	48	8	15	8	—
DOMESTIC												
Total	1,235	317	351	322	21	224	1,295	319	361	347	20	248
50	23	—	23	—	—	—	—	—	—	—	—	—
49	19	—	19	—	—	—	—	—	—	—	—	—
45	5	—	5	—	—	—	—	—	—	—	—	—
44	8	—	8	—	—	—	—	—	—	—	—	—
43	18	—	18	—	—	—	—	—	—	—	—	—
42	12	—	12	—	—	—	—	—	—	—	—	—
41	9	—	9	—	—	—	—	—	—	—	—	—
40	8	—	8	—	—	—	—	—	—	—	—	—
39	2	—	2	—	—	—	—	—	—	—	—	—
38	10	1	9	—	—	—	—	—	—	—	—	—
37	20	—	20	—	—	—	5	2	3	—	—	—
36	17	—	17	—	—	—	11	6	5	—	—	—
35	18	—	18	—	—	—	33	11	22	—	—	—
34	15	5	10	—	—	—	31	4	27	—	—	—
33	30	16	14	—	—	—	31	16	15	—	—	—
32	16	10	6	—	—	—	38	30	8	—	—	—
31	33	20	13	—	—	—	9	3	6	—	—	—
30	31	19	12	—	—	—	13	2	11	—	—	—
29	32	17	15	—	—	—	9	6	7	—	—	—
28	28	14	14	—	—	—	10	4	5	—	—	—
27	154	147	6	—	—	—	10	1	9	—	—	—
26	33	21	11	—	—	1	100	95	5	—	—	—
25	58	22	36	—	—	—	16	9	6	—	—	1
24	18	10	8	—	—	—	66	18	48	—	—	—
23	15	4	11	—	—	—	36	32	4	—	—	—
22	5	2	3	—	—	—	32	11	21	—	—	—
21	18	1	1	—	—	—	6	4	1	—	1	—
20	52	—	5	35	2	16	30	1	2	—	—	27
19	15	—	1	2	—	10	113	40	13	44	—	16
≤ 18	513	8	17	285	19	184	21	—	1	2	—	18
							672	24	142	301	19	186
										Total trips:		7,651

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

SAN FRANCISCO HARBOR, CA

	Inbound						Outbound					
Grand Total	39,102	37,830	44	1,077	117	34	39,105	37,904	41	1,024	105	31

FOREIGN

Total	227	181	44	1	1	—	218	173	41	2	2	—
42	1	—	1	—	—	—	—	—	—	—	—	—
39	—	—	—	—	—	—	1	—	1	—	—	—
38	3	—	3	—	—	—	1	—	1	—	—	—
37	3	—	3	—	—	—	—	—	—	—	—	—
36	1	1	—	—	—	—	2	—	2	—	—	—
35	—	—	—	—	—	—	1	—	1	—	—	—
34	—	—	—	—	—	—	2	—	2	—	—	—
33	10	7	3	—	—	—	6	5	1	—	—	—
32	11	4	7	—	—	—	7	6	1	—	—	—
31	8	4	4	—	—	—	7	7	—	—	—	—
30	8	4	4	—	—	—	15	8	7	—	—	—
29	27	26	1	—	—	—	31	30	1	—	—	—
28	10	8	2	—	—	—	16	13	3	—	—	—
27	23	22	1	—	—	—	33	30	3	—	—	—
26	24	21	3	—	—	—	13	11	2	—	—	—
25	15	12	3	—	—	—	11	10	1	—	—	—
24	14	14	—	—	—	—	9	6	3	—	—	—
23	10	10	—	—	—	—	9	8	1	—	—	—
≤ 22	59	48	9	1	1	—	54	39	11	2	2	—

DOMESTIC

Total	38,875	37,649	—	1,076	116	34	38,887	37,731	—	1,022	103	31
≤ 22	38,875	37,649	—	1,076	116	34	38,887	37,731	—	1,022	103	31
										Total trips:		78,207

REDWOOD CITY HARBOR, CA

	Inbound						Outbound					
Grand Total	343	125	—	100	93	25	386	126	—	122	94	44

FOREIGN

Total	34	22	—	6	6	—	36	24	—	6	6	—
33	5	5	—	—	—	—	13	13	—	—	—	—
32	5	5	—	—	—	—	2	2	—	—	—	—
31	—	—	—	—	—	—	2	2	—	—	—	—
30	—	—	—	—	—	—	1	1	—	—	—	—
29	—	—	—	—	—	—	2	—	—	—	—	—
27	1	1	—	—	—	—	3	2	—	—	2	—
26	3	1	—	—	2	—	4	2	—	—	2	—
25	3	2	—	—	1	—	2	1	—	—	1	—
24	2	1	—	—	1	—	1	1	—	—	—	—
23	4	4	—	—	—	—	—	—	—	—	—	—
≤ 22	11	3	—	6	2	—	6	—	—	6	—	—

DOMESTIC

Total	309	103	—	94	87	25	350	102	—	116	88	44
≤ 22	309	103	—	94	87	25	350	102	—	116	88	44
										Total trips:		729

OAKLAND HARBOR, CA

	Inbound						Outbound					
Grand Total	10,590	8,042	149	1,972	255	172	10,620	8,037	150	1,988	277	168

FOREIGN

Total	1,456	1,456	—	—	—	—	1,447	1,442	1	2	2	—
38	93	93	—	—	—	—	86	86	—	—	—	—
37	38	38	—	—	—	—	33	32	1	—	—	—
36	67	67	—	—	—	—	69	69	—	—	—	—
35	89	89	—	—	—	—	103	103	—	—	—	—
34	119	119	—	—	—	—	131	131	—	—	—	—
33	208	208	—	—	—	—	228	228	—	—	—	—

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

OAKLAND HARBOR, CA - continued

Inbound							Outbound						
FOREIGN													
32	148	148	—	—	—	—	225	225	—	—	—	—	
31	168	168	—	—	—	—	146	146	—	—	—	—	
30	149	149	—	—	—	—	105	105	—	—	—	—	
29	97	97	—	—	—	—	63	63	—	—	—	—	
28	61	61	—	—	—	—	60	60	—	—	—	—	
27	46	46	—	—	—	—	41	41	—	—	—	—	
26	37	37	—	—	—	—	30	30	—	—	—	—	
25	43	43	—	—	—	—	27	27	—	—	—	—	
24	23	23	—	—	—	—	14	14	—	—	—	—	
23	17	17	—	—	—	—	26	24	—	1	1	—	
≤ 22	53	53	—	—	—	—	60	58	—	1	1	—	
DOMESTIC													
Total	9,134	6,586	149	1,972	255	172	9,173	6,595	149	1,986	275	168	
38	2	2	—	—	—	—	10	10	—	—	—	—	
37	—	—	—	—	—	—	9	9	—	—	—	—	
36	—	—	—	—	—	—	13	13	—	—	—	—	
35	—	—	—	—	—	—	4	4	—	—	—	—	
34	11	11	—	—	—	—	20	20	—	—	—	—	
33	17	17	—	—	—	—	19	19	—	—	—	—	
32	13	13	—	—	—	—	4	4	—	—	—	—	
31	17	17	—	—	—	—	2	2	—	—	—	—	
30	15	15	—	—	—	—	4	4	—	—	—	—	
29	11	11	—	—	—	—	5	5	—	—	—	—	
28	12	12	—	—	—	—	3	3	—	—	—	—	
27	152	152	—	—	—	—	134	134	—	—	—	—	
26	20	20	—	—	—	—	8	8	—	—	—	—	
25	19	19	—	—	—	—	20	20	—	—	—	—	
24	6	6	—	—	—	—	20	20	—	—	—	—	
23	3	3	—	—	—	—	11	11	—	—	—	—	
≤ 22	8,836	6,288	149	1,972	255	172	8,887	6,309	149	1,986	275	168	
										Total trips:		275	168
											21,210		

RICHMOND HARBOR, CA

Inbound							Outbound					
Grand Total	3,455	127	375	2,257	323	373	3,455	134	392	2,233	317	379
FOREIGN												
Total	266	127	137	1	1	—	288	134	150	2	2	—
47	1	—	1	—	—	—	—	—	—	—	—	—
45	1	—	1	—	—	—	—	—	—	—	—	—
43	—	—	—	—	—	—	1	—	1	—	—	—
42	3	—	3	—	—	—	2	—	2	—	—	—
41	2	—	2	—	—	—	—	—	—	—	—	—
39	3	—	3	—	—	—	5	—	5	—	—	—
38	6	—	6	—	—	—	4	1	3	—	—	—
37	6	—	6	—	—	—	6	3	3	—	—	—
36	9	2	7	—	—	—	8	1	7	—	—	—
35	7	4	3	—	—	—	14	3	11	—	—	—
34	10	3	7	—	—	—	11	3	8	—	—	—
33	14	6	8	—	—	—	8	5	3	—	—	—
32	12	7	5	—	—	—	16	7	9	—	—	—
31	14	5	9	—	—	—	9	4	5	—	—	—
30	19	6	13	—	—	—	21	3	18	—	—	—
29	4	2	2	—	—	—	11	3	8	—	—	—
28	19	9	10	—	—	—	32	11	21	—	—	—
27	19	10	9	—	—	—	19	10	9	—	—	—
26	21	14	7	—	—	—	23	13	10	—	—	—
25	21	10	10	—	—	1	16	9	7	—	—	—
24	13	5	8	—	—	—	16	12	4	—	—	—
23	16	14	2	—	—	—	28	25	3	—	—	—
≤ 22	46	30	15	1	—	—	38	21	13	2	2	—
DOMESTIC												
Total	3,189	—	238	2,256	322	373	3,167	—	242	2,231	315	379
49	5	—	5	—	—	—	—	—	—	—	—	—
44	10	—	10	—	—	—	—	—	—	—	—	—
43	13	—	13	—	—	—	—	—	—	—	—	—
42	13	—	13	—	—	—	—	—	—	—	—	—

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

SUISUN BAY CHANNEL, CA - continued

Upbound

Downbound

FOREIGN

36	—	—	—	—	—	—	3	—	3	—	—	—
35	3	2	1	—	—	—	3	1	2	—	—	—
34	1	—	1	—	—	—	8	2	6	—	—	—
33	16	6	10	—	—	—	13	12	1	—	—	—
32	24	15	9	—	—	—	10	6	4	—	—	—
31	28	23	5	—	—	—	16	15	1	—	—	—
30	18	9	9	—	—	—	16	15	1	—	—	—
29	8	5	3	—	—	—	22	21	1	—	—	—
28	22	16	6	—	—	—	26	21	5	—	—	—
27	15	11	4	—	—	—	16	13	3	—	—	—
26	12	9	3	—	—	—	24	12	12	—	—	—
25	9	6	3	—	—	—	24	21	3	—	—	—
24	11	8	3	—	—	—	21	15	6	—	—	—
23	9	7	2	—	—	—	9	4	5	—	—	—
22	9	7	2	—	—	—	10	7	3	—	—	—
21	8	8	—	—	—	—	7	3	3	—	1	—
20	10	10	—	—	—	—	7	4	3	—	—	—
19	12	12	—	—	—	—	4	4	—	—	—	—
≤ 18	15	11	2	1	1	—	7	1	3	2	1	—

DOMESTIC

Total	701	23	30	327	186	135	709	23	29	329	194	134
37	2	—	2	—	—	—	—	—	—	—	—	—
36	1	—	1	—	—	—	—	—	—	—	—	—
35	—	—	—	—	—	—	1	—	1	—	—	—
33	1	—	1	—	—	—	1	—	1	—	—	—
32	4	—	4	—	—	—	2	—	2	—	—	—
31	3	—	3	—	—	—	1	—	1	—	—	—
30	10	—	10	—	—	—	—	—	—	—	—	—
29	1	—	1	—	—	—	—	—	—	—	—	—
28	3	—	3	—	—	—	—	—	—	—	—	—
26	2	1	1	—	—	—	5	1	3	—	—	1
25	1	—	1	—	—	—	4	—	4	—	—	—
24	—	—	—	—	—	—	1	—	—	—	—	1
23	—	—	—	—	—	—	1	—	—	—	—	1
21	—	—	—	—	—	—	12	—	1	—	—	11
20	27	—	1	24	2	—	38	—	1	28	—	9
19	11	—	1	—	—	—	34	—	—	—	—	34
≤ 18	635	22	1	303	184	125	609	22	15	301	194	77
Total trips:											194	1,895

HUMBOLDT HARBOR AND BAY, CA

Inbound

Outbound

Grand Total	1,054	498	158	334	27	37	1,069	495	158	347	37	32
--------------------	--------------	------------	------------	------------	-----------	-----------	--------------	------------	------------	------------	-----------	-----------

FOREIGN

Total	63	63	—	—	—	—	60	60	—	—	—	—
40	1	1	—	—	—	—	—	—	—	—	—	—
37	—	—	—	—	—	—	1	1	—	—	—	—
35	1	1	—	—	—	—	1	1	—	—	—	—
34	—	—	—	—	—	—	2	2	—	—	—	—
33	—	—	—	—	—	—	3	3	—	—	—	—
32	2	2	—	—	—	—	3	3	—	—	—	—
31	—	—	—	—	—	—	5	5	—	—	—	—
30	1	1	—	—	—	—	4	4	—	—	—	—
29	3	3	—	—	—	—	2	2	—	—	—	—
28	—	—	—	—	—	—	5	5	—	—	—	—
27	8	8	—	—	—	—	4	4	—	—	—	—
26	7	7	—	—	—	—	10	10	—	—	—	—
25	5	5	—	—	—	—	7	7	—	—	—	—
24	11	11	—	—	—	—	6	6	—	—	—	—
23	8	8	—	—	—	—	1	1	—	—	—	—
22	1	1	—	—	—	—	1	1	—	—	—	—
21	3	3	—	—	—	—	1	1	—	—	—	—
20	2	2	—	—	—	—	1	1	—	—	—	—
19	5	5	—	—	—	—	2	2	—	—	—	—
≤ 18	5	5	—	—	—	—	1	1	—	—	—	—

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
HUMBOLDT HARBOR AND BAY, CA - continued												
	Inbound						Outbound					
DOMESTIC												
Total	991	435	158	334	27	37	1,009	435	158	347	37	32
19	1					1						
≤ 18	990	435	158	334	27	36	1,009	435	158	347	37	32
										Total trips:		2,123
BERKELEY, CA (8 feet and less)												
	Inbound						Outbound					
Grand Total	741	741	---	---	---	---	743	743	---	---	---	1,484
										Total trips:		
BODEGA BAY, CA No Vessel Trips Reported												
CRESCENT CITY HARBOR, CA No Vessel Trips Reported												
MONTEREY HARBOR, CA No Vessel Trips Reported												
MOSS LANDING HARBOR, CA No Vessel Trips Reported												
NAPA RIVER, CA (13 feet and less)												
	Upbound						Downbound					
Grand Total	23	---	---	4	19	---	17	---	---	4	13	40
										Total trips:		
NOYO RIVER, CA No Vessel Trips Reported												
PETALUMA RIVER, CA (13 feet and less)												
	Upbound						Downbound					
Grand Total	280	---	---	137	143	---	284	---	---	140	144	564
										Total trips:		
PILLAR POINT HARBOR, CA No Vessel Trips Reported												
SAN RAFAEL CREEK, CA (7 feet and less)												
	Upbound						Downbound					
Grand Total	318	---	---	159	159	---	318	---	---	159	159	636
										Total trips:		
SANTA CRUZ HARBOR, CA (10 feet and less)												
	Inbound						Outbound					
Grand Total	427	427	---	---	---	---	427	427	---	---	---	854
										Total trips:		
SUISUN CHANNEL, CA No Vessel Trips Reported												

