
WATERBORNE COMMERCE OF THE UNITED STATES

Calendar Year 1999

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



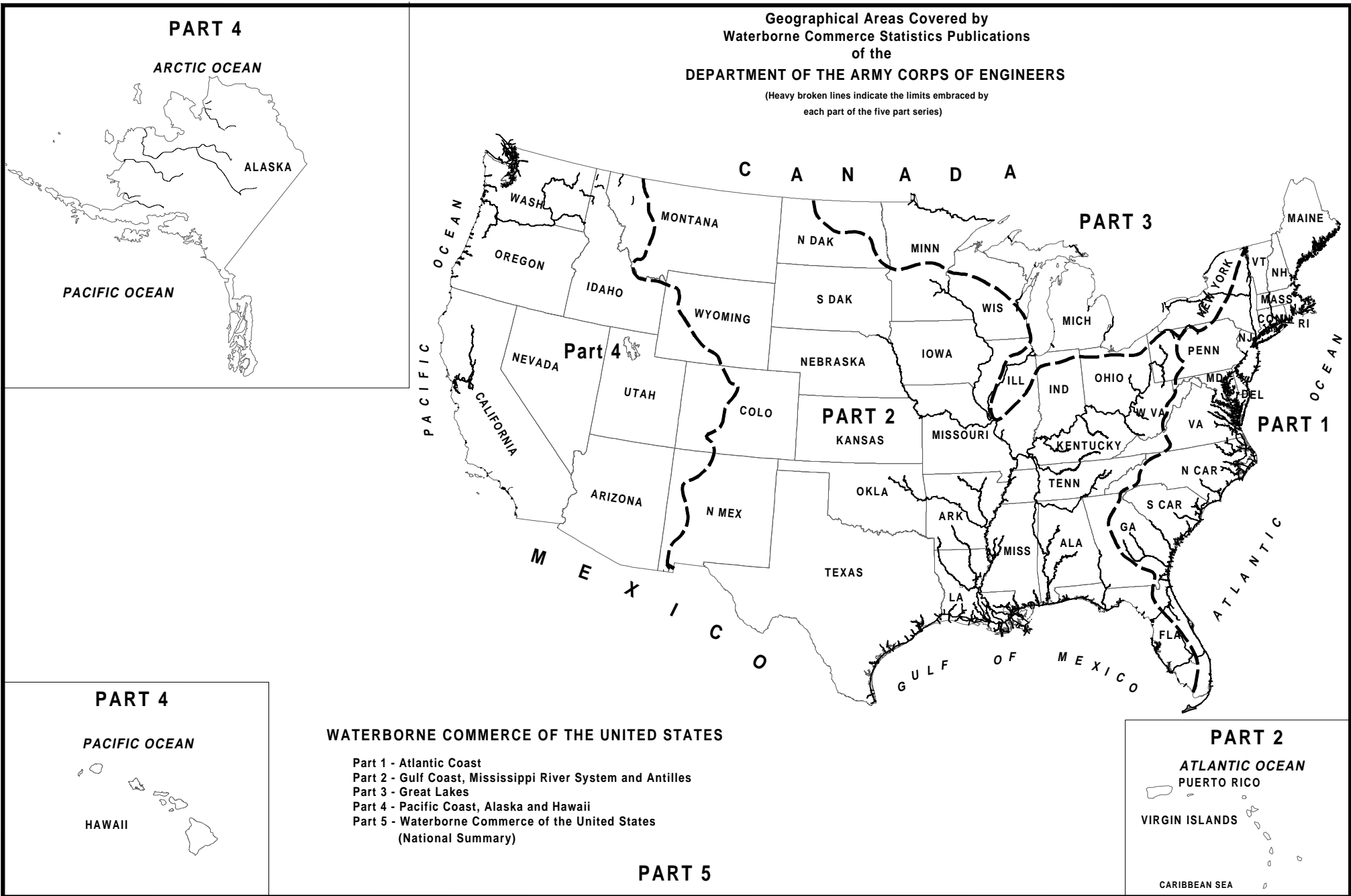
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**Geographical Areas Covered by
Waterborne Commerce Statistics Publications
of the
DEPARTMENT OF THE ARMY CORPS OF ENGINEERS**

(Heavy broken lines indicate the limits embraced by
each part of the five part series)



PART 4

ARCTIC OCEAN

ALASKA

PACIFIC OCEAN

PART 3

PART 1

PART 2

PART 2

ATLANTIC OCEAN
PUERTO RICO

VIRGIN ISLANDS

CARIBBEAN SEA

PART 4

PACIFIC OCEAN

HAWAII

WATERBORNE COMMERCE OF THE UNITED STATES

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

PART 5

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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 1999 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.

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

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

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

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

Traffic Direction

Waterways

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

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

Major Grouping

Minor Grouping

Pub Group Pub Name

00 Units

0200 Vehicles
0300 Passengers

10 Coal

1100 Coal
1200 Coal Coke

20 Petroleum & Petroleum Products

21 Crude Petroleum

2100 Crude Petroleum

22-29 Petroleum Products

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

30 Chemicals and Related Products

31 Fertilizers

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

32 Other Chemicals and Related Products

3211 Acyclic Hydrocarbons
3212 Benzene & Toluene
3219 Other Hydrocarbons
3220 Alcohols
3230 Carboxylic Acids
3240 Nitrogen Func. Comp.
3250 Organo-Inorganic Comp.
3260 Organic Comp. NEC
3271 Sulphur (Liquid)
3272 Sulphuric Acid
3273 Ammonia
3274 Sodium Hydroxide
3275 Inorg. Elem., Oxides, & Halogen Salts
3276 Metallic Salts
3279 Inorganic Chem. NEC
3281 Radioactive Material

Major Grouping

Minor Grouping

Pub Group Pub Name

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

40 Crude Materials, Inedible Except Fuels

41 Forest Products, Wood and Chips

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

42 Pulp and Waste Paper

4225 Pulp & Waste Paper

43 Soil, Sand, Gravel, Rock and Stone

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

44 Iron Ore and Scrap

4410 Iron Ore
4420 Iron & Steel Scrap

45 Marine Shells

4515 Marine Shells

46 Non-Ferrous Ores and Scrap

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

47 Sulphur, Clay and Salt

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

48 Slag

4860 Slag

49 Other Non-Metal. Min.

4900 Non-Metal. Min. NEC

Commodity Classification List (continued)

Major Grouping

Minor Grouping

Pub Group Pub Name

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

Major Grouping

Minor Grouping

Pub Group Pub Name

- 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
1990	1,280	1993	1,294	1996	1,842	1999	2,659
1991	904	1994	1,167	1997	1,724		
1992	638	1995	1,351	1998	1,873		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Coastwise Receipts	Internal Receipts
Total, all commodities	2,659	1,627	448	67	8	509	464	45
Total coal	0	---	0	---	---	---	---	---
1200 coal coke	0	---	0	---	---	---	---	---
Total petroleum and petroleum products	308	---	1	---	---	307	307	---
Subtotal petroleum products	308	---	1	---	---	307	307	---
2211 gasoline	82	---	---	---	---	82	82	---
2330 distillate fuel oil	8	---	---	---	---	8	8	---
2340 residual fuel oil	218	---	---	---	---	218	218	---
2350 lube oil & greases	1	---	1	---	---	---	---	---
2429 naphtha & solvents	0	---	0	---	---	---	---	---
Total chemicals and related products	524	85	431	---	8	---	---	---
Subtotal fertilizers	82	82	0	---	---	---	---	---
3110 nitrogenous fert.	50	50	---	---	---	---	---	---
3190 fert. & mixes nec	32	32	0	---	---	---	---	---
Subtotal other chemicals and related products	442	3	431	---	8	---	---	---
3211 acyclic hydrocarbons	3	---	3	---	---	---	---	---
3220 alcohols	0	---	0	---	---	---	---	---
3240 nitrogen func. comp.	0	---	0	---	---	---	---	---
3250 organo - inorg. comp.	0	---	0	---	---	---	---	---
3260 organic comp. nec	0	---	0	---	---	---	---	---
3275 inorg. elem., oxides, & halogen salts	0	---	0	---	---	---	---	---
3276 metallic salts	434	---	426	---	8	---	---	---
3282 pigments & paints	0	---	0	---	---	---	---	---
3283 coloring mat. nec	0	---	0	---	---	---	---	---
3284 medicines	0	---	0	---	---	---	---	---
3285 perfumes & cleansers	0	0	0	---	---	---	---	---
3286 plastics	5	3	1	---	---	---	---	---
3291 pesticides	0	---	0	---	---	---	---	---
3292 starches, gluten, glue	0	---	0	---	---	---	---	---
3297 chemical additives	0	---	0	---	---	---	---	---
3299 chem. products nec	0	---	0	---	---	---	---	---
Total crude materials, inedible except fuels	690	476	6	7	---	201	156	45
Subtotal forest products, wood and chips	245	38	---	7	---	201	156	45
4189 lumber	163	---	---	7	---	156	156	---
4190 forest products nec	83	38	---	---	---	45	---	45
Subtotal pulp and waste paper	6	---	6	---	---	---	---	---
4225 pulp & waste paper	6	---	6	---	---	---	---	---
Subtotal soil, sand, gravel, rock and stone	427	427	0	---	---	---	---	---
4331 sand & gravel	427	427	0	---	---	---	---	---
Subtotal iron ore and scrap	12	12	---	---	---	---	---	---
4410 iron ore	12	12	---	---	---	---	---	---
Subtotal sulphur, clay and salt	0	---	0	---	---	---	---	---
4782 clay & refrac. mat.	0	---	0	---	---	---	---	---
Total primary manufactured goods	746	684	1	61	---	---	---	---
Subtotal paper products	118	57	1	61	---	---	---	---
5110 newsprint	104	43	---	61	---	---	---	---
5120 paper & paperboard	3	3	0	---	---	---	---	---
5190 paper products nec	11	11	0	---	---	---	---	---
Subtotal lime, cement and glass	610	609	0	---	---	---	---	---
5220 cement & concrete	609	609	---	---	---	---	---	---
5240 glass & glass prod.	0	---	0	---	---	---	---	---
5290 misc. mineral prod.	0	0	0	---	---	---	---	---
Subtotal primary iron and steel products	4	4	0	---	---	---	---	---
5360 i&s bars & shapes	3	3	---	---	---	---	---	---
5370 i&s pipe & tube	1	1	0	---	---	---	---	---

SAN DIEGO HARBOR, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Coastwise	Internal
							Receipts	Receipts
Subtotal primary non-ferrous metal products	15	14	0	---	---	---	---	---
5421 copper	0	---	0	---	---	---	---	---
5480 fab. metal products	15	14	0	---	---	---	---	---
Total food and farm products	71	70	1	---	---	---	---	---
Subtotal oilseeds	25	25	---	---	---	---	---	---
6590 oilseeds nec	25	25	---	---	---	---	---	---
Subtotal vegetable products	0	---	0	---	---	---	---	---
6654 vegetables & prod.	0	---	0	---	---	---	---	---
Subtotal processed grain and animal feed	0	---	0	---	---	---	---	---
6747 grain mill products	0	---	0	---	---	---	---	---
6782 animal feed, prep.	0	---	0	---	---	---	---	---
Subtotal other agricultural products	46	45	0	---	---	---	---	---
6811 meat, fresh, frozen	0	---	0	---	---	---	---	---
6822 dairy products	0	---	0	---	---	---	---	---
6857 fruit & nuts nec	45	45	0	---	---	---	---	---
6871 coffee	0	0	---	---	---	---	---	---
6872 cocoa beans	0	0	---	---	---	---	---	---
6885 alcoholic beverages	0	0	0	---	---	---	---	---
6889 food products nec	0	---	0	---	---	---	---	---
6899 farm products nec	0	---	0	---	---	---	---	---
Total all manufactured equipment, machinery and products	320	311	9	0	---	1	1	---
7110 machinery (not elec)	2	0	1	---	---	1	1	---
7120 electrical machinery	0	0	0	---	---	---	---	---
7210 vehicles & parts	314	310	5	---	---	---	---	---
7220 aircraft & parts	0	0	0	---	---	---	---	---
7230 ships & boats	0	0	0	0	---	---	---	---
7300 ordnance & access.	0	---	0	---	---	---	---	---
7400 manufac. wood prod.	0	---	0	---	---	---	---	---
7500 textile products	2	1	1	---	---	---	---	---
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	---	---	---	---	---

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
1990	52,425	1993	54,321	1996	58,395	1999	60,883
1991	52,891	1994	56,522	1997	57,255		
1992	52,049	1995	53,227	1998	57,745		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
Total, all commodities	42,208	28,007	13,663	440	97
Total coal	404	2	401	0	---
1100 coal lignite	404	2	401	0	---
Total petroleum and petroleum products	13,454	8,371	4,896	98	90
Subtotal crude petroleum	5,750	5,750	0	---	---
2100 crude petroleum	5,750	5,750	0	---	---
Subtotal petroleum products	7,704	2,621	4,896	98	90
2211 gasoline	360	359	1	---	---
2221 kerosene	939	895	2	43	---
2330 distillate fuel oil	561	427	83	51	---
2340 residual fuel oil	886	691	190	4	1
2350 lube oil & greases	79	4	75	---	---
2410 petro. jelly & waxes	8	2	6	---	---
2429 naphtha & solvents	778	229	548	---	---
2430 asphalt, tar & pitch	189	1	189	---	---
2540 petroleum coke	3,890	0	3,801	---	89
2640 liquid natural gas	14	12	2	---	---
Total chemicals and related products	3,906	1,795	2,000	112	0
Subtotal fertilizers	96	2	93	0	---
3110 nitrogenous fert.	50	1	49	0	---
3120 phosphatic fert.	1	---	1	---	---
3130 potassic fert.	19	0	18	---	---
3190 fert. & mixes nec	27	2	25	0	---

LONG BEACH HARBOR, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
Subtotal other chemicals and related products	3,811	1,792	1,907	112	0
3211 acyclic hydrocarbons	15	1	14	—	—
3212 benzene & toluene	0	0	0	—	—
3219 other hydrocarbons	39	14	26	—	—
3220 alcohols	178	36	88	55	0
3230 carboxylic acids	95	46	49	0	0
3240 nitrogen func. comp.	152	28	124	—	0
3250 organo - inorg. comp.	67	24	43	—	—
3260 organic comp. nec	1,068	993	42	34	—
3271 sulphur (liquid)	0	0	0	—	—
3272 sulphuric acid	1	0	1	—	—
3273 ammonia	5	0	5	—	—
3274 sodium hydroxide	35	10	2	23	—
3275 inorg. elem., oxides, & halogen salts	151	64	87	—	0
3276 metallic salts	161	40	121	0	—
3279 inorganic chem. nec	7	5	1	—	—
3281 radioactive material	10	9	1	—	—
3282 pigments & paints	104	21	83	—	0
3283 coloring mat. nec	24	17	7	—	—
3284 medicines	36	15	21	0	—
3285 perfumes & cleansers	100	22	78	0	0
3286 plastics	1,193	338	855	0	0
3291 pesticides	29	9	20	—	—
3292 starches, gluten, glue	58	20	38	0	0
3293 explosives	38	38	0	—	—
3297 chemical additives	85	3	82	—	—
3298 wood & resin chem.	9	3	6	—	—
3299 chem. products nec	151	36	114	—	0
Total crude materials, inedible except fuels	3,295	978	2,303	13	0
Subtotal forest products, wood and chips	196	130	53	13	0
4110 rubber & gums	51	50	1	—	—
4150 fuel wood	2	0	2	—	—
4161 wood chips	4	1	4	—	0
4170 wood in the rough	15	4	11	—	—
4189 lumber	95	52	30	13	—
4190 forest products nec	28	23	6	0	—
Subtotal pulp and waste paper	1,176	51	1,125	—	—
4225 pulp & waste paper	1,176	51	1,125	—	—
Subtotal soil, sand, gravel, rock and stone	707	624	82	—	0
4310 building stone	5	2	2	—	—
4322 limestone	1	0	1	—	—
4323 gypsum	605	591	14	—	0
4327 phosphate rock	25	6	19	—	—
4331 sand & gravel	71	25	46	—	—
Subtotal iron ore and scrap	509	5	504	—	—
4410 iron ore	10	—	10	—	—
4420 iron & steel scrap	499	5	494	—	—
Subtotal marine shells	1	1	0	—	—
4515 marine shells	1	1	0	—	—
Subtotal non-ferrous ores and scrap	126	25	102	—	—
4630 copper ore	0	—	0	—	—
4650 aluminum ore	13	5	8	—	—
4670 manganese ore	0	0	0	—	—
4680 non-ferrous scrap	105	18	87	—	—
4690 non-ferrous ores nec	9	2	7	—	—
Subtotal sulphur, clay and salt	413	19	394	—	—
4741 sulphur, (dry)	354	0	353	—	—
4782 clay & refrac. mat.	59	19	41	—	—
Subtotal slag	0	0	0	—	—
4860 slag	0	0	0	—	—
Subtotal other non-metal. min.	167	123	44	0	0
4900 non-metal. min. nec	167	123	44	0	0
Total primary manufactured goods	5,505	4,740	548	211	6
Subtotal paper products	860	370	276	209	5
5110 newsprint	229	48	2	174	5
5120 paper & paperboard	476	214	227	35	—
5190 paper products nec	154	108	47	0	—
Subtotal lime, cement and glass	2,255	2,138	116	0	0
5210 lime	0	0	0	—	—
5220 cement & concrete	1,082	1,082	20	—	—
5240 glass & glass prod.	199	170	29	0	0
5290 misc. mineral prod.	974	907	66	0	0
Subtotal primary iron and steel products	1,033	997	35	0	1
5312 pig iron	11	8	3	—	—
5315 ferro alloys	17	14	2	—	—
5320 i&s primary forms	42	40	2	0	—
5330 i&s plates & sheets	536	526	11	—	—
5360 i&s bars & shapes	205	201	5	—	—
5370 i&s pipe & tube	162	150	11	—	1
5390 primary i&s nec	60	59	1	—	—
Subtotal primary non-ferrous metal products	1,290	1,179	109	1	0
5421 copper	49	36	13	—	—
5422 aluminum	69	37	32	—	0
5429 smelted prod. nec	36	24	12	0	—

LONG BEACH HARBOR, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
5480 fab. metal products	1,135	1,083	52	1	0
Subtotal primary wood products	68	56	12	0	—
5540 primary wood prod.	68	56	12	0	—
Total food and farm products	4,558	1,950	2,602	5	0
Subtotal fish	339	259	79	0	0
6134 fish (not shellfish)	168	122	46	0	0
6136 shellfish	171	137	34	0	0
Subtotal grain	67	33	33	0	—
6241 wheat	0	—	0	—	—
6344 corn	14	1	13	—	—
6442 rice	49	32	17	—	—
6443 barley & rye	0	0	0	0	—
6445 oats	0	—	0	0	—
6447 sorghum grains	2	—	2	—	—
Subtotal oilseeds	64	10	53	—	—
6521 peanuts	1	0	1	—	—
6522 soybeans	40	0	40	—	—
6590 oilseeds nec	22	10	12	—	—
Subtotal vegetable products	513	252	258	2	0
6653 vegetable oils	72	50	22	0	0
6654 vegetables & prod.	441	202	237	2	0
Subtotal processed grain and animal feed	833	98	735	1	0
6746 wheat flour	14	1	13	0	—
6747 grain mill products	93	51	42	0	0
6781 hay & fodder	494	0	494	—	—
6782 animal feed, prep.	232	46	186	—	—
Subtotal other agricultural products	2,742	1,298	1,443	1	0
6811 meat, fresh, frozen	336	44	293	0	—
6817 meat, prepared	36	11	25	—	—
6822 dairy products	37	12	24	—	—
6835 fish, prepared	120	111	9	0	—
6838 tallow, animal oils	76	2	74	—	—
6839 animals & prod. nec	131	23	108	—	—
6856 bananas & plantains	317	308	10	—	—
6857 fruit & nuts nec	428	109	319	—	0
6858 fruit juices	224	165	59	0	—
6861 sugar	5	1	4	—	—
6865 molasses	15	15	0	—	—
6871 coffee	101	93	9	0	0
6872 cocoa beans	9	9	0	—	—
6885 alcoholic beverages	323	207	115	1	—
6888 water & ice	56	51	5	0	—
6889 food products nec	266	111	155	0	0
6891 tobacco & products	48	6	42	0	—
6893 cotton	173	1	172	—	—
6894 natural fibers nec	7	5	1	—	—
6899 farm products nec	32	15	17	—	—
Total all manufactured equipment, machinery and products	10,950	10,095	852	2	1
7110 machinery (not elec)	1,093	900	193	0	0
7120 electrical machinery	2,480	2,326	153	0	0
7210 vehicles & parts	775	706	69	0	0
7220 aircraft & parts	6	2	5	0	—
7230 ships & boats	3	2	1	0	—
7300 ordnance & access.	8	6	2	—	—
7400 manufac. wood prod.	158	141	17	0	0
7500 textile products	1,487	1,369	118	0	0
7600 rubber & plastic pr.	968	840	127	0	0
7900 manufac. prod. nec	3,971	3,804	167	1	0
Total unknown or not elsewhere classified	136	76	60	0	0
9900 unknown or nec	136	76	60	0	0

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	18,675	15,962	2,104	461	87	61
Total petroleum and petroleum products	16,724	14,392	1,733	458	84	57
Subtotal crude petroleum	13,016	12,691	325	—	—	—
2100 crude petroleum	13,016	12,691	325	—	—	—
Subtotal petroleum products	3,708	1,700	1,408	458	84	57
2211 gasoline	1,613	979	634	0	—	—
2221 kerosene	23	23	—	—	—	—
2330 distillate fuel oil	849	418	420	6	5	—
2340 residual fuel oil	1,001	127	290	447	79	57
2350 lube oil & greases	92	88	0	5	0	—
2410 petro. jelly & waxes	1	—	1	—	—	—
2429 naphtha & solvents	129	66	64	—	—	—
2540 petroleum coke	0	—	0	—	—	—
Total chemicals and related products	662	640	22	—	—	—
Subtotal fertilizers	1	—	1	—	—	—
3190 fert. & mixes nec	1	—	1	—	—	—
Subtotal other chemicals and related products	661	640	21	—	—	—
3211 acyclic hydrocarbons	3	—	3	—	—	—
3219 other hydrocarbons	5	4	1	—	—	—
3220 alcohols	16	15	0	—	—	—

LONG BEACH HARBOR, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic					
		Coastwise		Internal			
		Receipts	Shipments	Receipts	Shipments	Intraport	
3230	carboxylic acids	2	—	2	—	—	—
3250	organo - inorg. comp.	0	—	0	—	—	—
3260	organic comp. nec	4	3	1	—	—	—
3274	sodium hydroxide	38	38	—	—	—	—
3275	inorg. elem.,oxides, & halogen salts	1	—	1	—	—	—
3281	radioactive material	0	—	0	—	—	—
3282	pigments & paints	0	0	0	—	—	—
3284	medicines	0	—	0	—	—	—
3285	perfumes & cleansers	0	0	0	—	—	—
3286	plastics	3	—	3	—	—	—
3292	starches, gluten, glue	0	—	0	—	—	—
3293	explosives	0	—	0	—	—	—
3297	chemical additives	575	575	—	—	—	—
3298	wood & resin chem.	9	3	6	—	—	—
3299	chem. products nec	4	1	3	—	—	—
Total crude materials, inedible except fuels		764	738	18	2	2	4
Subtotal forest products, wood and chips		205	204	0	—	—	—
4189	lumber	204	204	0	—	—	—
4190	forest products nec	0	0	0	—	—	—
Subtotal pulp and waste paper		5	—	5	—	—	—
4225	pulp & waste paper	5	—	5	—	—	—
Subtotal soil, sand, gravel, rock and stone		553	534	12	2	1	4
4323	gypsum	0	—	0	—	—	—
4331	sand & gravel	553	534	12	2	1	4
Subtotal iron ore and scrap		1	—	0	—	0	—
4420	iron & steel scrap	1	—	0	—	0	—
Subtotal marine shells		0	—	0	—	—	—
4515	marine shells	0	—	0	—	—	—
Subtotal non-ferrous ores and scrap		1	0	0	—	—	—
4630	copper ore	0	—	0	—	—	—
4680	non-ferrous scrap	1	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		14	4	10	—	—	—
Subtotal paper products		2	0	2	—	—	—
5110	newsprint	0	—	0	—	—	—
5120	paper & paperboard	2	0	2	—	—	—
5190	paper products nec	0	—	0	—	—	—
Subtotal lime, cement and glass		6	4	3	—	—	—
5240	glass & glass prod.	4	4	0	—	—	—
5290	misc. mineral prod.	3	—	3	—	—	—
Subtotal primary iron and steel products		5	1	5	—	—	—
5330	i&s plates & sheets	0	—	0	—	—	—
5360	i&s bars & shapes	4	—	4	—	—	—
5370	i&s pipe & tube	1	1	0	—	—	—
Subtotal primary non-ferrous metal products		0	0	0	—	—	—
5421	copper	0	—	0	—	—	—
5422	aluminum	0	—	0	—	—	—
5429	smelted prod. nec	0	—	0	—	—	—
5480	fab. metal products	0	0	0	—	—	—
Total food and farm products		185	143	43	—	—	—
Subtotal fish		1	1	0	—	—	—
6134	fish (not shellfish)	0	0	0	—	—	—
6136	shellfish	1	1	0	—	—	—
Subtotal grain		0	—	0	—	—	—
6344	corn	0	—	0	—	—	—
Subtotal oilseeds		0	—	0	—	—	—
6521	peanuts	0	—	0	—	—	—
Subtotal vegetable products		2	—	2	—	—	—
6654	vegetables & prod.	2	—	2	—	—	—
Subtotal processed grain and animal feed		17	10	7	—	—	—
6746	wheat flour	6	0	6	—	—	—
6747	grain mill products	0	0	0	—	—	—
6782	animal feed, prep.	11	9	2	—	—	—
Subtotal other agricultural products		165	132	33	—	—	—
6811	meat, fresh, frozen	2	—	2	—	—	—
6817	meat, prepared	2	—	2	—	—	—
6822	dairy products	0	—	0	—	—	—
6835	fish, prepared	130	130	—	—	—	—
6838	tallow, animal oils	0	—	0	—	—	—
6839	animals & prod. nec	3	—	3	—	—	—
6857	fruit & nuts nec	13	0	13	—	—	—
6858	fruit juices	1	1	0	—	—	—
6861	sugar	0	—	0	—	—	—
6871	coffee	0	0	0	—	—	—
6885	alcoholic beverages	2	—	2	—	—	—
6888	water & ice	0	0	—	—	—	—
6889	food products nec	4	1	3	—	—	—
6891	tobacco & products	1	—	1	—	—	—
6894	natural fibers nec	0	—	0	—	—	—

LONG BEACH HARBOR, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Receipts	Internal	
		Receipts	Shipments		Shipments	Intraport
6899 farm products nec	6	—	6	—	—	—
Total all manufactured equipment, machinery and products	323	44	277	1	1	0
7110 machinery (not elec)	1	0	1	0	—	—
7120 electrical machinery	0	0	0	—	—	—
7210 vehicles & parts	19	7	13	—	—	—
7220 aircraft & parts	0	—	0	—	—	—
7230 ships & boats	0	0	—	—	—	—
7400 manufac. wood prod.	0	—	0	—	—	—
7500 textile products	24	12	13	—	—	—
7600 rubber & plastic pr.	1	0	1	—	—	—
7800 empty containers	0	0	—	—	—	—
7900 manufac. prod. nec	276	24	250	1	1	0
Total unknown or not elsewhere classified	3	1	2	—	—	—
9900 unknown or nec	3	1	2	—	—	—

*Includes 1,251 (x1000) tons of foreign inbound in-transits; Includes 336 (x1000) tons of foreign outbound in-transits;
Includes 6 (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
1990	46,352	1993	43,623	1996	45,689	1999	42,267
1991	47,008	1994	43,140	1997	41,774		
1992	40,104	1995	46,479	1998	44,144		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
Total, all commodities	36,658	23,947	12,156	546	10
Total coal	2,709	0	2,709	—	—
1100 coal lignite	2,708	0	2,708	—	—
1200 coal coke	1	—	1	—	—
Total petroleum and petroleum products	6,687	4,673	1,840	174	0
Subtotal crude petroleum	1,557	1,557	—	—	—
2100 crude petroleum	1,557	1,557	—	—	—
Subtotal petroleum products	5,129	3,116	1,840	174	0
2211 gasoline	115	115	0	—	—
2221 kerosene	1,763	1,706	0	56	—
2330 distillate fuel oil	689	522	49	117	0
2340 residual fuel oil	519	451	68	—	—
2350 lube oil & greases	74	4	70	—	—
2410 petro. jelly & waxes	24	20	4	—	—
2429 naphtha & solvents	684	296	388	0	—
2430 asphalt, tar & pitch	21	0	21	—	—
2540 petroleum coke	1,237	0	1,237	0	—
2640 liquid natural gas	3	1	2	—	—
Total chemicals and related products	3,544	1,257	2,049	237	1
Subtotal fertilizers	67	31	36	0	—
3110 nitrogenous fert.	22	19	2	—	—
3120 phosphatic fert.	0	0	0	—	—
3130 potassic fert.	0	0	0	—	—
3190 fert. & mixes nec	45	12	33	0	—
Subtotal other chemicals and related products	3,477	1,226	2,013	237	1
3211 acyclic hydrocarbons	44	0	43	0	—
3212 benzene & toluene	0	0	0	—	—
3219 other hydrocarbons	39	8	31	0	—
3220 alcohols	108	20	50	38	—
3230 carboxylic acids	96	52	44	0	—
3240 nitrogen func. comp.	150	32	119	0	0
3250 organo - inorg. comp.	104	22	82	—	—
3260 organic comp. nec	744	505	54	184	0
3271 sulphur (liquid)	2	—	2	—	—
3272 sulphuric acid	3	2	0	—	—
3273 ammonia	1	0	1	—	—
3274 sodium hydroxide	24	19	5	—	—
3275 inorg. elem., oxides, & halogen salts	182	53	129	0	—
3276 metallic salts	356	26	328	2	—
3279 inorganic chem. nec	6	5	1	0	—
3281 radioactive material	4	2	2	—	—
3282 pigments & paints	78	22	56	0	0
3283 coloring mat. nec	15	10	5	0	—
3284 medicines	28	13	15	0	0
3285 perfumes & cleansers	115	19	95	0	0

LOS ANGELES HARBOR, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
3286 plastics	1,031	310	709	12	0
3291 pesticides	20	6	14	—	—
3292 starches, gluten, glue	83	42	41	0	0
3293 explosives	26	26	0	—	—
3297 chemical additives	64	4	60	—	0
3298 wood & resin chem.	6	2	4	0	—
3299 chem. products nec	148	26	122	1	0
Total crude materials, inedible except fuels	2,403	286	2,045	70	1
Subtotal forest products, wood and chips	283	193	54	36	0
4110 rubber & gums	83	82	1	—	—
4150 fuel wood	3	1	2	—	—
4161 wood chips	5	0	5	—	—
4170 wood in the rough	21	11	10	—	0
4189 lumber	140	73	32	35	—
4190 forest products nec	30	25	4	1	0
Subtotal pulp and waste paper	933	12	888	34	—
4225 pulp & waste paper	933	12	888	34	—
Subtotal soil, sand, gravel, rock and stone	82	43	38	0	0
4310 building stone	2	2	1	0	0
4322 limestone	0	0	0	—	—
4323 gypsum	16	0	16	—	—
4327 phosphate rock	2	1	1	—	—
4331 sand & gravel	61	41	21	—	—
Subtotal iron ore and scrap	743	1	742	—	—
4410 iron ore	2	0	2	—	—
4420 iron & steel scrap	741	1	740	—	—
Subtotal marine shells	1	1	1	—	—
4515 marine shells	1	1	1	—	—
Subtotal non-ferrous ores and scrap	147	21	126	0	0
4630 copper ore	0	—	0	—	—
4650 aluminum ore	10	5	5	0	—
4670 manganese ore	0	—	0	—	—
4680 non-ferrous scrap	113	14	99	0	0
4690 non-ferrous ores nec	24	2	22	—	0
Subtotal sulphur, clay and salt	145	7	138	0	—
4741 sulphur, (dry)	90	1	89	—	—
4782 clay & refrac. mat.	55	6	49	0	—
Subtotal slag	0	—	0	—	—
4860 slag	0	—	0	—	—
Subtotal other non-metal. min.	67	9	58	—	—
4900 non-metal. min. nec	67	9	58	—	—
Total primary manufactured goods	7,096	6,483	575	36	1
Subtotal paper products	658	302	322	34	0
5110 newsprint	68	24	12	32	—
5120 paper & paperboard	472	199	270	3	0
5190 paper products nec	119	79	40	0	0
Subtotal lime, cement and glass	1,772	1,675	96	0	1
5210 lime	0	0	0	—	—
5220 cement & concrete	852	845	7	—	—
5240 glass & glass prod.	191	156	35	0	0
5290 misc. mineral prod.	729	674	54	0	1
Subtotal primary iron and steel products	3,186	3,143	42	1	0
5312 pig iron	9	3	6	—	—
5315 ferro alloys	3	2	1	—	—
5320 i&s primary forms	1,690	1,689	1	0	—
5330 i&s plates & sheets	763	741	22	0	—
5360 i&s bars & shapes	324	321	3	0	0
5370 i&s pipe & tube	352	345	7	0	0
5390 primary i&s nec	44	42	2	1	—
Subtotal primary non-ferrous metal products	1,286	1,180	105	1	0
5421 copper	47	34	13	0	—
5422 aluminum	70	37	32	0	0
5429 smelted prod. nec	50	39	12	0	—
5480 fab. metal products	1,119	1,070	47	1	0
Subtotal primary wood products	193	182	10	—	—
5540 primary wood prod.	193	182	10	—	—
Total food and farm products	4,480	2,411	2,048	16	6
Subtotal fish	218	171	45	3	0
6134 fish (not shellfish)	99	65	31	3	0
6136 shellfish	119	106	13	0	0
Subtotal grain	251	104	146	1	—
6241 wheat	127	0	127	—	—
6344 corn	10	2	8	—	—
6442 rice	111	102	9	—	—
6443 barley & rye	2	0	2	0	—
6445 oats	1	—	1	1	—
6447 sorghum grains	0	—	0	—	—
Subtotal oilseeds	40	5	34	0	—
6521 peanuts	4	0	4	—	—
6522 soybeans	21	0	20	—	—
6590 oilseeds nec	15	5	9	0	—
Subtotal vegetable products	374	188	183	4	0
6653 vegetable oils	30	14	15	1	0

LOS ANGELES HARBOR, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
6654 vegetables & prod.	344	174	167	3	0
Subtotal processed grain and animal feed	620	69	548	3	0
6746 wheat flour	15	1	14	—	—
6747 grain mill products	78	47	30	2	0
6781 hay & fodder	342	2	339	0	—
6782 animal feed, prep.	186	19	165	0	0
Subtotal other agricultural products	2,976	1,874	1,092	6	5
6811 meat, fresh, frozen	462	230	230	2	—
6817 meat, prepared	20	11	9	—	—
6822 dairy products	54	21	33	0	0
6835 fish, prepared	117	109	6	1	0
6838 tallow, animal oils	40	1	40	—	—
6839 animals & prod. nec	126	43	82	0	—
6856 bananas & plantains	588	587	0	—	0
6857 fruit & nuts nec	395	202	191	1	0
6858 fruit juices	233	196	36	0	0
6861 sugar	3	3	1	—	0
6865 molasses	46	46	0	—	—
6871 coffee	68	64	3	—	1
6872 cocoa beans	8	8	0	—	—
6885 alcoholic beverages	210	162	46	0	3
6888 water & ice	63	60	3	0	—
6889 food products nec	266	118	147	0	0
6891 tobacco & products	45	3	42	—	—
6893 cotton	211	0	210	—	1
6894 natural fibers nec	1	1	0	0	—
6899 farm products nec	22	8	13	0	—
Total all manufactured equipment, machinery and products	9,631	8,788	831	11	2
7110 machinery (not elec)	1,034	846	185	3	0
7120 electrical machinery	2,011	1,870	139	1	1
7210 vehicles & parts	1,008	906	101	1	0
7220 aircraft & parts	5	1	3	0	0
7230 ships & boats	6	3	3	0	0
7300 ordnance & access.	8	3	5	—	—
7400 manufac. wood prod.	144	131	10	3	0
7500 textile products	1,161	1,062	97	2	0
7600 rubber & plastic pr.	1,031	897	133	1	0
7900 manufac. prod. nec	3,223	3,069	152	2	0
Total unknown or not elsewhere classified	108	48	59	1	0
9900 unknown or nec	108	48	59	1	0

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	5,609	3,315	1,501	86	461	245
Total petroleum and petroleum products	3,489	2,252	449	84	458	245
Subtotal crude petroleum	237	208	29	—	—	—
2100 crude petroleum	237	208	29	—	—	—
Subtotal petroleum products	3,252	2,044	420	84	458	245
2211 gasoline	920	825	95	—	0	—
2221 kerosene	58	58	—	—	—	—
2330 distillate fuel oil	511	326	156	5	6	17
2340 residual fuel oil	1,394	488	157	79	447	223
2350 lube oil & greases	260	246	4	0	5	5
2429 naphtha & solvents	51	51	—	—	—	—
2430 asphalt, tar & pitch	40	40	0	—	—	—
2640 liquid natural gas	0	0	0	—	—	—
2990 petro. products nec	17	9	7	—	—	—
Total chemicals and related products	325	257	68	—	—	—
Subtotal fertilizers	14	—	14	—	—	—
3190 fert. & mixes nec	14	—	14	—	—	—
Subtotal other chemicals and related products	311	257	55	—	—	—
3212 benzene & toluene	7	7	—	—	—	—
3274 sodium hydroxide	63	63	—	—	—	—
3275 inorg. elem., oxides, & halogen salts	0	0	—	—	—	—
3281 radioactive material	1	—	—	—	—	—
3282 pigments & paints	12	0	12	—	—	—
3284 medicines	4	0	4	—	—	—
3285 perfumes & cleansers	20	0	19	—	—	—
3286 plastics	1	—	1	—	—	—
3291 pesticides	1	—	1	—	—	—
3293 explosives	1	—	1	—	—	—
3297 chemical additives	180	173	6	—	—	—
3298 wood & resin chem.	22	12	10	—	—	—
Total crude materials, inedible except fuels	386	353	30	1	2	—
Subtotal forest products, wood and chips	25	9	15	—	—	—
4189 lumber	24	9	14	—	—	—
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	344	327	13	1	2	—
4331 sand & gravel	342	327	11	1	2	—
4338 soil & fill dirt	2	—	2	—	—	—

LOS ANGELES HARBOR, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Subtotal iron ore and scrap	16	16	---	---	---	---
4420 iron & steel scrap	16	16	---	---	---	---
Subtotal other non-metal. min.	2	0	2	---	---	---
4900 non-metal. min. nec	2	0	2	---	---	---
Total primary manufactured goods	119	7	111	---	---	---
Subtotal paper products	32	5	27	---	---	---
5110 newsprint	0	---	0	---	---	---
5120 paper & paperboard	6	0	6	---	---	---
5190 paper products nec	26	5	21	---	---	---
Subtotal lime, cement and glass	46	0	46	---	---	---
5210 lime	0	---	0	---	---	---
5220 cement & concrete	13	0	13	---	---	---
5240 glass & glass prod.	0	---	0	---	---	---
5290 misc. mineral prod.	32	0	32	---	---	---
Subtotal primary iron and steel products	1	0	1	---	---	---
5370 i&s pipe & tube	1	0	1	---	---	---
Subtotal primary non-ferrous metal products	38	2	37	---	---	---
5480 fab. metal products	38	2	37	---	---	---
Subtotal primary wood products	2	0	2	---	---	---
5540 primary wood prod.	2	0	2	---	---	---
Total food and farm products	590	268	323	---	---	---
Subtotal fish	2	0	2	---	---	---
6134 fish (not shellfish)	2	0	2	---	---	---
Subtotal grain	0	---	0	---	---	---
6442 rice	0	---	0	---	---	---
Subtotal vegetable products	28	7	21	---	---	---
6653 vegetable oils	0	0	---	---	---	---
6654 vegetables & prod.	28	7	21	---	---	---
Subtotal processed grain and animal feed	21	2	19	---	---	---
6746 wheat flour	6	---	6	---	---	---
6747 grain mill products	2	0	2	---	---	---
6781 hay & fodder	1	---	1	---	---	---
6782 animal feed, prep.	12	2	10	---	---	---
Subtotal other agricultural products	539	258	280	---	---	---
6811 meat, fresh, frozen	28	0	28	---	---	---
6822 dairy products	5	0	5	---	---	---
6835 fish, prepared	90	90	---	---	---	---
6839 animals & prod. nec	3	3	0	---	---	---
6856 bananas & plantains	4	---	4	---	---	---
6857 fruit & nuts nec	3	0	3	---	---	---
6858 fruit juices	99	97	2	---	---	---
6861 sugar	0	0	0	---	---	---
6871 coffee	1	0	0	---	---	---
6885 alcoholic beverages	93	0	93	---	---	---
6887 groceries	19	0	19	---	---	---
6889 food products nec	186	61	125	---	---	---
6891 tobacco & products	1	---	1	---	---	---
6899 farm products nec	7	7	0	---	---	---
Total all manufactured equipment, machinery and products	699	179	518	1	1	0
7110 machinery (not elec)	73	28	45	---	0	---
7120 electrical machinery	13	1	12	---	---	---
7210 vehicles & parts	90	34	57	---	---	---
7220 aircraft & parts	0	0	0	---	---	---
7230 ships & boats	1	0	1	---	---	---
7400 manufac. wood prod.	4	1	3	---	---	---
7500 textile products	19	10	9	---	---	---
7600 rubber & plastic pr.	6	1	5	---	---	---
7900 manufac. prod. nec	491	102	387	1	1	0
Total unknown or not elsewhere classified	1	0	1	---	---	---
9900 unknown or nec	1	0	1	---	---	---

*Includes 728 (x1000) tons of foreign inbound in-transits; Includes 272 (x1000) tons of foreign outbound in-transits;
Includes 47 (x1000) tons of Canadian inbound in-transits; Includes 6 (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
1990	574	1993	696	1996	943	1999	1,121
1991	416	1994	814	1997	988		
1992	474	1995	1,076	1998	1,328		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Domestic			
		Imports*	Exports*	Total	Coastwise		Internal Shipments
					Receipts	Shipments	
Total, all commodities	1,120	929	100	91	82	9	
Total petroleum and petroleum products	82	---	---	82	82	---	
Subtotal petroleum products	82	---	---	82	82	---	
2330 distillate fuel oil	4	---	---	4	4	---	
2340 residual fuel oil	78	---	---	78	78	---	
Total chemicals and related products	39	39	---	---	---	---	
Subtotal fertilizers	39	39	---	---	---	---	
3110 nitrogenous fert.	39	39	---	---	---	---	
Total crude materials, inedible except fuels	42	42	0	---	---	---	
Subtotal pulp and waste paper	41	41	---	---	---	---	
4225 pulp & waste paper	41	41	---	---	---	---	
Subtotal iron ore and scrap	1	1	---	---	---	---	
4420 iron & steel scrap	1	1	---	---	---	---	
Subtotal non-ferrous ores and scrap	0	---	0	---	---	---	
4680 non-ferrous scrap	0	---	0	---	---	---	
Total primary manufactured goods	1	1	0	---	---	---	
Subtotal paper products	0	0	0	---	---	---	
5120 paper & paperboard	0	0	0	---	---	---	
Subtotal lime, cement and glass	0	---	0	---	---	---	
5240 glass & glass prod.	0	---	0	---	---	---	
5290 misc. mineral prod.	0	---	0	---	---	---	
Subtotal primary iron and steel products	0	0	---	---	---	---	
5330 i&s plates & sheets	0	0	---	---	---	---	
5360 i&s bars & shapes	0	0	---	---	---	---	
5370 i&s pipe & tube	0	0	---	---	---	---	
Subtotal primary non-ferrous metal products	0	0	0	---	---	---	
5422 aluminum	0	---	0	---	---	---	
5429 smelted prod. nec	0	---	0	---	---	---	
5480 fab. metal products	0	0	0	---	---	---	
Subtotal primary wood products	1	0	0	---	---	---	
5540 primary wood prod.	1	0	0	---	---	---	
Total food and farm products	597	508	89	---	---	---	
Subtotal fish	8	8	---	---	---	---	
6134 fish (not shellfish)	0	0	---	---	---	---	
6136 shellfish	8	8	---	---	---	---	
Subtotal vegetable products	0	---	0	---	---	---	
6654 vegetables & prod.	0	---	0	---	---	---	
Subtotal processed grain and animal feed	0	---	0	---	---	---	
6782 animal feed, prep.	0	---	0	---	---	---	
Subtotal other agricultural products	590	500	89	---	---	---	
6811 meat, fresh, frozen	0	---	0	---	---	---	
6822 dairy products	0	---	0	---	---	---	
6835 fish, prepared	0	0	---	---	---	---	
6839 animals & prod. nec	0	---	0	---	---	---	
6856 bananas & plantains	477	477	---	---	---	---	
6857 fruit & nuts nec	111	23	89	---	---	---	
6858 fruit juices	1	1	0	---	---	---	
6889 food products nec	0	---	0	---	---	---	
Total all manufactured equipment, machinery and products	357	338	9	9	---	9	
7110 machinery (not elec)	47	37	1	9	---	9	
7120 electrical machinery	0	0	0	---	---	---	
7210 vehicles & parts	308	300	7	---	---	---	
7220 aircraft & parts	0	0	---	---	---	---	
7230 ships & boats	0	0	0	---	---	---	
7300 ordnance & access.	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	2	1	1	---	---	---	
9900 unknown or nec	2	1	1	---	---	---	

*Includes 53 (x1000) tons of foreign inbound in-transits; Includes 0 (x1000) tons of foreign outbound in-transits.

Other Harbors and Waterways 1999

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	No Commerce Reported	
SANTA BARBARA HARBOR, CA	No Commerce Reported	

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
1990	1,574	1993	1,094	1996	1,289	1999	925
1991	1,335	1994	1,573	1997	1,178		
1992	1,160	1995	1,171	1998	946		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			Internal Inbound Upbound
		Imports	Exports	Imports	Total	Coastwise		
					Receipts	Shipments		
Total, all commodities	925	175	661	25	65	46	9	10
Total petroleum and petroleum products	35	---	35	---	---	---	---	---
Subtotal petroleum products	35	---	35	---	---	---	---	---
2429 naphtha & solvents	35	---	35	---	---	---	---	---
Total chemicals and related products	238	161	1	25	52	46	6	---
Subtotal fertilizers	175	138	---	25	12	12	---	---
3110 nitrogenous fert.	175	138	---	25	12	12	---	---
Subtotal other chemicals and related products	63	23	1	---	39	33	6	---
3272 sulphuric acid	0	---	---	---	0	---	0	---
3273 ammonia	56	23	---	---	33	33	---	---
3274 sodium hydroxide	6	---	---	---	6	---	6	---
3275 inorg. elem., oxides, & halogen salts	0	---	0	---	---	---	---	---
3276 metallic salts	1	---	1	---	---	---	---	---
3286 plastics	0	---	0	---	---	---	---	---
Total crude materials, inedible except fuels	237	---	224	---	14	---	3	10
Subtotal forest products, wood and chips	210	---	207	---	3	---	3	---
4161 wood chips	205	---	202	---	3	---	3	---
4170 wood in the rough	6	---	6	---	---	---	---	---
Subtotal pulp and waste paper	0	---	0	---	---	---	---	---
4225 pulp & waste paper	0	---	0	---	---	---	---	---
Subtotal marine shells	10	---	---	---	10	---	---	10
4515 marine shells	10	---	---	---	10	---	---	10
Subtotal sulphur, clay and salt	16	---	16	---	---	---	---	---
4741 sulphur, (dry)	16	---	16	---	---	---	---	---
Total primary manufactured goods	5	5	0	---	---	---	---	---
Subtotal lime, cement and glass	0	---	0	---	---	---	---	---
5240 glass & glass prod.	0	---	0	---	---	---	---	---
Subtotal primary iron and steel products	5	5	---	---	---	---	---	---
5360 i&s bars & shapes	5	5	---	---	---	---	---	---
Total food and farm products	411	9	402	---	---	---	---	---
Subtotal fish	0	---	0	---	---	---	---	---
6134 fish (not shellfish)	0	---	0	---	---	---	---	---
Subtotal grain	385	4	382	---	---	---	---	---
6442 rice	385	4	382	---	---	---	---	---
Subtotal oilseeds	20	0	20	---	---	---	---	---
6590 oilseeds nec	20	0	20	---	---	---	---	---
Subtotal vegetable products	0	---	0	---	---	---	---	---
6654 vegetables & prod.	0	---	0	---	---	---	---	---
Subtotal processed grain and animal feed	5	5	0	---	---	---	---	---
6782 animal feed, prep.	5	5	0	---	---	---	---	---
Subtotal other agricultural products	1	---	1	---	---	---	---	---
6811 meat, fresh, frozen	0	---	0	---	---	---	---	---
6857 fruit & nuts nec	0	---	0	---	---	---	---	---
6885 alcoholic beverages	0	---	0	---	---	---	---	---
6899 farm products nec	0	---	0	---	---	---	---	---

SACRAMENTO RIVER, CA (INCLUDING COMMERCE OF SACRAMENTO RIVER DEEPWATER SHIP CHANNEL AND THE PORT OF SACRAMENTO, CA)
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			
		Imports	Exports	Imports	Total	Coastwise		Internal
					Receipts	Shipments	Inbound Upbound	
Total all manufactured equipment, machinery and products	0	---	0	---	---	---	---	
7120 electrical machinery	0	---	0	---	---	---	---	
7600 rubber & plastic pr.	0	---	0	---	---	---	---	
Total unknown or not elsewhere classified	0	---	0	---	---	---	---	
9900 unknown or nec	0	---	0	---	---	---	---	
Ton-miles (x1000)	78,613	15,026	56,851	2,118	4,618	3,921	697	

Tons All Traffic (x1000) **925**
Ton-miles All Traffic (x1000) **78,613**

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
1990	1,359	1993	1,078	1996	1,240	1999	912
1991	1,197	1994	1,542	1997	1,143		
1992	1,136	1995	1,131	1998	925		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Imports	Exports	Imports	Total	Coastwise	
					Receipts	Shipments	
Total, all commodities	912	175	661	25	52	46	6
Total petroleum and petroleum products	35	---	35	---	---	---	---
Subtotal petroleum products	35	---	35	---	---	---	---
2429 naphtha & solvents	35	---	35	---	---	---	---
Total chemicals and related products	238	161	1	25	52	46	6
Subtotal fertilizers	175	138	---	25	12	12	---
3110 nitrogenous fert.	175	138	---	25	12	12	---
Subtotal other chemicals and related products	63	23	1	---	39	33	6
3272 sulphuric acid	0	---	---	---	0	---	0
3273 ammonia	56	23	---	---	33	33	---
3274 sodium hydroxide	6	---	---	---	6	---	6
3275 inorg. elem., oxides, & halogen salts	0	---	0	---	---	---	---
3276 metallic salts	1	---	1	---	---	---	---
3286 plastics	0	---	0	---	---	---	---
Total crude materials, inedible except fuels	224	---	224	---	---	---	---
Subtotal forest products, wood and chips	207	---	207	---	---	---	---
4161 wood chips	202	---	202	---	---	---	---
4170 wood in the rough	6	---	6	---	---	---	---
Subtotal pulp and waste paper	0	---	0	---	---	---	---
4225 pulp & waste paper	0	---	0	---	---	---	---
Subtotal sulphur, clay and salt	16	---	16	---	---	---	---
4741 sulphur, (dry)	16	---	16	---	---	---	---
Total primary manufactured goods	5	5	0	---	---	---	---
Subtotal lime, cement and glass	0	---	0	---	---	---	---
5240 glass & glass prod.	0	---	0	---	---	---	---
Subtotal primary iron and steel products	5	5	---	---	---	---	---
5360 i&s bars & shapes	5	5	---	---	---	---	---
Total food and farm products	411	9	402	---	---	---	---
Subtotal fish	0	---	0	---	---	---	---
6134 fish (not shellfish)	0	---	0	---	---	---	---
Subtotal grain	385	4	382	---	---	---	---
6442 rice	385	4	382	---	---	---	---
Subtotal oilseeds	20	0	20	---	---	---	---
6590 oilseeds nec	20	0	20	---	---	---	---
Subtotal vegetable products	0	---	0	---	---	---	---
6654 vegetables & prod.	0	---	0	---	---	---	---

SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, CA (INCLUDED IN SACRAMENTO RIVER, CA)
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Imports	Exports		Imports	Total	Coastwise
				Receipts			Shipments
Subtotal processed grain and animal feed	5	5	0	---	---	---	---
6782 animal feed, prep.	5	5	0	---	---	---	---
Subtotal other agricultural products	1	---	1	---	---	---	---
6811 meat, fresh, frozen	0	---	0	---	---	---	---
6857 fruit & nuts nec	0	---	0	---	---	---	---
6885 alcoholic beverages	0	---	0	---	---	---	---
6899 farm products nec	0	---	0	---	---	---	---
Total all manufactured equipment, machinery and products	0	---	0	---	---	---	---
7120 electrical machinery	0	---	0	---	---	---	---
7600 rubber & plastic pr.	0	---	0	---	---	---	---
Total unknown or not elsewhere classified	0	---	0	---	---	---	---
9900 unknown or nec	0	---	0	---	---	---	---
Ton-miles (x1000)	37,391	7,163	27,103	1,010	2,115	1,869	245

Tons All Traffic (x1000) **912**
Ton-miles All Traffic (x1000) **37,391**

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
1990	1,485	1993	1,078	1996	1,240	1999	915
1991	1,226	1994	1,545	1997	1,143		
1992	1,136	1995	1,137	1998	925		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Imports	Exports		Imports	Total	Coastwise
				Receipts			Shipments
Total, all commodities	915	175	661	25	55	46	9
Total petroleum and petroleum products	35	---	35	---	---	---	---
Subtotal petroleum products	35	---	35	---	---	---	---
2429 naphtha & solvents	35	---	35	---	---	---	---
Total chemicals and related products	238	161	1	25	52	46	6
Subtotal fertilizers	175	138	---	25	12	12	---
3110 nitrogenous fert.	175	138	---	25	12	12	---
Subtotal other chemicals and related products	63	23	1	---	39	33	6
3272 sulphuric acid	0	---	---	---	0	---	0
3273 ammonia	56	23	---	---	33	33	---
3274 sodium hydroxide	6	---	---	---	6	---	6
3275 inorg. elem., oxides, & halogen salts	0	---	0	---	---	---	---
3276 metallic salts	1	---	1	---	---	---	---
3286 plastics	0	---	0	---	---	---	---
Total crude materials, inedible except fuels	227	---	224	---	3	---	3
Subtotal forest products, wood and chips	210	---	207	---	3	---	3
4161 wood chips	205	---	202	---	3	---	3
4170 wood in the rough	6	---	6	---	---	---	---
Subtotal pulp and waste paper	0	---	0	---	---	---	---
4225 pulp & waste paper	0	---	0	---	---	---	---
Subtotal sulphur, clay and salt	16	---	16	---	---	---	---
4741 sulphur, (dry)	16	---	16	---	---	---	---
Total primary manufactured goods	5	5	0	---	---	---	---
Subtotal lime, cement and glass	0	---	0	---	---	---	---
5240 glass & glass prod.	0	---	0	---	---	---	---
Subtotal primary iron and steel products	5	5	---	---	---	---	---
5360 i&s bars & shapes	5	5	---	---	---	---	---
Total food and farm products	411	9	402	---	---	---	---
Subtotal fish	0	---	0	---	---	---	---
6134 fish (not shellfish)	0	---	0	---	---	---	---

SACRAMENTO, CA (INCLUDED IN SACRAMENTO RIVER, CA)
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Imports	Exports		Imports	Total	Coastwise
				Receipts			Shipments
Subtotal grain	385	4	382	---	---	---	---
6442 rice	385	4	382	---	---	---	---
Subtotal oilseeds	20	0	20	---	---	---	---
6590 oilseeds nec	20	0	20	---	---	---	---
Subtotal vegetable products	0	---	0	---	---	---	---
6654 vegetables & prod.	0	---	0	---	---	---	---
Subtotal processed grain and animal feed	5	5	0	---	---	---	---
6782 animal feed, prep.	5	5	0	---	---	---	---
Subtotal other agricultural products	1	---	1	---	---	---	---
6811 meat, fresh, frozen	0	---	0	---	---	---	---
6857 fruit & nuts nec	0	---	0	---	---	---	---
6885 alcoholic beverages	0	---	0	---	---	---	---
6899 farm products nec	0	---	0	---	---	---	---
Total all manufactured equipment, machinery and products	0	---	0	---	---	---	---
7120 electrical machinery	0	---	0	---	---	---	---
7600 rubber & plastic pr.	0	---	0	---	---	---	---
Total unknown or not elsewhere classified	0	---	0	---	---	---	---
9900 unknown or nec	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
1990	3,491	1993	2,493	1996	2,716	1999	3,051
1991	3,345	1994	3,337	1997	3,292		
1992	3,530	1995	3,315	1998	3,325		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Imports*	Exports*		Imports	Total	Coastwise
				Receipts			
Total, all commodities	3,051	1,732	924	211	184	90	93
Total petroleum and petroleum products	746	27	696	---	23	23	---
Subtotal petroleum products	746	27	696	---	23	23	---
2211 gasoline	18	12	---	---	6	6	---
2330 distillate fuel oil	32	15	---	---	17	17	---
2340 residual fuel oil	32	---	32	---	---	---	---
2429 naphtha & solvents	14	---	14	---	---	---	---
2540 petroleum coke	649	---	649	---	---	---	---
Total chemicals and related products	509	234	0	211	63	63	---
Subtotal fertilizers	233	199	---	---	35	35	---
3110 nitrogenous fert.	231	196	---	---	35	35	---
3130 potassic fert.	3	3	---	---	---	---	---
3190 fert. & mixes nec	0	0	---	---	---	---	---
Subtotal other chemicals and related products	276	36	0	211	28	28	---
3230 carboxylic acids	0	---	0	---	---	---	---
3273 ammonia	241	27	---	191	22	22	---
3274 sodium hydroxide	26	---	---	20	6	6	---
3275 inorg. elem., oxides, & halogen salts	1	1	---	---	---	---	---
3276 metallic salts	8	8	---	---	---	---	---
3292 starches, gluten, glue	0	0	---	---	---	---	---
3293 explosives	0	---	0	---	---	---	---
Total crude materials, inedible except fuels	338	145	193	---	---	---	---
Subtotal soil, sand, gravel, rock and stone	145	145	---	---	---	---	---
4323 gypsum	145	145	---	---	---	---	---
Subtotal non-ferrous ores and scrap	0	---	0	---	---	---	---
4680 non-ferrous scrap	0	---	0	---	---	---	---
Subtotal sulphur, clay and salt	193	---	193	---	---	---	---
4741 sulphur, (dry)	193	---	193	---	---	---	---
Subtotal other non-metal. min.	0	0	---	---	---	---	---
4900 non-metal. min. nec	0	0	---	---	---	---	---

SAN JOAQUIN RIVER, CA (INCLUDING COMMERCE OF PORT OF STOCKTON, CA)
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Imports*	Exports*	Imports	Total	Coastwise	Internal
					Receipts		Inbound Upbound
Total primary manufactured goods	1,197	1,197	---	---	---	---	---
Subtotal lime, cement and glass	398	398	---	---	---	---	---
5220 cement & concrete	398	398	---	---	---	---	---
Subtotal primary iron and steel products	798	798	---	---	---	---	---
5330 i&s plates & sheets	773	773	---	---	---	---	---
5360 i&s bars & shapes	12	12	---	---	---	---	---
5370 i&s pipe & tube	13	13	---	---	---	---	---
Subtotal primary wood products	1	1	---	---	---	---	---
5540 primary wood prod.	1	1	---	---	---	---	---
Total food and farm products	257	129	34	---	94	1	93
Subtotal grain	28	---	28	---	---	---	---
6241 wheat	26	---	26	---	---	---	---
6344 corn	3	---	3	---	---	---	---
Subtotal oilseeds	34	28	6	---	---	---	---
6590 oilseeds nec	34	28	6	---	---	---	---
Subtotal vegetable products	1	1	---	---	---	---	---
6653 vegetable oils	1	1	---	---	---	---	---
Subtotal other agricultural products	194	99	0	---	94	1	93
6817 meat, prepared	0	---	0	---	---	---	---
6857 fruit & nuts nec	0	---	0	---	---	---	---
6865 molasses	193	99	---	---	94	1	93
Total all manufactured equipment, machinery and products	4	0	1	---	3	3	---
7110 machinery (not elec)	0	---	0	---	---	---	---
7210 vehicles & parts	1	---	1	---	---	---	---
7230 ships & boats	0	---	0	---	---	---	---
7300 ordnance & access.	0	---	0	---	---	---	---
7400 manufac. wood prod.	0	0	---	---	---	---	---
7800 empty containers	3	---	---	---	3	3	---
7900 manufac. prod. nec	0	0	---	---	---	---	---
Total unknown or not elsewhere classified	0	---	0	---	---	---	---
9900 unknown or nec	0	---	0	---	---	---	---
Ton-miles (x1000)	57,283	33,425	10,622	6,724	6,513	2,586	3,926

Tons All Traffic (x1000) 3,051
Ton-miles All Traffic (x1000) 57,283

*Includes 0 (x1000) tons of foreign inbound in-transits; Includes 31 (x1000) tons of foreign outbound 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
1990	1,732	1993	1,103	1996	1,143	1999	1,315
1991	1,491	1994	1,609	1997	1,647		
1992	1,719	1995	1,320	1998	1,339		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Imports*	Exports*	Imports	Total	Coastwise	Internal
					Receipts		Receipts
Total, all commodities	1,315	765	237	159	154	61	93
Total petroleum and petroleum products	14	---	14	---	---	---	---
Subtotal petroleum products	14	---	14	---	---	---	---
2429 naphtha & solvents	14	---	14	---	---	---	---
Total chemicals and related products	416	200	---	159	57	57	---
Subtotal fertilizers	228	193	---	---	35	35	---
3110 nitrogenous fert.	228	193	---	---	35	35	---
3130 potassic fert.	0	0	---	---	---	---	---
3190 fert. & mixes nec	0	0	---	---	---	---	---
Subtotal other chemicals and related products	188	7	---	159	22	22	---
3273 ammonia	181	---	---	159	22	22	---
3275 inorg. elem., oxides, & halogen salts	1	1	---	---	---	---	---
3276 metallic salts	6	6	---	---	---	---	---
3292 starches, gluten, glue	0	0	---	---	---	---	---

STOCKTON, CA (INCLUDED IN SAN JOAQUIN RIVER, CA)
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian Imports	Domestic		
		Imports*	Exports*		Total	Coastwise Receipts	Internal Receipts
Total crude materials, inedible except fuels	194	0	193	---	---	---	---
Subtotal non-ferrous ores and scrap	0	---	0	---	---	---	---
4680 non-ferrous scrap	0	---	0	---	---	---	---
Subtotal sulphur, clay and salt	193	---	193	---	---	---	---
4741 sulphur, (dry)	193	---	193	---	---	---	---
Subtotal other non-metal. min.	0	0	---	---	---	---	---
4900 non-metal. min. nec	0	0	---	---	---	---	---
Total primary manufactured goods	437	437	---	---	---	---	---
Subtotal lime, cement and glass	398	398	---	---	---	---	---
5220 cement & concrete	398	398	---	---	---	---	---
Subtotal primary iron and steel products	38	38	---	---	---	---	---
5330 i&s plates & sheets	13	13	---	---	---	---	---
5360 i&s bars & shapes	12	12	---	---	---	---	---
5370 i&s pipe & tube	13	13	---	---	---	---	---
Subtotal primary wood products	1	1	---	---	---	---	---
5540 primary wood prod.	1	1	---	---	---	---	---
Total food and farm products	250	128	29	---	94	1	93
Subtotal grain	28	---	28	---	---	---	---
6241 wheat	26	---	26	---	---	---	---
6344 corn	3	---	3	---	---	---	---
Subtotal oilseeds	28	28	---	---	---	---	---
6590 oilseeds nec	28	28	---	---	---	---	---
Subtotal other agricultural products	194	99	0	---	94	1	93
6817 meat, prepared	0	---	0	---	---	---	---
6857 fruit & nuts nec	0	---	0	---	---	---	---
6865 molasses	193	99	---	---	94	1	93
Total all manufactured equipment, machinery and products	4	0	1	---	3	3	---
7210 vehicles & parts	1	---	1	---	---	---	---
7230 ships & boats	0	---	0	---	---	---	---
7400 manufac. wood prod.	0	0	---	---	---	---	---
7800 empty containers	3	---	---	---	3	3	---
Total unknown or not elsewhere classified	0	---	0	---	---	---	---
9900 unknown or nec	0	---	0	---	---	---	---

*Includes 0 (x1000) tons of foreign inbound in-transits; Includes 31 (x1000) tons of foreign outbound in-transits.