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

OTHER SAN FRANCISCO BAY AREA PORTS, CA
(50 feet and less)

	Inbound						Outbound					
Grand Total	23,038	21,164	308	978	479	109	22,961	21,055	315	977	508	106
										Total trips:		45,999

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
HILO HARBOR, HI												
	Inbound						Outbound					
Grand Total	937	74	1	419	356	87	848	43	1	364	358	82
FOREIGN												
Total	75	74	1	—	—	—	45	43	1	—	1	—
37	1	1	—	—	—	—	—	—	—	—	—	—
33	1	1	—	—	—	—	—	—	—	—	—	—
32	2	2	—	—	—	—	1	1	—	—	—	—
30	1	1	—	—	—	—	—	—	—	—	—	—
29	—	—	—	—	—	—	1	1	—	—	—	—
28	1	1	—	—	—	—	2	2	—	—	—	—
27	2	2	—	—	—	—	2	2	—	—	—	—
26	—	—	—	—	—	—	3	3	—	—	—	—
25	10	10	—	—	—	—	7	7	—	—	—	—
24	6	6	—	—	—	—	6	6	—	—	—	—
23	1	1	—	—	—	—	1	1	—	—	—	—
22	—	—	—	—	—	—	1	1	—	—	—	—
21	—	—	—	—	—	—	1	1	—	—	—	—
20	—	—	—	—	—	—	1	1	—	—	—	—
19	—	—	—	—	—	—	1	1	—	—	—	—
≤ 18	50	49	1	—	—	—	18	16	1	—	1	—
DOMESTIC												
Total	862	—	—	419	356	87	803	—	—	364	357	82
19	41	—	—	13	—	28	22	—	—	12	—	10
≤ 18	821	—	—	406	356	59	781	—	—	352	357	72
Total trips:											1,785	
KAWAIHAE HARBOR, HI												
	Inbound						Outbound					
Grand Total	776	—	—	294	476	6	790	—	—	308	476	6
DOMESTIC												
Total	776	—	—	294	476	6	790	—	—	308	476	6
19	17	—	—	11	—	6	15	—	—	11	—	4
≤ 18	759	—	—	283	476	—	775	—	—	297	476	2
Total trips:											1,566	
KAHULUI HARBOR, MAUI, HI												
	Inbound						Outbound					
Grand Total	1,259	22	—	534	615	88	1,229	22	—	513	613	81
FOREIGN												
Total	16	16	—	—	—	—	16	16	—	—	—	—
32	1	1	—	—	—	—	1	1	—	—	—	—
30	1	1	—	—	—	—	1	1	—	—	—	—
27	1	1	—	—	—	—	—	—	—	—	—	—
26	1	1	—	—	—	—	3	3	—	—	—	—
25	2	2	—	—	—	—	2	2	—	—	—	—
24	4	4	—	—	—	—	3	3	—	—	—	—
23	—	—	—	—	—	—	1	1	—	—	—	—
22	1	1	—	—	—	—	1	1	—	—	—	—
≤ 18	5	5	—	—	—	—	4	4	—	—	—	—
DOMESTIC												
Total	1,243	6	—	534	615	88	1,213	6	—	513	613	81
33	1	1	—	—	—	—	4	4	—	—	—	—
29	—	—	—	—	—	—	1	1	—	—	—	—
27	1	1	—	—	—	—	—	—	—	—	—	—
25	1	1	—	—	—	—	—	—	—	—	—	—
24	3	3	—	—	—	—	1	1	—	—	—	—
21	147	—	—	—	147	—	121	—	—	—	121	—
19	34	—	—	4	—	30	11	—	—	4	—	7
≤ 18	1,056	—	—	530	468	58	1,075	—	—	509	492	74
Total trips:											2,488	

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
BARBERS POINT HARBOR, OAHU, HI												
	Upbound						Downbound					
Grand Total	1,942	290	107	1,303	35	207	1,656	262	116	1,028	36	214
FOREIGN												
Total	112	33	79	---	---	---	125	32	93	---	---	---
55	1	---	1	---	---	---	---	---	---	---	---	---
52	4	---	4	---	---	---	---	---	---	---	---	---
51	2	---	2	---	---	---	---	---	---	---	---	---
50	3	---	3	---	---	---	---	---	---	---	---	---
49	2	---	2	---	---	---	2	1	1	---	---	---
48	2	---	2	---	---	---	1	---	1	---	---	---
47	4	---	4	---	---	---	5	---	5	---	---	---
46	2	---	2	---	---	---	---	---	---	---	---	---
45	3	---	3	---	---	---	1	---	1	---	---	---
44	3	1	2	---	---	---	1	---	1	---	---	---
43	5	---	5	---	---	---	1	---	1	---	---	---
42	1	---	1	---	---	---	---	---	---	---	---	---
41	3	---	3	---	---	---	1	---	1	---	---	---
40	2	---	2	---	---	---	2	---	2	---	---	---
39	---	---	---	---	---	---	1	---	1	---	---	---
38	---	---	---	---	---	---	3	---	3	---	---	---
37	2	1	1	---	---	---	3	---	3	---	---	---
36	13	10	3	---	---	---	6	---	6	---	---	---
35	1	---	1	---	---	---	7	1	6	---	---	---
34	3	2	1	---	---	---	5	---	5	---	---	---
33	7	4	3	---	---	---	11	1	10	---	---	---
32	---	---	---	---	---	---	10	2	8	---	---	---
31	---	---	---	---	---	---	1	---	1	---	---	---
30	3	1	2	---	---	---	7	1	6	---	---	---
29	3	---	3	---	---	---	2	1	1	---	---	---
28	2	---	2	---	---	---	11	4	7	---	---	---
27	2	---	2	---	---	---	1	---	---	---	---	---
26	2	---	2	---	---	---	3	2	1	---	---	---
25	5	---	5	---	---	---	4	1	3	---	---	---
24	4	1	3	---	---	---	8	8	---	---	---	---
23	1	---	1	---	---	---	4	---	4	---	---	---
22	2	1	1	---	---	---	8	3	5	---	---	---
21	2	1	1	---	---	---	---	---	---	---	---	---
20	3	3	---	---	---	---	9	3	6	---	---	---
19	6	4	2	---	---	---	---	---	---	---	---	---
18	1	---	1	---	---	---	---	---	---	---	---	---
17	1	---	1	---	---	---	4	2	2	---	---	---
16	---	---	---	---	---	---	1	---	1	---	---	---
15	6	2	4	---	---	---	---	---	---	---	---	---
14	1	---	1	---	---	---	---	---	---	---	---	---
13	3	---	3	---	---	---	---	---	---	---	---	---
≤ 12	2	2	---	---	---	---	1	1	---	---	---	---
DOMESTIC												
Total	1,830	257	28	1,303	35	207	1,531	230	23	1,028	36	214
55	3	---	3	---	---	---	---	---	---	---	---	---
54	1	---	1	---	---	---	---	---	---	---	---	---
53	1	---	1	---	---	---	---	---	---	---	---	---
52	2	---	2	---	---	---	---	---	---	---	---	---
49	6	---	6	---	---	---	---	---	---	---	---	---
48	4	---	4	---	---	---	---	---	---	---	---	---
47	1	---	1	---	---	---	---	---	---	---	---	---
45	1	---	1	---	---	---	---	---	---	---	---	---
43	5	---	5	---	---	---	---	---	---	---	---	---
42	1	---	1	---	---	---	---	---	---	---	---	---
40	2	---	2	---	---	---	---	---	---	---	---	---
36	1	---	1	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	1	---	1	---	---	---
30	---	---	---	---	---	---	4	---	4	---	---	---
25	---	---	---	---	---	---	1	---	1	---	---	---
19	13	---	---	---	---	13	49	---	---	---	---	49
18	2	---	---	---	---	---	1	---	1	---	---	---
17	10	---	---	---	---	10	55	---	---	---	---	55
16	1	---	---	1	---	---	1	---	---	1	---	---
15	26	---	---	2	---	24	29	---	---	2	---	27
14	2	---	---	2	---	---	6	---	---	4	---	---
13	27	---	---	27	---	---	31	---	---	31	---	---
≤ 12	1,721	257	---	1,271	35	158	1,353	230	16	990	34	83
										Total trips:		3,598

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
HONOLULU HARBOR, OAHU, HI												
Grand Total	Inbound						Outbound					
	8,994	3,586	62	2,729	2,247	370	8,911	3,550	50	2,729	2,223	359
FOREIGN												
Total	854	734	58	23	39	—	775	698	45	12	20	—
40	16	2	14	—	—	—	3	2	1	—	—	—
39	2	2	—	—	—	—	1	1	—	—	—	—
38	5	5	—	—	—	—	6	5	1	—	—	—
37	10	7	3	—	—	—	9	9	—	—	—	—
36	14	11	3	—	—	—	16	14	2	—	—	—
35	21	20	1	—	—	—	26	26	—	—	—	—
34	29	24	5	—	—	—	22	22	—	—	—	—
33	22	17	5	—	—	—	19	17	2	—	—	—
32	16	15	1	—	—	—	14	11	3	—	—	—
31	8	6	2	—	—	—	5	5	—	—	—	—
30	9	8	1	—	—	—	10	10	—	—	—	—
29	6	6	—	—	—	—	8	6	2	—	—	—
28	7	6	1	—	—	—	9	7	2	—	—	—
27	15	14	1	—	—	—	15	14	1	—	—	—
26	20	19	1	—	—	—	20	20	—	—	—	—
25	34	31	3	—	—	—	28	26	2	—	—	—
24	19	16	3	—	—	—	21	20	1	—	—	—
23	26	24	2	—	—	—	21	16	5	—	—	—
22	18	17	—	—	1	—	31	26	5	—	—	—
21	18	18	—	—	—	—	18	17	1	—	—	—
20	14	11	2	1	—	—	20	16	4	—	—	—
19	10	7	3	—	—	—	10	5	5	—	—	—
≤ 18	515	448	7	22	38	—	443	403	8	12	20	—
DOMESTIC												
Total	8,140	2,852	4	2,706	2,208	370	8,136	2,852	5	2,717	2,203	359
38	3	3	—	—	—	—	—	—	—	—	—	—
37	5	5	—	—	—	—	—	—	—	—	—	—
36	11	11	—	—	—	—	—	—	—	—	—	—
35	6	5	1	—	—	—	—	—	—	—	—	—
34	24	24	—	—	—	—	9	9	—	—	—	—
33	45	44	1	—	—	—	20	19	1	—	—	—
32	17	17	—	—	—	—	15	14	1	—	—	—
31	78	78	—	—	—	—	56	56	—	—	—	—
30	23	23	—	—	—	—	14	14	—	—	—	—
29	4	4	—	—	—	—	30	30	—	—	—	—
28	5	5	—	—	—	—	32	32	—	—	—	—
27	92	92	—	—	—	—	127	126	1	—	—	—
26	1	1	—	—	—	—	18	18	—	—	—	—
25	1	1	—	—	—	—	16	15	1	—	—	—
24	12	12	—	—	—	—	6	6	—	—	—	—
22	1	1	—	—	—	—	3	3	—	—	—	—
21	193	—	—	—	193	—	133	—	—	—	133	—
20	1,034	1,034	—	—	—	—	1,034	1,034	—	—	—	—
19	23	—	—	17	—	6	32	—	—	21	—	11
≤ 18	6,562	1,492	2	2,689	2,015	364	6,591	1,476	1	2,696	2,070	348
										Total trips:		17,905
NAWILIWILI HARBOR, KAUAI, HI												
Grand Total	Inbound						Outbound					
	631	22	—	271	329	9	623	22	—	265	327	9
FOREIGN												
Total	17	17	—	—	—	—	17	17	—	—	—	—
35	2	2	—	—	—	—	2	2	—	—	—	—
27	1	1	—	—	—	—	1	1	—	—	—	—
26	2	2	—	—	—	—	2	2	—	—	—	—
25	2	2	—	—	—	—	2	2	—	—	—	—
24	7	7	—	—	—	—	7	7	—	—	—	—
23	2	2	—	—	—	—	2	2	—	—	—	—
≤ 18	1	1	—	—	—	—	1	1	—	—	—	—
DOMESTIC												
Total	614	5	—	271	329	9	606	5	—	265	327	9
33	1	1	—	—	—	—	4	4	—	—	—	—
28	1	1	—	—	—	—	1	1	—	—	—	—
26	1	1	—	—	—	—	—	—	—	—	—	—
24	1	1	—	—	—	—	—	—	—	—	—	—

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
NAWILIWILI HARBOR, KAUAI, HI - continued												
	Inbound						Outbound					
DOMESTIC												
19 ≤ 18	609	1	—	270	329	9	600	—	—	264	327	9
	Total trips:										1,254	
HANA HARBOR, MAUI, HI No Vessel Trips Reported												
KAILUA HARBOR, OAHU, HI No Vessel Trips Reported												
KALAUPAPA HARBOR, MOLOKAI, HI (14 feet and less)												
	Inbound						Outbound					
Grand Total	1	—	—	1	—	—	1	—	—	1	—	—
	Total trips:										2	
KAUNAKAKAI HARBOR, MOLOKAI, HI (21 feet and less)												
	Inbound						Outbound					
Grand Total	1,125	270	—	243	612	—	1,115	270	—	238	607	—
	Total trips:										2,240	
PORT ALLEN HARBOR, KAUAI, HI (16 feet and less)												
	Inbound						Outbound					
Grand Total	640	603	—	33	4	—	643	603	—	37	3	—
	Total trips:										1,283	
WAKE ISLAND HARBOR, WAKE ISLAND (17 feet and less)												
	Inbound						Outbound					
Grand Total	1	—	1	—	—	—	1	—	1	—	—	—
	Total trips:										2	
WELLS HARBOR, MIDWAY ISLAND No Vessel Trips Reported												
PEARL HARBOR, OAHU, HI (36 feet and less)												
	Inbound						Outbound					
Grand Total	660	379	9	263	6	3	659	383	12	256	5	3
	Total trips:										1,319	