Other Harbors and Waterways 1999

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, 1999
(thousand short tons)

Locality	Foreign/Canadian		Domestic				Total	Percent	Through*
	Imports	Exports	Coastwise		Internal				
			Receipts	Shipmnts	Receipts Shipmnts	Intraport			Traffic
ALVISO SLOUGH, CA	---	---	---	---	---	---	---	0.00	---
BERKELEY, CA	---	---	---	---	---	---	---	0.00	---
CARQUINEZ STRAIT, CA	2,179	1,283	4,659	661	2,956	82	11,821	18.71	5,567
COYOTE HILL SLOUGH, CA	---	---	---	---	---	---	---	0.00	---
NAPA RIVER, CA	---	---	---	---	49	---	49	0.08	---
NEWARK SLOUGH, CA	---	---	---	---	---	---	---	0.00	---
OAKLAND HARBOR, CA	3,746	5,412	392	1,221	968	---	11,739	18.58	---
OTHER SAN FRANCISCO BAY AREA PORTS, CA	---	---	2,502	---	3,970	138	6,610	10.46	---
PETALUMA RIVER, CA	---	---	---	---	326	---	326	0.52	---
REDWOOD CITY HARBOR, CA	477	162	6	77	14	---	736	1.16	---
RICHMOND HARBOR, CA	9,049	2,214	6,747	2,864	1,061	420	22,356	35.38	---
SACRAMENTO RIVER, CA	199	661	46	9	10	---	925	1.46	---
SAN FRANCISCO HARBOR, CA	869	288	19	---	756	1	1,933	3.06	---
SAN JOAQUIN RIVER, CA**	1,944	924	90	---	93	---	3,051	4.83	---
SAN PABLO BAY AND MARE ISLAND STRAIT, CA	787	206	71	150	682	0	1,896	3.00	16,716
SAN RAFAEL CREEK, CA	---	---	---	---	0	---	0	0.00	---
SUISUN BAY CHANNEL, CA	397	89	63	200	1,002	---	1,751	2.77	3,977
SUISUN CHANNEL, CA	---	---	---	---	---	---	---	0.00	---
TOTAL (UNADJUSTED)	19,648	11,239	14,596	5,182	11,889	640	63,195	---	26,260
PERCENT (UNADJUSTED)	31.09	17.79	23.10	8.20	18.81	1.01	---	100.00	---
NET VOLUME OF TONNAGE FOR THE AREA***	19,648	11,239	14,596	5,182	5,944	640	57,250	---	---
PERCENT (ADJUSTED)	34.32	19.63	25.50	9.05	10.38	1.12	---	100.00	---

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

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

*** 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
1990	61,599	1993	65,727	1996	59,850	1999	50,666
1991	61,150	1994	67,220	1997	53,698		
1992	67,119	1995	61,356	1998	49,929		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Through		Through		Total	Coastwise	
		Upbound	Downbnd	Upbound	Downbnd		Upbound	Downbnd
Total, all commodities	50,666	18,984	11,227	663	13	19,779	14,596	5,182
Total coal	50	44	5	---	---	---	---	---
1100 coal lignite	6	0	5	---	---	---	---	---
1200 coal coke	44	44	---	---	---	---	---	---
Total petroleum and petroleum products	32,078	10,265	4,400	120	---	17,293	13,469	3,824
Subtotal crude petroleum	17,794	7,049	---	---	---	10,745	10,726	20
2100 crude petroleum	17,794	7,049	---	---	---	10,745	10,726	20
Subtotal petroleum products	14,283	3,216	4,400	120	---	6,548	2,744	3,804
2211 gasoline	3,660	439	24	---	---	3,197	1,397	1,801
2221 kerosene	1,015	897	7	68	---	42	42	---
2330 distillate fuel oil	2,362	465	159	39	---	1,699	915	784
2340 residual fuel oil	3,289	123	2,031	7	---	1,129	350	779
2350 lube oil & greases	513	0	112	---	---	401	16	385
2410 petro. jelly & waxes	48	46	0	---	---	1	1	---
2429 naphtha & solvents	2,276	1,207	1,042	6	---	21	19	2
2430 asphalt, tar & pitch	149	31	64	---	---	54	4	50
2540 petroleum coke	967	7	960	---	---	---	---	---
2640 liquid natural gas	1	---	0	---	---	0	0	0
2990 petro. products nec	4	---	---	---	---	4	0	4

SAN FRANCISCO BAY ENTRANCE, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Through		Through		Total	Coastwise	
		Upbound	Downbnd	Upbound	Downbnd		Through	
						Upbound	Downbnd	
Total chemicals and related products	3,093	1,543	556	470	8	515	403	112
Subtotal fertilizers	557	446	15	25	—	70	52	18
3110 nitrogenous fert.	502	423	2	25	—	52	52	—
3120 phosphatic fert.	0	—	0	—	—	—	—	—
3130 potassic fert.	3	3	0	—	—	—	—	—
3190 fert. & mixes nec	52	21	13	—	—	18	0	18
Subtotal other chemicals and related products	2,536	1,096	541	446	8	445	351	94
3211 acyclic hydrocarbons	31	0	11	—	—	20	—	20
3212 benzene & toluene	27	7	0	—	—	19	—	19
3219 other hydrocarbons	12	5	6	—	—	1	1	—
3220 alcohols	79	2	6	68	—	3	0	2
3230 carboxylic acids	19	9	6	—	—	4	1	3
3240 nitrogen func. comp.	20	4	16	—	—	—	—	—
3250 organo - inorg. comp.	8	3	5	—	—	0	0	—
3260 organic comp. nec	1,026	853	6	166	—	1	1	0
3271 sulphur (liquid)	1	—	1	—	—	—	—	—
3272 sulphuric acid	3	1	2	—	—	0	—	0
3273 ammonia	445	51	147	191	—	55	55	—
3274 sodium hydroxide	187	34	4	20	—	129	123	6
3275 inorg. elem., oxides, & halogen salts	66	8	14	—	—	44	40	4
3276 metallic salts	43	15	11	—	8	9	—	9
3279 inorganic chem. nec	5	4	1	—	—	—	—	—
3281 radioactive material	2	1	2	—	—	0	0	0
3282 pigments & paints	22	3	16	—	—	4	0	4
3283 coloring mat. nec	4	1	3	—	—	0	—	0
3284 medicines	7	2	4	—	—	1	0	1
3285 perfumes & cleansers	58	3	39	—	0	16	0	16
3286 plastics	158	45	106	—	—	6	3	3
3291 pesticides	5	2	2	—	—	1	—	1
3292 starches, gluten, glue	42	25	16	0	—	0	0	—
3293 explosives	2	1	0	—	—	0	—	0
3297 chemical additives	193	0	69	—	—	123	117	6
3298 wood & resin chem.	7	0	0	—	—	6	6	0
3299 chem. products nec	66	14	48	—	0	3	2	1
Total crude materials, inedible except fuels	3,632	1,223	2,212	72	2	123	16	107
Subtotal forest products, wood and chips	462	150	288	0	2	22	4	19
4110 rubber & gums	3	2	0	—	—	—	—	—
4150 fuel wood	3	2	1	—	—	0	—	0
4161 wood chips	230	0	225	—	2	3	—	3
4170 wood in the rough	26	3	23	—	—	0	0	—
4189 lumber	185	134	33	0	—	18	3	15
4190 forest products nec	16	9	6	0	—	1	0	0
Subtotal pulp and waste paper	740	1	735	—	—	4	4	0
4225 pulp & waste paper	740	1	735	—	—	4	4	0
Subtotal soil, sand, gravel, rock and stone	1,045	967	5	72	—	1	0	1
4310 building stone	8	8	0	0	—	—	—	—
4322 limestone	56	—	0	56	—	—	—	—
4323 gypsum	877	875	1	—	—	0	0	—
4331 sand & gravel	104	84	4	17	—	0	—	0
4338 soil & fill dirt	1	—	—	—	—	1	0	1
Subtotal iron ore and scrap	786	1	777	—	—	8	2	6
4410 iron ore	0	—	0	—	—	—	—	—
4420 iron & steel scrap	785	1	777	—	—	8	2	6
Subtotal marine shells	0	0	0	—	—	0	0	—
4515 marine shells	0	0	0	—	—	0	0	—
Subtotal non-ferrous ores and scrap	179	99	79	—	—	0	0	0
4630 copper ore	0	0	0	—	—	—	—	—
4650 aluminum ore	101	97	5	—	—	—	—	—
4680 non-ferrous scrap	76	1	74	—	—	0	0	—
4690 non-ferrous ores nec	1	1	0	—	—	0	—	0
Subtotal sulphur, clay and salt	220	1	218	—	—	1	0	1
4741 sulphur, (dry)	211	0	211	—	—	—	—	—
4782 clay & refrac. mat.	9	1	7	—	—	1	0	1
Subtotal slag	7	0	1	—	—	6	6	—
4860 slag	7	0	1	—	—	6	6	—
Subtotal other non-metal. min.	192	3	108	—	0	80	0	80
4900 non-metal. min. nec	192	3	108	—	0	80	0	80
Total primary manufactured goods	2,990	2,743	192	0	—	56	4	51
Subtotal paper products	265	184	67	0	—	15	1	14
5110 newsprint	126	126	0	—	—	0	0	0
5120 paper & paperboard	85	41	39	—	—	4	0	4

SAN FRANCISCO BAY ENTRANCE, CA
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Through		Through		Total	Coastwise	
		Upbound	Downbnd	Upbound	Downbnd		Upbound	Downbnd
5190 paper products nec	54	16	27	0	—	10	0	10
Subtotal lime, cement and glass	1,118	1,049	57	0	—	13	1	12
5220 cement & concrete	830	827	2	—	—	1	0	1
5240 glass & glass prod.	105	68	36	—	—	1	—	1
5290 misc. mineral prod.	183	154	19	0	—	11	1	10
Subtotal primary iron and steel products	1,313	1,294	16	—	—	3	0	2
5312 pig iron	1	0	1	—	—	0	—	0
5315 ferro alloys	2	0	1	—	—	—	—	—
5320 i&s primary forms	1	0	1	—	—	—	—	—
5330 i&s plates & sheets	1,063	1,055	8	—	—	0	0	—
5360 i&s bars & shapes	153	150	1	—	—	3	0	2
5370 i&s pipe & tube	85	82	3	—	—	0	—	0
5390 primary i&s nec	7	7	0	—	—	—	—	—
Subtotal primary non-ferrous metal products	269	202	45	0	—	22	2	21
5421 copper	7	4	2	—	—	0	0	—
5422 aluminum	13	8	5	0	—	—	—	—
5429 smelted prod. nec	12	3	9	—	—	0	0	0
5480 fab. metal products	238	187	28	0	—	22	2	21
Subtotal primary wood products	24	14	7	0	—	3	0	3
5540 primary wood prod.	24	14	7	0	—	3	0	3
Total food and farm products	6,234	1,740	3,427	1	2	1,064	542	522
Subtotal fish	47	10	34	—	0	2	0	2
6134 fish (not shellfish)	29	6	21	—	0	2	0	2
6136 shellfish	18	4	14	—	0	0	0	—
Subtotal grain	706	66	599	—	—	41	—	41
6241 wheat	28	—	28	—	—	—	—	—
6344 corn	14	0	14	—	—	—	—	—
6442 rice	664	66	557	—	—	41	—	41
6443 barley & rye	0	0	0	—	—	—	—	—
6445 oats	0	—	0	—	—	—	—	—
6447 sorghum grains	0	—	0	—	—	—	—	—
Subtotal oilseeds	254	176	77	—	—	0	—	0
6521 peanuts	0	—	0	—	—	—	—	—
6522 soybeans	30	1	29	—	—	—	—	—
6534 flaxseed	0	—	0	—	—	0	—	0
6590 oilseeds nec	224	176	48	—	—	—	—	—
Subtotal vegetable products	734	302	399	0	0	32	3	29
6653 vegetable oils	257	206	50	—	—	0	—	0
6654 vegetables & prod.	477	96	349	0	0	32	3	29
Subtotal processed grain and animal feed	460	36	400	—	1	22	2	21
6746 wheat flour	10	1	4	—	—	5	0	4
6747 grain mill products	61	15	46	—	—	0	0	0
6781 hay & fodder	199	0	198	—	—	1	0	0
6782 animal feed, prep.	189	20	152	—	1	17	1	15
Subtotal other agricultural products	4,033	1,148	1,916	1	1	967	537	430
6811 meat, fresh, frozen	630	56	511	0	0	63	2	62
6817 meat, prepared	34	1	29	—	—	3	—	3
6822 dairy products	97	12	51	0	—	34	0	34
6835 fish, prepared	15	12	4	—	—	—	—	—
6838 tallow, animal oils	39	0	39	—	—	—	—	—
6839 animals & prod. nec	174	6	155	—	1	13	9	4
6856 bananas & plantains	1	0	0	—	—	1	—	1
6857 fruit & nuts nec	511	13	458	0	0	39	1	38
6858 fruit juices	255	128	86	0	0	41	41	0
6861 sugar	812	472	0	—	—	340	339	1
6865 molasses	231	99	0	—	—	132	132	—
6871 coffee	81	72	5	—	—	4	2	2
6872 cocoa beans	20	20	0	—	—	—	—	—
6885 alcoholic beverages	491	181	254	0	0	56	0	55
6887 groceries	74	—	—	—	—	74	0	74
6888 water & ice	42	17	25	—	—	—	—	—
6889 food products nec	341	48	148	—	—	145	9	135
6891 tobacco & products	73	2	70	0	—	1	1	0
6893 cotton	69	0	69	—	—	—	—	—
6894 natural fibers nec	1	1	0	—	—	0	—	0
6899 farm products nec	40	7	12	0	—	21	2	19
Total all manufactured equipment, machinery and products	2,522	1,410	396	0	0	717	156	561
7110 machinery (not elec)	345	196	97	0	0	51	19	32
7120 electrical machinery	466	403	60	0	0	3	0	3
7210 vehicles & parts	357	177	71	—	0	108	29	79
7220 aircraft & parts	1	0	1	—	—	0	0	0
7230 ships & boats	2	1	1	—	—	0	0	0
7300 ordnance & access.	5	0	4	—	—	0	0	0

SAN FRANCISCO BAY ENTRANCE, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Through		Through		Total	Coastwise	
		Upbound	Downbnd	Upbound	Downbnd		Through	
						Upbound	Downbnd	
7400 manufac. wood prod.	72	37	30	—	—	5	1	4
7500 textile products	163	109	21	0	0	33	9	24
7600 rubber & plastic pr.	116	88	24	—	0	4	1	4
7800 empty containers	3	—	—	—	—	3	3	—
7900 manufac. prod. nec	991	397	85	0	0	508	93	415
Total unknown or not elsewhere classified	67	17	38	0	0	11	6	5
9900 unknown or nec	67	17	38	0	0	11	6	5

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
1990	2,297	1993	2,340	1996	1,982	1999	1,933
1991	2,898	1994	1,739	1997	1,003		
1992	3,198	1995	1,330	1998	1,330		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic				
		Imports*	Exports*	Exports*	Total	Coastwise	Internal		
							Receipts	Receipts	Shipments
Total, all commodities	1,933	869	287	1	776	19	752	4	1
Total petroleum and petroleum products	371	173	148	—	49	19	30	—	—
Subtotal crude petroleum	113	113	—	—	—	—	—	—	—
2100 crude petroleum	113	113	—	—	—	—	—	—	—
Subtotal petroleum products	259	61	148	—	49	19	30	—	—
2211 gasoline	19	—	—	—	19	19	—	—	—
2221 kerosene	35	35	0	—	—	—	—	—	—
2330 distillate fuel oil	22	6	—	—	16	—	16	—	—
2340 residual fuel oil	34	20	—	—	14	—	14	—	—
2350 lube oil & greases	0	—	0	—	—	—	—	—	—
2410 petro. jelly & waxes	0	0	0	—	—	—	—	—	—
2429 naphtha & solvents	141	—	141	—	—	—	—	—	—
2430 asphalt, tar & pitch	7	—	7	—	—	—	—	—	—
2540 petroleum coke	0	0	0	—	—	—	—	—	—
Total chemicals and related products	67	60	7	—	—	—	—	—	—
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	65	60	5	—	—	—	—	—	—
3211 acyclic hydrocarbons	0	—	0	—	—	—	—	—	—
3219 other hydrocarbons	0	0	0	—	—	—	—	—	—
3220 alcohols	1	0	1	—	—	—	—	—	—

SAN FRANCISCO HARBOR, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic				
		Imports*	Exports*	Exports*	Total	Coastwise Receipts	Internal		
							Receipts	Shipments	Intraport
3230 carboxylic acids	2	0	2	—	—	—	—	—	—
3240 nitrogen func. comp.	0	0	—	—	—	—	—	—	—
3250 organo - inorg. comp.	0	—	0	—	—	—	—	—	—
3260 organic comp. nec	54	54	0	—	—	—	—	—	—
3275 inorg. elem., oxides, & halogen salts	0	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	1	0	0	—	—	—	—	—	—
3291 pesticides	0	—	0	—	—	—	—	—	—
3292 starches, gluten, glue	3	3	0	—	—	—	—	—	—
3293 explosives	0	—	0	—	—	—	—	—	—
3297 chemical additives	0	—	0	—	—	—	—	—	—
3299 chem. products nec	2	1	1	—	—	—	—	—	—
Total crude materials, inedible except fuels	820	98	16	—	706	0	701	4	1
Subtotal forest products, wood and chips	67	59	0	—	8	—	3	4	1
4150 fuel wood	0	—	0	—	—	—	—	—	—
4161 wood chips	0	—	0	—	—	—	—	—	—
4170 wood in the rough	9	1	—	—	8	—	3	4	1
4189 lumber	57	57	0	—	—	—	—	—	—
4190 forest products nec	0	0	0	—	—	—	—	—	—
Subtotal pulp and waste paper	8	1	7	—	—	—	—	—	—
4225 pulp & waste paper	8	1	7	—	—	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	698	0	0	—	698	—	698	—	—
4310 building stone	0	0	0	—	—	—	—	—	—
4331 sand & gravel	698	0	0	—	698	—	698	—	—
Subtotal iron ore and scrap	5	—	5	—	—	—	—	—	—
4420 iron & steel scrap	5	—	5	—	—	—	—	—	—
Subtotal marine shells	0	0	0	—	—	—	—	—	—
4515 marine shells	0	0	0	—	—	—	—	—	—
Subtotal non-ferrous ores and scrap	38	38	0	—	0	0	—	—	—
4650 aluminum ore	38	38	—	—	—	—	—	—	—
4680 non-ferrous scrap	0	0	0	—	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.	3	—	3	—	—	—	—	—	—
4900 non-metal. min. nec	3	—	3	—	—	—	—	—	—
Total primary manufactured goods	351	327	3	—	21	—	21	—	—
Subtotal paper products	4	3	1	—	—	—	—	—	—
5110 newsprint	3	3	—	—	—	—	—	—	—

SAN FRANCISCO HARBOR, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic				
		Imports*	Exports*	Exports*	Total	Coastwise Receipts	Receipts	Internal Shipments Intraport	
5120 paper & paperboard	1	0	0	—	—	—	—	—	—
5190 paper products nec	1	0	1	—	—	—	—	—	—
Subtotal lime, cement and glass	295	273	1	—	21	—	21	—	—
5220 cement & concrete	259	259	0	—	—	—	—	—	—
5240 glass & glass prod.	3	2	1	—	—	—	—	—	—
5290 misc. mineral prod.	33	12	0	—	21	—	21	—	—
Subtotal primary iron and steel products	45	45	0	—	—	—	—	—	—
5312 pig iron	0	0	—	—	—	—	—	—	—
5315 ferro alloys	0	0	—	—	—	—	—	—	—
5320 i&s primary forms	0	0	—	—	—	—	—	—	—
5330 i&s plates & sheets	33	33	—	—	—	—	—	—	—
5360 i&s bars & shapes	5	5	0	—	—	—	—	—	—
5370 i&s pipe & tube	7	7	0	—	—	—	—	—	—
5390 primary i&s nec	0	0	—	—	—	—	—	—	—
Subtotal primary non-ferrous metal products	5	4	1	—	—	—	—	—	—
5421 copper	1	1	0	—	—	—	—	—	—
5422 aluminum	0	0	0	—	—	—	—	—	—
5429 smelted prod. nec	1	1	0	—	—	—	—	—	—
5480 fab. metal products	3	2	0	—	—	—	—	—	—
Subtotal primary wood products	2	2	0	—	—	—	—	—	—
5540 primary wood prod.	2	2	0	—	—	—	—	—	—
Total food and farm products	280	180	99	1	—	—	—	—	—
Subtotal fish	9	2	6	—	—	—	—	—	—
6134 fish (not shellfish)	8	2	6	—	—	—	—	—	—
6136 shellfish	1	1	0	—	—	—	—	—	—
Subtotal grain	39	4	35	—	—	—	—	—	—
6241 wheat	0	—	0	—	—	—	—	—	—
6344 corn	1	0	1	—	—	—	—	—	—
6442 rice	38	4	34	—	—	—	—	—	—
6443 barley & rye	0	0	—	—	—	—	—	—	—
Subtotal oilseeds	21	20	1	—	—	—	—	—	—
6590 oilseeds nec	21	20	1	—	—	—	—	—	—
Subtotal vegetable products	47	29	19	—	—	—	—	—	—
6653 vegetable oils	29	18	11	—	—	—	—	—	—
6654 vegetables & prod.	18	10	8	—	—	—	—	—	—
Subtotal processed grain and animal feed	9	6	2	1	—	—	—	—	—
6746 wheat flour	0	0	—	—	—	—	—	—	—
6747 grain mill products	1	0	0	—	—	—	—	—	—
6781 hay & fodder	0	—	0	—	—	—	—	—	—
6782 animal feed, prep.	8	6	1	1	—	—	—	—	—
Subtotal other agricultuy	156	119	37	0	—	—	—	—	—
6811 meat, fresh, frozen	28	23	6	—	—	—	—	—	—
6817 meat, prepared	2	0	1	—	—	—	—	—	—
6822 dairy products	10	5	5	—	—	—	—	—	—
6835 fish, prepared	2	2	1	—	—	—	—	—	—
6838 tallow, animal oils	12	—	12	—	—	—	—	—	—
6839 animals & prod. nec	1	1	0	—	—	—	—	—	—

SAN FRANCISCO HARBOR, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic				
		Imports*	Exports*	Exports*	Total	Coastwise Receipts	Internal		
							Receipts	Shipments	Intraport
6856 bananas & plantains	0	0	0	—	—	—	—	—	—
6857 fruit & nuts nec	6	4	3	—	—	—	—	—	—
6858 fruit juices	12	10	3	—	—	—	—	—	—
6861 sugar	23	23	—	—	—	—	—	—	—
6871 coffee	26	26	0	—	—	—	—	—	—
6872 cocoa beans	4	4	0	—	—	—	—	—	—
6885 alcoholic beverages	20	19	1	0	—	—	—	—	—
6888 water & ice	0	0	—	—	—	—	—	—	—
6889 food products nec	5	2	3	—	—	—	—	—	—
6891 tobacco & products	0	0	0	—	—	—	—	—	—
6893 cotton	2	0	2	—	—	—	—	—	—
6894 natural fibers nec	0	0	—	—	—	—	—	—	—
6899 farm products nec	1	1	1	—	—	—	—	—	—
Total all manufactured equipment, machinery and products	39	28	10	0	—	—	—	—	—
7110 machinery (not elec)	10	8	2	—	—	—	—	—	—
7120 electrical machinery	4	3	2	—	—	—	—	—	—
7210 vehicles & parts	6	5	1	0	—	—	—	—	—
7220 aircraft & parts	0	—	0	—	—	—	—	—	—
7230 ships & boats	0	0	0	—	—	—	—	—	—
7300 ordnance & access.	2	0	2	—	—	—	—	—	—
7400 manufac. wood prod.	1	0	1	—	—	—	—	—	—
7500 textile products	1	1	0	—	—	—	—	—	—
7600 rubber & plastic pr.	6	5	1	—	—	—	—	—	—
7900 manufac. prod. nec	7	6	1	—	—	—	—	—	—
Total unknown or not elsewhere classified	5	1	3	—	—	—	—	—	—
9900 unknown or nec	5	1	3	—	—	—	—	—	—

*Includes 22 (x1000) tons of foreign inbound in-transits; Includes 29 (x1000) tons of foreign outbound in-transits; Includes 1 (x1000) tons of Canadian outbound 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
1990	499	1993	1,829	1996	985	1999	736
1991	507	1994	846	1997	1,293		
1992	816	1995	754	1998	861		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			Internal Receipts
		Imports	Exports	Exports	Total	Coastwise		
						Receipts	Shipments	
Total, all commodities	736	477	154	8	97	6	77	14
Total chemicals and related products	8	---	---	8	---	---	---	---
Subtotal other chemicals and related products	8	---	---	8	---	---	---	---
3276 metallic salts	8	---	---	8	---	---	---	---
Total crude materials, inedible except fuels	596	345	154	---	97	6	77	14
Subtotal soil, sand, gravel, rock and stone	360	345	---	---	14	---	---	14
4323 gypsum	345	345	---	---	---	---	---	---
4331 sand & gravel	14	---	---	---	14	---	---	14
Subtotal iron ore and scrap	154	---	154	---	---	---	---	---
4420 iron & steel scrap	154	---	154	---	---	---	---	---
Subtotal slag	6	---	---	---	6	6	---	---
4860 slag	6	---	---	---	6	6	---	---
Subtotal other non-metal. min.	77	---	---	---	77	---	77	---
4900 non-metal. min. nec	77	---	---	---	77	---	77	---
Total primary manufactured goods	132	132	---	---	---	---	---	---
Subtotal lime, cement and glass	129	129	---	---	---	---	---	---
5220 cement & concrete	129	129	---	---	---	---	---	---
Subtotal primary iron and steel products	2	2	---	---	---	---	---	---
5330 i&s plates & sheets	2	2	---	---	---	---	---	---
Total all manufactured equipment, machinery and products	0	0	---	---	---	---	---	---
7230 ships & boats	0	0	---	---	---	---	---	---

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
1990	10,290	1993	12,734	1996	11,230	1999	11,739
1991	10,356	1994	12,914	1997	10,858		
1992	13,211	1995	13,224	1998	11,148		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
Total, all commodities	9,158	3,739	5,410	7	2
Total coal	7	2	5	---	---
1100 coal lignite	6	0	5	---	---
1200 coal coke	1	1	---	---	---

OAKLAND HARBOR, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
Total petroleum and petroleum products	441	274	160	6	---
Subtotal petroleum products	441	274	160	6	---
2211 gasoline	32	32	0	---	---
2221 kerosene	57	56	0	---	---
2330 distillate fuel oil	0	---	0	---	---
2340 residual fuel oil	32	---	32	---	---
2350 lube oil & greases	19	0	18	---	---
2410 petro. jelly & waxes	17	17	0	---	---
2429 naphtha & solvents	213	169	38	6	---
2430 asphalt, tar & pitch	1	0	1	---	---
2540 petroleum coke	70	0	70	---	---
2640 liquid natural gas	0	---	0	---	---
Total chemicals and related products	694	240	455	0	0
Subtotal fertilizers	109	96	14	---	---
3110 nitrogenous fert.	87	85	2	---	---
3120 phosphatic fert.	0	---	0	---	---
3130 potassic fert.	0	0	0	---	---
3190 fert. & mixes nec	22	10	12	---	---
Subtotal other chemicals and related products	585	144	441	0	0
3211 acyclic hydrocarbons	0	0	0	---	---
3212 benzene & toluene	0	0	0	---	---
3219 other hydrocarbons	8	2	6	---	---
3220 alcohols	7	2	5	---	---
3230 carboxylic acids	14	9	4	---	---
3240 nitrogen func. comp.	20	4	16	---	---
3250 organo - inorg. comp.	8	3	5	---	---
3260 organic comp. nec	8	2	6	---	---
3271 sulphur (liquid)	1	---	1	---	---
3272 sulphuric acid	2	1	2	---	---
3273 ammonia	148	1	147	---	---
3274 sodium hydroxide	17	13	4	---	---
3275 inorg. elem., oxides, & halogen salts	20	7	13	---	---
3276 metallic salts	16	6	9	---	---
3279 inorganic chem. nec	2	1	1	---	---
3281 radioactive material	2	1	2	---	---
3282 pigments & paints	18	3	15	---	---
3283 coloring mat. nec	4	1	3	---	---
3284 medicines	6	2	4	---	---
3285 perfumes & cleansers	41	3	39	---	0
3286 plastics	151	45	106	---	---
3291 pesticides	4	2	2	---	---
3292 starches, gluten, glue	38	23	16	0	---
3293 explosives	1	1	0	---	---
3297 chemical additives	6	0	6	---	---
3298 wood & resin chem.	0	0	0	---	---
3299 chem. products nec	40	11	29	---	0
Total crude materials, inedible except fuels	1,707	242	1,464	0	0
Subtotal forest products, wood and chips	151	89	62	0	---
4110 rubber & gums	3	2	0	---	---
4150 fuel wood	3	2	1	---	---
4161 wood chips	4	0	4	---	---
4170 wood in the rough	19	1	18	---	---
4189 lumber	108	75	33	0	---
4190 forest products nec	15	9	6	0	---
Subtotal pulp and waste paper	727	0	727	---	---
4225 pulp & waste paper	727	0	727	---	---
Subtotal soil, sand, gravel, rock and stone	151	146	5	0	---
4310 building stone	8	8	---	0	---
4322 limestone	0	---	0	---	---
4323 gypsum	56	54	1	---	---
4331 sand & gravel	87	84	4	---	---
Subtotal iron ore and scrap	478	1	477	---	---
4410 iron ore	0	---	0	---	---
4420 iron & steel scrap	477	1	477	---	---
Subtotal marine shells	0	0	0	---	---
4515 marine shells	0	0	0	---	---
Subtotal non-ferrous ores and scrap	81	2	79	---	---
4630 copper ore	0	0	0	---	---
4650 aluminum ore	5	0	5	---	---
4680 non-ferrous scrap	76	1	74	---	---
4690 non-ferrous ores nec	1	1	0	---	---
Subtotal sulphur, clay and salt	10	1	9	---	---
4741 sulphur, (dry)	2	0	2	---	---
4782 clay & refrac. mat.	7	1	7	---	---
Subtotal slag	1	0	1	---	---
4860 slag	1	0	1	---	---
Subtotal other non-metal. min.	108	3	105	---	0
4900 non-metal. min. nec	108	3	105	---	0
Total primary manufactured goods	1,061	874	187	0	---
Subtotal paper products	246	180	66	---	---
5110 newsprint	124	123	0	---	---
5120 paper & paperboard	80	41	39	---	---
5190 paper products nec	43	16	27	---	---

OAKLAND HARBOR, CA
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
Subtotal lime, cement and glass	263	208	55	0	---
5220 cement & concrete	2	0	2	---	---
5240 glass & glass prod.	101	66	35	---	---
5290 misc. mineral prod.	160	141	18	0	---
Subtotal primary iron and steel products	295	280	15	---	---
5312 pig iron	1	0	1	---	---
5315 ferro alloys	2	0	1	---	---
5320 i&s primary forms	1	0	1	---	---
5330 i&s plates & sheets	174	166	8	---	---
5360 i&s bars & shapes	68	67	1	---	---
5370 i&s pipe & tube	42	40	2	---	---
5390 primary i&s nec	7	7	0	---	---
Subtotal primary non-ferrous metal products	239	195	44	0	---
5421 copper	6	3	2	---	---
5422 aluminum	13	8	5	0	---
5429 smelted prod. nec	11	2	9	---	---
5480 fab. metal products	209	182	28	0	---
Subtotal primary wood products	18	11	7	0	---
5540 primary wood prod.	18	11	7	0	---
Total food and farm products	3,455	711	2,742	1	1
Subtotal fish	37	8	28	---	0
6134 fish (not shellfish)	19	4	15	---	0
6136 shellfish	17	4	14	---	0
Subtotal grain	142	59	84	---	---
6241 wheat	2	---	2	---	---
6344 corn	11	0	11	---	---
6442 rice	129	58	71	---	---
6443 barley & rye	0	---	0	---	---
6445 oats	0	---	0	---	---
6447 sorghum grains	0	---	0	---	---
Subtotal oilseeds	41	2	39	---	---
6521 peanuts	0	---	0	---	---
6522 soybeans	30	1	29	---	---
6534 flaxseed	0	---	0	---	---
6590 oilseeds nec	11	1	10	---	---
Subtotal vegetable products	446	99	347	0	0
6653 vegetable oils	21	14	7	---	---
6654 vegetables & prod.	426	86	340	0	0
Subtotal processed grain and animal feed	418	25	393	---	---
6746 wheat flour	5	1	4	---	---
6747 grain mill products	60	15	45	---	---
6781 hay & fodder	194	0	194	---	---
6782 animal feed, prep.	159	9	150	---	---
Subtotal other agricultural products	2,371	519	1,851	1	1
6811 meat, fresh, frozen	539	33	506	0	0
6817 meat, prepared	29	1	28	---	---
6822 dairy products	53	7	46	0	---
6835 fish, prepared	13	10	3	---	---
6838 tallow, animal oils	4	0	4	---	---
6839 animals & prod. nec	159	5	154	---	1
6856 bananas & plantains	0	0	0	---	---
6857 fruit & nuts nec	465	9	455	0	0
6858 fruit juices	202	119	83	0	0
6861 sugar	39	39	0	---	---
6865 molasses	0	0	0	---	---
6871 coffee	51	46	5	---	---
6872 cocoa beans	16	16	0	---	---
6885 alcoholic beverages	413	162	251	0	---
6888 water & ice	42	16	25	---	---
6889 food products nec	190	46	144	---	---
6891 tobacco & products	70	2	69	0	---
6893 cotton	67	0	67	---	---
6894 natural fibers nec	1	1	0	---	---
6899 farm products nec	18	7	11	0	---
Total all manufactured equipment, machinery and products	1,742	1,380	362	0	0
7110 machinery (not elec)	283	189	95	0	0
7120 electrical machinery	458	400	58	0	0
7210 vehicles & parts	221	172	49	---	0
7220 aircraft & parts	1	0	1	---	---
7230 ships & boats	2	1	1	---	---
7300 ordnance & access.	1	0	0	---	---
7400 manufac. wood prod.	66	37	29	---	---
7500 textile products	129	108	21	0	0
7600 rubber & plastic pr.	105	82	23	---	0
7900 manufac. prod. nec	475	391	84	0	0
Total unknown or not elsewhere classified	51	16	35	0	0
9900 unknown or nec	51	16	35	0	0

OAKLAND HARBOR, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic			
		Coastwise		Internal	
		Receipts	Shipments	Receipts	Shipments
Total, all commodities	2,581	392	1,221	875	93
Total petroleum and petroleum products	296	1	6	289	---
Subtotal crude petroleum	0	---	0	---	---
2100 crude petroleum	0	---	0	---	---
Subtotal petroleum products	296	1	6	289	---
2340 residual fuel oil	289	---	---	289	---
2350 lube oil & greases	2	0	2	---	---
2410 petro. jelly & waxes	1	1	---	---	---
2429 naphtha & solvents	0	---	0	---	---
2640 liquid natural gas	0	0	0	---	---
2990 petro. products nec	4	0	4	---	---
Total chemicals and related products	65	16	49	---	---
Subtotal fertilizers	18	0	18	---	---
3190 fert. & mixes nec	18	0	18	---	---
Subtotal other chemicals and related products	47	16	31	---	---
3219 other hydrocarbons	1	1	---	---	---
3220 alcohols	0	0	---	---	---
3230 carboxylic acids	4	1	3	---	---
3250 organo - inorg. comp.	0	0	---	---	---
3260 organic comp. nec	1	1	0	---	---
3275 inorg. elem., oxides, & halogen salts	4	1	4	---	---
3281 radioactive material	0	0	0	---	---
3282 pigments & paints	4	0	4	---	---
3283 coloring mat. nec	0	---	0	---	---
3284 medicines	1	0	1	---	---
3285 perfumes & cleansers	16	0	16	---	---
3286 plastics	6	3	3	---	---
3291 pesticides	1	---	1	---	---
3292 starches, gluten, glue	0	0	---	---	---
3293 explosives	0	---	0	---	---
3298 wood & resin chem.	6	6	0	---	---
3299 chem. products nec	3	2	1	---	---
Total crude materials, inedible except fuels	619	10	26	583	---
Subtotal forest products, wood and chips	19	4	15	---	---
4150 fuel wood	0	---	0	---	---
4170 wood in the rough	0	0	---	---	---
4189 lumber	18	3	15	---	---
4190 forest products nec	1	0	0	---	---
Subtotal pulp and waste paper	4	4	0	---	---
4225 pulp & waste paper	4	4	0	---	---
Subtotal soil, sand, gravel, rock and stone	584	0	1	583	---
4323 gypsum	0	0	---	---	---
4331 sand & gravel	583	---	0	583	---
4338 soil & fill dirt	1	0	1	---	---
Subtotal iron ore and scrap	8	2	6	---	---
4420 iron & steel scrap	8	2	6	---	---
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	0	0	0	---	---
4782 clay & refrac. mat.	0	0	0	---	---
Subtotal other non-metal. min.	3	0	3	---	---
4900 non-metal. min. nec	3	0	3	---	---
Total primary manufactured goods	59	4	51	3	---
Subtotal paper products	15	1	14	---	---
5110 newsprint	0	0	0	---	---
5120 paper & paperboard	4	0	4	---	---
5190 paper products nec	10	0	10	---	---
Subtotal lime, cement and glass	16	1	12	3	---
5220 cement & concrete	1	0	1	---	---
5240 glass & glass prod.	1	---	1	---	---
5290 misc. mineral prod.	14	1	10	3	---
Subtotal primary iron and steel products	3	0	2	---	---
5312 pig iron	0	---	0	---	---
5330 i&s plates & sheets	0	0	---	---	---
5360 i&s bars & shapes	3	0	2	---	---
5370 i&s pipe & tube	0	---	0	---	---
Subtotal primary non-ferrous metal products	22	2	21	---	---
5421 copper	0	0	---	---	---
5429 smelted prod. nec	0	0	0	---	---
5480 fab. metal products	22	2	21	---	---
Subtotal primary wood products	3	0	3	---	---
5540 primary wood prod.	3	0	3	---	---
Total food and farm products	818	202	522	---	93
Subtotal fish	2	0	2	---	---
6134 fish (not shellfish)	2	0	2	---	---
6136 shellfish	0	0	---	---	---

OAKLAND HARBOR, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic			
		Coastwise		Internal	
		Receipts	Shipments	Receipts	Shipments
Subtotal grain	41	---	41	---	---
6442 rice	41	---	41	---	---
Subtotal oilseeds	0	---	0	---	---
6534 flaxseed	0	---	0	---	---
Subtotal vegetable products	32	3	29	---	---
6653 vegetable oils	0	---	0	---	---
6654 vegetables & prod.	32	3	29	---	---
Subtotal processed grain and animal feed	22	2	21	---	---
6746 wheat flour	5	0	4	---	---
6747 grain mill products	0	0	0	---	---
6781 hay & fodder	1	0	0	---	---
6782 animal feed, prep.	17	1	15	---	---
Subtotal other agricultural products	720	197	430	---	93
6811 meat, fresh, frozen	63	2	62	---	---
6817 meat, prepared	3	---	3	---	---
6822 dairy products	34	0	34	---	---
6839 animals & prod. nec	13	9	4	---	---
6856 bananas & plantains	1	---	1	---	---
6857 fruit & nuts nec	39	1	38	---	---
6858 fruit juices	41	41	0	---	---
6861 sugar	1	0	1	---	---
6865 molasses	225	131	---	---	93
6871 coffee	4	2	2	---	---
6885 alcoholic beverages	56	0	55	---	---
6887 groceries	74	0	74	---	---
6889 food products nec	145	9	135	---	---
6891 tobacco & products	1	1	0	---	---
6894 natural fibers nec	0	---	0	---	---
6899 farm products nec	21	2	19	---	---
Total all manufactured equipment, machinery and products	713	153	561	---	---
7110 machinery (not elec)	51	19	32	---	---
7120 electrical machinery	3	0	3	---	---
7210 vehicles & parts	108	29	79	---	---
7220 aircraft & parts	0	0	0	---	---
7230 ships & boats	0	0	0	---	---
7300 ordnance & access.	0	0	0	---	---
7400 manufac. wood prod.	5	1	4	---	---
7500 textile products	33	9	24	---	---
7600 rubber & plastic pr.	4	1	4	---	---
7900 manufac. prod. nec	508	93	415	---	---
Total unknown or not elsewhere classified	11	6	5	---	---
9900 unknown or nec	11	6	5	---	---

*Includes 32 (x1000) tons of foreign inbound in-transits; Includes 95 (x1000) tons of foreign outbound in-transits;
Includes 0 (x1000) tons of Canadian inbound in-transits; Includes 0 (x1000) tons of Canadian outbound 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
1990	21,156	1993	24,570	1996	21,803	1999	22,356
1991	19,919	1994	24,094	1997	21,706		
1992	21,042	1995	20,839	1998	19,020		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
Total, all commodities	11,263	8,761	2,212	289	2
Total coal	43	43	---	---	---
1100 coal lignite	0	0	---	---	---
1200 coal coke	43	43	---	---	---

RICHMOND HARBOR, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
Total petroleum and petroleum products	9,671	7,636	1,953	82	---
Subtotal crude petroleum	5,834	5,834	---	---	---
2100 crude petroleum	5,834	5,834	---	---	---
Subtotal petroleum products	3,837	1,803	1,953	82	---
2211 gasoline	77	77	---	---	---
2221 kerosene	525	463	---	63	---
2330 distillate fuel oil	270	250	---	19	---
2340 residual fuel oil	1,281	1	1,280	---	---
2350 lube oil & greases	67	---	67	---	---
2410 petro. jelly & waxes	30	30	---	---	---
2429 naphtha & solvents	1,437	953	483	---	---
2430 asphalt, tar & pitch	42	22	20	---	---
2540 petroleum coke	109	7	102	---	---
Total chemicals and related products	432	221	77	135	---
Subtotal fertilizers	14	14	---	---	---
3110 nitrogenous fert.	4	4	---	---	---
3190 fert. & mixes nec	10	10	---	---	---
Subtotal other chemicals and related products	419	207	77	135	---
3212 benzene & toluene	7	7	---	---	---
3219 other hydrocarbons	3	3	---	---	---
3220 alcohols	63	---	---	63	---
3230 carboxylic acids	0	---	0	---	---
3250 organo - inorg. comp.	0	0	---	---	---
3260 organic comp. nec	250	177	---	72	---
3274 sodium hydroxide	14	14	---	---	---
3276 metallic salts	1	---	1	---	---
3279 inorganic chem. nec	3	3	---	---	---
3282 pigments & paints	0	0	---	---	---
3285 perfumes & cleansers	0	---	0	---	---
3286 plastics	0	0	0	---	---
3297 chemical additives	62	---	62	---	---
3299 chem. products nec	15	2	14	---	---
Total crude materials, inedible except fuels	579	392	113	72	2
Subtotal forest products, wood and chips	4	2	0	---	2
4161 wood chips	2	---	---	---	2
4189 lumber	2	2	0	---	---
Subtotal soil, sand, gravel, rock and stone	403	331	---	72	---
4322 limestone	56	---	---	56	---
4323 gypsum	331	331	---	---	---
4331 sand & gravel	17	---	---	17	---
Subtotal iron ore and scrap	112	---	112	---	---
4420 iron & steel scrap	112	---	112	---	---
Subtotal non-ferrous ores and scrap	59	59	---	---	---
4650 aluminum ore	59	59	---	---	---
Subtotal sulphur, clay and salt	0	---	0	---	---
4782 clay & refrac. mat.	0	---	0	---	---
Subtotal slag	0	0	---	---	---
4860 slag	0	0	---	---	---
Total primary manufactured goods	169	168	1	---	---
Subtotal paper products	0	---	0	---	---
5190 paper products nec	0	---	0	---	---
Subtotal lime, cement and glass	0	0	0	---	---
5240 glass & glass prod.	0	0	0	---	---
Subtotal primary iron and steel products	166	165	1	---	---
5330 i&s plates & sheets	81	81	---	---	---
5360 i&s bars & shapes	62	62	---	---	---
5370 i&s pipe & tube	22	21	1	---	---
5390 primary i&s nec	0	0	---	---	---
Subtotal primary non-ferrous metal products	3	3	0	---	---
5480 fab. metal products	3	3	0	---	---
Total food and farm products	369	300	68	---	---
Subtotal oilseeds	132	126	6	---	---
6590 oilseeds nec	132	126	6	---	---
Subtotal vegetable products	205	173	32	---	---
6653 vegetable oils	205	173	32	---	---
6654 vegetables & prod.	1	---	1	---	---
Subtotal processed grain and animal feed	3	---	3	---	---
6781 hay & fodder	2	---	2	---	---
6782 animal feed, prep.	0	---	0	---	---
Subtotal other agricultural products	28	1	28	---	---
6838 tallow, animal oils	23	---	23	---	---
6839 animals & prod. nec	0	---	0	---	---
6857 fruit & nuts nec	0	---	0	---	---
6871 coffee	0	---	0	---	---
6885 alcoholic beverages	1	0	1	---	---
6888 water & ice	0	0	---	---	---
6889 food products nec	1	0	1	---	---
6891 tobacco & products	1	0	1	---	---
Total all manufactured equipment, machinery and products	1	1	0	---	---
7110 machinery (not elec)	0	0	0	---	---

RICHMOND HARBOR, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
7120 electrical machinery	0	0	0	—	—
7230 ships & boats	0	0	—	—	—
7400 manufac. wood prod.	0	0	—	—	—
7500 textile products	0	0	0	—	—
7900 manufac. prod. nec	0	0	0	—	—

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	11,092	6,747	2,864	480	581	420
Total petroleum and petroleum products	10,855	6,572	2,814	476	573	419
Subtotal crude petroleum	5,380	5,154	—	206	21	—
2100 crude petroleum	5,380	5,154	—	206	21	—
Subtotal petroleum products	5,474	1,419	2,814	271	552	419
2211 gasoline	2,369	680	1,543	51	73	22
2221 kerosene	42	42	—	—	—	—
2330 distillate fuel oil	1,201	544	455	118	47	37
2340 residual fuel oil	1,453	126	468	102	432	324
2350 lube oil & greases	339	7	296	—	—	36
2429 naphtha & solvents	21	19	2	—	—	—
2430 asphalt, tar & pitch	50	—	50	—	—	—
Total chemicals and related products	234	175	49	2	8	—
Subtotal other chemicals and related products	234	175	49	2	8	—
3211 acyclic hydrocarbons	20	—	20	—	—	—
3212 benzene & toluene	19	—	19	—	—	—
3274 sodium hydroxide	112	112	—	—	—	—
3276 metallic salts	9	—	9	—	—	—
3297 chemical additives	73	63	—	2	8	—
Total crude materials, inedible except fuels	1	—	1	0	—	—
Subtotal forest products, wood and chips	0	—	—	0	—	—
4170 wood in the rough	0	—	—	0	—	—
Subtotal sulphur, clay and salt	1	—	1	—	—	—
4782 clay & refrac. mat.	1	—	1	—	—	—
Total primary manufactured goods	3	—	—	2	—	1
Subtotal lime, cement and glass	3	—	—	2	—	1
5290 misc. mineral prod.	3	—	—	2	—	1

*Includes 649 (x1000) tons of foreign inbound 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
1990	33,982	1993	34,447	1996	28,579	1999	18,612
1991	32,326	1994	32,367	1997	22,480		
1992	36,085	1995	31,265	1998	20,198		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign				Canadian	
		Imports*	Exports	Through		Imports	Through Upbound
				Upbound	Downbnd		
Total, all commodities	8,669	725	206	4,413	2,957	61	306
Total petroleum and petroleum products	4,351	614	189	1,567	1,950	—	32
Subtotal crude petroleum	1,103	485	—	618	—	—	—
2100 crude petroleum	1,103	485	—	618	—	—	—
Subtotal petroleum products	3,248	129	189	948	1,950	—	32
2211 gasoline	354	105	—	225	24	—	—
2221 kerosene	356	—	7	343	—	—	6
2330 distillate fuel oil	388	24	27	185	132	—	20
2340 residual fuel oil	827	—	70	101	649	—	7
2350 lube oil & greases	27	—	12	—	15	—	—
2429 naphtha & solvents	464	—	15	84	364	—	—
2430 asphalt, tar & pitch	46	—	—	9	37	—	—

SAN PABLO BAY AND MARE ISLAND STRAIT, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian	
		Imports*	Exports	Through		Imports	Through Upbound
				Upbound	Downbnd		
2540 petroleum coke	787	—	57	—	730	—	—
Total chemicals and related products	1,376	111	16	911	2	61	273
Subtotal fertilizers	362	—	—	337	—	—	25
3110 nitrogenous fert.	359	—	—	334	—	—	25
3130 potassic fert.	3	—	—	3	—	—	—
3190 fert. & mixes nec	0	—	—	0	—	—	—
Subtotal other chemicals and related products	1,014	111	16	574	2	61	249
3211 acyclic hydrocarbons	11	—	11	—	—	—	—
3220 alcohols	6	—	—	—	—	—	6
3230 carboxylic acids	0	—	—	—	0	—	—
3250 organo - inorg. comp.	0	0	—	—	—	—	—
3260 organic comp. nec	713	104	—	515	—	61	32
3273 ammonia	241	—	—	50	0	—	191
3274 sodium hydroxide	27	7	—	—	—	—	20
3275 inorg. elem., oxides, & halogen salts	1	—	—	1	0	—	—
3276 metallic salts	8	—	—	8	1	—	—
3282 pigments & paints	0	—	0	—	—	—	—
3283 coloring mat. nec	0	0	—	—	—	—	—
3286 plastics	0	—	0	—	0	—	—
3292 starches, gluten, glue	0	—	—	0	—	—	—
3293 explosives	0	—	—	—	0	—	—
3297 chemical additives	2	—	1	—	1	—	—
3299 chem. products nec	5	—	5	—	—	—	—
Total crude materials, inedible except fuels	610	0	—	145	465	—	—
Subtotal forest products, wood and chips	226	0	—	—	226	—	—
4161 wood chips	220	—	—	—	220	—	—
4170 wood in the rough	6	—	—	—	6	—	—
4190 forest products nec	0	0	—	—	—	—	—
Subtotal pulp and waste paper	1	—	—	—	1	—	—
4225 pulp & waste paper	1	—	—	—	1	—	—
Subtotal soil, sand, gravel, rock and stone	145	—	—	145	—	—	—
4323 gypsum	145	—	—	145	—	—	—
Subtotal iron ore and scrap	28	—	—	—	28	—	—
4420 iron & steel scrap	28	—	—	—	28	—	—
Subtotal non-ferrous ores and scrap	0	—	—	—	0	—	—
4680 non-ferrous scrap	0	—	—	—	0	—	—
Subtotal sulphur, clay and salt	209	—	—	—	209	—	—
4741 sulphur, (dry)	209	—	—	—	209	—	—
Subtotal other non-metal. min.	1	—	—	0	0	—	—
4900 non-metal. min. nec	1	—	—	0	0	—	—
Total primary manufactured goods	1,242	0	0	1,242	0	—	—
Subtotal paper products	0	—	0	—	—	—	—
5120 paper & paperboard	0	—	0	—	—	—	—
Subtotal lime, cement and glass	438	0	0	438	0	—	—
5220 cement & concrete	438	—	—	438	—	—	—
5240 glass & glass prod.	0	—	—	—	0	—	—
5290 misc. mineral prod.	0	0	0	—	—	—	—
Subtotal primary iron and steel products	802	0	—	802	—	—	—
5330 i&s plates & sheets	773	—	—	773	—	—	—
5360 i&s bars & shapes	16	0	—	16	—	—	—
5370 i&s pipe & tube	13	0	—	13	—	—	—
Subtotal primary non-ferrous metal products	0	0	0	—	0	—	—
5480 fab. metal products	0	0	0	—	0	—	—
Subtotal primary wood products	1	—	0	1	—	—	—
5540 primary wood prod.	1	—	0	1	—	—	—
Total food and farm products	1,065	0	0	548	517	—	—
Subtotal fish	0	—	—	—	0	—	—
6134 fish (not shellfish)	0	—	—	—	0	—	—
Subtotal grain	484	—	—	4	481	—	—
6241 wheat	26	—	—	—	26	—	—
6344 corn	3	—	—	—	3	—	—
6442 rice	456	—	—	4	452	—	—
Subtotal oilseeds	60	—	—	28	31	—	—
6590 oilseeds nec	60	—	—	28	31	—	—
Subtotal vegetable products	3	—	—	1	1	—	—
6653 vegetable oils	2	—	—	1	1	—	—
6654 vegetables & prod.	0	—	—	—	0	—	—
Subtotal processed grain and animal feed	8	—	—	5	3	—	—
6781 hay & fodder	2	—	—	—	2	—	—
6782 animal feed, prep.	5	—	—	5	0	—	—
Subtotal other agricultural products	511	0	0	510	1	—	—
6811 meat, fresh, frozen	0	—	—	—	0	—	—
6817 meat, prepared	0	—	—	—	0	—	—
6822 dairy products	0	—	—	—	0	—	—
6839 animals & prod. nec	0	0	—	—	0	—	—

SAN PABLO BAY AND MARE ISLAND STRAIT, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian	
		Imports*	Exports	Through		Imports	Through Upbound
				Upbound	Downbnd		
6857 fruit & nuts nec	0	—	—	—	0	—	—
6858 fruit juices	0	—	—	—	0	—	—
6861 sugar	411	—	—	411	—	—	—
6865 molasses	99	—	—	99	—	—	—
6885 alcoholic beverages	0	—	—	—	0	—	—
6889 food products nec	0	—	0	—	0	—	—
6899 farm products nec	0	—	—	—	0	—	—
Total all manufactured equipment, machinery and products	24	0	0	0	23	—	—
7110 machinery (not elec)	0	0	—	—	0	—	—
7120 electrical machinery	0	—	—	—	0	—	—
7210 vehicles & parts	21	—	—	0	21	—	—
7230 ships & boats	0	—	—	—	0	—	—
7300 ordnance & access.	2	—	—	—	2	—	—
7400 manufac. wood prod.	0	—	—	0	—	—	—
7500 textile products	0	0	0	—	0	—	—
7600 rubber & plastic pr.	0	0	0	—	0	—	—
7900 manufac. prod. nec	0	0	0	0	0	—	—
Total unknown or not elsewhere classified	0	—	—	—	0	—	—
9900 unknown or nec	0	—	—	—	0	—	—
Ton-miles (x1000) Foreign & Canadian	86,688	7,255	2,058	44,131	29,572	615	3,057

Commodity	Total	Coastwise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Total, all commodities	5,950	71	150	4,859	871
Total petroleum and petroleum products	5,378	57	150	4,318	854
Subtotal crude petroleum	3,105	—	—	3,085	20
2100 crude petroleum	3,105	—	—	3,085	20
Subtotal petroleum products	2,273	57	150	1,233	834
2211 gasoline	939	46	—	636	258
2330 distillate fuel oil	700	—	62	371	267
2340 residual fuel oil	534	6	88	218	222
2350 lube oil & greases	96	4	—	4	87
2430 asphalt, tar & pitch	4	—	—	4	—
Total chemicals and related products	226	14	—	198	14
Subtotal fertilizers	52	5	—	47	—
3110 nitrogenous fert.	52	5	—	47	—
Subtotal other chemicals and related products	174	9	—	151	14
3220 alcohols	2	—	—	—	2
3272 sulphuric acid	0	—	—	—	0
3273 ammonia	55	—	—	55	—
3274 sodium hydroxide	17	5	—	6	6
3275 inorg. elem.oxides, & halogen salts	40	—	—	40	—
3297 chemical additives	60	5	—	49	6
Total crude materials, inedible except fuels	3	—	—	—	3
Subtotal forest products, wood and chips	3	—	—	—	3
4161 wood chips	3	—	—	—	3
Total food and farm products	340	—	—	340	—
Subtotal other agricultural products	340	—	—	340	—
6861 sugar	339	—	—	339	—
6865 molasses	1	—	—	1	—
Total all manufactured equipment, machinery and products	3	—	—	3	—
7800 empty containers	3	—	—	3	—
Ton-miles (x1000) Coastwise	58,988	526	1,169	48,586	8,708

Commodity	Total	Internal					
		Inbound		Outbound		Through	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	3,993	48	171	352	111	2,696	614
Total petroleum and petroleum products	3,490	45	171	352	110	2,518	293
Subtotal crude petroleum	2,313	43	12	—	—	2,249	10
2100 crude petroleum	2,313	43	12	—	—	2,249	10

SAN PABLO BAY AND MARE ISLAND STRAIT, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Internal					
		Inbound		Outbound		Through	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Subtotal petroleum products	1,177	2	159	352	110	270	283
2211 gasoline	195	—	71	—	—	73	51
2330 distillate fuel oil	362	2	8	170	43	47	91
2340 residual fuel oil	619	—	79	182	67	150	141
Total chemicals and related products	10	2	—	—	—	5	2
Subtotal other chemicals and related products	10	2	—	—	—	5	2
3297 chemical additives	10	2	—	—	—	5	2
Total crude materials, inedible except fuels	374	0	0	0	0	79	294
Subtotal forest products, wood and chips	6	0	0	0	0	2	3
4170 wood in the rough	6	0	0	0	0	2	3
Subtotal soil, sand, gravel, rock and stone	338	—	—	—	—	47	291
4331 sand & gravel	338	—	—	—	—	47	291
Subtotal marine shells	30	—	—	—	—	30	—
4515 marine shells	30	—	—	—	—	30	—
Total primary manufactured goods	26	—	—	—	—	—	26
Subtotal lime, cement and glass	26	—	—	—	—	—	26
5290 misc. mineral prod.	26	—	—	—	—	—	26
Total food and farm products	93	—	—	—	—	93	—
Subtotal other agricultural products	93	—	—	—	—	93	—
6865 molasses	93	—	—	—	—	93	—
Ton-miles (x1000)	33,387	341	341	949	798	26,885	4,073
Internal							
Tons All Traffic (x1000)	18,612						
Ton-miles All Traffic (x1000)	179,063						

*Includes 142 (x1000) tons of foreign inbound in-transits.

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
1990	26,565	1993	26,046	1996	24,841	1999	17,388
1991	25,700	1994	26,118	1997	20,421		
1992	27,656	1995	26,931	1998	19,539		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign				Canadian	
		Imports*	Exports*	Through		Imports	Through Upbound
				Upbound	Downbnd		
Total, all commodities	7,676	2,109	1,283	2,304	1,674	70	236
Total petroleum and petroleum products	3,549	1,163	1,132	403	818	32	—
Subtotal crude petroleum	618	618	—	—	—	—	—
2100 crude petroleum	618	618	—	—	—	—	—
Subtotal petroleum products	2,930	545	1,132	403	818	32	—
2211 gasoline	248	29	—	195	24	—	—
2221 kerosene	349	274	—	70	—	6	—
2330 distillate fuel oil	337	47	132	139	—	20	—
2340 residual fuel oil	757	101	591	—	58	7	—
2350 lube oil & greases	15	—	15	—	—	—	—
2429 naphtha & solvents	448	84	277	—	87	—	—
2430 asphalt, tar & pitch	46	9	37	—	—	—	—
2540 petroleum coke	730	—	81	—	649	—	—
Total chemicals and related products	1,187	495	1	416	1	37	236
Subtotal fertilizers	362	—	—	337	—	—	25
3110 nitrogenous fert.	359	—	—	334	—	—	25
3130 potassic fert.	3	—	—	3	—	—	—
3190 fert. & mixes nec	0	—	—	0	—	—	—
Subtotal other chemicals and related products	825	495	1	79	1	37	211
3220 alcohols	6	—	—	—	—	6	—
3230 carboxylic acids	0	—	—	—	0	—	—
3260 organic comp. nec	547	495	—	20	—	32	—
3273 ammonia	241	—	0	50	—	—	191
3274 sodium hydroxide	20	—	—	—	—	—	20

CARQUINEZ STRAIT, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian	
		Imports*	Exports*	Through		Imports	Through Upbound
				Upbound	Downbnd		
3275 inorg. elem., oxides, & halogen salts	1	—	0	1	0	—	—
3276 metallic salts	8	—	0	8	1	—	—
3286 plastics	0	—	—	—	0	—	—
3292 starches, gluten, glue	0	—	—	0	—	—	—
3293 explosives	0	—	0	—	0	—	—
3297 chemical additives	1	—	1	—	—	—	—
Total crude materials, inedible except fuels	610	—	48	145	417	—	—
Subtotal forest products, wood and chips	226	—	19	—	207	—	—
4161 wood chips	220	—	19	—	202	—	—
4170 wood in the rough	6	—	—	—	6	—	—
Subtotal pulp and waste paper	1	—	1	—	0	—	—
4225 pulp & waste paper	1	—	1	—	0	—	—
Subtotal soil, sand, gravel, rock and stone	145	—	—	145	—	—	—
4323 gypsum	145	—	—	145	—	—	—
Subtotal iron ore and scrap	28	—	28	—	—	—	—
4420 iron & steel scrap	28	—	28	—	—	—	—
Subtotal non-ferrous ores and scrap	0	—	0	—	0	—	—
4680 non-ferrous scrap	0	—	0	—	0	—	—
Subtotal sulphur, clay and salt	209	—	—	—	209	—	—
4741 sulphur, (dry)	209	—	—	—	209	—	—
Subtotal other non-metal. min.	1	—	0	0	—	—	—
4900 non-metal. min. nec	1	—	0	0	—	—	—
Total primary manufactured goods	1,242	40	0	1,201	0	—	—
Subtotal lime, cement and glass	438	40	—	398	0	—	—
5220 cement & concrete	438	40	—	398	—	—	—
5240 glass & glass prod.	0	—	—	—	0	—	—
Subtotal primary iron and steel products	802	—	—	802	—	—	—
5330 i&s plates & sheets	773	—	—	773	—	—	—
5360 i&s bars & shapes	16	—	—	16	—	—	—
5370 i&s pipe & tube	13	—	—	13	—	—	—
Subtotal primary non-ferrous metal products	0	—	0	—	—	—	—
5480 fab. metal products	0	—	0	—	—	—	—
Subtotal primary wood products	1	—	—	1	—	—	—
5540 primary wood prod.	1	—	—	1	—	—	—
Total food and farm products	1,065	411	79	138	438	—	—
Subtotal fish	0	—	0	—	0	—	—
6134 fish (not shellfish)	0	—	0	—	0	—	—
Subtotal grain	484	—	70	4	410	—	—
6241 wheat	26	—	—	—	26	—	—
6344 corn	3	—	—	—	3	—	—
6442 rice	456	—	70	4	382	—	—
Subtotal oilseeds	60	—	6	28	26	—	—
6590 oilseeds nec	60	—	6	28	26	—	—
Subtotal vegetable products	3	—	1	1	0	—	—
6653 vegetable oils	2	—	1	1	—	—	—
6654 vegetables & prod.	0	—	0	—	0	—	—
Subtotal processed grain and animal feed	8	—	1	5	1	—	—
6781 hay & fodder	2	—	1	—	1	—	—
6782 animal feed, prep.	5	—	—	5	0	—	—
Subtotal other agricultural products	511	411	0	99	1	—	—
6811 meat, fresh, frozen	0	—	—	—	0	—	—
6817 meat, prepared	0	—	—	—	0	—	—
6822 dairy products	0	—	0	—	—	—	—
6839 animals & prod. nec	0	—	0	—	—	—	—
6857 fruit & nuts nec	0	—	0	—	0	—	—
6858 fruit juices	0	—	0	—	—	—	—
6861 sugar	411	411	—	—	—	—	—
6865 molasses	99	—	—	99	—	—	—
6885 alcoholic beverages	0	—	0	—	0	—	—
6889 food products nec	0	—	0	—	—	—	—
6899 farm products nec	0	—	—	—	0	—	—
Total all manufactured equipment, machinery and products	23	0	23	0	1	—	—
7110 machinery (not elec)	0	—	0	—	0	—	—
7120 electrical machinery	0	—	0	—	0	—	—
7210 vehicles & parts	21	0	21	—	1	—	—
7230 ships & boats	0	—	—	—	0	—	—
7300 ordnance & access.	2	—	2	—	0	—	—
7400 manufac. wood prod.	0	—	—	0	—	—	—
7500 textile products	0	—	0	—	—	—	—
7600 rubber & plastic pr.	0	—	—	—	0	—	—
7900 manufac. prod. nec	0	—	0	0	—	—	—

CARQUINEZ STRAIT, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian	
		Imports*	Exports*	Through		Imports	Through Upbound
				Upbound	Downbnd		
Total unknown or not elsewhere classified	0	---	0	---	0	---	---
9900 unknown or nec	0	---	0	---	0	---	---
Ton-miles (x1000) Foreign & Canadian	53,732	14,766	8,984	16,125	11,717	488	1,652

Commodity	Total	Coastwise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Total, all commodities	5,729	4,659	661	199	209
Total petroleum and petroleum products	5,171	4,232	653	86	200
Subtotal crude petroleum	3,105	3,085	20	---	---
2100 crude petroleum	3,105	3,085	20	---	---
Subtotal petroleum products	2,067	1,147	633	86	200
2211 gasoline	893	615	187	21	71
2330 distillate fuel oil	638	306	217	65	50
2340 residual fuel oil	440	218	142	---	80
2350 lube oil & greases	91	4	87	---	---
2430 asphalt, tar & pitch	4	4	---	---	---
Total chemicals and related products	212	89	8	109	6
Subtotal fertilizers	47	---	---	47	---
3110 nitrogenous fert.	47	---	---	47	---
Subtotal other chemicals and related products	165	89	8	62	6
3220 alcohols	2	---	2	---	---
3272 sulphuric acid	0	---	---	---	0
3273 ammonia	55	---	---	55	---
3274 sodium hydroxide	12	---	---	6	6
3275 inorg. elem., oxides, & halogen salts	40	40	---	---	---
3297 chemical additives	55	49	6	---	---
Total crude materials, inedible except fuels	3	---	---	---	3
Subtotal forest products, wood and chips	3	---	---	---	3
4161 wood chips	3	---	---	---	3
Total food and farm products	340	339	---	1	---
Subtotal other agricultural products	340	339	---	1	---
6861 sugar	339	339	---	---	---
6865 molasses	1	---	---	1	---
Total all manufactured equipment, machinery and products	3	---	---	3	---
7800 empty containers	3	---	---	3	---
Ton-miles (x1000) Coastwise	34,213	27,968	3,385	1,394	1,466

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	3,982	2,576	158	4	219	407	538	10	72
Total petroleum and petroleum products	3,459	2,567	42	4	217	303	247	8	72
Subtotal crude petroleum	2,288	2,249	---	---	22	---	---	8	10
2100 crude petroleum	2,288	2,249	---	---	22	---	---	8	10
Subtotal petroleum products	1,171	318	42	4	196	303	247	---	62
2211 gasoline	246	50	---	---	22	23	100	---	50
2330 distillate fuel oil	317	70	---	---	91	148	8	---	---
2340 residual fuel oil	609	199	42	4	82	133	139	---	12
Total chemicals and related products	9	5	---	---	2	---	---	2	---
Subtotal other chemicals and related products	9	5	---	---	2	---	---	2	---

CARQUINEZ STRAIT, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
3297 chemical additives	9	5	—	—	2	—	—	2	—
Total crude materials, inedible except fuels	420	3	116	—	—	10	291	—	—
Subtotal soil, sand, gravel, rock and stone	410	3	116	—	—	—	291	—	—
4331 sand & gravel	410	3	116	—	—	—	291	—	—
Subtotal marine shells	10	—	—	—	—	10	—	—	—
4515 marine shells	10	—	—	—	—	10	—	—	—
Total food and farm products	93	—	—	—	—	93	—	—	—
Subtotal other agricultural products	93	—	—	—	—	93	—	—	—
6865 molasses	93	—	—	—	—	93	—	—	—
Ton-miles Internal (x1000)	24,700	16,426	232	21	970	2,850	3,764	58	380

Tons All Traffic (x1000) 17,388
Ton-miles All Traffic (x1000) 112,645

*Includes 26 (x1000) tons of foreign inbound in-transits; Includes 0 (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
1990	8,156	1993	7,133	1996	7,407	1999	5,728
1991	7,289	1994	7,556	1997	6,752		
1992	6,340	1995	7,012	1998	6,644		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign				Canadian
		Imports	Exports	Through		Through
				Upbound	Downbnd	Upbound
Total, all commodities	4,213	397	89	1,907	1,585	236
Total petroleum and petroleum products	1,221	376	88	27	730	—
Subtotal petroleum products	1,221	376	88	27	730	—
2211 gasoline	219	183	24	12	—	—
2221 kerosene	70	70	—	—	—	—
2330 distillate fuel oil	139	123	—	15	—	—
2340 residual fuel oil	58	—	26	—	32	—
2429 naphtha & solvents	87	—	38	—	49	—
2540 petroleum coke	649	—	—	—	649	—
Total chemicals and related products	653	20	—	396	1	236
Subtotal fertilizers	362	—	—	337	—	25
3110 nitrogenous fert.	359	—	—	334	—	25
3130 potassic fert.	3	—	—	3	—	—
3190 fert. & mixes nec	0	—	—	0	—	—
Subtotal other chemicals and related products	291	20	—	59	1	211
3230 carboxylic acids	0	—	—	—	0	—
3260 organic comp. nec	20	20	—	—	—	—
3273 ammonia	241	—	—	50	—	191
3274 sodium hydroxide	20	—	—	—	—	20
3275 inorg. elem.oxides, & halogen salts	1	—	—	1	0	—
3276 metallic salts	8	—	—	8	1	—
3286 plastics	0	—	—	—	0	—
3292 starches, gluten, glue	0	—	—	0	—	—
3293 explosives	0	—	—	—	0	—
Total crude materials, inedible except fuels	562	—	—	145	417	—
Subtotal forest products, wood and chips	207	—	—	—	207	—
4161 wood chips	202	—	—	—	202	—
4170 wood in the rough	6	—	—	—	6	—

SUISUN BAY CHANNEL, CA
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Total	Foreign				Canadian
		Imports	Exports	Through		Through
				Upbound	Downbnd	Upbound
Subtotal pulp and waste paper	0	---	---	---	0	---
4225 pulp & waste paper	0	---	---	---	0	---
Subtotal soil, sand, gravel, rock and stone	145	---	---	145	---	---
4323 gypsum	145	---	---	145	---	---
Subtotal non-ferrous ores and scrap	0	---	---	---	0	---
4680 non-ferrous scrap	0	---	---	---	0	---
Subtotal sulphur, clay and salt	209	---	---	---	209	---
4741 sulphur, (dry)	209	---	---	---	209	---
Subtotal other non-metal. min.	0	---	---	0	---	---
4900 non-metal. min. nec	0	---	---	0	---	---
Total primary manufactured goods	1,201	---	---	1,201	0	---
Subtotal lime, cement and glass	398	---	---	398	0	---
5220 cement & concrete	398	---	---	398	---	---
5240 glass & glass prod.	0	---	---	---	0	---
Subtotal primary iron and steel products	802	---	---	802	---	---
5330 i&s plates & sheets	773	---	---	773	---	---
5360 i&s bars & shapes	16	---	---	16	---	---
5370 i&s pipe & tube	13	---	---	13	---	---
Subtotal primary wood products	1	---	---	1	---	---
5540 primary wood prod.	1	---	---	1	---	---
Total food and farm products	576	---	1	138	437	---
Subtotal fish	0	---	---	---	0	---
6134 fish (not shellfish)	0	---	---	---	0	---
Subtotal grain	414	---	---	4	410	---
6241 wheat	26	---	---	---	26	---
6344 corn	3	---	---	---	3	---
6442 rice	385	---	---	4	382	---
Subtotal oilseeds	54	---	---	28	26	---
6590 oilseeds nec	54	---	---	28	26	---
Subtotal vegetable products	1	---	---	1	0	---
6653 vegetable oils	1	---	---	1	---	---
6654 vegetables & prod.	0	---	---	---	0	---
Subtotal processed grain and animal feed	7	---	1	5	0	---
6781 hay & fodder	1	---	1	---	---	---
6782 animal feed, prep.	5	---	---	5	0	---
Subtotal other agricultural products	100	---	---	99	1	---
6811 meat, fresh, frozen	0	---	---	---	0	---
6817 meat, prepared	0	---	---	---	0	---
6857 fruit & nuts nec	0	---	---	---	0	---
6865 molasses	99	---	---	99	---	---
6885 alcoholic beverages	0	---	---	---	0	---
6899 farm products nec	0	---	---	---	0	---
Total all manufactured equipment, machinery and products	1	---	0	0	1	---
7110 machinery (not elec)	0	---	---	---	0	---
7120 electrical machinery	0	---	---	---	0	---
7210 vehicles & parts	1	---	---	---	1	---
7230 ships & boats	0	---	---	---	0	---
7300 ordnance & access.	0	---	0	---	0	---
7400 manufac. wood prod.	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	---
Ton-miles (x1000)	56,891	793	178	28,605	23,775	3,539
Foreign & Canadian						

Commodity	Total	Domestic						
		Coastwise		Through		Internal		
		Receipts	Shipments	Upbound	Downbnd	Inbound Upbound	Outbound Downbnd	Through Upbound
Total, all commodities	1,515	63	200	136	9	307	695	104
Total petroleum and petroleum products	882	63	200	23	---	307	288	---
Subtotal petroleum products	882	63	200	23	---	307	288	---
2211 gasoline	215	15	71	6	---	23	100	---
2330 distillate fuel oil	271	48	50	17	---	148	8	---
2340 residual fuel oil	396	---	80	---	---	136	180	---
Total chemicals and related products	115	---	---	109	6	---	---	---
Subtotal fertilizers	47	---	---	47	---	---	---	---
3110 nitrogenous fert.	47	---	---	47	---	---	---	---

SUISUN BAY CHANNEL, CA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic						
		Coastwise				Internal		
		Receipts	Shipments	Through Upbound	Through Downbnd	Inbound Upbound	Outbound Downbnd	Through Upbound
Subtotal other chemicals and related products	68	---	---	62	6	---	---	---
3272 sulphuric acid	0	---	---	---	0	---	---	---
3273 ammonia	55	---	---	55	---	---	---	---
3274 sodium hydroxide	12	---	---	6	6	---	---	---
Total crude materials, inedible except fuels	420	---	---	---	3	---	407	10
Subtotal forest products, wood and chips	3	---	---	---	3	---	---	---
4161 wood chips	3	---	---	---	3	---	---	---
Subtotal soil, sand, gravel, rock and stone	407	---	---	---	---	---	407	---
4331 sand & gravel	407	---	---	---	---	---	407	---
Subtotal marine shells	10	---	---	---	---	---	---	10
4515 marine shells	10	---	---	---	---	---	---	10
Total food and farm products	94	---	---	1	---	---	---	93
Subtotal other agricultural products	94	---	---	1	---	---	---	93
6865 molasses	94	---	---	1	---	---	---	93
Total all manufactured equipment, machinery and products	3	---	---	3	---	---	---	---
7800 empty containers	3	---	---	3	---	---	---	---
Ton-miles (x1000) Domestic	8,692	111	401	2,040	137	614	3,832	1,558
Tons All Traffic (x1000)		5,728						
Ton-miles All Traffic (x1000)		65,583						

PETALUMA RIVER, CA

Section Included: From across the flats in San Pablo Bay to the mouth of the Petaluma River a distance of 5.3 miles with a controlling depth of 7.0 feet. from the mouth of the river to Western Ave. a distance of 13 miles with a controlling depth of 8.0 feet and 270 feet above Western Ave. A controlling depth of 4.0 feet. Project Depth is 8.0 feet, except for 200 feet above Western Ave. which is 4.0 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	287	1993	208	1996	208	1999	326
1991	239	1994	232	1997	216		
1992	315	1995	196	1998	280		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Internal	
		Inbound Upbound	Outbound Downbnd
Total, all commodities	326	301	26
Total crude materials, inedible except fuels	301	301	---
Subtotal soil, sand, gravel, rock and stone	281	281	---
4331 sand & gravel	281	281	---
Subtotal marine shells	19	19	---
4515 marine shells	19	19	---
Total primary manufactured goods	26	---	26
Subtotal lime, cement and glass	26	---	26
5290 misc. mineral prod.	26	---	26
Ton-miles (x1000)	2,719	2,435	283
Tons All Traffic (x1000)		326	
Ton-miles All Traffic (x1000)		2,719	

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
1990	1,600	1993	994	1996	1,197	1999	1,302
1991	2,301	1994	1,407	1997	1,175		
1992	1,311	1995	1,220	1998	1,072		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports*	Exports*	Imports	Exports	Total	Coastwise	
							Receipts	Shipments
Total, all commodities	1,301	52	550	49	1	649	520	129
Total petroleum and petroleum products	310	---	---	---	1	309	309	---
Subtotal petroleum products	310	---	---	---	1	309	309	---
2211 gasoline	309	---	---	---	---	309	309	---
2221 kerosene	1	---	---	---	1	---	---	---
Total chemicals and related products	10	4	0	---	---	6	6	---
Subtotal fertilizers	3	3	---	---	---	---	---	---
3110 nitrogenous fert.	3	3	---	---	---	---	---	---
Subtotal other chemicals and related products	6	0	0	---	---	6	6	---
3240 nitrogen func. comp.	0	0	0	---	---	---	---	---
3260 organic comp. nec	0	---	0	---	---	---	---	---
3274 sodium hydroxide	6	---	---	---	---	6	6	---
3276 metallic salts	0	0	0	---	---	---	---	---
3282 pigments & paints	0	---	0	---	---	---	---	---
3286 plastics	0	0	0	---	---	---	---	---
3299 chem. products nec	0	---	0	---	---	---	---	---
Total crude materials, inedible except fuels	965	36	546	49	0	334	205	129
Subtotal forest products, wood and chips	740	36	321	49	---	334	205	129
4161 wood chips	675	---	321	20	---	334	205	129
4170 wood in the rough	57	29	---	28	---	---	---	---
4189 lumber	7	7	0	---	---	---	---	---
Subtotal pulp and waste paper	225	0	225	---	0	---	---	---
4225 pulp & waste paper	225	0	225	---	0	---	---	---
Subtotal soil, sand, gravel, rock and stone	0	---	0	---	---	---	---	---
4331 sand & gravel	0	---	0	---	---	---	---	---
Subtotal non-ferrous ores and scrap	0	---	0	---	---	---	---	---
4650 aluminum ore	0	---	0	---	---	---	---	---
Subtotal other non-metal. min.	0	0	0	---	---	---	---	---
4900 non-metal. min. nec	0	0	0	---	---	---	---	---
Total primary manufactured goods	12	12	0	---	---	---	---	---
Subtotal paper products	0	0	---	---	---	---	---	---
5120 paper & paperboard	0	0	---	---	---	---	---	---
5190 paper products nec	0	0	---	---	---	---	---	---
Subtotal lime, cement and glass	1	1	---	---	---	---	---	---
5240 glass & glass prod.	1	1	---	---	---	---	---	---
Subtotal primary iron and steel products	11	11	---	---	---	---	---	---
5330 i&s plates & sheets	10	10	---	---	---	---	---	---
5360 i&s bars & shapes	1	1	---	---	---	---	---	---
5370 i&s pipe & tube	0	0	---	---	---	---	---	---
5390 primary i&s nec	0	0	---	---	---	---	---	---
Subtotal primary non-ferrous metal products	0	---	0	---	---	---	---	---
5480 fab. metal products	0	---	0	---	---	---	---	---
Total food and farm products	4	1	3	0	---	---	---	---
Subtotal fish	0	0	---	0	---	---	---	---
6134 fish (not shellfish)	0	0	---	0	---	---	---	---
Subtotal grain	0	0	0	---	---	---	---	---
6442 rice	0	0	0	---	---	---	---	---

HUMBOLDT HARBOR AND BAY, CA
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports*	Exports*	Imports	Exports	Total	Coastwise	
							Receipts	Shipments
Subtotal vegetable products	0	---	0	---	---	---	---	---
6654 vegetables & prod.	0	---	0	---	---	---	---	---
Subtotal processed grain and animal feed	0	0	---	---	---	---	---	---
6782 animal feed, prep.	0	0	---	---	---	---	---	---
Subtotal other agricultural products	3	0	3	---	---	---	---	---
6835 fish, prepared	0	0	---	---	---	---	---	---
6839 animals & prod. nec	0	---	0	---	---	---	---	---
6857 fruit & nuts nec	1	---	1	---	---	---	---	---
6858 fruit juices	0	---	0	---	---	---	---	---
6885 alcoholic beverages	2	0	2	---	---	---	---	---
6888 water & ice	0	0	---	---	---	---	---	---
6889 food products nec	0	0	0	---	---	---	---	---
6893 cotton	0	---	0	---	---	---	---	---
Total all manufactured equipment, machinery and products	1	0	0	---	---	0	0	0
7110 machinery (not elec)	0	0	---	---	---	0	0	0
7120 electrical machinery	0	0	0	---	---	---	---	---
7210 vehicles & parts	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	---	---	---	---	---	---
9900 unknown or nec	0	0	---	---	---	---	---	---

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

Other Harbors and Waterways 1999

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	6857 fruit & nuts nec	0
	7210 vehicles & parts	0
	7900 manufac. prod. nec	0
	Total Tons(x1000)	0
MOSS LANDING HARBOR, CA	No Commerce Reported	
NAPA RIVER, CA	4170 wood in the rough	6
	4331 sand & gravel	44
	Total Tons(x1000)	49
	Total Ton-miles(x1000)	215
NOYO RIVER, CA	No Commerce Reported	
PILLAR POINT HARBOR, CA	No Commerce Reported	
SAN RAFAEL CREEK, CA	4170 wood in the rough	0
	Total Tons(x1000)	0
	Total Ton-miles(x1000)	0
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	4,954
	2211 gasoline	15
	2330 distillate fuel oil	2
	2340 residual fuel oil	133
	4170 wood in the rough	6
	4331 sand & gravel	1,470
	4515 marine shells	30
	Total Tons(x1000)	6,610

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
1990	1,690	1993	1,469	1996	1,442	1999	1,701
1991	1,556	1994	1,455	1997	1,489		
1992	1,588	1995	1,354	1998	1,630		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign Imports	Domestic		
			Total	Coastwise	
				Receipts	Shipments
Total, all commodities	1,701	78	1,624	1,183	440
Total coal	67	67	—	—	—
1100 coal lignite	67	67	—	—	—
Total petroleum and petroleum products	389	5	384	384	—
Subtotal petroleum products	389	5	384	384	—
2211 gasoline	109	—	109	109	—
2330 distillate fuel oil	99	—	99	99	—
2340 residual fuel oil	158	—	158	158	—
2350 lube oil & greases	0	—	0	0	—
2640 liquid natural gas	21	5	16	16	—
2990 petro. products nec	1	—	1	1	—
Total chemicals and related products	31	—	31	21	10
Subtotal fertilizers	28	—	28	18	10
3190 fert. & mixes nec	28	—	28	18	10
Subtotal other chemicals and related products	3	—	3	3	0
3281 radioactive material	0	—	0	—	0
3282 pigments & paints	1	—	1	1	—
3284 medicines	0	—	0	0	—
3285 perfumes & cleansers	1	—	1	1	—
3286 plastics	0	—	0	0	—
3291 pesticides	0	—	0	0	—
3293 explosives	0	—	0	0	—
Total crude materials, inedible except fuels	57	5	52	47	5
Subtotal forest products, wood and chips	40	—	40	37	3
4189 lumber	39	—	39	36	3
4190 forest products nec	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	7	5	2	2	—
4331 sand & gravel	5	5	—	—	—
4338 soil & fill dirt	2	—	2	2	—
Subtotal iron ore and scrap	10	—	10	9	1
4420 iron & steel scrap	10	—	10	9	1
Subtotal other non-metal. min.	0	—	0	0	—
4900 non-metal. min. nec	0	—	0	0	—
Total primary manufactured goods	753	—	753	443	310
Subtotal paper products	16	—	16	16	0
5110 newsprint	0	—	0	0	—
5120 paper & paperboard	1	—	1	1	—
5190 paper products nec	16	—	16	15	0
Subtotal lime, cement and glass	22	—	22	22	0
5220 cement & concrete	17	—	17	17	0
5240 glass & glass prod.	0	—	0	0	—
5290 misc. mineral prod.	4	—	4	4	—
Subtotal primary iron and steel products	3	—	3	3	0
5360 i&s bars & shapes	1	—	1	1	0
5370 i&s pipe & tube	2	—	2	2	0
Subtotal primary non-ferrous metal products	707	—	707	398	309
5480 fab. metal products	707	—	707	398	309
Subtotal primary wood products	5	—	5	5	—
5540 primary wood prod.	5	—	5	5	—
Total food and farm products	152	—	152	104	48
Subtotal fish	0	—	0	0	—
6134 fish (not shellfish)	0	—	0	0	—
Subtotal grain	4	—	4	4	—
6442 rice	4	—	4	4	—
Subtotal vegetable products	15	—	15	6	9
6654 vegetables & prod.	15	—	15	6	9
Subtotal processed grain and animal feed	8	—	8	8	0
6746 wheat flour	1	—	1	1	—
6747 grain mill products	0	—	0	0	—
6781 hay & fodder	0	—	0	0	—
6782 animal feed, prep.	7	—	7	7	0
Subtotal other agricultural products	125	—	125	86	39
6811 meat, fresh, frozen	8	—	8	8	0
6822 dairy products	2	—	2	2	—
6839 animals & prod. nec	6	—	6	1	5
6857 fruit & nuts nec	1	—	1	1	0