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
COLUMBIA RIVER AND TRIBUTARIES ABOVE MCNARY LOCK AND DAM TO KENNEWICK, WA												
	Upbound						Downbound					
Grand Total	3,516	189	---	1,187	1,526	614	3,905	215	---	1,092	1,819	779
DOMESTIC												
Total	3,516	189	---	1,187	1,526	614	3,905	215	---	1,092	1,819	779
17	8	---	---	---	---	8	7	---	---	---	7	---
16	1	---	---	---	---	1	118	---	---	---	118	---
15	7	---	---	---	---	7	24	---	---	---	24	---
14	69	---	---	---	17	52	457	---	---	---	228	229
13	46	---	---	---	5	41	497	---	---	---	378	119
≤ 12	3,385	189	---	1,187	1,504	505	2,802	215	---	1,092	1,064	431
										Total trips:		7,421
SNAKE RIVER, OR, WA AND ID												
	Upbound						Downbound					
Grand Total	4,997	1,848	---	1,262	1,282	605	5,073	1,921	---	1,041	1,503	608
DOMESTIC												
Total	4,997	1,848	---	1,262	1,282	605	5,073	1,921	---	1,041	1,503	608
17	8	---	---	---	---	8	5	---	---	---	5	---
16	1	---	---	---	---	1	74	---	---	---	74	---
15	7	---	---	---	---	7	17	---	---	---	17	---
14	70	---	---	---	18	52	339	---	---	---	183	156
13	55	---	---	---	5	50	397	---	---	---	309	88
12	60	---	---	11	16	33	346	---	---	13	242	91
11	147	42	---	73	---	32	169	42	---	39	79	9
10	526	5	---	431	69	21	537	5	---	416	112	4
9	488	---	---	460	1	27	326	---	---	277	42	7
8	234	18	---	144	42	30	202	18	---	144	40	---
7	115	---	---	76	6	33	107	---	---	81	22	4
6	69	27	---	3	---	39	43	29	---	5	7	2
5	89	2	---	64	1	22	92	---	---	66	23	3
4	80	---	---	---	12	68	113	---	---	---	18	95
3	615	---	---	---	450	165	336	---	---	---	194	142
2	2,359	1,754	---	---	588	17	1,896	1,827	---	---	62	7
1	74	---	---	---	74	---	74	---	---	---	74	---
										Total trips:		10,070

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WA AND PORTLAND, OR

Grand Total	Upbound						Downbound					
		33,486	9,395	289	13,790	7,649	2,363	32,566	9,320	268	12,776	7,953
FOREIGN												
Total	2,136	1,824	58	123	129	2	2,103	1,798	62	113	128	2
40	1	1	—	—	—	—	67	66	1	—	—	—
39	—	—	—	—	—	—	23	23	—	—	—	—
38	4	3	—	—	—	—	63	63	—	—	—	—
37	8	5	3	—	—	—	47	46	1	—	—	—
36	8	8	—	—	—	—	80	79	1	—	—	—
35	12	12	—	—	—	—	77	76	1	—	—	—
34	25	24	1	—	—	—	168	166	2	—	—	—
33	26	26	—	—	—	—	158	157	1	—	—	—
32	33	30	3	—	—	—	187	187	—	—	—	—
31	28	26	2	—	—	—	77	76	1	—	—	—
30	70	68	2	—	—	—	107	104	3	—	—	—
29	88	84	4	—	—	—	68	65	3	—	—	—
28	104	101	3	—	—	—	103	101	2	—	—	—
27	105	102	3	—	—	—	77	75	2	—	—	—
26	123	120	3	—	—	—	111	104	7	—	—	—
25	125	122	3	—	—	—	91	88	3	—	—	—
24	118	117	—	1	—	—	59	57	2	—	—	—
23	115	112	2	1	—	—	60	56	3	1	—	—
22	166	160	6	—	—	—	35	31	4	—	—	—
21	144	140	3	—	1	—	25	22	3	—	—	—
20	188	142	1	—	44	1	38	25	6	—	6	1
19	164	157	5	1	1	—	12	11	—	1	—	—
≤ 18	481	264	13	120	83	1	370	120	16	111	122	1
DOMESTIC												
Total	31,350	7,571	231	13,667	7,520	2,361	30,463	7,522	206	12,663	7,825	2,247
37	2	—	2	—	—	—	—	—	—	—	—	—
36	17	—	17	—	—	—	—	—	—	—	—	—
35	24	—	24	—	—	—	1	—	1	—	—	—
34	5	—	5	—	—	—	—	—	—	—	—	—
33	3	—	3	—	—	—	—	—	—	—	—	—
32	5	—	5	—	—	—	1	—	1	—	—	—
31	8	—	8	—	—	—	2	—	2	—	—	—
30	9	—	9	—	—	—	5	—	5	—	—	—
29	4	—	4	—	—	—	1	—	1	—	—	—
28	7	—	7	—	—	—	2	—	2	—	—	—
27	5	2	3	—	—	—	2	—	2	—	—	—
26	3	—	3	—	—	—	4	—	4	—	—	—
25	36	25	11	—	—	—	30	2	28	—	—	—
24	7	—	7	—	—	—	6	1	5	—	—	—
23	4	—	2	—	—	2	10	—	10	—	—	—
22	10	—	2	—	8	—	5	—	5	—	—	—
21	14	—	1	—	—	13	5	—	2	—	—	3
20	56	—	—	40	5	11	28	—	10	18	—	—
19	44	—	—	26	2	16	18	—	—	17	1	—
≤ 18	31,087	7,544	118	13,601	7,505	2,319	30,343	7,519	128	12,628	7,824	2,244
											Total trips:	66,052

PORT OF ASTORIA, OR

Grand Total	Inbound						Outbound					
		1,018	396	2	439	117	64	878	291	2	409	117
FOREIGN												
Total	311	199	1	75	36	—	193	86	1	70	36	—
37	—	—	—	—	—	—	1	1	—	—	—	—
34	2	1	1	—	—	—	1	—	1	—	—	—
31	1	1	—	—	—	—	1	1	—	—	—	—
30	2	2	—	—	—	—	—	—	—	—	—	—
27	2	2	—	—	—	—	—	—	—	—	—	—
26	3	3	—	—	—	—	—	—	—	—	—	—
25	6	6	—	—	—	—	—	—	—	—	—	—
24	7	7	—	—	—	—	—	—	—	—	—	—
23	10	10	—	—	—	—	1	1	—	—	—	—
22	17	17	—	—	—	—	—	—	—	—	—	—
21	8	8	—	—	—	—	—	—	—	—	—	—
20	12	12	—	—	—	—	—	—	—	—	—	—

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
PORT OF ASTORIA, OR - continued												
	Inbound						Outbound					
FOREIGN												
19	8	7	—	1	—	—	1	—	—	1	—	—
≤ 18	233	123	—	74	36	—	188	83	—	69	36	—
DOMESTIC												
Total	707	197	1	364	81	64	685	205	1	339	81	59
22	1	—	1	—	—	—	—	—	—	—	—	—
20	—	—	—	—	—	—	1	—	1	—	—	—
19	5	—	—	5	—	—	—	—	—	5	—	—
≤ 18	701	197	—	359	81	64	679	205	—	334	81	59
										Total trips:		1,896
PORTS OTHER THAN PORTLAND, ASTORIA, ST. HELENS, LONGVIEW, VANCOUVER AND KALAMA												
	Inbound						Outbound					
Grand Total	3,791	6	—	2,378	1,390	17	3,743	4	—	2,388	1,350	1
DOMESTIC												
Total	3,791	6	—	2,378	1,390	17	3,743	4	—	2,388	1,350	1
≤ 18	3,791	6	—	2,378	1,390	17	3,743	4	—	2,388	1,350	1
										Total trips:		7,534
PORT OF LONGVIEW, WA												
	Inbound						Outbound					
Grand Total	2,657	264	6	1,808	387	192	2,596	262	11	1,828	327	168
FOREIGN												
Total	289	262	6	10	11	—	285	260	11	6	8	—
38	1	1	—	—	—	—	1	1	—	—	—	—
37	1	1	—	—	—	—	3	3	—	—	—	—
36	1	1	—	—	—	—	7	6	1	—	—	—
35	2	2	—	—	—	—	8	7	1	—	—	—
34	2	2	—	—	—	—	29	29	—	—	—	—
33	1	1	—	—	—	—	37	37	—	—	—	—
32	—	—	—	—	—	—	54	54	—	—	—	—
31	1	—	1	—	—	—	19	18	1	—	—	—
30	3	3	—	—	—	—	18	17	1	—	—	—
29	2	2	—	—	—	—	15	15	—	—	—	—
28	12	12	—	—	—	—	10	10	—	—	—	—
27	9	9	—	—	—	—	9	9	—	—	—	—
26	18	18	—	—	—	—	14	13	1	—	—	—
25	22	22	—	—	—	—	9	9	—	—	—	—
24	22	22	—	—	—	—	13	12	1	—	—	—
23	12	12	—	—	—	—	6	4	2	—	—	—
22	26	24	2	—	—	—	3	2	1	—	—	—
21	25	24	1	—	—	—	5	4	1	—	—	—
20	27	27	—	—	—	—	4	4	—	—	—	—
19	50	47	2	—	1	—	2	2	—	—	—	—
18	23	23	—	—	—	—	3	3	—	—	—	—
17	2	2	—	—	—	—	—	—	—	—	—	—
16	3	2	—	1	—	—	1	—	1	—	—	—
15	1	1	—	—	—	—	1	—	—	—	1	—
14	6	2	—	2	2	—	5	—	—	1	4	—
13	1	—	—	1	—	—	—	—	—	—	—	—
≤ 12	16	2	—	6	8	—	9	1	—	5	3	—
DOMESTIC												
Total	2,368	2	—	1,798	376	192	2,311	2	—	1,822	319	168
19	1	—	—	1	—	—	1	—	—	1	—	—
18	—	—	—	—	—	—	1	—	—	—	—	1
17	8	—	—	—	—	8	—	—	—	—	—	—
16	43	—	—	17	15	11	19	—	—	19	—	—
15	9	—	—	6	—	3	6	—	—	6	—	—
14	49	—	—	25	23	1	31	—	—	16	15	—
13	53	—	—	31	22	—	22	—	—	21	1	—
≤ 12	2,205	2	—	1,718	316	169	2,231	2	—	1,759	303	167
										Total trips:		5,253

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
PORT OF KALAMA, WA												
Grand Total				Inbound						Outbound		
	1,547	125	9	1,088	204	121	1,726	175	10	1,046	433	62
FOREIGN												
Total	125	122	1	1	1	—	177	174	3	—	—	—
40	—	—	—	—	—	—	46	45	1	—	—	—
39	—	—	—	—	—	—	14	14	—	—	—	—
38	1	1	—	—	—	—	24	24	—	—	—	—
37	—	—	—	—	—	—	14	14	—	—	—	—
36	—	—	—	—	—	—	13	13	—	—	—	—
35	—	—	—	—	—	—	7	7	—	—	—	—
34	2	2	—	—	—	—	17	16	1	—	—	—
33	—	—	—	—	—	—	5	5	—	—	—	—
32	—	—	—	—	—	—	12	12	—	—	—	—
31	—	—	—	—	—	—	3	3	—	—	—	—
30	1	1	—	—	—	—	5	5	—	—	—	—
29	—	—	—	—	—	—	1	1	—	—	—	—
28	1	1	—	—	—	—	4	4	—	—	—	—
27	1	1	—	—	—	—	—	—	—	—	—	—
26	4	4	—	—	—	—	2	2	—	—	—	—
25	6	6	—	—	—	—	3	3	—	—	—	—
24	9	9	—	—	—	—	—	—	—	—	—	—
23	14	14	—	—	—	—	—	—	—	—	—	—
22	27	26	1	—	—	—	2	2	—	—	—	—
21	20	20	—	—	—	—	2	1	1	—	—	—
20	18	18	—	—	—	—	2	2	—	—	—	—
19	9	9	—	—	—	—	1	1	—	—	—	—
≤ 18	12	10	—	1	1	—	—	—	—	—	—	—
DOMESTIC												
Total	1,422	3	8	1,087	203	121	1,549	1	7	1,046	433	62
33	1	—	1	—	—	—	—	—	—	—	—	—
32	1	—	1	—	—	—	—	—	—	—	—	—
30	1	—	1	—	—	—	2	—	2	—	—	—
28	2	—	2	—	—	—	2	—	2	—	—	—
25	1	—	1	—	—	—	1	—	1	—	—	—
24	1	—	1	—	—	—	1	—	1	—	—	—
22	1	—	1	—	—	—	1	—	1	—	—	—
≤ 18	1,414	3	—	1,087	203	121	1,542	1	—	1,046	433	62
											Total trips:	3,273
MULTNOMAH CHANNEL, OR												
Grand Total				Upbound						Downbound		
	1,195	1	—	657	537	—	1,383	1	—	795	579	8
DOMESTIC												
Total	1,195	1	—	657	537	—	1,383	1	—	795	579	8
15	2	—	—	—	2	—	—	—	—	—	—	—
13	1	—	—	1	—	—	—	—	—	—	—	—
12	7	—	—	7	—	—	11	—	—	11	—	—
11	60	—	—	—	60	—	—	—	—	—	—	—
10	12	—	—	2	10	—	15	—	—	8	7	—
9	322	—	—	115	207	—	238	—	—	209	29	—
8	420	—	—	204	216	—	224	—	—	209	11	4
7	57	—	—	51	6	—	67	—	—	65	2	—
6	101	—	—	96	5	—	99	—	—	88	11	—
5	177	—	—	177	—	—	190	—	—	190	—	—
4	4	—	—	4	—	—	171	—	—	15	156	—
3	5	—	—	—	5	—	42	—	—	—	42	—
2	27	1	—	—	26	—	326	1	—	—	321	4
											Total trips:	2,578

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
PORT OF VANCOUVER, WA - continued												
	Inbound						Outbound					
FOREIGN												
25	22	19	3	—	—	—	17	17	—	—	—	—
24	17	17	—	—	—	—	13	13	—	—	—	—
23	21	19	2	—	—	—	12	12	—	—	—	—
22	35	33	2	—	—	—	7	5	2	—	—	—
21	31	31	—	—	—	—	5	4	1	—	—	—
20	27	27	—	—	—	—	3	2	1	—	—	—
19	33	33	—	—	—	—	2	2	—	—	—	—
≤ 18	39	36	3	—	—	—	7	6	1	—	—	—
DOMESTIC												
Total	3,999	54	1	2,887	640	417	3,812	31	1	2,987	472	321
30	—	—	—	—	—	—	1	—	1	—	—	—
29	1	—	1	—	—	—	—	—	—	—	—	—
27	2	—	—	—	—	—	—	—	—	—	—	—
25	25	25	—	—	—	—	2	2	—	—	—	—
24	—	—	—	—	—	—	1	1	—	—	—	—
23	1	—	—	—	—	1	—	—	—	—	—	—
22	1	—	—	—	1	—	—	—	—	—	—	—
21	2	—	—	—	—	2	1	—	—	—	—	1
20	8	—	—	8	—	—	7	—	—	7	—	—
19	4	—	—	4	—	—	5	—	—	4	1	—
≤ 18	3,955	27	—	2,875	639	414	3,795	28	—	2,976	471	320
										Total trips:		8,483