HILO HARBOR, HI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign Imports	Domestic		
			Total	Coastwise	
				Receipts	Shipments
6858 fruit juices	0	—	0	0	0
6861 sugar	0	—	0	0	—
6865 molasses	1	—	1	—	1
6871 coffee	0	—	0	0	0
6885 alcoholic beverages	9	—	9	9	—
6887 groceries	8	—	8	8	0
6889 food products nec	83	—	83	57	26
6891 tobacco & products	0	—	0	0	—
6899 farm products nec	8	—	8	0	8
Total all manufactured equipment, machinery and products	252	—	252	185	67
7110 machinery (not elec)	9	—	9	3	5
7120 electrical machinery	1	—	1	0	0
7210 vehicles & parts	113	—	113	84	28
7230 ships & boats	0	—	0	0	0
7400 manufac. wood prod.	2	—	2	1	0
7500 textile products	0	—	0	0	—
7600 rubber & plastic pr.	1	—	1	0	0
7900 manufac. prod. nec	127	—	127	94	33
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
1990	887	1993	655	1996	969	1999	1,090
1991	745	1994	736	1997	980		
1992	790	1995	873	1998	886		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Coastwise	
		Receipts	Shipments
Total, all commodities	1,090	662	428
Total petroleum and petroleum products	20	20	—
Subtotal petroleum products	20	20	—
2211 gasoline	16	16	—
2330 distillate fuel oil	3	3	—
2990 petro. products nec	0	0	—
Total chemicals and related products	5	4	1
Subtotal fertilizers	4	3	1
3190 fert. & mixes nec	4	3	1
Subtotal other chemicals and related products	1	1	—
3282 pigments & paints	0	0	—
3284 medicines	0	0	—
3285 perfumes & cleansers	0	0	—
3286 plastics	1	1	—
3291 pesticides	0	0	—
3293 explosives	0	0	—
Total crude materials, inedible except fuels	29	23	6
Subtotal forest products, wood and chips	24	18	6
4189 lumber	24	18	6
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	—
4338 soil & fill dirt	0	0	—
Subtotal iron ore and scrap	5	4	0
4420 iron & steel scrap	5	4	0
Subtotal other non-metal. min.	0	0	—
4900 non-metal. min. nec	0	0	—
Total primary manufactured goods	734	391	343
Subtotal paper products	3	3	0
5120 paper & paperboard	0	0	—
5190 paper products nec	3	3	0
Subtotal lime, cement and glass	36	36	0
5220 cement & concrete	29	29	—
5240 glass & glass prod.	0	0	0
5290 misc. mineral prod.	6	6	—

KAWAIHAE HARBOR, HI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Coastwise	
		Receipts	Shipments
Subtotal primary iron and steel products	1	1	0
5360 i&s bars & shapes	1	1	—
5370 i&s pipe & tube	1	1	0
Subtotal primary non-ferrous metal products	693	351	343
5480 fab. metal products	693	351	343
Subtotal primary wood products	1	1	—
5540 primary wood prod.	1	1	—
Total food and farm products	88	75	13
Subtotal fish	0	0	—
6134 fish (not shellfish)	0	0	—
Subtotal grain	1	1	—
6442 rice	1	1	—
Subtotal vegetable products	1	1	0
6654 vegetables & prod.	1	1	0
Subtotal processed grain and animal feed	7	7	—
6746 wheat flour	0	0	—
6747 grain mill products	0	0	—
6781 hay & fodder	0	0	—
6782 animal feed, prep.	6	6	—
Subtotal other agricultural products	79	66	13
6811 meat, fresh, frozen	3	3	—
6822 dairy products	1	1	—
6839 animals & prod. nec	12	7	5
6857 fruit & nuts nec	1	1	—
6861 sugar	0	0	—
6865 molasses	1	—	1
6871 coffee	0	0	0
6885 alcoholic beverages	10	10	—
6887 groceries	5	5	—
6889 food products nec	44	38	6
6899 farm products nec	2	1	1
Total all manufactured equipment, machinery and products	215	149	66
7110 machinery (not elec)	4	2	2
7120 electrical machinery	0	0	0
7210 vehicles & parts	121	80	41
7220 aircraft & parts	0	—	0
7230 ships & boats	1	0	0
7400 manufac. wood prod.	2	2	—
7500 textile products	0	0	—
7600 rubber & plastic pr.	0	0	0
7900 manufac. prod. nec	86	64	22

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
1990	2,409	1993	2,216	1996	2,828	1999	3,513
1991	2,434	1994	2,368	1997	2,895		
1992	2,357	1995	2,586	1998	2,851		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign Imports	Domestic		
			Total	Coastwise	
				Receipts	Shipments
Total, all commodities	3,513	34	3,479	2,125	1,353
Total coal	31	31	—	—	—
1100 coal lignite	31	31	—	—	—
Total petroleum and petroleum products	563	3	559	554	6
Subtotal petroleum products	563	3	559	554	6
2211 gasoline	193	—	193	193	—
2330 distillate fuel oil	225	—	225	225	1
2340 residual fuel oil	126	—	126	121	5
2350 lube oil & greases	2	—	2	2	0
2640 liquid natural gas	15	3	12	12	—
2990 petro. products nec	1	—	1	1	—
Total chemicals and related products	37	—	37	37	0
Subtotal fertilizers	22	—	22	21	0
3110 nitrogenous fert.	2	—	2	2	—
3190 fert. & mixes nec	20	—	20	20	0
Subtotal other chemicals and related products	15	—	15	15	0
3274 sodium hydroxide	1	—	1	1	—
3275 inorg. elem., oxides, & halogen salts	0	—	0	0	—

KAHULUI HARBOR, MAUI, HI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign Imports	Domestic		
			Total	Coastwise	
				Receipts	Shipments
3276 metallic salts	9	—	9	9	—
3281 radioactive material	0	—	0	—	0
3282 pigments & paints	1	—	1	1	0
3284 medicines	0	—	0	0	—
3285 perfumes & cleansers	2	—	2	2	0
3286 plastics	1	—	1	1	—
3291 pesticides	1	—	1	1	—
3293 explosives	0	—	0	0	—
Total crude materials, inedible except fuels	167	—	167	134	32
Subtotal forest products, wood and chips	51	—	51	41	10
4189 lumber	51	—	51	41	10
4190 forest products nec	0	—	0	0	—
Subtotal pulp and waste paper	6	—	6	0	5
4225 pulp & waste paper	6	—	6	0	5
Subtotal soil, sand, gravel, rock and stone	100	—	100	85	15
4331 sand & gravel	99	—	99	84	15
4338 soil & fill dirt	1	—	1	1	—
Subtotal iron ore and scrap	7	—	7	5	2
4420 iron & steel scrap	7	—	7	5	2
Subtotal sulphur, clay and salt	1	—	1	1	—
4782 clay & refrac. mat.	1	—	1	1	—
Subtotal other non-metal. min.	1	—	1	1	—
4900 non-metal. min. nec	1	—	1	1	—
Total primary manufactured goods	1,577	—	1,577	904	673
Subtotal paper products	16	—	16	15	0
5110 newsprint	2	—	2	2	—
5120 paper & paperboard	1	—	1	1	0
5190 paper products nec	13	—	13	13	0
Subtotal lime, cement and glass	60	—	60	60	0
5210 lime	0	—	0	0	—
5220 cement & concrete	45	—	45	45	—
5240 glass & glass prod.	1	—	1	1	0
5290 misc. mineral prod.	14	—	14	14	—
Subtotal primary iron and steel products	7	—	7	7	0
5360 i&s bars & shapes	1	—	1	1	0
5370 i&s pipe & tube	6	—	6	6	0
Subtotal primary non-ferrous metal products	1,489	—	1,489	817	673
5480 fab. metal products	1,489	—	1,489	817	673
Subtotal primary wood products	5	—	5	5	—
5540 primary wood prod.	5	—	5	5	—
Total food and farm products	646	—	646	177	469
Subtotal fish	0	—	0	0	0
6134 fish (not shellfish)	0	—	0	0	0
Subtotal grain	3	—	3	3	—
6442 rice	3	—	3	3	—
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	1	—	1	1	—
6782 animal feed, prep.	10	—	10	10	—
Subtotal other agricultural products	621	—	621	152	469
6811 meat, fresh, frozen	10	—	10	10	0
6822 dairy products	4	—	4	4	—
6839 animals & prod. nec	6	—	6	4	2
6857 fruit & nuts nec	2	—	2	2	—
6858 fruit juices	112	—	112	—	112
6861 sugar	237	—	237	0	237
6865 molasses	110	—	110	—	110
6871 coffee	0	—	0	0	—
6885 alcoholic beverages	22	—	22	22	—
6887 groceries	10	—	10	10	—
6889 food products nec	106	—	106	99	7
6899 farm products nec	2	—	2	2	0
Total all manufactured equipment, machinery and products	492	0	492	320	173
7110 machinery (not elec)	16	—	16	8	8
7120 electrical machinery	1	—	1	1	0
7210 vehicles & parts	243	—	243	150	94
7220 aircraft & parts	0	—	0	0	—
7230 ships & boats	1	—	1	1	0
7400 manufac. wood prod.	2	0	2	2	0
7500 textile products	1	—	1	1	0
7600 rubber & plastic pr.	1	—	1	1	0
7900 manufac. prod. nec	227	0	227	156	71
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
1990	8,034	1993	9,357	1996	8,745	1999	8,707
1991	9,002	1994	9,022	1997	8,162		
1992	8,824	1995	8,233	1998	6,658		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			Internal Intra Upbound
		Imports	Exports	Imports	Total	Coastwise		
					Receipts	Shipments		
Total, all commodities	8,707	4,942	296	53	3,416	2,237	1,170	9
Total coal	298	298	---	---	---	---	---	---
1100 coal lignite	298	298	---	---	---	---	---	---
Total petroleum and petroleum products	8,116	4,460	244	53	3,359	2,235	1,114	9
Subtotal crude petroleum	6,331	4,195	---	---	2,136	2,136	---	---
2100 crude petroleum	6,331	4,195	---	---	2,136	2,136	---	---
Subtotal petroleum products	1,785	264	244	53	1,223	99	1,114	9
2211 gasoline	536	112	---	53	371	8	364	---
2221 kerosene	15	15	---	---	---	---	---	---
2330 distillate fuel oil	337	13	---	---	323	48	276	---
2340 residual fuel oil	446	---	---	---	446	5	436	5
2350 lube oil & greases	5	---	---	---	5	0	---	4
2429 naphtha & solvents	381	124	244	---	13	---	13	---
2430 asphalt, tar & pitch	38	---	---	---	38	38	---	---
2640 liquid natural gas	27	---	---	---	27	1	26	---
Total chemicals and related products	6	---	6	---	---	---	---	---
Subtotal other chemicals and related products	6	---	6	---	---	---	---	---
3299 chem. products nec	6	---	6	---	---	---	---	---
Total crude materials, inedible except fuels	46	---	46	---	1	1	---	---
Subtotal iron ore and scrap	46	---	46	---	1	1	---	---
4420 iron & steel scrap	46	---	46	---	1	1	---	---
Total primary manufactured goods	239	183	0	---	55	---	55	---
Subtotal lime, cement and glass	237	181	---	---	55	---	55	---
5220 cement & concrete	237	181	---	---	55	---	55	---
Subtotal primary iron and steel products	3	2	0	---	---	---	---	---
5360 i&s bars & shapes	3	2	0	---	---	---	---	---
Total food and farm products	0	0	---	---	---	---	---	---
Subtotal other agricultural products	0	0	---	---	---	---	---	---
6885 alcoholic beverages	0	0	---	---	---	---	---	---
Total all manufactured equipment, machinery and products	1	0	0	---	1	1	---	---
7110 machinery (not elec)	0	---	0	---	---	---	---	---
7210 vehicles & parts	0	0	---	---	---	---	---	---
7400 manufac. wood prod.	1	---	---	---	1	1	---	---

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 Kalihi Channel.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	11,341	1993	10,595	1996	12,010	1999	12,259
1991	11,208	1994	11,672	1997	12,704		
1992	11,522	1995	11,545	1998	13,723		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			Internal Intraport
		Imports*	Exports*	Imports	Total	Coastwise		
					Receipts	Shipments		
Total, all commodities	12,259	1,391	310	48	10,510	5,551	4,884	74
Total coal	293	293	—	—	0	0	—	—
1100 coal lignite	293	293	—	—	—	—	—	—
1200 coal coke	0	—	—	—	0	0	—	—
Total petroleum and petroleum products	1,747	837	222	5	683	277	331	74
Subtotal crude petroleum	784	784	—	—	—	—	—	—
2100 crude petroleum	784	784	—	—	—	—	—	—
Subtotal petroleum products	963	53	222	5	683	277	331	74
2211 gasoline	93	—	7	—	86	19	61	6
2221 kerosene	7	7	—	—	—	—	—	—
2330 distillate fuel oil	166	13	1	5	147	2	143	2
2340 residual fuel oil	415	—	—	—	415	241	108	66
2350 lube oil & greases	10	—	1	—	9	5	4	—
2429 naphtha & solvents	246	33	213	—	—	—	—	—
2540 petroleum coke	0	0	—	—	0	0	—	—
2640 liquid natural gas	12	0	0	—	12	1	11	—
2990 petro. products nec	13	—	—	—	13	10	3	—
Total chemicals and related products	233	6	1	—	227	152	75	—
Subtotal fertilizers	129	1	0	—	128	68	60	—
3110 nitrogenous fert.	2	—	—	—	2	2	—	—
3130 potassic fert.	0	—	—	—	0	0	—	—
3190 fert. & mixes nec	126	1	0	—	126	66	60	—
Subtotal other chemicals and related products	104	5	0	—	99	84	15	—
3211 acyclic hydrocarbons	0	0	—	—	—	—	—	—
3220 alcohols	0	—	—	—	0	0	—	—
3230 carboxylic acids	4	—	—	—	4	4	0	—
3240 nitrogen func. comp.	0	0	—	—	—	—	—	—
3260 organic comp. nec	0	0	—	—	0	0	—	—
3274 sodium hydroxide	8	—	—	—	8	8	—	—
3275 inorg. elem., oxides, & halogen salts	4	0	—	—	4	4	0	—
3276 metallic salts	0	0	0	—	—	—	—	—
3281 radioactive material	2	—	—	—	2	0	2	—
3282 pigments & paints	17	0	0	—	17	15	2	—
3283 coloring mat. nec	0	—	—	—	0	0	—	—
3284 medicines	5	0	—	—	5	5	0	—
3285 perfumes & cleansers	39	0	0	—	38	34	4	—
3286 plastics	12	1	0	—	10	8	2	—
3291 pesticides	3	0	—	—	3	2	1	—
3292 starches, gluten, glue	0	0	—	—	0	—	0	—
3293 explosives	5	3	—	—	2	1	1	—
3298 wood & resin chem.	0	—	—	—	0	0	—	—
3299 chem. products nec	6	0	—	—	6	4	2	—
Total crude materials, inedible except fuels	587	17	71	—	498	217	281	—
Subtotal forest products, wood and chips	326	1	2	—	324	181	142	—
4150 fuel wood	0	0	—	—	—	—	—	—
4170 wood in the rough	2	0	0	—	1	1	—	—
4189 lumber	322	0	2	—	320	178	141	—
4190 forest products nec	3	0	0	—	3	2	1	—
Subtotal pulp and waste paper	59	—	44	—	14	9	6	—
4225 pulp & waste paper	59	—	44	—	14	9	6	—
Subtotal soil, sand, gravel, rock and stone	135	16	15	—	104	16	88	—
4310 building stone	0	0	—	—	0	—	0	—
4323 gypsum	16	16	—	—	—	—	—	—
4331 sand & gravel	108	0	15	—	93	9	84	—
4338 soil & fill dirt	11	—	—	—	11	7	4	—
Subtotal iron ore and scrap	53	—	5	—	48	5	43	—
4420 iron & steel scrap	53	—	5	—	48	5	43	—

HONOLULU HARBOR, OAHU, HI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			Internal Intraport
		Imports*	Exports*	Imports	Total	Coastwise		
						Receipts	Shipments	
Subtotal non-ferrous ores and scrap	1	---	1	---	0	0	0	---
4630 copper ore	0	---	---	---	0	0	---	---
4680 non-ferrous scrap	1	---	1	---	0	---	0	---
Subtotal sulphur, clay and salt	5	---	4	---	0	0	---	---
4741 sulphur, (dry)	4	---	4	---	---	---	---	---
4782 clay & refrac. mat.	0	---	---	---	0	0	---	---
Subtotal other non-metal. min.	9	1	---	---	9	7	2	---
4900 non-metal. min. nec	9	1	---	---	9	7	2	---
Total primary manufactured goods	4,382	139	3	14	4,226	1,992	2,235	---
Subtotal paper products	153	2	2	14	135	95	40	---
5110 newsprint	20	0	---	14	6	4	2	---
5120 paper & paperboard	23	1	0	---	21	19	2	---
5190 paper products nec	110	0	2	---	108	73	35	---
Subtotal lime, cement and glass	323	127	0	---	196	108	87	---
5210 lime	0	---	---	---	0	0	0	---
5220 cement & concrete	188	121	---	---	67	14	53	---
5240 glass & glass prod.	8	1	---	---	7	2	5	---
5290 misc. mineral prod.	126	5	0	---	121	93	28	---
Subtotal primary iron and steel products	45	6	0	---	39	22	18	---
5312 pig iron	0	---	---	---	0	0	---	---
5330 i&s plates & sheets	1	---	0	---	1	1	---	---
5360 i&s bars & shapes	25	5	0	---	20	16	4	---
5370 i&s pipe & tube	19	0	0	---	19	5	14	---
5390 primary i&s nec	0	0	---	---	---	---	---	---
Subtotal primary non-ferrous metal products	3,808	3	0	0	3,805	1,727	2,078	---
5421 copper	0	---	0	---	---	---	---	---
5422 aluminum	0	0	0	---	0	0	---	---
5480 fab. metal products	3,808	3	0	0	3,805	1,727	2,078	---
Subtotal primary wood products	53	1	1	---	51	39	12	---
5540 primary wood prod.	53	1	1	---	51	39	12	---
Total food and farm products	2,199	55	10	29	2,105	1,283	821	---
Subtotal fish	9	4	0	---	6	5	1	---
6134 fish (not shellfish)	7	2	0	---	6	5	1	---
6136 shellfish	2	2	0	---	---	---	---	---
Subtotal grain	79	3	0	29	47	37	10	---
6241 wheat	29	---	---	29	---	---	---	---
6344 corn	0	---	---	---	0	0	---	---
6442 rice	50	3	0	---	47	37	10	---
6443 barley & rye	0	---	---	---	0	0	---	---
Subtotal oilseeds	0	0	---	---	0	0	---	---
6521 peanuts	0	---	---	---	0	0	---	---
6522 soybeans	0	0	---	---	---	---	---	---
6534 flaxseed	0	---	---	---	0	0	---	---
Subtotal vegetable products	134	5	0	---	128	99	30	---
6653 vegetable oils	0	0	0	---	0	0	---	---
6654 vegetables & prod.	134	5	0	---	128	99	30	---
Subtotal processed grain and animal feed	142	3	2	---	137	102	35	---
6746 wheat flour	28	0	1	---	27	23	4	---
6747 grain mill products	7	3	0	---	4	4	1	---
6781 hay & fodder	3	---	---	---	3	2	2	---
6782 animal feed, prep.	103	0	0	---	103	74	29	---
Subtotal other agricultural products	1,834	40	7	---	1,787	1,040	746	---
6811 meat, fresh, frozen	121	5	1	---	114	91	23	---
6817 meat, prepared	5	0	0	---	5	5	---	---
6822 dairy products	48	1	0	---	47	40	7	---
6835 fish, prepared	2	2	---	---	---	---	---	---
6838 tallow, animal oils	0	---	---	---	0	0	---	---
6839 animals & prod. nec	47	0	0	---	47	23	24	---
6856 bananas & plantains	5	---	0	---	5	5	0	---
6857 fruit & nuts nec	62	2	0	---	60	54	6	---
6858 fruit juices	277	3	3	---	271	115	156	---
6861 sugar	2	0	---	---	2	1	1	---
6865 molasses	317	---	---	---	317	157	160	---
6871 coffee	7	0	0	---	7	4	3	---
6885 alcoholic beverages	225	23	0	---	202	151	51	---
6887 groceries	118	---	---	---	118	89	30	---
6888 water & ice	1	---	1	---	---	---	---	---
6889 food products nec	548	5	1	---	542	269	273	---
6891 tobacco & products	1	0	0	---	1	1	0	---
6894 natural fibers nec	0	---	---	---	0	0	---	---
6899 farm products nec	48	0	---	---	48	35	13	---

HONOLULU HARBOR, OAHU, HI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			Internal Intraport
		Imports*	Exports*	Imports	Total	Coastwise		
						Receipts	Shipments	
Total all manufactured equipment, machinery and products	2,805	44	3	---	2,758	1,623	1,135	---
7110 machinery (not elec)	183	1	2	---	180	105	75	---
7120 electrical machinery	21	1	1	---	19	16	3	---
7210 vehicles & parts	890	21	0	---	868	374	494	---
7220 aircraft & parts	0	0	---	---	0	0	0	---
7230 ships & boats	4	0	0	---	4	1	3	---
7300 ordnance & access.	0	---	---	---	0	0	0	---
7400 manufac. wood prod.	25	1	0	---	24	15	9	---
7500 textile products	60	4	0	---	56	47	8	---
7600 rubber & plastic pr.	18	5	0	---	12	9	3	---
7900 manufac. prod. nec	1,604	10	0	---	1,594	1,055	539	---
Total unknown or not elsewhere classified	13	0	0	---	12	6	6	---
9900 unknown or nec	13	0	0	---	12	6	6	---

*Includes 0 (x1000) tons of foreign inbound in-transits; Includes 0 (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
1990	959	1993	1,283	1996	1,203	1999	1,348
1991	1,005	1994	1,151	1997	1,091		
1992	1,143	1995	1,130	1998	938		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign	Domestic		
		Imports	Total	Coastwise	
				Receipts	Shipments
Total, all commodities	1,348	3	1,346	845	501
Total petroleum and petroleum products	66	3	63	63	0
Subtotal petroleum products	66	3	63	63	0
2211 gasoline	53	---	53	53	---
2330 distillate fuel oil	1	---	1	1	---
2350 lube oil & greases	1	---	1	1	0
2640 liquid natural gas	10	3	7	7	---
2990 petro. products nec	0	---	0	0	---
Total chemicals and related products	18	---	18	18	1
Subtotal fertilizers	18	---	18	17	1
3190 fert. & mixes nec	18	---	18	17	1
Subtotal other chemicals and related products	1	---	1	1	---
3282 pigments & paints	0	---	0	0	---
3284 medicines	0	---	0	0	---
3285 perfumes & cleansers	0	---	0	0	---
3286 plastics	0	---	0	0	---
3291 pesticides	0	---	0	0	---
3293 explosives	0	---	0	0	---
Total crude materials, inedible except fuels	34	---	34	31	3
Subtotal forest products, wood and chips	28	---	28	27	2
4189 lumber	28	---	28	27	2
4190 forest products nec	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	0	---	0	0	---
4338 soil & fill dirt	0	---	0	0	---
Subtotal iron ore and scrap	5	---	5	4	1
4420 iron & steel scrap	5	---	5	4	1
Subtotal other non-metal. min.	0	---	0	0	---
4900 non-metal. min. nec	0	---	0	0	---
Total primary manufactured goods	746	---	746	481	265
Subtotal paper products	4	---	4	4	0
5110 newsprint	1	---	1	1	---
5120 paper & paperboard	0	---	0	0	---
5190 paper products nec	3	---	3	3	0
Subtotal lime, cement and glass	20	---	20	20	0
5220 cement & concrete	16	---	16	16	---
5240 glass & glass prod.	0	---	0	0	0

NAWILIWILI HARBOR, KAUAI, HI
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign	Domestic		
		Imports	Total	Coastwise	
				Receipts	Shipments
5290 misc. mineral prod.	3	---	3	3	---
Subtotal primary iron and steel products	3	---	3	3	0
5360 i&s bars & shapes	1	---	1	1	0
5370 i&s pipe & tube	2	---	2	2	0
Subtotal primary non-ferrous metal products	718	---	718	453	265
5480 fab. metal products	718	---	718	453	265
Subtotal primary wood products	1	---	1	1	---
5540 primary wood prod.	1	---	1	1	---
Total food and farm products	239	---	239	83	155
Subtotal fish	0	---	0	0	---
6134 fish (not shellfish)	0	---	0	0	---
Subtotal grain	1	---	1	1	---
6442 rice	1	---	1	1	---
Subtotal vegetable products	3	---	3	3	0
6654 vegetables & prod.	3	---	3	3	0
Subtotal processed grain and animal feed	6	---	6	6	---
6746 wheat flour	0	---	0	0	---
6781 hay & fodder	0	---	0	0	---
6782 animal feed, prep.	5	---	5	5	---
Subtotal other agricultural products	229	---	229	74	155
6811 meat, fresh, frozen	3	---	3	3	---
6822 dairy products	1	---	1	1	---
6839 animals & prod. nec	4	---	4	2	2
6857 fruit & nuts nec	2	---	2	2	0
6858 fruit juices	0	---	0	---	0
6861 sugar	102	---	102	0	102
6865 molasses	45	---	45	---	45
6871 coffee	2	---	2	0	2
6885 alcoholic beverages	9	---	9	9	---
6887 groceries	3	---	3	3	---
6889 food products nec	56	---	56	53	3
6899 farm products nec	1	---	1	1	0
Total all manufactured equipment, machinery and products	246	---	246	168	78
7110 machinery (not elec)	5	---	5	2	3
7120 electrical machinery	0	---	0	0	0
7210 vehicles & parts	128	---	128	82	46
7220 aircraft & parts	0	---	0	0	0
7230 ships & boats	0	---	0	0	0
7300 ordnance & access.	0	---	0	0	0
7400 manufac. wood prod.	1	---	1	0	0
7500 textile products	0	---	0	0	---
7600 rubber & plastic pr.	0	---	0	0	0
7800 empty containers	0	---	0	---	0
7900 manufac. prod. nec	111	---	111	84	27

Other Harbors and Waterways 1999

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	3190 fert. & mixes nec	3
	4189 lumber	12
	5190 paper products nec	0
	5220 cement & concrete	1
	5240 glass & glass prod.	0
	5360 i&s bars & shapes	0
	5370 i&s pipe & tube	2
	5480 fab. metal products	93
	6839 animals & prod. nec	4
	6889 food products nec	6
	7210 vehicles & parts	37
	7230 ships & boats	1
	7300 ordnance & access.	0
	7900 manufac. prod. nec	35
	Total Tons(x1000)	195
PORT ALLEN HARBOR, KAUAI, HI	3110 nitrogenous fert.	3
	3274 sodium hydroxide	1
		Total Tons(x1000)
WAKE ISLAND HARBOR, WAKE ISLAND	2211 gasoline	0
		Total Tons(x1000)
WELLS HARBOR, MIDWAY ISLAND	No Commerce Reported	

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
1990	6,359	1993	7,218	1996	7,705	1999	6,767
1991	6,772	1994	7,927	1997	7,569		
1992	6,415	1995	8,582	1998	7,115		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Domestic					
		Coastwise Shipments	Internal				Through
			Inbound Upbound	Outbound Upbound	Downbnd	Downbnd	
Total, all commodities	6,767	18	46	35	874	1,775	4,019
Total petroleum and petroleum products	1,737	---	---	---	---	1,735	2
Subtotal petroleum products	1,737	---	---	---	---	1,735	2
2211 gasoline	1,192	---	---	---	---	1,192	---
2330 distillate fuel oil	545	---	---	---	---	543	2
Total chemicals and related products	138	15	33	35	21	22	13
Subtotal fertilizers	76	15	---	22	16	10	12
3110 nitrogenous fert.	21	15	---	3	---	---	3
3190 fert. & mixes nec	55	---	---	19	16	10	10
Subtotal other chemicals and related products	63	---	33	13	5	12	0
3273 ammonia	29	---	---	13	5	12	---
3274 sodium hydroxide	33	---	33	---	---	---	---
3286 plastics	0	---	---	---	0	---	0
Total crude materials, inedible except fuels	447	---	---	---	3	0	444
Subtotal forest products, wood and chips	417	---	---	---	3	0	415
4150 fuel wood	1	---	---	---	---	---	1
4161 wood chips	405	---	---	---	---	---	405
4170 wood in the rough	10	---	---	---	3	---	8
4189 lumber	0	---	---	---	---	0	---
Subtotal pulp and waste paper	14	---	---	---	---	---	14
4225 pulp & waste paper	14	---	---	---	---	---	14
Subtotal iron ore and scrap	11	---	---	---	---	---	11
4420 iron & steel scrap	11	---	---	---	---	---	11
Subtotal sulphur, clay and salt	3	---	---	---	---	---	3
4782 clay & refrac. mat.	3	---	---	---	---	---	3
Subtotal other non-metal. min.	1	---	---	---	---	---	1
4900 non-metal. min. nec	1	---	---	---	---	---	1
Total primary manufactured goods	72	---	0	---	0	2	70
Subtotal paper products	70	---	---	---	---	---	70
5190 paper products nec	70	---	---	---	---	---	70
Subtotal lime, cement and glass	0	---	0	---	---	0	---
5290 misc. mineral prod.	0	---	0	---	---	0	---
Subtotal primary non-ferrous metal products	2	---	---	---	0	1	0
5480 fab. metal products	2	---	---	---	0	1	0
Total food and farm products	4,296	---	0	---	834	0	3,462
Subtotal grain	4,150	---	0	---	722	---	3,429
6241 wheat	3,899	---	---	---	710	---	3,189
6344 corn	3	---	0	---	3	---	---
6443 barley & rye	248	---	---	---	9	---	239
Subtotal vegetable products	43	---	---	---	10	0	33
6654 vegetables & prod.	43	---	---	---	10	0	33
Subtotal processed grain and animal feed	68	---	---	---	68	---	---
6781 hay & fodder	68	---	---	---	68	---	---
Subtotal other agricultural products	35	---	---	---	35	---	0
6822 dairy products	28	---	---	---	28	---	---
6839 animals & prod. nec	3	---	---	---	3	---	---
6889 food products nec	0	---	---	---	---	---	0
6899 farm products nec	4	---	---	---	4	---	---
Total all manufactured equipment, machinery and products	77	3	12	---	16	17	29
7800 empty containers	50	3	12	---	16	16	2
7900 manufac. prod. nec	27	---	---	---	---	1	26
Ton-miles (x1000)	229,094	588	1,308	93	24,309	62,117	140,679
Tons All Traffic (x1000)	6,767						
Ton-miles All Traffic (x1000)	229,094						

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
1990	4,804	1993	5,339	1996	5,707	1999	5,836
1991	5,053	1994	5,929	1997	6,103		
1992	4,719	1995	6,804	1998	5,840		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Internal				
		Inbound	Outbound	Through		Intra
		Upbound	Downbnd	Upbound	Downbnd	Upbound
Total, all commodities	5,836	1,797	3,072	18	947	2
Total petroleum and petroleum products	1,739	1,735	2	---	---	2
Subtotal petroleum products	1,739	1,735	2	---	---	2
2211 gasoline	1,193	1,192	---	---	---	1
2330 distillate fuel oil	546	543	2	---	---	1
Total chemicals and related products	74	62	12	---	0	---
Subtotal fertilizers	45	32	12	---	---	---
3110 nitrogenous fert.	6	3	3	---	---	---
3190 fert. & mixes nec	39	29	10	---	---	---
Subtotal other chemicals and related products	29	29	---	---	0	---
3273 ammonia	29	29	---	---	---	---
3286 plastics	0	---	---	---	0	---
Total crude materials, inedible except fuels	445	---	347	0	97	---
Subtotal forest products, wood and chips	415	---	336	0	79	---
4150 fuel wood	1	---	1	---	---	---
4161 wood chips	405	---	326	---	79	---
4170 wood in the rough	8	---	8	---	---	---
4189 lumber	0	---	---	0	---	---
Subtotal pulp and waste paper	14	---	---	---	14	---
4225 pulp & waste paper	14	---	---	---	14	---
Subtotal iron ore and scrap	11	---	11	---	---	---
4420 iron & steel scrap	11	---	11	---	---	---
Subtotal sulphur, clay and salt	3	---	---	---	3	---
4782 clay & refrac. mat.	3	---	---	---	3	---
Subtotal other non-metal. min.	1	---	---	---	1	---
4900 non-metal. min. nec	1	---	---	---	1	---
Total primary manufactured goods	71	0	---	2	70	---
Subtotal paper products	70	---	---	---	70	---
5190 paper products nec	70	---	---	---	70	---
Subtotal lime, cement and glass	0	---	---	0	---	---
5290 misc. mineral prod.	0	---	---	0	---	---
Subtotal primary non-ferrous metal products	2	0	---	1	0	---
5480 fab. metal products	2	0	---	1	0	---
Total food and farm products	3,462	---	2,711	0	751	---
Subtotal grain	3,429	---	2,711	---	718	---
6241 wheat	3,189	---	2,499	---	690	---
6443 barley & rye	239	---	211	---	28	---
Subtotal vegetable products	33	---	---	0	33	---
6654 vegetables & prod.	33	---	---	0	33	---
Subtotal other agricultural products	0	---	---	---	0	---
6889 food products nec	0	---	---	---	0	---
Total all manufactured equipment, machinery and products	45	0	---	16	29	---
7800 empty containers	18	0	---	16	2	---
7900 manufac. prod. nec	27	0	---	0	27	---
Ton-miles (x1000)	390,638	18,286	231,143	2,653	138,287	270
Tons All Traffic (x1000)	5,836					
Ton-miles All Traffic (x1000)	390,638					

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

Freight Traffic, 1999
(thousand short tons)

Locality	Foreign/Canadian		Domestic				Total	Percent	Through* Traffic
	Imports	Exports	Coastwise		Internal				
			Receipts	Shipmnts	Receipts Shipmnts	Intraport			
CHINOOK CHANNEL, WA	---	---	---	---	1	---	1	0.00	---
CLATSKANIE RIVER, OR	---	---	---	---	---	---	---	0.00	---
COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUV	6,234	23,755	4,995	494	9,791	1,678	46,946	76.22	3,959
COLUMBIA RIVER ABOVE THE DALLES DAM, WA AND OR TO	---	---	---	---	2,002	0	2,002	3.25	6,698
COLUMBIA RIVER AND TRIBUTARIES ABOVE MCNARY LOCK A	---	---	---	18	955	---	973	1.58	5,794
COLUMBIA RIVER AT BAKERS BAY, WA	---	---	---	---	6	---	6	0.01	---
COLUMBIA RIVER BETWEEN VANCOUVER, WA AND THE DALLE	---	---	15	13	863	170	1,061	1.72	8,335
COLUMBIA RIVER BETWEEN WENATCHEE AND KETTLE FALLS	---	---	---	---	---	---	---	0.00	---
COWLITZ RIVER, WA	---	---	---	---	1	---	1	0.00	---
DEEP RIVER, WA	---	---	---	---	---	---	---	0.00	---
ELOKOMIN SLOUGH, WA	---	---	---	---	---	---	---	0.00	---
GRAYS RIVER, WA	---	---	---	---	---	---	---	0.00	---
LAKE RIVER, WA	---	---	---	---	0	---	0	0.00	---
LEWIS RIVER, WA	---	---	---	---	---	---	---	0.00	---
MULTNOMAH CHANNEL, OR	---	---	72	---	1,130	0	1,203	1.95	---
OREGON SLOUGH (NORTH PORTLAND HARBOR), OR	866	2,200	---	---	650	---	3,717	6.03	---
SKAMOKAWA (STEAMBOAT) SLOUGH, WA	---	---	---	---	0	---	0	0.00	---
SKAMOKAWA CREEK, WA	---	---	---	---	---	---	---	0.00	---
SKIPANON CHANNEL, OR	---	---	50	---	8	---	58	0.09	---
SNAKE RIVER, OR, WA AND ID	---	---	---	---	4,869	2	4,871	7.91	965
WESTPORT SLOUGH, OR	---	---	---	---	8	---	8	0.01	---
WILLAMETTE RIVER ABOVE PORTLAND AND YAMHILL RIVER	---	---	---	---	535	213	748	1.21	---
YOUNGS BAY AND YOUNGS RIVER, OR	---	---	---	---	---	---	---	0.00	---
TOTAL (UNADJUSTED)	7,100	25,955	5,132	526	20,818	2,063	61,594	---	25,752
PERCENT (UNADJUSTED)	11.53	42.14	8.33	0.85	33.80	3.35	---	100.00	---
NET VOLUME OF TONNAGE FOR THE BASIN**	7,100	25,955	5,132	526	10,925	2,063	51,701	---	---
PERCENT (ADJUSTED)	13.73	50.20	9.93	1.02	21.13	3.99	---	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
1990	38,472	1993	37,459	1996	38,799	1999	38,779
1991	37,000	1994	37,065	1997	38,443		
1992	38,174	1995	44,041	1998	36,441		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Through		Through		Total	Coastwise		Internal Through
		Upbound	Downbnd	Upbound	Downbnd		Upbound	Downbnd	
Total, all commodities	38,779	6,309	25,866	791	89	5,724	5,132	526	66
Total coal	12	---	12	---	---	---	---	---	---
1100 coal lignite	12	---	12	---	---	---	---	---	---

COLUMBIA RIVER ENTRANCE, OR AND WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			Internal Through Upbound
		Through		Through		Total	Coastwise		
		Upbound	Downbnd	Upbound	Downbnd		Upbound	Downbnd	
Total petroleum and petroleum products	6,305	1,076	544	265	66	4,354	4,263	92	---
Subtotal crude petroleum	283	256	---	---	---	27	27	---	---
2100 crude petroleum	283	256	---	---	---	27	27	---	---
Subtotal petroleum products	6,022	821	544	265	66	4,327	4,236	92	---
2211 gasoline	3,345	546	---	96	---	2,703	2,702	1	---
2221 kerosene	56	21	0	16	---	18	18	---	---
2330 distillate fuel oil	1,198	51	8	130	---	1,010	987	23	---
2340 residual fuel oil	359	15	---	23	---	322	278	44	---
2350 lube oil & greases	112	0	1	---	---	111	111	---	---
2410 petro. jelly & waxes	0	---	0	---	---	---	---	---	---
2429 naphtha & solvents	26	16	---	---	---	9	---	9	---
2430 asphalt, tar & pitch	326	171	1	---	---	155	140	14	---
2540 petroleum coke	600	---	533	---	66	---	---	---	---
Total chemicals and related products	5,283	362	4,490	38	22	371	259	112	---
Subtotal fertilizers	2,374	169	2,043	12	0	150	104	46	---
3110 nitrogenous fert.	340	148	30	12	---	150	104	46	---
3130 potassic fert.	2,013	---	2,013	---	0	---	---	---	---
3190 fert. & mixes nec	21	21	0	---	---	---	---	---	---
Subtotal other chemicals and related products	2,910	193	2,448	26	22	221	155	66	---
3211 acyclic hydrocarbons	0	0	---	---	---	---	---	---	---
3212 benzene & toluene	96	22	---	---	---	74	74	---	---
3219 other hydrocarbons	0	0	0	---	---	---	---	---	---
3220 alcohols	140	118	2	5	---	15	2	13	---
3230 carboxylic acids	5	1	5	---	---	---	---	---	---
3240 nitrogen func. comp.	1	0	1	---	0	---	---	---	---
3250 organo - inorg. comp.	1	1	0	---	0	---	---	---	---
3260 organic comp. nec	2	0	2	---	---	---	---	---	---
3272 sulphuric acid	1	1	0	---	---	0	---	0	---
3273 ammonia	75	0	---	12	---	63	40	23	---
3274 sodium hydroxide	105	3	9	3	22	68	39	29	---
3275 inorg. elem., oxides, & halogen salts	27	25	3	---	---	---	---	---	---
3276 metallic salts	2,390	7	2,383	---	---	---	---	---	---
3279 inorganic chem. nec	1	1	0	---	---	---	---	---	---
3281 radioactive material	0	0	---	---	---	---	---	---	---
3282 pigments & paints	2	1	1	---	---	---	---	---	---
3283 coloring mat. nec	0	0	0	---	---	---	---	---	---
3284 medicines	0	0	0	---	---	---	---	---	---
3285 perfumes & cleansers	6	2	4	---	0	---	---	---	---
3286 plastics	21	7	13	---	0	1	---	1	---
3291 pesticides	0	0	0	---	---	---	---	---	---
3292 starches, gluten, glue	2	0	1	---	---	---	---	---	---
3293 explosives	1	1	0	---	---	---	---	---	---
3297 chemical additives	1	0	1	---	---	---	---	---	---
3298 wood & resin chem.	26	---	19	6	---	---	---	---	---

COLUMBIA RIVER ENTRANCE, OR AND WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Total	Domestic		Internal Through Upbound
		Through		Through			Coastwise	Through	
		Upbound	Downbnd	Upbound	Downbnd				
3299 chem. products nec	6	3	3	—	0	—	—	—	—
Total crude materials, inedible except fuels	5,971	1,869	2,729	488	0	886	610	276	—
Subtotal forest products, wood and chips	3,034	142	1,989	20	—	882	606	276	—
4110 rubber & gums	1	1	—	—	—	—	—	—	—
4150 fuel wood	3	—	3	—	—	—	—	—	—
4161 wood chips	530	—	0	20	—	510	464	46	—
4170 wood in the rough	1,862	0	1,699	—	—	163	142	21	—
4189 lumber	638	141	288	—	—	209	0	209	—
4190 forest products nec	0	0	0	—	—	—	—	—	—
Subtotal pulp and waste paper	358	26	332	—	—	—	—	—	—
4225 pulp & waste paper	358	26	332	—	—	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	469	0	1	467	—	—	—	—	—
4310 building stone	0	0	—	—	—	—	—	—	—
4322 limestone	468	—	0	467	—	—	—	—	—
4323 gypsum	0	0	0	—	—	—	—	—	—
4331 sand & gravel	1	0	1	—	—	—	—	—	—
Subtotal iron ore and scrap	61	—	57	—	—	4	4	—	—
4420 iron & steel scrap	61	—	57	—	—	4	4	—	—
Subtotal marine shells	0	0	—	—	—	—	—	—	—
4515 marine shells	0	0	—	—	—	—	—	—	—
Subtotal non-ferrous ores and scrap	1,412	1,319	92	—	0	—	—	—	—
4630 copper ore	23	—	23	—	—	—	—	—	—
4650 aluminum ore	1,315	1,314	1	—	—	—	—	—	—
4680 non-ferrous scrap	26	0	26	—	0	—	—	—	—
4690 non-ferrous ores nec	48	5	43	—	—	—	—	—	—
Subtotal sulphur, clay and salt	223	3	221	—	—	—	—	—	—
4741 sulphur, (dry)	0	—	0	—	—	—	—	—	—
4782 clay & refrac. mat.	223	3	221	—	—	—	—	—	—
Subtotal slag	0	—	0	—	—	—	—	—	—
4860 slag	0	—	0	—	—	—	—	—	—
Subtotal other non-metal. min.	414	378	36	—	—	—	—	—	—
4900 non-metal. min. nec	414	378	36	—	—	—	—	—	—
Total primary manufactured goods	3,037	2,219	776	0	0	42	0	42	—
Subtotal paper products	745	20	703	—	—	22	—	22	—
5110 newsprint	382	10	372	—	—	—	—	—	—
5120 paper & paperboard	334	9	325	—	—	—	—	—	—
5190 paper products nec	28	1	5	—	—	22	—	22	—
Subtotal lime, cement and glass	560	541	19	—	0	0	0	0	—
5220 cement & concrete	518	514	4	—	—	—	—	—	—
5240 glass & glass prod.	4	3	1	—	—	0	—	0	—
5290 misc. mineral prod.	38	24	14	—	0	0	0	—	—
Subtotal primary iron and steel products	1,592	1,577	3	—	—	13	—	13	—
5312 pig iron	51	50	1	—	—	—	—	—	—
5315 ferro alloys	49	49	0	—	—	—	—	—	—
5320 i&s primary forms	536	536	0	—	—	—	—	—	—

COLUMBIA RIVER ENTRANCE, OR AND WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Total	Domestic		Internal Through Upbound
		Through		Through			Coastwise	Through	
		Upbound	Downbnd	Upbound	Downbnd				
5330 i&s plates & sheets	634	631	2	—	—	0	—	0	—
5360 i&s bars & shapes	84	75	0	—	—	9	—	9	—
5370 i&s pipe & tube	70	66	0	—	—	3	—	3	—
5390 primary i&s nec	169	169	—	—	—	—	—	—	—
Subtotal primary non-ferrous metal products	43	35	8	—	0	—	—	—	—
5421 copper	2	2	0	—	—	—	—	—	—
5422 aluminum	3	0	2	—	—	—	—	—	—
5429 smelted prod. nec	3	1	2	—	—	—	—	—	—
5480 fab. metal products	35	32	3	—	0	—	—	—	—
Subtotal primary wood products	97	46	43	0	0	7	—	7	—
5540 primary wood prod.	97	46	43	0	0	7	—	7	—
Total food and farm products	17,365	83	17,215	1	0	66	—	—	66
Subtotal fish	72	3	2	1	—	66	—	—	66
6134 fish (not shellfish)	63	0	2	1	—	60	—	—	60
6136 shellfish	9	3	—	—	—	6	—	—	6
Subtotal grain	15,022	2	15,020	—	—	—	—	—	—
6241 wheat	10,875	—	10,875	—	—	—	—	—	—
6344 corn	3,589	0	3,589	—	—	—	—	—	—
6442 rice	3	2	1	—	—	—	—	—	—
6443 barley & rye	466	—	466	—	—	—	—	—	—
6445 oats	0	—	0	—	—	—	—	—	—
6447 sorghum grains	88	—	88	—	—	—	—	—	—
Subtotal oilseeds	506	25	480	—	—	—	—	—	—
6522 soybeans	420	—	420	—	—	—	—	—	—
6590 oilseeds nec	86	25	61	—	—	—	—	—	—
Subtotal vegetable products	289	8	281	—	—	—	—	—	—
6653 vegetable oils	3	2	1	—	—	—	—	—	—
6654 vegetables & prod.	286	6	279	—	—	—	—	—	—
Subtotal processed grain and animal feed	1,306	3	1,302	—	0	—	—	—	—
6746 wheat flour	22	—	22	—	—	—	—	—	—
6747 grain mill products	59	1	58	—	0	—	—	—	—
6781 hay & fodder	651	—	651	—	—	—	—	—	—
6782 animal feed, prep.	573	2	571	—	—	—	—	—	—
Subtotal other agricultural products	171	41	130	—	—	—	—	—	—
6811 meat, fresh, frozen	11	0	11	—	—	—	—	—	—
6817 meat, prepared	11	0	11	—	—	—	—	—	—
6822 dairy products	29	0	29	—	—	—	—	—	—
6835 fish, prepared	3	2	1	—	—	—	—	—	—
6838 tallow, animal oils	1	0	1	—	—	—	—	—	—
6839 animals & prod. nec	18	0	18	—	—	—	—	—	—
6856 bananas & plantains	0	0	—	—	—	—	—	—	—
6857 fruit & nuts nec	6	0	6	—	—	—	—	—	—
6858 fruit juices	29	12	16	—	—	—	—	—	—
6861 sugar	0	0	—	—	—	—	—	—	—
6871 coffee	1	1	0	—	—	—	—	—	—
6872 cocoa beans	0	0	0	—	—	—	—	—	—
6885 alcoholic beverages	18	16	2	—	—	—	—	—	—
6888 water & ice	2	2	—	—	—	—	—	—	—
6889 food products nec	16	2	14	—	—	—	—	—	—
6891 tobacco & products	0	—	0	—	—	—	—	—	—

COLUMBIA RIVER ENTRANCE, OR AND WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			Internal Through Upbound
		Through		Through		Total	Coastwise		
		Upbound	Downbnd	Upbound	Downbnd		Upbound	Downbnd	
6893 cotton	1	—	1	—	—	—	—	—	—
6894 natural fibers nec	0	0	—	—	—	—	—	—	—
6899 farm products nec	24	4	20	—	—	—	—	—	—
Total all manufactured equipment, machinery and products	789	699	85	0	0	4	1	4	—
7110 machinery (not elec)	42	22	18	0	0	1	1	0	—
7120 electrical machinery	38	31	7	—	0	—	—	—	—
7210 vehicles & parts	578	551	27	—	0	0	—	0	—
7220 aircraft & parts	0	0	0	—	0	—	—	—	—
7230 ships & boats	1	0	0	—	—	0	—	0	—
7300 ordnance & access.	0	—	0	—	—	—	—	—	—
7400 manufac. wood prod.	13	3	9	—	—	0	0	—	—
7500 textile products	15	11	3	—	0	—	—	—	—
7600 rubber & plastic pr.	14	12	2	—	—	—	—	—	—
7800 empty containers	3	—	—	—	—	3	—	3	—
7900 manufac. prod. nec	85	68	18	—	0	0	—	0	—
Total unknown or not elsewhere classified	18	1	16	0	—	—	—	—	—
9900 unknown or nec	18	1	16	0	—	—	—	—	—

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
1990	51,438	1993	51,243	1996	51,181	1999	50,733
1991	50,446	1994	50,912	1997	52,722		
1992	51,641	1995	57,124	1998	49,076		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports*	Through		Imports	Exports	Through	
				Upbound	Downbnd			Upbound	Downbnd
Total, all commodities	33,055	2,345	14,148	3,964	11,718	57	66	734	22
Total coal	12	—	12	—	—	—	—	—	—
1100 coal lignite	12	—	12	—	—	—	—	—	—
Total petroleum and petroleum products	1,951	191	534	886	9	27	66	237	—
Subtotal crude petroleum	256	—	—	256	—	—	—	—	—
2100 crude petroleum	256	—	—	256	—	—	—	—	—
Subtotal petroleum products	1,695	191	534	630	9	27	66	237	—
2211 gasoline	642	30	—	517	—	—	—	96	—
2221 kerosene	38	—	—	21	0	16	—	—	—
2330 distillate fuel oil	189	—	—	51	8	11	—	119	—
2340 residual fuel oil	37	—	—	15	—	—	—	23	—

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY (CONSOLIDATED REPORT)
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports*	Through		Imports	Exports	Through	
				Upbound	Downbnd			Upbound	Downbnd
2350 lube oil & greases	1	—	0	0	1	—	—	—	—
2410 petro. jelly & waxes	0	—	—	—	0	—	—	—	—
2429 naphtha & solvents	16	—	—	16	—	—	—	—	—
2430 asphalt, tar & pitch	172	161	1	10	—	—	—	—	—
2540 petroleum coke	600	—	533	—	0	—	66	—	—
Total chemicals and related products	4,912	144	719	217	3,771	9	0	30	22
Subtotal fertilizers	2,224	83	90	86	1,952	—	—	12	0
3110 nitrogenous fert.	190	68	4	80	26	—	—	12	—
3130 potassic fert.	2,013	—	86	—	1,926	—	—	—	0
3190 fert. & mixes nec	21	15	—	6	0	—	—	—	—
Subtotal other chemicals and related products	2,689	62	629	131	1,819	9	0	18	22
3211 acyclic hydrocarbons	0	0	—	—	—	—	—	—	—
3212 benzene & toluene	22	22	—	—	—	—	—	—	—
3219 other hydrocarbons	0	—	—	0	0	—	—	—	—
3220 alcohols	125	33	—	84	2	5	—	—	—
3230 carboxylic acids	5	—	0	1	5	—	—	—	—
3240 nitrogen func. comp.	1	0	0	0	1	—	0	—	—
3250 organo - inorg. comp.	1	0	—	1	0	—	—	—	0
3260 organic comp. nec	2	—	0	0	2	—	—	—	—
3272 sulphuric acid	1	—	—	1	0	—	—	—	—
3273 ammonia	12	—	—	0	—	—	—	12	—
3274 sodium hydroxide	37	3	9	—	—	3	—	—	22
3275 inorg. elem., oxides, & halogen salts	27	0	—	25	3	—	—	—	—
3276 metallic salts	2,390	2	614	5	1,769	—	—	—	—
3279 inorganic chem. nec	1	0	—	1	0	—	—	—	—
3281 radioactive material	0	—	—	0	—	—	—	—	—
3282 pigments & paints	2	0	0	0	1	—	—	—	—
3283 coloring mat. nec	0	0	—	0	0	—	—	—	—
3284 medicines	0	—	—	0	0	—	—	—	—
3285 perfumes & cleansers	6	—	0	2	4	—	—	—	0
3286 plastics	20	0	0	7	13	—	—	—	0
3291 pesticides	0	—	—	0	0	—	—	—	—
3292 starches, gluten, glue	2	—	—	0	1	—	—	—	—
3293 explosives	1	—	0	1	0	—	—	—	—
3297 chemical additives	1	—	1	0	0	—	—	—	—
3298 wood & resin chem.	26	—	4	—	15	—	—	6	—
3299 chem. products nec	6	—	0	3	3	—	0	—	—
Total crude materials, inedible except fuels	5,085	1,129	2,137	740	592	20	—	467	0
Subtotal forest products, wood and chips	2,152	9	1,712	133	277	20	—	—	—
4110 rubber & gums	1	—	—	1	—	—	—	—	—
4150 fuel wood	3	—	—	—	3	—	—	—	—
4161 wood chips	20	—	—	—	0	20	—	—	—
4170 wood in the rough	1,699	—	1,678	0	20	—	—	—	—
4189 lumber	429	9	34	132	254	—	—	—	—

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY (CONSOLIDATED REPORT)
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports*	Through		Imports	Exports	Through	
				Upbound	Downbnd			Upbound	Downbnd
4190 forest products nec	0	0	—	0	0	—	—	—	—
Subtotal pulp and waste paper	358	25	122	1	210	—	—	—	—
4225 pulp & waste paper	358	25	122	1	210	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	469	—	—	0	1	—	—	467	—
4310 building stone	0	—	—	0	—	—	—	—	—
4322 limestone	468	—	—	—	0	—	—	467	—
4323 gypsum	0	—	—	0	0	—	—	—	—
4331 sand & gravel	1	—	—	0	1	—	—	—	—
Subtotal iron ore and scrap	57	—	25	—	32	—	—	—	—
4420 iron & steel scrap	57	—	25	—	32	—	—	—	—
Subtotal marine shells	0	—	—	0	—	—	—	—	—
4515 marine shells	0	—	—	0	—	—	—	—	—
Subtotal non-ferrous ores and scrap	1,412	1,092	51	227	41	—	—	—	0
4630 copper ore	23	—	23	—	—	—	—	—	—
4650 aluminum ore	1,315	1,088	—	226	1	—	—	—	—
4680 non-ferrous scrap	26	0	0	0	26	—	—	—	0
4690 non-ferrous ores nec	48	4	28	1	15	—	—	—	—
Subtotal sulphur, clay and salt	223	3	212	—	9	—	—	—	—
4741 sulphur, (dry)	0	—	—	—	0	—	—	—	—
4782 clay & refrac. mat.	223	3	212	—	9	—	—	—	—
Subtotal slag	0	—	—	—	0	—	—	—	—
4860 slag	0	—	—	—	0	—	—	—	—
Subtotal other non-metal. min.	414	—	16	378	20	—	—	—	—
4900 non-metal. min. nec	414	—	16	378	20	—	—	—	—
Total primary manufactured goods	2,995	767	343	1,451	432	0	0	—	0
Subtotal paper products	722	10	341	10	361	—	—	—	—
5110 newsprint	382	8	335	2	37	—	—	—	—
5120 paper & paperboard	334	2	7	7	319	—	—	—	—
5190 paper products nec	6	0	—	1	5	—	—	—	—
Subtotal lime, cement and glass	560	0	0	541	19	—	0	—	—
5220 cement & concrete	518	—	—	514	4	—	—	—	—
5240 glass & glass prod.	4	0	—	3	1	—	—	—	—
5290 misc. mineral prod.	38	0	0	24	14	—	0	—	—
Subtotal primary iron and steel products	1,580	716	0	860	3	—	—	—	—
5312 pig iron	51	—	—	50	1	—	—	—	—
5315 ferro alloys	49	8	—	41	0	—	—	—	—
5320 i&s primary forms	536	87	—	448	0	—	—	—	—
5330 i&s plates & sheets	633	522	0	110	2	—	—	—	—
5360 i&s bars & shapes	75	39	—	36	0	—	—	—	—
5370 i&s pipe & tube	66	49	—	17	0	—	—	—	—
5390 primary i&s nec	169	11	—	158	—	—	—	—	—
Subtotal primary non-ferrous metal products	43	1	0	34	8	—	—	—	0
5421 copper	2	—	0	2	0	—	—	—	—
5422 aluminum	3	0	—	0	2	—	—	—	0
5429 smelted prod. nec	3	—	0	1	2	—	—	—	—
5480 fab. metal products	35	1	0	31	3	—	—	—	0

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY (CONSOLIDATED REPORT)
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports*	Through		Imports	Exports	Through	
				Upbound	Downbnd			Upbound	Downbnd
Subtotal primary wood products	90	40	2	7	41	0	---	---	0
5540 primary wood prod.	90	40	2	7	41	0	---	---	0
Total food and farm products	17,298	25	10,397	58	6,818	1	0	---	0
Subtotal fish	6	---	---	3	2	1	---	---	---
6134 fish (not shellfish)	3	---	---	0	2	1	---	---	---
6136 shellfish	3	---	---	3	---	---	---	---	---
Subtotal grain	15,022	0	9,505	2	5,515	---	---	---	---
6241 wheat	10,875	---	5,618	---	5,257	---	---	---	---
6344 corn	3,589	---	3,552	0	37	---	---	---	---
6442 rice	3	0	---	2	1	---	---	---	---
6443 barley & rye	466	---	248	---	219	---	---	---	---
6445 oats	0	---	---	---	0	---	---	---	---
6447 sorghum grains	88	---	88	---	---	---	---	---	---
Subtotal oilseeds	506	25	455	0	26	---	---	---	---
6522 soybeans	420	---	400	---	20	---	---	---	---
6590 oilseeds nec	86	25	54	0	6	---	---	---	---
Subtotal vegetable products	289	0	3	8	278	---	---	---	---
6653 vegetable oils	3	---	0	2	1	---	---	---	---
6654 vegetables & prod.	286	0	3	6	277	---	---	---	---
Subtotal processed grain and animal feed	1,306	0	434	3	869	---	0	---	0
6746 wheat flour	22	---	21	---	1	---	---	---	---
6747 grain mill products	59	0	---	1	58	---	0	---	0
6781 hay & fodder	651	---	8	---	643	---	---	---	---
6782 animal feed, prep.	573	---	405	2	166	---	---	---	---
Subtotal other agricultural products	171	0	1	41	129	---	---	---	---
6811 meat, fresh, frozen	11	---	---	0	11	---	---	---	---
6817 meat, prepared	11	---	---	0	11	---	---	---	---
6822 dairy products	29	---	---	0	29	---	---	---	---
6835 fish, prepared	3	0	---	2	1	---	---	---	---
6838 tallow, animal oils	1	---	---	0	1	---	---	---	---
6839 animals & prod. nec	18	0	0	0	17	---	---	---	---
6856 bananas & plantains	0	---	---	0	---	---	---	---	---
6857 fruit & nuts nec	6	---	0	0	6	---	---	---	---
6858 fruit juices	29	0	0	12	16	---	---	---	---
6861 sugar	0	---	---	0	---	---	---	---	---
6871 coffee	1	---	---	1	0	---	---	---	---
6872 cocoa beans	0	---	---	0	0	---	---	---	---
6885 alcoholic beverages	18	0	---	16	2	---	---	---	---
6888 water & ice	2	---	---	2	---	---	---	---	---
6889 food products nec	16	0	0	2	14	---	---	---	---
6891 tobacco & products	0	---	---	---	0	---	---	---	---
6893 cotton	1	---	---	---	1	---	---	---	---
6894 natural fibers nec	0	---	---	0	---	---	---	---	---
6899 farm products nec	24	---	0	4	20	---	---	---	---
Total all manufactured equipment, machinery and products	784	88	5	611	80	0	---	---	0
7110 machinery (not elec)	41	2	1	21	17	0	---	---	0
7120 electrical machinery	38	1	0	30	7	---	---	---	0
7210 vehicles & parts	578	83	1	468	26	---	---	---	0
7220 aircraft & parts	0	---	---	0	0	---	---	---	0

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY (CONSOLIDATED REPORT)
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports*	Through		Imports	Exports	Through	
				Upbound	Downbnd			Upbound	Downbnd
7230 ships & boats	0	0	0	0	0	—	—	—	—
7300 ordnance & access.	0	—	—	—	0	—	—	—	—
7400 manufac. wood prod.	13	0	1	3	8	—	—	—	—
7500 textile products	15	0	0	11	3	—	—	—	0
7600 rubber & plastic pr.	14	1	0	11	2	—	—	—	—
7900 manufac. prod. nec	85	1	1	67	17	—	—	—	0
Total unknown or not elsewhere classified	18	0	1	1	16	0	—	0	—
9900 unknown or nec	18	0	1	1	16	0	—	0	—
Ton-miles Foreign & Canadian (x1000)	2,929,953	190,234	1,110,637	391,965	1,157,080	1,650	4,172	71,937	2,278

Commodity	Total	Coastwise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Total, all commodities	5,658	687	338	4,445	187
Total petroleum and petroleum products	4,354	90	4	4,173	88
Subtotal crude petroleum	27	—	—	27	—
2100 crude petroleum	27	—	—	27	—
Subtotal petroleum products	4,327	90	4	4,146	88
2211 gasoline	2,703	45	—	2,657	1
2221 kerosene	18	—	—	18	—
2330 distillate fuel oil	1,010	33	—	953	23
2340 residual fuel oil	322	—	4	278	40
2350 lube oil & greases	111	2	—	108	—
2429 naphtha & solvents	9	—	—	—	9
2430 asphalt, tar & pitch	155	9	—	132	14
Total chemicals and related products	371	113	48	146	65
Subtotal fertilizers	150	—	45	104	2
3110 nitrogenous fert.	150	—	45	104	2
Subtotal other chemicals and related products	221	113	3	42	63
3212 benzene & toluene	74	74	—	—	—
3220 alcohols	15	—	—	2	13
3272 sulphuric acid	0	—	—	—	0
3273 ammonia	63	—	—	40	23
3274 sodium hydroxide	68	39	3	—	26
3286 plastics	1	—	—	—	1
Total crude materials, inedible except fuels	886	484	263	126	13
Subtotal forest products, wood and chips	882	484	263	122	13
4161 wood chips	510	453	46	11	—
4170 wood in the rough	163	31	19	111	1
4189 lumber	209	—	198	0	11
Subtotal iron ore and scrap	4	—	—	4	—
4420 iron & steel scrap	4	—	—	4	—
Total primary manufactured goods	42	—	20	0	22
Subtotal paper products	22	—	19	—	4
5190 paper products nec	22	—	19	—	4
Subtotal lime, cement and glass	0	—	—	0	0
5240 glass & glass prod.	0	—	—	—	0
5290 misc. mineral prod.	0	—	—	0	—
Subtotal primary iron and steel products	13	—	—	—	13
5330 i&s plates & sheets	0	—	—	—	0
5360 i&s bars & shapes	9	—	—	—	9
5370 i&s pipe & tube	3	—	—	—	3
Subtotal primary wood products	7	—	1	—	5
5540 primary wood prod.	7	—	1	—	5
Total all manufactured equipment, machinery and products	4	1	3	0	0
7110 machinery (not elec)	1	1	—	0	0
7210 vehicles & parts	0	—	—	—	0
7230 ships & boats	0	—	—	—	0
7400 manufac. wood prod.	0	—	—	0	—
7800 empty containers	3	—	3	—	—

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY (CONSOLIDATED REPORT)
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Total	Coastwise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
7900 manufac. prod. nec	0	—	—	—	0
Ton-miles (x1000) Coastwise	518,620	41,269	28,031	430,956	18,364

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	12,020	759	1,728	266	1,706	2,729	2,429	535	1,869
Total petroleum and petroleum products	2,713	515	89	153	198	1,624	26	108	—
Subtotal petroleum products	2,713	515	89	153	198	1,624	26	108	—
2211 gasoline	1,372	2	—	67	161	1,125	—	17	—
2330 distillate fuel oil	1,001	331	4	86	32	457	0	91	—
2340 residual fuel oil	339	181	85	0	5	42	26	0	—
2350 lube oil & greases	1	1	0	—	—	—	0	0	—
Total chemicals and related products	173	39	28	50	5	12	0	19	20
Subtotal fertilizers	95	7	12	37	—	—	—	17	20
3110 nitrogenous fert.	7	—	3	3	—	—	—	—	1
3190 fert. & mixes nec	88	7	10	34	—	—	—	17	20
Subtotal other chemicals and related products	78	32	15	13	5	12	0	2	—
3273 ammonia	29	—	—	13	5	12	—	—	—
3274 sodium hydroxide	49	32	15	—	—	—	—	2	—
3286 plastics	0	—	—	—	0	—	0	—	—
Total crude materials, inedible except fuels	3,432	93	424	60	447	1,074	30	195	1,110
Subtotal forest products, wood and chips	1,104	—	414	5	20	0	2	16	647
4150 fuel wood	1	—	1	—	—	—	—	—	—
4161 wood chips	792	—	404	—	—	—	2	—	387
4170 wood in the rough	309	—	9	5	19	—	0	16	260
4189 lumber	1	—	—	—	0	0	—	—	—
Subtotal pulp and waste paper	14	—	10	—	—	—	4	—	—
4225 pulp & waste paper	14	—	10	—	—	—	4	—	—
Subtotal soil, sand, gravel, rock and stone	2,299	93	—	55	428	1,074	8	179	463
4331 sand & gravel	2,299	93	—	55	428	1,074	8	179	463
Subtotal iron ore and scrap	11	—	—	—	—	—	11	—	—
4420 iron & steel scrap	11	—	—	—	—	—	11	—	—
Subtotal sulphur, clay and salt	3	—	—	—	—	—	3	—	—
4782 clay & refrac. mat.	3	—	—	—	—	—	3	—	—
Subtotal other non-metal. min.	1	—	—	—	—	—	1	—	—
4900 non-metal. min. nec	1	—	—	—	—	—	1	—	—

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY (CONSOLIDATED REPORT)
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total primary manufactured goods	84	0	---	---	1	2	70	0	12
Subtotal paper products	70	---	---	---	---	---	70	---	---
5190 paper products nec	70	---	---	---	---	---	70	---	---
Subtotal lime, cement and glass	0	0	---	---	---	0	---	---	---
5290 misc. mineral prod.	0	0	---	---	---	0	---	---	---
Subtotal primary iron and steel products	1	0	---	---	1	---	---	0	---
5360 i&s bars & shapes	1	---	---	---	1	---	---	0	---
5370 i&s pipe & tube	0	0	---	---	---	---	---	---	---
Subtotal primary non-ferrous metal products	13	0	---	---	0	1	0	---	12
5422 aluminum	12	---	---	---	---	---	---	---	12
5480 fab. metal products	2	0	---	---	0	1	0	---	---
Total food and farm products	5,073	63	1,187	3	859	1	2,275	---	686
Subtotal fish	60	60	---	---	---	1	---	---	---
6134 fish (not shellfish)	55	55	---	---	---	0	---	---	---
6136 shellfish	5	5	---	---	---	0	---	---	---
Subtotal grain	4,846	3	1,187	3	725	---	2,241	---	686
6241 wheat	4,550	3	1,139	3	685	---	2,050	---	669
6344 corn	11	0	---	---	11	---	---	---	---
6443 barley & rye	286	---	48	---	30	---	191	---	17
Subtotal vegetable products	51	---	---	---	18	0	33	---	---
6654 vegetables & prod.	51	---	---	---	18	0	33	---	---
Subtotal processed grain and animal feed	80	---	---	---	80	---	---	---	---
6747 grain mill products	0	---	---	---	0	---	---	---	---
6781 hay & fodder	72	---	---	---	72	---	---	---	---
6782 animal feed, prep.	8	---	---	---	8	---	---	---	---
Subtotal other agricultural products	35	---	---	---	35	---	0	---	---
6822 dairy products	28	---	---	---	28	---	---	---	---
6839 animals & prod. nec	3	---	---	---	3	---	---	---	---
6889 food products nec	0	---	---	---	0	---	0	---	---
6899 farm products nec	4	---	---	---	4	---	---	---	---
Total all manufactured equipment, machinery and products	364	48	0	0	196	17	28	39	35
7800 empty containers	317	30	0	---	195	16	2	39	35
7900 manufac. prod. nec	47	19	0	0	1	0	26	---	---
Total waste and scrap nec	181	---	---	---	---	---	---	175	6
8900 waste and scrap nec	181	---	---	---	---	---	---	175	6
Ton-miles Internal (x1000)	1,889,467	75,699	381,003	36,275	198,129	372,495	531,638	51,201	243,028
Tons All Traffic (x1000)			50,733						
Ton-miles All Traffic (x1000)			5,338,040						

*Includes 152 (x1000) tons of foreign inbound in-transits; Includes 265 (x1000) tons of foreign 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
1990	51,479	1993	50,566	1996	52,559	1999	50,905
1991	50,622	1994	50,703	1997	53,098		
1992	50,890	1995	58,446	1998	49,543		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign				Canadian		
		Imports*	Exports*	Through		Imports	Exports	Through Downbnd
				Upbound	Downbnd			
Total, all commodities	33,055	5,443	23,688	866	2,178	791	66	22
Total coal	12	—	12	—	—	—	—	—
1100 coal lignite	12	—	12	—	—	—	—	—
Total petroleum and petroleum products	1,951	938	535	138	9	265	66	—
Subtotal crude petroleum	256	256	—	—	—	—	—	—
2100 crude petroleum	256	256	—	—	—	—	—	—
Subtotal petroleum products	1,695	682	535	138	9	265	66	—
2211 gasoline	642	449	—	98	—	96	—	—
2221 kerosene	38	21	—	—	0	16	—	—
2330 distillate fuel oil	189	51	0	—	7	130	—	—
2340 residual fuel oil	37	—	—	15	—	23	—	—
2350 lube oil & greases	1	—	0	0	1	—	—	—
2410 petro. jelly & waxes	0	—	—	—	0	—	—	—
2429 naphtha & solvents	16	—	—	16	—	—	—	—
2430 asphalt, tar & pitch	172	161	1	10	—	—	—	—
2540 petroleum coke	600	—	533	—	0	—	66	—
Total chemicals and related products	4,912	338	4,444	24	46	38	0	22
Subtotal fertilizers	2,224	169	2,042	0	0	12	0	—
3110 nitrogenous fert.	190	148	30	0	0	12	—	—
3130 potassic fert.	2,013	—	2,013	—	—	—	0	—
3190 fert. & mixes nec	21	21	0	0	0	—	—	—
Subtotal other chemicals and related products	2,689	169	2,402	24	46	26	0	22
3211 acyclic hydrocarbons	0	0	—	—	—	—	—	—
3212 benzene & toluene	22	22	—	—	—	—	—	—
3219 other hydrocarbons	0	—	—	0	0	—	—	—
3220 alcohols	125	116	0	2	2	5	—	—
3230 carboxylic acids	5	0	0	0	4	—	—	—
3240 nitrogen func. comp.	1	0	0	0	1	—	0	—
3250 organo - inorg. comp.	1	0	—	0	0	—	—	0
3260 organic comp. nec	2	0	0	0	2	—	—	—
3272 sulphuric acid	1	0	0	1	0	—	—	—
3273 ammonia	12	0	—	0	—	12	—	—
3274 sodium hydroxide	37	3	9	—	—	3	—	22
3275 inorg. elem. oxides, & halogen salts	27	21	0	4	2	—	—	—
3276 metallic salts	2,390	4	2,383	3	1	—	—	—
3279 inorganic chem. nec	1	0	0	1	0	—	—	—
3281 radioactive material	0	—	—	0	—	—	—	—
3282 pigments & paints	2	0	0	0	1	—	—	—
3283 coloring mat. nec	0	0	0	0	0	—	—	—
3284 medicines	0	—	—	0	0	—	—	—
3285 perfumes & cleansers	6	0	1	2	3	—	—	0
3286 plastics	20	1	2	6	11	—	—	0
3291 pesticides	0	—	—	0	0	—	—	—
3292 starches, gluten, glue	2	0	0	0	1	—	—	—
3293 explosives	1	0	0	0	0	—	—	—
3297 chemical additives	1	—	1	0	0	—	—	—
3298 wood & resin chem.	26	—	4	—	15	6	—	—
3299 chem. products nec	6	0	0	2	3	—	0	—
Total crude materials, inedible except fuels	5,085	1,801	2,227	68	502	488	—	0
Subtotal forest products, wood and chips	2,152	75	1,761	67	228	20	—	—
4110 rubber & gums	1	0	—	1	—	—	—	—
4150 fuel wood	3	—	—	—	3	—	—	—
4161 wood chips	20	—	—	—	0	20	—	—
4170 wood in the rough	1,699	0	1,684	0	15	—	—	—
4189 lumber	429	75	77	66	211	—	—	—
4190 forest products nec	0	0	0	0	0	—	—	—

COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WA AND PORTLAND, OR
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian		
		Imports*	Exports*	Through		Imports	Exports	Through Downbnd
				Upbound	Downbnd			
Subtotal pulp and waste paper	358	26	143	---	189	---	---	---
4225 pulp & waste paper	358	26	143	---	189	---	---	---
Subtotal soil, sand, gravel, rock and stone	469	0	0	0	1	467	---	---
4310 building stone	0	---	---	0	---	---	---	---
4322 limestone	468	---	---	---	0	467	---	---
4323 gypsum	0	---	---	0	0	---	---	---
4331 sand & gravel	1	0	0	0	1	---	---	---
Subtotal iron ore and scrap	57	---	26	---	31	---	---	---
4420 iron & steel scrap	57	---	26	---	31	---	---	---
Subtotal marine shells	0	---	---	0	---	---	---	---
4515 marine shells	0	---	---	0	---	---	---	---
Subtotal non-ferrous ores and scrap	1,412	1,318	68	1	25	---	---	0
4630 copper ore	23	---	23	---	---	---	---	---
4650 aluminum ore	1,315	1,314	0	---	1	---	---	---
4680 non-ferrous scrap	26	0	2	0	24	---	---	0
4690 non-ferrous ores nec	48	4	42	1	0	---	---	---
Subtotal sulphur, clay and salt	223	3	213	---	8	---	---	---
4741 sulphur, (dry)	0	---	---	---	0	---	---	---
4782 clay & refrac. mat.	223	3	213	---	8	---	---	---
Subtotal slag	0	---	---	---	0	---	---	---
4860 slag	0	---	---	---	0	---	---	---
Subtotal other non-metal. min.	414	378	16	0	20	---	---	---
4900 non-metal. min. nec	414	378	16	0	20	---	---	---
Total primary manufactured goods	2,995	1,981	381	238	394	0	0	0
Subtotal paper products	722	12	372	8	330	---	---	---
5110 newsprint	382	8	336	2	36	---	---	---
5120 paper & paperboard	334	3	34	6	291	---	---	---
5190 paper products nec	6	0	2	1	3	---	---	---
Subtotal lime, cement and glass	560	520	1	21	18	---	0	---
5220 cement & concrete	518	514	---	0	4	---	---	---
5240 glass & glass prod.	4	1	0	2	1	---	---	---
5290 misc. mineral prod.	38	5	1	19	13	---	0	---
Subtotal primary iron and steel products	1,580	1,403	0	174	3	---	---	---
5312 pig iron	51	50	0	0	0	---	---	---
5315 ferro alloys	49	49	0	0	0	---	---	---
5320 i&s primary forms	536	373	0	163	---	---	---	---
5330 i&s plates & sheets	633	627	0	5	2	---	---	---
5360 i&s bars & shapes	75	75	0	0	0	---	---	---
5370 i&s pipe & tube	66	62	0	4	0	---	---	---
5390 primary i&s nec	169	167	---	2	---	---	---	---
Subtotal primary non-ferrous metal products	43	5	1	30	6	---	---	0
5421 copper	2	1	0	1	0	---	---	---
5422 aluminum	3	0	0	0	2	---	---	0
5429 smelted prod. nec	3	0	0	1	2	---	---	---
5480 fab. metal products	35	3	1	29	2	---	---	0
Subtotal primary wood products	90	42	7	4	37	0	---	0
5540 primary wood prod.	90	42	7	4	37	0	---	0
Total food and farm products	17,298	45	16,061	38	1,154	1	0	0
Subtotal fish	6	0	0	3	2	1	---	---
6134 fish (not shellfish)	3	0	0	0	2	1	---	---
6136 shellfish	3	0	---	3	---	---	---	---
Subtotal grain	15,022	0	14,897	2	123	---	---	---
6241 wheat	10,875	---	10,767	---	108	---	---	---
6344 corn	3,589	---	3,576	0	14	---	---	---
6442 rice	3	0	---	2	1	---	---	---
6443 barley & rye	466	---	466	---	0	---	---	---
6445 oats	0	---	0	---	0	---	---	---
6447 sorghum grains	88	---	88	---	---	---	---	---
Subtotal oilseeds	506	25	477	0	4	---	---	---
6522 soybeans	420	---	417	---	3	---	---	---
6590 oilseeds nec	86	25	60	0	1	---	---	---
Subtotal vegetable products	289	2	36	6	244	---	---	---
6653 vegetable oils	3	1	0	1	1	---	---	---
6654 vegetables & prod.	286	2	36	5	244	---	---	---
Subtotal processed grain and animal feed	1,306	2	637	1	665	---	0	0
6746 wheat flour	22	---	22	---	0	---	---	---
6747 grain mill products	59	0	5	1	53	---	0	0
6781 hay & fodder	651	---	88	---	564	---	---	---
6782 animal feed, prep.	573	2	523	1	48	---	---	---

COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WA AND PORTLAND, OR
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian		
		Imports*	Exports*	Through		Imports	Exports	Through
				Upbound	Downbnd			Downbnd
Subtotal other agricultural products	171	16	13	26	116	---	---	---
6811 meat, fresh, frozen	11	---	1	0	9	---	---	---
6817 meat, prepared	11	---	0	0	11	---	---	---
6822 dairy products	29	---	1	0	28	---	---	---
6835 fish, prepared	3	0	---	2	1	---	---	---
6838 tallow, animal oils	1	0	---	---	1	---	---	---
6839 animals & prod. nec	18	0	2	0	16	---	---	---
6856 bananas & plantains	0	0	---	0	---	---	---	---
6857 fruit & nuts nec	6	0	1	0	5	---	---	---
6858 fruit juices	29	3	2	10	14	---	---	---
6861 sugar	0	0	---	---	---	---	---	---
6871 coffee	1	0	0	1	0	---	---	---
6872 cocoa beans	0	0	---	0	0	---	---	---
6885 alcoholic beverages	18	8	0	8	2	---	---	---
6888 water & ice	2	2	---	1	---	---	---	---
6889 food products nec	16	1	2	2	12	---	---	---
6891 tobacco & products	0	---	---	---	0	---	---	---
6893 cotton	1	---	0	---	1	---	---	---
6894 natural fibers nec	0	0	---	0	---	---	---	---
6899 farm products nec	24	3	3	1	17	---	---	---
Total all manufactured equipment, machinery and products	784	339	26	360	59	0	0	0
7110 machinery (not elec)	41	5	6	17	12	0	---	0
7120 electrical machinery	38	8	3	23	4	---	0	0
7210 vehicles & parts	578	316	4	234	23	---	---	0
7220 aircraft & parts	0	0	0	0	0	---	0	---
7230 ships & boats	0	0	0	0	0	---	---	---
7300 ordnance & access.	0	---	---	---	0	---	---	---
7400 manufac. wood prod.	13	1	2	3	7	---	---	---
7500 textile products	15	1	1	10	2	---	---	0
7600 rubber & plastic pr.	14	1	1	10	1	---	---	---
7900 manufac. prod. nec	85	6	9	62	8	---	---	0
Total unknown or not elsewhere classified	18	0	2	1	14	0	---	---
9900 unknown or nec	18	0	2	1	14	0	---	---
Ton-miles (x1000) Foreign & Canadian	3,077,045	527,900	2,150,499	88,375	222,159	81,662	4,177	2,273

Commodity	Total	Coastwise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Total, all commodities	5,658	4,995	494	138	32
Total petroleum and petroleum products	4,354	4,247	92	15	---
Subtotal crude petroleum	27	27	---	---	---
2100 crude petroleum	27	27	---	---	---
Subtotal petroleum products	4,327	4,221	92	15	---
2211 gasoline	2,703	2,698	1	4	---
2221 kerosene	18	18	---	---	---
2330 distillate fuel oil	1,010	975	23	11	---
2340 residual fuel oil	322	278	44	---	---
2350 lube oil & greases	111	111	---	---	---
2429 naphtha & solvents	9	---	9	---	---
2430 asphalt, tar & pitch	155	140	14	---	---
Total chemicals and related products	371	259	97	---	15
Subtotal fertilizers	150	104	31	---	15
3110 nitrogenous fert.	150	104	31	---	15
Subtotal other chemicals and related products	221	155	66	---	---
3212 benzene & toluene	74	74	---	---	---
3220 alcohols	15	2	13	---	---
3272 sulphuric acid	0	---	0	---	---
3273 ammonia	63	40	23	---	---
3274 sodium hydroxide	68	39	29	---	---
3286 plastics	1	---	1	---	---
Total crude materials, inedible except fuels	886	487	263	122	13
Subtotal forest products, wood and chips	882	484	263	122	13
4161 wood chips	510	453	46	11	---
4170 wood in the rough	163	31	8	111	13
4189 lumber	209	0	209	---	---
Subtotal iron ore and scrap	4	4	---	---	---
4420 iron & steel scrap	4	4	---	---	---

COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WA AND PORTLAND, OR
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Coastwise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Total primary manufactured goods	42	0	42	---	---
Subtotal paper products	22	---	22	---	---
5190 paper products nec	22	---	22	---	---
Subtotal lime, cement and glass	0	0	0	---	---
5240 glass & glass prod.	0	---	0	---	---
5290 misc. mineral prod.	0	0	---	---	---
Subtotal primary iron and steel products	13	---	13	---	---
5330 i&s plates & sheets	0	---	0	---	---
5360 i&s bars & shapes	9	---	9	---	---
5370 i&s pipe & tube	3	---	3	---	---
Subtotal primary wood products	7	---	7	---	---
5540 primary wood prod.	7	---	7	---	---
Total all manufactured equipment, machinery and products	4	1	0	---	3
7110 machinery (not elec)	1	1	0	---	---
7210 vehicles & parts	0	---	0	---	---
7230 ships & boats	0	---	0	---	---
7400 manufac. wood prod.	0	0	---	---	---
7800 empty containers	3	---	---	---	3
7900 manufac. prod. nec	0	---	0	---	---
Ton-miles (x1000)	550,168	498,086	39,726	9,110	3,245
Coastwise					

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	12,192	4,163	3,177	452	1,999	204	519	1,328	350
Total petroleum and petroleum products	2,991	1	---	222	1,944	---	---	737	87
Subtotal petroleum products	2,991	1	---	222	1,944	---	---	737	87
2211 gasoline	1,458	---	---	67	1,126	---	---	265	---
2330 distillate fuel oil	1,025	---	---	155	749	---	---	120	2
2340 residual fuel oil	506	1	---	---	69	---	---	351	85
2350 lube oil & greases	2	---	---	---	0	---	---	1	0
Total chemicals and related products	107	---	8	12	51	---	0	22	15
Subtotal fertilizers	47	---	8	10	7	---	---	22	---
3110 nitrogenous fert.	1	---	1	---	---	---	---	---	---
3190 fert. & mixes nec	46	---	7	10	7	---	---	22	---
Subtotal other chemicals and related products	60	---	---	2	43	---	0	---	15
3273 ammonia	12	---	---	---	12	---	---	---	---
3274 sodium hydroxide	49	---	---	2	32	---	---	---	15
3286 plastics	0	---	---	---	---	---	0	---	---
Total crude materials, inedible except fuels	3,377	1,153	1,244	5	4	137	39	547	248
Subtotal forest products, wood and chips	834	0	777	5	4	0	17	10	19
4150 fuel wood	1	---	1	---	---	---	---	---	---
4161 wood chips	616	---	603	---	---	---	2	---	11
4170 wood in the rough	216	---	173	5	4	---	15	10	8
4189 lumber	1	0	---	---	---	0	---	---	---
Subtotal pulp and waste paper	14	1	10	---	---	---	3	---	---
4225 pulp & waste paper	14	1	10	---	---	---	3	---	---
Subtotal soil, sand, gravel, rock and stone	2,513	1,147	457	---	---	137	8	536	229
4331 sand & gravel	2,513	1,147	457	---	---	137	8	536	229

COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WA AND PORTLAND, OR
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Subtotal iron ore and scrap	11	4	---	---	---	---	7	---	---
4420 iron & steel scrap	11	4	---	---	---	---	7	---	---
Subtotal sulphur, clay and salt	3	---	---	---	---	---	3	---	---
4782 clay & refrac. mat.	3	---	---	---	---	---	3	---	---
Subtotal other non-metal. min.	1	---	---	---	---	---	1	---	---
4900 non-metal. min. nec	1	---	---	---	---	---	1	---	---
Total primary manufactured goods	84	1	12	0	---	2	70	0	---
Subtotal paper products	70	---	---	---	---	---	70	---	---
5190 paper products nec	70	---	---	---	---	---	70	---	---
Subtotal lime, cement and glass	0	---	---	---	---	0	---	---	---
5290 misc. mineral prod.	0	---	---	---	---	0	---	---	---
Subtotal primary iron and steel products	1	1	---	0	---	---	---	0	---
5360 i&s bars & shapes	1	1	---	0	---	---	---	---	---
5370 i&s pipe & tube	0	---	---	---	---	---	---	0	---
Subtotal primary non-ferrous metal products	13	---	12	---	---	1	0	0	---
5422 aluminum	12	---	12	---	---	---	---	---	---
5480 fab. metal products	2	---	---	---	---	1	0	0	---
Total food and farm products	5,088	3,008	1,873	---	---	1	185	22	---
Subtotal fish	60	59	---	---	---	1	---	---	---
6134 fish (not shellfish)	55	54	---	---	---	0	---	---	---
6136 shellfish	5	5	---	---	---	1	---	---	---
Subtotal grain	4,861	2,949	1,873	---	---	0	18	22	---
6241 wheat	4,564	2,727	1,808	---	---	---	9	20	---
6344 corn	11	7	---	---	---	0	3	---	---
6443 barley & rye	287	214	65	---	---	---	7	1	---
Subtotal vegetable products	51	---	---	---	---	0	51	---	---
6654 vegetables & prod.	51	---	---	---	---	0	51	---	---
Subtotal processed grain and animal feed	80	---	---	---	---	---	80	---	---
6747 grain mill products	0	---	---	---	---	---	0	---	---
6781 hay & fodder	72	---	---	---	---	---	72	---	---
6782 animal feed, prep.	8	---	---	---	---	---	8	---	---
Subtotal other agricultural products	35	---	---	---	---	---	35	---	---
6822 dairy products	28	---	---	---	---	---	28	---	---
6839 animals & prod. nec	3	---	---	---	---	---	3	---	---
6889 food products nec	0	---	---	---	---	---	0	---	---
6899 farm products nec	4	---	---	---	---	---	4	---	---
Total all manufactured equipment, machinery and products	363	---	35	38	0	65	225	0	0
7800 empty containers	316	---	35	38	0	46	197	0	0
7900 manufac. prod. nec	47	---	---	---	---	19	28	---	---

COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WA AND PORTLAND, OR
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total waste and scrap nec	181	---	6	175	---	---	---	---	---
8900 waste and scrap nec	181	---	6	175	---	---	---	---	---
Ton-miles Internal (x1000)	162,716	60,258	55,945	410	24,215	2,420	543	12,504	6,422
Tons All Traffic (x1000)			50,905						
Ton-miles All Traffic (x1000)			3,789,928						

*Includes 192 (x1000) tons of foreign inbound in-transits; Includes 771 (x1000) tons of foreign 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
1990	966	1993	412	1996	324	1999	288
1991	660	1994	1,354	1997	298		
1992	721	1995	985	1998	306		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		Internal
		Imports	Exports		Imports	Total	
				Shipments		Receipts	
Total, all commodities	288	31	134	38	86	6	80
Total petroleum and petroleum products	70	22	---	27	21	---	21
Subtotal petroleum products	70	22	---	27	21	---	21
2211 gasoline	22	22	---	---	---	---	---
2221 kerosene	16	---	---	16	---	---	---
2330 distillate fuel oil	13	---	---	11	2	---	2
2340 residual fuel oil	19	---	---	---	19	---	19
2350 lube oil & greases	0	---	---	---	0	---	0
Total chemicals and related products	8	8	---	---	---	---	---
Subtotal other chemicals and related products	8	8	---	---	---	---	---
3220 alcohols	8	8	---	---	---	---	---
Total crude materials, inedible except fuels	16	---	---	10	6	6	---
Subtotal forest products, wood and chips	16	---	---	10	6	6	---
4161 wood chips	10	---	---	10	---	---	---
4170 wood in the rough	6	---	---	---	6	6	---
Total food and farm products	194	---	134	1	59	---	59
Subtotal fish	60	---	---	1	59	---	59
6134 fish (not shellfish)	55	---	---	1	54	---	54
6136 shellfish	5	---	---	---	5	---	5
Subtotal grain	108	---	108	---	---	---	---
6241 wheat	67	---	67	---	---	---	---
6344 corn	42	---	42	---	---	---	---
Subtotal oilseeds	25	---	25	---	---	---	---
6522 soybeans	25	---	25	---	---	---	---
Subtotal vegetable products	0	---	0	---	---	---	---
6654 vegetables & prod.	0	---	0	---	---	---	---
Total all manufactured equipment, machinery and products	0	0	0	---	---	---	---
7120 electrical machinery	0	---	0	---	---	---	---
7500 textile products	0	0	---	---	---	---	---
7900 manufac. prod. nec	0	0	0	---	---	---	---
Total unknown or not elsewhere classified	0	---	0	---	---	---	---
9900 unknown or nec	0	---	0	---	---	---	---

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
1990	875	1993	945	1996	882	1999	332
1991	883	1994	901	1997	955		
1992	987	1995	1,003	1998	477		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Canadian Imports	Domestic				
			Total	Coastwise		Internal	
				Receipts	Shipments	Receipts	Shipments
Total, all commodities	332	10	322	243	24	46	9
Total petroleum and petroleum products	3	---	3	---	---	3	---
Subtotal petroleum products	3	---	3	---	---	3	---
2330 distillate fuel oil	0	---	0	---	---	0	---
2340 residual fuel oil	3	---	3	---	---	3	---
Total chemicals and related products	9	---	9	---	4	5	---
Subtotal fertilizers	9	---	9	---	4	5	---
3110 nitrogenous fert.	5	---	5	---	4	1	---
3190 fert. & mixes nec	4	---	4	---	---	4	---
Total crude materials, inedible except fuels	318	10	307	243	21	35	9
Subtotal forest products, wood and chips	318	10	307	243	21	35	9
4150 fuel wood	1	---	1	---	---	1	---
4161 wood chips	282	10	272	218	21	24	8
4170 wood in the rough	34	---	34	25	---	10	0
Total food and farm products	3	---	3	---	---	3	---
Subtotal grain	3	---	3	---	---	3	---
6241 wheat	3	---	3	---	---	3	---

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
1990	8,681	1993	5,476	1996	5,163	1999	3,984
1991	7,806	1994	6,442	1997	5,540		
1992	6,309	1995	6,167	1998	4,279		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports
Total, all commodities	2,924	348	2,507	3	66
Total coal	12	---	12	---	---
1100 coal lignite	12	---	12	---	---
Total petroleum and petroleum products	745	161	518	---	66
Subtotal petroleum products	745	161	518	---	66
2350 lube oil & greases	0	---	0	---	---
2430 asphalt, tar & pitch	162	161	1	---	---
2540 petroleum coke	583	---	517	---	66
Total chemicals and related products	298	30	265	3	---
Subtotal fertilizers	77	27	50	---	---
3110 nitrogenous fert.	27	27	---	---	---
3130 potassic fert.	50	---	50	---	---
Subtotal other chemicals and related products	221	3	215	3	---
3240 nitrogen func. comp.	0	---	0	---	---
3260 organic comp. nec	0	---	0	---	---
3274 sodium hydroxide	15	3	9	3	---
3276 metallic salts	205	---	205	---	---
3285 perfumes & cleansers	0	---	0	---	---
3293 explosives	0	---	0	---	---
3297 chemical additives	0	---	0	---	---
3298 wood & resin chem.	1	---	1	---	---
3299 chem. products nec	0	---	0	---	---

PORT OF LONGVIEW, WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports
Total crude materials, inedible except fuels	1,059	99	960	---	---
Subtotal forest products, wood and chips	892	0	892	---	---
4170 wood in the rough	880	---	880	---	---
4189 lumber	12	0	12	---	---
Subtotal pulp and waste paper	12	---	12	---	---
4225 pulp & waste paper	12	---	12	---	---
Subtotal iron ore and scrap	1	---	1	---	---
4420 iron & steel scrap	1	---	1	---	---
Subtotal non-ferrous ores and scrap	97	97	0	---	---
4650 aluminum ore	92	92	---	---	---
4680 non-ferrous scrap	0	---	0	---	---
4690 non-ferrous ores nec	4	4	---	---	---
Subtotal sulphur, clay and salt	42	3	40	---	---
4782 clay & refrac. mat.	42	3	40	---	---
Subtotal other non-metal. min.	16	---	16	---	---
4900 non-metal. min. nec	16	---	16	---	---
Total primary manufactured goods	293	31	262	0	---
Subtotal paper products	269	8	261	---	---
5110 newsprint	263	8	255	---	---
5120 paper & paperboard	6	---	6	---	---
Subtotal primary iron and steel products	23	23	0	---	---
5320 i&s primary forms	11	11	---	---	---
5330 i&s plates & sheets	8	8	0	---	---
5360 i&s bars & shapes	2	2	---	---	---
5370 i&s pipe & tube	1	1	---	---	---
5390 primary i&s nec	0	0	---	---	---
Subtotal primary non-ferrous metal products	0	0	0	---	---
5422 aluminum	0	0	---	---	---
5429 smelted prod. nec	0	---	0	---	---
5480 fab. metal products	0	0	---	---	---
Subtotal primary wood products	1	---	1	0	---
5540 primary wood prod.	1	---	1	0	---
Total food and farm products	514	25	489	---	---
Subtotal grain	191	---	191	---	---
6241 wheat	185	---	185	---	---
6344 corn	6	---	6	---	---
Subtotal oilseeds	80	25	55	---	---
6522 soybeans	9	---	9	---	---
6590 oilseeds nec	71	25	46	---	---
Subtotal vegetable products	1	---	1	---	---
6654 vegetables & prod.	1	---	1	---	---
Subtotal processed grain and animal feed	242	---	242	---	---
6781 hay & fodder	5	---	5	---	---
6782 animal feed, prep.	237	---	237	---	---
Subtotal other agricultural products	0	0	0	---	---
6839 animals & prod. nec	0	0	---	---	---
6858 fruit juices	0	---	0	---	---
6889 food products nec	0	---	0	---	---
Total all manufactured equipment, machinery and products	3	2	1	0	---
7110 machinery (not elec)	0	0	0	0	---
7120 electrical machinery	0	0	0	---	---
7210 vehicles & parts	2	2	1	---	---
7400 manufac. wood prod.	0	---	0	---	---
7500 textile products	0	---	0	---	---
7600 rubber & plastic pr.	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	Intraport
Total, all commodities	1,060	233	67	752	6	2
Total petroleum and petroleum products	50	---	---	50	0	0
Subtotal petroleum products	50	---	---	50	0	0
2330 distillate fuel oil	0	---	---	0	---	---
2340 residual fuel oil	50	---	---	50	0	---
2350 lube oil & greases	0	---	---	0	---	0
Total chemicals and related products	37	33	---	4	---	---
Subtotal other chemicals and related products	37	33	---	4	---	---
3274 sodium hydroxide	37	33	---	4	---	---

PORT OF LONGVIEW, WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total crude materials, inedible except fuels	943	200	49	687	5	2
Subtotal forest products, wood and chips	943	200	49	687	5	2
4161 wood chips	743	200	—	543	—	—
4170 wood in the rough	150	—	—	143	5	2
4189 lumber	49	—	49	—	—	—
Total primary manufactured goods	30	—	18	12	—	—
Subtotal paper products	16	—	16	—	—	—
5190 paper products nec	16	—	16	—	—	—
Subtotal primary non-ferrous metal products	12	—	—	12	—	—
5422 aluminum	12	—	—	12	—	—
Subtotal primary wood products	1	—	1	—	—	—
5540 primary wood prod.	1	—	1	—	—	—
Total food and farm products	0	—	—	0	—	—
Subtotal fish	0	—	—	0	—	—
6136 shellfish	0	—	—	0	—	—
Total all manufactured equipment, machinery and products	0	—	—	0	0	—
7800 empty containers	0	—	—	0	0	—

*Includes 0 (x1000) tons of foreign inbound in-transits; Includes 8 (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
1990	6,255	1993	6,501	1996	8,223	1999	6,956
1991	5,881	1994	5,351	1997	8,301		
1992	6,676	1995	11,347	1998	4,717		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Domestic				
		Imports*	Exports*	Total	Coastwise		Internal	
					Receipts	Shipments	Receipts	Shipments
Total, all commodities	6,956	472	5,596	888	85	71	724	9
Total petroleum and petroleum products	33	—	17	17	11	—	6	—
Subtotal petroleum products	33	—	17	17	11	—	6	—
2340 residual fuel oil	6	—	—	6	—	—	6	—
2350 lube oil & greases	2	—	—	2	2	—	0	—
2430 asphalt, tar & pitch	9	—	—	9	9	—	—	—
2540 petroleum coke	17	—	17	—	—	—	—	—
Total chemicals and related products	115	19	21	74	74	—	—	—
Subtotal fertilizers	6	—	6	—	—	—	—	—
3130 potassic fert.	6	—	6	—	—	—	—	—
Subtotal other chemicals and related products	109	19	15	74	74	—	—	—
3212 benzene & toluene	91	17	—	74	74	—	—	—
3220 alcohols	2	2	—	—	—	—	—	—
3230 carboxylic acids	0	—	0	—	—	—	—	—
3240 nitrogen func. comp.	0	0	—	—	—	—	—	—
3276 metallic salts	15	—	15	—	—	—	—	—
3282 pigments & paints	0	—	0	—	—	—	—	—
3286 plastics	0	0	0	—	—	—	—	—
Total crude materials, inedible except fuels	88	1	0	86	—	71	9	6
Subtotal forest products, wood and chips	83	1	0	81	—	71	9	1
4161 wood chips	2	—	—	2	—	—	2	—
4170 wood in the rough	9	—	—	9	—	—	8	1
4189 lumber	73	1	0	71	—	71	—	—
Subtotal soil, sand, gravel, rock and stone	5	—	—	5	—	—	—	5
4331 sand & gravel	5	—	—	5	—	—	—	5

PORT OF KALAMA, WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Domestic				
		Imports*	Exports*	Total	Coastwise		Internal	
					Receipts	Shipments	Receipts	Shipments
Total primary manufactured goods	451	451	0	---	---	---	---	---
Subtotal paper products	0	0	0	---	---	---	---	---
5120 paper & paperboard	0	---	0	---	---	---	---	---
5190 paper products nec	0	0	---	---	---	---	---	---
Subtotal lime, cement and glass	0	0	---	---	---	---	---	---
5240 glass & glass prod.	0	0	---	---	---	---	---	---
5290 misc. mineral prod.	0	0	---	---	---	---	---	---
Subtotal primary iron and steel products	449	449	---	---	---	---	---	---
5315 ferro alloys	8	8	---	---	---	---	---	---
5320 i&s primary forms	1	1	---	---	---	---	---	---
5330 i&s plates & sheets	438	438	---	---	---	---	---	---
5360 i&s bars & shapes	1	1	---	---	---	---	---	---
5370 i&s pipe & tube	2	2	---	---	---	---	---	---
Subtotal primary non-ferrous metal products	0	0	---	---	---	---	---	---
5480 fab. metal products	0	0	---	---	---	---	---	---
Subtotal primary wood products	1	1	---	---	---	---	---	---
5540 primary wood prod.	1	1	---	---	---	---	---	---
Total food and farm products	6,268	0	5,557	711	---	---	708	3
Subtotal grain	5,877	0	5,166	711	---	---	708	3
6241 wheat	2,179	---	1,529	650	---	---	647	3
6344 corn	3,390	---	3,390	---	---	---	---	---
6442 rice	0	0	---	---	---	---	---	---
6443 barley & rye	220	---	158	61	---	---	61	---
6447 sorghum grains	88	---	88	---	---	---	---	---
Subtotal oilseeds	286	---	286	---	---	---	---	---
6522 soybeans	277	---	277	---	---	---	---	---
6590 oilseeds nec	9	---	9	---	---	---	---	---
Subtotal vegetable products	2	0	2	---	---	---	---	---
6654 vegetables & prod.	2	0	2	---	---	---	---	---
Subtotal processed grain and animal feed	103	---	103	---	---	---	---	---
6746 wheat flour	17	---	17	---	---	---	---	---
6781 hay & fodder	1	---	1	---	---	---	---	---
6782 animal feed, prep.	85	---	85	---	---	---	---	---
Subtotal other agricultural products	0	0	0	---	---	---	---	---
6835 fish, prepared	0	0	---	---	---	---	---	---
6857 fruit & nuts nec	0	---	0	---	---	---	---	---
6858 fruit juices	0	0	---	---	---	---	---	---
6889 food products nec	0	0	---	---	---	---	---	---
6899 farm products nec	0	---	0	---	---	---	---	---
Total all manufactured equipment, machinery and products	1	0	0	---	---	---	---	---
7110 machinery (not elec)	0	0	---	---	---	---	---	---
7120 electrical machinery	0	0	0	---	---	---	---	---
7210 vehicles & parts	0	---	0	---	---	---	---	---
7230 ships & boats	0	0	0	---	---	---	---	---
7400 manufac. wood prod.	0	0	0	---	---	---	---	---
7500 textile products	0	0	0	---	---	---	---	---
7600 rubber & plastic pr.	0	0	0	---	---	---	---	---
7900 manufac. prod. nec	0	0	---	---	---	---	---	---
Total unknown or not elsewhere classified	0	---	0	---	---	---	---	---
9900 unknown or nec	0	---	0	---	---	---	---	---

*Includes 140 (x1000) tons of foreign inbound in-transits; Includes 99 (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
1990	1,740	1993	1,570	1996	1,783	1999	1,203
1991	1,550	1994	1,360	1997	1,298		
1992	1,405	1995	1,616	1998	1,267		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Domestic				
		Coastwise Receipts	Internal			
			Inbound		Outbound	
Upbound	Downbnd	Upbound	Downbnd			
Total, all commodities	1,202	72	24	24	1,030	52
Total petroleum and petroleum products	24	---	---	24	---	---
Subtotal petroleum products	24	---	---	24	---	---
2330 distillate fuel oil	0	---	---	0	---	---
2340 residual fuel oil	24	---	---	24	---	---
Total crude materials, inedible except fuels	1,178	72	24	---	1,030	52
Subtotal forest products, wood and chips	97	72	24	---	---	1
4170 wood in the rough	97	72	24	---	---	1
Subtotal soil, sand, gravel, rock and stone	1,081	---	---	---	1,030	51
4331 sand & gravel	1,081	---	---	---	1,030	51
Ton-miles (x1000)	26,000	1,590	25	587	23,692	107
Tons All Traffic (x1000)	1,203					
Ton-miles All Traffic (x1000)	26,001					

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
1990	2,101	1993	3,089	1996	2,928	1999	3,717
1991	2,182	1994	3,730	1997	3,608		
1992	2,794	1995	3,592	1998	3,103		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian Exports	Domestic		
		Imports*	Exports*		Total	Internal	
				Upbound		Downbnd	
Total, all commodities	3,717	866	2,178	22	650	582	68
Total petroleum and petroleum products	191	138	9	---	44	42	1
Subtotal petroleum products	191	138	9	---	44	42	1
2211 gasoline	98	98	---	---	---	---	---
2221 kerosene	0	---	0	---	---	---	---
2330 distillate fuel oil	7	---	7	---	---	---	---
2340 residual fuel oil	59	15	---	---	44	42	1
2350 lube oil & greases	1	0	1	---	---	---	---
2410 petro. jelly & waxes	0	---	0	---	---	---	---
2429 naphtha & solvents	16	16	---	---	---	---	---
2430 asphalt, tar & pitch	10	10	---	---	---	---	---
2540 petroleum coke	0	---	0	---	---	---	---
Total chemicals and related products	92	24	46	22	0	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	92	24	46	22	0	0	---
3219 other hydrocarbons	0	0	0	---	---	---	---
3220 alcohols	3	2	2	---	---	---	---
3230 carboxylic acids	5	0	4	---	---	---	---
3240 nitrogen func. comp.	1	0	1	---	---	---	---
3250 organo - inorg. comp.	1	0	0	0	---	---	---
3260 organic comp. nec	2	0	2	---	---	---	---
3272 sulphuric acid	1	1	0	---	---	---	---
3273 ammonia	0	0	---	---	---	---	---
3274 sodium hydroxide	22	---	---	22	---	---	---

OREGON SLOUGH (NORTH PORTLAND HARBOR), OR
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Imports*	Exports*	Exports	Total	Internal	
						Inbound Upbound	Outbound Downbnd
3275 inorg. elem., oxides, & halogen salts	6	4	2	—	—	—	—
3276 metallic salts	3	3	1	—	—	—	—
3279 inorganic chem. nec	1	1	0	—	—	—	—
3281 radioactive material	0	0	—	—	—	—	—
3282 pigments & paints	1	0	1	—	—	—	—
3283 coloring mat. nec	0	0	0	—	—	—	—
3284 medicines	0	0	0	—	—	—	—
3285 perfumes & cleansers	5	2	3	0	—	—	—
3286 plastics	17	6	11	0	0	0	—
3291 pesticides	0	0	0	—	—	—	—
3292 starches, gluten, glue	1	0	1	—	—	—	—
3293 explosives	0	0	0	—	—	—	—
3297 chemical additives	0	0	0	—	—	—	—
3298 wood & resin chem.	15	—	15	—	—	—	—
3299 chem. products nec	5	2	3	—	—	—	—
Total crude materials, inedible except fuels	630	68	502	0	60	60	0
Subtotal forest products, wood and chips	298	67	228	—	2	2	0
4110 rubber & gums	1	1	—	—	—	—	—
4150 fuel wood	3	—	3	—	—	—	—
4161 wood chips	2	—	0	—	2	2	—
4170 wood in the rough	15	0	15	—	—	—	—
4189 lumber	278	66	211	—	0	—	0
4190 forest products nec	0	0	0	—	—	—	—
Subtotal pulp and waste paper	191	—	189	—	3	3	—
4225 pulp & waste paper	191	—	189	—	3	3	—
Subtotal soil, sand, gravel, rock and stone	45	0	1	—	44	44	—
4310 building stone	0	0	—	—	—	—	—
4322 limestone	0	—	0	—	—	—	—
4323 gypsum	0	0	0	—	—	—	—
4331 sand & gravel	45	0	1	—	44	44	—
Subtotal iron ore and scrap	38	—	31	—	7	7	—
4420 iron & steel scrap	38	—	31	—	7	7	—
Subtotal marine shells	0	0	—	—	—	—	—
4515 marine shells	0	0	—	—	—	—	—
Subtotal non-ferrous ores and scrap	26	1	25	0	—	—	—
4650 aluminum ore	1	—	1	—	—	—	—
4680 non-ferrous scrap	24	0	24	0	—	—	—
4690 non-ferrous ores nec	1	1	0	—	—	—	—
Subtotal sulphur, clay and salt	11	—	8	—	3	3	—
4741 sulphur, (dry)	0	—	0	—	—	—	—
4782 clay & refrac. mat.	11	—	8	—	3	3	—
Subtotal slag	0	—	0	—	—	—	—
4860 slag	0	—	0	—	—	—	—
Subtotal other non-metal. min.	22	0	20	—	1	1	—
4900 non-metal. min. nec	22	0	20	—	1	1	—
Total primary manufactured goods	704	238	394	0	72	70	2
Subtotal paper products	408	8	330	—	70	70	—
5110 newsprint	38	2	36	—	—	—	—
5120 paper & paperboard	297	6	291	—	—	—	—
5190 paper products nec	74	1	3	—	70	70	—
Subtotal lime, cement and glass	39	21	18	—	0	—	0
5220 cement & concrete	4	0	4	—	—	—	—
5240 glass & glass prod.	3	2	1	—	—	—	—
5290 misc. mineral prod.	32	19	13	—	0	—	0
Subtotal primary iron and steel products	177	174	3	—	—	—	—
5312 pig iron	0	0	0	—	—	—	—
5315 ferro alloys	0	0	0	—	—	—	—
5320 i&s primary forms	163	163	—	—	—	—	—
5330 i&s plates & sheets	7	5	2	—	—	—	—
5360 i&s bars & shapes	1	0	0	—	—	—	—
5370 i&s pipe & tube	4	4	0	—	—	—	—
5390 primary i&s nec	2	2	—	—	—	—	—
Subtotal primary non-ferrous metal products	38	30	6	0	2	0	1
5421 copper	1	1	0	—	—	—	—
5422 aluminum	2	0	2	0	—	—	—
5429 smelted prod. nec	3	1	2	—	—	—	—
5480 fab. metal products	33	29	2	0	2	0	1
Subtotal primary wood products	41	4	37	0	—	—	—
5540 primary wood prod.	41	4	37	0	—	—	—
Total food and farm products	1,376	38	1,154	0	185	185	0
Subtotal fish	5	3	2	—	—	—	—
6134 fish (not shellfish)	2	0	2	—	—	—	—
6136 shellfish	3	3	—	—	—	—	—
Subtotal grain	143	2	123	—	18	18	0
6241 wheat	116	—	108	—	9	9	—
6344 corn	17	0	14	—	3	3	0
6442 rice	2	2	1	—	—	—	—

OREGON SLOUGH (NORTH PORTLAND HARBOR), OR
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Imports*	Exports*	Exports	Total	Internal	
						Inbound	Outbound
					Upbound	Downbound	
6443 barley & rye	7	—	0	—	7	7	—
6445 oats	0	—	0	—	—	—	—
Subtotal oilseeds	4	0	4	—	—	—	—
6522 soybeans	3	—	3	—	—	—	—
6590 oilseeds nec	1	0	1	—	—	—	—
Subtotal vegetable products	301	6	244	—	51	51	0
6653 vegetable oils	2	1	1	—	—	—	—
6654 vegetables & prod.	299	5	244	—	51	51	0
Subtotal processed grain and animal feed	747	1	665	0	80	80	—
6746 wheat flour	0	—	0	—	—	—	—
6747 grain mill products	54	1	53	0	0	0	—
6781 hay & fodder	635	—	564	—	72	72	—
6782 animal feed, prep.	57	1	48	—	8	8	—
Subtotal other agricultural products	177	26	116	—	35	35	—
6811 meat, fresh, frozen	9	0	9	—	—	—	—
6817 meat, prepared	11	0	11	—	—	—	—
6822 dairy products	56	0	28	—	28	28	—
6835 fish, prepared	2	2	1	—	—	—	—
6838 tallow, animal oils	1	—	1	—	—	—	—
6839 animals & prod. nec	19	0	16	—	3	3	—
6856 bananas & plantains	0	0	—	—	—	—	—
6857 fruit & nuts nec	5	0	5	—	—	—	—
6858 fruit juices	24	10	14	—	—	—	—
6871 coffee	1	1	0	—	—	—	—
6872 cocoa beans	0	0	0	—	—	—	—
6885 alcoholic beverages	10	8	2	—	—	—	—
6888 water & ice	1	1	—	—	—	—	—
6889 food products nec	14	2	12	—	0	0	—
6891 tobacco & products	0	—	0	—	—	—	—
6893 cotton	1	—	1	—	—	—	—
6894 natural fibers nec	0	0	—	—	—	—	—
6899 farm products nec	22	1	17	—	4	4	—
Total all manufactured equipment, machinery and products	708	360	59	0	289	225	65
7110 machinery (not elec)	29	17	12	0	—	—	—
7120 electrical machinery	27	23	4	0	—	—	—
7210 vehicles & parts	257	234	23	0	—	—	—
7220 aircraft & parts	0	0	0	—	—	—	—
7230 ships & boats	0	0	0	—	—	—	—
7300 ordnance & access.	0	—	0	—	—	—	—
7400 manufac. wood prod.	10	3	7	—	—	—	—
7500 textile products	13	10	2	0	—	—	—
7600 rubber & plastic pr.	12	10	1	—	—	—	—
7800 empty containers	243	—	—	—	243	197	46
7900 manufac. prod. nec	117	62	8	0	47	28	19
Total unknown or not elsewhere classified	15	1	14	—	—	—	—
9900 unknown or nec	15	1	14	—	—	—	—

*Includes 22 (x1000) tons of foreign inbound in-transits; Includes 63 (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
1990	7,073	1993	7,380	1996	7,704	1999	7,825
1991	6,485	1994	6,281	1997	7,838		
1992	6,839	1995	7,535	1998	7,849		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian
		Imports*	Exports*	Imports
Total, all commodities	5,372	1,019	4,347	6
Total petroleum and petroleum products	7	7	—	—
Subtotal petroleum products	7	7	—	—
2211 gasoline	7	7	—	—

PORT OF VANCOUVER, WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian
		Imports*	Exports*	Imports
Total chemicals and related products	277	86	186	5
Subtotal fertilizers	90	56	34	—
3110 nitrogenous fert.	46	41	4	—
3130 potassic fert.	30	—	30	—
3190 fert. & mixes nec	15	15	—	—
Subtotal other chemicals and related products	187	31	151	5
3211 acyclic hydrocarbons	0	0	—	—
3212 benzene & toluene	5	5	—	—
3220 alcohols	29	23	—	5
3250 organo - inorg. comp.	0	0	—	—
3276 metallic salts	148	2	146	—
3286 plastics	1	0	0	—
3293 explosives	0	—	0	—
3297 chemical additives	1	—	1	—
3298 wood & resin chem.	3	—	3	—
3299 chem. products nec	0	—	0	—
Total crude materials, inedible except fuels	897	558	339	—
Subtotal forest products, wood and chips	26	8	18	—
4170 wood in the rough	0	—	0	—
4189 lumber	26	8	18	—
Subtotal pulp and waste paper	132	25	107	—
4225 pulp & waste paper	132	25	107	—
Subtotal non-ferrous ores and scrap	567	526	41	—
4630 copper ore	23	—	23	—
4650 aluminum ore	526	526	—	—
4690 non-ferrous ores nec	18	—	18	—
Subtotal sulphur, clay and salt	172	—	172	—
4782 clay & refrac. mat.	172	—	172	—
Total primary manufactured goods	286	285	1	—
Subtotal paper products	2	2	1	—
5120 paper & paperboard	2	2	1	—
Subtotal lime, cement and glass	0	0	0	—
5240 glass & glass prod.	0	0	—	—
5290 misc. mineral prod.	0	0	0	—
Subtotal primary iron and steel products	244	244	—	—
5320 i&s primary forms	76	76	—	—
5330 i&s plates & sheets	76	76	—	—
5360 i&s bars & shapes	35	35	—	—
5370 i&s pipe & tube	46	46	—	—
5390 primary i&s nec	11	11	—	—
Subtotal primary non-ferrous metal products	0	0	0	—
5480 fab. metal products	0	0	0	—
Subtotal primary wood products	40	39	1	—
5540 primary wood prod.	40	39	1	—
Total food and farm products	3,818	0	3,818	—
Subtotal grain	3,685	—	3,685	—
6241 wheat	3,613	—	3,613	—
6344 corn	60	—	60	—
6443 barley & rye	11	—	11	—
Subtotal oilseeds	88	—	88	—
6522 soybeans	88	—	88	—
Subtotal vegetable products	0	—	0	—
6653 vegetable oils	0	—	0	—
6654 vegetables & prod.	0	—	0	—
Subtotal processed grain and animal feed	44	—	44	—
6746 wheat flour	4	—	4	—
6781 hay & fodder	2	—	2	—
6782 animal feed, prep.	38	—	38	—
Subtotal other agricultural products	0	0	0	—
6839 animals & prod. nec	0	0	0	—
6885 alcoholic beverages	0	0	—	—
Total all manufactured equipment, machinery and products	86	82	3	0
7110 machinery (not elec)	2	0	1	0
7120 electrical machinery	1	1	—	—
7210 vehicles & parts	81	80	1	—
7230 ships & boats	0	0	—	—
7400 manufac. wood prod.	1	0	1	—
7500 textile products	0	0	0	—
7600 rubber & plastic pr.	0	0	—	—
7900 manufac. prod. nec	1	0	0	—
Total unknown or not elsewhere classified	1	0	1	0
9900 unknown or nec	1	0	1	0

PORT OF VANCOUVER, WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	2,453	54	5	1,351	1,006	37
Total petroleum and petroleum products	624	53	4	112	419	37
Subtotal petroleum products	624	53	4	112	419	37
2211 gasoline	276	31	—	—	228	17
2330 distillate fuel oil	269	22	—	40	187	20
2340 residual fuel oil	80	—	4	72	4	—
2350 lube oil & greases	0	—	—	0	—	—
Total chemicals and related products	21	—	1	20	—	—
Subtotal fertilizers	21	—	1	20	—	—
3110 nitrogenous fert.	1	—	1	—	—	—
3190 fert. & mixes nec	20	—	—	20	—	—
Total crude materials, inedible except fuels	387	—	—	12	375	—
Subtotal forest products, wood and chips	3	—	—	—	3	—
4161 wood chips	3	—	—	—	3	—
4170 wood in the rough	0	—	—	—	0	—
Subtotal pulp and waste paper	10	—	—	10	—	—
4225 pulp & waste paper	10	—	—	10	—	—
Subtotal soil, sand, gravel, rock and stone	374	—	—	3	372	—
4331 sand & gravel	374	—	—	3	372	—
Total primary manufactured goods	0	—	—	—	0	—
Subtotal primary iron and steel products	0	—	—	—	0	—
5360 i&s bars & shapes	0	—	—	—	0	—
Total food and farm products	1,165	—	—	1,165	—	—
Subtotal fish	0	—	—	0	—	—
6134 fish (not shellfish)	0	—	—	0	—	—
Subtotal grain	1,165	—	—	1,165	—	—
6241 wheat	1,162	—	—	1,162	—	—
6443 barley & rye	3	—	—	3	—	—
Total all manufactured equipment, machinery and products	74	1	—	35	38	—
7110 machinery (not elec)	1	1	—	—	—	—
7800 empty containers	73	—	—	35	38	—
Total waste and scrap nec	181	—	—	6	175	—
8900 waste and scrap nec	181	—	—	6	175	—

*Includes 12 (x1000) tons of foreign inbound in-transits; Includes 95 (x1000) tons of foreign 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
1990	9,735	1993	10,843	1996	10,733	1999	9,396
1991	10,210	1994	11,277	1997	10,923		
1992	10,671	1995	11,626	1998	9,910		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Coastwise		
		Receipts	Shipments	Through Downbnd
Total, all commodities	47	15	13	18
Total petroleum and petroleum products	15	15	—	—
Subtotal petroleum products	15	15	—	—
2211 gasoline	4	4	—	—
2330 distillate fuel oil	11	11	—	—
Total chemicals and related products	15	—	—	15
Subtotal fertilizers	15	—	—	15
3110 nitrogenous fert.	15	—	—	15
Total crude materials, inedible except fuels	13	—	13	—
Subtotal forest products, wood and chips	13	—	13	—
4170 wood in the rough	13	—	13	—

COLUMBIA RIVER BETWEEN VANCOUVER, WA AND THE DALLES, OR
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Coastwise		
		Receipts	Shipments	Through Downbnd
Total all manufactured equipment, machinery and products	3	---	---	3
7800 empty containers	3	---	---	3
Ton-miles (x1000) Coastwise	2,549	15	971	1,563

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	9,350	96	330	5	431	2,439	5,878	8	162
Total petroleum and petroleum products	2,099	2	---	---	---	2,097	---	---	---
Subtotal petroleum products	2,099	2	---	---	---	2,097	---	---	---
2211 gasoline	1,193	---	---	---	---	1,193	---	---	---
2330 distillate fuel oil	903	---	---	---	---	903	---	---	---
2340 residual fuel oil	2	2	---	---	---	---	---	---	---
Total chemicals and related products	70	---	---	---	---	62	8	---	---
Subtotal fertilizers	25	---	---	---	---	17	8	---	---
3110 nitrogenous fert.	1	---	---	---	---	---	1	---	---
3190 fert. & mixes nec	24	---	---	---	---	17	7	---	---
Subtotal other chemicals and related products	45	---	---	---	---	45	0	---	---
3273 ammonia	12	---	---	---	---	12	---	---	---
3274 sodium hydroxide	33	---	---	---	---	33	---	---	---
3286 plastics	0	---	---	---	---	---	0	---	---
Total crude materials, inedible except fuels	1,546	93	330	5	318	0	629	8	162
Subtotal forest products, wood and chips	1,063	---	110	---	311	0	482	6	155
4150 fuel wood	1	---	---	---	---	---	1	---	---
4161 wood chips	781	---	110	---	134	---	470	---	67
4170 wood in the rough	280	---	---	---	177	---	10	6	88
4189 lumber	1	---	---	---	0	0	---	---	---
Subtotal pulp and waste paper	14	---	---	---	---	---	14	---	---
4225 pulp & waste paper	14	---	---	---	---	---	14	---	---
Subtotal soil, sand, gravel, rock and stone	452	93	220	5	7	---	117	3	7
4331 sand & gravel	452	93	220	5	7	---	117	3	7
Subtotal iron ore and scrap	11	---	---	---	---	---	11	---	---
4420 iron & steel scrap	11	---	---	---	---	---	11	---	---
Subtotal sulphur, clay and salt	3	---	---	---	---	---	3	---	---
4782 clay & refrac. mat.	3	---	---	---	---	---	3	---	---
Subtotal other non-metal. min.	1	---	---	---	---	---	1	---	---
4900 non-metal. min. nec	1	---	---	---	---	---	1	---	---
Total primary manufactured goods	84	0	---	---	12	2	70	---	---
Subtotal paper products	70	---	---	---	---	---	70	---	---
5190 paper products nec	70	---	---	---	---	---	70	---	---

COLUMBIA RIVER BETWEEN VANCOUVER, WA AND THE DALLES, OR
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Subtotal lime, cement and glass	0	---	---	---	---	0	---	---	---
5290 misc. mineral prod.	0	---	---	---	---	0	---	---	---
Subtotal primary iron and steel products	1	0	---	---	1	---	---	---	---
5360 i&s bars & shapes	1	0	---	---	1	---	---	---	---
Subtotal primary non-ferrous metal products	13	---	---	---	12	1	0	---	---
5422 aluminum	12	---	---	---	12	---	---	---	---
5480 fab. metal products	2	---	---	---	---	1	0	---	---
Total food and farm products	5,007	0	---	---	101	0	4,906	---	---
Subtotal fish	0	0	---	---	---	---	---	---	---
6134 fish (not shellfish)	0	0	---	---	---	---	---	---	---
6136 shellfish	0	0	---	---	---	---	---	---	---
Subtotal grain	4,840	---	---	---	96	0	4,744	---	---
6241 wheat	4,543	---	---	---	93	---	4,451	---	---
6344 corn	11	---	---	---	---	0	11	---	---
6443 barley & rye	286	---	---	---	3	---	282	---	---
Subtotal vegetable products	51	---	---	---	1	0	50	---	---
6654 vegetables & prod.	51	---	---	---	1	0	50	---	---
Subtotal processed grain and animal feed	80	---	---	---	3	---	77	---	---
6747 grain mill products	0	---	---	---	---	---	0	---	---
6781 hay & fodder	72	---	---	---	---	---	72	---	---
6782 animal feed, prep.	8	---	---	---	3	---	5	---	---
Subtotal other agricultural products	35	---	---	---	---	---	35	---	---
6822 dairy products	28	---	---	---	---	---	28	---	---
6839 animals & prod. nec	3	---	---	---	---	---	3	---	---
6889 food products nec	0	---	---	---	---	---	0	---	---
6899 farm products nec	4	---	---	---	---	---	4	---	---
Total all manufactured equipment, machinery and products	363	0	---	0	---	103	260	---	---
7800 empty containers	316	0	---	0	---	84	232	---	---
7900 manufac. prod. nec	47	---	---	---	---	19	28	---	---
Total waste and scrap nec	181	---	---	---	---	175	6	---	---
8900 waste and scrap nec	181	---	---	---	---	175	6	---	---
Ton-miles Internal (x1000)	770,529	1,251	23,796	372	32,320	207,289	499,653	14	5,835
Tons All Traffic (x1000)									9,396
Ton-miles All Traffic (x1000)									773,077

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
1990	7,392	1993	8,469	1996	9,061	1999	8,700
1991	7,665	1994	9,246	1997	9,754		
1992	7,580	1995	9,802	1998	9,166		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Domestic						
		Coastwise	Internal					
			Through	Inbound		Outbound		Through
		Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	8,700	18	625	28	2	1,348	1,819	4,860
Total petroleum and petroleum products	2,101	---	364	2	1	---	1,733	---
Subtotal petroleum products	2,101	---	364	2	1	---	1,733	---
2211 gasoline	1,193	---	1	---	---	---	1,192	---
2330 distillate fuel oil	907	---	362	2	1	---	541	---
Total chemicals and related products	110	15	7	25	---	5	55	3
Subtotal fertilizers	65	15	7	25	---	5	10	3
3110 nitrogenous fert.	19	15	---	3	---	1	---	---
3190 fert. & mixes nec	47	---	7	23	---	4	10	3
Subtotal other chemicals and related products	45	---	---	---	---	---	45	0
3273 ammonia	12	---	---	---	---	---	12	---
3274 sodium hydroxide	33	---	---	---	---	---	33	---
3286 plastics	0	---	---	---	---	---	---	0
Total crude materials, inedible except fuels	964	---	5	---	---	512	0	447
Subtotal forest products, wood and chips	592	---	---	---	---	175	0	417
4150 fuel wood	1	---	---	---	---	---	---	1
4161 wood chips	580	---	---	---	---	175	---	405
4170 wood in the rough	10	---	---	---	---	---	---	10
4189 lumber	0	---	---	---	---	---	0	---
Subtotal pulp and waste paper	14	---	---	---	---	---	---	14
4225 pulp & waste paper	14	---	---	---	---	---	---	14
Subtotal soil, sand, gravel, rock and stone	342	---	5	---	---	337	---	---
4331 sand & gravel	342	---	5	---	---	337	---	---
Subtotal iron ore and scrap	11	---	---	---	---	---	---	11
4420 iron & steel scrap	11	---	---	---	---	---	---	11
Subtotal sulphur, clay and salt	3	---	---	---	---	---	---	3
4782 clay & refrac. mat.	3	---	---	---	---	---	---	3
Subtotal other non-metal. min.	1	---	---	---	---	---	---	1
4900 non-metal. min. nec	1	---	---	---	---	---	---	1
Total primary manufactured goods	72	---	---	---	---	---	2	70
Subtotal paper products	70	---	---	---	---	---	---	70
5190 paper products nec	70	---	---	---	---	---	---	70
Subtotal lime, cement and glass	0	---	---	---	---	---	0	---
5290 misc. mineral prod.	0	---	---	---	---	---	0	---
Subtotal primary non-ferrous metal products	2	---	---	---	---	---	1	0
5480 fab. metal products	2	---	---	---	---	---	1	0
Total food and farm products	4,906	---	---	---	---	609	0	4,296
Subtotal grain	4,744	---	---	---	---	593	0	4,150
6241 wheat	4,451	---	---	---	---	552	---	3,899
6344 corn	11	---	---	---	---	7	0	3
6443 barley & rye	282	---	---	---	---	34	---	248
Subtotal vegetable products	50	---	---	---	---	7	0	43
6654 vegetables & prod.	50	---	---	---	---	7	0	43
Subtotal processed grain and animal feed	77	---	---	---	---	9	---	68
6747 grain mill products	0	---	---	---	---	0	---	---
6781 hay & fodder	72	---	---	---	---	3	---	68
6782 animal feed, prep.	5	---	---	---	---	5	---	---
Subtotal other agricultural products	35	---	---	---	---	0	---	35
6822 dairy products	28	---	---	---	---	---	---	28
6839 animals & prod. nec	3	---	---	---	---	---	---	3
6889 food products nec	0	---	---	---	---	0	---	0

COLUMBIA RIVER ABOVE THE DALLES DAM, WA AND OR TO MCNARY LOCK AND DAM, OR AND WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Domestic							
		Coastwise	Inbound			Internal		Through	
			Through	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
		Downbnd							
6899 farm products nec	4	—	—	—	—	—	—	—	4
Total all manufactured equipment, machinery and products	366	3	74	0	0	215	29	44	
7800 empty containers	319	3	55	—	—	214	28	18	
7900 manufac. prod. nec	47	—	19	0	0	1	0	26	
Total waste and scrap nec	181	—	175	—	—	6	—	—	
8900 waste and scrap nec	181	—	175	—	—	6	—	—	
Ton-miles (x1000)	789,141	1,802	56,362	0	0	76,393	178,274	476,311	

Tons All Traffic (x1000) **8,700**
Ton-miles All Traffic (x1000) **789,142**

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
1990	27,475	1993	29,804	1996	29,734	1999	29,339
1991	29,299	1994	30,164	1997	29,561		
1992	28,227	1995	31,256	1998	29,974		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports
Total, all commodities	16,439	3,964	11,718	734	22
Total petroleum and petroleum products	1,132	886	9	237	—
Subtotal crude petroleum	256	256	—	—	—
2100 crude petroleum	256	256	—	—	—
Subtotal petroleum products	876	630	9	237	—
2211 gasoline	612	517	—	96	—
2221 kerosene	22	21	0	—	—
2330 distillate fuel oil	178	51	8	119	—
2340 residual fuel oil	37	15	—	23	—
2350 lube oil & greases	1	0	1	—	—
2410 petro. jelly & waxes	0	—	0	—	—
2429 naphtha & solvents	16	16	—	—	—
2430 asphalt, tar & pitch	10	10	—	—	—
2540 petroleum coke	0	—	0	—	—
Total chemicals and related products	4,040	217	3,771	30	22
Subtotal fertilizers	2,050	86	1,952	12	0
3110 nitrogenous fert.	117	80	26	12	—
3130 potassic fert.	1,926	—	1,926	—	0
3190 fert. & mixes nec	7	6	0	—	—
Subtotal other chemicals and related products	1,989	131	1,819	18	22
3219 other hydrocarbons	0	0	0	—	—
3220 alcohols	86	84	2	—	—
3230 carboxylic acids	5	1	5	—	—
3240 nitrogen func. comp.	1	0	1	—	—
3250 organo - inorg. comp.	1	1	0	—	0
3260 organic comp. nec	2	0	2	—	—
3272 sulphuric acid	1	1	0	—	—
3273 ammonia	12	0	—	12	—
3274 sodium hydroxide	22	—	—	—	22
3275 inorg. elem., oxides, & halogen salts	27	25	3	—	—
3276 metallic salts	1,775	5	1,769	—	—
3279 inorganic chem. nec	1	1	0	—	—
3281 radioactive material	0	0	—	—	—
3282 pigments & paints	2	0	1	—	—
3283 coloring mat. nec	0	0	0	—	—
3284 medicines	0	0	0	—	—
3285 perfumes & cleansers	6	2	4	—	0
3286 plastics	20	7	13	—	0

PORT OF PORTLAND, OR
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports
3291 pesticides	0	0	0	—	—
3292 starches, gluten, glue	2	0	1	—	—
3293 explosives	1	1	0	—	—
3297 chemical additives	0	0	0	—	—
3298 wood & resin chem.	21	—	15	6	—
3299 chem. products nec	5	3	3	—	—
Total crude materials, inedible except fuels	1,799	740	592	467	0
Subtotal forest products, wood and chips	411	133	277	—	—
4110 rubber & gums	1	1	—	—	—
4150 fuel wood	3	—	3	—	—
4161 wood chips	0	—	0	—	—
4170 wood in the rough	21	0	20	—	—
4189 lumber	386	132	254	—	—
4190 forest products nec	0	0	0	—	—
Subtotal pulp and waste paper	211	1	210	—	—
4225 pulp & waste paper	211	1	210	—	—
Subtotal soil, sand, gravel, rock and stone	469	0	1	467	—
4310 building stone	0	0	—	—	—
4322 limestone	468	—	0	467	—
4323 gypsum	0	0	0	—	—
4331 sand & gravel	1	0	1	—	—
Subtotal iron ore and scrap	32	—	32	—	—
4420 iron & steel scrap	32	—	32	—	—
Subtotal marine shells	0	0	—	—	—
4515 marine shells	0	0	—	—	—
Subtotal non-ferrous ores and scrap	268	227	41	—	0
4650 aluminum ore	227	226	1	—	—
4680 non-ferrous scrap	26	0	26	—	0
4690 non-ferrous ores nec	16	1	15	—	—
Subtotal sulphur, clay and salt	9	—	9	—	—
4741 sulphur, (dry)	0	—	0	—	—
4782 clay & refrac. mat.	9	—	9	—	—
Subtotal slag	0	—	0	—	—
4860 slag	0	—	0	—	—
Subtotal other non-metal. min.	399	378	20	—	—
4900 non-metal. min. nec	399	378	20	—	—
Total primary manufactured goods	1,884	1,451	432	—	0
Subtotal paper products	371	10	361	—	—
5110 newsprint	40	2	37	—	—
5120 paper & paperboard	326	7	319	—	—
5190 paper products nec	6	1	5	—	—
Subtotal lime, cement and glass	560	541	19	—	—
5220 cement & concrete	518	514	4	—	—
5240 glass & glass prod.	4	3	1	—	—
5290 misc. mineral prod.	38	24	14	—	—
Subtotal primary iron and steel products	863	860	3	—	—
5312 pig iron	51	50	1	—	—
5315 ferro alloys	41	41	0	—	—
5320 i&s primary forms	448	448	0	—	—
5330 i&s plates & sheets	112	110	2	—	—
5360 i&s bars & shapes	36	36	0	—	—
5370 i&s pipe & tube	17	17	0	—	—
5390 primary i&s nec	158	158	—	—	—
Subtotal primary non-ferrous metal products	41	34	8	—	0
5421 copper	2	2	0	—	—
5422 aluminum	2	0	2	—	0
5429 smelted prod. nec	3	1	2	—	—
5480 fab. metal products	34	31	3	—	0
Subtotal primary wood products	48	7	41	—	0
5540 primary wood prod.	48	7	41	—	0
Total food and farm products	6,876	58	6,818	—	0
Subtotal fish	5	3	2	—	—
6134 fish (not shellfish)	2	0	2	—	—
6136 shellfish	3	3	—	—	—
Subtotal grain	5,517	2	5,515	—	—
6241 wheat	5,257	—	5,257	—	—
6344 corn	37	0	37	—	—
6442 rice	2	2	1	—	—
6443 barley & rye	219	—	219	—	—
6445 oats	0	—	0	—	—
Subtotal oilseeds	26	0	26	—	—
6522 soybeans	20	—	20	—	—
6590 oilseeds nec	6	0	6	—	—
Subtotal vegetable products	286	8	278	—	—
6653 vegetable oils	3	2	1	—	—
6654 vegetables & prod.	283	6	277	—	—
Subtotal processed grain and animal feed	872	3	869	—	0
6746 wheat flour	1	—	1	—	—
6747 grain mill products	59	1	58	—	0
6781 hay & fodder	643	—	643	—	—
6782 animal feed, prep.	169	2	166	—	—
Subtotal other agricultural products	170	41	129	—	—
6811 meat, fresh, frozen	11	0	11	—	—

PORT OF PORTLAND, OR
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports
6817 meat, prepared	11	0	11	—	—
6822 dairy products	29	0	29	—	—
6835 fish, prepared	2	2	1	—	—
6838 tallow, animal oils	1	0	1	—	—
6839 animals & prod. nec	17	0	17	—	—
6856 bananas & plantains	0	0	—	—	—
6857 fruit & nuts nec	6	0	6	—	—
6858 fruit juices	29	12	16	—	—
6861 sugar	0	0	—	—	—
6871 coffee	1	1	0	—	—
6872 cocoa beans	0	0	0	—	—
6885 alcoholic beverages	18	16	2	—	—
6888 water & ice	2	2	—	—	—
6889 food products nec	16	2	14	—	—
6891 tobacco & products	0	—	0	—	—
6893 cotton	1	—	1	—	—
6894 natural fibers nec	0	0	—	—	—
6899 farm products nec	24	4	20	—	—
Total all manufactured equipment, machinery and products	692	611	80	—	0
7110 machinery (not elec)	38	21	17	—	0
7120 electrical machinery	36	30	7	—	0
7210 vehicles & parts	494	468	26	—	0
7220 aircraft & parts	0	0	0	—	0
7230 ships & boats	0	0	0	—	—
7300 ordnance & access.	0	—	0	—	—
7400 manufac. wood prod.	11	3	8	—	—
7500 textile products	14	11	3	—	0
7600 rubber & plastic pr.	13	11	2	—	—
7900 manufac. prod. nec	84	67	17	—	0
Total unknown or not elsewhere classified	17	1	16	0	—
9900 unknown or nec	17	1	16	0	—

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	12,900	4,323	187	5,169	2,387	834
Total petroleum and petroleum products	6,993	4,173	88	198	2,208	326
Subtotal crude petroleum	27	27	—	—	—	—
2100 crude petroleum	27	27	—	—	—	—
Subtotal petroleum products	6,966	4,146	88	198	2,208	326
2211 gasoline	4,032	2,657	1	161	1,127	86
2221 kerosene	18	18	—	—	—	—
2330 distillate fuel oil	1,827	953	23	32	790	28
2340 residual fuel oil	824	278	40	5	290	211
2350 lube oil & greases	110	108	—	—	1	0
2429 naphtha & solvents	9	—	9	—	—	—
2430 asphalt, tar & pitch	146	132	14	—	—	—
Total chemicals and related products	281	146	65	5	66	—
Subtotal fertilizers	118	104	2	5	7	—
3110 nitrogenous fert.	105	104	2	—	—	—
3190 fert. & mixes nec	12	—	—	5	7	—
Subtotal other chemicals and related products	164	42	63	0	58	—
3220 alcohols	15	2	13	—	—	—
3272 sulphuric acid	0	—	0	—	—	—
3273 ammonia	75	40	23	—	12	—
3274 sodium hydroxide	73	—	26	—	47	—
3286 plastics	1	—	1	0	—	—
Total crude materials, inedible except fuels	2,087	4	13	1,535	43	493
Subtotal forest products, wood and chips	15	0	13	2	0	—
4161 wood chips	2	—	—	2	—	—
4170 wood in the rough	1	—	1	—	—	—
4189 lumber	12	0	11	0	0	—
Subtotal pulp and waste paper	4	—	—	4	—	—
4225 pulp & waste paper	4	—	—	4	—	—
Subtotal soil, sand, gravel, rock and stone	2,048	—	—	1,512	43	493
4331 sand & gravel	2,048	—	—	1,512	43	493
Subtotal iron ore and scrap	15	4	—	11	—	—
4420 iron & steel scrap	15	4	—	11	—	—
Subtotal sulphur, clay and salt	3	—	—	3	—	—
4782 clay & refrac. mat.	3	—	—	3	—	—
Subtotal other non-metal. min.	1	—	—	1	—	—
4900 non-metal. min. nec	1	—	—	1	—	—

PORT OF PORTLAND, OR
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total primary manufactured goods	95	0	22	70	2	0
Subtotal paper products	74	—	4	70	—	—
5190 paper products nec	74	—	4	70	—	—
Subtotal lime, cement and glass	0	0	0	—	0	—
5240 glass & glass prod.	0	—	0	—	—	—
5290 misc. mineral prod.	0	0	—	—	0	—
Subtotal primary iron and steel products	14	—	13	1	0	—
5330 i&s plates & sheets	0	—	0	—	—	—
5360 i&s bars & shapes	10	—	9	1	—	—
5370 i&s pipe & tube	4	—	3	—	0	—
Subtotal primary non-ferrous metal products	2	—	—	0	1	0
5480 fab. metal products	2	—	—	0	1	0
Subtotal primary wood products	5	—	5	—	—	—
5540 primary wood prod.	5	—	5	—	—	—
Total food and farm products	3,155	—	—	3,137	3	15
Subtotal grain	2,988	—	—	2,970	3	15
6241 wheat	2,756	—	—	2,738	3	14
6344 corn	11	—	—	11	0	—
6443 barley & rye	222	—	—	221	—	1
Subtotal vegetable products	51	—	—	51	0	—
6654 vegetables & prod.	51	—	—	51	0	—
Subtotal processed grain and animal feed	80	—	—	80	—	—
6747 grain mill products	0	—	—	0	—	—
6781 hay & fodder	72	—	—	72	—	—
6782 animal feed, prep.	8	—	—	8	—	—
Subtotal other agricultural products	35	—	—	35	—	—
6822 dairy products	28	—	—	28	—	—
6839 animals & prod. nec	3	—	—	3	—	—
6889 food products nec	0	—	—	0	—	—
6899 farm products nec	4	—	—	4	—	—
Total all manufactured equipment, machinery and products	290	0	0	225	65	0
7110 machinery (not elec)	0	0	0	—	—	—
7210 vehicles & parts	0	—	0	—	—	—
7230 ships & boats	0	—	0	—	—	—
7400 manufac. wood prod.	0	0	—	—	—	—
7800 empty containers	243	—	—	197	46	0
7900 manufac. prod. nec	47	—	0	28	19	—

*Includes 61 (x1000) tons of foreign inbound in-transits; Includes 569 (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
1990	2,224	1993	1,375	1996	1,360	1999	748
1991	1,575	1994	1,481	1997	1,353		
1992	1,448	1995	1,486	1998	1,055		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Internal		
		Outbound Downbnd	Intra	
			Upbound	Downbnd
Total, all commodities	748	535	78	135
Total crude materials, inedible except fuels	748	535	78	135
Subtotal soil, sand, gravel, rock and stone	748	535	78	135
4331 sand & gravel	748	535	78	135
Ton-miles (x1000)	2,620	0	494	2,126
Tons All Traffic (x1000)	748			
Ton-miles All Traffic (x1000)	2,620			

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
1990	6,069	1993	5,413	1996	3,322	1999	2,631
1991	5,523	1994	3,744	1997	3,164		
1992	4,458	1995	3,628	1998	2,773		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports*	Imports	Exports
Total, all commodities	2,156	8	2,074	57	17
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	---	---
Subtotal other chemicals and related products	0	---	0	---	---
3286 plastics	0	---	0	---	---
Total crude materials, inedible except fuels	2,145	8	2,065	57	15
Subtotal forest products, wood and chips	2,143	7	2,064	57	15
4150 fuel wood	0	---	0	---	---
4161 wood chips	1,974	---	1,959	---	15
4170 wood in the rough	125	---	68	57	---
4189 lumber	44	7	37	---	---
Subtotal pulp and waste paper	2	1	1	---	---
4225 pulp & waste paper	2	1	1	---	---
Total primary manufactured goods	2	---	2	---	---
Subtotal primary non-ferrous metal products	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	0	---	---	0	---
Subtotal fish	0	---	---	0	---
6134 fish (not shellfish)	0	---	---	0	---
Total all manufactured equipment, machinery and products	5	---	3	---	2
7110 machinery (not elec)	0	---	0	---	---
7120 electrical machinery	0	---	---	---	0
7230 ships & boats	2	---	---	---	2
7400 manufac. wood prod.	3	---	3	---	---
Total unknown or not elsewhere classified	4	---	4	---	0
9900 unknown or nec	4	---	4	---	0

Commodity	Total	Domestic			
		Coastwise		Internal	
		Receipts	Shipments	Receipts	Intraport
Total, all commodities	475	266	172	13	24
Total petroleum and petroleum products	2	2	---	---	---
Subtotal petroleum products	2	2	---	---	---
2340 residual fuel oil	2	2	---	---	---
Total crude materials, inedible except fuels	455	265	166	---	24
Subtotal forest products, wood and chips	455	265	166	---	24
4161 wood chips	85	14	72	---	---
4170 wood in the rough	275	251	---	---	24
4189 lumber	94	---	94	---	---
Total primary manufactured goods	6	---	6	---	---
Subtotal lime, cement and glass	0	---	0	---	---
5240 glass & glass prod.	0	---	0	---	---
Subtotal primary non-ferrous metal products	0	---	0	---	---
5480 fab. metal products	0	---	0	---	---
Subtotal primary wood products	6	---	6	---	---
5540 primary wood prod.	6	---	6	---	---

COOS BAY, OR
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic			
		Coastwise		Internal	
		Receipts	Shipments	Receipts	Intraport
Total food and farm products	13	—	—	13	—
Subtotal fish	13	—	—	13	—
6134 fish (not shellfish)	9	—	—	9	—
6136 shellfish	4	—	—	4	—

*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
1990	53,229	1993	53,558	1996	54,023	1999	51,766
1991	52,376	1994	52,607	1997	54,257		
1992	53,427	1995	60,092	1998	50,435		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports
Total, all commodities	33,055	6,309	25,866	791	89
Total coal	12	—	12	—	—
1100 coal lignite	12	—	12	—	—
Total petroleum and petroleum products	1,951	1,076	544	265	66
Subtotal crude petroleum	256	256	—	—	—
2100 crude petroleum	256	256	—	—	—
Subtotal petroleum products	1,695	821	544	265	66
2211 gasoline	642	546	—	96	—
2221 kerosene	38	21	0	16	—
2330 distillate fuel oil	189	51	8	130	—
2340 residual fuel oil	37	15	—	23	—
2350 lube oil & greases	1	0	1	—	—
2410 petro. jelly & waxes	0	—	0	—	—
2429 naphtha & solvents	16	16	—	—	—
2430 asphalt, tar & pitch	172	171	1	—	—
2540 petroleum coke	600	—	533	—	66
Total chemicals and related products	4,912	362	4,490	38	22
Subtotal fertilizers	2,224	169	2,043	12	0
3110 nitrogenous fert.	190	148	30	12	—
3130 potassic fert.	2,013	—	2,013	—	0
3190 fert. & mixes nec	21	21	0	—	—
Subtotal other chemicals and related products	2,689	193	2,448	26	22
3211 acyclic hydrocarbons	0	0	—	—	—
3212 benzene & toluene	22	22	—	—	—
3219 other hydrocarbons	0	0	0	—	—
3220 alcohols	125	118	2	5	—
3230 carboxylic acids	5	1	5	—	—
3240 nitrogen func. comp.	1	0	1	—	0
3250 organo - inorg. comp.	1	1	0	—	0
3260 organic comp. nec	2	0	2	—	—
3272 sulphuric acid	1	1	0	—	—
3273 ammonia	12	0	—	12	—
3274 sodium hydroxide	37	3	9	3	22
3275 inorg. elem., oxides, & halogen salts	27	25	3	—	—
3276 metallic salts	2,390	7	2,383	—	—
3279 inorganic chem. nec	1	1	0	—	—
3281 radioactive material	0	0	—	—	—
3282 pigments & paints	2	1	1	—	—
3283 coloring mat. nec	0	0	0	—	—
3284 medicines	0	0	0	—	—
3285 perfumes & cleansers	6	2	4	—	0
3286 plastics	20	7	13	—	0
3291 pesticides	0	0	0	—	—
3292 starches, gluten, glue	2	0	1	—	—
3293 explosives	1	1	0	—	—
3297 chemical additives	1	0	1	—	—
3298 wood & resin chem.	26	—	19	6	—
3299 chem. products nec	6	3	3	—	0
Total crude materials, inedible except fuels	5,085	1,869	2,729	488	0
Subtotal forest products, wood and chips	2,152	142	1,989	20	—
4110 rubber & gums	1	1	—	—	—
4150 fuel wood	3	—	3	—	—
4161 wood chips	20	—	0	20	—

COLUMBIA RIVER SYSTEM
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports
4170 wood in the rough	1,699	0	1,699	—	—
4189 lumber	429	141	288	—	—
4190 forest products nec	0	0	0	—	—
Subtotal pulp and waste paper	358	26	332	—	—
4225 pulp & waste paper	358	26	332	—	—
Subtotal soil, sand, gravel, rock and stone	469	0	1	467	—
4310 building stone	0	0	—	—	—
4322 limestone	468	—	0	467	—
4323 gypsum	0	0	0	—	—
4331 sand & gravel	1	0	1	—	—
Subtotal iron ore and scrap	57	—	57	—	—
4420 iron & steel scrap	57	—	57	—	—
Subtotal marine shells	0	0	—	—	—
4515 marine shells	0	0	—	—	—
Subtotal non-ferrous ores and scrap	1,412	1,319	92	—	0
4630 copper ore	23	—	23	—	—
4650 aluminum ore	1,315	1,314	1	—	—
4680 non-ferrous scrap	26	0	26	—	0
4690 non-ferrous ores nec	48	5	43	—	—
Subtotal sulphur, clay and salt	223	3	221	—	—
4741 sulphur, (dry)	0	—	0	—	—
4782 clay & refrac. mat.	223	3	221	—	—
Subtotal slag	0	—	0	—	—
4860 slag	0	—	0	—	—
Subtotal other non-metal. min.	414	378	36	—	—
4900 non-metal. min. nec	414	378	36	—	—
Total primary manufactured goods	2,995	2,219	776	0	0
Subtotal paper products	722	20	703	—	—
5110 newsprint	382	10	372	—	—
5120 paper & paperboard	334	9	325	—	—
5190 paper products nec	6	1	5	—	—
Subtotal lime, cement and glass	560	541	19	—	0
5220 cement & concrete	518	514	4	—	—
5240 glass & glass prod.	4	3	1	—	—
5290 misc. mineral prod.	38	24	14	—	0
Subtotal primary iron and steel products	1,580	1,577	3	—	—
5312 pig iron	51	50	1	—	—
5315 ferro alloys	49	49	0	—	—
5320 i&s primary forms	536	536	0	—	—
5330 i&s plates & sheets	633	631	2	—	—
5360 i&s bars & shapes	75	75	0	—	—
5370 i&s pipe & tube	66	66	0	—	—
5390 primary i&s nec	169	169	—	—	—
Subtotal primary non-ferrous metal products	43	35	8	—	0
5421 copper	2	2	0	—	—
5422 aluminum	3	0	2	—	0
5429 smelted prod. nec	3	1	2	—	—
5480 fab. metal products	35	32	3	—	0
Subtotal primary wood products	90	46	43	0	0
5540 primary wood prod.	90	46	43	0	0
Total food and farm products	17,298	83	17,215	1	0
Subtotal fish	6	3	2	1	—
6134 fish (not shellfish)	3	0	2	1	—
6136 shellfish	3	3	—	—	—
Subtotal grain	15,022	2	15,020	—	—
6241 wheat	10,875	—	10,875	—	—
6344 corn	3,589	0	3,589	—	—
6442 rice	3	2	1	—	—
6443 barley & rye	466	—	466	—	—
6445 oats	0	—	0	—	—
6447 sorghum grains	88	—	88	—	—
Subtotal oilseeds	506	25	480	—	—
6522 soybeans	420	—	420	—	—
6590 oilseeds nec	86	25	61	—	—
Subtotal vegetable products	289	8	281	—	—
6653 vegetable oils	3	2	1	—	—
6654 vegetables & prod.	286	6	279	—	—
Subtotal processed grain and animal feed	1,306	3	1,302	—	0
6746 wheat flour	22	—	22	—	—
6747 grain mill products	59	1	58	—	0
6781 hay & fodder	651	—	651	—	—
6782 animal feed, prep.	573	2	571	—	—
Subtotal other agricultural products	171	41	130	—	—
6811 meat, fresh, frozen	11	0	11	—	—
6817 meat, prepared	11	0	11	—	—
6822 dairy products	29	0	29	—	—
6835 fish, prepared	3	2	1	—	—
6838 tallow, animal oils	1	0	1	—	—
6839 animals & prod. nec	18	0	18	—	—
6856 bananas & plantains	0	0	—	—	—
6857 fruit & nuts nec	6	0	6	—	—
6858 fruit juices	29	12	16	—	—
6861 sugar	0	0	—	—	—
6871 coffee	1	1	0	—	—

COLUMBIA RIVER SYSTEM
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports
6872 cocoa beans	0	0	0	—	—
6885 alcoholic beverages	18	16	2	—	—
6888 water & ice	2	2	—	—	—
6889 food products nec	16	2	14	—	—
6891 tobacco & products	0	—	0	—	—
6893 cotton	1	—	1	—	—
6894 natural fibers nec	0	0	—	—	—
6899 farm products nec	24	4	20	—	—
Total all manufactured equipment, machinery and products	784	699	85	0	0
7110 machinery (not elec)	41	22	18	0	0
7120 electrical machinery	38	31	7	—	0
7210 vehicles & parts	578	551	27	—	0
7220 aircraft & parts	0	0	0	—	0
7230 ships & boats	0	0	0	—	—
7300 ordnance & access.	0	—	0	—	—
7400 manufac. wood prod.	13	3	9	—	—
7500 textile products	15	11	3	—	0
7600 rubber & plastic pr.	14	12	2	—	—
7900 manufac. prod. nec	85	68	18	—	0
Total unknown or not elsewhere classified	18	1	16	0	—
9900 unknown or nec	18	1	16	0	—
Ton-miles (x1000)	1,453,785	224,310	1,215,578	9,725	4,172
Foreign & Canadian					

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Outbound Upbound	Intra Upbound Downbnd	
Total, all commodities	18,711	5,132	526	65	8,782	4,206
Total petroleum and petroleum products	7,351	4,263	92	—	2,883	114
Subtotal crude petroleum	27	27	—	—	—	—
2100 crude petroleum	27	27	—	—	—	—
Subtotal petroleum products	7,325	4,236	92	—	2,883	114
2211 gasoline	4,163	2,702	1	—	1,459	—
2221 kerosene	18	18	—	—	—	—
2330 distillate fuel oil	2,040	987	23	—	1,025	4
2340 residual fuel oil	828	278	44	—	397	109
2350 lube oil & greases	112	111	—	—	1	0
2429 naphtha & solvents	9	—	9	—	—	—
2430 asphalt, tar & pitch	155	140	14	—	—	—
Total chemicals and related products	544	259	112	—	125	48
Subtotal fertilizers	245	104	46	—	62	33
3110 nitrogenous fert.	157	104	46	—	3	3
3190 fert. & mixes nec	88	—	—	—	59	29
Subtotal other chemicals and related products	299	155	66	—	63	15
3212 benzene & toluene	74	74	—	—	—	—
3220 alcohols	15	2	13	—	—	—
3272 sulphuric acid	0	—	0	—	—	—
3273 ammonia	92	40	23	—	29	—
3274 sodium hydroxide	117	39	29	—	33	15
3286 plastics	1	—	1	—	0	—
Total crude materials, inedible except fuels	4,980	610	276	—	1,977	2,118
Subtotal forest products, wood and chips	1,986	606	276	—	43	1,061
4150 fuel wood	1	—	—	—	—	1
4161 wood chips	1,303	464	46	—	2	791
4170 wood in the rough	472	142	21	—	41	269
4189 lumber	210	0	209	—	1	—
Subtotal pulp and waste paper	14	—	—	—	4	10
4225 pulp & waste paper	14	—	—	—	4	10
Subtotal soil, sand, gravel, rock and stone	2,961	—	—	—	1,914	1,047
4331 sand & gravel	2,961	—	—	—	1,914	1,047
Subtotal iron ore and scrap	15	4	—	—	11	—
4420 iron & steel scrap	15	4	—	—	11	—
Subtotal sulphur, clay and salt	3	—	—	—	3	—
4782 clay & refrac. mat.	3	—	—	—	3	—
Subtotal other non-metal. min.	1	—	—	—	1	—
4900 non-metal. min. nec	1	—	—	—	1	—
Total primary manufactured goods	127	0	42	—	73	12
Subtotal paper products	92	—	22	—	70	—
5190 paper products nec	92	—	22	—	70	—
Subtotal lime, cement and glass	0	0	0	—	0	—
5240 glass & glass prod.	0	—	0	—	—	—
5290 misc. mineral prod.	0	0	—	—	0	—

COLUMBIA RIVER SYSTEM
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Outbound Upbound	Intra Upbound	Downbnd
Subtotal primary iron and steel products	14	---	13	---	1	---
5330 i&s plates & sheets	0	---	0	---	---	---
5360 i&s bars & shapes	10	---	9	---	1	---
5370 i&s pipe & tube	4	---	3	---	0	---
Subtotal primary non-ferrous metal products	13	---	---	---	2	12
5422 aluminum	12	---	---	---	---	12
5480 fab. metal products	2	---	---	---	2	---
Subtotal primary wood products	7	---	7	---	---	---
5540 primary wood prod.	7	---	7	---	---	---
Total food and farm products	5,159	---	---	65	3,221	1,873
Subtotal fish	131	---	---	65	66	---
6134 fish (not shellfish)	113	---	---	53	60	---
6136 shellfish	18	---	---	12	6	---
Subtotal grain	4,861	---	---	---	2,988	1,873
6241 wheat	4,564	---	---	---	2,756	1,808
6344 corn	11	---	---	---	11	---
6443 barley & rye	287	---	---	---	222	65
Subtotal vegetable products	51	---	---	---	51	---
6654 vegetables & prod.	51	---	---	---	51	---
Subtotal processed grain and animal feed	80	---	---	---	80	---
6747 grain mill products	0	---	---	---	0	---
6781 hay & fodder	72	---	---	---	72	---
6782 animal feed, prep.	8	---	---	---	8	---
Subtotal other agricultural products	35	---	---	---	35	---
6822 dairy products	28	---	---	---	28	---
6839 animals & prod. nec	3	---	---	---	3	---
6889 food products nec	0	---	---	---	0	---
6899 farm products nec	4	---	---	---	4	---
Total all manufactured equipment, machinery and products	368	1	4	---	328	35
7110 machinery (not elec)	1	1	0	---	---	---
7210 vehicles & parts	0	---	0	---	---	---
7230 ships & boats	0	---	0	---	---	---
7400 manufac. wood prod.	0	0	---	---	---	---
7800 empty containers	320	---	3	---	282	35
7900 manufac. prod. nec	47	---	0	---	47	0
Total waste and scrap nec	181	---	---	---	175	6
8900 waste and scrap nec	181	---	---	---	175	6
Ton-miles (x1000)	723,781	76,112	22,921	65	359,336	265,347
Domestic						
Tons All Traffic (x1000)	51,766					
Ton-miles All Traffic (x1000)	2,177,566					

*Includes 214 (x1000) tons of foreign inbound in-transits; Includes 834 (x1000) tons of foreign outbound in-transits.