COLUMBIA RIVER BETWEEN VANCOUVER, WA AND THE DALLES, OR												
	Upbound						Downbound					
Grand Total	6,316	647	—	1,586	3,073	1,010	6,315	662	—	1,574	3,101	978
DOMESTIC												
Total	6,316	647	—	1,586	3,073	1,010	6,315	662	—	1,574	3,101	978
17	8	—	—	—	—	8	9	—	—	—	9	—
16	3	—	—	2	—	1	133	—	—	—	133	—
15	7	—	—	—	—	7	27	—	—	—	27	—
14	77	—	—	—	18	59	447	—	—	—	261	186
13	76	—	—	3	17	56	413	—	1	—	271	141
12	227	—	—	59	37	131	698	—	62	—	372	264
11	285	42	—	120	84	39	292	42	92	—	135	23
10	474	5	—	259	170	40	578	5	230	—	310	33
9	208	—	—	95	41	72	254	—	165	—	79	10
8	471	17	—	321	84	49	495	17	336	—	138	4
7	394	—	—	310	41	43	315	—	287	—	23	5
≤ 6	4,086	583	—	417	2,581	505	2,654	598	401	—	1,343	312
										Total trips:		12,631

COLUMBIA RIVER ABOVE THE DALLES DAM, WA AND OR TO MCNARY LOCK AND DAM, OR AND WA												
	Upbound						Downbound					
Grand Total	3,946	179	—	855	1,986	926	4,071	191	—	796	1,968	1,116
DOMESTIC												
Total	3,946	179	—	855	1,986	926	4,071	191	—	796	1,968	1,116
17	8	—	—	—	—	8	9	—	—	—	9	—
16	1	—	—	—	—	1	132	—	—	—	132	—
15	8	—	—	—	—	8	26	—	—	—	26	—
14	80	—	—	—	18	62	572	—	—	—	260	312
13	75	—	—	—	16	59	410	—	—	—	267	143
12	190	—	—	41	20	129	675	—	43	—	373	259
11	251	42	—	114	57	38	282	42	85	—	133	22
10	416	5	—	218	156	37	419	5	177	—	208	29
9	170	—	—	96	2	72	197	—	121	—	66	10
8	348	17	—	201	80	50	343	17	188	—	134	4
7	130	—	—	71	16	43	82	—	55	—	22	5
6	93	31	—	4	3	55	62	41	6	—	10	5
5	170	20	—	110	6	34	170	10	121	—	27	12
4	323	—	—	—	266	57	136	—	—	—	31	105
3	742	—	—	—	508	234	371	—	—	—	172	199

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

COLUMBIA RIVER ABOVE THE DALLES DAM, WA AND OR TO McNARY LOCK AND DAM, OR AND WA - continued
Upbound Downbound

DOMESTIC

2	933	64	—	—	830	39	184	76	—	—	97	11
1	8	—	—	—	8	—	1	—	—	—	1	—
Total trips:											8,017	

PORT OF PORTLAND, OR

	Inbound						Outbound					
Grand Total	18,226	2,099	131	8,493	5,506	1,997	18,203	2,131	127	8,741	5,231	1,973

FOREIGN

Total	1,060	905	35	37	81	2	1,127	971	33	37	84	2
40	1	1	—	—	—	—	17	17	—	—	—	—
39	—	—	—	—	—	—	7	7	—	—	—	—
38	1	—	1	—	—	—	26	26	—	—	—	—
37	4	1	3	—	—	—	24	24	—	—	—	—
36	5	5	—	—	—	—	41	41	—	—	—	—
35	3	3	—	—	—	—	40	40	—	—	—	—
34	13	13	—	—	—	—	91	91	—	—	—	—
33	16	16	—	—	—	—	100	99	1	—	—	—
32	25	22	3	—	—	—	80	80	—	—	—	—
31	20	19	1	—	—	—	35	35	—	—	—	—
30	55	54	1	—	—	—	67	65	2	—	—	—
29	66	63	3	—	—	—	37	36	1	—	—	—
28	76	75	1	—	—	—	71	71	—	—	—	—
27	80	77	3	—	—	—	55	53	2	—	—	—
26	71	69	2	—	—	—	73	71	2	—	—	—
25	69	69	—	—	—	—	62	59	3	—	—	—
24	63	62	—	1	—	—	33	32	1	—	—	—
23	58	57	—	1	—	—	41	39	1	1	—	—
22	61	60	1	—	—	—	23	22	1	—	—	—
21	60	57	2	—	1	—	13	13	—	—	—	—
20	104	58	1	—	44	1	29	17	5	—	6	1
19	64	61	3	—	—	—	6	6	—	—	—	—
≤ 18	145	63	10	35	36	1	156	27	14	36	78	1

DOMESTIC

Total	17,166	1,194	96	8,456	5,425	1,995	17,076	1,160	94	8,704	5,147	1,971
37	2	—	2	—	—	—	—	—	—	—	—	—
36	18	—	18	—	—	—	1	—	1	—	—	—
35	22	—	22	—	—	—	1	—	1	—	—	—
34	5	—	5	—	—	—	—	—	—	—	—	—
33	2	—	2	—	—	—	—	—	—	—	—	—
32	3	—	3	—	—	—	2	—	2	—	—	—
31	10	—	10	—	—	—	5	—	5	—	—	—
30	3	—	3	—	—	—	4	—	4	—	—	—
29	4	—	4	—	—	—	1	—	1	—	—	—
28	4	—	4	—	—	—	4	—	4	—	—	—
27	3	—	3	—	—	—	2	—	2	—	—	—
26	2	—	2	—	—	—	4	—	4	—	—	—
25	9	—	9	—	—	—	30	—	30	—	—	—
24	4	—	4	—	—	—	4	—	4	—	—	—
23	3	—	2	—	—	1	10	—	10	—	—	—
22	8	—	1	—	7	—	3	—	3	—	—	—
21	12	—	1	—	—	11	4	—	2	—	—	2
20	44	—	—	28	5	11	29	—	8	20	—	1
19	33	—	—	15	2	16	16	—	—	15	—	—
≤ 18	16,975	1,194	1	8,413	5,411	1,956	16,956	1,160	13	8,669	5,146	1,968
Total trips:											36,429	

WILLAMETTE RIVER ABOVE PORTLAND AND YAMHILL RIVER, OR
Upbound Downbound

Grand Total	5,563	377	—	2,577	2,609	—	5,762	407	—	2,706	2,649	—
--------------------	--------------	------------	----------	--------------	--------------	----------	--------------	------------	----------	--------------	--------------	----------

DOMESTIC

Total	5,563	377	—	2,577	2,609	—	5,762	407	—	2,706	2,649	—
10	2	—	—	—	2	—	27	—	—	1	26	—

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

WILLAMETTE RIVER ABOVE PORTLAND AND YAMHILL RIVER, OR - continued

DOMESTIC

	Upbound						Downbound					
9	1	—	—	1	—	—	14	—	—	3	11	—
8	—	—	—	—	—	—	2	—	—	—	2	—
7	149	124	—	25	—	—	205	124	—	70	11	—
6	2,102	93	—	2,009	—	—	2,157	93	—	2,020	44	—
5	377	—	—	22	355	—	223	—	—	37	186	—
4	691	160	—	520	11	—	2,474	175	—	575	1,724	—
3	36	—	—	—	36	—	281	15	—	—	266	—
2	2,205	—	—	—	2,205	—	379	—	—	—	379	—
										Total trips:		11,325

COOS BAY, OR

	Inbound						Outbound					
Grand Total	2,291	177	188	1,490	361	75	2,300	176	188	1,494	375	67

FOREIGN

Total	187	177	—	1	9	—	201	176	—	8	17	—
38	10	10	—	—	—	—	—	—	—	—	—	—
37	13	13	—	—	—	—	—	—	—	—	—	—
36	—	—	—	—	—	—	2	2	—	—	—	—
35	1	1	—	—	—	—	16	16	—	—	—	—
34	3	3	—	—	—	—	32	32	—	—	—	—
33	3	3	—	—	—	—	25	25	—	—	—	—
32	2	2	—	—	—	—	15	15	—	—	—	—
31	2	2	—	—	—	—	14	14	—	—	—	—
30	7	7	—	—	—	—	12	12	—	—	—	—
29	15	15	—	—	—	—	5	5	—	—	—	—
28	21	21	—	—	—	—	10	10	—	—	—	—
27	28	28	—	—	—	—	12	12	—	—	—	—
26	13	12	—	—	1	—	6	6	—	—	—	—
25	14	14	—	—	—	—	9	9	—	—	—	—
24	11	11	—	—	—	—	13	13	—	—	—	—
23	7	7	—	—	—	—	1	1	—	—	—	—
22	10	10	—	—	—	—	—	—	—	—	—	—
21	6	6	—	—	—	—	1	1	—	—	—	—
20	6	6	—	—	—	—	1	1	—	—	—	—
19	2	2	—	—	—	—	—	—	—	—	—	—
18	1	—	—	—	1	—	1	—	—	—	1	—
17	1	1	—	—	—	—	3	1	—	1	1	—
16	5	—	—	—	5	—	7	—	—	2	5	—
15	2	—	—	—	2	—	3	—	—	1	2	—
14	2	1	—	1	—	—	2	—	—	2	—	—
≤ 12	2	2	—	—	—	—	11	1	—	2	8	—

DOMESTIC

Total	2,104	—	188	1,489	352	75	2,099	—	188	1,486	358	67
21	3	—	—	—	—	3	1	—	—	—	—	1
20	2	—	—	—	—	2	1	—	—	—	—	1
19	7	—	—	5	—	2	4	—	—	4	—	—
18	2	—	—	—	—	2	—	—	—	—	—	—
17	11	—	—	—	—	11	1	—	—	—	—	1
16	48	—	—	42	2	4	36	—	—	34	2	—
15	14	—	—	13	1	—	10	—	—	10	—	—
14	21	—	—	20	1	—	24	—	—	21	3	—
13	40	—	—	39	—	1	44	—	—	36	8	—
≤ 12	1,956	—	188	1,370	348	50	1,978	—	188	1,381	345	64
										Total trips:		4,591

COLUMBIA RIVER SYSTEM

	Upbound						Downbound					
Grand Total	41,465	12,011	916	15,706	9,950	2,882	35,789	9,125	895	15,544	8,170	2,055

FOREIGN

Total	2,136	1,824	58	123	129	2	2,103	1,798	62	113	128	2
40	1	1	—	—	—	—	67	66	1	—	—	—
39	—	—	—	—	—	—	23	23	—	—	—	—

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels		
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	
COLUMBIA RIVER SYSTEM - continued													
	Upbound						Downbound						
DOMESTIC													
	2 1	5,833 224	1,853 —	— —	138 —	3,453 86	527 —	10,295 215	6,316 —	— —	138 77	3,453 77	526 —
											Total trips:	77,254	
ALSEA BAY AND RIVER, OR No Vessel Trips Reported													
CHETCO RIVER, OR (7 feet and less)													
	Upbound						Downbound						
Grand Total	27	—	—	14	13	—	28	—	—	14	14	—	55
											Total trips:	6	
CHINOOK CHANNEL, WA No Vessel Trips Reported													
CLATSKANIE RIVER, OR (6 feet and less)													
	Upbound						Downbound						
Grand Total	3	—	—	3	—	—	3	—	—	3	—	—	6
											Total trips:	6	
COLUMBIA RIVER AT BAKERS BAY, WA (5 feet and less)													
	Upbound						Downbound						
Grand Total	439	—	439	—	—	—	439	—	439	—	—	—	878
											Total trips:	878	
COLUMBIA SLOUGH, OR No Vessel Trips Reported													
COOS AND MILLICOMA RIVERS, OR (8 feet and less)													
	Upbound						Downbound						
Grand Total	315	—	—	315	—	—	313	—	—	313	—	—	628
											Total trips:	628	
COQUILLE RIVER, OR (6 feet and less)													
	Upbound						Downbound						
Grand Total	27	—	—	—	27	—	27	—	—	—	27	—	54
											Total trips:	54	
COWLITZ RIVER, WA No Vessel Trips Reported													
DEEP RIVER, WA (7 feet and less)													
	Upbound						Downbound						
Grand Total	8	—	—	8	—	—	10	—	—	10	—	—	18
											Total trips:	18	
DEPOE BAY, OR No Vessel Trips Reported													

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
ELOKOMIN SLOUGH, WA No Vessel Trips Reported												
GRAYS RIVER, WA No Vessel Trips Reported												
LAKE RIVER, WA (6 feet and less)												
	Upbound						Downbound					
Grand Total	57	57	---	---	---	---	57	57	---	---	---	---
	Total trips:										---	114
LEWIS RIVER, WA No Vessel Trips Reported												
PORT OF ST. HELENS, OR (12 feet and less)												
	Inbound						Outbound					
Grand Total	53	---	46	5	2	---	53	---	46	5	2	---
	Total trips:										2	106
PORT ORFORD, OR No Vessel Trips Reported												
ROGUE RIVER, OR (7 feet and less)												
	Upbound						Downbound					
Grand Total	2,063	1,999	---	32	32	---	2,064	1,999	---	32	33	---
	Total trips:										33	4,127
SIUSLAW RIVER, OR No Vessel Trips Reported												
SKAMOKAWA (STEAMBOAT) SLOUGH, WA No Vessel Trips Reported												
SKAMOKAWA CREEK, WA (5 feet and less)												
	Upbound						Downbound					
Grand Total	2	---	---	1	1	---	2	---	---	1	1	---
	Total trips:										1	4
SKIPANON CHANNEL, OR (12 feet and less)												
	Upbound						Downbound					
Grand Total	81	---	---	29	52	---	74	---	---	21	53	---
	Total trips:										53	155
SMITH RIVER, OR No Vessel Trips Reported												
TILLAMOOK BAY AND BAR, OR No Vessel Trips Reported												
UMPQUA RIVER, OR (14 feet and less)												
	Upbound						Downbound					
Grand Total	245	---	---	129	116	---	243	---	---	128	115	---
	Total trips:										115	488

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
WESTPORT SLOUGH, OR (10 feet and less)												
				Upbound						Downbound		
Grand Total	5,945	5,940	---	---	---	5	6,503	6,498	---	1	---	4
										Total trips:		12,448
YAQUINA BAY AND HARBOR, OR (30 feet and less)												
				Upbound						Downbound		
Grand Total	16	11	---	1	1	3	17	13	---	---	---	4
										Total trips:		33
YAQUINA RIVER, OR No Vessel Trips Reported												
YOUNGS BAY AND YOUNGS RIVER, OR (12 feet and less)												
				Upbound						Downbound		
Grand Total	32	---	---	20	12	---	30	---	---	20	10	---
										Total trips:		62

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
GRAYS HARBOR AND CHEHALIS RIVER, WA												
Grand Total	Inbound						Outbound					
	1,499	125	342	569	460	3	1,593	119	342	619	496	17
FOREIGN												
Total	126	125	—	—	1	—	120	119	—	—	1	—
36	—	—	—	—	—	—	3	3	—	—	—	—
35	—	—	—	—	—	—	4	4	—	—	—	—
34	—	—	—	—	—	—	9	9	—	—	—	—
33	3	3	—	—	—	—	29	29	—	—	—	—
32	3	3	—	—	—	—	11	11	—	—	—	—
31	1	1	—	—	—	—	3	3	—	—	—	—
30	2	2	—	—	—	—	10	10	—	—	—	—
29	3	3	—	—	—	—	3	3	—	—	—	—
28	9	9	—	—	—	—	6	6	—	—	—	—
27	4	4	—	—	—	—	9	9	—	—	—	—
26	9	9	—	—	—	—	7	7	—	—	—	—
25	4	4	—	—	—	—	8	8	—	—	—	—
24	3	3	—	—	—	—	1	1	—	—	—	—
23	8	8	—	—	—	—	3	3	—	—	—	—
22	9	9	—	—	—	—	2	2	—	—	—	—
21	11	11	—	—	—	—	—	—	—	—	—	—
20	23	23	—	—	—	—	2	2	—	—	—	—
19	10	10	—	—	—	—	3	3	—	—	—	—
18	5	5	—	—	—	—	1	1	—	—	—	—
17	4	4	—	—	—	—	—	—	—	—	—	—
16	1	1	—	—	—	—	—	—	—	—	—	—
15	—	—	—	—	—	—	1	—	—	—	1	—
14	1	—	—	—	1	—	—	—	—	—	—	—
≤ 12	13	13	—	—	—	—	5	5	—	—	—	—
DOMESTIC												
Total	1,373	—	342	569	459	3	1,473	—	342	619	495	17
19	2	—	—	2	—	—	2	—	—	2	—	—
16	12	—	—	12	—	—	16	—	—	15	—	1
15	4	—	—	4	—	—	12	—	—	8	3	1
14	5	—	—	5	—	—	13	—	—	5	8	—
13	20	—	—	20	—	—	33	—	—	30	3	—
≤ 12	1,330	—	342	526	459	3	1,397	—	342	559	481	15
											Total trips:	3,092
PORT ANGELES HARBOR, WA												
Grand Total	Inbound						Outbound					
	2,796	113	30	1,988	218	447	2,775	90	31	1,976	224	454
FOREIGN												
Total	305	112	6	92	95	—	274	89	4	84	95	2
47	—	—	—	—	—	—	1	1	—	—	—	—
40	1	1	—	—	—	—	1	1	—	—	—	—
36	1	1	—	—	—	—	2	1	1	—	—	—
35	1	1	—	—	—	—	—	—	—	—	—	—
34	2	1	1	—	—	—	2	2	—	—	—	—
33	—	—	—	—	—	—	1	1	—	—	—	—
32	1	1	—	—	—	—	6	6	—	—	—	—
30	2	1	1	—	—	—	7	7	—	—	—	—
29	1	1	—	—	—	—	—	—	—	—	—	—
28	2	—	2	—	—	—	4	4	—	—	—	—
27	1	1	—	—	—	—	2	2	—	—	—	—
26	3	3	—	—	—	—	5	4	1	—	—	—
25	—	—	—	—	—	—	1	1	—	—	—	—
24	6	5	1	—	—	—	8	8	—	—	—	—
23	2	2	—	—	—	—	4	3	1	—	—	—
22	2	1	—	—	1	—	1	—	1	—	—	—
21	3	3	—	—	—	—	2	2	—	—	—	—
20	9	8	—	—	1	—	2	1	—	—	1	—
19	8	3	1	4	—	—	5	2	—	3	—	—
≤ 18	260	79	—	88	93	—	220	43	—	81	94	2

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
PORT ANGELES HARBOR, WA - continued												
	Inbound						Outbound					
DOMESTIC												
Total	2,491	1	24	1,896	123	447	2,501	1	27	1,892	129	452
36	2	—	2	—	—	—	2	—	—	—	—	—
32	—	—	—	—	—	—	1	—	1	—	—	—
31	—	—	—	—	—	—	1	—	1	—	—	—
24	—	—	—	—	—	—	1	—	1	—	—	—
22	372	—	—	372	—	—	343	—	—	343	—	—
20	2	—	—	—	—	2	3	—	—	—	—	3
19	16	—	—	7	—	9	3	—	—	3	—	—
≤ 18	2,099	1	22	1,517	123	436	2,147	1	22	1,546	129	449
										Total trips:		5,571
PORT TOWNSEND HARBOR, WA												
	Inbound						Outbound					
Grand Total	4,816	4,375	1	193	230	17	4,495	4,062	1	181	235	16
FOREIGN												
Total	43	10	—	13	20	—	38	5	—	15	18	—
20	43	10	—	13	20	—	38	5	—	15	18	—
DOMESTIC												
Total	4,773	4,365	1	180	210	17	4,457	4,057	1	166	217	16
20	4,773	4,365	1	180	210	17	4,457	4,057	1	166	217	16
										Total trips:		9,311
HAMMERSLEY INLET, WA												
	Upbound						Downbound					
Grand Total	548	—	—	322	226	—	527	—	—	316	211	—
DOMESTIC												
Total	548	—	—	322	226	—	527	—	—	316	211	—
13	11	—	—	11	11	—	—	—	—	—	—	—
11	42	—	—	42	—	—	44	—	—	44	—	—
10	175	—	—	175	—	—	175	—	—	175	—	—
9	22	—	—	22	—	—	21	—	—	21	—	—
8	36	—	—	36	—	—	63	—	—	51	12	—
7	34	—	—	34	—	—	39	—	—	14	25	—
≤ 6	228	—	—	13	215	—	185	—	—	11	174	—
										Total trips:		1,075
OLYMPIA HARBOR, WA												
	Inbound						Outbound					
Grand Total	395	15	—	269	107	4	397	21	—	260	112	4
FOREIGN												
Total	18	15	—	1	2	—	24	21	—	1	2	—
33	—	—	—	—	—	—	2	2	—	—	—	—
32	—	—	—	—	—	—	3	3	—	—	—	—
31	—	—	—	—	—	—	1	1	—	—	—	—
30	—	—	—	—	—	—	1	1	—	—	—	—
29	1	1	—	—	—	—	—	—	—	—	—	—
28	1	1	—	—	—	—	4	4	—	—	—	—
27	2	2	—	—	—	—	3	3	—	—	—	—
26	2	2	—	—	—	—	—	—	—	—	—	—
25	2	2	—	—	—	—	1	1	—	—	—	—
24	—	—	—	—	—	—	1	1	—	—	—	—
23	2	2	—	—	—	—	—	—	—	—	—	—
≤ 18	8	5	—	1	2	—	8	5	—	1	2	—

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
TACOMA HARBOR, WA - continued												
	Inbound						Outbound					
DOMESTIC												
≤ 12	14,662	7,686	32	4,915	852	1,177	14,787	7,686	63	4,899	916	1,223
	Total trips: 44,250											
SEATTLE HARBOR, WA												
	Inbound						Outbound					
Grand Total	51,573	34,231	106	12,571	2,639	2,026	51,848	34,282	108	12,680	2,747	2,031
FOREIGN												
Total	2,713	1,085	9	783	832	4	2,861	1,148	8	811	888	6
38	15	14	1	—	—	—	65	65	—	—	—	—
37	12	12	—	—	—	—	24	24	—	—	—	—
36	36	36	—	—	—	—	141	141	—	—	—	—
35	38	37	1	—	—	—	8	8	—	—	—	—
34	57	53	4	—	—	—	52	50	1	—	1	—
33	76	76	—	—	—	—	65	62	3	—	—	—
32	61	61	—	—	—	—	83	83	—	—	—	—
31	61	61	—	—	—	—	47	47	—	—	—	—
30	78	78	—	—	—	—	58	54	2	1	1	—
29	73	72	1	—	—	—	122	122	—	—	—	—
28	66	66	—	—	—	—	26	26	—	—	—	—
27	87	86	—	1	—	—	62	61	—	1	—	—
26	59	59	—	—	—	—	57	57	—	—	—	—
25	48	48	—	—	—	—	33	32	—	—	—	1
24	57	57	—	—	—	—	58	57	1	—	—	—
23	58	57	1	—	—	—	46	46	—	—	—	—
22	38	37	—	1	—	—	24	24	—	—	—	—
21	29	28	1	—	—	—	29	29	—	—	—	—
20	35	18	—	2	15	—	22	21	—	1	—	—
19	13	9	—	2	2	—	10	7	—	3	—	—
≤ 18	1,716	120	—	777	815	4	1,829	132	1	805	886	5
DOMESTIC												
Total	48,860	33,146	97	11,788	1,807	2,022	48,987	33,134	100	11,869	1,859	2,025
34	4	4	—	—	—	—	6	6	—	—	—	—
33	3	3	—	—	—	—	7	7	—	—	—	—
32	6	5	1	—	—	—	12	12	—	—	—	—
31	3	3	—	—	—	—	13	13	—	—	—	—
30	6	5	1	—	—	—	7	7	—	—	—	—
29	9	9	—	—	—	—	13	12	1	—	—	—
28	12	12	—	—	—	—	10	10	—	—	—	—
27	17	16	1	—	—	—	9	9	—	—	—	—
26	22	22	—	—	—	—	11	11	—	—	—	—
25	11	10	1	—	—	—	10	10	—	—	—	—
24	5	4	—	—	—	1	5	4	1	—	—	—
23	3	3	—	—	—	—	3	3	—	—	—	—
22	229	—	—	229	—	—	229	—	—	229	—	—
21	1	1	—	—	—	—	—	—	—	—	—	—
20	39	1	—	37	—	1	36	1	—	34	1	—
19	34	—	—	24	1	9	24	—	—	20	1	3
≤ 18	48,456	33,048	93	11,498	1,806	2,011	48,592	33,029	98	11,586	1,857	2,022
	Total trips: 103,421											
LAKE WASHINGTON SHIP CANAL, WA												
	Upbound						Downbound					
Grand Total	4,074	1,801	3	1,495	676	99	3,665	1,804	1	1,105	672	83
FOREIGN												
Total	161	43	2	59	57	—	252	53	—	100	99	—
36	—	—	—	—	—	—	1	1	—	—	—	—
34	1	—	1	—	—	—	—	—	—	—	—	—
30	—	—	—	—	—	—	2	1	—	1	—	—
27	—	—	—	—	—	—	1	1	—	—	—	—
24	—	—	—	—	—	—	2	2	—	—	—	—
≤ 22	160	43	1	59	57	—	246	48	—	99	99	—

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

LAKE WASHINGTON SHIP CANAL, WA - continued
Upbound

Downbound

DOMESTIC

Total	3,913	1,758	1	1,436	619	99	3,413	1,751	1	1,005	573	83
≤ 22	3,913	1,758	1	1,436	619	99	3,413	1,751	1	1,005	573	83
											Total trips:	7,739

EVERETT HARBOR AND SNOHOMISH RIVER, WA
Inbound

Outbound

Grand Total	3,139	737	—	1,751	589	62	2,929	738	1	1,670	458	62
--------------------	--------------	------------	----------	--------------	------------	-----------	--------------	------------	----------	--------------	------------	-----------

FOREIGN

Total	340	72	—	115	153	—	231	72	1	63	95	—
37	2	2	—	—	—	—	—	—	—	—	—	—
36	1	1	—	—	—	—	—	—	—	—	—	—
35	—	—	—	—	—	—	1	1	—	—	—	—
34	3	3	—	—	—	—	—	—	—	—	—	—
33	1	1	—	—	—	—	—	—	—	—	—	—
32	2	2	—	—	—	—	13	12	1	—	—	—
31	—	—	—	—	—	—	5	5	—	—	—	—
30	7	7	—	—	—	—	12	12	—	—	—	—
29	3	3	—	—	—	—	1	1	—	—	—	—
28	3	3	—	—	—	—	6	6	—	—	—	—
27	1	1	—	—	—	—	1	1	—	—	—	—
26	3	3	—	—	—	—	5	5	—	—	—	—
25	4	4	—	—	—	—	3	3	—	—	—	—
24	5	5	—	—	—	—	3	3	—	—	—	—
23	5	5	—	—	—	—	4	4	—	—	—	—
22	1	1	—	—	—	—	3	3	—	—	—	—
21	1	1	—	—	—	—	—	—	—	—	—	—
20	6	6	—	—	—	—	—	—	—	—	—	—
19	3	3	—	—	—	—	—	—	—	—	—	—
≤ 18	289	21	—	115	153	—	174	16	—	63	95	—

DOMESTIC

Total	2,799	665	—	1,636	436	62	2,698	666	—	1,607	363	62
22	42	—	—	42	—	—	32	—	—	32	—	—
≤ 18	2,757	665	—	1,594	436	62	2,666	666	—	1,575	363	62
											Total trips:	6,068

ANACORTES HARBOR, WA

Inbound

Outbound

Grand Total	9,857	7,055	203	2,039	76	484	9,895	7,113	203	2,031	55	493
--------------------	--------------	--------------	------------	--------------	-----------	------------	--------------	--------------	------------	--------------	-----------	------------

FOREIGN

Total	327	38	24	134	68	63	291	43	19	118	46	65
47	—	—	—	—	—	—	1	—	1	—	—	—
45	—	—	—	—	—	—	2	—	2	—	—	—
44	1	1	—	—	—	—	—	—	—	—	—	—
43	—	—	—	—	—	—	1	—	1	—	—	—
41	1	—	1	—	—	—	1	—	1	—	—	—
40	4	—	4	—	—	—	2	—	2	—	—	—
39	—	—	—	—	—	—	1	—	1	—	—	—
38	1	—	1	—	—	—	—	—	—	—	—	—
37	1	—	1	—	—	—	1	1	—	—	—	—
36	2	1	1	—	—	—	2	1	1	—	—	—
35	2	—	2	—	—	—	1	—	1	—	—	—
34	1	—	1	—	—	—	1	1	—	—	—	—
33	1	—	1	—	—	—	1	1	—	—	—	—
32	1	—	1	—	—	—	—	—	—	—	—	—
31	—	—	—	—	—	—	2	1	1	—	—	—
30	1	—	1	—	—	—	1	1	—	—	—	—
28	1	—	1	—	—	—	1	1	—	—	—	—
27	2	1	1	—	—	—	2	1	1	—	—	—
26	1	—	1	—	—	—	2	2	—	—	—	—
25	2	1	1	—	—	—	2	—	2	—	—	—
24	1	1	—	—	—	—	—	—	—	—	—	—