Other Harbors and Waterways 1999

Harbor or Waterway Project	Commodity	Thousand Short Tons
ALSEA BAY AND RIVER, OR	No Commerce Reported	
CHETCO RIVER, OR	6134 fish (not shellfish)	1
	6136 shellfish	2
	Total Tons(x1000)	3
	Total Ton-miles(x1000)	3
CHINOOK CHANNEL, WA	6134 fish (not shellfish)	0
	6136 shellfish	0
	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)	5
	6136 shellfish	1
	Total Tons(x1000)	6
	Total Ton-miles(x1000)	6
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	4170 wood in the rough	1
	Total Tons(x1000)	1
	Total Ton-miles(x1000)	3
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	6134 fish (not shellfish)	0
	6136 shellfish	0
	Total Tons(x1000)	0
	Total Ton-miles(x1000)	0
LEWIS RIVER, WA	No Commerce Reported	
PORT OF ST. HELENS, OR	No Commerce Reported	
PORT ORFORD, OR	6134 fish (not shellfish)	0
	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 1999 - 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)	1
SKAMOKAWA (STEAMBOAT) SLOUGH, WA	6134 fish (not shellfish)	0
	Total Tons(x1000)	0
	Total Ton-miles(x1000)	0
SKAMOKAWA CREEK, WA	No Commerce Reported	
SKIPANON CHANNEL, OR	4161 wood chips	11
	4170 wood in the rough	39
	4331 sand & gravel	8
	Total Tons(x1000)	58
	Total Ton-miles(x1000)	46
SMITH RIVER, OR	No Commerce Reported	
TILLAMOOK BAY AND BAR, OR	6134 fish (not shellfish)	0
	6136 shellfish	1
	Total Tons(x1000)	1
UMPQUA RIVER, OR	4331 sand & gravel	245
	6134 fish (not shellfish)	0
	6136 shellfish	0
	Total Tons(x1000)	246
	Total Ton-miles(x1000)	2,700
WESTPORT SLOUGH, OR	2350 lube oil & greases	0
	4331 sand & gravel	8
	Total Tons(x1000)	8
	Total Ton-miles(x1000)	8
YAQUINA BAY AND HARBOR, OR	3260 organic comp. nec	0
	4161 wood chips	8
	6134 fish (not shellfish)	41
	6136 shellfish	5
	Total Tons(x1000)	54
	Total Ton-miles(x1000)	100
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
1990	12,825	1993	4,383	1996	1,990	1999	1,406
1991	4,488	1994	1,654	1997	1,486		
1992	6,953	1995	1,566	1998	1,488		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			
		Imports	Exports*	Imports	Total	Coastwise		Internal Receipts
						Receipts	Shipments	
Total, all commodities	1,406	19	788	1	599	38	559	1
Total chemicals and related products	11	9	0	---	2	---	2	---
Subtotal fertilizers	7	7	---	---	---	---	---	---
3110 nitrogenous fert.	4	4	---	---	---	---	---	---
3190 fert. & mixes nec	4	4	---	---	---	---	---	---
Subtotal other chemicals and related products	4	1	0	---	2	---	2	---
3230 carboxylic acids	0	0	---	---	---	---	---	---
3240 nitrogen func. comp.	0	0	---	---	---	---	---	---
3274 sodium hydroxide	2	---	---	---	2	---	2	---
3276 metallic salts	0	0	---	---	---	---	---	---
3285 perfumes & cleansers	0	---	0	---	---	---	---	---
3286 plastics	1	1	---	---	---	---	---	---
3292 starches, gluten, glue	0	0	---	---	---	---	---	---
Total crude materials, inedible except fuels	1,383	---	787	---	596	38	557	---
Subtotal forest products, wood and chips	1,298	---	703	---	596	38	557	---
4161 wood chips	484	---	---	---	484	38	446	---
4170 wood in the rough	678	---	665	---	13	---	13	---
4189 lumber	137	---	38	---	98	---	98	---
4190 forest products nec	0	---	0	---	---	---	---	---
Subtotal pulp and waste paper	84	---	84	---	---	---	---	---
4225 pulp & waste paper	84	---	84	---	---	---	---	---
Total primary manufactured goods	9	9	0	---	---	---	---	---
Subtotal paper products	0	0	0	---	---	---	---	---
5120 paper & paperboard	0	0	0	---	---	---	---	---
Subtotal lime, cement and glass	0	0	---	---	---	---	---	---
5240 glass & glass prod.	0	0	---	---	---	---	---	---
Subtotal primary iron and steel products	6	6	---	---	---	---	---	---
5330 i&s plates & sheets	4	4	---	---	---	---	---	---
5360 i&s bars & shapes	2	2	---	---	---	---	---	---
5370 i&s pipe & tube	0	0	---	---	---	---	---	---
5390 primary i&s nec	0	0	---	---	---	---	---	---
Subtotal primary non-ferrous metal products	3	3	---	---	---	---	---	---
5480 fab. metal products	3	3	---	---	---	---	---	---
Total food and farm products	3	1	1	1	1	---	---	1
Subtotal fish	2	---	1	1	1	---	---	1
6134 fish (not shellfish)	2	---	1	1	0	---	---	0
6136 shellfish	1	---	---	---	1	---	---	1
Subtotal other agricultural products	1	1	---	---	---	---	---	---
6885 alcoholic beverages	0	0	---	---	---	---	---	---
6888 water & ice	1	1	---	---	---	---	---	---
6889 food products nec	0	0	---	---	---	---	---	---
Total all manufactured equipment, machinery and products	0	0	0	0	---	---	---	---
7110 machinery (not elec)	0	0	0	---	---	---	---	---
7120 electrical machinery	0	---	0	---	---	---	---	---
7230 ships & boats	0	0	---	0	---	---	---	---
7500 textile products	0	0	---	---	---	---	---	---
7600 rubber & plastic pr.	0	0	---	---	---	---	---	---
7900 manufac. prod. nec	0	0	---	---	---	---	---	---

GRAYS HARBOR AND CHEHALIS RIVER, WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			
		Imports	Exports*	Imports	Total	Coastwise		Internal Receipts
						Receipts	Shipments	
Total unknown or not elsewhere classified	0	0	0	---	---	---	---	
9900 unknown or nec	0	0	0	---	---	---	---	

*Includes 27 (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 mllw.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	3,072	1993	1,987	1996	2,780	1999	2,237
1991	2,680	1994	1,695	1997	2,377		
1992	2,336	1995	1,911	1998	2,417		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
Total, all commodities	779	102	376	287	15
Total petroleum and petroleum products	132	102	16	---	14
Subtotal crude petroleum	102	102	---	---	---
2100 crude petroleum	102	102	---	---	---
Subtotal petroleum products	31	---	16	---	14
2340 residual fuel oil	14	---	---	---	14
2540 petroleum coke	16	---	16	---	---
Total chemicals and related products	0	---	0	---	---
Subtotal other chemicals and related products	0	---	0	---	---
3298 wood & resin chem.	0	---	0	---	---
Total crude materials, inedible except fuels	618	---	344	274	---
Subtotal forest products, wood and chips	486	---	344	141	---
4150 fuel wood	0	---	---	0	---
4161 wood chips	348	---	259	89	---
4170 wood in the rough	136	---	85	51	---
4189 lumber	1	---	0	1	---
Subtotal pulp and waste paper	3	---	---	3	---
4225 pulp & waste paper	3	---	---	3	---
Subtotal soil, sand, gravel, rock and stone	130	---	---	130	---
4331 sand & gravel	130	---	---	130	---
Subtotal non-ferrous ores and scrap	0	---	---	0	---
4680 non-ferrous scrap	0	---	---	0	---
Total primary manufactured goods	12	---	0	12	---
Subtotal paper products	10	---	---	10	---
5110 newsprint	1	---	---	1	---
5120 paper & paperboard	9	---	---	9	---
Subtotal lime, cement and glass	0	---	---	0	---
5290 misc. mineral prod.	0	---	---	0	---
Subtotal primary non-ferrous metal products	0	---	0	---	---
5429 smelted prod. nec	0	---	0	---	---
Subtotal primary wood products	2	---	---	2	---
5540 primary wood prod.	2	---	---	2	---
Total food and farm products	16	---	16	0	---
Subtotal fish	15	---	15	---	---
6134 fish (not shellfish)	15	---	15	---	---
Subtotal other agricultural products	1	---	1	0	---
6838 tallow, animal oils	1	---	1	---	---
6899 farm 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
7210 vehicles & parts	0	---	---	0	---
7230 ships & boats	0	---	---	0	---
7400 manufac. wood prod.	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	0	---	---	0	---
9900 unknown or nec	0	---	---	0	---

PORT ANGELES HARBOR, WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	1,458	14	281	428	508	228
Total petroleum and petroleum products	635	11	8	325	64	228
Subtotal petroleum products	635	11	8	325	64	228
2211 gasoline	8	—	8	—	—	—
2330 distillate fuel oil	45	—	—	30	11	3
2340 residual fuel oil	571	—	—	294	52	224
2350 lube oil & greases	0	—	—	0	—	0
2430 asphalt, tar & pitch	11	11	—	—	—	—
Total crude materials, inedible except fuels	822	3	272	102	444	—
Subtotal forest products, wood and chips	810	3	272	102	433	—
4161 wood chips	88	1	23	—	64	—
4170 wood in the rough	722	2	250	102	369	—
Subtotal iron ore and scrap	12	—	—	—	12	—
4420 iron & steel scrap	12	—	—	—	12	—
Subtotal other non-metal. min.	0	—	—	0	—	—
4900 non-metal. min. nec	0	—	—	0	—	—
Total primary manufactured goods	0	—	—	0	—	—
Subtotal paper products	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	1	—	—	1	—	—
Subtotal fish	1	—	—	1	—	—
6134 fish (not shellfish)	1	—	—	1	—	—
6136 shellfish	0	—	—	0	—	—
Total all manufactured equipment, machinery and products	0	—	—	0	—	—
7900 manufac. prod. nec	0	—	—	0	—	—

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 mlw 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
1990	427	1993	201	1996	464	1999	335
1991	546	1994	402	1997	412		
1992	325	1995	362	1998	456		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign Exports	Canadian		Domestic				
			Imports	Exports	Total	Coastwise		Internal	
						Receipts	Shipments	Receipts	Shipments
Total, all commodities	335	5	51	8	271	3	217	52	
Total petroleum and petroleum products	37	—	—	—	37	3	29	6	
Subtotal petroleum products	37	—	—	—	37	3	29	6	
2330 distillate fuel oil	2	—	—	—	2	—	2	—	
2340 residual fuel oil	35	—	—	—	35	3	27	6	
Total crude materials, inedible except fuels	296	5	51	8	233	—	186	46	
Subtotal forest products, wood and chips	296	5	51	8	233	—	186	46	
4150 fuel wood	5	—	2	3	—	—	—	—	
4161 wood chips	200	—	49	5	146	—	146	—	
4170 wood in the rough	92	5	—	—	87	—	41	46	
Total primary manufactured goods	0	—	—	—	0	—	0	0	
Subtotal primary non-ferrous metal products	0	—	—	—	0	—	0	0	
5480 fab. metal products	0	—	—	—	0	—	0	0	

PORT TOWNSEND HARBOR, WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Exports	Imports	Exports	Total	Coastwise		Internal
						Receipts	Receipts	Shipments
Total food and farm products	1	---	---	---	1	---	1	---
Subtotal fish	1	---	---	---	1	---	1	---
6134 fish (not shellfish)	0	---	---	---	0	---	0	---
6136 shellfish	1	---	---	---	1	---	1	---
Total all manufactured equipment, machinery and products	0	0	---	---	---	---	---	---
7120 electrical machinery	0	0	---	---	---	---	---	---
7300 ordnance & access.	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
1990	325	1993	384	1996	1,037	1999	543
1991	343	1994	500	1997	633		
1992	312	1995	872	1998	635		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Internal		
		Inbound	Outbound	Intra
		Upbound	Downbnd	Upbound
Total, all commodities	543	210	327	6
Total crude materials, inedible except fuels	540	208	327	6
Subtotal forest products, wood and chips	540	208	327	6
4161 wood chips	169	---	163	6
4170 wood in the rough	371	208	163	---
Total food and farm products	3	3	---	---
Subtotal fish	3	3	---	---
6134 fish (not shellfish)	0	0	---	---
6136 shellfish	2	2	---	---
Ton-miles (x1000)	5,373	2,101	3,267	6
Tons All Traffic (x1000)	543			
Ton-miles All Traffic (x1000)	5,378			

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

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
1990	1,265	1993	924	1996	1,893	1999	1,313
1991	945	1994	1,514	1997	1,997		
1992	714	1995	2,166	1998	1,423		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
Total, all commodities	130	14	77	11	28
Total petroleum and petroleum products	28	---	---	---	28
Subtotal petroleum products	28	---	---	---	28
2540 petroleum coke	28	---	---	---	28
Total chemicals and related products	0	---	0	---	---
Subtotal other chemicals and related products	0	---	0	---	---
3250 organo - inorg. comp.	0	---	0	---	---
3260 organic comp. nec	0	---	0	---	---
3284 medicines	0	---	0	---	---

OLYMPIA HARBOR, WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
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	86	—	75	11	—
Subtotal forest products, wood and chips	81	—	73	9	—
4170 wood in the rough	81	—	73	9	—
4189 lumber	0	—	0	—	—
4190 forest products nec	0	—	0	—	—
Subtotal pulp and waste paper	5	—	2	2	—
4225 pulp & waste paper	5	—	2	2	—
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	—	—
Total primary manufactured goods	0	—	0	—	—
Subtotal paper products	0	—	0	—	—
5190 paper products nec	0	—	0	—	—
Subtotal lime, cement and glass	0	—	0	—	—
5240 glass & glass prod.	0	—	0	—	—
Subtotal primary non-ferrous metal products	0	—	0	—	—
5421 copper	0	—	0	—	—
5480 fab. metal products	0	—	0	—	—
Total food and farm products	15	14	1	—	—
Subtotal oilseeds	14	14	—	—	—
6590 oilseeds nec	14	14	—	—	—
Subtotal vegetable products	0	—	0	—	—
6653 vegetable oils	0	—	0	—	—
6654 vegetables & prod.	0	—	0	—	—
Subtotal processed grain and animal feed	0	—	0	—	—
6782 animal feed, prep.	0	—	0	—	—
Subtotal other agricultural products	1	—	1	—	—
6811 meat, fresh, frozen	1	—	1	—	—
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	1	—	1	—	—
7110 machinery (not elec)	0	—	0	—	—
7120 electrical machinery	0	—	0	—	—
7210 vehicles & parts	0	—	0	—	—
7230 ships & boats	0	—	0	—	—
7300 ordnance & access.	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	0	—	0	—	—
9900 unknown or nec	0	—	0	—	—

Commodity	Total	Domestic			
		Coastwise Receipts	Internal		
			Receipts	Shipments	Intrпорт
Total, all commodities	1,183	5	423	368	387
Total petroleum and petroleum products	1	—	1	—	—
Subtotal petroleum products	1	—	1	—	—
2340 residual fuel oil	1	—	1	—	—
Total crude materials, inedible except fuels	1,179	5	419	368	387
Subtotal forest products, wood and chips	1,179	5	419	368	387
4161 wood chips	114	—	4	110	—
4170 wood in the rough	1,065	5	415	258	387
Total primary manufactured goods	3	—	3	—	—
Subtotal lime, cement and glass	3	—	3	—	—
5290 misc. mineral prod.	3	—	3	—	—
Total food and farm products	1	—	1	—	—
Subtotal fish	1	—	1	—	—
6134 fish (not shellfish)	0	—	0	—	—
6136 shellfish	1	—	1	—	—

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
1990	21,433	1993	18,652	1996	21,491	1999	21,103
1991	19,544	1994	17,616	1997	20,683		
1992	20,116	1995	20,879	1998	17,400		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports
Total, all commodities	13,323	3,780	8,843	565	135
Total coal	33	---	0	33	---
1100 coal lignite	33	---	0	33	---
Total petroleum and petroleum products	158	0	38	94	25
Subtotal crude petroleum	24	---	---	24	---
2100 crude petroleum	24	---	---	24	---
Subtotal petroleum products	134	0	38	70	25
2211 gasoline	9	---	---	9	---
2330 distillate fuel oil	25	---	0	25	0
2340 residual fuel oil	81	---	31	36	14
2350 lube oil & greases	4	0	4	---	---
2410 petro. jelly & waxes	0	0	0	---	---
2429 naphtha & solvents	12	0	1	---	11
2430 asphalt, tar & pitch	2	0	1	---	---
2540 petroleum coke	0	---	0	---	---
2640 liquid natural gas	0	0	0	---	---
Total chemicals and related products	551	145	310	0	96
Subtotal fertilizers	29	0	29	---	---
3110 nitrogenous fert.	1	0	1	---	---
3120 phosphatic fert.	0	---	0	---	---
3130 potassic fert.	27	---	27	---	---
3190 fert. & mixes nec	1	0	1	---	---
Subtotal other chemicals and related products	522	145	281	0	96
3211 acyclic hydrocarbons	0	0	0	---	---
3212 benzene & toluene	0	0	0	---	---
3219 other hydrocarbons	2	1	2	---	---
3220 alcohols	56	38	19	---	---
3230 carboxylic acids	20	5	15	---	---
3240 nitrogen func. comp.	17	5	12	---	0
3250 organo - inorg. comp.	15	4	10	---	---
3260 organic comp. nec	5	2	4	---	---
3272 sulphuric acid	0	0	0	---	---
3273 ammonia	0	0	---	---	---
3274 sodium hydroxide	41	7	0	---	34
3275 inorg. elem., oxides, & halogen salts	15	4	10	---	0
3276 metallic salts	77	4	11	---	61
3279 inorganic chem. nec	2	1	0	---	---
3281 radioactive material	0	---	0	---	---
3282 pigments & paints	11	3	8	---	0
3283 coloring mat. nec	6	4	2	---	---
3284 medicines	7	2	5	---	---
3285 perfumes & cleansers	14	2	13	---	0
3286 plastics	175	48	127	0	0
3291 pesticides	1	0	1	---	---
3292 starches, gluten, glue	15	5	10	---	---
3293 explosives	6	6	0	---	---
3297 chemical additives	5	0	5	---	---
3298 wood & resin chem.	15	0	15	---	---
3299 chem. products nec	17	4	13	---	---
Total crude materials, inedible except fuels	3,991	1,309	2,277	393	13
Subtotal forest products, wood and chips	1,724	31	1,625	62	7
4110 rubber & gums	17	17	---	---	---
4150 fuel wood	2	0	2	---	0
4161 wood chips	561	---	555	---	7
4170 wood in the rough	951	0	890	62	---
4189 lumber	190	12	178	0	---
4190 forest products nec	2	2	0	---	---
Subtotal pulp and waste paper	299	8	290	2	---
4225 pulp & waste paper	299	8	290	2	---
Subtotal soil, sand, gravel, rock and stone	575	351	3	215	5
4310 building stone	3	1	0	2	---
4322 limestone	214	---	1	213	---
4323 gypsum	356	351	0	---	5
4331 sand & gravel	2	0	2	---	---
Subtotal iron ore and scrap	363	0	279	84	---
4410 iron ore	2	---	2	---	---
4420 iron & steel scrap	361	0	277	84	---

TACOMA HARBOR, WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports
Subtotal marine shells	0	0	---	---	---
4515 marine shells	0	0	---	---	---
Subtotal non-ferrous ores and scrap	560	533	26	---	---
4630 copper ore	0	---	0	---	---
4650 aluminum ore	533	532	1	---	---
4680 non-ferrous scrap	25	1	25	---	---
4690 non-ferrous ores nec	1	0	1	---	---
Subtotal sulphur, clay and salt	46	0	45	---	---
4741 sulphur, (dry)	0	---	0	---	---
4782 clay & refrac. mat.	46	0	45	---	---
Subtotal slag	0	---	0	---	---
4860 slag	0	---	0	---	---
Subtotal other non-metal. min.	424	385	9	30	---
4900 non-metal. min. nec	424	385	9	30	---
Total primary manufactured goods	975	487	444	44	0
Subtotal paper products	348	26	320	2	---
5110 newsprint	26	0	24	2	---
5120 paper & paperboard	269	13	256	---	---
5190 paper products nec	54	14	40	---	---
Subtotal lime, cement and glass	130	106	25	0	0
5210 lime	0	0	---	---	---
5220 cement & concrete	10	9	0	---	---
5240 glass & glass prod.	29	18	10	0	0
5290 misc. mineral prod.	92	78	14	0	---
Subtotal primary iron and steel products	101	87	14	---	---
5312 pig iron	3	0	3	---	---
5315 ferro alloys	2	0	2	---	---
5320 i&s primary forms	0	0	0	---	---
5330 i&s plates & sheets	41	35	6	---	---
5360 i&s bars & shapes	28	27	1	---	---
5370 i&s pipe & tube	14	13	1	---	---
5390 primary i&s nec	13	13	1	---	---
Subtotal primary non-ferrous metal products	316	259	56	0	0
5421 copper	10	8	2	---	---
5422 aluminum	23	3	20	---	0
5429 smelted prod. nec	25	1	24	---	---
5480 fab. metal products	257	247	10	0	0
Subtotal primary wood products	80	8	30	41	---
5540 primary wood prod.	80	8	30	41	---
Total food and farm products	5,752	158	5,592	1	1
Subtotal fish	35	17	18	---	0
6134 fish (not shellfish)	22	6	16	---	0
6136 shellfish	13	11	2	---	---
Subtotal grain	3,949	6	3,942	---	0
6241 wheat	26	---	26	---	---
6344 corn	3,833	0	3,833	---	---
6442 rice	7	6	0	---	0
6443 barley & rye	0	---	0	---	---
6445 oats	1	---	1	---	---
6447 sorghum grains	82	---	82	---	---
Subtotal oilseeds	320	0	320	---	---
6521 peanuts	0	---	0	---	---
6522 soybeans	308	0	308	---	---
6534 flaxseed	0	---	0	---	---
6590 oilseeds nec	12	0	12	---	---
Subtotal vegetable products	266	16	249	1	0
6653 vegetable oils	4	0	4	---	0
6654 vegetables & prod.	262	16	245	1	0
Subtotal processed grain and animal feed	444	1	442	0	---
6746 wheat flour	3	0	3	---	---
6747 grain mill products	18	1	17	---	---
6781 hay & fodder	303	0	303	0	---
6782 animal feed, prep.	120	1	120	---	---
Subtotal other agricultural products	739	117	621	0	0
6811 meat, fresh, frozen	270	2	267	0	---
6817 meat, prepared	4	---	4	---	---
6822 dairy products	24	0	24	---	---
6835 fish, prepared	8	6	1	---	---
6838 tallow, animal oils	50	---	50	---	---
6839 animals & prod. nec	29	1	29	---	---
6856 bananas & plantains	0	0	---	---	---
6857 fruit & nuts nec	161	11	150	---	0
6858 fruit juices	100	80	20	0	0
6861 sugar	1	0	1	---	---
6871 coffee	4	4	1	---	---
6872 cocoa beans	1	1	0	---	---
6885 alcoholic beverages	17	3	14	---	0
6888 water & ice	1	0	1	---	---
6889 food products nec	54	7	48	---	0
6891 tobacco & products	5	1	4	---	---
6893 cotton	5	0	5	---	---
6894 natural fibers nec	1	1	0	---	---
6899 farm products nec	3	0	3	---	---

TACOMA HARBOR, WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports
Total all manufactured equipment, machinery and products	1,829	1,666	162	0	1
7110 machinery (not elec)	301	241	60	—	0
7120 electrical machinery	283	271	12	0	—
7210 vehicles & parts	280	258	22	—	0
7220 aircraft & parts	2	2	0	0	—
7230 ships & boats	1	1	0	0	—
7300 ordnance & access.	1	0	0	—	—
7400 manufac. wood prod.	32	24	8	—	—
7500 textile products	132	117	15	—	0
7600 rubber & plastic pr.	128	117	11	—	0
7900 manufac. prod. nec	669	636	33	0	0
Total unknown or not elsewhere classified	34	14	19	0	—
9900 unknown or nec	34	14	19	0	—

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intrпорт
Total, all commodities	7,781	2,127	1,945	2,229	854	626
Total coal	0	—	0	—	—	—
1200 coal coke	0	—	0	—	—	—
Total petroleum and petroleum products	4,434	1,841	385	1,018	599	591
Subtotal crude petroleum	1,770	1,770	—	—	—	—
2100 crude petroleum	1,770	1,770	—	—	—	—
Subtotal petroleum products	2,663	71	385	1,018	599	591
2211 gasoline	337	10	15	256	44	12
2330 distillate fuel oil	562	10	269	130	147	6
2340 residual fuel oil	1,698	37	89	594	405	572
2350 lube oil & greases	16	—	12	4	—	—
2430 asphalt, tar & pitch	41	14	—	27	—	—
2540 petroleum coke	0	—	0	—	—	—
2640 liquid natural gas	0	—	0	—	—	—
2990 petro. products nec	9	—	0	6	3	—
Total chemicals and related products	179	8	144	—	14	13
Subtotal fertilizers	0	—	0	—	—	—
3130 potassic fert.	0	—	0	—	—	—
3190 fert. & mixes nec	0	—	0	—	—	—
Subtotal other chemicals and related products	179	8	144	—	14	13
3220 alcohols	3	—	—	—	3	—
3230 carboxylic acids	0	—	0	—	—	—
3260 organic comp. nec	0	—	0	—	—	—
3274 sodium hydroxide	141	—	121	—	7	13
3275 inorg. elem., oxides, & halogen salts	4	—	—	—	4	—
3284 medicines	0	—	0	—	—	—
3286 plastics	0	—	0	—	—	—
3297 chemical additives	6	—	6	—	—	—
3298 wood & resin chem.	0	—	0	—	—	—
3299 chem. products nec	24	8	16	—	—	—
Total crude materials, inedible except fuels	1,473	3	28	1,200	220	23
Subtotal forest products, wood and chips	1,356	—	23	1,102	208	23
4161 wood chips	153	—	—	147	—	6
4170 wood in the rough	1,180	—	—	955	208	17
4189 lumber	23	—	23	—	—	—
4190 forest products nec	0	—	0	—	—	—
Subtotal pulp and waste paper	1	—	1	—	—	—
4225 pulp & waste paper	1	—	1	—	—	—
Subtotal soil, sand, gravel, rock and stone	77	—	—	77	—	—
4331 sand & gravel	77	—	—	77	—	—
Subtotal iron ore and scrap	39	3	4	21	12	—
4420 iron & steel scrap	39	3	4	21	12	—
Subtotal non-ferrous ores and scrap	0	0	—	—	—	—
4680 non-ferrous scrap	0	0	—	—	—	—
Total primary manufactured goods	100	3	76	3	18	—
Subtotal paper products	15	—	15	—	—	—
5120 paper & paperboard	1	—	1	—	—	—
5190 paper products nec	13	—	13	—	—	—
Subtotal lime, cement and glass	31	0	19	3	9	—
5290 misc. mineral prod.	31	0	19	3	9	—
Subtotal primary iron and steel products	3	—	3	0	0	—
5330 i&s plates & sheets	0	—	0	—	—	—
5360 i&s bars & shapes	2	—	2	—	—	—
5370 i&s pipe & tube	0	—	0	0	0	—
Subtotal primary non-ferrous metal products	51	3	40	—	8	—
5480 fab. metal products	51	3	40	—	8	—

TACOMA HARBOR, WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Subtotal primary wood products	0	---	0	---	---	---
5540 primary wood prod.	0	---	0	---	---	---
Total food and farm products	411	37	373	1	---	---
Subtotal fish	34	33	---	1	---	---
6134 fish (not shellfish)	33	33	---	1	---	---
6136 shellfish	1	---	---	1	---	---
Subtotal grain	0	---	0	---	---	---
6443 barley & rye	0	---	0	---	---	---
Subtotal vegetable products	1	---	1	---	---	---
6654 vegetables & prod.	1	---	1	---	---	---
Subtotal processed grain and animal feed	4	---	4	---	---	---
6746 wheat flour	3	---	3	---	---	---
6747 grain mill products	0	---	0	---	---	---
6782 animal feed, prep.	1	---	1	---	---	---
Subtotal other agricultural products	372	4	368	---	---	---
6811 meat, fresh, frozen	0	---	0	---	---	---
6817 meat, prepared	1	---	1	---	---	---
6835 fish, prepared	3	3	---	---	---	---
6838 tallow, animal oils	0	---	0	---	---	---
6839 animals & prod. nec	11	1	10	---	---	---
6857 fruit & nuts nec	2	0	2	---	---	---
6858 fruit juices	0	---	0	---	---	---
6871 coffee	0	---	0	---	---	---
6885 alcoholic beverages	0	---	0	---	---	---
6887 groceries	353	---	353	---	---	---
6889 food products nec	1	---	1	---	---	---
6891 tobacco & products	0	---	0	---	---	---
6894 natural fibers nec	0	---	0	---	---	---
6899 farm products nec	1	---	1	---	---	---
Total all manufactured equipment, machinery and products	1,163	230	924	6	3	---
7110 machinery (not elec)	1	0	0	1	---	---
7120 electrical machinery	0	---	0	---	---	---
7210 vehicles & parts	70	22	48	---	0	---
7400 manufac. wood prod.	19	0	19	---	---	---
7500 textile products	21	13	8	---	---	---
7600 rubber & plastic pr.	0	---	0	---	---	---
7900 manufac. prod. nec	1,052	195	849	5	3	---
Total unknown or not elsewhere classified	21	4	16	---	---	---
9900 unknown or nec	21	4	16	---	---	---

*Includes 285 (x1000) tons of foreign inbound in-transits; Includes 273 (x1000) tons of foreign outbound in-transits;
Includes 6 (x1000) tons of Canadian inbound 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
1990	21,570	1993	21,693	1996	23,547	1999	25,443
1991	20,897	1994	22,336	1997	26,564		
1992	21,883	1995	26,180	1998	22,594		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
Total, all commodities	16,389	5,191	7,238	3,840	119
Total coal	129	1	2	127	---
1100 coal lignite	129	1	2	127	---
Total petroleum and petroleum products	200	16	157	0	27
Subtotal crude petroleum	13	13	---	---	---
2100 crude petroleum	13	13	---	---	---
Subtotal petroleum products	187	3	157	0	27
2211 gasoline	4	---	---	---	4

SEATTLE HARBOR, WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
2221 kerosene	0	—	—	—	0
2330 distillate fuel oil	4	0	0	—	4
2340 residual fuel oil	123	—	114	—	9
2350 lube oil & greases	5	1	5	—	—
2410 petro. jelly & waxes	2	2	0	—	—
2429 naphtha & solvents	36	—	36	—	—
2430 asphalt, tar & pitch	1	0	1	—	—
2540 petroleum coke	11	0	1	—	10
2640 liquid natural gas	1	0	0	0	—
Total chemicals and related products	583	243	295	11	34
Subtotal fertilizers	16	0	11	5	—
3110 nitrogenous fert.	5	0	0	4	—
3120 phosphatic fert.	0	—	0	—	—
3130 potassic fert.	0	—	0	—	—
3190 fert. & mixes nec	11	0	11	0	—
Subtotal other chemicals and related products	567	243	285	6	34
3211 acyclic hydrocarbons	0	0	0	—	—
3212 benzene & toluene	0	0	0	—	—
3219 other hydrocarbons	3	0	2	—	—
3220 alcohols	21	17	5	—	—
3230 carboxylic acids	22	11	11	0	—
3240 nitrogen func. comp.	27	19	8	—	0
3250 organo - inorg. comp.	10	6	4	—	—
3260 organic comp. nec	10	2	8	—	—
3272 sulphuric acid	1	1	0	—	—
3273 ammonia	0	—	0	—	—
3274 sodium hydroxide	11	0	1	—	10
3275 inorg. elem., oxides, & halogen salts	28	11	14	2	0
3276 metallic salts	49	15	10	0	23
3279 inorganic chem. nec	6	1	1	4	—
3281 radioactive material	2	1	1	—	—
3282 pigments & paints	14	6	7	—	0
3283 coloring mat. nec	8	7	1	—	—
3284 medicines	5	3	2	0	—
3285 perfumes & cleansers	22	5	18	—	0
3286 plastics	194	101	93	0	0
3291 pesticides	2	1	1	—	—
3292 starches, gluten, glue	28	15	13	0	—
3293 explosives	4	4	0	—	—
3297 chemical additives	7	1	5	—	0
3298 wood & resin chem.	64	0	63	0	—
3299 chem. products nec	30	13	17	—	0
Total crude materials, inedible except fuels	4,725	906	954	2,810	55
Subtotal forest products, wood and chips	702	120	330	223	29
4110 rubber & gums	48	48	0	—	—
4150 fuel wood	7	0	1	—	5
4161 wood chips	25	—	1	—	24
4170 wood in the rough	81	1	81	—	—
4189 lumber	536	68	245	223	—
4190 forest products nec	5	4	1	—	—
Subtotal pulp and waste paper	397	1	362	33	—
4225 pulp & waste paper	397	1	362	33	—
Subtotal soil, sand, gravel, rock and stone	3,130	694	59	2,353	25
4310 building stone	2	1	1	—	—
4322 limestone	1,730	—	0	1,730	—
4323 gypsum	846	692	3	130	21
4327 phosphate rock	1	0	1	—	—
4331 sand & gravel	551	2	53	492	4
Subtotal iron ore and scrap	195	1	31	163	—
4410 iron ore	8	—	8	—	—
4420 iron & steel scrap	187	1	24	163	—
Subtotal marine shells	0	0	0	—	—
4515 marine shells	0	0	0	—	—
Subtotal non-ferrous ores and scrap	37	5	32	—	1
4630 copper ore	3	0	3	—	—
4650 aluminum ore	2	2	1	—	—
4670 manganese ore	0	0	—	—	—
4680 non-ferrous scrap	29	2	27	—	—
4690 non-ferrous ores nec	3	1	1	—	1
Subtotal sulphur, clay and salt	70	1	69	—	—
4741 sulphur, (dry)	7	—	7	—	—
4782 clay & refrac. mat.	63	1	62	—	—
Subtotal slag	1	0	0	—	—
4860 slag	1	0	0	—	—
Subtotal other non-metal. min.	193	85	71	38	—
4900 non-metal. min. nec	193	85	71	38	—
Total primary manufactured goods	2,379	939	560	879	0
Subtotal paper products	621	71	377	172	0
5110 newsprint	158	1	36	122	—
5120 paper & paperboard	413	44	318	51	0
5190 paper products nec	50	27	23	0	0
Subtotal lime, cement and glass	787	267	69	450	0
5210 lime	0	0	0	—	—

SEATTLE HARBOR, WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports*	Exports*
5220 cement & concrete	556	128	1	427	—
5240 glass & glass prod.	50	39	11	0	0
5290 misc. mineral prod.	180	100	56	23	0
Subtotal primary iron and steel products	176	159	17	1	0
5312 pig iron	1	1	0	—	—
5315 ferro alloys	2	1	1	—	—
5320 i&s primary forms	2	1	1	—	—
5330 i&s plates & sheets	63	53	11	0	—
5360 i&s bars & shapes	27	25	1	0	—
5370 i&s pipe & tube	61	60	2	0	0
5390 primary i&s nec	20	19	1	0	—
Subtotal primary non-ferrous metal products	486	418	68	0	0
5421 copper	13	11	3	0	—
5422 aluminum	61	17	44	0	0
5429 smelted prod. nec	7	3	4	0	—
5480 fab. metal products	404	387	17	0	0
Subtotal primary wood products	309	24	30	255	—
5540 primary wood prod.	309	24	30	255	—
Total food and farm products	5,295	305	4,987	1	3
Subtotal fish	117	39	78	—	1
6134 fish (not shellfish)	97	23	73	—	1
6136 shellfish	21	16	4	—	0
Subtotal grain	2,054	17	2,037	—	—
6241 wheat	102	—	102	—	—
6344 corn	1,922	0	1,922	—	—
6442 rice	19	17	3	—	—
6443 barley & rye	0	—	0	—	—
6445 oats	1	—	1	—	—
6447 sorghum grains	9	—	9	—	—
Subtotal oilseeds	388	2	386	0	—
6521 peanuts	1	0	0	—	—
6522 soybeans	351	0	351	—	—
6534 flaxseed	0	—	0	—	—
6590 oilseeds nec	36	2	35	0	—
Subtotal vegetable products	466	17	449	—	0
6653 vegetable oils	3	1	2	—	0
6654 vegetables & prod.	463	16	446	—	0
Subtotal processed grain and animal feed	1,048	10	1,038	0	—
6746 wheat flour	9	0	9	—	—
6747 grain mill products	26	3	23	—	—
6781 hay & fodder	626	0	626	0	—
6782 animal feed, prep.	387	7	380	—	—
Subtotal other agricultural products	1,222	220	1,000	0	1
6811 meat, fresh, frozen	438	22	416	0	—
6817 meat, prepared	7	0	6	—	—
6822 dairy products	42	3	39	0	—
6835 fish, prepared	29	10	19	—	0
6838 tallow, animal oils	35	0	35	—	—
6839 animals & prod. nec	125	9	116	—	—
6856 bananas & plantains	0	0	—	—	—
6857 fruit & nuts nec	240	55	185	—	0
6858 fruit juices	69	27	42	0	0
6861 sugar	0	0	0	—	—
6865 molasses	2	2	—	—	—
6871 coffee	34	32	1	—	0
6872 cocoa beans	3	3	0	—	—
6885 alcoholic beverages	61	31	31	0	—
6888 water & ice	4	0	4	0	—
6889 food products nec	89	19	70	—	0
6891 tobacco & products	4	1	3	—	—
6893 cotton	4	0	4	—	1
6894 natural fibers nec	1	1	0	—	—
6899 farm products nec	34	5	29	—	—
Total all manufactured equipment, machinery and products	3,029	2,760	257	11	1
7110 machinery (not elec)	504	435	69	0	0
7120 electrical machinery	497	465	31	1	0
7210 vehicles & parts	404	372	31	0	0
7220 aircraft & parts	7	6	0	0	—
7230 ships & boats	5	1	3	0	0
7300 ordnance & access.	2	1	1	—	—
7400 manufac. wood prod.	59	33	17	9	—
7500 textile products	339	322	17	0	0
7600 rubber & plastic pr.	230	208	22	0	0
7900 manufac. prod. nec	981	916	65	0	0
Total unknown or not elsewhere classified	48	20	26	2	0
9900 unknown or nec	48	20	26	2	0

SEATTLE HARBOR, WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	9,054	478	1,185	4,681	1,194	1,516
Total coal	1	—	—	0	1	—
1100 coal lignite	1	—	—	0	1	—
Total petroleum and petroleum products	4,329	112	191	2,113	652	1,261
Subtotal crude petroleum	24	2	21	—	—	—
2100 crude petroleum	24	2	21	—	—	—
Subtotal petroleum products	4,305	110	170	2,113	652	1,261
2211 gasoline	685	—	0	652	28	5
2330 distillate fuel oil	569	30	129	253	52	104
2340 residual fuel oil	2,937	70	36	1,151	529	1,151
2350 lube oil & greases	16	0	1	5	9	1
2429 naphtha & solvents	8	—	3	—	5	—
2430 asphalt, tar & pitch	65	9	—	29	27	—
2540 petroleum coke	0	—	—	—	0	—
2640 liquid natural gas	0	0	—	—	—	—
2990 petro. products nec	25	0	1	22	2	—
Total chemicals and related products	49	1	26	6	11	5
Subtotal fertilizers	21	0	20	—	2	—
3110 nitrogenous fert.	2	—	—	—	2	—
3190 fert. & mixes nec	20	0	20	—	—	—
Subtotal other chemicals and related products	28	1	7	6	9	5
3220 alcohols	8	—	—	3	—	5
3260 organic comp. nec	0	—	0	—	—	—
3275 inorg. elem., oxides, & halogen salts	1	—	1	—	—	—
3276 metallic salts	2	—	—	—	2	—
3281 radioactive material	0	0	—	—	—	—
3282 pigments & paints	2	0	0	—	1	—
3284 medicines	0	—	0	—	0	—
3285 perfumes & cleansers	0	—	0	—	—	—
3286 plastics	4	—	4	—	0	—
3291 pesticides	0	—	0	—	—	—
3293 explosives	1	—	1	—	—	—
3299 chem. products nec	9	0	0	3	6	—
Total crude materials, inedible except fuels	3,073	20	145	2,462	238	208
Subtotal forest products, wood and chips	175	1	124	8	41	1
4110 rubber & gums	0	—	—	0	0	—
4150 fuel wood	0	—	—	0	—	0
4161 wood chips	3	—	—	2	2	—
4170 wood in the rough	28	—	—	1	25	1
4189 lumber	142	1	123	5	13	—
4190 forest products nec	2	0	1	—	1	—
Subtotal pulp and waste paper	6	6	0	0	0	—
4225 pulp & waste paper	6	6	0	0	0	—
Subtotal soil, sand, gravel, rock and stone	2,834	—	5	2,428	195	207
4322 limestone	0	—	—	—	0	—
4323 gypsum	0	—	0	—	—	—
4331 sand & gravel	2,820	—	0	2,419	193	207
4335 waterway improv. mat	9	—	—	9	—	—
4338 soil & fill dirt	5	—	4	—	1	—
Subtotal iron ore and scrap	30	12	—	19	—	—
4420 iron & steel scrap	30	12	—	19	—	—
Subtotal sulphur, clay and salt	7	—	—	7	0	—
4782 clay & refrac. mat.	7	—	—	7	0	—
Subtotal slag	6	—	6	—	—	—
4860 slag	6	—	6	—	—	—
Subtotal other non-metal. min.	14	2	10	0	2	—
4900 non-metal. min. nec	14	2	10	0	2	—
Total primary manufactured goods	280	6	191	16	53	13
Subtotal paper products	53	1	48	0	4	—
5110 newsprint	4	—	4	—	—	—
5120 paper & paperboard	9	0	9	—	—	—
5190 paper products nec	40	0	35	0	4	—
Subtotal lime, cement and glass	110	—	74	6	18	12
5210 lime	1	—	—	—	1	—
5220 cement & concrete	19	—	2	0	8	9
5240 glass & glass prod.	3	—	1	0	2	—
5290 misc. mineral prod.	87	—	71	6	7	3
Subtotal primary iron and steel products	3	—	1	1	2	0
5360 i&s bars & shapes	0	—	—	—	0	—
5370 i&s pipe & tube	3	—	1	1	2	0
Subtotal primary non-ferrous metal products	89	6	43	9	29	1
5480 fab. metal products	89	6	43	9	29	1
Subtotal primary wood products	25	0	25	—	—	—
5540 primary wood prod.	25	0	25	—	—	—
Total food and farm products	464	126	197	41	73	27
Subtotal fish	63	44	3	15	0	—
6134 fish (not shellfish)	51	34	3	14	0	—
6136 shellfish	12	11	0	1	—	—

SEATTLE HARBOR, WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Subtotal grain	0	0	0	---	---	---
6442 rice	0	0	0	---	---	---
Subtotal vegetable products	40	0	39	---	0	---
6653 vegetable oils	0	---	0	---	---	---
6654 vegetables & prod.	40	0	39	---	0	---
Subtotal processed grain and animal feed	56	0	56	---	0	---
6746 wheat flour	4	---	4	---	---	---
6747 grain mill products	1	0	1	---	---	---
6781 hay & fodder	1	---	1	---	---	---
6782 animal feed, prep.	50	0	50	---	0	---
Subtotal other agricultural products	304	81	98	26	72	27
6811 meat, fresh, frozen	4	0	3	---	0	---
6817 meat, prepared	0	---	0	---	---	---
6822 dairy products	1	---	1	---	---	---
6835 fish, prepared	30	13	0	17	---	---
6839 animals & prod. nec	2	1	1	---	---	---
6857 fruit & nuts nec	3	0	3	---	---	---
6858 fruit juices	19	18	0	---	0	---
6861 sugar	0	---	0	---	---	---
6865 molasses	55	28	---	---	---	27
6871 coffee	0	---	0	---	---	---
6885 alcoholic beverages	27	0	12	5	10	---
6887 groceries	32	0	5	0	26	---
6889 food products nec	129	19	70	4	35	---
6891 tobacco & products	0	---	0	---	---	---
6899 farm products nec	3	1	2	---	---	---
Total all manufactured equipment, machinery and products	859	213	435	42	166	2
7110 machinery (not elec)	45	15	19	4	7	1
7120 electrical machinery	9	0	1	0	8	---
7210 vehicles & parts	31	10	13	2	7	0
7220 aircraft & parts	0	0	---	---	---	---
7230 ships & boats	1	0	0	0	0	---
7400 manufac. wood prod.	45	0	28	5	12	---
7500 textile products	3	2	0	0	1	---
7600 rubber & plastic pr.	4	0	1	0	3	---
7900 manufac. prod. nec	721	186	373	32	129	1

*Includes 415 (x1000) tons of foreign inbound in-transits; Includes 244 (x1000) tons of foreign outbound in-transits;
Includes 6 (x1000) tons of Canadian inbound in-transits; Includes 0 (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
1990	1,724	1993	1,919	1996	1,316	1999	1,594
1991	1,437	1994	1,365	1997	1,496		
1992	1,614	1995	1,555	1998	1,679		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
Total, all commodities	54	12	2	22	18
Total chemicals and related products	30	12	---	---	18
Subtotal other chemicals and related products	30	12	---	---	18
3220 alcohols	12	12	---	---	---
3274 sodium hydroxide	9	---	---	---	9
3276 metallic salts	9	---	---	---	9
Total crude materials, inedible except fuels	19	---	---	19	---
Subtotal soil, sand, gravel, rock and stone	19	---	---	19	---
4331 sand & gravel	19	---	---	19	---
Total primary manufactured goods	3	0	0	3	---
Subtotal paper products	0	0	---	---	---
5190 paper products nec	0	0	---	---	---
Subtotal lime, cement and glass	3	---	---	3	---
5290 misc. mineral prod.	3	---	---	3	---
Subtotal primary non-ferrous metal products	0	---	0	---	---
5480 fab. metal products	0	---	0	---	---

LAKE WASHINGTON SHIP CANAL, WA (INCLUDED IN TRAFFIC OF SEATTLE HARBOR, WA)
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
Total food and farm products	2	1	2	---	---
Subtotal fish	1	1	---	---	---
6136 shellfish	1	1	---	---	---
Subtotal other agricultural products	2	---	2	---	---
6838 tallow, animal oils	1	---	1	---	---
6889 food products nec	1	---	1	---	---
Total all manufactured equipment, machinery and products	0	0	0	---	---
7110 machinery (not elec)	0	0	---	---	---
7500 textile products	0	---	0	---	---

Commodity	Total	Domestic			
		Coastwise		Internal	
		Receipts	Shipments	Inbound Upbound	Outbound Downbnd
Total, all commodities	1,540	65	149	1,252	74
Total petroleum and petroleum products	70	0	1	58	10
Subtotal petroleum products	70	0	1	58	10
2330 distillate fuel oil	56	---	---	56	---
2340 residual fuel oil	11	---	---	2	9
2350 lube oil & greases	1	0	1	---	1
2540 petroleum coke	0	---	---	---	0
2990 petro. products nec	2	0	1	0	1
Total chemicals and related products	1	0	1	0	0
Subtotal other chemicals and related products	1	0	1	0	0
3275 inorg. elem., oxides, & halogen salts	1	---	1	---	---
3286 plastics	0	---	0	---	0
3299 chem. products nec	0	0	---	0	0
Total crude materials, inedible except fuels	1,209	2	28	1,161	18
Subtotal forest products, wood and chips	33	0	20	0	14
4170 wood in the rough	9	---	---	---	9
4189 lumber	23	0	19	0	4
4190 forest products nec	1	0	1	---	1
Subtotal soil, sand, gravel, rock and stone	1,165	---	0	1,161	4
4323 gypsum	0	---	0	---	---
4331 sand & gravel	1,164	---	0	1,161	3
4338 soil & fill dirt	1	---	---	---	1
Subtotal other non-metal. min.	10	2	8	---	0
4900 non-metal. min. nec	10	2	8	---	0
Total primary manufactured goods	58	2	49	0	7
Subtotal paper products	9	0	8	0	1
5190 paper products nec	9	0	8	0	1
Subtotal lime, cement and glass	25	---	20	0	5
5220 cement & concrete	3	---	2	---	1
5240 glass & glass prod.	1	---	1	---	---
5290 misc. mineral prod.	22	---	18	0	4
Subtotal primary iron and steel products	1	---	0	0	---
5370 i&s pipe & tube	1	---	0	0	---
Subtotal primary non-ferrous metal products	23	2	20	0	2
5480 fab. metal products	23	2	20	0	2
Subtotal primary wood products	1	---	1	---	---
5540 primary wood prod.	1	---	1	---	---
Total food and farm products	112	57	8	27	20
Subtotal fish	55	44	2	8	0
6134 fish (not shellfish)	44	33	2	8	0
6136 shellfish	10	10	---	0	---
Subtotal vegetable products	1	0	0	---	0
6654 vegetables & prod.	1	0	0	---	0
Subtotal processed grain and animal feed	0	---	0	---	0
6746 wheat flour	0	---	0	---	---
6782 animal feed, prep.	0	---	0	---	0
Subtotal other agricultural products	56	13	5	19	19
6811 meat, fresh, frozen	1	0	1	---	0
6835 fish, prepared	28	13	0	14	---
6858 fruit juices	1	0	0	---	0
6885 alcoholic beverages	10	0	1	5	4
6887 groceries	17	0	3	0	14
Total all manufactured equipment, machinery and products	89	4	62	5	19
7110 machinery (not elec)	3	0	1	0	1
7210 vehicles & parts	7	0	5	0	1
7230 ships & boats	1	0	0	0	0
7400 manufac. wood prod.	21	---	18	0	3
7900 manufac. prod. nec	58	3	38	4	14

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
1990	6,580	1993	4,714	1996	4,007	1999	3,815
1991	5,453	1994	4,192	1997	3,640		
1992	6,010	1995	4,441	1998	3,321		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports
Total, all commodities	696	320	270	36	69
Total petroleum and petroleum products	1	—	1	—	—
Subtotal petroleum products	1	—	1	—	—
2340 residual fuel oil	1	—	1	—	—
Total chemicals and related products	1	—	—	—	1
Subtotal other chemicals and related products	1	—	—	—	1
3276 metallic salts	1	—	—	—	1
Total crude materials, inedible except fuels	691	319	267	36	69
Subtotal forest products, wood and chips	349	—	253	27	69
4150 fuel wood	7	—	—	0	7
4161 wood chips	61	—	—	—	61
4170 wood in the rough	280	—	253	27	—
Subtotal pulp and waste paper	15	—	15	—	—
4225 pulp & waste paper	15	—	15	—	—
Subtotal soil, sand, gravel, rock and stone	9	—	—	9	—
4310 building stone	4	—	—	4	—
4331 sand & gravel	5	—	—	5	—
Subtotal non-ferrous ores and scrap	319	319	—	—	—
4650 aluminum ore	319	319	—	—	—
Total primary manufactured goods	0	—	0	—	—
Subtotal paper products	0	—	0	—	—
5120 paper & paperboard	0	—	0	—	—
Subtotal lime, cement and glass	0	—	0	—	—
5290 misc. mineral prod.	0	—	0	—	—
Total food and farm products	2	—	2	—	—
Subtotal vegetable products	2	—	2	—	—
6653 vegetable oils	0	—	0	—	—
6654 vegetables & prod.	2	—	2	—	—
Subtotal processed grain and animal feed	0	—	0	—	—
6747 grain mill products	0	—	0	—	—
Subtotal other agricultural products	0	—	0	—	—
6811 meat, fresh, frozen	0	—	0	—	—
6839 animals & prod. nec	0	—	0	—	—
6857 fruit & nuts nec	0	—	0	—	—
Total all manufactured equipment, machinery and products	1	1	0	—	—
7110 machinery (not elec)	0	0	0	—	—
7210 vehicles & parts	1	1	—	—	—
7600 rubber & plastic pr.	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	3,119	53	15	1,884	1,110	58
Total petroleum and petroleum products	83	—	—	49	34	1
Subtotal petroleum products	83	—	—	49	34	1
2330 distillate fuel oil	1	—	—	1	0	0
2340 residual fuel oil	81	—	—	48	33	—
2990 petro. products nec	0	—	—	—	—	0
Total chemicals and related products	11	—	—	11	—	—
Subtotal other chemicals and related products	11	—	—	11	—	—
3274 sodium hydroxide	7	—	—	7	—	—
3275 inorg. elem., oxides, & halogen salts	4	—	—	4	—	—

EVERETT HARBOR AND SNOHOMISH RIVER, WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total crude materials, inedible except fuels	2,998	53	14	1,810	1,066	57
Subtotal forest products, wood and chips	2,561	53	14	1,378	1,062	55
4161 wood chips	66	—	14	17	36	—
4170 wood in the rough	2,495	53	—	1,361	1,027	55
Subtotal soil, sand, gravel, rock and stone	437	—	—	432	3	2
4331 sand & gravel	437	—	—	432	3	2
Total primary manufactured goods	0	—	—	0	—	—
Subtotal lime, cement and glass	0	—	—	0	—	—
5290 misc. mineral prod.	0	—	—	0	—	—
Subtotal primary iron and steel products	0	—	—	0	—	—
5360 i&s bars & shapes	0	—	—	0	—	—
Subtotal primary non-ferrous metal products	0	—	—	0	—	—
5480 fab. metal products	0	—	—	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	24	—	1	13	10	0
7110 machinery (not elec)	0	—	0	—	—	—
7900 manufac. prod. nec	24	—	1	13	10	0
Total unknown or not elsewhere classified	2	—	—	0	1	—
9900 unknown or nec	2	—	—	0	1	—

*Includes 1 (x1000) tons of foreign inbound in-transits; Includes 7 (x1000) tons of foreign 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 mlw.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	15,438	1993	13,124	1996	13,844	1999	16,232
1991	14,481	1994	12,950	1997	13,904		
1992	15,260	1995	13,110	1998	11,948		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
Total, all commodities	3,762	2,046	791	818	106
Total petroleum and petroleum products	2,990	2,046	755	83	106
Subtotal crude petroleum	1,679	1,679	—	—	—
2100 crude petroleum	1,679	1,679	—	—	—
Subtotal petroleum products	1,311	367	755	83	106
2211 gasoline	83	29	32	13	8
2221 kerosene	98	68	—	4	26
2330 distillate fuel oil	213	130	28	51	4
2340 residual fuel oil	295	89	178	15	14
2350 lube oil & greases	52	52	—	—	—
2429 naphtha & solvents	523	—	517	—	7
2540 petroleum coke	48	—	—	—	48
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	770	—	35	735	—
Subtotal forest products, wood and chips	770	—	35	735	—
4161 wood chips	2	—	—	2	—
4170 wood in the rough	768	—	35	733	—
Total primary manufactured goods	0	—	0	—	—
Subtotal lime, cement and glass	0	—	0	—	—
5240 glass & glass prod.	0	—	0	—	—
Subtotal primary non-ferrous metal products	0	—	0	—	—
5480 fab. metal products	0	—	0	—	—
Total food and farm products	0	—	0	—	—
Subtotal fish	0	—	0	—	—
6134 fish (not shellfish)	0	—	0	—	—

ANACORTES HARBOR, WA
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
Subtotal vegetable products	0	---	0	---	---
6654 vegetables & prod.	0	---	0	---	---
Subtotal other agricultural products	0	---	0	---	---
6857 fruit & nuts nec	0	---	0	---	---
6889 food products nec	0	---	0	---	---
Total all manufactured equipment, machinery and products	1	0	0	0	0
7110 machinery (not elec)	0	---	0	0	---
7120 electrical machinery	0	---	0	---	---
7210 vehicles & parts	0	---	0	---	---
7220 aircraft & parts	0	---	---	0	---
7230 ships & boats	0	---	---	0	0
7500 textile products	0	0	---	---	---
7900 manufac. prod. nec	0	---	0	---	---

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	12,470	8,069	1,335	1,271	1,264	530
Total petroleum and petroleum products	12,376	8,069	1,335	1,211	1,231	530
Subtotal crude petroleum	7,709	7,605	104	---	---	---
2100 crude petroleum	7,709	7,605	104	---	---	---
Subtotal petroleum products	4,667	464	1,231	1,211	1,231	530
2211 gasoline	1,697	78	536	696	291	97
2330 distillate fuel oil	1,483	288	573	310	249	63
2340 residual fuel oil	1,382	9	118	199	685	370
2350 lube oil & greases	6	---	---	0	5	0
2429 naphtha & solvents	28	23	---	5	---	---
2430 asphalt, tar & pitch	71	67	4	---	---	---
Total crude materials, inedible except fuels	92	---	---	59	33	---
Subtotal forest products, wood and chips	92	---	---	59	33	---
4170 wood in the rough	92	---	---	59	33	---
4189 lumber	0	---	---	---	0	---
Total primary manufactured goods	0	---	---	---	0	---
Subtotal lime, cement and glass	0	---	---	---	0	---
5290 misc. mineral prod.	0	---	---	---	0	---
Total food and farm products	1	---	---	1	0	---
Subtotal fish	1	---	---	1	0	---
6134 fish (not shellfish)	0	---	---	0	0	---
6136 shellfish	1	---	---	1	---	---
Total all manufactured equipment, machinery and products	1	---	---	0	1	---
7210 vehicles & parts	1	---	---	---	1	---
7230 ships & boats	0	---	---	0	---	---
7400 manufac. wood prod.	0	---	---	---	0	---

*Includes 94 (x1000) tons of foreign inbound 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 mlw.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	1,303	1993	1,223	1996	1,419	1999	1,526
1991	1,482	1994	1,343	1997	1,555		
1992	1,383	1995	1,291	1998	1,244		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports
Total, all commodities	901	221	342	105	233
Total petroleum and petroleum products	451	119	85	18	229
Subtotal crude petroleum	84	84	---	---	---
2100 crude petroleum	84	84	---	---	---
Subtotal petroleum products	367	34	85	18	229
2211 gasoline	34	34	---	---	---
2221 kerosene	36	---	---	---	36
2330 distillate fuel oil	168	---	---	7	161
2340 residual fuel oil	23	---	13	7	2
2429 naphtha & solvents	101	---	71	---	30
2430 asphalt, tar & pitch	4	---	---	4	---
Total chemicals and related products	148	0	131	17	0
Subtotal other chemicals and related products	148	0	131	17	0
3211 acyclic hydrocarbons	76	---	76	---	---
3230 carboxylic acids	2	---	2	---	---
3260 organic comp. nec	0	---	0	---	---
3274 sodium hydroxide	0	---	---	---	0
3275 inorg. elem., oxides, & halogen salts	19	---	19	---	---
3276 metallic salts	0	0	---	---	0
3283 coloring mat. nec	0	---	0	---	---
3285 perfumes & cleansers	2	---	2	---	---
3286 plastics	0	---	0	---	---
3292 starches, gluten, glue	0	0	---	---	---
3298 wood & resin chem.	50	---	33	17	---
3299 chem. products nec	0	0	0	---	---
Total crude materials, inedible except fuels	193	55	69	66	3
Subtotal forest products, wood and chips	0	---	0	---	---
4189 lumber	0	---	0	---	---
Subtotal pulp and waste paper	69	---	69	---	---
4225 pulp & waste paper	69	---	69	---	---
Subtotal soil, sand, gravel, rock and stone	64	---	---	64	---
4322 limestone	46	---	---	46	---
4323 gypsum	17	---	---	17	---
4331 sand & gravel	1	---	---	1	---
Subtotal non-ferrous ores and scrap	57	55	---	2	---
4650 aluminum ore	57	55	---	2	---
Subtotal other non-metal. min.	3	---	---	---	3
4900 non-metal. min. nec	3	---	---	---	3
Total primary manufactured goods	55	8	47	---	---
Subtotal paper products	0	---	0	---	---
5190 paper products nec	0	---	0	---	---
Subtotal lime, cement and glass	0	0	0	---	---
5240 glass & glass prod.	0	0	0	---	---
5290 misc. mineral prod.	0	0	---	---	---
Subtotal primary iron and steel products	8	8	0	---	---
5330 i&s plates & sheets	8	8	---	---	---
5360 i&s bars & shapes	0	0	0	---	---
5370 i&s pipe & tube	0	0	---	---	---
Subtotal primary non-ferrous metal products	47	0	47	---	---
5422 aluminum	47	0	47	---	---
5480 fab. metal products	0	0	---	---	---
Subtotal primary wood products	0	0	---	---	---
5540 primary wood prod.	0	0	---	---	---
Total food and farm products	52	39	9	4	---
Subtotal fish	8	---	4	4	---
6134 fish (not shellfish)	8	---	4	4	---
Subtotal oilseeds	39	39	---	---	---
6590 oilseeds nec	39	39	---	---	---
Subtotal processed grain and animal feed	0	0	---	---	---
6747 grain mill products	0	0	---	---	---
Subtotal other agricultural products	6	0	5	0	---
6811 meat, fresh, frozen	0	---	---	0	---
6838 tallow, animal oils	5	---	5	---	---
6885 alcoholic beverages	0	0	---	---	---
6889 food products nec	0	0	0	---	---

BELLINGHAM BAY AND HARBOR, WA
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports*	Imports	Exports
Total all manufactured equipment, machinery and products	2	0	1	0	---
7110 machinery (not elec)	0	0	---	---	---
7230 ships & boats	0	---	0	0	---
7400 manufac. wood prod.	0	0	---	---	---
7500 textile products	0	0	0	---	---
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	---	---	---

Commodity	Total	Domestic			
		Coastwise		Internal	
		Receipts	Shipments	Receipts	Shipments
Total, all commodities	625	284	135	170	35
Total petroleum and petroleum products	20	---	9	10	---
Subtotal petroleum products	20	---	9	10	---
2211 gasoline	4	---	4	---	---
2330 distillate fuel oil	2	---	---	2	---
2340 residual fuel oil	15	---	6	9	---
Total chemicals and related products	83	---	83	---	---
Subtotal other chemicals and related products	83	---	83	---	---
3274 sodium hydroxide	19	---	19	---	---
3298 wood & resin chem.	64	---	64	---	---
Total crude materials, inedible except fuels	499	283	39	145	32
Subtotal forest products, wood and chips	357	206	39	81	30
4150 fuel wood	41	17	6	14	4
4161 wood chips	293	189	33	67	5
4170 wood in the rough	22	---	---	1	22
Subtotal soil, sand, gravel, rock and stone	65	---	---	63	2
4331 sand & gravel	64	---	---	63	1
4338 soil & fill dirt	1	---	---	---	1
Subtotal other non-metal. min.	77	77	0	---	---
4900 non-metal. min. nec	77	77	0	---	---
Total primary manufactured goods	5	---	2	---	3
Subtotal paper products	0	---	0	---	---
5190 paper products nec	0	---	0	---	---
Subtotal lime, cement and glass	3	---	---	---	3
5290 misc. mineral prod.	3	---	---	---	3
Subtotal primary non-ferrous metal products	2	---	2	---	---
5480 fab. metal products	2	---	2	---	---
Total food and farm products	16	1	0	15	---
Subtotal fish	16	1	0	15	---
6134 fish (not shellfish)	15	1	0	14	---
6136 shellfish	1	0	---	1	---
Total all manufactured equipment, machinery and products	1	0	1	0	---
7110 machinery (not elec)	1	0	1	---	---
7230 ships & boats	0	---	---	0	---
7900 manufac. prod. nec	0	---	0	---	---

*Includes 0 (x1000) tons of foreign inbound in-transits; Includes 41 (x1000) tons of foreign outbound in-transits.