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
BELLINGHAM BAY AND HARBOR, WA - continued												
	Inbound						Outbound					
DOMESTIC												
≤ 18	1,400	459	—	825	74	42	1,377	460	—	816	59	42
										Total trips:		4,069
BLAINE HARBOR, WA (6 feet and less)												
	Inbound						Outbound					
Grand Total	1	—	—	1	—	—	1	—	—	1	—	—
										Total trips:		2
COLUMBIA RIVER BETWEEN WENATCHEE AND KETTLE FALLS, WA (8 feet and less)												
	Upbound						Downbound					
Grand Total	13,922	13,900	—	22	—	—	13,910	13,900	—	10	—	—
										Total trips:		27,832
FLATHEAD LAKE, MT No Vessel Trips Reported												
HOQUIAM RIVER, WA (16 feet and less)												
	Upbound						Downbound					
Grand Total	377	—	—	225	152	—	373	—	—	221	152	—
										Total trips:		750
KOOTENAI RIVER, ID AND MT No Vessel Trips Reported												
NEAH BAY, WA (13 feet and less)												
	Inbound						Outbound					
Grand Total	29	—	—	17	12	—	34	—	—	22	12	—
										Total trips:		63
PORT GAMBLE HARBOR, WA (12 feet and less)												
	Inbound						Outbound					
Grand Total	18	—	—	14	4	—	17	—	—	13	4	—
										Total trips:		35
QUILLAYUTE RIVER, WA No Vessel Trips Reported												
SKAGIT RIVER, WA (5 feet and less)												
	Upbound						Downbound					
Grand Total	14	14	—	—	—	—	14	14	—	—	—	—
										Total trips:		28
STILLAGUAMISH RIVER, WA No Vessel Trips Reported												
SWINOMISH CHANNEL, WA (13 feet and less)												
	Upbound						Downbound					
Grand Total	339	170	—	157	12	—	304	170	—	129	5	—
										Total trips:		643

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
WATERWAY CONNECTING PORT TOWNSEND BAY AND OAK BAY, WA (17 feet and less)												
	Upbound						Downbound					
Grand Total	99	---	---	62	37	---	53	---	---	50	3	---
											Total trips:	152
WILLAPA RIVER AND HARBOR, AND NASELLE RIVER, WA No Vessel Trips Reported												
COEUR D ALENE LAKE AND ST. JOE RIVER, ID (7 feet and less)												
	Upbound						Downbound					
Grand Total	786	---	---	786	---	---	786	---	---	786	---	---
											Total trips:	1,572
OTHER PUGET SOUND AREA PORTS, WA (55 feet and less)												
	Inbound						Outbound					
Grand Total	136,115	129,022	288	4,792	1,591	422	136,343	129,216	292	4,782	1,616	437
											Total trips:	272,458

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
KETCHIKAN HARBOR, AK												
Grand Total	Inbound				Outbound							
	3,551	1,917	2	842	642	148	3,583	1,912	3	868	640	160
FOREIGN												
Total	844	698	—	55	90	1	816	685	—	53	77	1
29	27	27	—	—	—	—	25	25	—	—	—	—
28	9	9	—	—	—	—	13	13	—	—	—	—
27	33	33	—	—	—	—	32	32	—	—	—	—
26	66	66	—	—	—	—	66	66	—	—	—	—
25	43	43	—	—	—	—	46	46	—	—	—	—
24	48	48	—	—	—	—	53	53	—	—	—	—
23	46	46	—	—	—	—	45	45	—	—	—	—
22	57	56	—	—	1	—	55	54	—	—	1	—
21	16	16	—	—	—	—	12	12	—	—	—	—
20	2	2	—	—	—	—	1	1	—	—	—	—
19	4	4	—	—	—	—	1	1	—	—	—	—
18	23	21	—	—	2	—	22	21	—	—	1	—
17	4	3	—	—	1	—	5	3	—	—	1	1
16	41	10	—	11	19	1	28	10	—	8	10	—
15	55	32	—	3	20	—	38	22	—	6	10	—
14	4	—	—	2	2	—	11	1	—	6	4	—
13	22	13	—	8	1	—	14	10	—	3	1	—
≤ 12	344	269	—	31	44	—	349	270	—	30	49	—
DOMESTIC												
Total	2,707	1,219	2	787	552	147	2,767	1,227	3	815	563	159
25	—	—	—	—	—	—	1	—	1	—	—	—
22	1	—	1	—	—	—	—	—	—	—	—	—
21	1	—	1	—	—	—	—	—	—	—	—	—
20	3	—	—	3	—	—	5	—	2	3	—	—
18	7	—	—	6	1	—	6	—	—	5	1	—
17	—	—	—	—	—	—	2	—	—	2	—	—
16	26	5	—	18	—	3	26	6	—	19	—	1
15	546	390	—	149	—	7	522	390	—	132	—	—
14	122	—	—	50	71	1	109	—	—	38	70	1
13	585	567	—	12	—	6	592	567	—	19	—	6
≤ 12	1,416	257	—	549	480	130	1,504	264	—	597	492	151
										Total trips:		7,134
WRANGELL NARROWS, AK												
Grand Total	Upbound				Downbound							
	1,748	787	—	470	390	101	1,702	798	—	408	415	81
FOREIGN												
Total	3	3	—	—	—	—	3	3	—	—	—	—
18	3	3	—	—	—	—	2	2	—	—	—	—
≤ 12	—	—	—	—	—	—	1	1	—	—	—	—
DOMESTIC												
Total	1,745	784	—	470	390	101	1,699	795	—	408	415	81
20	2	—	—	2	—	—	1	—	—	1	—	—
18	6	—	—	6	—	—	3	—	—	3	—	—
16	24	5	—	18	—	1	19	8	—	11	—	—
15	583	427	—	156	—	—	568	427	—	141	—	—
14	67	—	—	21	45	1	73	1	—	15	57	—
13	114	89	—	19	—	6	113	89	—	24	—	—
≤ 12	949	263	—	248	345	93	922	270	—	213	358	81
										Total trips:		3,450
JUNEAU HARBOR, AK												
Grand Total	Upbound				Downbound							
	3,890	3,080	—	389	368	53	3,848	3,072	—	360	367	49
FOREIGN												
Total	415	398	—	7	9	1	413	398	—	6	8	1
24	302	302	—	—	—	—	310	310	—	—	—	—
23	38	38	—	—	—	—	42	42	—	—	—	—
22	5	5	—	—	—	—	4	4	—	—	—	—

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

VALDEZ HARBOR, AK - continued

	Inbound						Outbound					
DOMESTIC												
25	54	—	54	—	—	—	—	—	—	—	—	—
24	61	—	61	—	—	—	—	—	—	—	—	—
23	19	—	19	—	—	—	—	—	—	—	—	—
22	—	—	—	—	—	—	1	—	1	—	—	—
20	12	—	12	—	—	—	—	—	—	—	—	—
18	4	—	4	—	—	—	—	—	—	—	—	—
17	1	—	—	1	—	—	1	—	—	1	—	—
16	1	—	—	—	—	1	5	—	—	—	—	5
15	9	—	—	9	—	—	17	—	—	16	—	1
14	77	63	8	5	—	1	73	63	—	7	—	3
13	6	—	—	6	—	—	12	—	—	8	—	4
≤ 12	989	657	247	47	6	32	744	657	—	53	5	29
										Total trips:		2,934

SEWARD HARBOR, AK

	Inbound						Outbound					
Grand Total	477	446	—	21	8	2	484	446	—	24	12	2

FOREIGN

Total	121	121	—	—	—	—	121	121	—	—	—	—
38	—	—	—	—	—	—	6	6	—	—	—	—
33	—	—	—	—	—	—	1	1	—	—	—	—
30	5	5	—	—	—	—	4	4	—	—	—	—
29	6	6	—	—	—	—	8	8	—	—	—	—
28	10	10	—	—	—	—	8	8	—	—	—	—
27	19	19	—	—	—	—	17	17	—	—	—	—
26	18	18	—	—	—	—	22	22	—	—	—	—
25	20	20	—	—	—	—	19	19	—	—	—	—
24	3	3	—	—	—	—	9	9	—	—	—	—
23	13	13	—	—	—	—	8	8	—	—	—	—
22	4	4	—	—	—	—	2	2	—	—	—	—
21	3	3	—	—	—	—	2	2	—	—	—	—
20	3	3	—	—	—	—	—	—	—	—	—	—
19	5	5	—	—	—	—	3	3	—	—	—	—
18	4	4	—	—	—	—	4	4	—	—	—	—
17	1	1	—	—	—	—	3	3	—	—	—	—
16	3	3	—	—	—	—	1	1	—	—	—	—
15	2	2	—	—	—	—	2	2	—	—	—	—
14	1	1	—	—	—	—	1	1	—	—	—	—
12	1	1	—	—	—	—	1	1	—	—	—	—

DOMESTIC

Total	356	325	—	21	8	2	363	325	—	24	12	2
17	—	—	—	—	—	—	1	—	—	1	—	—
14	71	69	—	2	—	—	72	69	—	2	1	—
13	2	1	—	1	—	—	2	1	—	1	—	—
12	19	—	—	16	3	—	27	—	—	18	9	—
11	2	—	—	—	—	2	2	—	—	—	—	2
10	2	—	—	2	—	—	2	—	—	2	—	—
9	131	131	—	—	—	—	131	131	—	—	—	—
8	124	124	—	—	—	—	125	124	—	—	1	—
4	—	—	—	—	—	—	1	—	—	—	1	—
3	4	—	—	—	4	—	—	—	—	—	—	—
2	1	—	—	—	1	—	—	—	—	—	—	—
										Total trips:		961

HOMER, AK

	Inbound						Outbound					
Grand Total	462	332	7	58	41	24	480	335	11	63	48	23

FOREIGN

Total	64	44	6	4	10	—	81	46	10	10	15	—
27	6	5	—	—	1	—	22	19	1	—	2	—
26	3	1	1	—	1	—	5	3	2	—	—	—
25	9	7	1	—	1	—	3	2	1	—	—	—
24	3	2	1	—	—	—	3	2	1	—	—	—
23	8	6	1	—	1	—	6	3	2	—	1	—
22	6	4	1	—	1	—	7	6	1	—	—	—

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker

ANCHORAGE, AK - continued

Inbound							Outbound					
DOMESTIC												
26	—	—	—	—	—	—	1	—	1	—	—	—
25	106	106	—	—	—	—	105	103	2	—	—	—
24	—	—	—	—	—	—	5	5	—	—	—	—
21	1	—	—	—	—	1	2	—	—	—	—	2
20	8	—	—	8	—	—	9	—	—	9	—	—
19	5	—	—	—	1	4	4	—	—	—	—	4
18	3	—	—	3	—	—	3	—	—	3	—	—
17	6	—	—	4	—	2	3	—	—	3	—	—
16	5	—	—	—	—	5	7	—	—	—	1	6
15	29	—	—	11	17	1	26	—	—	12	13	1
14	24	—	—	18	4	2	37	—	—	23	7	7
13	21	—	—	15	3	3	24	—	—	15	1	8
≤ 12	111	2	—	45	28	36	110	2	2	44	33	29
Total trips:											996	

KODIAK HARBOR, AK

Inbound							Outbound					
Grand Total	617	285	2	124	157	49	626	291	3	123	164	45

FOREIGN

Total	120	2	—	1	117	—	130	2	—	1	127	—
18	1	1	—	—	—	—	—	—	—	—	—	—
15	—	—	—	—	—	—	1	1	—	—	—	—
13	—	—	—	—	—	—	12	—	—	—	12	—
12	—	—	—	—	—	—	115	—	—	—	115	—
7	1	—	—	—	1	—	—	—	—	—	—	—
6	114	—	—	—	114	—	—	—	—	—	—	—
5	2	—	—	1	1	—	1	—	—	1	—	—
4	1	1	—	—	—	—	1	1	—	—	—	—
1	1	—	—	—	1	—	—	—	—	—	—	—

DOMESTIC

Total	497	283	2	123	40	49	496	289	3	122	37	45
27	1	—	1	—	—	—	—	—	—	—	—	—
26	1	—	1	—	—	—	—	—	—	—	—	—
25	2	2	—	—	—	—	1	1	—	—	—	—
24	91	91	—	—	—	—	92	92	—	—	—	—
20	—	—	—	—	—	—	1	—	—	1	—	—
17	2	1	—	1	—	—	2	1	—	1	—	—
16	3	3	—	—	—	—	1	1	—	—	—	—
15	22	5	—	17	—	—	35	6	—	29	—	—
14	137	126	—	7	1	3	134	125	—	7	1	1
13	40	7	—	25	—	8	33	7	—	24	—	2
12	27	6	—	5	9	7	16	6	—	2	4	4
11	10	2	—	4	—	4	7	2	—	4	—	1
10	37	—	—	32	—	5	26	—	—	23	—	3
9	35	19	—	8	5	3	58	43	—	7	5	3
8	30	—	—	24	4	2	34	—	3	24	4	3
7	5	—	—	—	3	2	5	—	—	—	1	4
6	13	—	—	—	10	3	12	—	—	—	10	2
5	8	—	—	—	3	5	9	—	—	—	2	7
4	6	—	—	—	5	1	10	1	—	—	6	3
3	6	—	—	—	—	6	15	—	—	—	4	11
2	21	21	—	—	—	—	5	4	—	—	—	1
Total trips:											1,243	

UNALASKA BAY AND ISLAND, AK

Inbound							Outbound					
Grand Total	1,185	857	1	201	29	97	1,157	825	1	206	27	98

FOREIGN

Total	444	438	1	4	—	1	456	451	1	4	—	—
34	61	61	—	—	—	—	71	71	—	—	—	—
33	14	14	—	—	—	—	9	9	—	—	—	—
32	9	9	—	—	—	—	10	10	—	—	—	—
31	5	5	—	—	—	—	5	5	—	—	—	—
30	2	2	—	—	—	—	2	2	—	—	—	—
29	3	3	—	—	—	—	4	4	—	—	—	—

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
UNALASKA BAY AND ISLAND, AK - continued												
Inbound						Outbound						
FOREIGN												
28	2	2	—	—	—	—	4	4	—	—	—	—
27	3	2	—	1	—	—	3	2	—	1	—	—
26	—	—	—	—	—	—	1	1	—	—	—	—
25	—	—	—	—	—	—	3	3	—	—	—	—
24	7	6	—	—	—	1	6	6	—	—	—	—
23	4	4	—	—	—	—	12	12	—	—	—	—
22	21	21	—	—	—	—	19	19	—	—	—	—
21	13	13	—	—	—	—	23	23	—	—	—	—
20	21	21	—	—	—	—	30	30	—	—	—	—
19	22	22	—	—	—	—	39	39	—	—	—	—
18	44	44	—	—	—	—	45	45	—	—	—	—
17	50	49	1	—	—	—	38	38	—	—	—	—
16	46	46	—	—	—	—	41	41	—	—	—	—
15	33	33	—	—	—	—	23	23	—	—	—	—
14	34	34	—	—	—	—	25	24	1	—	—	—
13	19	19	—	—	—	—	14	14	—	—	—	—
12	7	7	—	—	—	—	14	14	—	—	—	—
11	11	11	—	—	—	—	7	7	—	—	—	—
10	5	5	—	—	—	—	4	4	—	—	—	—
9	1	1	—	—	—	—	—	—	—	—	—	—
7	4	1	—	3	—	—	3	—	—	3	—	—
6	2	2	—	—	—	—	—	—	—	—	—	—
5	1	1	—	—	—	—	—	—	—	—	—	—
1	—	—	—	—	—	—	1	1	—	—	—	—
DOMESTIC												
Total	741	419	—	197	29	96	701	374	—	202	27	98
27	—	—	—	—	—	—	1	1	—	—	—	—
26	4	4	—	—	—	—	3	3	—	—	—	—
25	—	—	—	—	—	—	1	1	—	—	—	—
24	45	45	—	—	—	—	44	44	—	—	—	—
23	2	—	—	—	—	2	—	—	—	—	—	—
22	1	—	—	—	—	1	—	—	—	—	—	—
20	43	40	—	1	—	2	5	4	—	1	—	—
19	3	—	—	1	—	2	3	—	—	1	—	2
18	9	4	—	5	—	—	10	3	—	5	—	2
17	10	1	—	8	—	1	10	3	—	7	—	—
16	9	7	—	1	—	1	9	7	—	1	—	1
15	52	12	—	39	—	1	45	13	—	32	—	—
14	51	16	—	34	—	1	49	14	—	32	1	2
13	57	50	—	6	—	1	61	48	—	13	—	—
12	141	122	—	17	1	1	148	125	—	19	2	2
11	55	42	—	5	—	8	41	32	—	5	1	3
10	129	54	—	60	—	15	128	52	—	58	—	18
9	37	18	—	11	—	8	45	18	—	11	3	13
8	16	2	—	9	3	2	31	4	—	17	3	7
7	12	1	—	—	4	7	10	—	—	—	5	5
6	6	1	—	—	3	2	8	2	—	—	2	4
5	7	—	—	—	2	5	13	—	—	—	5	8
4	11	—	—	—	4	7	11	—	—	—	5	6
3	17	—	—	—	9	8	10	—	—	—	—	10
2	24	—	—	—	3	21	15	—	—	—	—	15
										Total trips:		2,342
BETHEL HARBOR, AK												
(19 feet and less)												
Inbound												
Grand Total	230	5	—	95	125	5	205	5	—	87	109	4
										Total trips:		435
CORDOVA HARBOR, AK												
(15 feet and less)												
Inbound												
Grand Total	325	243	—	61	3	18	298	236	—	43	3	16
										Total trips:		623
CRAIG HARBOR, AK												
(15 feet and less)												
Inbound												
Grand Total	120	24	—	46	26	24	111	26	—	37	25	23
										Total trips:		231

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
DILLINGHAM HARBOR, AK (20 feet and less)												
				Inbound						Outbound		
Grand Total	104	5	---	39	39	21	103	5	---	40	38	20
										Total trips:		207
DOUGLAS HARBOR, AK (12 feet and less)												
				Inbound						Outbound		
Grand Total	994	994	---	---	---	---	1,002	994	---	8	---	---
										Total trips:		1,996
DRY PASS, AK (12 feet and less)												
				Inbound						Outbound		
Grand Total	1	---	---	---	---	1	---	---	---	---	---	---
										Total trips:		1
EGEGIK RIVER, AK (13 feet and less)												
				Inbound						Outbound		
Grand Total	53	2	---	16	30	5	54	2	---	18	30	4
										Total trips:		107
ELFIN COVE HARBOR, AK (9 feet and less)												
				Inbound						Outbound		
Grand Total	10	---	---	5	---	5	10	---	---	5	---	5
										Total trips:		20
GASTINEAU CHANNEL, AK (12 feet and less)												
				Upbound						Downbound		
Grand Total	3	---	---	3	---	---	2	---	---	2	---	---
										Total trips:		5
HOONAH HARBOR, AK (19 feet and less)												
				Inbound						Outbound		
Grand Total	393	285	---	49	46	13	402	286	---	52	50	14
										Total trips:		795
HUMBOLDT HARBOR, AK (23 feet and less)												
				Inbound						Outbound		
Grand Total	209	160	---	31	3	15	209	158	---	35	3	13
										Total trips:		418
KAKE HARBOR, AK (24 feet and less)												
				Inbound						Outbound		
Grand Total	378	139	---	92	129	18	357	139	---	80	123	15
										Total trips:		735
KING COVE LAGOON, AK (18 feet and less)												
				Inbound						Outbound		
Grand Total	208	151	---	47	5	5	202	147	---	45	6	4
										Total trips:		410

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
METLAKATLA HARBOR, AK (23 feet and less)												
	Inbound						Outbound					
Grand Total	515	249	---	73	174	19	522	251	---	74	180	17
											Total trips:	1,037
NAKNEK RIVER, AK (16 feet and less)												
	Upbound						Downbound					
Grand Total	157	7	---	60	75	15	150	7	---	61	68	14
											Total trips:	307
NINILCHIK HARBOR, AK (4 feet and less)												
	Inbound						Outbound					
Grand Total	15	15	---	---	---	---	15	15	---	---	---	30
											Total trips:	---
NOME, AK (20 feet and less)												
	Inbound						Outbound					
Grand Total	87	14	---	32	33	8	70	12	---	23	27	8
											Total trips:	157
OLD HARBOR, AK (15 feet and less)												
	Inbound						Outbound					
Grand Total	14	11	---	2	---	1	16	11	---	2	1	2
											Total trips:	30
PELICAN HARBOR, AK (13 feet and less)												
	Inbound						Outbound					
Grand Total	69	19	---	25	17	8	65	19	---	23	15	8
											Total trips:	134
PETERSBURG HARBOR, AK (20 feet and less)												
	Inbound						Outbound					
Grand Total	1,102	550	---	269	240	43	1,140	549	---	302	246	43
											Total trips:	2,242
PORT ALEXANDER, AK No Vessel Trips Reported												
SELDOVIA HARBOR, AK (22 feet and less)												
	Inbound						Outbound					
Grand Total	109	98	---	4	6	1	108	99	---	5	3	1
											Total trips:	217
SERGIUS AND WHITESTONE NARROWS, AK (16 feet and less)												
	Upbound						Downbound					
Grand Total	510	151	---	150	186	23	510	152	---	155	180	23
											Total trips:	1,020
SITKA HARBOR, AK (25 feet and less)												
	Inbound						Outbound					
Grand Total	2,348	1,942	---	196	186	24	2,333	1,918	---	197	194	24
											Total trips:	4,681

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
STIKINE RIVER, AK No Vessel Trips Reported												
WRANGELL HARBOR, AK (24 feet and less)												
				Inbound							Outbound	
Grand Total	1,080	580	—	218	260	22	1,033	570	—	197	244	22
										Total trips:		2,113
BEHM CANAL, AK (17 feet and less)												
				Upbound							Downbound	
Grand Total	10	1	—	5	—	4	218	64	—	89	14	51
										Total trips:		228
CHATHAM STRAIT, AK (39 feet and less)												
				Upbound							Downbound	
Grand Total	2,025	1,266	—	332	339	88	2,167	1,270	—	382	408	107
										Total trips:		4,192
CLARENCE STRAIT, AK (30 feet and less)												
				Upbound							Downbound	
Grand Total	3,122	1,664	—	802	526	130	3,085	1,672	—	761	555	97
										Total trips:		6,207
FREDERICK SOUND, AK (39 feet and less)												
				Upbound							Downbound	
Grand Total	1,766	835	—	380	477	74	1,746	841	—	421	389	95
										Total trips:		3,512
HYDABURG, AK (19 feet and less)												
				Inbound							Outbound	
Grand Total	45	26	—	8	7	4	49	33	—	8	4	4
										Total trips:		94
ICY BAY, AK (33 feet and less)												
				Upbound							Downbound	
Grand Total	117	30	—	83	4	—	114	24	—	87	3	—
										Total trips:		231
ICY STRAIT, AK (43 feet and less)												
				Upbound							Downbound	
Grand Total	3,402	2,850	1	262	227	62	3,451	2,855	1	273	261	61
										Total trips:		6,853
KIVILINA, AK (20 feet and less)												
				Inbound							Outbound	
Grand Total	331	—	—	162	167	2	326	—	—	158	167	1
										Total trips:		657
KLAWOCK, AK (17 feet and less)												
				Inbound							Outbound	
Grand Total	116	17	—	78	18	3	155	19	—	98	35	3
										Total trips:		271

Trips and Drafts of Vessels, 1997
(draft in feet)

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
LYNN CANAL, AK (43 feet and less)												
				Upbound						Downbound		
Grand Total	2,572	2,055	1	242	230	44	2,624	2,064	1	256	251	52
										Total trips:		5,196
NIKISHKA, AK (39 feet and less)												
				Inbound						Outbound		
Grand Total	239	14	138	46	8	33	271	14	133	67	12	45
										Total trips:		510
PRINCE OF WALES IS. WEST SIDE, AK (33 feet and less)												
				Inbound						Outbound		
Grand Total	474	104	---	262	59	49	462	103	---	251	60	48
										Total trips:		936
REVILLAGIGADO CHANNEL, AK (36 feet and less)												
				Upbound						Downbound		
Grand Total	2,664	1,864	2	339	376	83	2,567	1,827	3	308	380	49
										Total trips:		5,231
STEPHENS PASSAGE, AK (39 feet and less)												
				Upbound						Downbound		
Grand Total	3,096	2,109	---	455	454	78	2,852	2,112	---	360	338	42
										Total trips:		5,948
SUMNER STRAIT, AK (20 feet and less)												
				Upbound						Downbound		
Grand Total	2,298	1,337	---	396	475	90	2,266	1,317	---	362	502	85
										Total trips:		4,564
TONGASS NARROWS, AK (25 feet and less)												
				Upbound						Downbound		
Grand Total	1,487	398	---	594	392	103	1,363	364	---	540	399	60
										Total trips:		2,850
WHITTIER HARBOR, AK (26 feet and less)												
				Inbound						Outbound		
Grand Total	718	545	---	83	89	1	720	552	---	81	86	1
										Total trips:		1,438

INDEX

	Pages
A	
ALSEA BAY AND RIVER, OR.	99
ANACORTES HARBOR, WA	118
ANCHORAGE, AK	133
ASTORIA, OR, PORT OF	76
B	
BARBERS POINT HARBOR, OAHU, HI	51
BEHM CANAL, AK	145
BELLINGHAM BAY AND HARBOR, WA	119
BERKELEY, CA	46
BETHEL HARBOR, AK	138
BLAINE HARBOR, WA.	121
BODEGA BAY, CA	46
C	
CARQUINEZ STRAIT, CA.	39
CHATHAM STRAIT, AK	145
CHETCO RIVER, OR	99
CHINOOK CHANNEL, WA	99
CLARENCE STRAIT, AK	146
CLATSKANIE RIVER, OR.	99
COEUR D ALENE LAKE AND ST. JOE RIVER, ID	121
COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WA, AND PORTLAND, OR	70
COLUMBIA RIVER ABOVE THE DALLAS DAM, WA, AND OR TO MCNARY LOCK AND DAM, OR AND WA.	89
COLUMBIA RIVER AND TRIBUTARIES ABOVE MCNARY LOCK DAM TO KENNEWICK, WA	57
COLUMBIA RIVER AT BAKERS BAY, WA	99
COLUMBIA RIVER BASIN, OR, WA, ID, TOTAL WATERBORNE COMMERCE	60
COLUMBIA RIVER BETWEEN VANCOUVER, WA, AND THE DALLAS, OR	87
COLUMBIA RIVER ENTRANCE, OR, AND WA	60
COLUMBIA RIVER MOUTH TO THE INTERNATIONAL BOUNDARY (CONSOLIDATED REPORT)	64
COLUMBIA RIVER SYSTEM	95
COLUMBIA RIVER, BETWEEN WENATCHEE TO KETTLE FALLS, WA.	121
COLUMBIA SLOUGH, OR	99
COOS AND MILLICOMA RIVERS, OR	99
COOS BAY, OR	94
COQUILLE RIVER, OR	99
CORDOVA HARBOR, AK	138
COWLITZ RIVER, WA.	99
CRAIG HARBOR, AK	138
CRESCENT CITY HARBOR, CA	46
D	
DEEP RIVER, WA.	99
DEPOE BAY, OR	99
DILLINGHAM HARBOR, AK	139
DOUGLAS HARBOR, AK	139
DRY PASS, AK.	139
E	
EGEGIK RIVER, AK	139
ELFIN COVE HARBOR, AK	139
ELLWOOD, CA	14
ELOKOMIN SLOUGH, WA	99
EVERETT HARBOR AND SNOHOMISH RIVER, WA.	116
F	
FLATHEAD LAKE, MT.	121
FREDERICK SOUND, AK	147
G	
GASTINEAU CHANNEL, AK.	140
GRAYS HARBOR AND CHEHALIS RIVER, WA	101
GRAYS RIVER, WA	99
H	
HAMMERSLEY INLET, WA	104
HANA HARBOR, MAUI, HI	56

	Pages
H	
HILO HARBOR, HI	47
HOMER, AK	132
HONOLULU HARBOR, OAHU, HI	52
HOONAH HARBOR, AK	140
HOQUIAM RIVER, WA.	121
HUMBOLDT HARBOR AND BAY, CA	45
HUMBOLDT HARBOR, AK	140
HYDABURG, AK	148
I	
ICY BAY, AK	148
ICY STRAIT, AK	148
J	
JUNEAU HARBOR, AK	127
K	
KAHULUI HARBOR, MAUI, HI	49
KAILUA HARBOR, OAHU, HI	56
KAKE HARBOR, AK	140
KALAMA, WA, PORT OF	79
KALAUPAPA HARBOR, MOLOKAI, HI.	56
KAUNAKAKAI HARBOR, MOLOKAI, HI	56
KAWAIHAE HARBOR, HI	48
KETCHIKAN HARBOR, AK	123
KING COVE LAGOON, AK	140
KIVILINA, AK.	149
KLAWOCK, AK.	149
KODIAK HARBOR, AK.	135
KOOTENAI RIVER, ID AND MT	121
L	
LAKE RIVER, WA	99
LAKE WASHINGTON SHIP CANAL, WA	114
LEWIS RIVER, WA	99
LONG BEACH HARBOR, CA.	5
LONGVIEW, WA, PORT OF	78
LOS ANGELES, CA DISTRICT.	8
LYNN CANAL, AK	149
M	
METLAKATLA HARBOR, AK	141
MIDDLE RIVER, CA.	23
MISSION BAY, CA	14
MOKELUMNE RIVER, CA	23
MONTEREY HARBOR, CA	46
MORRO BAY HARBOR, CA	14
MOSS LANDING HARBOR, CA.	46
MULTNOMAH CHANNEL, OR	81
N	
NAKNEK RIVER, AK.	141
NAPA RIVER, CA	46
NAWILIWILI HARBOR, KAUAI, HI	54
NEAH BAY, WA	121
NEWPORT BAY HARBOR, CA.	14
NIKISHKA, AK	150
NINILCHIK HARBOR, AK	142
NOME, AK	142
NOYO RIVER, CA.	46
O	
OAKLAND HARBOR, CA	29
OLD HARBOR, AK.	143
OLD RIVER, CA.	23
OLYMPIA HARBOR, WA	104
OREGON SLOUGH (NORTH PORTLAND HARBOR), OR.	81
P	
PEARL HARBOR, OAHU, HI	56