Other Harbors and Waterways 1999

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	83
	Total Tons(x1000)	83
	Total Ton-miles(x1000)	83
KOOTENAI RIVER, ID AND MT	No Commerce Reported	
NEAH BAY, WA	4150 fuel wood	0
	4161 wood chips	49
	4170 wood in the rough	75
	5290 misc. mineral prod.	1
	6134 fish (not shellfish)	2
	6136 shellfish	0
	Total Tons(x1000)	127
PORT GAMBLE HARBOR, WA	4161 wood chips	1
	4170 wood in the rough	134
	Total Tons(x1000)	135
QUILLAYUTE RIVER, WA	6134 fish (not shellfish)	11
	6136 shellfish	7
	Total Tons(x1000)	18
	Total Ton-miles(x1000)	18
SKAGIT RIVER, WA	4170 wood in the rough	28
	6134 fish (not shellfish)	0
	Total Tons(x1000)	28
	Total Ton-miles(x1000)	113
STILLAGUAMISH RIVER, WA	No Commerce Reported	
SWINOMISH CHANNEL, WA	2430 asphalt, tar & pitch	1
	4170 wood in the rough	137
	4331 sand & gravel	59
	6134 fish (not shellfish)	4
	6136 shellfish	1
	Total Tons(x1000)	201
	Total Ton-miles(x1000)	657
WATERWAY CONNECTING PORT TOWNSEND BAY AND OAK BAY, WA	No Commerce Reported	
WILLAPA RIVER AND HARBOR, AND NASELLE RIVER, WA	6134 fish (not shellfish)	0
	6136 shellfish	1
	Total Tons(x1000)	1
Non-project		
COEUR D ALENE LAKE AND ST. JOE RIVER, ID	4170 wood in the rough	529
	Total Tons(x1000)	529
	Total Ton-miles(x1000)	9,543
OTHER PUGET SOUND AREA PORTS, WA (NET)	2100 crude petroleum	12,858
	2211 gasoline	3,316

Other Harbors and Waterways 1999 - continued

Harbor or Waterway Non-project	Commodity	Thousand Short Tons
OTHER PUGET SOUND AREA PORTS, WA (NET) - continued	2221 kerosene	4
	2330 distillate fuel oil	1,471
	2340 residual fuel oil	1,422
	2350 lube oil & greases	41
	2429 naphtha & solvents	155
	2430 asphalt, tar & pitch	50
	2990 petro. products nec	26
	3212 benzene & toluene	93
	3220 alcohols	5
	3230 carboxylic acids	0
	3250 organo - inorg. comp.	0
	3260 organic comp. nec	0
	3274 sodium hydroxide	14
	3275 inorg. elem., oxides, & halogen salts	0
	3276 metallic salts	1
	3282 pigments & paints	0
	3285 perfumes & cleansers	0
	3286 plastics	0
	3293 explosives	0
	3297 chemical additives	10
	3298 wood & resin chem.	4
	3299 chem. products nec	0
	4150 fuel wood	0
	4161 wood chips	11
	4170 wood in the rough	1,343
	4189 lumber	0
	4190 forest products nec	0
	4225 pulp & waste paper	1
	4331 sand & gravel	3,007
	4335 waterway improv. mat	9
	4338 soil & fill dirt	2
	4650 aluminum ore	117
	4690 non-ferrous ores nec	6
	4782 clay & refrac. mat.	7
	4900 non-metal. min. nec	1
	5120 paper & paperboard	0
	5190 paper products nec	0
	5220 cement & concrete	152
	5290 misc. mineral prod.	1
	5312 pig iron	0
	5330 i&s plates & sheets	0
	5370 i&s pipe & tube	0
	5480 fab. metal products	3
	6134 fish (not shellfish)	4
	6136 shellfish	1
	6344 corn	0
	6654 vegetables & prod.	1
	6781 hay & fodder	0
	6811 meat, fresh, frozen	0
	6835 fish, prepared	0
	6838 tallow, animal oils	2
	6839 animals & prod. nec	0
	6857 fruit & nuts nec	1
	6858 fruit juices	0
	7110 machinery (not elec)	2
	7120 electrical machinery	0
	7210 vehicles & parts	1
	7230 ships & boats	0
	7400 manufac. wood prod.	0
	7500 textile products	0
	7600 rubber & plastic pr.	0
	7900 manufac. prod. nec	0
	8900 waste and scrap nec	0
	9900 unknown or nec	2
	Total Tons(x1000)	24,147

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
1990	1,947	1993	1,564	1996	1,341	1999	1,400
1991	1,568	1994	1,759	1997	1,241		
1992	1,986	1995	1,821	1998	937		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Exports	Imports	Imports	Exports
Total, all commodities	740	318	56	365	
Total petroleum and petroleum products	24	—	24	—	
Subtotal petroleum products	24	—	24	—	
2211 gasoline	10	—	10	—	
2221 kerosene	2	—	2	—	
2330 distillate fuel oil	10	—	10	—	
2640 liquid natural gas	2	—	2	—	
Total chemicals and related products	3	0	3	—	
Subtotal other chemicals and related products	3	0	3	—	
3230 carboxylic acids	0	0	—	—	
3276 metallic salts	3	—	3	—	
3285 perfumes & cleansers	0	0	—	—	
3293 explosives	0	—	0	—	
Total crude materials, inedible except fuels	682	317	25	340	
Subtotal forest products, wood and chips	657	317	—	340	
4150 fuel wood	2	—	—	2	
4161 wood chips	118	2	—	116	
4170 wood in the rough	514	291	—	223	
4189 lumber	24	24	—	—	
Subtotal pulp and waste paper	0	0	—	—	
4225 pulp & waste paper	0	0	—	—	
Subtotal soil, sand, gravel, rock and stone	18	—	18	—	
4331 sand & gravel	18	—	18	—	
Subtotal iron ore and scrap	0	0	—	—	
4420 iron & steel scrap	0	0	—	—	
Subtotal other non-metal. min.	7	—	7	—	
4900 non-metal. min. nec	7	—	7	—	
Total primary manufactured goods	4	0	4	—	
Subtotal lime, cement and glass	2	—	2	—	
5210 lime	2	—	2	—	
Subtotal primary non-ferrous metal products	2	0	2	—	
5480 fab. metal products	2	0	2	—	
Total food and farm products	26	1	—	25	
Subtotal fish	25	1	—	25	
6134 fish (not shellfish)	25	1	—	25	
Subtotal processed grain and animal feed	1	1	—	—	
6782 animal feed, prep.	1	1	—	—	
Total all manufactured equipment, machinery and products	1	0	0	0	
7110 machinery (not elec)	0	0	0	0	
7230 ships & boats	0	—	0	0	
7500 textile products	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	Intraport
Total, all commodities	661	48	74	344	181	14
Total coal	1	—	—	1	0	—
1100 coal lignite	1	—	—	1	0	—
Total petroleum and petroleum products	242	47	9	55	118	14
Subtotal petroleum products	242	47	9	55	118	14
2211 gasoline	91	21	4	22	41	4
2330 distillate fuel oil	149	26	5	31	77	10
2350 lube oil & greases	2	—	—	1	0	—
2540 petroleum coke	0	—	—	0	—	—
2640 liquid natural gas	0	—	—	—	0	—
2990 petro. products nec	1	—	—	1	0	—

KETCHIKAN HARBOR, AK
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Coastwise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total chemicals and related products	5	---	---	4	2	---
Subtotal fertilizers	1	---	---	1	---	---
3110 nitrogenous fert.	1	---	---	1	---	---
Subtotal other chemicals and related products	5	---	---	3	2	---
3282 pigments & paints	0	---	---	0	---	---
3284 medicines	0	---	---	0	---	---
3293 explosives	0	---	---	0	0	---
3299 chem. products nec	4	---	---	3	1	---
Total crude materials, inedible except fuels	287	---	65	200	21	0
Subtotal forest products, wood and chips	280	---	61	199	20	0
4110 rubber & gums	0	---	---	0	0	---
4150 fuel wood	20	---	2	4	14	---
4161 wood chips	65	---	59	5	1	---
4170 wood in the rough	190	---	---	188	2	0
4189 lumber	5	---	---	2	3	---
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	1	---	---	1	1	---
4331 sand & gravel	1	---	---	1	1	---
Subtotal iron ore and scrap	4	---	4	---	1	---
4420 iron & steel scrap	4	---	4	---	1	---
Subtotal sulphur, clay and salt	0	---	---	0	---	---
4782 clay & refrac. mat.	0	---	---	0	---	---
Subtotal other non-metal. min.	1	---	---	0	0	---
4900 non-metal. min. nec	1	---	---	0	0	---
Total primary manufactured goods	14	---	---	12	1	0
Subtotal paper products	2	---	---	2	0	---
5190 paper products nec	2	---	---	2	0	---
Subtotal lime, cement and glass	5	---	---	5	0	---
5220 cement & concrete	3	---	---	3	0	---
5240 glass & glass prod.	2	---	---	2	0	---
5290 misc. mineral prod.	0	---	---	0	0	---
Subtotal primary iron and steel products	1	---	---	0	1	---
5370 i&s pipe & tube	1	---	---	0	1	---
Subtotal primary non-ferrous metal products	6	---	---	5	1	0
5480 fab. metal products	6	---	---	5	1	0
Total food and farm products	43	1	0	29	13	---
Subtotal fish	7	1	0	0	5	---
6134 fish (not shellfish)	6	---	0	0	5	---
6136 shellfish	1	1	---	0	---	---
Subtotal vegetable products	0	---	---	0	---	---
6654 vegetables & prod.	0	---	---	0	---	---
Subtotal other agricultural products	36	---	---	28	8	---
6811 meat, fresh, frozen	0	---	---	0	---	---
6835 fish, prepared	5	---	---	---	5	---
6858 fruit juices	0	---	---	0	---	---
6885 alcoholic beverages	3	---	---	3	---	---
6887 groceries	5	---	---	5	0	---
6889 food products nec	22	---	---	20	2	---
Total all manufactured equipment, machinery and products	70	0	0	44	26	0
7110 machinery (not elec)	13	---	---	5	8	---
7120 electrical machinery	1	---	---	1	0	---
7210 vehicles & parts	3	---	---	2	1	---
7230 ships & boats	0	---	---	0	0	---
7400 manufac. wood prod.	6	---	---	4	3	---
7500 textile products	0	---	---	0	0	---
7600 rubber & plastic pr.	1	---	---	1	0	---
7900 manufac. prod. nec	45	0	0	31	14	0

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
1990	858	1993	569	1996	473	1999	404
1991	714	1994	547	1997	496		
1992	718	1995	544	1998	432		

Freight Traffic, 1999 (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	404	20	3	40	7	1	11	254	67
Total petroleum and petroleum products	120	8	1	17	6	---	0	86	2
Subtotal petroleum products	120	8	1	17	6	---	0	86	2
2211 gasoline	42	4	0	6	2	---	0	29	1
2330 distillate fuel oil	75	4	1	10	4	---	---	54	1
2350 lube oil & greases	3	---	---	0	---	---	---	3	0
2540 petroleum coke	0	---	---	---	---	---	---	0	---
2990 petro. products nec	1	---	---	0	---	---	---	1	0
Total chemicals and related products	7	0	0	0	---	---	---	6	0
Subtotal fertilizers	1	---	---	---	---	---	---	1	---
3110 nitrogenous fert.	1	---	---	---	---	---	---	1	---
Subtotal other chemicals and related products	6	0	0	0	---	---	---	5	0
3276 metallic salts	2	---	---	---	---	---	---	2	---
3282 pigments & paints	1	0	---	0	---	---	---	1	---
3286 plastics	0	---	---	0	---	---	---	0	---
3293 explosives	0	---	---	0	---	---	---	0	0
3299 chem. products nec	2	0	0	---	---	---	---	2	0
Total crude materials, inedible except fuels	50	1	---	0	0	---	---	13	37
Subtotal forest products, wood and chips	32	0	---	0	0	---	---	10	22
4170 wood in the rough	22	---	---	---	0	---	---	---	22
4189 lumber	10	0	---	0	---	---	---	9	0
4190 forest products nec	1	---	---	---	---	---	---	1	---
Subtotal soil, sand, gravel, rock and stone	1	---	---	---	---	---	---	1	---
4322 limestone	0	---	---	---	---	---	---	0	---
4331 sand & gravel	1	---	---	---	---	---	---	1	---
Subtotal iron ore and scrap	15	0	---	---	---	---	---	---	15
4420 iron & steel scrap	15	0	---	---	---	---	---	---	15
Subtotal other non-metal. min.	2	0	---	0	---	---	---	2	0
4900 non-metal. min. nec	2	0	---	0	---	---	---	2	0
Total primary manufactured goods	33	2	---	5	0	0	0	26	0
Subtotal paper products	2	0	---	1	---	---	---	1	0
5190 paper products nec	2	0	---	1	---	---	---	1	0

WRANGELL NARROWS, AK
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Domestic							
		Coastwise		Internal				Through	
		Through		Inbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Subtotal lime, cement and glass	11	0	---	1	---	---	0	10	0
5210 lime	1	---	---	---	---	---	---	1	---
5220 cement & concrete	5	---	---	0	---	---	---	5	---
5240 glass & glass prod.	0	0	---	---	---	---	---	0	---
5290 misc. mineral prod.	5	---	---	0	---	---	0	5	0
Subtotal primary iron and steel products	1	0	---	---	---	---	---	1	---
5370 i&s pipe & tube	1	0	---	---	---	---	---	1	---
Subtotal primary non-ferrous metal products	18	2	---	3	0	0	0	13	0
5480 fab. metal products	18	2	---	3	0	0	0	13	0
Total food and farm products	63	1	1	3	0	---	8	35	14
Subtotal fish	9	---	1	---	---	---	1	0	6
6134 fish (not shellfish)	8	---	0	---	---	---	1	0	6
6136 shellfish	1	---	1	---	---	---	---	---	---
Subtotal vegetable products	0	---	---	0	---	---	---	0	---
6654 vegetables & prod.	0	---	---	0	---	---	---	0	---
Subtotal processed grain and animal feed	0	---	---	---	---	---	---	0	---
6782 animal feed, prep.	0	---	---	---	---	---	---	0	---
Subtotal other agricultural products	54	1	---	3	0	---	7	34	8
6811 meat, fresh, frozen	0	---	---	0	---	---	---	0	---
6835 fish, prepared	10	---	---	---	---	---	7	---	3
6858 fruit juices	0	---	---	0	---	---	---	0	---
6885 alcoholic beverages	12	0	---	1	0	---	---	6	5
6887 groceries	21	0	---	1	0	---	---	19	0
6889 food products nec	10	0	---	1	0	---	---	9	0
Total all manufactured equipment, machinery and products	130	9	1	14	1	1	2	88	14
7110 machinery (not elec)	7	0	---	0	0	0	0	4	1
7120 electrical machinery	7	0	---	1	---	---	---	6	0
7210 vehicles & parts	5	0	0	1	---	---	0	4	0
7230 ships & boats	0	---	---	0	0	0	0	0	0
7400 manufac. wood prod.	8	0	---	1	---	---	---	7	0
7500 textile products	1	---	---	---	---	---	---	1	0
7600 rubber & plastic pr.	3	1	---	1	---	---	---	1	---
7900 manufac. prod. nec	101	7	1	11	0	1	2	67	12
Ton-miles (x1000)	9,682	336	79	985	14	6	230	6,345	1,686
Tons All Traffic (x1000)			404						
Ton-miles All Traffic (x1000)			9,686						

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
1990	157	1993	193	1996	465	1999	527
1991	179	1994	222	1997	583		
1992	163	1995	192	1998	320		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Exports	Imports	Exports	Total	Coastwise		Internal	
						Receipts	Shipments	Inbound Upbound	Outbound Downbnd
Total, all commodities	527	161	6	205	154	28	2	99	25
Total petroleum and petroleum products	63	---	---	---	63	27	2	30	4
Subtotal petroleum products	63	---	---	---	63	27	2	30	4
2211 gasoline	30	---	---	---	30	15	1	14	1
2330 distillate fuel oil	32	---	---	---	32	12	1	16	3
2350 lube oil & greases	1	---	---	---	1	0	0	1	0
2540 petroleum coke	0	---	---	---	0	---	---	0	---
2990 petro. products nec	1	---	---	---	1	0	---	1	0
Total chemicals and related products	3	0	---	---	3	---	0	2	0
Subtotal other chemicals and related products	3	0	---	---	3	---	0	2	0
3276 metallic salts	2	---	---	---	2	---	---	2	---
3282 pigments & paints	1	---	---	---	1	---	---	1	---
3286 plastics	0	0	---	---	0	---	---	0	---
3293 explosives	0	---	---	---	0	---	---	0	0
3299 chem. products nec	0	---	---	---	0	---	0	0	0
Total crude materials, inedible except fuels	379	161	6	205	7	0	---	7	0
Subtotal forest products, wood and chips	146	140	---	---	6	0	---	6	0
4170 wood in the rough	140	140	---	---	---	---	---	---	---
4189 lumber	6	---	---	---	6	0	---	6	0
4190 forest products nec	0	---	---	---	0	0	---	0	---
Subtotal soil, sand, gravel, rock and stone	7	---	6	---	1	---	---	1	---
4331 sand & gravel	7	---	6	---	1	---	---	1	---
Subtotal iron ore and scrap	0	---	---	---	0	---	---	---	0
4420 iron & steel scrap	0	---	---	---	0	---	---	---	0
Subtotal non-ferrous ores and scrap	227	21	---	205	---	---	---	---	---
4690 non-ferrous ores nec	227	21	---	205	---	---	---	---	---
Subtotal other non-metal. min.	0	---	---	---	0	---	---	0	0
4900 non-metal. min. nec	0	---	---	---	0	---	---	0	0
Total primary manufactured goods	8	---	---	---	8	0	0	7	0
Subtotal paper products	0	---	---	---	0	---	---	0	0
5190 paper products nec	0	---	---	---	0	---	---	0	0

JUNEAU HARBOR, AK
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign	Canadian		Domestic				
		Exports	Imports	Exports	Total	Coastwise		Internal	
					Receipts	Shipments	Inbound Upbound	Outbound Downbnd	
Subtotal lime, cement and glass	4	---	---	---	4	0	0	4	0
5220 cement & concrete	1	---	---	---	1	0	---	1	---
5240 glass & glass prod.	0	---	---	---	0	---	---	0	---
5290 misc. mineral prod.	4	---	---	---	4	0	0	4	0
Subtotal primary non-ferrous metal products	3	---	---	---	3	0	0	3	0
5480 fab. metal products	3	---	---	---	3	0	0	3	0
Total food and farm products	29	0	---	---	29	0	0	21	7
Subtotal fish	1	0	---	---	1	0	---	0	1
6134 fish (not shellfish)	1	0	---	---	1	0	---	0	1
Subtotal processed grain and animal feed	0	---	---	---	0	---	---	0	---
6782 animal feed, prep.	0	---	---	---	0	---	---	0	---
Subtotal other agricultural products	28	---	---	---	28	0	0	21	6
6835 fish, prepared	0	---	---	---	0	---	---	---	0
6885 alcoholic beverages	11	---	---	---	11	0	0	5	5
6887 groceries	12	---	---	---	12	0	0	11	1
6889 food products nec	5	---	---	---	5	---	---	5	0
Total all manufactured equipment, machinery and products	44	0	0	---	44	0	0	31	13
7110 machinery (not elec)	3	0	---	---	3	---	0	1	1
7120 electrical machinery	4	---	---	---	4	---	---	4	0
7210 vehicles & parts	2	---	---	---	2	0	0	2	0
7230 ships & boats	0	---	0	---	0	0	0	0	0
7400 manufac. wood prod.	3	---	---	---	3	0	---	3	0
7500 textile products	0	---	---	---	0	---	---	0	---
7600 rubber & plastic pr.	0	---	---	---	0	---	---	0	0
7900 manufac. prod. nec	31	---	---	---	31	0	0	20	11

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
1990	95,953	1993	85,722	1996	77,116	1999	53,392
1991	99,616	1994	85,096	1997	73,647		
1992	93,737	1995	80,955	1998	61,946		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Exports	Imports	Total	Coastwise		Internal Shipments	
					Receipts	Shipments		
Total, all commodities	53,391	3,992	6	49,394	23	49,358	12	
Total petroleum and petroleum products	53,391	3,992	6	49,394	23	49,358	12	
Subtotal crude petroleum	53,118	3,992	—	49,126	—	49,126	—	
2100 crude petroleum	53,118	3,992	—	49,126	—	49,126	—	
Subtotal petroleum products	273	—	6	268	23	232	12	
2211 gasoline	156	—	—	156	11	144	2	
2330 distillate fuel oil	117	—	6	111	13	89	10	
Total crude materials, inedible except fuels	0	—	—	0	—	—	0	
Subtotal forest products, wood and chips	0	—	—	0	—	—	0	
4189 lumber	0	—	—	0	—	—	0	
Total food and farm products	0	0	—	—	—	—	—	
Subtotal processed grain and animal feed	0	0	—	—	—	—	—	
6746 wheat flour	0	0	—	—	—	—	—	
Total all manufactured equipment, machinery and products	0	0	—	0	—	—	0	
7110 machinery (not elec)	0	—	—	0	—	—	0	
7120 electrical machinery	0	0	—	—	—	—	—	
7900 manufac. prod. nec	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 mllw 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 mllw.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	846	1993	862	1996	877	1999	614
1991	1,181	1994	961	1997	842		
1992	686	1995	928	1998	380		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Domestic		
		Exports	Imports	Total	Coastwise	
					Receipts	Shipments
Total, all commodities	614	546	—	68	49	19
Total coal	546	546	—	—	—	—
1100 coal lignite	546	546	—	—	—	—
Total petroleum and petroleum products	58	—	—	58	41	17
Subtotal petroleum products	58	—	—	58	41	17
2211 gasoline	8	—	—	8	—	8
2330 distillate fuel oil	9	—	—	9	—	9
2350 lube oil & greases	0	—	—	0	0	—
2430 asphalt, tar & pitch	41	—	—	41	41	—
2640 liquid natural gas	0	—	—	0	—	0
2990 petro. products nec	0	—	—	0	0	—
Total crude materials, inedible except fuels	3	—	—	3	3	—
Subtotal forest products, wood and chips	1	—	—	1	1	—
4189 lumber	1	—	—	1	1	—
Subtotal soil, sand, gravel, rock and stone	2	—	—	2	2	—
4323 gypsum	0	—	—	0	0	—

SEWARD HARBOR, AK
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign Exports	Domestic		
			Total	Coastwise	
				Receipts	Shipments
4331 sand & gravel	0	---	0	0	---
4338 soil & fill dirt	2	---	2	2	---
Subtotal other non-metal. min.	0	---	0	0	---
4900 non-metal. min. nec	0	---	0	0	---
Total primary manufactured goods	2	---	2	2	0
Subtotal lime, cement and glass	1	---	1	1	0
5220 cement & concrete	0	---	0	0	---
5240 glass & glass prod.	0	---	0	0	---
5290 misc. mineral prod.	1	---	1	1	0
Subtotal primary non-ferrous metal products	0	---	0	0	---
5480 fab. metal products	0	---	0	0	---
Subtotal primary wood products	1	---	1	1	---
5540 primary wood prod.	1	---	1	1	---
Total food and farm products	1	---	1	1	0
Subtotal fish	1	---	1	1	0
6134 fish (not shellfish)	0	---	0	---	0
6136 shellfish	1	---	1	1	---
Subtotal processed grain and animal feed	0	---	0	0	---
6746 wheat flour	0	---	0	0	---
Subtotal other agricultural products	0	---	0	0	---
6887 groceries	0	---	0	0	---
Total all manufactured equipment, machinery and products	4	---	4	2	2
7110 machinery (not elec)	2	---	2	0	2
7210 vehicles & parts	0	---	0	0	---
7230 ships & boats	0	---	0	0	0
7400 manufac. wood prod.	1	---	1	1	---
7900 manufac. prod. nec	1	---	1	1	---

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
1990	119	1993	472	1996	397	1999	271
1991	82	1994	377	1997	302		
1992	287	1995	501	1998	338		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign Exports	Canadian Exports	Domestic				
				Total	Coastwise		Internal	
					Receipts	Shipments	Receipts	Shipments
Total, all commodities	271	217	19	35	5	8	21	1
Total petroleum and petroleum products	25	---	---	25	5	0	20	0
Subtotal petroleum products	25	---	---	25	5	0	20	0
2211 gasoline	14	---	---	14	3	---	11	---
2330 distillate fuel oil	12	---	---	12	2	0	9	0
2640 liquid natural gas	0	---	---	0	---	---	---	0
Total chemicals and related products	93	93	---	0	---	---	0	0
Subtotal fertilizers	81	81	---	---	---	---	---	---
3110 nitrogenous fert.	81	81	---	---	---	---	---	---
Subtotal other chemicals and related products	12	11	---	0	---	---	0	0
3273 ammonia	11	11	---	---	---	---	---	---
3299 chem. products nec	0	---	---	0	---	---	0	0
Total crude materials, inedible except fuels	150	123	19	7	---	7	0	0
Subtotal forest products, wood and chips	149	123	19	7	---	7	0	0
4150 fuel wood	97	97	---	---	---	---	---	---
4161 wood chips	22	15	---	7	---	7	---	---
4170 wood in the rough	30	11	19	0	---	0	---	0
4189 lumber	0	---	---	0	---	0	0	0
Subtotal soil, sand, gravel, rock and stone	0	---	---	0	---	---	---	0
4331 sand & gravel	0	---	---	0	---	---	---	0

HOMER, AK
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign	Canadian	Domestic				
		Exports	Exports	Total	Coastwise		Internal	
					Receipts	Shipments	Receipts	Shipments
Total primary manufactured goods	0	---	---	0	0	0	0	0
Subtotal lime, cement and glass	0	---	---	0	0	0	0	0
5220 cement & concrete	0	---	---	0	---	---	0	0
5240 glass & glass prod.	0	---	---	0	0	---	0	0
5290 misc. mineral prod.	0	---	---	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	1	1	---	0	---	---	---	0
Subtotal fish	1	1	---	0	---	---	---	0
6134 fish (not shellfish)	1	1	---	0	---	---	---	0
Subtotal other agricultural products	0	---	---	0	---	---	---	0
6887 groceries	0	---	---	0	---	---	---	0
Total all manufactured equipment, machinery and products	2	---	---	2	0	1	0	0
7110 machinery (not elec)	1	---	---	1	0	1	0	0
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	---	0
7600 rubber & plastic pr.	0	---	---	0	---	---	---	0
7900 manufac. prod. nec	0	---	---	0	0	---	0	0

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 mllw.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	1,706	1993	2,470	1996	3,401	1999	3,701
1991	2,309	1994	2,559	1997	3,424		
1992	2,540	1995	3,222	1998	3,589		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Imports	Exports	Imports	Exports	Total	Coastwise		Internal Shipments
							Receipts	Shipments	
Total, all commodities	3,701	613	1,104	82	7	1,895	1,555	324	17
Total coal	72	---	72	---	---	---	---	---	---
1100 coal lignite	72	---	72	---	---	---	---	---	---
Total petroleum and petroleum products	1,290	509	394	15	---	371	166	189	17
Subtotal crude petroleum	215	215	---	---	---	---	---	---	---
2100 crude petroleum	215	215	---	---	---	---	---	---	---
Subtotal petroleum products	1,075	294	394	15	---	371	166	189	17
2211 gasoline	235	---	---	---	---	235	147	78	9
2221 kerosene	278	278	---	---	---	---	---	---	---
2330 distillate fuel oil	103	16	---	---	---	86	7	72	7
2340 residual fuel oil	88	---	86	---	---	2	---	2	---
2350 lube oil & greases	12	---	---	---	---	12	12	0	---
2429 naphtha & solvents	178	---	142	---	---	36	---	36	---
2430 asphalt, tar & pitch	1	---	---	1	---	---	---	---	---
2640 liquid natural gas	180	---	166	15	---	---	---	---	---
2990 petro. products nec	0	---	---	---	---	0	0	0	---

ANCHORAGE, AK
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			Internal Shipments
		Imports	Exports	Imports	Exports	Total	Coastwise		
							Receipts	Shipments	
Total chemicals and related products	353	0	292	26	---	35	28	7	---
Subtotal fertilizers	196	---	191	5	---	---	---	---	---
3110 nitrogenous fert.	191	---	191	0	---	---	---	---	---
3120 phosphatic fert.	1	---	---	1	---	---	---	---	---
3130 potassic fert.	4	---	---	4	---	---	---	---	---
Subtotal other chemicals and related products	156	0	101	21	---	35	28	7	---
3220 alcohols	29	---	---	16	---	13	13	---	---
3230 carboxylic acids	0	0	---	---	---	---	---	---	---
3260 organic comp. nec	0	0	---	0	---	---	---	---	---
3273 ammonia	101	---	101	---	---	---	---	---	---
3275 inorg. elem., oxides, & halogen salts	1	---	---	---	---	1	1	0	---
3276 metallic salts	0	0	---	---	---	---	---	---	---
3286 plastics	5	0	---	4	---	0	0	0	---
3298 wood & resin chem.	0	---	0	---	---	---	---	---	---
3299 chem. products nec	21	---	---	---	---	21	14	7	---
Total crude materials, inedible except fuels	337	---	271	20	7	40	36	3	---
Subtotal forest products, wood and chips	190	---	137	9	7	37	36	1	---
4150 fuel wood	20	---	20	---	---	---	---	---	---
4170 wood in the rough	125	---	117	0	7	---	---	---	---
4189 lumber	45	---	0	8	---	36	36	1	---
4190 forest products nec	1	---	---	---	---	1	1	0	---
Subtotal soil, sand, gravel, rock and stone	0	---	---	---	---	0	0	0	---
4331 sand & gravel	0	---	---	---	---	0	0	0	---
Subtotal iron ore and scrap	3	---	---	---	---	3	---	3	---
4420 iron & steel scrap	3	---	---	---	---	3	---	3	---
Subtotal marine shells	0	---	0	---	---	---	---	---	---
4515 marine shells	0	---	0	---	---	---	---	---	---
Subtotal non-ferrous ores and scrap	133	---	133	---	---	---	---	---	---
4690 non-ferrous ores nec	133	---	133	---	---	---	---	---	---
Subtotal other non-metal. min. min. nec	11	---	---	11	---	0	0	---	---
4900 non-metal. min. nec	11	---	---	11	---	0	0	---	---
Total primary manufactured goods	222	102	1	19	---	100	94	6	---
Subtotal paper products	14	0	0	---	---	14	14	0	---
5110 newsprint	0	---	0	---	---	---	---	---	---
5120 paper & paperboard	0	---	---	---	---	0	0	---	---
5190 paper products nec	14	0	---	---	---	14	14	0	---
Subtotal lime, cement and glass	140	102	0	5	---	34	33	1	---
5210 lime	5	---	---	5	---	---	---	---	---
5220 cement & concrete	103	102	---	---	---	1	1	0	---
5240 glass & glass prod.	0	---	---	---	---	0	0	---	---
5290 misc. mineral prod.	32	---	0	---	---	32	31	1	---

ANCHORAGE, AK
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Imports	Exports	Imports	Exports	Total	Coastwise		Internal Shipments
							Receipts	Shipments	
Subtotal primary iron and steel products	2	1	1	1	---	0	0	---	---
5330 i&s plates & sheets	1	---	1	---	---	---	---	---	---
5370 i&s pipe & tube	1	1	---	---	---	0	0	---	---
5390 primary i&s nec	1	---	---	1	---	---	---	---	---
Subtotal primary non-ferrous metal products	52	0	---	0	---	52	48	5	---
5429 smelted prod. nec	0	0	---	---	---	---	---	---	---
5480 fab. metal products	52	0	---	0	---	52	48	5	---
Subtotal primary wood products	14	---	0	14	---	---	---	---	---
5540 primary wood prod.	14	---	0	14	---	---	---	---	---
Total food and farm products	460	0	73	3	---	384	363	21	---
Subtotal fish	79	0	61	0	---	18	1	17	---
6134 fish (not shellfish)	76	---	58	0	---	18	1	17	---
6136 shellfish	3	0	3	---	---	---	---	---	---
Subtotal vegetable products	0	---	0	---	---	---	---	---	---
6654 vegetables & prod.	0	---	0	---	---	---	---	---	---
Subtotal processed grain and animal feed	10	---	7	2	---	0	0	---	---
6746 wheat flour	2	---	---	2	---	---	---	---	---
6781 hay & fodder	0	---	---	0	---	---	---	---	---
6782 animal feed, prep.	8	---	7	0	---	0	0	---	---
Subtotal other agricultural products	371	---	5	---	---	366	362	3	---
6811 meat, fresh, frozen	1	---	1	---	---	---	---	---	---
6835 fish, prepared	4	---	1	---	---	3	---	3	---
6838 tallow, animal oils	0	---	0	---	---	---	---	---	---
6839 animals & prod. nec	9	---	1	---	---	9	9	0	---
6885 alcoholic beverages	0	---	---	---	---	0	---	0	---
6887 groceries	354	---	---	---	---	354	354	0	---
6889 food products nec	2	---	2	---	---	---	---	---	---
Total all manufactured equipment, machinery and products	945	1	0	0	---	944	851	93	0
7110 machinery (not elec)	2	0	0	0	---	2	1	1	0
7120 electrical machinery	1	1	---	---	---	---	---	---	---
7210 vehicles & parts	73	---	0	---	---	73	50	23	0
7230 ships & boats	0	---	---	---	---	0	0	0	---
7400 manufac. wood prod.	32	---	---	0	---	32	31	1	---
7500 textile products	0	0	---	---	---	---	---	---	---
7600 rubber & plastic pr.	0	0	0	---	---	---	---	---	---
7900 manufac. prod. nec	837	0	0	---	---	837	769	68	---
Total unknown or not elsewhere classified	22	---	0	0	---	22	17	5	---
9900 unknown or nec	22	---	0	0	---	22	17	5	---

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
1990	443	1993	525	1996	766	1999	299
1991	571	1994	569	1997	853		
1992	490	1995	696	1998	207		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign Exports	Domestic			
			Total	Coastwise		Internal Intraport
				Receipts	Shipments	
Total, all commodities	299	20	279	166	109	4
Total petroleum and petroleum products	140	---	140	126	10	4
Subtotal petroleum products	140	---	140	126	10	4
2211 gasoline	51	---	51	47	3	2
2330 distillate fuel oil	77	---	77	68	7	3
2340 residual fuel oil	11	---	11	11	---	---
2640 liquid natural gas	0	---	0	---	0	---
Total chemicals and related products	1	---	1	0	1	---
Subtotal other chemicals and related products	1	---	1	0	1	---
3299 chem. products nec	1	---	1	0	1	---
Total crude materials, inedible except fuels	0	---	0	0	---	---
Subtotal other non-metal. min.	0	---	0	0	---	---
4900 non-metal. min. nec	0	---	0	0	---	---
Total primary manufactured goods	1	---	1	1	0	---
Subtotal paper products	0	---	0	0	---	---
5190 paper products nec	0	---	0	0	---	---
Subtotal lime, cement and glass	0	---	0	0	0	---
5220 cement & concrete	0	---	0	---	0	---
5240 glass & glass prod.	0	---	0	0	0	---
Subtotal primary non-ferrous metal products	1	---	1	1	0	---
5480 fab. metal products	1	---	1	1	0	---
Total food and farm products	28	20	9	2	7	---
Subtotal fish	23	16	7	1	6	---
6134 fish (not shellfish)	23	16	7	1	6	---
6136 shellfish	0	0	---	---	---	---
Subtotal vegetable products	0	---	0	0	---	---
6654 vegetables & prod.	0	---	0	0	---	---
Subtotal processed grain and animal feed	3	3	---	---	---	---
6782 animal feed, prep.	3	3	---	---	---	---
Subtotal other agricultural products	3	1	2	1	0	---
6811 meat, fresh, frozen	0	---	0	0	---	---
6835 fish, prepared	0	0	---	---	---	---
6839 animals & prod. nec	2	1	2	1	0	---
6858 fruit juices	0	---	0	0	---	---
Total all manufactured equipment, machinery and products	127	---	127	37	90	---
7110 machinery (not elec)	0	---	0	0	---	---
7210 vehicles & parts	0	---	0	0	0	---
7230 ships & boats	0	---	0	---	0	---
7900 manufac. prod. nec	127	---	127	37	90	---
Total unknown or not elsewhere classified	1	---	1	0	1	---
9900 unknown or nec	1	---	1	0	1	---

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
1990	945	1993	1,035	1996	939	1999	793
1991	1,205	1994	861	1997	1,275		
1992	1,179	1995	743	1998	895		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Domestic			Internal Intraport
		Imports	Exports	Total	Coastwise		
					Receipts	Shipments	
Total, all commodities	793	1	363	429	247	156	26
Total petroleum and petroleum products	198	—	0	198	155	20	22
Subtotal petroleum products	198	—	0	198	155	20	22
2211 gasoline	50	—	—	50	37	8	5
2330 distillate fuel oil	144	—	—	144	116	10	18
2340 residual fuel oil	3	—	—	3	1	2	—
2350 lube oil & greases	0	—	0	—	—	—	—
Total chemicals and related products	16	0	16	0	0	0	—
Subtotal fertilizers	0	—	0	—	—	—	—
3190 fert. & mixes nec	0	—	0	—	—	—	—
Subtotal other chemicals and related products	16	0	16	0	0	0	—
3230 carboxylic acids	0	0	0	—	—	—	—
3240 nitrogen func. comp.	0	0	—	—	—	—	—
3250 organo - inorg. comp.	0	—	0	—	—	—	—
3260 organic comp. nec	0	0	—	—	—	—	—
3272 sulphuric acid	0	—	0	—	—	—	—
3273 ammonia	14	—	14	—	—	—	—
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	—	—	—	—
3283 coloring mat. nec	0	—	0	—	—	—	—
3285 perfumes & cleansers	0	—	0	—	—	—	—
3286 plastics	2	0	2	0	0	—	—
3291 pesticides	0	—	0	—	—	—	—
3297 chemical additives	0	—	0	—	—	—	—
3299 chem. products nec	0	—	—	0	0	0	—
Total crude materials, inedible except fuels	19	0	11	8	6	2	—
Subtotal forest products, wood and chips	10	—	10	0	0	0	—
4170 wood in the rough	10	—	10	—	—	—	—
4189 lumber	0	—	0	0	0	0	—
Subtotal pulp and waste paper	1	—	1	—	—	—	—
4225 pulp & waste paper	1	—	1	—	—	—	—
Subtotal iron ore and scrap	2	—	—	2	2	—	—
4420 iron & steel scrap	2	—	—	2	2	—	—
Subtotal other non-metal. min.	6	0	—	6	4	2	—
4900 non-metal. min. nec	6	0	—	6	4	2	—
Total primary manufactured goods	13	0	3	10	8	2	0
Subtotal paper products	8	0	2	5	4	1	—
5120 paper & paperboard	2	—	2	—	—	—	—
5190 paper products nec	5	0	0	5	4	1	—
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	0	—	0	—	—	—	—
5330 i&s plates & sheets	0	—	0	—	—	—	—
5360 i&s bars & shapes	0	—	0	—	—	—	—
Subtotal primary non-ferrous metal products	6	0	0	5	4	1	0
5422 aluminum	0	—	0	—	—	—	—
5480 fab. metal products	6	0	0	5	4	1	0
Subtotal primary wood products	0	—	0	—	—	—	—
5540 primary wood prod.	0	—	0	—	—	—	—
Total food and farm products	417	0	330	86	43	39	4
Subtotal fish	344	0	265	78	39	38	1
6134 fish (not shellfish)	308	—	250	58	22	36	0
6136 shellfish	36	0	15	20	17	3	1
Subtotal vegetable products	1	—	1	0	0	—	—
6653 vegetable oils	0	—	0	—	—	—	—
6654 vegetables & prod.	1	—	1	0	0	—	—
Subtotal processed grain and animal feed	37	—	34	3	—	—	3
6746 wheat flour	5	—	5	—	—	—	—
6747 grain mill products	0	—	0	—	—	—	—
6782 animal feed, prep.	32	—	29	3	—	—	3

UNALASKA BAY AND ISLAND, AK
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Domestic			Internal Intraport
		Imports	Exports	Total	Coastwise		
					Receipts	Shipments	
Subtotal other agricultural products	35	0	30	5	4	1	0
6811 meat, fresh, frozen	0	—	—	0	0	—	—
6817 meat, prepared	0	—	0	—	—	—	—
6835 fish, prepared	25	—	21	4	3	0	0
6838 tallow, animal oils	0	—	0	—	—	—	—
6839 animals & prod. nec	2	—	1	1	1	1	—
6857 fruit & nuts nec	1	—	1	—	—	—	—
6858 fruit juices	0	—	—	0	0	—	—
6885 alcoholic beverages	0	—	0	—	—	—	—
6887 groceries	0	—	—	0	—	0	—
6889 food products nec	6	0	6	—	—	—	—
6891 tobacco & products	1	—	1	—	—	—	—
6899 farm products nec	0	—	0	—	—	—	—
Total all manufactured equipment, machinery and products	129	0	2	127	35	92	—
7110 machinery (not elec)	1	0	1	—	—	—	—
7120 electrical machinery	0	0	0	—	—	—	—
7210 vehicles & parts	0	—	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	127	0	0	127	35	92	—
Total unknown or not elsewhere classified	0	—	0	0	0	—	—
9900 unknown or nec	0	—	0	0	0	—	—

Other Harbors and Waterways 1999

Harbor or Waterway Project	Commodity	Thousand Short Tons
BETHEL HARBOR, AK	2211 gasoline	18
	2330 distillate fuel oil	5
	2350 lube oil & greases	0
	2640 liquid natural gas	0
	2990 petro. products nec	0
	3190 fert. & mixes nec	0
	3220 alcohols	0
	3286 plastics	0
	4161 wood chips	0
	4170 wood in the rough	0
	4189 lumber	3
	4190 forest products nec	0
	4331 sand & gravel	39
	4900 non-metal. min. nec	0
	5190 paper products nec	0
	5220 cement & concrete	0
	5240 glass & glass prod.	0
	5290 misc. mineral prod.	3
	5330 i&s plates & sheets	0
	5360 i&s bars & shapes	0
	5370 i&s pipe & tube	0
	5480 fab. metal products	3
	5540 primary wood prod.	1
	6134 fish (not shellfish)	1
	6654 vegetables & prod.	0
	6811 meat, fresh, frozen	0
	6835 fish, prepared	0
	6858 fruit juices	0
	6885 alcoholic beverages	0
	6887 groceries	1
	6888 water & ice	0
	6899 farm products nec	0
	7110 machinery (not elec)	9
7120 electrical machinery	0	
7210 vehicles & parts	3	
7230 ships & boats	0	
7400 manufac. wood prod.	3	
7600 rubber & plastic pr.	0	
7900 manufac. prod. nec	6	
	Total Tons(x1000)	95
CORDOVA HARBOR, AK	2211 gasoline	9
	2330 distillate fuel oil	14
	6134 fish (not shellfish)	6
	6887 groceries	1
	7110 machinery (not elec)	0
	7900 manufac. prod. nec	4
	9900 unknown or nec	0
	Total Tons(x1000)	34
CRAIG HARBOR, AK	2211 gasoline	5
	2330 distillate fuel oil	5
	2640 liquid natural gas	0
	4189 lumber	0
	5480 fab. metal products	0
	6885 alcoholic beverages	0
	7110 machinery (not elec)	0
	7210 vehicles & parts	0
7900 manufac. prod. nec	1	
	Total Tons(x1000)	11
DILLINGHAM HARBOR, AK	2211 gasoline	1
	2330 distillate fuel oil	2
	2350 lube oil & greases	0
	2990 petro. products nec	5
	4170 wood in the rough	0
	4189 lumber	1
	4190 forest products nec	0
	4331 sand & gravel	3
	4900 non-metal. min. nec	0
	5190 paper products nec	0
	5220 cement & concrete	0
5290 misc. mineral prod.	1	

Other Harbors and Waterways 1999 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons
DILLINGHAM HARBOR, AK - continued	5480 fab. metal products	1
	6134 fish (not shellfish)	1
	6654 vegetables & prod.	0
	6811 meat, fresh, frozen	0
	6835 fish, prepared	4
	6858 fruit juices	0
	6885 alcoholic beverages	0
	6887 groceries	1
	7110 machinery (not elec)	5
	7120 electrical machinery	0
	7210 vehicles & parts	0
	7230 ships & boats	0
	7400 manufac. wood prod.	1
	7900 manufac. prod. nec	3
	Total Tons(x1000)	30
DOUGLAS HARBOR, AK	2211 gasoline	1
	2330 distillate fuel oil	2
	Total Tons(x1000)	3
DRY PASS, AK	4170 wood in the rough	3
	4189 lumber	0
	Total Tons(x1000)	3
EGEGIK RIVER, AK	2211 gasoline	0
	2330 distillate fuel oil	1
	5480 fab. metal products	0
	6134 fish (not shellfish)	1
	6835 fish, prepared	1
	7210 vehicles & parts	0
	7900 manufac. prod. nec	0
	Total Tons(x1000)	3
ELFIN COVE HARBOR, AK	2211 gasoline	0
	2330 distillate fuel oil	1
	5480 fab. metal products	0
	Total Tons(x1000)	1
GASTINEAU CHANNEL, AK	No Commerce Reported	
HOONAH HARBOR, AK	2211 gasoline	1
	2330 distillate fuel oil	5
	2350 lube oil & greases	0
	2640 liquid natural gas	41
	4170 wood in the rough	67
	5190 paper products nec	0
	5220 cement & concrete	0
	5480 fab. metal products	0
	6134 fish (not shellfish)	1
	6887 groceries	0
	6889 food products nec	0
	7110 machinery (not elec)	1
	7900 manufac. prod. nec	2
Total Tons(x1000)	118	
HUMBOLDT HARBOR, AK	2211 gasoline	2
	2330 distillate fuel oil	14
	4331 sand & gravel	52
	4900 non-metal. min. nec	0
	5190 paper products nec	0
	5480 fab. metal products	1
	6134 fish (not shellfish)	1
	6654 vegetables & prod.	0
	6811 meat, fresh, frozen	0
	6858 fruit juices	0
	7110 machinery (not elec)	5

Other Harbors and Waterways 1999 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons
HUMBOLDT HARBOR, AK - continued	7900 manufac. prod. nec	2
	Total Tons(x1000)	77
KAKE HARBOR, AK	2211 gasoline	1
	2330 distillate fuel oil	4
	3282 pigments & paints	0
	3293 explosives	0
	3299 chem. products nec	0
	4170 wood in the rough	8
	4189 lumber	0
	5190 paper products nec	0
	5290 misc. mineral prod.	0
	5480 fab. metal products	0
	6885 alcoholic beverages	0
	6887 groceries	0
	6889 food products nec	0
	7110 machinery (not elec)	0
	7230 ships & boats	0
	7400 manufac. wood prod.	0
	7500 textile products	0
	7600 rubber & plastic pr.	0
7900 manufac. prod. nec	1	
Total Tons(x1000)	16	
KING COVE LAGOON, AK	2211 gasoline	0
	2330 distillate fuel oil	10
	4331 sand & gravel	49
	4900 non-metal. min. nec	1
	5190 paper products nec	0
	5480 fab. metal products	1
	6134 fish (not shellfish)	1
	6654 vegetables & prod.	0
	6811 meat, fresh, frozen	0
	6858 fruit juices	0
	7900 manufac. prod. nec	1
Total Tons(x1000)	63	
METLAKATLA HARBOR, AK	1100 coal lignite	0
	2211 gasoline	1
	2330 distillate fuel oil	2
	2990 petro. products nec	0
	3299 chem. products nec	1
	4110 rubber & gums	0
	4161 wood chips	6
	4170 wood in the rough	68
	4189 lumber	0
	4190 forest products nec	0
	4225 pulp & waste paper	0
	4331 sand & gravel	1
	4420 iron & steel scrap	0
	4782 clay & refrac. mat.	0
	5190 paper products nec	0
	5220 cement & concrete	0
	5240 glass & glass prod.	0
	5480 fab. metal products	2
	6889 food products nec	2
	7110 machinery (not elec)	1
	7120 electrical machinery	0
	7210 vehicles & parts	0
	7400 manufac. wood prod.	0
	7500 textile products	0
	7600 rubber & plastic pr.	0
	7900 manufac. prod. nec	0
	Total Tons(x1000)	87
NAKNEK RIVER, AK	2211 gasoline	5
	2330 distillate fuel oil	17
	2350 lube oil & greases	0
	2990 petro. products nec	6
	3286 plastics	0
	3299 chem. products nec	0

Other Harbors and Waterways 1999 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons
NAKNEK RIVER, AK - continued	4189 lumber 4190 forest products nec 4900 non-metal. min. nec 5190 paper products nec 5220 cement & concrete 5290 misc. mineral prod. 5480 fab. metal products 6134 fish (not shellfish) 6654 vegetables & prod. 6811 meat, fresh, frozen 6835 fish, prepared 6858 fruit juices 6885 alcoholic beverages 6887 groceries 7110 machinery (not elec) 7210 vehicles & parts 7230 ships & boats 7400 manufac. wood prod. 7900 manufac. prod. nec	2 0 0 1 0 2 1 15 0 0 12 0 0 0 0 0 0 2 6
	Total Tons(x1000)	71
	Total Ton-miles(x1000)	121
NINILCHIK HARBOR, AK	2330 distillate fuel oil 4189 lumber 5290 misc. mineral prod. 5480 fab. metal products 7110 machinery (not elec) 7210 vehicles & parts 7400 manufac. wood prod. 7900 manufac. prod. nec	0 0 0 0 0 0 0 0
	Total Tons(x1000)	0
NOME, AK	2211 gasoline 2330 distillate fuel oil 2350 lube oil & greases 2990 petro. products nec 3286 plastics 3299 chem. products nec 4189 lumber 4190 forest products nec 4331 sand & gravel 5190 paper products nec 5220 cement & concrete 5290 misc. mineral prod. 5480 fab. metal products 6782 animal feed, prep. 6885 alcoholic beverages 6887 groceries 7110 machinery (not elec) 7210 vehicles & parts 7230 ships & boats 7400 manufac. wood prod. 7900 manufac. prod. nec	19 7 0 6 0 0 2 0 29 0 0 2 0 0 0 0 0 3 2 0 2 7
	Total Tons(x1000)	79
OLD HARBOR, AK	2211 gasoline 2330 distillate fuel oil 5480 fab. metal products 7210 vehicles & parts 7230 ships & boats 7900 manufac. prod. nec	11 0 0 0 0 0
	Total Tons(x1000)	11
PELICAN HARBOR, AK	2211 gasoline 2330 distillate fuel oil 7900 manufac. prod. nec	0 1 0
	Total Tons(x1000)	1
PETERSBURG HARBOR, AK	2211 gasoline 2330 distillate fuel oil	6 12

Other Harbors and Waterways 1999 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons
PETERSBURG HARBOR, AK - continued	2350 lube oil & greases	0
	2990 petro. products nec	0
	3282 pigments & paints	0
	3286 plastics	0
	3293 explosives	0
	4170 wood in the rough	0
	4189 lumber	0
	4900 non-metal. min. nec	0
	5190 paper products nec	1
	5220 cement & concrete	0
	5290 misc. mineral prod.	1
	5480 fab. metal products	3
	6134 fish (not shellfish)	1
	6654 vegetables & prod.	0
	6811 meat, fresh, frozen	0
	6835 fish, prepared	7
	6858 fruit juices	0
	6885 alcoholic beverages	1
	6887 groceries	1
	6889 food products nec	1
	7110 machinery (not elec)	1
	7120 electrical machinery	1
	7210 vehicles & parts	1
	7230 ships & boats	0
	7400 manufac. wood prod.	1
	7600 rubber & plastic pr.	1
7900 manufac. prod. nec	15	
	Total Tons(x1000)	55
PORT ALEXANDER, AK	No Commerce Reported	
ROCKY PASS IN KEKU STRAIT, AK	2211 gasoline	0
	2330 distillate fuel oil	2
	Total Tons(x1000)	2
SELDOVIA HARBOR, AK	2211 gasoline	0
	2330 distillate fuel oil	0
	3299 chem. products nec	0
	4170 wood in the rough	0
	4331 sand & gravel	0
	5480 fab. metal products	0
	6134 fish (not shellfish)	0
	7110 machinery (not elec)	0
	7120 electrical machinery	0
	7210 vehicles & parts	0
	7900 manufac. prod. nec	0
	Total Tons(x1000)	1
SERGIUS AND WHITESTONE NARROWS, AK	2211 gasoline	16
	2330 distillate fuel oil	19
	2350 lube oil & greases	2
	2540 petroleum coke	0
	2990 petro. products nec	0
	3110 nitrogenous fert.	1
	3276 metallic salts	2
	3282 pigments & paints	1
	3286 plastics	0
	3293 explosives	1
	3299 chem. products nec	2
	4189 lumber	9
	4190 forest products nec	0
	4322 limestone	0
	4331 sand & gravel	1
	4420 iron & steel scrap	15
	4900 non-metal. min. nec	2
	5190 paper products nec	2
	5210 lime	1
	5220 cement & concrete	3
	5240 glass & glass prod.	0
	5290 misc. mineral prod.	4
5370 i&s pipe & tube	1	
5480 fab. metal products	12	

Other Harbors and Waterways 1999 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons
SERGIUS AND WHITESTONE NARROWS, AK - continued	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	4
	6858 fruit juices	0
	6885 alcoholic beverages	6
	6887 groceries	16
	6889 food products nec	9
	7110 machinery (not elec)	3
	7120 electrical machinery	6
	7210 vehicles & parts	4
	7230 ships & boats	0
	7400 manufac. wood prod.	6
	7500 textile products	1
	7600 rubber & plastic pr.	1
	7900 manufac. prod. nec	67
		Total Tons(x1000)
	Total Ton-miles(x1000)	1,917
SITKA HARBOR, AK	2211 gasoline	9
	2330 distillate fuel oil	10
	2350 lube oil & greases	0
	2990 petro. products nec	0
	3110 nitrogenous fert.	1
	3282 pigments & paints	0
	3293 explosives	0
	3299 chem. products nec	0
	4170 wood in the rough	11
	4189 lumber	1
	4190 forest products nec	0
	4331 sand & gravel	0
	4420 iron & steel scrap	15
	4900 non-metal. min. nec	0
	5190 paper products nec	0
	5220 cement & concrete	0
	5290 misc. mineral prod.	0
	5370 i&s pipe & tube	1
	5480 fab. metal products	4
	6134 fish (not shellfish)	5
	6136 shellfish	1
	6654 vegetables & prod.	0
	6811 meat, fresh, frozen	0
	6835 fish, prepared	0
	6858 fruit juices	0
	6887 groceries	5
	6889 food products nec	1
	7110 machinery (not elec)	1
	7120 electrical machinery	1
	7210 vehicles & parts	2
	7230 ships & boats	0
	7400 manufac. wood prod.	1
	7500 textile products	0
7600 rubber & plastic pr.	1	
7900 manufac. prod. nec	13	
	Total Tons(x1000)	85
SKAGWAY HARBOR, AK	2211 gasoline	25
	2221 kerosene	5
	2330 distillate fuel oil	47
	2350 lube oil & greases	1
	3110 nitrogenous fert.	0
	3276 metallic salts	0
	3299 chem. products nec	1
	4170 wood in the rough	0
	4189 lumber	1
	4322 limestone	0
	4900 non-metal. min. nec	1
	5190 paper products nec	0
	5210 lime	1
	5220 cement & concrete	0
	5290 misc. mineral prod.	0
	5370 i&s pipe & tube	0
	5480 fab. metal products	1
6885 alcoholic beverages	1	

Other Harbors and Waterways 1999 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons	
SKAGWAY HARBOR, AK - continued	6887 groceries	0	
	6889 food products nec	0	
	7110 machinery (not elec)	0	
	7120 electrical machinery	0	
	7230 ships & boats	0	
	7400 manufac. wood prod.	1	
	7500 textile products	0	
	7900 manufac. prod. nec	9	
	9900 unknown or nec	0	
	Total Tons(x1000)	95	
STIKINE RIVER, AK	No Commerce Reported		
WRANGELL HARBOR, AK	1100 coal lignite	0	
	2211 gasoline	4	
	2330 distillate fuel oil	5	
	2990 petro. products nec	0	
	3110 nitrogenous fert.	0	
	3286 plastics	0	
	3293 explosives	0	
	3299 chem. products nec	1	
	4110 rubber & gums	0	
	4161 wood chips	1	
	4170 wood in the rough	50	
	4189 lumber	3	
	4190 forest products nec	0	
	4225 pulp & waste paper	0	
	4331 sand & gravel	1	
	4420 iron & steel 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.	0	
	5370 i&s pipe & tube	0	
	5480 fab. metal products	3	
	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)	1	
	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	9	
	Total Tons(x1000)	89	
	Non-project		
	CHATHAM STRAIT, AK	2211 gasoline	27
2330 distillate fuel oil		36	
2350 lube oil & greases		1	
2990 petro. products nec		1	
3110 nitrogenous fert.		1	
3282 pigments & paints		0	
3286 plastics		0	
3293 explosives		2	
3299 chem. products nec		1	
4170 wood in the rough		357	
4189 lumber		19	
4190 forest products nec		1	
4323 gypsum		0	
4331 sand & gravel	6		
4420 iron & steel scrap	15		
4690 non-ferrous ores nec	262		

Other Harbors and Waterways 1999 - continued

Harbor or Waterway Non-project	Commodity	Thousand Short Tons	
CHATHAM STRAIT, AK - continued	4900 non-metal. min. nec	1	
	5190 paper products nec	3	
	5210 lime	0	
	5220 cement & concrete	5	
	5240 glass & glass prod.	0	
	5290 misc. mineral prod.	17	
	5370 i&s pipe & tube	1	
	5480 fab. metal products	17	
	5540 primary wood prod.	1	
	6134 fish (not shellfish)	4	
	6136 shellfish	3	
	6654 vegetables & prod.	0	
	6746 wheat flour	0	
	6782 animal feed, prep.	0	
	6811 meat, fresh, frozen	0	
	6835 fish, prepared	12	
	6858 fruit juices	0	
	6885 alcoholic beverages	2	
	6887 groceries	7	
	6889 food products nec	3	
	7110 machinery (not elec)	5	
	7120 electrical machinery	1	
	7210 vehicles & parts	5	
	7230 ships & boats	1	
	7400 manufac. wood prod.	17	
	7500 textile products	0	
	7600 rubber & plastic pr.	1	
	7900 manufac. prod. nec	69	
		Total Tons(x1000)	903
		Total Ton-miles(x1000)	47,513
	CLARENCE STRAIT, AK	1100 coal lignite	0
		2211 gasoline	45
		2330 distillate fuel oil	80
		2350 lube oil & greases	3
		2540 petroleum coke	0
		2990 petro. products nec	2
3110 nitrogenous fert.		1	
3276 metallic salts		2	
3282 pigments & paints		1	
3286 plastics		1	
3293 explosives		0	
3299 chem. products nec		3	
4110 rubber & gums		0	
4161 wood chips		3	
4170 wood in the rough		544	
4189 lumber		30	
4190 forest products nec		1	
4225 pulp & waste paper		0	
4322 limestone		0	
4323 gypsum		0	
4331 sand & gravel		2	
4420 iron & steel scrap		15	
4782 clay & refrac. mat.		0	
4900 non-metal. min. nec		3	
5190 paper products nec		5	
5210 lime		1	
5220 cement & concrete		6	
5240 glass & glass prod.		1	
5290 misc. mineral prod.		22	
5370 i&s pipe & tube		2	
5480 fab. metal products		31	
5540 primary wood prod.		1	
6134 fish (not shellfish)		10	
6136 shellfish		3	
6654 vegetables & prod.		0	
6746 wheat flour		0	
6782 animal feed, prep.	0		
6811 meat, fresh, frozen	0		
6835 fish, prepared	23		
6858 fruit juices	0		
6885 alcoholic beverages	13		
6887 groceries	24		
6889 food products nec	15		
7110 machinery (not elec)	16		
7120 electrical machinery	7		
7210 vehicles & parts	9		
7230 ships & boats	1		

Other Harbors and Waterways 1999 - continued

Harbor or Waterway Non-project	Commodity	Thousand Short Tons	
CLARENCE STRAIT, AK - continued	7400 manufac. wood prod.	27	
	7500 textile products	1	
	7600 rubber & plastic pr.	3	
	7900 manufac. prod. nec	136	
	Total Tons(x1000)	1,096	
	Total Ton-miles(x1000)	61,880	
FREDERICK SOUND, AK	2211 gasoline	42	
	2330 distillate fuel oil	65	
	2350 lube oil & greases	3	
	2540 petroleum coke	0	
	2990 petro. products nec	1	
	3110 nitrogenous fert.	1	
	3276 metallic salts	2	
	3282 pigments & paints	1	
	3286 plastics	0	
	3293 explosives	0	
	3299 chem. products nec	2	
	4170 wood in the rough	269	
	4189 lumber	10	
	4190 forest products nec	1	
	4322 limestone	0	
	4331 sand & gravel	7	
	4420 iron & steel scrap	15	
	4690 non-ferrous ores nec	227	
	4900 non-metal. min. nec	2	
	5190 paper products nec	2	
	5210 lime	1	
	5220 cement & concrete	5	
	5240 glass & glass prod.	0	
	5290 misc. mineral prod.	5	
	5370 i&s pipe & tube	1	
	5480 fab. metal products	15	
	6134 fish (not shellfish)	7	
	6136 shellfish	1	
	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	12	
	6887 groceries	20	
	6889 food products nec	9	
	7110 machinery (not elec)	6	
	7120 electrical machinery	6	
	7210 vehicles & parts	4	
	7230 ships & boats	0	
	7400 manufac. wood prod.	7	
	7500 textile products	1	
	7600 rubber & plastic pr.	2	
	7900 manufac. prod. nec	89	
		Total Tons(x1000)	843
		Total Ton-miles(x1000)	39,190
	ICY STRAIT, AK	2211 gasoline	37
		2221 kerosene	5
		2330 distillate fuel oil	67
		2350 lube oil & greases	1
		2640 liquid natural gas	41
		2990 petro. products nec	1
		3110 nitrogenous fert.	0
		3282 pigments & paints	0
		3286 plastics	0
		3299 chem. products nec	0
		4170 wood in the rough	151
		4189 lumber	17
4190 forest products nec		1	
4323 gypsum		0	
4331 sand & gravel		0	
4900 non-metal. min. nec		1	
5190 paper products nec		4	
5220 cement & concrete		1	
5240 glass & glass prod.		0	
5290 misc. mineral prod.		16	
5370 i&s pipe & tube		0	
5480 fab. metal products		13	
5540 primary wood prod.	1		

Other Harbors and Waterways 1999 - continued

Harbor or Waterway Non-project	Commodity	Thousand Short Tons
ICY STRAIT, AK - continued	6134 fish (not shellfish)	5
	6136 shellfish	3
	6654 vegetables & prod.	0
	6746 wheat flour	0
	6782 animal feed, prep.	0
	6811 meat, fresh, frozen	0
	6835 fish, prepared	14
	6858 fruit juices	0
	6885 alcoholic beverages	1
	6887 groceries	2
	6889 food products nec	1
	7110 machinery (not elec)	4
	7120 electrical machinery	0
	7210 vehicles & parts	3
	7230 ships & boats	1
	7400 manufac. wood prod.	17
	7600 rubber & plastic pr.	1
	7900 manufac. prod. nec	32
	9900 unknown or nec	0
		Total Tons(x1000)
	Total Ton-miles(x1000)	17,220
KIVILINA, AK	2211 gasoline	22
	2330 distillate fuel oil	15
	2429 naphtha & solvents	36
	3299 chem. products nec	0
	4690 non-ferrous ores nec	695
	5429 smelted prod. nec	1,148
	5480 fab. metal products	0
	7900 manufac. prod. nec	2
		Total Tons(x1000)
KLAWOCK, AK	2211 gasoline	0
	2330 distillate fuel oil	1
	4150 fuel wood	21
	4161 wood chips	96
	4170 wood in the rough	724
	4189 lumber	1
	5480 fab. metal products	0
	7110 machinery (not elec)	0
	7210 vehicles & parts	0
	7900 manufac. prod. nec	0
	Total Tons(x1000)	844
NIKISHKA, AK	2100 crude petroleum	1,578
	2211 gasoline	170
	2221 kerosene	110
	2330 distillate fuel oil	528
	2340 residual fuel oil	128
	2350 lube oil & greases	0
	2429 naphtha & solvents	61
	2430 asphalt, tar & pitch	275
	2640 liquid natural gas	1,117
	2990 petro. products nec	21
	3110 nitrogenous fert.	563
	3260 organic comp. nec	0
	3272 sulphuric acid	0
	3273 ammonia	553
	3274 sodium hydroxide	6
	3282 pigments & paints	0
	3285 perfumes & cleansers	0
	3286 plastics	0
	3297 chemical additives	0
	4170 wood in the rough	31
	5120 paper & paperboard	0
	5190 paper products nec	0
	5480 fab. metal products	0
	6134 fish (not shellfish)	4
	6654 vegetables & prod.	0
	6782 animal feed, prep.	0
	6822 dairy products	0
6839 animals & prod. nec	0	
6889 food products nec	0	
7110 machinery (not elec)	0	

Other Harbors and Waterways 1999 - continued

Harbor or Waterway Non-project	Commodity	Thousand Short Tons
NIKISHKA, AK - continued	7120 electrical machinery 7210 vehicles & parts 7500 textile products 7600 rubber & plastic pr. 7900 manufac. prod. nec	0 0 0 0 1
	Total Tons(x1000)	5,148
PRINCE OF WALES IS. WEST SIDE, AK	2211 gasoline 2330 distillate fuel oil 4170 wood in the rough 4189 lumber 5290 misc. mineral prod. 5480 fab. metal products 6887 groceries 7110 machinery (not elec) 7210 vehicles & parts 7230 ships & boats 7400 manufac. wood prod. 7600 rubber & plastic pr. 7900 manufac. prod. nec	0 1 506 0 0 0 0 2 0 0 0 0 0 3
	Total Tons(x1000)	513
REVILLAGIGADO CHANNEL, AK	1100 coal lignite 2211 gasoline 2221 kerosene 2330 distillate fuel oil 2350 lube oil & greases 2540 petroleum coke 2640 liquid natural gas 2990 petro. products nec 3110 nitrogenous fert. 3230 carboxylic acids 3276 metallic salts 3282 pigments & paints 3284 medicines 3285 perfumes & cleansers 3286 plastics 3293 explosives 3299 chem. products nec 4110 rubber & gums 4150 fuel wood 4161 wood chips 4170 wood in the rough 4189 lumber 4190 forest products nec 4225 pulp & waste paper 4322 limestone 4323 gypsum 4331 sand & gravel 4420 iron & steel scrap 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. 6746 wheat flour 6782 animal feed, prep. 6811 meat, fresh, frozen 6835 fish, prepared 6858 fruit juices 6885 alcoholic beverages 6887 groceries 6889 food products nec 7110 machinery (not elec) 7120 electrical machinery 7210 vehicles & parts 7230 ships & boats	1 57 2 79 5 0 2 2 2 0 5 2 0 0 1 0 9 0 0 187 682 59 2 0 0 0 20 20 0 10 7 3 9 3 22 2 41 1 41 2 0 0 1 0 29 0 16 28 39 12 8 12 1

Other Harbors and Waterways 1999 - continued

Harbor or Waterway Non-project	Commodity	Thousand Short Tons
REVILLAGIGADO CHANNEL, AK - continued	7400 manufac. wood prod.	33
	7500 textile products	1
	7600 rubber & plastic pr.	4
	7900 manufac. prod. nec	167
	9900 unknown or nec	0
	Total Tons(x1000)	1,651
Total Ton-miles(x1000)	70,469	
STEPHENS PASSAGE, AK	2211 gasoline	36
	2330 distillate fuel oil	46
	2350 lube oil & greases	2
	2540 petroleum coke	0
	2990 petro. products nec	1
	3110 nitrogenous fert.	1
	3276 metallic salts	2
	3282 pigments & paints	1
	3286 plastics	0
	3293 explosives	0
	3299 chem. products nec	2
	4170 wood in the rough	210
	4189 lumber	8
	4190 forest products nec	1
	4322 limestone	0
	4331 sand & gravel	7
	4420 iron & steel scrap	0
	4690 non-ferrous ores nec	227
	4900 non-metal. min. nec	2
	5190 paper products nec	1
	5210 lime	1
	5220 cement & concrete	3
	5240 glass & glass prod.	0
	5290 misc. mineral prod.	5
	5370 i&s pipe & tube	1
	5480 fab. metal products	9
	6134 fish (not shellfish)	4
	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	12
	6887 groceries	16
	6889 food products nec	9
	7110 machinery (not elec)	5
	7120 electrical machinery	5
	7210 vehicles & parts	2
	7230 ships & boats	0
	7400 manufac. wood prod.	6
	7500 textile products	1
7600 rubber & plastic pr.	1	
7900 manufac. prod. nec	73	
Total Tons(x1000)	702	
Total Ton-miles(x1000)	44,133	
SUMNER STRAIT, AK	1100 coal lignite	0
	2211 gasoline	44
	2330 distillate fuel oil	76
	2350 lube oil & greases	3
	2540 petroleum coke	0
	2990 petro. products nec	2
	3110 nitrogenous fert.	1
	3276 metallic salts	2
	3282 pigments & paints	1
	3286 plastics	1
	3293 explosives	0
	3299 chem. products nec	3
	4110 rubber & gums	0
	4161 wood chips	1
	4170 wood in the rough	247
	4189 lumber	29
	4190 forest products nec	1
	4225 pulp & waste paper	0
	4322 limestone	0
	4323 gypsum	0
	4331 sand & gravel	2
4420 iron & steel scrap	15	
4782 clay & refrac. mat.	0	

Other Harbors and Waterways 1999 - continued

Harbor or Waterway Non-project	Commodity	Thousand Short Tons	
SUMNER STRAIT, AK - continued	4900 non-metal. min. nec	3	
	5190 paper products nec	5	
	5210 lime	1	
	5220 cement & concrete	6	
	5240 glass & glass prod.	1	
	5290 misc. mineral prod.	22	
	5370 i&s pipe & tube	1	
	5480 fab. metal products	30	
	5540 primary wood prod.	1	
	6134 fish (not shellfish)	9	
	6136 shellfish	3	
	6654 vegetables & prod.	0	
	6746 wheat flour	0	
	6782 animal feed, prep.	0	
	6811 meat, fresh, frozen	0	
	6835 fish, prepared	22	
	6858 fruit juices	0	
	6885 alcoholic beverages	13	
	6887 groceries	23	
	6889 food products nec	13	
	7110 machinery (not elec)	10	
	7120 electrical machinery	7	
	7210 vehicles & parts	9	
	7230 ships & boats	1	
	7400 manufac. wood prod.	27	
	7500 textile products	1	
	7600 rubber & plastic pr.	3	
	7900 manufac. prod. nec	129	
		Total Tons(x1000)	768
	TONGASS NARROWS, AK	1100 coal lignite	1
		2211 gasoline	104
		2221 kerosene	2
		2330 distillate fuel oil	165
		2350 lube oil & greases	5
		2540 petroleum coke	0
2640 liquid natural gas		2	
2990 petro. products nec		2	
3110 nitrogenous fert.		2	
3230 carboxylic acids		0	
3276 metallic salts		5	
3282 pigments & paints		2	
3284 medicines		0	
3285 perfumes & cleansers		0	
3286 plastics		1	
3293 explosives		1	
3299 chem. products nec		8	
4110 rubber & gums		0	
4150 fuel wood		22	
4161 wood chips		184	
4170 wood in the rough		846	
4189 lumber		59	
4190 forest products nec		2	
4225 pulp & waste paper		0	
4322 limestone		0	
4323 gypsum		0	
4331 sand & gravel		21	
4420 iron & steel scrap		20	
4782 clay & refrac. mat.		0	
4900 non-metal. min. nec		10	
5190 paper products nec		8	
5210 lime		3	
5220 cement & concrete		8	
5240 glass & glass prod.		3	
5290 misc. mineral prod.		22	
5370 i&s pipe & tube		2	
5480 fab. metal products		39	
5540 primary wood prod.		1	
6134 fish (not shellfish)		41	
6136 shellfish		3	
6654 vegetables & prod.	0		
6746 wheat flour	0		
6782 animal feed, prep.	1		
6811 meat, fresh, frozen	0		
6835 fish, prepared	29		
6858 fruit juices	0		
6885 alcoholic beverages	16		

Other Harbors and Waterways 1999 - continued

Harbor or Waterway Non-project	Commodity	Thousand Short Tons
TONGASS NARROWS, AK - continued	6887 groceries	29
	6889 food products nec	37
	7110 machinery (not elec)	20
	7120 electrical machinery	8
	7210 vehicles & parts	12
	7230 ships & boats	1
	7400 manufac. wood prod.	33
	7500 textile products	1
	7600 rubber & plastic pr.	4
	7900 manufac. prod. nec	174
	9900 unknown or nec	0
	Total Tons(x1000)	1,956
	Total Ton-miles(x1000)	15,738