	Pages
P	
PELICAN HARBOR, AK	143
PETALUMA RIVER, CA	46
PETERSBURG HARBOR, AK	143
PILLAR POINT HARBOR, CA	46
PORT ALEXANDER, AK	143
PORT ALLEN HARBOR, KAUAI, HI	56
PORT ANGELES HARBOR, WA	101
PORT GAMBLE HARBOR, WA	121
PORT HUENEME, CA	12
PORT OF ASTORIA, OR	76
PORT OF KALAMA, WA	79
PORT OF LONGVIEW, WA	78
PORT OF PORTLAND, OR	91
PORT OF ST. HELENS, OR	99
PORT OF VANCOUVER, WA	85
PORT ORFORD, OR	99
PORT TOWNSEND HARBOR, WA	103
PORTLAND, OR DISTRICT	91
PORTLAND, OR, PORT OF	91
PORTS OTHER THAN PORTLAND, ASTORIA, ST. HELENS, LONGVIEW, VANCOUVER AND KALALMA	77
PRINCE OF WALES IS. WEST SIDE, AK	150
PUGET SOUND AREA PORTS, WA, OTHER.	121
Q	
QUILLAYUTE RIVER, WA	121
R	
REDONDO BEACH, CA	14
REDWOOD CITY HARBOR, CA	29
REVILLAGIGADO CHANNEL, AK	150
RICHMOND HARBOR, CA	33
ROGUE RIVER, OR	99
S	
SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, CA	16
SACRAMENTO RIVER, CA	15
SACRAMENTO, CA DISTRICT	18
SAN DIEGO HARBOR, CA	3
SAN FRANCISCO BAY AND DELTA AREAS, CA, TOTAL WATERBORNE COMMERCE OF THE	24
SAN FRANCISCO BAY AREA PORTS, CA, OTHER.	46
SAN FRANCISCO BAY ENTRANCE, CA	24
SAN FRANCISCO, CA DISTRICT	27
SAN JOAQUIN RIVER, CA	19
SAN PABLO BAY AND MARE ISLAND STRAIT, CA	36
SAN RAFAEL CREEK, CA	46
SANTA BARBARA HARBOR, CA	14
SANTA CRUZ HARBOR, CA	46
SEATTLE, WA DISTRICT	110
SELDOVIA HARBOR, AK	143
SERGIUS AND WHITESTONE NARROWS, AK	143
SEWARD HARBOR, AK	131
SITKA HARBOR, AK	144
SIUSLAW RIVER, OR	100
SKAGIT RIVER, WA	121
SKAGWAY HARBOR, AK	129
SKAMOKAWA (STEAMBOAT) SLOUGH, WA	100
SKAMOKAWA CREEK, WA	100
SKIPANON CHANNEL, OR	100
SMITH RIVER, OR	100
SNAKE RIVER, OR, WA AND ID	58
ST. HELENS, OR, PORT OF	99
STEPHENS PASSAGE, AK	151
STIKINE RIVER, AK	145
STILLAGUAMISH RIVER, WA	121
STOCKTON, CA	22
SUISUN BAY CHANNEL, CA	42

	Pages
S	
SUISUN CHANNEL, CA.	46
SUMNER STRAIT, AK	152
SWINOMISH CHANNEL, WA	121
T	
TACOMA HARBOR, WA.	107
TILLAMOOK BAY AND BAR, OR	100
TONGASS NARROWS, AK	153
TOTAL WATERBORNE COMMERCE OF THE SAN FRANCISCO BAY AND DELTA AREAS, CA	24
TOTAL WATERBORNE COMMERCE, COLUMBIA RIVER BASIN, OR, WA, AND ID.	60
U	
UMPQUA RIVER, OR	100
UNALASKA BAY AND ISLAND, AK	136
V	
VALDEZ HARBOR, AK	130
VANCOUVER, WA, PORT OF	85
W	
WAKE ISLAND HARBOR, WAKE ISLAND	56
WATERWAY CONNECTING PORT TOWNSEND BAY AND OAK BAY, WA.	121
WELLS HARBOR, MIDWAY ISLAND.	56
WESTPORT SLOUGH, OR	100
WHITTIER HARBOR, AK	154
WILLAMETTE RIVER ABOVE PORTLAND AND YAMHILL RIVER, OR.	94
WILLAPA RIVER AND HARBOR, AND NASELLE RIVER, WA	121
WRANGELL HARBOR, AK	145
WRANGELL NARROWS, AK	125
Y	
YAQUINA BAY AND HARBOR, OR	100
YAQUINA RIVER, OR	100
YOUNGS BAY AND YOUNGS RIVER, OR	100

INDEX

	Pages
A	
ALSEA BAY AND RIVER, OR	188
ANACORTES HARBOR, WA	195
ANCHORAGE, AK	203
ASTORIA, OR, PORT OF	180
B	
BARBERS POINT HARBOR, OAHU, HI.	174
BEHM CANAL, AK	208
BELLINGHAM BAY AND HARBOR, WA	196
BERKELEY, CA	171
BETHEL HARBOR, AK	205
BLAINE HARBOR, WA.	197
BODEGA BAY, CA.	171
C	
CARQUINEZ STRAIT, CA	169
CHATHAM STRAIT, AK	208
CHETCO RIVER, OR	188
CHINOOK CHANNEL, WA.	188
CLARENCE STRAIT, AK	208
CLATSKANIE RIVER, OR	188
COEUR D ALENE LAKE AND ST. JOE RIVER, ID	198
COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WA, AND PORTLAND, OR	180
COLUMBIA RIVER ABOVE THE DALLAS DAM, WA, AND OR TO MCNARY LOCK AND DAM, OR AND WA	184
COLUMBIA RIVER AND TRIBUTARIES ABOVE MCNARY LOCK DAM TO KENNEWICK, WA.	177
COLUMBIA RIVER AT BAKERS BAY, WA	188
COLUMBIA RIVER BETWEEN VANCOUVER, WA, AND THE DALLAS, OR	184
COLUMBIA RIVER ENTRANCE, OR, AND WA	178
COLUMBIA RIVER MOUTH TO THE INTERNATIONAL BOUNDARY (CONSOLIDATED REPORT)	178
COLUMBIA RIVER SYSTEM	186
COLUMBIA RIVER, BETWEEN WENATCHEE TO KETTLE FALLS, WA.	197
COLUMBIA SLOUGH, OR.	188
COOS AND MILLICOMA RIVERS, OR	188
COOS BAY, OR	186
COQUILLE RIVER, OR	188
CORDOVA HARBOR, AK	205
COWLITZ RIVER, WA	188
CRAIG HARBOR, AK	205
CRESCENT CITY HARBOR, CA	171
D	
DEEP RIVER, WA	188
DEPOE BAY, OR	188
DILLINGHAM HARBOR, AK.	206
DOUGLAS HARBOR, AK	206
DRY PASS, AK.	206
E	
EGEGIK RIVER, AK	206
ELFIN COVE HARBOR, AK	206
ELLWOOD, CA.	160
ELOKOMIN SLOUGH, WA.	189
EVERETT HARBOR AND SNOHOMISH RIVER, WA.	195
F	
FLATHEAD LAKE, MT	197
FREDERICK SOUND, AK	208
G	
GASTINEAU CHANNEL, AK.	206
GRAYS HARBOR AND CHEHALIS RIVER, WA	191
GRAYS RIVER, WA	189
H	
HAMMERSLEY INLET, WA	192

	Pages
H	
HANA HARBOR, MAUI, HI	176
HILO HARBOR, HI	173
HOMER, AK	202
HONOLULU HARBOR, OAHU, HI	175
HOONAH HARBOR, AK	206
HOQUIAM RIVER, WA	197
HUMBOLDT HARBOR AND BAY, CA	170
HUMBOLDT HARBOR, AK	206
HYDABURG, AK	208
I	
ICY BAY, AK	208
ICY STRAIT, AK	208
J	
JUNEAU HARBOR, AK	199
K	
KAHULUI HARBOR, MAUI, HI	173
KAILUA HARBOR, OAHU, HI	176
KAKE HARBOR, AK	206
KALAMA, WA, PORT OF	182
KALAUPAPA HARBOR, MOLOKAI, HI	176
KAUNAKAKAI HARBOR, MOLOKAI, HI	176
KAWAIHAE HARBOR, HI	173
KETCHIKAN HARBOR, AK	199
KING COVE LAGOON, AK	206
KIVILINA, AK	208
KLAWOCK, AK	208
KODIAK HARBOR, AK	204
KOOTENAI RIVER, ID AND MT	197
L	
LAKE RIVER, WA	189
LAKE WASHINGTON SHIP CANAL, WA	194
LEWIS RIVER, WA	189
LONG BEACH HARBOR, CA	157
LONGVIEW, WA, PORT OF	181
LOS ANGELES, CA DISTRICT	158
LYNN CANAL, AK	209
M	
METLAKATLA HARBOR, AK	207
MIDDLE RIVER, CA	164
MISSION BAY, CA	160
MOKELUMNE RIVER, CA	164
MONTEREY HARBOR, CA	171
MORRO BAY HARBOR, CA	160
MOSS LANDING HARBOR, CA	171
MULTNOMAH CHANNEL, OR	182
N	
NAKNEK RIVER, AK	207
NAPA RIVER, CA	171
NAWILIWILI HARBOR, KAUAI, HI	175
NEAH BAY, WA	197
NEWPORT BAY HARBOR, CA	160
NIKISHKA, AK	209
NINILCHIK HARBOR, AK	207
NOME, AK	207
NOYO RIVER, CA	171
O	
OAKLAND HARBOR, CA	166
OLD HARBOR, AK	207
OLD RIVER, CA	164
OLYMPIA HARBOR, WA	192
OREGON SLOUGH (NORTH PORTLAND HARBOR), OR	183

	Pages
P	
PEARL HARBOR, OAHU, HI	176
PELICAN HARBOR, AK	207
PETALUMA RIVER, CA	171
PETERSBURG HARBOR, AK	207
PILLAR POINT HARBOR, CA	171
PORT ALEXANDER, AK	207
PORT ALLEN HARBOR, KAUAI, HI	176
PORT ANGELES HARBOR, WA	191
PORT GAMBLE HARBOR, WA	197
PORT HUENEME, CA	159
PORT OF ASTORIA, OR	180
PORT OF KALAMA, WA	182
PORT OF LONGVIEW, WA	181
PORT OF PORTLAND, OR	185
PORT OF ST. HELENS, OR	189
PORT OF VANCOUVER, WA	183
PORT ORFORD, OR	189
PORT TOWNSEND HARBOR, WA	192
PORTLAND, OR DISTRICT	185
PORTLAND, OR, PORT OF	185
PORTS OTHER THAN PORTLAND, ASTORIA, ST. HELENS, LONGVIEW, VANCOUVER AND KALALMA	181
PRINCE OF WALES IS. WEST SIDE, AK	209
PUGET SOUND AREA PORTS, WA, OTHER	198
Q	
QUILLAYUTE RIVER, WA	197
R	
REDONDO BEACH, CA	160
REDWOOD CITY HARBOR, CA	166
REVILLAGIGADO CHANNEL, AK	209
RICHMOND HARBOR, CA	167
ROGUE RIVER, OR	189
S	
SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, CA	161
SACRAMENTO RIVER, CA	161
SACRAMENTO, CA DISTRICT	162
SAN DIEGO HARBOR, CA	157
SAN FRANCISCO BAY AREA PORTS, CA, OTHER	172
SAN FRANCISCO BAY ENTRANCE, CA	165
SAN FRANCISCO, CA DISTRICT	166
SAN JOAQUIN RIVER, CA	162
SAN PABLO BAY AND MARE ISLAND STRAIT, CA	168
SAN RAFAEL CREEK, CA	171
SANTA BARBARA HARBOR, CA	160
SANTA CRUZ HARBOR, CA	171
SEATTLE, WA DISTRICT	194
SELDOVIA HARBOR, AK	207
SERGIUS AND WHITESTONE NARROWS, AK	207
SEWARD HARBOR, AK	202
SITKA HARBOR, AK	207
SIUSLAW RIVER, OR	189
SKAGIT RIVER, WA	197
SKAGWAY HARBOR, AK	200
SKAMOKAWA (STEAMBOAT) SLOUGH, WA	189
SKAMOKAWA CREEK, WA	189
SKIPANON CHANNEL, OR	189
SMITH RIVER, OR	189
SNAKE RIVER, OR, WA AND ID	177
ST. HELENS, OR, PORT OF	189
STEPHENS PASSAGE, AK	209
STIKINE RIVER, AK	208
STILLAGUAMISH RIVER, WA	197
STOCKTON, CA	163

	Pages
S	
SUISUN BAY CHANNEL, CA	169
SUISUN CHANNEL, CA	171
SUMNER STRAIT, AK	209
SWINOMISH CHANNEL, WA	197
T	
TACOMA HARBOR, WA	193
TILLAMOOK BAY AND BAR, OR	189
TONGASS NARROWS, AK	209
U	
UMPQUA RIVER, OR	189
UNALASKA BAY AND ISLAND, AK	204
V	
VALDEZ HARBOR, AK	201
VANCOUVER, WA, PORT OF	183
W	
WAKE ISLAND HARBOR, WAKE ISLAND	176
WATERWAY CONNECTING PORT TOWNSEND BAY AND OAK BAY, WA	198
WELLS HARBOR, MIDWAY ISLAND	176
WESTPORT SLOUGH, OR	190
WHITTIER HARBOR, AK	209
WILLAMETTE RIVER ABOVE PORTLAND AND YAMHILL RIVER, OR	185
WILLAPA RIVER AND HARBOR, AND NASELLE RIVER, WA	198
WRANGELL HARBOR, AK	208
WRANGELL NARROWS, AK	199
Y	
YAQUINA BAY AND HARBOR, OR	190
YAQUINA RIVER, OR	190
YOUNGS BAY AND YOUNGS RIVER, OR	190