Section 2

Trips and Drafts of Vessels

Trips and Drafts of Vessels, 1999
(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	13,185	12,212	13	831	34	95	13,141	12,194	12	820	29	86		
			Inbound						Outbound					
FOREIGN	Total	704	486	2	130	7	79	679	468	2	124	10	75	
	40	—	—	—	—	—	—	1	1	—	—	—	—	
	38	—	—	—	—	—	—	1	1	—	—	—	—	
	37	3	3	—	—	—	—	3	3	—	—	—	—	
	36	1	1	—	—	—	—	—	—	—	—	—	—	
	35	3	2	1	—	—	—	2	2	—	—	—	—	
	34	13	13	—	—	—	—	3	3	—	—	—	—	
	33	4	4	—	—	—	—	2	2	—	—	—	—	
	32	3	3	—	—	—	—	—	—	—	—	—	—	
	31	3	3	—	—	—	—	5	5	—	—	—	—	
	30	2	2	—	—	—	—	6	6	—	—	—	—	
	29	11	11	—	—	—	—	7	6	—	—	1	—	
	28	25	24	1	—	—	—	10	10	—	—	—	—	
	27	20	20	—	—	—	—	18	18	—	—	—	—	
	26	30	29	—	—	1	—	33	33	—	—	—	—	
	25	52	52	—	—	—	—	32	32	—	—	—	—	
	24	51	51	—	—	—	—	48	48	—	—	—	—	
	23	63	63	—	—	—	—	72	71	1	—	—	—	
	22	15	15	—	—	—	—	27	27	—	—	—	—	
	21	11	11	—	—	—	—	17	17	—	—	—	—	
	20	6	6	—	—	—	—	12	10	—	1	1	—	
	19	7	7	—	—	—	—	3	2	1	—	—	—	
	≤ 18	381	166	—	130	6	79	377	171	—	123	8	75	
	DOMESTIC	Total	12,481	11,726	11	701	27	16	12,462	11,726	10	696	19	11
		36	5	—	5	—	—	—	—	—	—	—	—	—
		34	1	—	1	—	—	—	—	—	—	—	—	—
		33	1	—	1	—	—	—	—	—	—	—	—	—
		32	1	—	1	—	—	—	—	—	—	—	—	—
		28	1	—	1	—	—	—	—	—	—	—	—	—
		27	1	—	1	—	—	—	—	—	—	—	—	—
		25	1	—	1	—	—	—	—	—	—	—	—	—
		20	2	—	—	2	—	2	—	—	2	—	—	
		19	5	—	—	4	—	6	—	—	6	—	—	
		≤ 18	12,463	11,726	—	695	27	15	12,454	11,726	10	688	19	11
												Total trips:	26,326	
LONG BEACH HARBOR, CA														
Grand Total	27,573	9,572	652	13,062	3,582	705	26,862	9,115	648	13,030	3,406	663		
			Inbound						Outbound					
FOREIGN	Total	2,460	1,957	360	72	70	1	2,438	1,948	358	67	65	—	
	55	5	—	5	—	—	—	—	—	—	—	—	—	
	53	1	—	1	—	—	—	—	—	—	—	—	—	
	52	1	—	1	—	—	—	—	—	—	—	—	—	
	51	4	—	4	—	—	—	—	—	—	—	—	—	
	50	2	—	2	—	—	—	—	—	—	—	—	—	
	49	3	—	3	—	—	—	—	—	—	—	—	—	
	48	9	3	6	—	—	—	—	—	—	—	—	—	
	47	5	—	5	—	—	—	1	—	1	—	—	—	
	46	3	—	3	—	—	—	1	1	—	—	—	—	
	45	5	1	4	—	—	—	4	2	2	—	—	—	
	44	3	2	1	—	—	—	2	2	—	—	—	—	
	43	1	—	1	—	—	—	6	4	2	—	—	—	
	42	5	5	—	—	—	—	10	8	2	—	—	—	
	41	21	12	9	—	—	—	14	12	2	—	—	—	
	40	57	39	18	—	—	—	29	22	7	—	—	—	
	39	69	53	15	1	—	—	42	37	5	—	—	—	
	38	183	148	34	—	—	1	139	126	13	—	—	—	
	37	143	105	38	—	—	—	51	46	5	—	—	—	
	36	159	125	34	—	—	—	91	85	6	—	—	—	

Trips and Drafts of Vessels, 1999
(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

35	130	113	17	—	—	—	110	96	14	—	—	—
34	167	155	12	—	—	—	120	114	6	—	—	—
33	139	122	17	—	—	—	130	112	17	—	1	—
32	120	103	17	—	—	—	193	170	22	1	—	—
31	91	80	11	—	—	—	96	88	8	—	—	—
30	73	61	12	—	—	—	101	80	21	—	—	—
29	85	75	10	—	—	—	91	59	32	—	—	—
28	107	103	4	—	—	—	241	211	30	—	—	—
27	140	123	17	—	—	—	109	78	31	—	—	—
26	127	119	7	1	—	—	102	88	14	—	—	—
25	105	98	6	—	1	—	127	96	31	—	—	—
24	108	100	7	—	1	—	134	108	26	—	—	—
23	77	74	3	—	—	—	94	71	23	—	—	—
22	45	37	8	—	—	—	74	65	9	—	—	—
21	39	31	7	—	1	—	52	44	8	—	—	—
20	35	29	—	2	4	—	63	51	6	2	4	—
19	24	12	12	—	—	—	33	30	3	—	—	—
≤ 18	169	29	9	68	63	—	178	42	12	64	60	—

DOMESTIC

Total	25,113	7,615	292	12,990	3,512	704	24,424	7,167	290	12,963	3,341	663
60	25	—	25	—	—	—	1	—	1	—	—	—
59	12	—	12	—	—	—	—	—	—	—	—	—
58	3	—	3	—	—	—	—	—	—	—	—	—
57	10	—	10	—	—	—	—	—	—	—	—	—
56	1	—	1	—	—	—	—	—	—	—	—	—
55	2	—	2	—	—	—	—	—	—	—	—	—
54	2	—	2	—	—	—	—	—	—	—	—	—
52	1	—	1	—	—	—	—	—	—	—	—	—
51	1	—	1	—	—	—	—	—	—	—	—	—
48	2	—	2	—	—	—	—	—	—	—	—	—
47	—	—	—	—	—	—	2	—	2	—	—	—
44	—	—	—	—	—	—	2	—	2	—	—	—
43	—	—	—	—	—	—	1	—	1	—	—	—
42	2	—	2	—	—	—	1	—	1	—	—	—
41	1	—	1	—	—	—	2	—	2	—	—	—
40	3	—	3	—	—	—	1	—	1	—	—	—
39	13	—	13	—	—	—	6	—	6	—	—	—
38	8	—	8	—	—	—	10	—	10	—	—	—
37	13	—	13	—	—	—	6	—	6	—	—	—
36	9	—	9	—	—	—	15	1	14	—	—	—
35	6	—	6	—	—	—	21	1	20	—	—	—
34	12	—	11	—	—	1	22	5	17	—	—	—
33	4	—	4	—	—	—	14	5	9	—	—	—
32	8	—	7	1	—	—	19	3	14	2	—	—
31	4	—	4	—	—	—	20	11	9	—	—	—
30	18	—	18	—	—	—	21	6	15	—	—	—
29	7	—	7	—	—	—	15	3	12	—	—	—
28	182	175	6	—	—	1	11	—	11	—	—	—
27	14	11	3	—	—	—	37	31	5	—	—	1
26	15	8	4	—	—	3	6	—	6	—	—	—
25	21	13	8	—	—	—	9	—	6	—	—	3
24	5	4	1	—	—	—	—	—	—	—	—	—
23	2	2	—	—	—	—	3	—	3	—	—	—
22	1	—	1	—	—	—	2	—	1	—	—	1
21	3	—	1	—	—	2	1	—	1	—	—	—
20	25	—	6	15	—	4	35	—	6	23	—	6
19	21	—	—	19	—	2	29	—	1	21	—	7
≤ 18	24,657	7,402	97	12,955	3,512	691	24,112	7,101	108	12,917	3,341	645
										Total trips:		54,435

Trips and Drafts of Vessels, 1999
(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												
Grand Total	Inbound						Outbound					
	18,687	9,361	369	7,163	824	970	18,558	9,118	388	7,210	851	991
FOREIGN												
Total	2,531	2,342	164	13	9	3	2,546	2,329	192	13	10	2
52	—	—	—	—	—	—	1	1	—	—	—	—
50	—	—	—	—	—	—	1	1	—	—	—	—
49	—	—	—	—	—	—	1	1	—	—	—	—
48	1	—	1	—	—	—	—	—	—	—	—	—
47	1	—	1	—	—	—	2	1	1	—	—	—
45	—	—	—	—	—	—	1	1	—	—	—	—
44	—	—	—	—	—	—	1	1	—	—	—	—
43	3	1	2	—	—	—	7	4	3	—	—	—
42	2	2	—	—	—	—	7	7	—	—	—	—
41	13	10	3	—	—	—	12	12	—	—	—	—
40	34	30	4	—	—	—	17	16	1	—	—	—
39	73	71	2	—	—	—	37	35	2	—	—	—
38	91	78	13	—	—	—	55	54	1	—	—	—
37	121	107	14	—	—	—	67	63	4	—	—	—
36	139	121	18	—	—	—	69	62	7	—	—	—
35	106	91	15	—	—	—	84	75	9	—	—	—
34	128	118	10	—	—	—	94	89	5	—	—	—
33	115	108	7	—	—	—	116	112	4	—	—	—
32	78	71	7	—	—	—	195	187	8	—	—	—
31	90	83	7	—	—	—	94	92	2	—	—	—
30	84	78	6	—	—	—	119	102	16	—	—	1
29	128	119	8	—	—	1	72	65	7	—	—	—
28	129	117	12	—	—	—	157	143	14	—	—	—
27	144	137	7	—	—	—	125	114	11	—	—	—
26	134	131	3	—	—	—	170	152	18	—	—	—
25	267	259	8	—	—	—	280	249	30	—	—	1
24	117	114	3	—	—	—	118	102	16	—	—	—
23	221	218	2	—	—	1	235	227	8	—	—	—
≤ 22	312	278	11	13	9	1	409	361	25	13	10	—
DOMESTIC												
Total	16,156	7,019	205	7,150	815	967	16,012	6,789	196	7,197	841	989
47	1	—	1	—	—	—	—	—	—	—	—	—
42	—	—	—	—	—	—	1	—	1	—	—	—
41	1	—	1	—	—	—	—	—	—	—	—	—
39	2	—	2	—	—	—	—	—	—	—	—	—
38	3	—	3	—	—	—	—	—	—	—	—	—
37	7	1	6	—	—	—	1	—	1	—	—	—
36	7	3	4	—	—	—	4	1	3	—	—	—
35	7	2	4	—	—	1	5	4	1	—	—	—
34	14	5	9	—	—	—	8	4	4	—	—	—
33	8	5	3	—	—	—	11	5	6	—	—	—
32	16	9	5	2	—	—	28	21	6	1	—	—
31	22	19	3	—	—	—	33	30	3	—	—	—
30	28	21	7	—	—	—	36	33	3	—	—	—
29	33	29	4	—	—	—	21	12	9	—	—	—
28	239	234	5	—	—	—	25	24	1	—	—	—
27	24	20	3	—	—	1	16	12	4	—	—	—
26	27	18	5	—	—	4	20	14	6	—	—	—
25	12	11	—	—	—	1	13	11	2	—	—	—
24	2	2	—	—	—	—	7	6	1	—	—	—
23	5	3	—	—	—	2	1	—	1	—	—	—
≤ 22	15,698	6,637	140	7,148	815	958	15,782	6,612	144	7,196	841	989
Total trips:											841	989
Total trips:											37,245	
PORT HUENEME, CA												
Grand Total	Inbound						Outbound					
	2,273	2,242	6	5	1	19	2,264	2,240	5	1	1	17
FOREIGN												
Total	277	269	5	2	1	—	275	269	4	1	1	—
34	3	2	1	—	—	—	—	—	—	—	—	—
32	2	1	1	—	—	—	—	—	—	—	—	—
31	2	1	1	—	—	—	—	—	—	—	—	—
30	3	3	—	—	—	—	2	2	—	—	—	—
29	3	2	1	—	—	—	3	3	—	—	—	—

Trips and Drafts of Vessels, 1999
(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												
28	16	16	—	—	—	—	37	35	2	—	—	—
27	15	15	—	—	—	—	21	21	—	—	—	—
26	47	44	1	2	—	—	22	20	1	1	—	—
25	74	74	—	—	—	—	23	23	—	—	—	—
24	68	68	—	—	—	—	49	48	1	—	—	—
23	19	19	—	—	—	—	22	22	—	—	—	—
22	11	11	—	—	—	—	20	20	—	—	—	—
21	7	7	—	—	—	—	11	11	—	—	—	—
20	1	1	—	—	—	—	8	8	—	—	—	—
19	1	1	—	—	—	—	1	1	—	—	—	—
≤ 18	5	4	—	—	1	—	56	55	—	—	1	—
DOMESTIC												
Total	1,996	1,973	1	3	—	19	1,989	1,971	1	—	—	17
≤ 18	1,996	1,973	1	3	—	19	1,989	1,971	1	—	—	17
Total trips:											4,537	

MISSION BAY, CA
No Vessel Trips Reported

MORRO BAY HARBOR, CA
(10 feet and less)

Inbound							Outbound					
Grand Total	22	—	—	22	—	—	22	—	—	22	—	—
Total trips:											44	

NEWPORT BAY HARBOR, CA
(13 feet and less)

Inbound							Outbound					
Grand Total	311	310	—	—	—	1	333	310	—	1	22	—
Total trips:											644	

REDONDO BEACH, CA
(7 feet and less)

Inbound							Outbound					
Grand Total	67	17	—	50	—	—	68	18	—	50	—	—
Total trips:											135	

SANTA BARBARA HARBOR, CA
No Vessel Trips Reported

Trips and Drafts of Vessels, 1999
(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, CA												
Grand Total	1,334	1,133	4	171	26	—	1,336	1,138	10	161	27	—
			Upbound						Downbound			
FOREIGN												
Total	40	39	1	—	—	—	51	44	7	—	—	—
33	1	—	1	—	—	—	—	—	—	—	—	—
32	—	—	—	—	—	—	2	2	—	—	—	—
31	—	—	—	—	—	—	1	1	—	—	—	—
30	1	1	—	—	—	—	3	2	1	—	—	—
29	7	7	—	—	—	—	8	7	1	—	—	—
28	5	5	—	—	—	—	4	4	—	—	—	—
27	—	—	—	—	—	—	5	5	—	—	—	—
26	4	4	—	—	—	—	8	8	—	—	—	—
25	1	1	—	—	—	—	3	3	—	—	—	—
24	1	1	—	—	—	—	5	1	4	—	—	—
23	2	2	—	—	—	—	1	1	—	—	—	—
22	—	—	—	—	—	—	3	2	1	—	—	—
21	3	3	—	—	—	—	2	2	—	—	—	—
20	5	5	—	—	—	—	1	1	—	—	—	—
19	2	2	—	—	—	—	1	1	—	—	—	—
18	3	3	—	—	—	—	1	1	—	—	—	—
17	1	1	—	—	—	—	1	1	—	—	—	—
16	1	1	—	—	—	—	—	—	—	—	—	—
15	1	1	—	—	—	—	—	—	—	—	—	—
12	2	2	—	—	—	—	2	2	—	—	—	—
DOMESTIC												
Total	1,294	1,094	3	171	26	—	1,285	1,094	3	161	27	—
26	1	—	1	—	—	—	1	—	1	—	—	—
25	2	—	2	—	—	—	2	—	2	—	—	—
20	1	—	—	—	1	—	—	—	—	—	—	—
11	—	—	—	—	—	—	2	—	—	—	2	—
9	25	—	—	25	—	—	25	—	—	25	—	—
8	3	—	—	3	—	—	4	—	—	4	—	—
7	115	—	—	115	—	—	99	—	—	99	—	—
≤ 6	1,147	1,094	—	28	25	—	1,152	1,094	—	33	25	—
										Total trips:		2,670

SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, CA

Draft	Upbound				Downbound							
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Total	Pass & Dry Cargo	Tanker	Tow or Tug				
Grand Total	44	39	4	—	1	—	55	44	10	—	1	—
FOREIGN												
Total	40	39	1	—	—	—	51	44	7	—	—	—
33	1	—	1	—	—	—	—	—	—	—	—	—
32	—	—	—	—	—	—	2	2	—	—	—	—
31	—	—	—	—	—	—	1	1	—	—	—	—
30	1	1	—	—	—	—	3	2	1	—	—	—
29	7	7	—	—	—	—	8	7	1	—	—	—
28	5	5	—	—	—	—	4	4	—	—	—	—
27	—	—	—	—	—	—	5	5	—	—	—	—
26	4	4	—	—	—	—	8	8	—	—	—	—
25	1	1	—	—	—	—	3	3	—	—	—	—
24	1	1	—	—	—	—	5	1	4	—	—	—
23	2	2	—	—	—	—	1	1	—	—	—	—
22	—	—	—	—	—	—	3	2	1	—	—	—
21	3	3	—	—	—	—	2	2	—	—	—	—
20	5	5	—	—	—	—	1	1	—	—	—	—
19	2	2	—	—	—	—	1	1	—	—	—	—
18	3	3	—	—	—	—	1	1	—	—	—	—
17	1	1	—	—	—	—	1	1	—	—	—	—
16	1	1	—	—	—	—	—	—	—	—	—	—
15	1	1	—	—	—	—	—	—	—	—	—	—
12	2	2	—	—	—	—	2	2	—	—	—	—

Trips and Drafts of Vessels, 1999
(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	4	---	3	---	1	---	4	---	3	---	1	---
26	1	---	1	---	---	---	1	---	1	---	---	---
25	2	---	2	---	---	---	2	---	2	---	---	---
20	1	---	---	---	1	---	---	---	---	---	1	---
11	---	---	---	---	---	---	1	---	---	---	---	---
											Total trips:	99

SACRAMENTO, CA

Inbound

Outbound

Grand Total	1,156	1,133	4	18	1	---	1,170	1,138	10	20	2	---
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FOREIGN

Total	40	39	1	---	---	---	51	44	7	---	---	---
33	1	---	1	---	---	---	---	---	---	---	---	---
32	---	---	---	---	---	---	2	2	---	---	---	---
31	---	---	---	---	---	---	1	1	---	---	---	---
30	1	1	---	---	---	---	3	2	1	---	---	---
29	7	7	---	---	---	---	8	7	1	---	---	---
28	5	5	---	---	---	---	4	4	---	---	---	---
27	---	---	---	---	---	---	5	5	---	---	---	---
26	4	4	---	---	---	---	8	8	---	---	---	---
25	1	1	---	---	---	---	3	3	---	---	---	---
24	1	1	---	---	---	---	5	1	4	---	---	---
23	2	2	---	---	---	---	1	1	---	---	---	---
22	---	---	---	---	---	---	3	2	1	---	---	---
21	3	3	---	---	---	---	2	2	---	---	---	---
20	5	5	---	---	---	---	1	1	---	---	---	---
19	2	2	---	---	---	---	1	1	---	---	---	---
18	3	3	---	---	---	---	1	1	---	---	---	---
17	1	1	---	---	---	---	1	1	---	---	---	---
16	1	1	---	---	---	---	---	---	---	---	---	---
15	1	1	---	---	---	---	---	---	---	---	---	---
12	2	2	---	---	---	---	2	2	---	---	---	---

DOMESTIC

Total	1,116	1,094	3	18	1	---	1,119	1,094	3	20	2	---
26	1	---	1	---	---	---	1	---	1	---	---	---
25	2	---	2	---	---	---	2	---	2	---	---	---
20	1	---	---	---	1	---	---	---	---	---	---	---
11	---	---	---	---	---	---	2	---	---	---	2	---
9	1	---	---	1	---	---	1	---	---	1	---	---
8	---	---	---	---	---	---	1	---	---	1	---	---
7	14	---	---	14	---	---	13	---	---	13	---	---
≤ 6	1,097	1,094	---	3	---	---	1,099	1,094	---	5	---	---
											Total trips:	2,326

SAN JOAQUIN RIVER, CA

Upbound

Downbound

Grand Total	817	115	31	437	193	41	761	85	26	422	193	35
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FOREIGN

Total	105	75	28	1	1	---	103	77	24	1	1	---
33	3	2	1	---	---	---	3	3	---	---	---	---
32	15	10	5	---	---	---	4	3	1	---	---	---
31	28	19	9	---	---	---	3	3	---	---	---	---
30	9	7	2	---	---	---	3	3	---	---	---	---
29	8	6	2	---	---	---	8	7	1	---	---	---
28	5	4	1	---	---	---	15	8	5	1	1	---
27	6	4	2	---	---	---	10	9	1	---	---	---
26	4	2	2	---	---	---	11	8	3	---	---	---

Trips and Drafts of Vessels, 1999
(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												
25	4	4	—	—	—	—	16	11	5	—	—	—
24	6	4	2	—	—	—	5	5	—	—	—	—
23	—	—	—	—	—	—	1	1	—	—	—	—
22	5	4	1	—	—	—	7	2	5	—	—	—
21	2	2	—	—	—	—	5	5	—	—	—	—
20	4	4	—	—	—	—	2	2	—	—	—	—
19	1	—	1	—	—	—	5	4	1	—	—	—
18	—	—	—	—	—	—	2	—	2	—	—	—
17	2	2	—	—	—	—	1	1	—	—	—	—
16	1	1	—	—	—	—	—	—	—	—	—	—
15	—	—	—	—	—	—	1	1	—	—	—	—
14	1	—	—	—	1	—	1	1	—	—	—	—
≤ 12	1	—	—	1	—	—	—	—	—	—	—	—
DOMESTIC												
Total	712	40	3	436	192	41	658	8	2	421	192	35
32	1	—	1	—	—	—	—	—	—	—	—	—
31	1	—	1	—	—	—	—	—	—	—	—	—
29	1	—	1	—	—	—	—	—	—	—	—	—
25	—	—	—	—	—	—	2	—	2	—	—	—
18	2	—	—	—	—	2	—	—	—	—	—	—
17	27	—	—	27	—	—	21	—	—	21	—	—
15	19	—	—	16	—	3	16	—	—	16	—	—
14	11	—	—	—	—	11	—	—	—	—	—	—
13	5	—	—	4	—	1	4	—	—	4	—	—
≤ 12	645	40	—	389	192	24	615	8	—	380	192	35
Total trips:											1,578	

STOCKTON, CA

	Inbound						Outbound					
Grand Total	153	46	25	44	—	38	147	48	21	45	1	32
FOREIGN												
Total	55	33	22	—	—	—	56	35	19	1	1	—
32	10	6	4	—	—	—	2	1	1	—	—	—
31	13	6	7	—	—	—	—	—	—	—	—	—
30	4	2	2	—	—	—	1	1	—	—	—	—
29	4	2	2	—	—	—	1	1	—	—	—	—
28	3	2	1	—	—	—	10	4	4	1	1	—
27	4	2	2	—	—	—	7	6	1	—	—	—
26	3	2	1	—	—	—	7	4	3	—	—	—
25	2	2	—	—	—	—	6	1	5	—	—	—
24	3	1	2	—	—	—	4	4	—	—	—	—
23	—	—	—	—	—	—	1	1	—	—	—	—
22	3	2	1	—	—	—	5	1	4	—	—	—
21	1	1	—	—	—	—	4	4	—	—	—	—
20	3	3	—	—	—	—	2	2	—	—	—	—
19	—	—	—	—	—	—	3	3	—	—	—	—
≤ 18	2	2	—	—	—	—	3	2	1	—	—	—
DOMESTIC												
Total	98	13	3	44	—	38	91	13	2	44	—	32
32	1	—	1	—	—	—	—	—	—	—	—	—
31	1	—	1	—	—	—	—	—	—	—	—	—
29	1	—	1	—	—	—	—	—	—	—	—	—
25	—	—	—	—	—	—	2	—	2	—	—	—
≤ 18	95	13	—	44	—	38	89	13	—	44	—	32
Total trips:											300	

MIDDLE RIVER, CA
No Vessel Trips Reported

Trips and Drafts of Vessels, 1999
(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
MOKELUMNE RIVER, CA (6 feet and less)												
	Upbound						Downbound					
Grand Total	7	7	—	—	—	—	5	5	—	—	—	—
											Total trips:	12

OLD RIVER, CA
No Vessel Trips Reported

Trips and Drafts of Vessels, 1999
(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	3,348	2,201	617	316	13	201	3,130	1,998	598	301	19	214
FOREIGN												
Total	2,048	1,697	338	6	6	1	2,058	1,697	346	7	7	1
48	1	—	1	—	—	—	—	—	—	—	—	—
47	1	—	1	—	—	—	—	—	—	—	—	—
44	1	—	1	—	—	—	—	—	—	—	—	—
42	3	—	3	—	—	—	—	—	—	—	—	—
41	5	—	5	—	—	—	1	—	1	—	—	—
40	4	—	4	—	—	—	—	—	—	—	—	—
39	10	1	9	—	—	—	1	—	1	—	—	—
38	98	86	12	—	—	—	95	89	6	—	—	—
37	38	28	10	—	—	—	33	30	3	—	—	—
36	49	37	12	—	—	—	58	47	11	—	—	—
35	78	53	25	—	—	—	81	60	21	—	—	—
34	112	86	26	—	—	—	111	89	22	—	—	—
33	177	162	15	—	—	—	193	181	12	—	—	—
32	160	138	22	—	—	—	163	128	35	—	—	—
31	174	152	22	—	—	—	189	176	13	—	—	—
30	181	162	19	—	—	—	178	153	25	—	—	—
29	184	163	21	—	—	—	131	118	13	—	—	—
28	122	103	19	—	—	—	126	94	30	1	1	—
27	126	102	24	—	—	—	135	105	30	—	—	—
26	97	74	23	—	—	—	112	84	28	—	—	—
25	76	56	18	—	2	—	100	64	35	—	1	—
24	75	62	13	—	—	—	80	61	19	—	—	—
23	67	63	4	—	—	—	60	56	4	—	—	—
22	49	43	6	—	—	—	57	43	13	—	1	—
21	45	36	9	—	—	—	56	49	6	—	1	—
20	34	30	3	—	1	—	28	24	3	—	1	—
19	21	17	3	—	1	—	26	16	10	—	—	—
≤ 18	60	43	8	6	2	1	44	30	5	6	2	1
DOMESTIC												
Total	1,300	504	279	310	7	200	1,072	301	252	294	12	213
49	4	—	4	—	—	—	—	—	—	—	—	—
45	4	—	4	—	—	—	—	—	—	—	—	—
44	1	—	1	—	—	—	—	—	—	—	—	—
43	6	—	6	—	—	—	—	—	—	—	—	—
42	5	—	5	—	—	—	—	—	—	—	—	—
41	1	—	1	—	—	—	—	—	—	—	—	—
40	6	—	6	—	—	—	2	—	2	—	—	—
39	6	—	6	—	—	—	2	—	2	—	—	—
38	37	—	37	—	—	—	4	—	4	—	—	—
37	15	—	15	—	—	—	2	1	1	—	—	—
36	17	1	16	—	—	—	19	11	8	—	—	—
35	12	3	9	—	—	—	52	34	18	—	—	—
34	20	11	8	—	—	1	45	31	14	—	—	—
33	49	37	12	—	—	—	49	37	12	—	—	—
32	60	30	30	—	—	—	31	22	9	—	—	—
31	29	14	15	—	—	—	23	13	10	—	—	—
30	50	38	12	—	—	—	35	20	15	—	—	—
29	38	22	15	1	—	—	26	15	11	—	—	—
28	132	126	6	—	—	—	26	15	11	—	—	—
27	61	59	2	—	—	—	36	32	4	—	—	—
26	35	27	8	—	—	—	23	12	5	—	—	6
25	38	13	22	—	—	3	45	15	30	—	—	—
24	12	9	3	—	—	—	19	15	3	—	—	1
23	11	3	8	—	—	—	24	4	19	—	—	1
22	6	1	4	—	—	1	10	4	5	—	—	1
21	17	—	2	—	—	15	20	1	1	—	—	18
20	54	—	12	32	1	9	65	10	16	28	—	11
19	21	—	—	5	—	16	32	—	—	6	—	26
≤ 18	553	110	10	272	6	155	482	9	52	260	12	149
Total trips:											6,478	

Trips and Drafts of Vessels, 1999
(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	50,150	48,641	27	959	507	16	50,177	48,502	21	917	723	14

FOREIGN

Total	194	167	27	—	—	—	191	169	21	—	—	1
40	1	—	1	—	—	—	—	—	—	—	—	—
36	1	1	—	—	—	—	—	—	—	—	—	—
35	—	—	—	—	—	—	1	1	—	—	—	—
34	2	—	2	—	—	—	—	—	—	—	—	—
33	6	5	1	—	—	—	1	1	—	—	—	—
32	8	8	—	—	—	—	5	4	1	—	—	—
31	3	3	—	—	—	—	8	8	—	—	—	—
30	13	11	2	—	—	—	11	11	—	—	—	—
29	11	11	—	—	—	—	22	21	1	—	—	—
28	19	17	2	—	—	—	22	20	2	—	—	—
27	21	21	—	—	—	—	24	20	4	—	—	—
26	31	27	4	—	—	—	22	19	3	—	—	—
25	10	7	3	—	—	—	18	16	2	—	—	—
24	11	9	2	—	—	—	16	13	3	—	—	—
23	13	12	1	—	—	—	10	8	2	—	—	—
≤ 22	44	35	9	—	—	—	31	27	3	—	—	1

DOMESTIC

Total	49,956	48,474	—	959	507	16	49,986	48,333	—	917	723	13
23	1	—	—	—	—	1	—	—	—	—	—	—
≤ 22	49,955	48,474	—	959	507	15	49,986	48,333	—	917	723	13
Total trips:											100,327	

REDWOOD CITY HARBOR, CA

	Inbound						Outbound					
Grand Total	423	30	—	195	197	1	435	31	1	196	204	3

FOREIGN

Total	15	15	—	—	—	—	17	16	1	—	—	—
33	1	1	—	—	—	—	1	1	—	—	—	—
32	3	3	—	—	—	—	—	—	—	—	—	—
28	1	1	—	—	—	—	1	1	—	—	—	—
27	2	2	—	—	—	—	1	1	—	—	—	—
26	4	4	—	—	—	—	6	6	—	—	—	—
25	—	—	—	—	—	—	2	2	—	—	—	—
23	1	1	—	—	—	—	1	1	—	—	—	—
≤ 22	3	3	—	—	—	—	5	4	1	—	—	—

DOMESTIC

Total	408	15	—	195	197	1	418	15	—	196	204	3
≤ 22	408	15	—	195	197	1	418	15	—	196	204	3
Total trips:											858	

OAKLAND HARBOR, CA

	Inbound						Outbound					
Grand Total	14,314	11,266	8	2,411	477	152	14,106	11,117	8	2,356	474	151

FOREIGN

Total	1,276	1,266	8	1	1	—	1,258	1,250	8	—	—	—
38	85	84	1	—	—	—	89	89	—	—	—	—
37	26	25	1	—	—	—	30	30	—	—	—	—
36	36	36	—	—	—	—	46	45	1	—	—	—
35	51	51	—	—	—	—	57	57	—	—	—	—
34	84	84	—	—	—	—	86	86	—	—	—	—
33	148	148	—	—	—	—	173	172	1	—	—	—
32	112	112	—	—	—	—	115	114	1	—	—	—

Trips and Drafts of Vessels, 1999
(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												
31	125	124	1	—	—	—	159	159	—	—	—	—
30	140	140	—	—	—	—	131	130	1	—	—	—
29	128	128	—	—	—	—	80	79	1	—	—	—
28	69	69	—	—	—	—	52	52	—	—	—	—
27	73	71	2	—	—	—	58	58	—	—	—	—
26	23	22	1	—	—	—	22	22	—	—	—	—
25	34	33	1	—	—	—	16	16	—	—	—	—
24	37	37	—	—	—	—	37	36	1	—	—	—
23	40	40	—	—	—	—	37	37	—	—	—	—
≤ 22	65	62	1	1	1	—	70	68	2	—	—	—
DOMESTIC												
Total	13,038	10,000	—	2,410	476	152	12,848	9,867	—	2,356	474	151
37	—	—	—	—	—	—	3	3	—	—	—	—
36	2	2	—	—	—	—	26	26	—	—	—	—
35	5	5	—	—	—	—	36	36	—	—	—	—
34	23	23	—	—	—	—	38	38	—	—	—	—
33	33	33	—	—	—	—	34	34	—	—	—	—
32	17	17	—	—	—	—	13	13	—	—	—	—
31	16	16	—	—	—	—	10	10	—	—	—	—
30	38	38	—	—	—	—	15	15	—	—	—	—
29	21	21	—	—	—	—	15	15	—	—	—	—
28	122	122	—	—	—	—	12	12	—	—	—	—
27	65	65	—	—	—	—	42	42	—	—	—	—
26	21	21	—	—	—	—	11	11	—	—	—	—
25	10	10	—	—	—	—	11	11	—	—	—	—
24	10	10	—	—	—	—	12	12	—	—	—	—
23	1	1	—	—	—	—	3	3	—	—	—	—
≤ 22	12,654	9,616	—	2,410	476	152	12,567	9,586	—	2,356	474	151
										Total trips:		28,420

RICHMOND HARBOR, CA

Draft	Inbound						Outbound					
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
Grand Total	4,725	83	379	3,863	32	368	4,797	87	366	3,923	35	386
FOREIGN												
Total	262	77	176	4	4	1	267	82	177	4	4	—
48	1	—	1	—	—	—	—	—	—	—	—	—
47	1	—	1	—	—	—	—	—	—	—	—	—
44	1	—	1	—	—	—	—	—	—	—	—	—
42	3	—	3	—	—	—	—	—	—	—	—	—
41	5	—	5	—	—	—	—	—	—	—	—	—
40	3	—	3	—	—	—	—	—	—	—	—	—
39	9	1	8	—	—	—	1	—	1	—	—	—
38	12	2	10	—	—	—	5	—	5	—	—	—
37	8	3	5	—	—	—	2	—	2	—	—	—
36	8	—	8	—	—	—	7	2	5	—	—	—
35	19	1	18	—	—	—	16	2	14	—	—	—
34	15	1	14	—	—	—	16	1	15	—	—	—
33	12	4	8	—	—	—	7	3	4	—	—	—
32	12	2	10	—	—	—	31	2	29	—	—	—
31	6	1	5	—	—	—	10	3	7	—	—	—
30	11	1	10	—	—	—	21	4	17	—	—	—
29	20	10	10	—	—	—	7	2	5	—	—	—
28	11	4	7	—	—	—	18	6	12	—	—	—
27	16	4	12	—	—	—	18	6	12	—	—	—
26	14	7	7	—	—	—	20	12	8	—	—	—
25	19	8	9	—	2	—	29	10	18	—	1	—
24	14	6	8	—	—	—	8	3	5	—	—	—
23	4	3	1	—	—	—	6	4	2	—	—	—
≤ 22	38	19	12	4	2	1	45	22	16	4	3	—

Trips and Drafts of Vessels, 1999
(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

RICHMOND HARBOR, CA - continued

	Inbound						Outbound					
DOMESTIC												
Total	4,463	6	203	3,859	28	367	4,530	5	189	3,919	31	386
49	8	—	8	—	—	—	1	—	1	—	—	—
45	1	—	1	—	—	—	—	—	—	—	—	—
44	1	—	1	—	—	—	—	—	—	—	—	—
43	6	—	6	—	—	—	—	—	—	—	—	—
42	4	—	4	—	—	—	—	—	—	—	—	—
41	1	—	1	—	—	—	—	—	—	—	—	—
40	6	—	6	—	—	—	2	—	2	—	—	—
39	5	—	5	—	—	—	3	—	3	—	—	—
38	10	—	10	—	—	—	4	—	4	—	—	—
37	14	—	14	—	—	—	1	—	1	—	—	—
36	9	—	9	—	—	—	6	—	6	—	—	—
35	8	—	8	—	—	—	16	—	16	—	—	—
34	8	—	8	—	—	—	16	—	16	—	—	—
33	6	—	6	—	—	—	10	—	10	—	—	—
32	20	—	20	—	—	—	10	—	10	—	—	—
31	6	—	6	—	—	—	11	—	11	—	—	—
30	17	—	17	—	—	—	13	—	13	—	—	—
29	9	—	9	—	—	—	10	—	10	—	—	—
28	7	1	6	—	—	—	8	1	7	—	—	—
27	3	—	3	—	—	—	4	—	4	—	—	—
26	6	—	6	—	—	—	6	1	4	—	—	1
25	26	—	24	—	—	2	7	—	7	—	—	—
24	2	1	1	—	—	—	2	—	2	—	—	—
23	8	2	5	—	—	1	5	—	4	—	—	1
≤ 22	4,272	2	19	3,859	28	364	4,395	3	58	3,919	31	384
										Total trips:		9,522

SAN PABLO BAY AND MARE ISLAND STRAIT, CA

	Upbound						Downbound					
Grand Total	6,545	4,314	347	1,183	352	349	6,491	4,373	346	1,073	355	344

FOREIGN

Total	301	172	127	1	1	—	325	180	139	3	3	—
41	—	—	—	—	—	—	1	—	1	—	—	—
39	1	—	1	—	—	—	—	—	—	—	—	—
38	1	—	1	—	—	—	1	—	1	—	—	—
37	4	—	4	—	—	—	1	—	1	—	—	—
36	4	—	4	—	—	—	5	—	5	—	—	—
35	8	1	7	—	—	—	7	—	7	—	—	—
34	11	1	10	—	—	—	9	2	7	—	—	—
33	10	4	6	—	—	—	11	4	7	—	—	—
32	25	13	12	—	—	—	12	8	4	—	—	—
31	40	24	16	—	—	—	12	6	6	—	—	—
30	17	10	7	—	—	—	15	8	7	—	—	—
29	25	14	11	—	—	—	22	16	6	—	—	—
28	22	12	10	—	—	—	33	15	16	1	1	—
27	14	4	10	—	—	—	34	20	14	—	—	—
26	25	14	11	—	—	—	42	25	17	—	—	—
25	13	8	5	—	—	—	35	20	15	—	—	—
24	13	10	3	—	—	—	19	9	10	—	—	—
23	9	7	2	—	—	—	6	6	—	—	—	—
≤ 22	59	50	7	1	1	—	60	41	15	2	2	—

DOMESTIC

Total	6,244	4,142	220	1,182	351	349	6,166	4,193	207	1,070	352	344
45	4	—	4	—	—	—	—	—	—	—	—	—
42	1	—	1	—	—	—	—	—	—	—	—	—
40	—	—	—	—	—	—	1	—	1	—	—	—
39	1	—	1	—	—	—	—	—	—	—	—	—
38	2	—	2	—	—	—	1	—	1	—	—	—
37	1	—	1	—	—	—	—	—	—	—	—	—
36	8	—	8	—	—	—	4	—	4	—	—	—
35	4	—	4	—	—	—	2	—	2	—	—	—
34	8	2	5	—	—	1	1	—	1	—	—	—

Trips and Drafts of Vessels, 1999
(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 PABLO BAY AND MARE ISLAND STRAIT, CA - continued
Upbound

Downbound

DOMESTIC

33	13	6	7	—	—	—	2	—	2	—	—	—
32	89	2	87	—	—	—	4	—	4	—	—	—
31	17	—	17	—	—	—	5	—	5	—	—	—
30	36	—	36	—	—	—	11	—	11	—	—	—
29	11	—	10	1	—	—	8	—	8	—	—	—
28	4	—	4	—	—	—	7	1	6	—	—	—
27	5	—	5	—	—	—	2	—	2	—	—	—
26	7	—	7	—	—	—	7	—	2	—	—	5
25	5	—	4	—	—	1	27	2	25	—	—	—
24	2	—	2	—	—	—	7	4	2	—	—	1
23	4	—	3	—	—	1	16	2	11	—	—	3
≤ 22	6,022	4,132	12	1,181	351	346	6,061	4,184	120	1,070	352	335
											Total trips:	13,036

CARQUINEZ STRAIT, CA

Upbound

Downbound

Grand Total	2,185	187	327	1,135	221	315	2,064	193	327	1,014	223	307
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FOREIGN

Total	279	170	107	1	1	—	302	177	120	2	3	—
41	—	—	—	—	—	—	1	—	1	—	—	—
38	1	—	1	—	—	—	1	—	1	—	—	—
37	3	—	3	—	—	—	1	—	1	—	—	—
36	1	—	1	—	—	—	4	—	4	—	—	—
35	7	1	6	—	—	—	7	—	7	—	—	—
34	7	1	6	—	—	—	8	1	7	—	—	—
33	10	4	6	—	—	—	10	4	6	—	—	—
32	23	12	11	—	—	—	11	8	3	—	—	—
31	38	23	15	—	—	—	11	6	5	—	—	—
30	13	10	3	—	—	—	12	7	5	—	—	—
29	25	14	11	—	—	—	20	15	5	—	—	—
28	21	12	9	—	—	—	28	15	11	1	1	—
27	13	4	9	—	—	—	31	20	11	—	—	—
26	25	14	11	—	—	—	40	25	15	—	—	—
25	12	8	4	—	—	—	34	20	14	—	—	—
24	13	10	3	—	—	—	18	9	9	—	—	—
23	8	7	1	—	—	—	6	6	—	—	—	—
≤ 22	59	50	7	1	1	—	59	41	15	1	2	—

DOMESTIC

Total	1,906	17	220	1,134	220	315	1,762	16	207	1,012	220	307
45	4	—	4	—	—	—	1	—	1	—	—	—
42	1	—	1	—	—	—	—	—	—	—	—	—
40	—	—	—	—	—	—	1	—	1	—	—	—
39	1	—	1	—	—	—	—	—	—	—	—	—
38	2	—	2	—	—	—	2	—	2	—	—	—
37	2	—	2	—	—	—	—	—	—	—	—	—
36	6	—	6	—	—	—	4	—	4	—	—	—
35	7	—	7	—	—	—	4	—	4	—	—	—
34	11	4	6	—	—	1	3	1	2	—	—	—
33	12	4	8	—	—	—	2	—	2	—	—	—
32	90	2	88	—	—	—	3	—	3	—	—	—
31	15	—	15	—	—	—	6	—	6	—	—	—
30	35	—	35	—	—	—	10	—	10	—	—	—
29	11	—	10	1	—	—	4	—	4	—	—	—
28	4	—	4	—	—	—	8	1	7	—	—	—
27	4	—	4	—	—	—	3	—	3	—	—	—
26	6	—	6	—	—	—	6	—	2	—	—	4
25	5	—	4	—	—	1	27	3	24	—	—	—
24	3	—	3	—	—	—	6	2	2	—	—	2
23	3	—	2	—	—	1	13	2	11	—	—	—
≤ 22	1,684	7	12	1,133	220	312	1,659	7	119	1,012	220	301
											Total trips:	4,249

Trips and Drafts of Vessels, 1999
(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

	Upbound						Downbound					
Grand Total	1,437	122	57	766	318	174	1,465	128	58	788	319	172

FOREIGN

Total	164	115	47	1	1	—	175	122	51	1	1	—
37	1	—	1	—	—	—	—	—	—	—	—	—
36	1	—	1	—	—	—	2	—	2	—	—	—
35	1	—	1	—	—	—	—	—	—	—	—	—
34	1	—	1	—	—	—	1	—	1	—	—	—
33	6	2	4	—	—	—	3	3	—	—	—	—
32	18	10	8	—	—	—	7	5	2	—	—	—
31	28	19	9	—	—	—	5	4	1	—	—	—
30	10	8	2	—	—	—	6	5	1	—	—	—
29	16	13	3	—	—	—	18	15	3	—	—	—
28	13	9	4	—	—	—	21	12	7	1	1	—
27	8	4	4	—	—	—	18	14	4	—	—	—
26	9	6	3	—	—	—	23	16	7	—	—	—
25	6	5	1	—	—	—	19	14	5	—	—	—
24	7	5	2	—	—	—	12	6	6	—	—	—
23	2	2	—	—	—	—	2	2	—	—	—	—
22	6	4	2	—	—	—	12	4	8	—	—	—
21	5	5	—	—	—	—	7	7	—	—	—	—
20	9	9	—	—	—	—	4	3	1	—	—	—
19	3	2	1	—	—	—	6	5	1	—	—	—
≤ 18	14	12	—	1	1	—	9	7	2	—	—	—

DOMESTIC

Total	1,273	7	10	765	317	174	1,290	6	7	787	318	172
32	1	—	1	—	—	—	—	—	—	—	—	—
31	1	—	1	—	—	—	—	—	—	—	—	—
30	—	—	—	—	—	—	2	—	2	—	—	—
29	3	—	3	—	—	—	1	—	1	—	—	—
28	1	—	1	—	—	—	—	—	—	—	—	—
27	1	—	1	—	—	—	1	—	1	—	—	—
26	2	—	2	—	—	—	1	—	1	—	—	—
25	—	—	—	—	—	—	2	—	2	—	—	—
24	1	—	1	—	—	—	—	—	—	—	—	—
22	1	—	—	—	—	1	—	—	—	—	—	—
21	—	—	—	—	—	—	4	—	—	—	—	4
20	11	—	—	9	1	1	10	—	—	9	—	1
19	4	—	—	1	—	3	7	—	—	1	—	6
≤ 18	1,247	7	—	755	316	169	1,262	6	—	777	318	161
										Total trips:		2,902

PETALUMA RIVER, CA

	Upbound						Downbound					
Grand Total	405	—	—	162	243	—	405	—	—	162	243	—

DOMESTIC

Total	405	—	—	162	243	—	405	—	—	162	243	—
13	89	—	—	—	89	—	—	—	—	—	—	—
12	28	—	—	—	28	—	—	—	—	—	—	—
11	15	—	—	—	15	—	—	—	—	—	—	—
10	6	—	—	—	6	—	—	—	—	—	—	—
9	129	—	—	126	3	—	126	—	—	126	—	—
8	—	—	—	—	—	—	28	—	—	—	28	—
6	42	—	—	36	6	—	38	—	—	36	2	—
5	44	—	—	—	44	—	1	—	—	—	1	—
4	—	—	—	—	—	—	3	—	—	—	3	—
3	15	—	—	—	15	—	207	—	—	—	207	—
2	37	—	—	—	37	—	2	—	—	—	2	—
										Total trips:		810

Trips and Drafts of Vessels, 1999
(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												
				Inbound						Outbound		
Grand Total	1,321	323	---	179	775	44	1,296	322	---	170	763	41
FOREIGN												
Total	83	64	---	9	10	---	69	63	---	3	3	---
34	---	---	---	---	---	---	1	1	---	---	---	---
33	---	---	---	---	---	---	5	5	---	---	---	---
32	1	1	---	---	---	---	3	3	---	---	---	---
31	1	1	---	---	---	---	5	5	---	---	---	---
30	2	2	---	---	---	---	5	5	---	---	---	---
29	7	7	---	---	---	---	1	1	---	---	---	---
28	2	2	---	---	---	---	12	12	---	---	---	---
27	4	4	---	---	---	---	5	5	---	---	---	---
26	11	11	---	---	---	---	2	2	---	---	---	---
25	9	9	---	---	---	---	10	10	---	---	---	---
24	4	4	---	---	---	---	3	3	---	---	---	---
23	12	12	---	---	---	---	1	1	---	---	---	---
22	4	4	---	---	---	---	6	6	---	---	---	---
21	---	---	---	---	---	---	1	1	---	---	---	---
20	3	3	---	---	---	---	3	3	---	---	---	---
19	2	2	---	---	---	---	---	---	---	---	---	---
≤ 18	21	2	---	9	10	---	6	---	---	3	3	---
DOMESTIC												
Total	1,238	259	---	170	765	44	1,227	259	---	167	760	41
≤ 18	1,238	259	---	170	765	44	1,227	259	---	167	760	41
										Total trips:		2,617
BERKELEY, CA (7 feet and less)												
				Inbound						Outbound		
Grand Total	812	812	---	---	---	---	812	812	---	---	---	---
										Total trips:		1,624
BODEGA BAY, CA No Vessel Trips Reported												
CRESCENT CITY HARBOR, CA No Vessel Trips Reported												
MONTEREY HARBOR, CA (12 feet and less)												
				Inbound						Outbound		
Grand Total	1	1	---	---	---	---	2	2	---	---	---	---
										Total trips:		3
MOSS LANDING HARBOR, CA No Vessel Trips Reported												
NAPA RIVER, CA (13 feet and less)												
				Upbound						Downbound		
Grand Total	156	28	---	65	63	---	157	28	---	66	63	---
										Total trips:		313
NOYO RIVER, CA No Vessel Trips Reported												

Trips and Drafts of Vessels, 1999
(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
PILLAR POINT HARBOR, CA No Vessel Trips Reported												
SAN RAFAEL CREEK, CA (12 feet and less)												
Grand Total	1	—	—	—	1	—	1	—	—	—	1	—
										Total trips:	2	—
SANTA CRUZ HARBOR, CA (10 feet and less)												
Grand Total	349	349	—	—	—	—	349	349	—	—	—	—
										Total trips:	698	—
SUISUN CHANNEL, CA No Vessel Trips Reported												
OTHER SAN FRANCISCO BAY AREA PORTS, CA (38 feet and less)												
Grand Total	26,495	23,391	152	1,938	965	49	26,561	23,410	155	1,984	964	48
										Total trips:	53,056	—

Trips and Drafts of Vessels, 1999
(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	823	15	---	390	328	90	787	13	1	353	328	92
FOREIGN												
Total	13	13	---	---	---	---	13	12	1	---	---	---
37	---	---	---	---	---	---	1	1	---	---	---	---
27	3	3	---	---	---	---	3	3	---	---	---	---
26	1	1	---	---	---	---	1	1	---	---	---	---
25	5	5	---	---	---	---	3	3	---	---	---	---
24	2	2	---	---	---	---	3	3	---	---	---	---
23	1	1	---	---	---	---	1	1	---	---	---	---
20	---	---	---	---	---	---	1	---	1	---	---	---
≤ 18	1	1	---	---	---	---	---	---	---	---	---	---
DOMESTIC												
Total	810	2	---	390	328	90	774	1	---	353	328	92
19	23	---	---	---	---	23	7	---	---	---	---	7
≤ 18	787	2	---	390	328	67	767	1	---	353	328	85
Total trips:											1,610	
KAWAIHAE HARBOR, HI												
	Inbound						Outbound					
Grand Total	639	---	---	255	372	12	661	---	---	279	372	10
DOMESTIC												
Total	639	---	---	255	372	12	661	---	---	279	372	10
21	6	---	---	---	6	---	---	---	---	---	---	---
19	10	---	---	---	---	10	5	---	---	---	---	5
≤ 18	623	---	---	255	366	2	656	---	---	279	372	5
Total trips:											1,300	
KAHULUI HARBOR, MAUI, HI												
	Inbound						Outbound					
Grand Total	1,442	55	2	614	656	115	1,449	48	1	622	666	112
FOREIGN												
Total	49	46	2	1	---	---	40	38	1	1	---	---
32	1	1	---	---	---	---	1	1	---	---	---	---
30	1	1	---	---	---	---	---	---	---	---	---	---
28	1	1	---	---	---	---	1	1	---	---	---	---
27	11	11	---	---	---	---	8	8	---	---	---	---
26	4	4	---	---	---	---	4	4	---	---	---	---
25	11	10	---	1	---	---	8	7	---	1	---	---
24	9	9	---	---	---	---	7	7	---	---	---	---
23	2	2	---	---	---	---	2	2	---	---	---	---
22	1	1	---	---	---	---	1	1	---	---	---	---
21	2	1	1	---	---	---	2	1	1	---	---	---
20	---	---	---	---	---	---	1	1	---	---	---	---
19	1	1	---	---	---	---	1	1	---	---	---	---
≤ 18	5	4	1	---	---	---	4	4	---	---	---	---
DOMESTIC												
Total	1,393	9	---	613	656	115	1,409	10	---	621	666	112
34	---	---	---	---	---	---	1	1	---	---	---	---
33	---	---	---	---	---	---	4	4	---	---	---	---
32	---	---	---	---	---	---	2	2	---	---	---	---
27	---	---	---	---	---	---	1	1	---	---	---	---
25	4	4	---	---	---	---	---	---	---	---	---	---
24	2	2	---	---	---	---	---	---	---	---	---	---
22	1	1	---	---	---	---	---	---	---	---	---	---
21	186	---	---	---	186	---	148	---	---	---	148	---

Trips and Drafts of Vessels, 1999
(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

KAHULUI HARBOR, MAUI, HI - continued

Inbound

Outbound

DOMESTIC

19	45	—	—	—	—	45	16	—	—	—	—	16
≤ 18	1,155	2	—	613	470	70	1,237	2	—	621	518	96
										Total trips:		2,891

BARBERS POINT HARBOR, OAHU, HI

Inbound

Outbound

Grand Total	1,922	49	123	1,418	47	285	1,827	48	116	1,323	45	295
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FOREIGN

Total	119	25	88	3	3	—	118	24	90	2	2	—
52	1	—	1	—	—	—	—	—	—	—	—	—
51	3	—	3	—	—	—	—	—	—	—	—	—
50	1	—	1	—	—	—	—	—	—	—	—	—
49	2	—	2	—	—	—	—	—	—	—	—	—
48	4	—	4	—	—	—	—	—	—	—	—	—
47	7	—	7	—	—	—	—	—	—	—	—	—
46	5	—	5	—	—	—	1	—	1	—	—	—
45	5	—	5	—	—	—	2	—	2	—	—	—
44	3	—	3	—	—	—	1	—	1	—	—	—
43	3	—	3	—	—	—	—	—	—	—	—	—
42	3	—	3	—	—	—	1	—	1	—	—	—
41	6	—	6	—	—	—	—	—	—	—	—	—
40	3	—	3	—	—	—	1	—	1	—	—	—
39	2	—	2	—	—	—	3	2	1	—	—	—
38	2	—	2	—	—	—	1	1	—	—	—	—
37	—	—	—	—	—	—	1	—	1	—	—	—
36	9	8	1	—	—	—	5	3	2	—	—	—
35	—	—	—	—	—	—	3	—	3	—	—	—
34	3	2	1	—	—	—	10	2	8	—	—	—
33	2	1	1	—	—	—	3	—	3	—	—	—
32	4	2	2	—	—	—	12	—	12	—	—	—
31	1	—	1	—	—	—	3	1	2	—	—	—
30	3	1	2	—	—	—	8	3	5	—	—	—
29	2	—	2	—	—	—	5	1	4	—	—	—
28	1	1	—	—	—	—	16	3	13	—	—	—
27	—	—	—	—	—	—	3	—	3	—	—	—
26	1	—	1	—	—	—	—	—	—	—	—	—
25	12	1	11	—	—	—	6	—	6	—	—	—
24	5	1	4	—	—	—	6	2	4	—	—	—
23	2	1	1	—	—	—	3	2	1	—	—	—
22	—	—	—	—	—	—	7	—	7	—	—	—
21	3	3	—	—	—	—	6	2	4	—	—	—
20	1	—	1	—	—	—	—	—	—	—	—	—
19	1	—	1	—	—	—	—	—	—	—	—	—
18	—	—	—	—	—	—	3	—	3	—	—	—
17	3	1	2	—	—	—	—	—	—	—	—	—
16	2	1	1	—	—	—	2	—	2	—	—	—
14	1	—	1	—	—	—	2	—	—	—	2	—
13	3	—	3	—	—	—	—	—	—	—	—	—
≤ 12	10	2	2	3	3	—	4	2	—	2	—	—

DOMESTIC

Total	1,803	24	35	1,415	44	285	1,709	24	26	1,321	43	295
54	1	—	1	—	—	—	—	—	—	—	—	—
53	1	—	1	—	—	—	—	—	—	—	—	—
52	1	—	1	—	—	—	—	—	—	—	—	—
49	1	—	1	—	—	—	—	—	—	—	—	—
48	5	—	5	—	—	—	—	—	—	—	—	—
47	4	—	4	—	—	—	—	—	—	—	—	—
44	3	—	3	—	—	—	—	—	—	—	—	—
43	4	—	4	—	—	—	—	—	—	—	—	—
42	1	—	1	—	—	—	—	—	—	—	—	—
40	2	—	2	—	—	—	—	—	—	—	—	—
39	1	—	1	—	—	—	—	—	—	—	—	—
38	1	—	1	—	—	—	—	—	—	—	—	—
36	1	—	1	—	—	—	—	—	—	—	—	—

Trips and Drafts of Vessels, 1999
(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 - continued
Inbound

Outbound

DOMESTIC

35	1	—	1	—	—	—	—	—	—	—	—	—
34	1	—	1	—	—	—	—	—	—	—	—	—
33	3	—	3	—	—	—	—	—	—	—	—	—
32	1	—	1	—	—	—	—	—	—	—	—	—
30	—	—	—	—	—	—	7	—	7	—	—	—
29	1	—	1	—	—	—	—	—	—	—	—	—
28	—	—	—	—	—	—	3	—	3	—	—	—
27	—	—	—	—	—	—	1	—	1	—	—	—
25	—	—	—	—	—	—	2	—	2	—	—	—
22	—	—	—	—	—	—	1	—	1	—	—	—
21	1	—	1	—	—	—	—	—	—	—	—	—
20	2	—	—	2	—	—	4	—	—	4	—	—
19	27	—	—	—	—	27	86	—	—	—	—	86
18	—	—	—	—	—	—	1	—	1	—	—	—
17	20	—	1	—	—	19	60	—	—	—	—	60
16	2	—	—	2	—	—	3	—	—	2	—	1
15	12	—	—	—	—	12	39	—	—	1	—	38
14	14	—	—	—	—	3	18	—	—	15	—	3
13	20	—	—	—	—	18	15	—	—	14	—	1
≤ 12	1,672	24	—	1,382	44	222	1,469	24	11	1,285	43	106
Total trips:											43	106
												3,749

HONOLULU HARBOR, OAHU, HI

Inbound

Outbound

Grand Total	7,666	2,308	53	2,776	2,116	413	7,593	2,274	66	2,774	2,074	405
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FOREIGN

Total	519	411	50	25	31	2	507	394	62	26	24	1
40	4	—	4	—	—	—	—	—	—	—	—	—
39	1	—	1	—	—	—	1	—	1	—	—	—
38	2	1	1	—	—	—	1	1	—	—	—	—
37	2	—	2	—	—	—	—	—	—	—	—	—
36	4	2	2	—	—	—	—	—	—	—	—	—
35	5	3	2	—	—	—	8	3	5	—	—	—
34	14	12	2	—	—	—	17	10	7	—	—	—
33	15	15	—	—	—	—	14	13	1	—	—	—
32	10	9	1	—	—	—	20	15	5	—	—	—
31	11	10	1	—	—	—	7	7	—	—	—	—
30	9	9	—	—	—	—	7	7	—	—	—	—
29	20	18	2	—	—	—	17	15	2	—	—	—
28	18	18	—	—	—	—	28	26	2	—	—	—
27	31	31	—	—	—	—	38	33	5	—	—	—
26	21	17	4	—	—	—	18	16	2	—	—	—
25	34	29	3	1	1	—	33	29	4	—	—	—
24	26	25	1	—	—	—	27	27	—	—	—	—
23	12	10	2	—	—	—	11	11	—	—	—	—
22	16	15	1	—	—	—	21	18	3	—	—	—
21	13	12	1	—	—	—	10	8	2	—	—	—
20	10	7	3	—	—	—	17	13	4	—	—	—
19	31	31	—	—	—	—	34	31	3	—	—	—
≤ 18	210	137	17	24	30	2	178	111	16	26	24	1

DOMESTIC

Total	7,147	1,897	3	2,751	2,085	411	7,086	1,880	4	2,748	2,050	404
37	—	—	—	—	—	—	1	—	1	—	—	—
36	13	13	—	—	—	—	—	—	—	—	—	—
35	31	31	—	—	—	—	—	—	—	—	—	—
34	29	29	—	—	—	—	2	2	—	—	—	—
33	23	23	—	—	—	—	5	3	2	—	—	—
32	30	30	—	—	—	—	4	3	1	—	—	—
31	22	22	—	—	—	—	15	15	—	—	—	—
30	80	80	—	—	—	—	73	73	—	—	—	—
29	14	14	—	—	—	—	32	32	—	—	—	—
28	8	8	—	—	—	—	35	35	—	—	—	—
27	37	37	—	—	—	—	62	62	—	—	—	—
26	3	2	1	—	—	—	37	37	—	—	—	—

Trips and Drafts of Vessels, 1999
(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 - continued
Inbound

Outbound

DOMESTIC

25	2	1	1	—	—	—	17	17	—	—	—	—
24	6	6	—	—	—	—	2	2	—	—	—	—
23	—	—	—	—	—	—	2	2	—	—	—	—
21	180	—	—	—	180	—	157	1	—	—	156	—
20	860	849	—	11	—	—	861	849	—	12	—	—
19	16	—	—	4	—	12	20	—	—	1	—	19
≤ 18	5,793	752	1	2,736	1,905	399	5,761	747	—	2,735	1,894	385
Total trips:											15,259	

NAWILIWILI HARBOR, KAUAI, HI

Inbound

Outbound

Grand Total	647	25	—	256	329	37	638	20	—	253	331	34
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FOREIGN

Total	21	21	—	—	—	—	16	16	—	—	—	—
27	7	7	—	—	—	—	6	6	—	—	—	—
26	5	5	—	—	—	—	4	4	—	—	—	—
25	3	3	—	—	—	—	3	3	—	—	—	—
24	3	3	—	—	—	—	3	3	—	—	—	—
≤ 18	3	3	—	—	—	—	—	—	—	—	—	—

DOMESTIC

Total	626	4	—	256	329	37	622	4	—	253	331	34
34	—	—	—	—	—	—	1	1	—	—	—	—
33	—	—	—	—	—	—	2	2	—	—	—	—
25	1	1	—	—	—	—	—	—	—	—	—	—
24	2	2	—	—	—	—	—	—	—	—	—	—
19	25	—	—	—	—	25	9	—	—	—	—	9
≤ 18	598	1	—	256	329	12	610	1	—	253	331	25
Total trips:											1,285	

HANA HARBOR, MAUI, HI
No Vessel Trips Reported

KAILUA HARBOR, OAHU, HI
No Vessel Trips Reported

KALAUPAPA HARBOR, MOLOKAI, HI
(15 feet and less)

Inbound

Outbound

Grand Total	20	—	—	1	19	—	20	—	—	1	19	—
Total trips:											40	

KAUNAKAKAI HARBOR, MOLOKAI, HI
(21 feet and less)

Inbound

Outbound

Grand Total	771	—	—	230	541	—	762	—	—	221	541	—
Total trips:											1,533	

Trips and Drafts of Vessels, 1999
(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 ALLEN HARBOR, KAUAI, HI (16 feet and less)												
				Inbound						Outbound		
Grand Total	1,040	986	—	49	5	—	1,077	1,016	—	57	4	—
										Total trips:		2,117
WAKE ISLAND HARBOR, WAKE ISLAND (17 feet and less)												
				Inbound						Outbound		
Grand Total	1	—	1	—	—	—	—	—	—	—	—	—
										Total trips:		1
WELLS HARBOR, MIDWAY ISLAND No Vessel Trips Reported												

Trips and Drafts of Vessels, 1999
(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	3,054	93	—	1,068	1,208	685	3,240	102	—	1,050	1,228	860
DOMESTIC												
Total	3,054	93	—	1,068	1,208	685	3,240	102	—	1,050	1,228	860
17	10	—	—	—	—	10	1	—	—	—	1	—
16	4	—	—	—	—	4	118	—	—	—	118	—
15	14	—	—	—	—	14	14	—	—	—	14	—
14	131	—	—	—	120	11	337	—	—	—	113	224
13	35	—	—	—	4	31	358	—	—	—	205	153
≤ 12	2,860	93	—	1,068	1,084	615	2,412	102	—	1,050	777	483
										Total trips:		6,294

SNAKE RIVER, OR, WA AND ID

	Upbound						Downbound					
Grand Total	3,348	559	—	1,275	821	693	3,671	568	—	1,067	1,304	732
DOMESTIC												
Total	3,348	559	—	1,275	821	693	3,671	568	—	1,067	1,304	732
17	10	—	—	—	—	10	1	—	—	—	1	—
16	4	—	—	—	—	4	96	—	—	—	96	—
15	14	—	—	—	—	14	8	—	—	—	8	—
14	43	—	—	—	32	11	297	—	—	—	109	188
13	49	—	—	—	4	45	452	—	—	—	316	136
12	65	—	—	6	27	32	230	—	—	7	182	41
11	192	44	—	95	—	53	200	44	—	76	71	9
10	671	6	—	590	56	19	409	6	—	330	69	4
9	236	—	—	213	1	22	326	—	—	271	53	2
8	295	60	—	185	—	50	237	64	—	154	18	1
7	105	20	—	20	—	65	82	25	—	23	33	1
6	52	—	—	19	1	32	31	—	—	17	13	1
5	204	—	—	147	—	57	208	—	—	189	19	—
4	94	—	—	—	12	82	203	—	—	—	25	178
3	702	—	—	—	509	193	407	—	—	—	239	168
2	599	416	—	—	179	4	471	416	—	—	52	3
1	13	13	—	—	—	—	13	13	—	—	—	—
										Total trips:		7,019

Trips and Drafts of Vessels, 1999
(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 ENTRANCE, OR AND WA
Upbound

Grand Total	2,759	1,715	225	409	266	144	2,669	1,711	219	390	243	106
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Downbound

FOREIGN

Total	1,930	1,694	91	72	56	17	1,943	1,691	96	82	66	8
42	1	1	—	—	—	—	—	—	—	—	—	—
40	4	4	—	—	—	—	54	47	7	—	—	—
39	2	1	1	—	—	—	30	28	2	—	—	—
38	10	9	1	—	—	—	43	39	4	—	—	—
37	17	12	5	—	—	—	43	41	2	—	—	—
36	15	12	3	—	—	—	84	76	5	2	1	—
35	36	26	10	—	—	—	97	96	1	—	—	—
34	39	33	6	—	—	—	141	137	4	—	—	—
33	45	42	3	—	—	—	105	105	—	—	—	—
32	66	63	3	—	—	—	194	192	2	—	—	—
31	68	59	9	—	—	—	62	59	3	—	—	—
30	54	47	7	—	—	—	85	78	7	—	—	—
29	103	98	4	1	—	—	77	70	2	5	—	—
28	100	91	9	—	—	—	88	86	2	—	—	—
27	105	97	7	1	—	—	93	87	5	1	—	—
26	117	113	3	—	—	1	126	120	6	—	—	—
25	116	109	7	—	—	—	108	100	8	—	—	—
24	96	91	5	—	—	—	83	80	3	—	—	—
23	119	117	2	—	—	—	75	69	6	—	—	—
22	156	150	3	—	—	3	45	42	3	—	—	—
21	125	123	1	—	—	—	44	34	9	—	—	1
20	155	126	1	1	26	1	42	31	10	1	—	—
19	109	101	—	4	1	3	21	17	—	4	—	—
≤ 18	272	169	1	65	29	8	203	57	5	69	65	7

DOMESTIC

Total	829	21	134	337	210	127	726	20	123	308	177	98
43	—	—	—	—	—	—	1	—	1	—	—	—
39	2	—	2	—	—	—	1	—	1	—	—	—
38	6	—	6	—	—	—	2	—	2	—	—	—
37	3	—	3	—	—	—	1	—	1	—	—	—
36	6	—	6	—	—	—	2	—	2	—	—	—
35	12	—	12	—	—	—	—	—	—	—	—	—
34	13	—	13	—	—	—	—	—	—	—	—	—
33	14	—	14	—	—	—	1	—	1	—	—	—
32	11	—	11	—	—	—	1	—	1	—	—	—
31	10	—	10	—	—	—	4	—	4	—	—	—
30	15	—	15	—	—	—	2	—	2	—	—	—
29	10	—	10	—	—	—	8	—	8	—	—	—
28	9	—	9	—	—	—	2	—	2	—	—	—
27	4	—	4	—	—	—	1	—	1	—	—	—
26	5	—	5	—	—	—	7	—	7	—	—	—
25	8	2	6	—	—	—	23	2	21	—	—	—
24	1	—	1	—	—	—	3	—	3	—	—	—
23	6	—	1	—	4	1	8	—	8	—	—	—
22	6	—	3	—	3	—	10	—	10	—	—	—
21	15	—	1	—	—	14	8	—	7	—	—	1
20	59	—	2	44	11	2	68	—	29	39	—	—
19	37	—	—	17	1	19	18	—	—	18	—	—
≤ 18	577	19	—	276	191	91	555	18	12	251	177	97

Total trips: 5,428

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY
Upbound

Grand Total	36,946	20,871	227	10,648	3,413	1,787	35,761	20,434	227	9,554	3,656	1,890
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Downbound

FOREIGN

Total	1,919	1,683	91	72	56	17	1,938	1,686	96	82	66	8
40	5	5	—	—	—	—	54	47	7	—	—	—
39	2	1	1	—	—	—	30	28	2	—	—	—
38	10	9	1	—	—	—	43	39	4	—	—	—
37	17	12	5	—	—	—	43	41	2	—	—	—

Trips and Drafts of Vessels, 1999
(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, MOUTH TO INTERNATIONAL BOUNDARY - continued

Upbound

Downbound

FOREIGN

36	15	12	3	—	—	—	84	76	5	2	1	—
35	36	26	10	—	—	—	97	96	1	—	—	—
34	39	33	6	—	—	—	141	137	4	—	—	—
33	45	42	3	—	—	—	105	105	—	—	—	—
32	66	63	3	—	—	—	194	192	2	—	—	—
31	68	59	9	—	—	—	62	59	3	—	—	—
30	54	47	7	—	—	—	85	78	7	—	—	—
29	103	98	4	1	—	—	77	70	2	5	—	—
28	100	91	9	—	—	—	88	86	2	—	—	—
27	105	97	7	1	—	—	93	87	5	1	—	—
26	117	113	3	—	—	1	126	120	6	—	—	—
25	116	109	7	—	—	—	108	100	8	—	—	—
24	96	91	5	—	—	—	83	80	3	—	—	—
23	119	117	2	—	—	—	75	69	6	—	—	—
22	156	150	3	—	—	3	45	42	3	—	—	—
21	125	123	1	—	—	1	44	34	9	—	—	1
20	155	126	1	1	26	1	42	31	10	1	—	—
19	109	101	—	4	1	3	21	17	—	4	—	—
18	86	84	—	2	—	—	23	17	5	1	—	—
17	28	27	—	—	1	—	3	3	—	—	—	—
16	25	13	—	10	2	—	11	—	—	11	—	—
15	33	6	—	26	—	1	26	2	—	23	—	1
14	18	4	—	5	7	2	17	3	—	—	14	—
13	7	—	—	3	2	2	2	—	—	1	—	1
12	16	10	—	3	2	1	17	10	—	5	1	1
11	17	5	—	1	11	—	18	1	—	3	14	—
10	5	3	—	—	1	1	6	1	—	1	3	1
9	7	2	—	4	1	—	15	3	—	11	1	—
8	15	3	1	10	1	—	17	3	—	13	1	—
7	1	1	—	—	—	—	—	—	—	—	—	—
6	1	—	—	1	—	—	1	—	—	—	1	—
4	1	—	—	—	—	1	4	—	—	—	1	3
3	1	—	—	—	1	—	38	9	—	—	29	—

DOMESTIC

Total	35,027	19,188	136	10,576	3,357	1,770	33,823	18,748	131	9,472	3,590	1,882
39	2	—	2	—	—	—	2	—	2	—	—	—
38	6	—	6	—	—	—	2	—	2	—	—	—
37	3	—	3	—	—	—	2	—	2	—	—	—
36	6	—	6	—	—	—	3	—	3	—	—	—
35	12	—	12	—	—	—	—	—	—	—	—	—
34	13	—	13	—	—	—	—	—	—	—	—	—
33	14	—	14	—	—	—	1	—	1	—	—	—
32	11	—	11	—	—	—	1	—	1	—	—	—
31	10	—	10	—	—	—	5	—	5	—	—	—
30	16	—	16	—	—	—	3	—	3	—	—	—
29	11	—	11	—	—	—	8	—	8	—	—	—
28	9	—	9	—	—	—	3	—	3	—	—	—
27	4	—	4	—	—	—	2	—	2	—	—	—
26	5	—	5	—	—	—	7	—	7	—	—	—
25	8	2	6	—	—	—	24	2	22	—	—	—
24	1	—	1	—	—	—	3	—	3	—	—	—
23	6	—	1	—	4	1	9	—	8	—	—	1
22	6	—	3	—	3	—	10	—	10	—	—	—
21	15	—	1	—	—	14	8	—	7	—	—	1
20	64	—	2	49	11	2	70	—	30	40	—	—
19	43	—	—	23	1	19	22	—	—	22	—	—
18	8	—	—	2	—	6	11	—	1	2	—	8
17	28	—	—	6	—	22	18	—	—	5	9	4
16	53	—	—	34	1	18	175	—	1	29	131	14
15	76	—	—	48	1	27	67	—	—	45	21	1
14	124	—	—	42	60	22	519	—	—	54	191	274
13	162	—	—	96	15	51	735	—	—	81	469	185
12	809	—	—	666	75	68	1,165	—	—	661	284	220
11	520	109	—	188	144	79	645	49	—	164	416	16
10	2,392	8	—	2,045	296	43	2,215	8	—	1,878	310	19
9	2,835	1	—	2,558	215	61	2,059	1	—	1,890	149	19
8	1,099	28	—	917	70	84	922	32	10	798	59	23
7	2,461	25	—	2,279	26	131	2,572	29	—	2,448	72	23
6	13,063	12,026	—	849	59	129	12,783	12,026	—	670	58	29
5	1,445	706	—	551	8	180	921	318	—	484	68	51

Trips and Drafts of Vessels, 1999
(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, MOUTH TO INTERNATIONAL BOUNDARY - continued												
	Upbound						Downbound					
DOMESTIC												
4	591	—	—	177	268	146	702	—	—	174	261	267
3	7,831	6,282	—	46	1,131	372	7,332	6,282	—	27	684	339
2	1,259	1	—	—	963	295	794	1	—	—	405	388
1	6	—	—	—	6	—	3	—	—	—	3	—
	Total trips:										72,707	

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

Grand Total	Upbound						Downbound					
	30,009	9,013	258	14,099	4,247	2,392	29,488	8,334	224	14,024	4,643	2,263
FOREIGN												
Total	1,919	1,683	91	72	56	17	1,938	1,686	96	82	66	8
42	1	1	—	—	—	—	—	—	—	—	—	—
40	4	4	—	—	—	—	54	47	7	—	—	—
39	2	1	1	—	—	—	30	28	2	—	—	—
38	10	9	1	—	—	—	43	39	4	—	—	—
37	17	12	5	—	—	—	43	41	2	—	—	—
36	15	12	3	—	—	—	84	76	5	2	1	—
35	36	26	10	—	—	—	97	96	1	—	—	—
34	39	33	6	—	—	—	141	137	4	—	—	—
33	45	42	3	—	—	—	105	105	—	—	—	—
32	66	63	3	—	—	—	194	192	2	—	—	—
31	68	59	9	—	—	—	62	59	3	—	—	—
30	54	47	7	—	—	—	85	78	7	—	—	—
29	103	98	4	1	—	—	77	70	2	5	—	—
28	100	91	9	—	—	—	88	86	2	—	—	—
27	105	97	7	1	—	—	93	87	5	1	—	—
26	117	113	3	—	—	1	126	120	6	—	—	—
25	116	109	7	—	—	—	108	100	8	—	—	—
24	96	91	5	—	—	—	83	80	3	—	—	—
23	119	117	2	—	—	—	75	69	6	—	—	—
22	156	150	3	—	—	—	45	42	3	—	—	—
21	125	123	1	—	—	—	44	34	9	—	—	1
20	155	126	1	1	26	1	42	31	10	1	—	—
19	109	101	—	4	1	3	21	17	—	4	—	—
≤ 18	261	158	1	65	29	8	198	52	5	69	65	7
DOMESTIC												
Total	28,090	7,330	167	14,027	4,191	2,375	27,550	6,648	128	13,942	4,577	2,255
43	—	—	—	—	—	—	1	—	1	—	—	—
39	2	—	2	—	—	—	1	—	1	—	—	—
38	8	—	8	—	—	—	2	—	2	—	—	—
37	4	—	4	—	—	—	1	—	1	—	—	—
36	7	—	7	—	—	—	3	—	3	—	—	—
35	12	—	12	—	—	—	—	—	—	—	—	—
34	15	—	15	—	—	—	—	—	—	—	—	—
33	14	—	14	—	—	—	1	—	1	—	—	—
32	13	—	13	—	—	—	1	—	1	—	—	—
31	11	—	11	—	—	—	5	—	5	—	—	—
30	17	—	17	—	—	—	3	—	3	—	—	—
29	14	—	14	—	—	—	8	—	8	—	—	—
28	10	—	10	—	—	—	3	—	3	—	—	—
27	6	—	6	—	—	—	1	—	1	—	—	—
26	8	—	8	—	—	—	7	—	7	—	—	—
25	12	2	10	—	—	—	24	2	22	—	—	—
24	1	—	1	—	—	—	3	—	3	—	—	—
23	9	—	3	—	4	2	8	—	8	—	—	—
22	9	—	6	—	3	—	10	—	10	—	—	—
21	17	—	3	—	—	14	8	—	7	—	—	1
20	73	—	3	57	11	2	69	—	29	40	—	—
19	46	—	—	25	1	20	21	—	—	21	—	—
≤ 18	27,782	7,328	—	13,945	4,172	2,337	27,370	6,646	12	13,881	4,577	2,254
	Total trips:										59,497	

Trips and Drafts of Vessels, 1999
(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

	Inbound						Outbound					
Grand Total	429	60	5	281	31	52	416	48	1	291	29	47

FOREIGN

Total	70	27	5	38	—	—	68	23	1	44	—	—
40	—	—	—	—	—	—	1	1	—	—	—	—
38	—	—	—	—	—	—	2	2	—	—	—	—
36	—	—	—	—	—	—	1	1	—	—	—	—
34	—	—	—	—	—	—	1	1	—	—	—	—
33	1	—	1	—	—	—	—	—	—	—	—	—
31	1	—	1	—	—	—	—	—	—	—	—	—
29	3	1	1	1	—	—	5	—	—	5	—	—
28	1	—	1	—	—	—	1	1	—	—	—	—
27	1	—	—	1	—	—	2	—	1	1	—	—
25	2	1	1	—	—	—	—	—	—	—	—	—
24	1	1	—	—	—	—	1	1	—	—	—	—
23	3	3	—	—	—	—	2	2	—	—	—	—
22	2	2	—	—	—	—	2	2	—	—	—	—
20	1	—	—	1	—	—	1	—	—	1	—	—
19	3	—	—	3	—	—	4	—	—	4	—	—
≤ 18	51	19	—	32	—	—	45	12	—	33	—	—

DOMESTIC

Total	359	33	—	243	31	52	348	25	—	247	29	47
20	7	—	—	7	—	—	12	—	—	12	—	—
19	7	—	—	7	—	—	7	—	—	7	—	—
≤ 18	345	33	—	229	31	52	329	25	—	228	29	47
										Total trips:		845

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

	Inbound						Outbound					
Grand Total	2,034	3	—	1,827	162	42	1,910	3	—	1,761	120	26

FOREIGN

Total	22	—	—	9	13	—	41	—	—	20	21	—
≤ 18	22	—	—	9	13	—	41	—	—	20	21	—

DOMESTIC

Total	2,012	3	—	1,818	149	42	1,869	3	—	1,741	99	26
≤ 18	2,012	3	—	1,818	149	42	1,869	3	—	1,741	99	26
										Total trips:		3,944

PORT OF LONGVIEW, WA

	Inbound						Outbound					
Grand Total	1,860	146	—	1,176	448	90	1,796	151	—	1,195	363	87

FOREIGN

Total	146	146	—	—	—	—	151	151	—	—	—	—
40	1	1	—	—	—	—	1	1	—	—	—	—
39	—	—	—	—	—	—	2	2	—	—	—	—
38	2	2	—	—	—	—	—	—	—	—	—	—
37	1	1	—	—	—	—	4	4	—	—	—	—
36	—	—	—	—	—	—	5	5	—	—	—	—
35	2	2	—	—	—	—	4	4	—	—	—	—
34	3	3	—	—	—	—	14	14	—	—	—	—
33	4	4	—	—	—	—	2	2	—	—	—	—
32	3	3	—	—	—	—	38	38	—	—	—	—
31	3	3	—	—	—	—	5	5	—	—	—	—
30	5	5	—	—	—	—	10	10	—	—	—	—
29	3	3	—	—	—	—	7	7	—	—	—	—
28	9	9	—	—	—	—	12	12	—	—	—	—

Trips and Drafts of Vessels, 1999
(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 LONGVIEW, WA - continued												
	Inbound						Outbound					
FOREIGN												
27	4	4	—	—	—	—	2	2	—	—	—	—
26	7	7	—	—	—	—	8	8	—	—	—	—
25	10	10	—	—	—	—	5	5	—	—	—	—
24	7	7	—	—	—	—	9	9	—	—	—	—
23	14	14	—	—	—	—	8	8	—	—	—	—
22	15	15	—	—	—	—	6	6	—	—	—	—
21	16	16	—	—	—	—	3	3	—	—	—	—
20	13	13	—	—	—	—	3	3	—	—	—	—
19	10	10	—	—	—	—	2	2	—	—	—	—
18	12	12	—	—	—	—	1	1	—	—	—	—
17	2	2	—	—	—	—	—	—	—	—	—	—
DOMESTIC												
Total	1,714	—	—	1,176	448	90	1,645	—	—	1,195	363	87
20	1	—	—	1	—	—	3	—	—	3	—	—
19	5	—	—	5	—	—	5	—	—	5	—	—
18	1	—	—	—	—	1	—	—	—	—	—	—
17	—	—	—	—	—	—	3	—	—	—	3	—
16	13	—	—	2	10	1	4	—	—	2	1	1
15	3	—	—	3	—	—	2	—	—	2	—	—
14	31	—	—	9	18	4	31	—	—	13	18	—
13	33	—	—	17	16	—	7	—	—	7	—	—
≤ 12	1,627	—	—	1,139	404	84	1,590	—	—	1,163	341	86
										Total trips:		3,656
PORT OF KALAMA, WA												
	Inbound						Outbound					
Grand Total	1,253	118	19	869	176	71	1,243	114	21	866	174	68
FOREIGN												
Total	125	118	5	1	1	—	123	114	9	—	—	—
40	—	—	—	—	—	—	32	31	1	—	—	—
39	—	—	—	—	—	—	13	12	1	—	—	—
38	—	—	—	—	—	—	16	14	2	—	—	—
37	1	1	—	—	—	—	6	6	—	—	—	—
36	—	—	—	—	—	—	6	6	—	—	—	—
35	1	1	—	—	—	—	6	6	—	—	—	—
34	—	—	—	—	—	—	8	8	—	—	—	—
33	3	2	1	—	—	—	8	8	—	—	—	—
32	5	3	2	—	—	—	8	8	—	—	—	—
31	2	1	1	—	—	—	1	1	—	—	—	—
30	3	3	—	—	—	—	1	1	—	—	—	—
29	4	4	—	—	—	—	3	2	1	—	—	—
28	3	3	—	—	—	—	4	3	1	—	—	—
27	3	2	1	—	—	—	2	1	1	—	—	—
26	3	3	—	—	—	—	—	—	—	—	—	—
25	10	10	—	—	—	—	1	—	1	—	—	—
24	11	11	—	—	—	—	—	—	—	—	—	—
23	23	23	—	—	—	—	4	3	1	—	—	—
22	15	15	—	—	—	—	2	2	—	—	—	—
21	15	15	—	—	—	—	2	2	—	—	—	—
20	12	12	—	—	—	—	—	—	—	—	—	—
19	5	5	—	—	—	—	—	—	—	—	—	—
≤ 18	6	4	—	1	1	—	—	—	—	—	—	—
DOMESTIC												
Total	1,128	—	14	868	175	71	1,120	—	12	866	174	68
43	—	—	—	—	—	—	1	—	1	—	—	—
39	1	—	1	—	—	—	—	—	—	—	—	—
38	—	—	—	—	—	—	2	—	2	—	—	—
37	—	—	—	—	—	—	1	—	1	—	—	—
36	1	—	1	—	—	—	—	—	—	—	—	—
31	1	—	1	—	—	—	—	—	—	—	—	—
30	3	—	3	—	—	—	1	—	1	—	—	—
29	2	—	2	—	—	—	2	—	2	—	—	—

Trips and Drafts of Vessels, 1999
(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 - continued

	Inbound						Outbound					
DOMESTIC												
28	1	—	1	—	—	—	1	—	1	—	—	—
27	1	—	1	—	—	—	1	—	1	—	—	—
26	1	—	1	—	—	—	—	—	—	—	—	—
25	1	—	1	—	—	—	—	—	—	—	—	—
24	—	—	—	—	—	—	1	—	1	—	—	—
23	1	—	1	—	—	—	1	—	1	—	—	—
22	1	—	1	—	—	—	1	—	1	—	—	—
20	1	—	—	1	—	—	1	—	—	1	—	—
≤ 18	1,113	—	—	867	175	71	1,107	—	—	865	174	68
										Total trips:		2,496

MULTNOMAH CHANNEL, OR

	Upbound						Downbound					
Grand Total	922	—	—	475	446	1	923	—	—	448	451	24
DOMESTIC												
Total	922	—	—	475	446	1	923	—	—	448	451	24
14	—	—	—	—	—	—	1	—	—	—	1	—
13	4	—	—	4	—	—	4	—	—	3	1	—
12	2	—	—	2	—	—	4	—	—	4	—	—
10	156	—	—	6	150	—	13	—	—	3	10	—
9	335	—	—	142	193	—	152	—	—	142	10	—
8	78	—	—	16	62	—	30	—	—	18	2	10
7	148	—	—	145	3	—	146	—	—	145	1	—
6	18	—	—	14	4	—	15	—	—	11	4	—
5	144	—	—	144	—	—	116	—	—	115	1	—
4	9	—	—	—	9	—	167	—	—	3	164	—
3	22	—	—	2	20	—	258	—	—	4	254	—
2	6	—	—	—	5	1	17	—	—	—	3	14
										Total trips:		1,845

OREGON SLOUGH (NORTH PORTLAND HARBOR), OR

	Upbound						Downbound					
Grand Total	2,959	418	10	1,596	775	160	2,736	424	4	1,461	713	134
FOREIGN												
Total	436	418	10	4	—	4	431	424	4	1	2	—
39	1	—	1	—	—	—	1	1	—	—	—	—
38	1	—	1	—	—	—	1	—	1	—	—	—
37	1	—	1	—	—	—	2	2	—	—	—	—
36	6	6	—	—	—	—	14	14	—	—	—	—
35	7	5	2	—	—	—	12	12	—	—	—	—
34	16	16	—	—	—	—	26	26	—	—	—	—
33	23	23	—	—	—	—	16	16	—	—	—	—
32	37	37	—	—	—	—	37	37	—	—	—	—
31	35	34	1	—	—	—	30	30	—	—	—	—
30	15	15	—	—	—	—	20	19	1	—	—	—
29	31	31	—	—	—	—	21	21	—	—	—	—
28	38	37	1	—	—	—	35	34	1	—	—	—
27	44	44	—	—	—	—	41	41	—	—	—	—
26	45	43	2	—	—	—	45	45	—	—	—	—
25	43	42	1	—	—	—	41	41	—	—	—	—
24	28	28	—	—	—	—	37	37	—	—	—	—
23	24	24	—	—	—	—	24	23	1	—	—	—
22	20	18	—	—	—	2	9	9	—	—	—	—
21	6	6	—	—	—	—	6	6	—	—	—	—
20	2	2	—	—	—	—	4	4	—	—	—	—
19	2	—	—	—	—	2	—	—	—	—	—	—
18	3	3	—	—	—	—	2	2	—	—	—	—
15	2	—	—	2	—	—	—	—	—	—	—	—
14	3	1	—	2	—	—	1	1	—	—	—	—
12	1	1	—	—	—	—	2	2	—	—	—	—

Trips and Drafts of Vessels, 1999
(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

OREGON SLOUGH (NORTH PORTLAND HARBOR), OR - continued

	Upbound						Downbound					
FOREIGN												
11	1	1	—	—	—	—	—	—	—	—	—	—
10	—	—	—	—	—	—	1	—	—	—	1	—
9	—	—	—	—	—	—	1	—	—	1	—	—
8	1	1	—	—	—	—	1	1	—	—	—	—
3	—	—	—	—	—	—	1	—	—	—	1	—
DOMESTIC												
Total	2,523	—	—	1,592	775	156	2,305	—	—	1,460	711	134
14	25	—	—	—	25	—	24	—	—	—	24	—
13	1	—	—	—	1	—	3	—	—	—	3	—
12	171	—	—	169	2	—	209	—	—	174	35	—
11	9	—	—	9	—	—	11	—	—	11	—	—
10	559	—	—	466	86	7	486	—	—	380	91	15
9	514	—	—	466	40	8	486	—	—	455	—	31
8	219	—	—	182	30	7	152	—	—	148	4	—
7	199	—	—	118	69	12	120	—	—	118	2	—
6	165	—	—	98	55	12	99	—	—	98	1	—
5	66	—	—	24	35	7	40	—	—	20	19	1
4	109	—	—	58	37	14	245	—	—	54	190	1
3	320	—	—	2	301	17	285	—	—	2	261	22
2	166	—	—	—	94	72	145	—	—	—	81	64
Total trips:											5,695	

PORT OF VANCOUVER, WA

	Inbound						Outbound					
Grand Total	4,358	371	19	2,984	486	498	4,270	375	21	3,090	356	428
FOREIGN												
Total	297	282	15	—	—	—	308	287	17	2	1	1
40	1	1	—	—	—	—	4	3	1	—	—	—
39	—	—	—	—	—	—	5	4	1	—	—	—
38	1	1	—	—	—	—	9	8	1	—	—	—
37	4	4	—	—	—	—	9	9	—	—	—	—
36	3	3	—	—	—	—	15	13	—	1	1	—
35	10	10	—	—	—	—	23	23	—	—	—	—
34	3	3	—	—	—	—	29	29	—	—	—	—
33	5	4	1	—	—	—	26	26	—	—	—	—
32	6	5	1	—	—	—	21	20	1	—	—	—
31	7	7	—	—	—	—	9	9	—	—	—	—
30	11	11	—	—	—	—	19	19	—	—	—	—
29	14	13	1	—	—	—	8	8	—	—	—	—
28	12	9	3	—	—	—	8	8	—	—	—	—
27	18	15	3	—	—	—	16	14	2	—	—	—
26	28	27	1	—	—	—	24	23	1	—	—	—
25	17	17	—	—	—	—	21	17	4	—	—	—
24	18	18	—	—	—	—	16	14	2	—	—	—
23	16	15	1	—	—	—	10	10	—	—	—	—
22	32	30	2	—	—	—	11	11	—	—	—	—
21	27	26	1	—	—	—	6	5	1	—	—	—
20	17	16	1	—	—	—	8	6	2	—	—	—
19	27	27	—	—	—	—	4	4	—	—	—	—
≤ 18	20	20	—	—	—	—	7	4	1	1	—	1
DOMESTIC												
Total	4,061	89	4	2,984	486	498	3,962	88	4	3,088	355	427
37	1	—	1	—	—	—	1	—	1	—	—	—
32	1	—	1	—	—	—	—	—	—	—	—	—
30	1	—	1	—	—	—	1	—	1	—	—	—
27	—	—	—	—	—	—	1	—	1	—	—	—
26	—	—	—	—	—	—	1	—	1	—	—	—
25	3	2	1	—	—	—	2	2	—	—	—	—
23	1	—	—	—	—	1	1	—	—	—	—	1
19	2	—	—	2	—	—	2	—	—	2	—	—
≤ 18	4,052	87	—	2,982	486	497	3,953	86	—	3,086	355	426
Total trips:											8,628	

Trips and Drafts of Vessels, 1999
(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 BETWEEN VANCOUVER, WA AND THE DALLES, OR

	Upbound						Downbound					
Grand Total	4,939	931	1	1,498	1,617	892	5,462	555	1	1,517	2,274	1,115

DOMESTIC

Total	4,939	931	1	1,498	1,617	892	5,462	555	1	1,517	2,274	1,115
20	1	—	1	—	—	—	1	—	1	—	—	—
17	11	—	—	—	—	11	1	—	—	—	1	—
16	5	—	—	—	—	5	130	—	—	—	130	—
15	20	—	—	—	—	20	17	—	—	—	17	—
14	32	—	—	—	17	15	395	—	—	—	130	265
13	34	—	—	—	4	30	634	—	—	—	467	167
12	204	—	—	104	36	64	563	—	—	83	265	215
11	224	44	—	116	3	61	318	44	—	108	153	13
10	355	6	—	187	125	37	507	6	—	181	306	14
9	175	—	—	108	16	51	270	—	—	116	146	8
8	387	22	—	301	6	58	352	26	—	272	53	1
7	462	20	—	356	3	83	497	25	—	403	67	2
≤ 6	3,029	839	—	326	1,407	457	1,777	454	—	354	539	430
										Total trips:		10,401

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

	Upbound						Downbound					
Grand Total	3,777	92	—	962	1,723	1,000	3,842	101	—	965	1,712	1,064

DOMESTIC

Total	3,777	92	—	962	1,723	1,000	3,842	101	—	965	1,712	1,064
17	11	—	—	—	—	11	1	—	—	—	1	—
16	5	—	—	—	—	5	128	—	—	—	128	—
15	20	—	—	—	—	20	16	—	—	—	16	—
14	36	—	—	—	21	15	394	—	—	—	134	260
13	47	—	—	—	4	43	418	—	—	—	305	113
12	140	—	—	39	36	65	367	—	—	37	126	204
11	224	44	—	117	2	61	315	44	—	106	151	14
10	315	6	—	168	104	37	387	6	—	161	208	12
9	138	—	—	85	2	51	140	—	—	73	59	8
8	361	22	—	277	4	58	326	26	—	248	50	2
7	145	20	—	40	2	83	131	25	—	46	58	2
6	157	—	—	15	61	81	46	—	—	19	20	7
5	456	—	—	221	126	109	314	—	—	275	34	5
4	418	—	—	—	304	114	240	—	—	—	34	206
3	929	—	—	—	711	218	480	—	—	—	290	190
2	375	—	—	—	346	29	139	—	—	—	98	41
										Total trips:		7,619

PORT OF PORTLAND, OR

	Inbound						Outbound					
Grand Total	17,302	1,637	202	10,535	2,941	1,987	17,263	1,637	200	10,505	3,050	1,871

FOREIGN

Total	1,145	1,012	65	17	34	17	1,143	1,016	68	15	37	7
42	1	1	—	—	—	—	15	10	5	—	—	—
40	1	1	—	—	—	—	9	9	—	—	—	—
39	1	—	1	—	—	—	13	12	1	—	—	—
38	1	—	1	—	—	—	20	18	2	—	—	—
37	8	3	5	—	—	—	53	47	5	1	—	—
36	11	8	3	—	—	—	58	57	1	—	—	—
35	23	13	10	—	—	—	80	76	4	—	—	—
34	32	27	5	—	—	—	55	55	—	—	—	—
33	32	32	—	—	—	—	107	107	—	—	—	—
32	52	52	—	—	—	—	46	43	3	—	—	—
31	55	48	7	—	—	—	44	37	7	—	—	—
30	35	28	7	—	—	—	51	50	1	—	—	—
29	77	75	2	—	—	—						

Trips and Drafts of Vessels, 1999
(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 PORTLAND, OR - continued

	Inbound						Outbound					
FOREIGN												
28	73	68	5	—	—	—	62	61	1	—	—	—
27	72	69	3	—	—	—	70	69	1	—	—	—
26	73	70	2	—	—	1	90	85	5	—	—	—
25	74	68	6	—	—	—	79	76	3	—	—	—
24	52	47	5	—	—	—	55	54	1	—	—	—
23	60	59	1	—	—	—	48	43	5	—	—	—
22	85	81	1	—	—	3	23	20	3	—	—	—
21	60	59	—	—	—	1	31	22	8	—	—	1
20	98	71	—	—	26	1	29	21	8	—	—	—
19	53	49	—	—	1	3	10	10	—	—	—	—
≤ 18	116	83	1	17	7	8	95	34	4	14	37	6
DOMESTIC												
Total	16,157	625	137	10,518	2,907	1,970	16,120	621	132	10,490	3,013	1,864
39	1	—	1	—	—	—	3	—	3	—	—	—
38	7	—	7	—	—	—	3	—	3	—	—	—
37	3	—	3	—	—	—	1	—	1	—	—	—
36	6	—	6	—	—	—	5	—	5	—	—	—
35	14	—	14	—	—	—	—	—	—	—	—	—
34	14	—	14	—	—	—	1	—	1	—	—	—
33	14	—	14	—	—	—	1	—	1	—	—	—
32	12	—	12	—	—	—	3	—	3	—	—	—
31	11	—	11	—	—	—	6	—	6	—	—	—
30	17	—	17	—	—	—	3	—	3	—	—	—
29	8	—	8	—	—	—	9	—	9	—	—	—
28	6	—	6	—	—	—	2	—	2	—	—	—
27	4	—	4	—	—	—	1	—	1	—	—	—
26	7	—	7	—	—	—	7	—	7	—	—	—
25	9	—	9	—	—	—	24	—	24	—	—	—
24	—	—	—	—	—	—	1	—	1	—	—	—
23	6	—	1	—	4	1	10	—	10	—	—	—
22	4	—	1	—	3	—	5	—	5	—	—	—
21	17	—	2	—	—	15	8	—	7	—	—	1
20	55	—	—	43	11	1	60	—	29	31	—	—
19	32	—	—	11	1	20	13	—	—	13	—	—
≤ 18	15,910	625	—	10,464	2,888	1,933	15,954	621	11	10,446	3,013	1,863
										Total trips:		34,565

WILLAMETTE RIVER ABOVE PORTLAND AND YAMHILL RIVER, OR

	Upbound						Downbound					
Grand Total	3,963	328	—	2,202	1,433	—	3,914	268	—	2,201	1,445	—
DOMESTIC												
Total	3,963	328	—	2,202	1,433	—	3,914	268	—	2,201	1,445	—
10	3	—	—	3	—	—	14	—	—	3	11	—
9	16	—	—	16	—	—	17	—	—	14	3	—
8	13	—	—	8	5	—	29	—	—	9	20	—
7	736	—	—	736	—	—	850	95	—	739	16	—
6	1,148	52	—	1,096	—	—	1,189	52	—	1,096	41	—
5	417	276	—	5	136	—	318	121	—	2	195	—
4	386	—	—	335	51	—	1,107	—	—	335	772	—
3	7	—	—	3	4	—	259	—	—	3	256	—
2	1,237	—	—	—	1,237	—	131	—	—	—	131	—
										Total trips:		7,877

Trips and Drafts of Vessels, 1999
(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

COOS BAY, OR

	Inbound						Outbound					
Grand Total	1,586	92	—	1,125	356	13	1,578	91	—	1,101	379	7

FOREIGN

Total	124	92	—	10	22	—	122	91	—	11	20	—
36	—	—	—	—	—	—	1	1	—	—	—	—
35	—	—	—	—	—	—	4	4	—	—	—	—
34	—	—	—	—	—	—	15	15	—	—	—	—
33	2	2	—	—	—	—	19	19	—	—	—	—
32	—	—	—	—	—	—	9	9	—	—	—	—
31	—	—	—	—	—	—	3	3	—	—	—	—
30	—	—	—	—	—	—	2	2	—	—	—	—
29	4	4	—	—	—	—	5	5	—	—	—	—
28	9	9	—	—	—	—	6	6	—	—	—	—
27	11	11	—	—	—	—	7	7	—	—	—	—
26	13	13	—	—	—	—	5	5	—	—	—	—
25	14	14	—	—	—	—	1	1	—	—	—	—
24	12	12	—	—	—	—	4	4	—	—	—	—
23	7	7	—	—	—	—	3	3	—	—	—	—
22	6	6	—	—	—	—	4	4	—	—	—	—
21	1	1	—	—	—	—	—	—	—	—	—	—
20	5	3	—	2	—	—	3	—	—	2	1	—
19	7	5	—	2	—	—	3	2	—	1	—	—
18	5	2	—	1	2	—	1	—	—	1	—	—
17	3	2	—	—	1	—	3	—	—	1	2	—
16	2	—	—	—	2	—	2	—	—	2	—	—
15	11	—	—	3	8	—	8	—	—	1	7	—
14	4	—	—	—	4	—	2	—	—	—	2	—
13	2	—	—	2	—	—	3	—	—	3	—	—
≤ 12	6	1	—	—	5	—	9	1	—	—	8	—

DOMESTIC

Total	1,462	—	—	1,115	334	13	1,456	—	—	1,090	359	7
20	14	—	—	14	—	—	9	—	—	9	—	—
19	9	—	—	9	—	—	14	—	—	14	—	—
18	3	—	—	3	—	—	1	—	—	1	—	—
17	—	—	—	—	—	—	1	—	—	—	1	—
16	18	—	—	18	—	—	28	—	—	23	5	—
15	22	—	—	22	—	—	25	—	—	16	9	—
14	84	—	—	45	38	1	80	—	—	32	47	1
13	22	—	—	21	1	—	22	—	—	15	7	—
≤ 12	1,290	—	—	983	295	12	1,276	—	—	980	290	6
										Total trips:		3,164

COLUMBIA RIVER SYSTEM

	Upbound						Downbound					
Grand Total	33,665	9,962	258	15,810	5,139	2,496	32,707	9,682	224	15,343	5,092	2,366

FOREIGN

Total	1,930	1,694	91	72	56	17	1,943	1,691	96	82	66	8
42	1	1	—	—	—	—	—	—	—	—	—	—
40	4	4	—	—	—	—	54	47	7	—	—	—
39	2	1	1	—	—	—	30	28	2	—	—	—
38	10	9	1	—	—	—	43	39	4	—	—	—
37	17	12	5	—	—	—	43	41	2	—	—	—
36	15	12	3	—	—	—	84	76	5	2	1	—
35	36	26	10	—	—	—	97	96	1	—	—	—
34	39	33	6	—	—	—	141	137	4	—	—	—
33	45	42	3	—	—	—	105	105	—	—	—	—
32	66	63	3	—	—	—	194	192	2	—	—	—
31	68	59	9	—	—	—	62	59	3	—	—	—
30	54	47	7	—	—	—	85	78	7	—	—	—
29	103	98	4	1	—	—	77	70	2	5	—	—
28	100	91	9	—	—	—	88	86	2	—	—	—
27	105	97	7	1	—	—	93	87	5	1	—	—
26	117	113	3	—	—	1	126	120	6	—	—	—
25	116	109	7	—	—	—	108	100	8	—	—	—
24	96	91	5	—	—	—	83	80	3	—	—	—
23	119	117	2	—	—	—	75	69	6	—	—	—
22	156	150	3	—	—	3	45	42	3	—	—	—
21	125	123	1	—	—	1	44	34	9	—	—	1

Trips and Drafts of Vessels, 1999
(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					
FOREIGN												
20	155	126	1	1	26	1	42	31	10	1	—	—
19	109	101	—	4	1	3	21	17	—	4	—	—
18	86	84	—	2	—	—	23	17	5	1	—	—
17	28	27	—	—	1	—	3	3	—	—	—	—
16	25	13	—	10	2	—	11	—	—	11	—	—
15	33	6	—	26	—	1	26	2	—	23	—	1
14	18	4	—	5	7	2	17	3	—	—	14	—
13	7	—	—	3	2	2	2	—	—	1	—	1
12	16	10	—	3	2	1	17	10	—	5	1	1
11	17	5	—	1	11	—	18	1	—	3	14	—
10	6	4	—	—	1	1	7	2	—	1	3	1
9	13	8	—	4	1	—	16	4	—	11	1	—
8	19	7	1	10	1	—	20	6	—	13	1	—
7	1	1	—	—	—	—	—	—	—	—	—	—
6	1	—	—	1	—	—	1	—	—	—	1	—
4	1	—	—	—	—	1	4	—	—	—	1	3
3	1	—	—	—	1	—	38	9	—	—	29	—
DOMESTIC												
Total	31,735	8,268	167	15,738	5,083	2,479	30,764	7,991	128	15,261	5,026	2,358
43	—	—	—	—	—	—	1	—	1	—	—	—
39	2	—	2	—	—	—	3	—	3	—	—	—
38	8	—	8	—	—	—	4	—	4	—	—	—
37	4	—	4	—	—	—	2	—	2	—	—	—
36	7	—	7	—	—	—	4	—	4	—	—	—
35	14	—	14	—	—	—	—	—	—	—	—	—
34	15	—	15	—	—	—	—	—	—	—	—	—
33	14	—	14	—	—	—	1	—	1	—	—	—
32	14	—	14	—	—	—	2	—	2	—	—	—
31	12	—	12	—	—	—	5	—	5	—	—	—
30	19	—	19	—	—	—	4	—	4	—	—	—
29	12	—	12	—	—	—	8	—	8	—	—	—
28	7	—	7	—	—	—	2	—	2	—	—	—
27	6	—	6	—	—	—	1	—	1	—	—	—
26	9	—	9	—	—	—	7	—	7	—	—	—
25	14	2	12	—	—	—	24	2	22	—	—	—
24	—	—	—	—	—	—	2	—	2	—	—	—
23	9	—	3	—	4	2	10	—	10	—	—	—
22	7	—	4	—	3	—	4	—	4	—	—	—
21	18	—	3	—	—	15	7	—	6	—	—	1
20	72	—	2	57	11	2	69	—	29	40	—	—
19	46	—	—	25	1	20	21	—	21	—	—	—
18	10	—	—	2	—	8	13	—	1	2	—	10
17	37	—	—	6	—	31	16	—	5	9	2	2
16	134	—	—	35	80	19	97	—	1	29	53	14
15	89	—	—	52	11	26	58	—	—	44	13	1
14	389	—	—	44	159	186	281	—	—	52	119	110
13	531	—	—	112	269	150	445	—	—	79	215	151
12	1,421	—	—	1,110	190	121	1,450	—	—	1,109	171	170
11	724	109	—	222	344	49	537	49	—	222	217	49
10	3,706	14	—	3,255	402	35	3,497	2	—	3,255	205	35
9	3,653	1	—	3,342	265	45	3,487	1	—	3,342	99	45
8	1,408	97	—	1,128	117	66	1,295	56	9	1,127	37	66
7	3,382	148	—	3,054	86	94	3,272	112	—	3,054	12	94
6	2,269	323	—	1,768	84	94	2,095	197	—	1,769	34	95
5	1,966	862	—	793	176	135	2,747	862	—	435	1,316	134
4	1,355	—	—	661	367	327	2,038	—	—	670	1,041	327
3	8,044	6,282	—	72	1,192	498	7,978	6,282	—	6	1,192	498
2	2,289	417	—	—	1,316	556	1,261	415	—	—	290	556
1	19	13	—	—	6	—	16	13	—	—	3	—
										Total trips:		66,372

Trips and Drafts of Vessels, 1999
(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
ALSEA BAY AND RIVER, OR No Vessel Trips Reported												
CHETCO RIVER, OR (7 feet and less)												
				Upbound						Downbound		
Grand Total	93	---	---	24	69	---	93	---	---	23	70	---
										Total trips:		186
CHINOOK CHANNEL, WA (7 feet and less)												
				Upbound						Downbound		
Grand Total	226	---	---	1	225	---	227	---	---	1	226	---
										Total trips:		453
CLATSKANIE RIVER, OR (5 feet and less)												
				Upbound						Downbound		
Grand Total	3	---	---	1	2	---	---	---	---	---	---	---
										Total trips:		3
COLUMBIA RIVER AT BAKERS BAY, WA (10 feet and less)												
				Upbound						Downbound		
Grand Total	237	11	---	---	226	---	234	5	---	3	226	---
										Total trips:		471
COLUMBIA SLOUGH, OR No Vessel Trips Reported												
COOS AND MILLICOMA RIVERS, OR (7 feet and less)												
				Upbound						Downbound		
Grand Total	7	---	---	7	---	---	7	---	---	7	---	---
										Total trips:		14
COQUILLE RIVER, OR No Vessel Trips Reported												
COWLITZ RIVER, WA (7 feet and less)												
				Upbound						Downbound		
Grand Total	8	---	---	4	4	---	11	---	---	5	6	---
										Total trips:		19
DEEP RIVER, WA No Vessel Trips Reported												
DEPOE BAY, OR No Vessel Trips Reported												
ELOKOMIN SLOUGH, WA No Vessel Trips Reported												
GRAYS RIVER, WA No Vessel Trips Reported												

Trips and Drafts of Vessels, 1999
(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 RIVER, WA (7 feet and less)												
				Upbound						Downbound		
Grand Total	31	—	—	31	—	—	19	—	—	19	—	—
										Total trips:	—	50
LEWIS RIVER, WA No Vessel Trips Reported												
PORT OF ST. HELENS, OR (14 feet and less)												
				Inbound						Outbound		
Grand Total	9	—	—	7	2	—	6	—	—	4	2	—
										Total trips:	2	15
PORT ORFORD, OR No Vessel Trips Reported												
ROGUE RIVER, OR (2 feet and less)												
				Upbound						Downbound		
Grand Total	1,540	1,540	—	—	—	—	1,540	1,540	—	—	—	—
										Total trips:	—	3,080
SIUSLAW RIVER, OR No Vessel Trips Reported												
SKAMOKAWA (STEAMBOAT) SLOUGH, WA No Vessel Trips Reported												
SKAMOKAWA CREEK, WA (8 feet and less)												
				Upbound						Downbound		
Grand Total	—	—	—	—	—	—	1	—	—	1	—	—
										Total trips:	—	1
SKIPANON CHANNEL, OR (13 feet and less)												
				Upbound						Downbound		
Grand Total	50	—	—	36	14	—	53	—	—	44	9	—
										Total trips:	9	103
SMITH RIVER, OR No Vessel Trips Reported												
TILLAMOOK BAY AND BAR, OR No Vessel Trips Reported												
UMPQUA RIVER, OR (11 feet and less)												
				Upbound						Downbound		
Grand Total	314	—	—	155	159	—	302	—	—	155	147	—
										Total trips:	147	616

Trips and Drafts of Vessels, 1999
(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 (11 feet and less)												
				Upbound						Downbound		
Grand Total	6,289	6,282	—	5	1	1	6,293	6,282	—	6	4	1
										Total trips:		12,582
YAQUINA BAY AND HARBOR, OR (13 feet and less)												
				Upbound						Downbound		
Grand Total	114	—	—	33	81	—	111	—	—	32	79	—
										Total trips:		225
YAQUINA RIVER, OR (7 feet and less)												
				Upbound						Downbound		
Grand Total	80	—	—	1	79	—	79	—	—	—	79	—
										Total trips:		159
YOUNGS BAY AND YOUNGS RIVER, OR (12 feet and less)												
				Upbound						Downbound		
Grand Total	15	—	—	11	4	—	14	—	—	10	4	—
										Total trips:		29

Trips and Drafts of Vessels, 1999
(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												
	Inbound						Outbound					
Grand Total	1,207	83	—	627	495	2	1,338	85	—	696	545	12
FOREIGN												
Total	85	83	—	1	1	—	87	85	—	—	1	1
36	—	—	—	—	—	—	1	1	—	—	—	—
35	—	—	—	—	—	—	1	1	—	—	—	—
34	—	—	—	—	—	—	3	3	—	—	—	—
33	—	—	—	—	—	—	16	16	—	—	—	—
32	—	—	—	—	—	—	12	12	—	—	—	—
30	3	3	—	—	—	—	3	3	—	—	—	—
29	1	1	—	—	—	—	1	1	—	—	—	—
28	1	1	—	—	—	—	2	2	—	—	—	—
27	6	6	—	—	—	—	8	8	—	—	—	—
26	7	7	—	—	—	—	13	13	—	—	—	—
25	1	1	—	—	—	—	3	3	—	—	—	—
24	11	11	—	—	—	—	6	6	—	—	—	—
23	4	4	—	—	—	—	3	3	—	—	—	—
22	—	—	—	—	—	—	2	2	—	—	—	—
21	7	7	—	—	—	—	1	1	—	—	—	—
20	9	9	—	—	—	—	2	2	—	—	—	—
19	13	13	—	—	—	—	—	—	—	—	—	—
18	9	9	—	—	—	—	—	—	—	—	—	—
17	2	2	—	—	—	—	—	—	—	—	—	—
15	1	1	—	—	—	—	—	—	—	—	—	—
≤ 12	10	8	—	1	1	—	10	8	—	—	1	1
DOMESTIC												
Total	1,122	—	—	626	494	2	1,251	—	—	696	544	11
20	2	—	—	2	—	—	2	—	—	2	—	—
19	4	—	—	4	—	—	4	—	—	4	—	—
17	2	—	—	2	—	—	8	—	—	3	5	—
16	4	—	—	4	—	—	8	—	—	4	1	3
15	4	—	—	3	1	—	11	—	—	9	2	—
14	14	—	—	10	4	—	22	—	—	16	5	1
13	20	—	—	19	1	—	49	—	—	34	15	—
≤ 12	1,072	—	—	582	488	2	1,147	—	—	624	516	7
											Total trips:	2,545
PORT ANGELES HARBOR, WA												
	Inbound						Outbound					
Grand Total	1,862	34	20	1,341	225	242	1,857	40	14	1,336	243	224
FOREIGN												
Total	239	32	9	100	98	—	256	39	7	104	103	3
45	—	—	—	—	—	—	2	—	2	—	—	—
44	2	—	2	—	—	—	—	—	—	—	—	—
43	1	—	1	—	—	—	—	—	—	—	—	—
42	—	—	—	—	—	—	3	1	2	—	—	—
41	—	—	—	—	—	—	1	—	—	1	—	—
40	—	—	—	—	—	—	1	—	1	—	—	—
36	—	—	—	—	—	—	1	—	1	—	—	—
34	1	—	1	—	—	—	—	—	—	—	—	—
33	1	—	1	—	—	—	2	2	—	—	—	—
32	1	1	—	—	—	—	5	5	—	—	—	—
31	—	—	—	—	—	—	1	1	—	—	—	—
30	2	1	1	—	—	—	5	5	—	—	—	—
29	1	1	—	—	—	—	3	3	—	—	—	—
28	3	—	1	1	1	—	4	2	—	1	1	—
27	—	—	—	—	—	—	1	1	—	—	—	—
26	—	—	—	—	—	—	1	—	1	—	—	—
25	—	—	—	—	—	—	1	1	—	—	—	—
24	9	7	1	1	—	—	7	5	—	2	—	—
23	3	2	1	—	—	—	1	1	—	—	—	—
22	1	1	—	—	—	—	3	2	—	1	—	—
21	2	2	—	—	—	—	—	—	—	—	—	—
20	1	1	—	—	—	—	2	1	—	1	—	—

Trips and Drafts of Vessels, 1999
(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						
FOREIGN												
19	3	3	—	—	—	—	1	1	—	—	—	—
≤ 18	208	13	—	98	97	—	211	8	—	98	102	3
DOMESTIC												
Total	1,623	2	11	1,241	127	242	1,601	1	7	1,232	140	221
43	1	—	1	—	—	—	—	—	—	—	—	—
38	1	—	1	—	—	—	—	—	—	—	—	—
33	1	—	1	—	—	—	—	—	—	—	—	—
30	—	—	—	—	—	—	1	—	1	—	—	—
22	257	—	—	257	—	—	253	—	—	253	—	—
19	16	—	—	9	—	7	13	—	—	11	—	2
≤ 18	1,347	2	8	975	127	235	1,334	1	6	968	140	219
Total trips:											140	3,719
 PORT TOWNSEND HARBOR, WA												
Inbound						Outbound						
Grand Total	5,055	4,798	—	134	105	18	5,033	4,794	—	130	93	16
FOREIGN												
Total	51	2	—	16	33	—	39	1	—	14	24	—
20	51	2	—	16	33	—	39	1	—	14	24	—
DOMESTIC												
Total	5,004	4,796	—	118	72	18	4,994	4,793	—	116	69	16
20	5,004	4,796	—	118	72	18	4,994	4,793	—	116	69	16
Total trips:											69	10,088
 HAMMERSLEY INLET, WA												
Upbound						Downbound						
Grand Total	431	1	—	227	203	—	442	—	—	253	189	—
FOREIGN												
Total	1	1	—	—	—	—	—	—	—	—	—	—
13	1	1	—	—	—	—	—	—	—	—	—	—
DOMESTIC												
Total	430	—	—	227	203	—	442	—	—	253	189	—
13	8	—	—	—	8	—	—	—	—	—	—	—
12	1	—	—	1	—	—	1	—	—	1	—	—
10	178	—	—	178	—	—	202	—	—	202	—	—
9	8	—	—	8	—	—	9	—	—	9	—	—
8	26	—	—	24	2	—	36	—	—	27	9	—
7	3	—	—	3	—	—	41	—	—	4	37	—
≤ 6	206	—	—	13	193	—	153	—	—	10	143	—
Total trips:											189	873
 OLYMPIA HARBOR, WA												
Inbound						Outbound						
Grand Total	212	7	—	152	52	1	216	7	—	148	60	1
FOREIGN												
Total	13	7	—	3	3	—	11	7	—	1	3	—
32	—	—	—	—	—	—	4	4	—	—	—	—
29	—	—	—	—	—	—	1	1	—	—	—	—

Trips and Drafts of Vessels, 1999
(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
OLYMPIA HARBOR, WA - continued												
	Inbound						Outbound					
FOREIGN												
28	1	1	—	—	—	—	—	—	—	—	—	—
25	1	1	—	—	—	—	—	—	—	—	—	—
24	2	2	—	—	—	—	1	1	—	—	—	—
22	1	1	—	—	—	—	1	1	—	—	—	—
20	1	1	—	—	—	—	—	—	—	—	—	—
≤ 18	7	1	—	3	3	—	4	—	—	1	3	—
DOMESTIC												
Total	199	—	—	149	49	1	205	—	—	147	57	1
≤ 18	199	—	—	149	49	1	205	—	—	147	57	1
										Total trips:		428
TACOMA HARBOR, WA												
	Inbound						Outbound					
Grand Total	17,701	9,095	95	6,521	843	1,147	17,388	8,788	88	6,505	838	1,169
FOREIGN												
Total	1,402	841	37	237	239	48	1,461	867	37	252	249	56
47	1	1	—	—	—	—	—	—	—	—	—	—
46	—	—	—	—	—	—	1	1	—	—	—	—
43	1	1	—	—	—	—	5	3	2	—	—	—
42	1	1	—	—	—	—	12	12	—	—	—	—
41	3	3	—	—	—	—	12	12	—	—	—	—
40	2	2	—	—	—	—	27	27	—	—	—	—
39	5	4	1	—	—	—	26	26	—	—	—	—
38	4	4	—	—	—	—	33	33	—	—	—	—
37	12	12	—	—	—	—	10	10	—	—	—	—
36	31	31	—	—	—	—	58	58	—	—	—	—
35	30	30	—	—	—	—	20	20	—	—	—	—
34	56	56	—	—	—	—	53	53	—	—	—	—
33	51	50	1	—	—	—	44	44	—	—	—	—
32	56	56	—	—	—	—	102	102	—	—	—	—
31	49	49	—	—	—	—	31	30	1	—	—	—
30	54	54	—	—	—	—	44	43	1	—	—	—
29	26	26	—	—	—	—	19	17	2	—	—	—
28	30	27	3	—	—	—	54	51	3	—	—	—
27	38	37	1	—	—	—	35	32	3	—	—	—
26	71	68	3	—	—	—	65	64	1	—	—	—
25	38	37	1	—	—	—	31	30	1	—	—	—
24	62	57	5	—	—	—	47	43	4	—	—	—
23	52	48	4	—	—	—	50	40	9	—	—	1
22	29	26	3	—	—	—	16	15	1	—	—	—
21	33	31	2	—	—	—	19	17	2	—	—	—
20	39	33	6	—	—	—	12	10	1	—	1	—
19	13	10	1	1	1	—	10	10	—	—	—	—
18	26	23	2	1	—	—	9	5	3	—	1	—
17	8	4	2	—	2	—	3	—	2	—	1	—
16	18	3	—	2	13	—	62	4	1	1	52	4
15	44	24	2	—	17	1	21	19	—	—	2	—
14	38	4	—	22	9	3	38	4	—	22	1	11
13	14	1	—	10	2	1	49	2	—	15	28	4
≤ 12	467	28	—	201	195	43	443	30	—	214	163	36
DOMESTIC												
Total	16,299	8,254	58	6,284	604	1,099	15,927	7,921	51	6,253	589	1,113
47	2	—	2	—	—	—	—	—	—	—	—	—
41	1	—	1	—	—	—	—	—	—	—	—	—
40	1	—	1	—	—	—	1	—	1	—	—	—
38	2	—	2	—	—	—	—	—	—	—	—	—
37	3	—	3	—	—	—	—	—	—	—	—	—
36	7	—	7	—	—	—	—	—	—	—	—	—
35	5	—	5	—	—	—	5	1	4	—	—	—
34	—	—	—	—	—	—	2	2	—	—	—	—
33	1	—	1	—	—	—	7	7	—	—	—	—
32	1	—	1	—	—	—	15	15	—	—	—	—

Trips and Drafts of Vessels, 1999
(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												
31	4	3	1	—	—	—	17	17	—	—	—	—
30	4	2	2	—	—	—	4	4	—	—	—	—
29	8	8	—	—	—	—	6	6	—	—	—	—
28	322	321	1	—	—	—	136	136	—	—	—	—
27	36	36	—	—	—	—	56	53	3	—	—	—
26	16	16	—	—	—	—	2	2	—	—	—	—
25	3	3	—	—	—	—	3	3	—	—	—	—
24	3	2	—	—	—	1	—	—	—	—	—	—
23	—	—	—	—	—	—	3	1	1	—	—	1
22	63	—	—	63	—	—	60	1	—	59	—	—
21	—	—	—	—	—	—	14	—	—	—	—	14
20	12	—	1	10	—	1	13	—	—	9	—	4
19	7	—	—	4	—	3	14	—	—	2	1	11
18	341	—	—	331	—	10	325	—	2	322	—	1
17	2,144	1	—	2,137	—	6	2,136	—	—	2,130	1	5
16	46	—	—	30	—	16	43	—	—	33	—	10
15	273	13	—	233	4	23	264	—	—	241	—	23
14	367	—	—	323	8	36	376	—	—	351	2	23
13	104	—	—	66	—	38	101	—	—	61	6	34
≤ 12	12,523	7,849	30	3,087	592	965	12,324	7,673	40	3,045	579	987
										Total trips:		35,089

SEATTLE HARBOR, WA

	Inbound						Outbound					
Grand Total	49,908	37,237	111	8,466	2,569	1,525	51,077	37,264	114	9,426	2,746	1,527

FOREIGN

Total	2,480	922	10	805	714	29	2,834	1,032	12	872	880	38
38	66	65	—	1	—	—	77	76	1	—	—	—
37	21	20	1	—	—	—	33	32	1	—	—	—
36	44	44	—	—	—	—	92	92	—	—	—	—
35	36	36	—	—	—	—	15	13	—	—	2	—
34	58	55	1	1	1	—	32	32	—	—	—	—
33	74	73	1	—	—	—	22	20	2	—	—	—
32	80	80	—	—	—	—	173	172	1	—	—	—
31	52	52	—	—	—	—	33	33	—	—	—	—
30	58	57	1	—	—	—	25	25	—	—	—	—
29	34	34	—	—	—	—	61	61	—	—	—	—
28	35	33	2	—	—	—	31	28	3	—	—	—
27	43	42	1	—	—	—	56	55	1	—	—	—
26	55	55	—	—	—	—	103	103	—	—	—	—
25	40	39	1	—	—	—	27	27	—	—	—	—
24	41	41	—	—	—	—	49	48	1	—	—	—
23	51	51	—	—	—	—	55	53	—	—	2	—
22	31	29	2	—	—	—	27	26	1	—	—	—
21	26	26	—	—	—	—	32	30	—	1	1	—
20	17	13	—	2	—	2	14	10	1	2	—	1
19	11	10	—	—	—	1	10	10	—	—	—	—
≤ 18	1,607	67	—	801	713	26	1,867	86	—	869	875	37

DOMESTIC

Total	47,428	36,315	101	7,661	1,855	1,496	48,243	36,232	102	8,554	1,866	1,489
37	—	—	—	—	—	—	1	—	1	—	—	—
36	—	—	—	—	—	—	2	2	—	—	—	—
35	—	—	—	—	—	—	2	1	1	—	—	—
34	1	1	—	—	—	—	10	10	—	—	—	—
33	1	1	—	—	—	—	17	17	—	—	—	—
32	—	—	—	—	—	—	17	15	2	—	—	—
31	1	—	1	—	—	—	2	2	—	—	—	—
30	3	1	2	—	—	—	1	1	—	—	—	—
29	3	2	1	—	—	—	9	7	2	—	—	—
28	44	41	3	—	—	—	14	11	3	—	—	—
27	22	21	1	—	—	—	7	7	—	—	—	—
26	34	33	1	—	—	—	11	11	—	—	—	—
25	23	20	1	—	1	1	9	7	1	—	—	1
24	7	7	—	—	—	—	5	4	1	—	—	—

Trips and Drafts of Vessels, 1999
(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
SEATTLE HARBOR, WA - continued												
	Inbound						Outbound					
DOMESTIC												
23	2	2	—	—	—	—	3	3	—	—	—	—
22	74	2	—	71	—	1	81	—	—	81	—	—
21	20	—	—	—	2	18	9	—	—	—	4	5
20	59	1	1	51	—	6	52	—	—	50	1	1
19	51	—	—	38	—	13	43	—	—	41	—	2
≤ 18	47,083	36,183	90	7,501	1,852	1,457	47,948	36,134	91	8,382	1,861	1,480
										Total trips:		100,985
LAKE WASHINGTON SHIP CANAL, WA												
	Upbound						Downbound					
Grand Total	4,379	2,604	2	1,052	662	59	4,228	2,568	2	958	659	41
FOREIGN												
Total	52	15	2	23	8	4	52	7	2	21	20	2
≤ 22	52	15	2	23	8	4	52	7	2	21	20	2
DOMESTIC												
Total	4,327	2,589	—	1,029	654	55	4,176	2,561	—	937	639	39
≤ 22	4,327	2,589	—	1,029	654	55	4,176	2,561	—	937	639	39
										Total trips:		8,607
EVERETT HARBOR AND SNOHOMISH RIVER, WA												
	Inbound						Outbound					
Grand Total	2,381	572	10	1,281	478	40	2,238	574	9	1,184	435	36
FOREIGN												
Total	157	22	—	42	93	—	110	24	—	40	45	1
36	1	1	—	—	—	—	—	—	—	—	—	—
35	—	—	—	—	—	—	1	1	—	—	—	—
34	1	1	—	—	—	—	—	—	—	—	—	—
33	—	—	—	—	—	—	1	1	—	—	—	—
32	—	—	—	—	—	—	6	6	—	—	—	—
31	—	—	—	—	—	—	1	1	—	—	—	—
30	—	—	—	—	—	—	1	1	—	—	—	—
29	—	—	—	—	—	—	2	2	—	—	—	—
28	2	2	—	—	—	—	3	3	—	—	—	—
27	1	1	—	—	—	—	1	1	—	—	—	—
26	—	—	—	—	—	—	3	3	—	—	—	—
25	4	4	—	—	—	—	1	1	—	—	—	—
24	3	3	—	—	—	—	1	1	—	—	—	—
23	1	1	—	—	—	—	—	—	—	—	—	—
22	2	2	—	—	—	—	1	1	—	—	—	—
21	1	1	—	—	—	—	—	—	—	—	—	—
≤ 18	141	6	—	42	93	—	88	2	—	40	45	1
DOMESTIC												
Total	2,224	550	10	1,239	385	40	2,128	550	9	1,144	390	35
22	22	—	—	22	—	—	16	—	—	16	—	—
20	—	—	—	—	—	—	1	—	—	1	—	—
19	2	—	—	2	—	—	2	—	—	2	—	—
≤ 18	2,200	550	10	1,215	385	40	2,109	550	9	1,125	390	35
										Total trips:		4,619

Trips and Drafts of Vessels, 1999
(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

ANACORTES HARBOR, WA

Grand Total	Inbound						Outbound					
	8,475	5,601	260	2,206	21	387	8,480	5,598	239	2,219	14	410

FOREIGN

Total	241	31	54	116	13	27	223	29	50	112	9	23
47	1	1	—	—	—	—	—	—	—	—	—	—
46	—	—	—	—	—	—	2	—	2	—	—	—
45	—	—	—	—	—	—	4	—	4	—	—	—
44	2	1	1	—	—	—	2	—	2	—	—	—
43	1	—	1	—	—	—	—	—	—	—	—	—
42	6	—	6	—	—	—	2	—	2	—	—	—
41	2	1	1	—	—	—	—	—	—	—	—	—
40	2	—	2	—	—	—	—	—	—	—	—	—
39	1	—	1	—	—	—	3	—	3	—	—	—
38	2	—	2	—	—	—	—	—	—	—	—	—
37	3	—	3	—	—	—	1	—	1	—	—	—
36	4	2	2	—	—	—	1	—	1	—	—	—
35	3	—	3	—	—	—	3	1	2	—	—	—
34	2	—	2	—	—	—	3	—	3	—	—	—
33	8	—	8	—	—	—	4	—	4	—	—	—
32	5	—	5	—	—	—	5	2	3	—	—	—
30	5	2	3	—	—	—	4	1	3	—	—	—
29	2	1	1	—	—	—	6	4	2	—	—	—
28	2	—	2	—	—	—	4	1	3	—	—	—
27	1	—	1	—	—	—	3	—	3	—	—	—
26	4	1	3	—	—	—	1	—	1	—	—	—
25	2	—	2	—	—	—	7	3	4	—	—	—
24	2	1	1	—	—	—	3	1	2	—	—	—
23	1	1	—	—	—	—	3	—	3	—	—	—
22	1	—	1	—	—	—	2	1	1	—	—	—
21	2	2	—	—	—	—	—	—	—	—	—	—
20	3	1	—	—	—	2	—	—	—	—	—	—
≤ 18	174	17	3	116	13	25	160	15	1	112	9	23

DOMESTIC

Total	8,234	5,570	206	2,090	8	360	8,257	5,569	189	2,107	5	387
54	—	—	—	—	—	—	1	—	1	—	—	—
53	—	—	—	—	—	—	1	—	1	—	—	—
47	—	—	—	—	—	—	1	—	1	—	—	—
45	2	—	2	—	—	—	—	—	—	—	—	—
44	12	—	12	—	—	—	—	—	—	—	—	—
43	16	—	16	—	—	—	—	—	—	—	—	—
42	8	—	8	—	—	—	—	—	—	—	—	—
41	3	—	3	—	—	—	1	—	1	—	—	—
40	11	—	11	—	—	—	1	—	1	—	—	—
39	11	—	11	—	—	—	—	—	—	—	—	—
38	23	—	23	—	—	—	4	—	4	—	—	—
37	10	—	10	—	—	—	5	—	5	—	—	—
36	10	—	10	—	—	—	4	—	4	—	—	—
35	1	—	1	—	—	—	2	—	2	—	—	—
34	10	—	10	—	—	—	4	—	4	—	—	—
33	9	—	9	—	—	—	2	—	2	—	—	—
32	11	—	11	—	—	—	4	—	4	—	—	—
31	7	—	7	—	—	—	4	—	4	—	—	—
30	2	—	2	—	—	—	17	—	17	—	—	—
29	4	—	4	—	—	—	11	—	11	—	—	—
28	1	—	1	—	—	—	13	—	13	—	—	—
27	3	—	3	—	—	—	2	—	2	—	—	—
26	4	—	3	—	—	1	6	—	3	—	—	3
25	3	—	3	—	—	—	24	—	24	—	—	—
24	—	—	—	—	—	—	11	—	11	—	—	—
23	1	—	1	—	—	—	—	—	—	—	—	—
22	487	—	—	487	—	—	503	—	1	499	1	2
21	9	—	—	—	—	9	11	—	—	—	—	11
20	66	—	18	44	—	4	70	—	10	55	—	5
19	67	—	—	55	—	12	100	—	—	67	—	33
≤ 18	7,443	5,570	27	1,504	8	334	7,455	5,569	63	1,486	4	333
										Total trips:		16,955

Trips and Drafts of Vessels, 1999
(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

	Inbound						Outbound					
Grand Total	1,613	492	16	859	202	44	1,615	487	21	873	181	53

FOREIGN

Total	172	77	12	36	37	10	169	75	14	33	30	17
33	2	2	—	—	—	—	2	2	—	—	—	—
29	—	—	—	—	—	—	1	1	—	—	—	—
28	1	1	—	—	—	—	9	8	1	—	—	—
27	3	2	1	—	—	—	2	2	—	—	—	—
26	5	5	—	—	—	—	2	2	—	—	—	—
25	4	3	1	—	—	—	7	6	1	—	—	—
24	5	5	—	—	—	—	7	4	3	—	—	—
23	3	2	1	—	—	—	3	2	1	—	—	—
22	9	8	1	—	—	—	4	1	3	—	—	—
21	2	—	2	—	—	—	2	1	1	—	—	—
20	2	—	2	—	—	—	2	—	2	—	—	—
19	10	8	2	—	—	—	3	2	1	—	—	—
≤ 18	126	41	2	36	37	10	125	44	1	33	30	17

DOMESTIC

Total	1,441	415	4	823	165	34	1,446	412	7	840	151	36
30	1	—	1	—	—	—	1	—	1	—	—	—
28	—	—	—	—	—	—	1	—	1	—	—	—
26	—	—	—	—	—	—	1	—	1	—	—	—
24	3	—	3	—	—	—	2	—	2	—	—	—
22	281	—	—	281	—	—	297	—	—	297	—	—
21	—	—	—	—	—	—	2	—	2	—	—	—
20	1	—	—	1	—	—	1	—	—	1	—	—
19	6	—	—	6	—	—	4	—	—	4	—	—
≤ 18	1,149	415	—	535	165	34	1,137	412	—	538	151	36
										Total trips:	538	36
												3,228

Project

BLAINE HARBOR, WA
(12 feet and less)

	Inbound						Outbound					
Grand Total	22	—	—	20	2	—	19	—	—	18	1	—
										Total trips:	19	41

COLUMBIA RIVER BETWEEN WENATCHEE AND KETTLE FALLS, WA
(8 feet and less)

	Upbound						Downbound					
Grand Total	11,890	11,880	—	10	—	—	11,884	11,880	—	4	—	—
										Total trips:	4	23,774

FLATHEAD LAKE, MT
No Vessel Trips Reported

HOQUIAM RIVER, WA
(14 feet and less)

	Upbound						Downbound					
Grand Total	116	—	—	100	16	—	87	—	—	71	16	—
										Total trips:	16	203

KOOTENAI RIVER, ID AND MT
No Vessel Trips Reported

Trips and Drafts of Vessels, 1999
(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
Project												
NEAH BAY, WA (15 feet and less)												
				Inbound							Outbound	
Grand Total	33	---	---	19	14	---	54	---	---	25	29	---
										Total trips:		87
PORT GAMBLE HARBOR, WA (16 feet and less)												
				Inbound							Outbound	
Grand Total	46	---	---	38	8	---	35	---	---	30	5	---
										Total trips:		81
QUILLAYUTE RIVER, WA (22 feet and less)												
				Upbound							Downbound	
Grand Total	2	---	---	2	---	---	2	---	---	2	---	---
										Total trips:		4
SKAGIT RIVER, WA (7 feet and less)												
				Upbound							Downbound	
Grand Total	17	16	---	1	---	---	17	16	---	1	---	---
										Total trips:		34
STILLAGUAMISH RIVER, WA No Vessel Trips Reported												
SWINOMISH CHANNEL, WA (13 feet and less)												
				Upbound							Downbound	
Grand Total	326	130	---	154	42	---	322	137	---	143	42	---
										Total trips:		648
WATERWAY CONNECTING PORT TOWNSEND BAY AND OAK BAY, WA (17 feet and less)												
				Upbound							Downbound	
Grand Total	43	---	---	35	8	---	52	---	---	44	8	---
										Total trips:		95
WILLAPA RIVER AND HARBOR, AND NASELLE RIVER, WA No Vessel Trips Reported												
Non-project												
COEUR D ALENE LAKE AND ST. JOE RIVER, ID (7 feet and less)												
				Upbound							Downbound	
Grand Total	737	---	---	737	---	---	737	---	---	737	---	---
										Total trips:		1,474
OTHER PUGET SOUND AREA PORTS, WA (56 feet and less)												
				Inbound							Outbound	
Grand Total	136,571	129,013	281	5,279	1,523	475	135,818	128,983	294	4,526	1,524	491
										Total trips:		272,389

Trips and Drafts of Vessels, 1999
(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												
				Inbound						Outbound		
Grand Total	3,246	1,883	---	651	596	116	3,445	2,008	---	706	600	131
FOREIGN												
Total	1,030	761	---	132	135	2	1,068	781	---	140	145	2
29	4	---	---	---	4	---	13	6	---	---	7	---
28	12	12	---	---	---	---	16	16	---	---	---	---
27	52	52	---	---	---	---	57	57	---	---	---	---
26	77	77	---	---	---	---	77	77	---	---	---	---
25	75	75	---	---	---	---	77	77	---	---	---	---
24	65	65	---	---	---	---	64	64	---	---	---	---
23	45	45	---	---	---	---	44	44	---	---	---	---
22	28	28	---	---	---	---	28	27	---	1	---	---
21	1	1	---	---	---	---	1	1	---	---	---	---
20	3	---	---	---	3	---	3	---	---	---	3	---
19	10	10	---	---	---	---	3	3	---	---	---	---
18	9	8	---	---	1	---	4	2	---	---	2	---
17	15	14	---	---	1	---	16	16	---	---	---	---
16	30	4	---	7	19	---	31	4	---	7	20	---
15	26	5	---	12	8	1	21	2	---	14	4	1
14	16	5	---	1	10	---	28	7	---	7	14	---
13	37	27	---	8	2	---	34	31	---	3	---	---
≤ 12	525	333	---	104	87	1	551	347	---	108	95	1
DOMESTIC												
Total	2,216	1,122	---	519	461	114	2,377	1,227	---	566	455	129
20	24	---	---	24	---	---	15	---	---	15	---	---
18	9	---	---	8	---	1	30	---	---	30	---	---
17	9	---	---	8	---	1	12	---	---	12	---	---
16	56	29	---	27	---	---	48	28	---	20	---	---
15	403	299	---	94	3	7	419	299	---	111	4	5
14	166	96	---	13	57	---	172	96	---	19	56	1
13	267	197	---	67	---	3	271	198	---	68	1	4
≤ 12	1,282	501	---	278	401	102	1,410	606	---	291	394	119
											Total trips:	6,691
WRANGELL NARROWS, AK												
				Upbound						Downbound		
Grand Total	1,494	671	---	409	335	79	1,504	704	---	374	344	82
DOMESTIC												
Total	1,494	671	---	409	335	79	1,504	704	---	374	344	82
20	18	---	---	18	---	---	13	---	---	13	---	---
18	18	---	---	18	---	---	9	---	---	9	---	---
17	4	---	---	4	---	---	4	---	---	3	---	1
16	45	25	---	20	---	---	48	27	---	21	---	---
15	402	288	---	109	---	5	410	288	---	116	1	5
14	170	98	---	11	61	---	163	98	---	10	55	---
13	116	49	---	64	---	3	113	49	---	64	---	---
≤ 12	721	211	---	165	274	71	744	242	---	138	288	76
											Total trips:	2,998
JUNEAU HARBOR, AK												
				Upbound						Downbound		
Grand Total	2,924	2,406	---	231	240	47	2,958	2,460	---	225	233	40
FOREIGN												
Total	344	333	---	5	5	1	398	393	---	1	3	1
24	250	249	---	---	1	---	310	307	---	---	3	---
23	33	33	---	---	---	---	39	39	---	---	---	---
22	19	19	---	---	---	---	20	20	---	---	---	---
21	1	1	---	---	---	---	---	---	---	---	---	---

Trips and Drafts of Vessels, 1999
(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

JUNEAU HARBOR, AK - continued

Upbound

Downbound

FOREIGN

20	5	4	—	—	—	1	2	2	—	—	—	—
19	2	2	—	—	—	—	1	1	—	—	—	—
18	1	1	—	—	—	—	1	1	—	—	—	—
17	20	19	—	—	1	—	19	19	—	—	—	—
16	1	1	—	—	—	—	—	—	—	—	—	—
15	1	—	—	1	—	—	1	—	—	1	—	—
14	2	—	—	1	1	—	—	—	—	—	—	—
13	1	—	—	—	1	—	—	—	—	—	—	—
12	2	—	—	2	—	—	1	—	—	—	—	1
11	4	2	—	1	1	—	2	2	—	—	—	—
10	1	1	—	—	—	—	1	1	—	—	—	—
6	1	1	—	—	—	—	1	1	—	—	—	—

DOMESTIC

Total	2,580	2,073	—	226	235	46	2,560	2,067	—	224	230	39
20	22	—	—	22	—	—	16	—	—	16	—	—
18	14	—	—	14	—	—	19	—	—	18	—	1
17	7	—	—	7	—	—	7	—	—	7	—	—
16	51	29	—	22	—	—	49	29	—	20	—	—
15	372	300	—	69	—	3	386	300	—	83	—	3
14	206	146	—	14	46	—	205	146	—	13	46	—
13	120	78	—	39	—	3	114	78	—	36	—	—
12	88	82	—	2	—	4	84	82	—	2	—	—
11	6	—	—	2	—	4	2	—	—	1	—	1
10	98	62	—	29	—	7	88	62	—	23	—	3
9	43	40	—	—	—	3	33	25	—	—	—	8
8	23	18	—	—	—	5	17	14	—	—	—	3
7	36	27	—	—	2	7	36	30	—	—	1	5
6	76	71	—	2	—	3	90	81	—	1	4	4
5	100	—	—	—	97	3	100	—	—	—	97	3
4	3	—	—	—	—	3	5	—	—	—	—	5
3	1,116	1,047	—	—	68	1	1,117	1,047	—	—	67	3
2	195	173	—	4	18	—	192	173	—	4	15	—
1	4	—	—	—	4	—	—	—	—	—	—	—
										Total trips:		5,882

VALDEZ HARBOR, AK

Inbound

Outbound

Grand Total	1,550	1,057	382	65	8	38	1,601	1,056	437	63	7	38
--------------------	--------------	--------------	------------	-----------	----------	-----------	--------------	--------------	------------	-----------	----------	-----------

FOREIGN

Total	27	1	21	1	1	3	30	1	24	2	1	2
58	—	—	—	—	—	—	8	—	8	—	—	—
55	—	—	—	—	—	—	6	—	6	—	—	—
54	—	—	—	—	—	—	3	—	3	—	—	—
52	—	—	—	—	—	—	4	—	4	—	—	—
50	—	—	—	—	—	—	1	—	1	—	—	—
43	1	1	—	—	—	—	—	—	—	—	—	—
42	1	—	1	—	—	—	—	—	—	—	—	—
40	1	—	1	—	—	—	—	—	—	—	—	—
39	2	—	2	—	—	—	—	—	—	—	—	—
38	3	—	3	—	—	—	2	—	2	—	—	—
37	1	—	1	—	—	—	—	—	—	—	—	—
36	3	—	3	—	—	—	—	—	—	—	—	—
35	3	—	3	—	—	—	—	—	—	—	—	—
34	2	—	2	—	—	—	—	—	—	—	—	—
33	2	—	2	—	—	—	—	—	—	—	—	—
32	1	—	1	—	—	—	—	—	—	—	—	—
29	2	—	2	—	—	—	—	—	—	—	—	—
24	2	—	—	—	1	1	2	—	—	—	1	1
17	1	—	—	—	—	1	—	—	—	—	—	—
15	1	—	—	1	—	—	2	—	—	2	—	—
13	—	—	—	—	—	—	1	1	—	—	—	—
≤ 12	1	—	—	—	—	1	1	—	—	—	—	1

Trips and Drafts of Vessels, 1999
(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												
Total	1,523	1,056	361	64	7	35	1,571	1,055	413	61	6	36
61	—	—	—	—	—	—	5	—	5	—	—	—
60	1	—	1	—	—	—	28	—	28	—	—	—
59	—	—	—	—	—	—	6	—	6	—	—	—
58	—	—	—	—	—	—	2	—	2	—	—	—
57	—	—	—	—	—	—	11	—	11	—	—	—
56	—	—	—	—	—	—	8	—	8	—	—	—
55	—	—	—	—	—	—	11	—	11	—	—	—
54	—	—	—	—	—	—	12	—	12	—	—	—
53	—	—	—	—	—	—	19	—	19	—	—	—
52	—	—	—	—	—	—	14	—	14	—	—	—
50	—	—	—	—	—	—	11	—	11	—	—	—
49	—	—	—	—	—	—	42	—	42	—	—	—
48	—	—	—	—	—	—	37	—	37	—	—	—
47	1	—	1	—	—	—	32	—	32	—	—	—
46	—	—	—	—	—	—	3	—	3	—	—	—
45	—	—	—	—	—	—	5	—	5	—	—	—
44	1	—	1	—	—	—	30	—	30	—	—	—
43	3	—	3	—	—	—	33	—	33	—	—	—
42	3	—	3	—	—	—	20	—	20	—	—	—
41	2	—	2	—	—	—	5	—	5	—	—	—
40	15	—	15	—	—	—	5	—	5	—	—	—
39	16	—	16	—	—	—	9	—	9	—	—	—
38	17	—	17	—	—	—	45	—	45	—	—	—
37	8	—	8	—	—	—	10	—	10	—	—	—
36	10	—	10	—	—	—	1	—	1	—	—	—
35	12	—	12	—	—	—	—	—	—	—	—	—
34	3	—	3	—	—	—	—	—	—	—	—	—
33	6	—	6	—	—	—	—	—	—	—	—	—
32	6	—	6	—	—	—	—	—	—	—	—	—
31	6	—	6	—	—	—	—	—	—	—	—	—
30	14	—	14	—	—	—	—	—	—	—	—	—
29	6	—	6	—	—	—	—	—	—	—	—	—
28	8	—	8	—	—	—	—	—	—	—	—	—
27	2	—	2	—	—	—	—	—	—	—	—	—
26	1	—	1	—	—	—	—	—	—	—	—	—
25	48	—	48	—	—	—	—	—	—	—	—	—
24	13	—	13	—	—	—	—	—	—	—	—	—
23	19	—	19	—	—	—	3	—	—	—	—	3
22	1	—	1	—	—	—	2	—	1	—	—	1
21	—	—	—	—	—	—	2	—	—	—	—	2
20	22	—	14	8	—	—	10	—	—	7	—	3
19	1	—	—	—	—	1	1	—	—	—	—	1
18	12	—	10	—	1	1	2	—	—	—	2	—
17	5	—	—	5	—	—	10	—	4	4	—	2
16	13	7	—	6	—	—	9	7	—	2	—	—
15	16	6	—	10	—	—	18	6	—	11	—	1
14	34	2	21	11	—	—	20	2	3	13	—	2
13	42	37	—	4	—	1	53	37	—	7	—	9
≤ 12	1,156	1,004	94	20	6	32	1,037	1,003	1	17	4	12
										Total trips:		3,151

SEWARD HARBOR, AK

	Inbound						Outbound					
Grand Total	541	518	—	7	9	7	520	504	—	3	6	7
FOREIGN												
Total	107	107	—	—	—	—	98	98	—	—	—	—
38	—	—	—	—	—	—	4	4	—	—	—	—
33	—	—	—	—	—	—	1	1	—	—	—	—
28	6	6	—	—	—	—	5	5	—	—	—	—
27	20	20	—	—	—	—	17	17	—	—	—	—
26	27	27	—	—	—	—	24	24	—	—	—	—
25	20	20	—	—	—	—	19	19	—	—	—	—
24	20	20	—	—	—	—	16	16	—	—	—	—
23	1	1	—	—	—	—	—	—	—	—	—	—

Trips and Drafts of Vessels, 1999
(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
SEWARD HARBOR, AK - continued												
	Inbound						Outbound					
FOREIGN												
22	1	1	—	—	—	—	1	1	—	—	—	—
17	7	7	—	—	—	—	7	7	—	—	—	—
16	1	1	—	—	—	—	1	1	—	—	—	—
15	1	1	—	—	—	—	1	1	—	—	—	—
14	1	1	—	—	—	—	—	—	—	—	—	—
12	2	2	—	—	—	—	2	2	—	—	—	—
DOMESTIC												
Total	434	411	—	7	9	7	422	406	—	3	6	7
26	1	—	—	—	—	1	—	—	—	—	—	—
22	1	—	—	—	—	1	—	—	—	—	—	—
16	7	7	—	—	—	—	7	7	—	—	—	—
15	4	4	—	—	—	—	4	4	—	—	—	—
14	5	3	—	—	2	—	7	3	—	—	2	2
13	52	52	—	—	—	—	52	52	—	—	—	—
12	9	—	—	4	5	—	6	1	—	2	3	—
11	22	22	—	—	—	—	22	21	—	—	—	1
10	4	2	—	—	1	1	2	2	—	—	—	—
9	116	113	—	3	—	—	204	202	—	1	—	1
8	1	—	—	—	—	1	1	—	—	—	—	1
7	91	91	—	—	—	—	—	—	—	—	—	—
6	1	—	—	—	1	—	3	—	—	—	1	2
4	100	100	—	—	—	—	109	109	—	—	—	—
3	18	15	—	—	—	3	—	—	—	—	—	—
2	2	2	—	—	—	—	5	5	—	—	—	—
										Total trips:		1,061

HOMER, AK

Grand Total	Inbound						Outbound					
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
Grand Total	364	278	14	21	32	19	364	272	13	29	32	18
FOREIGN												
Total	72	42	14	4	12	—	64	37	13	3	11	—
27	21	13	8	—	—	—	26	17	9	—	—	—
26	2	2	—	—	—	—	1	1	—	—	—	—
25	3	1	2	—	—	—	3	1	2	—	—	—
24	3	3	—	—	—	—	3	3	—	—	—	—
23	3	2	1	—	—	—	3	2	1	—	—	—
22	2	2	—	—	—	—	—	—	—	—	—	—
21	6	6	—	—	—	—	4	4	—	—	—	—
20	4	3	1	—	—	—	10	2	1	—	7	—
19	6	6	—	—	—	—	4	4	—	—	—	—
18	2	1	—	—	1	—	1	—	—	—	1	—
17	4	2	1	—	1	—	2	2	—	—	—	—
16	10	—	—	1	9	—	4	—	—	1	3	—
15	2	1	—	1	—	—	1	1	—	—	—	—
12	2	—	—	2	—	—	2	—	—	2	—	—
11	1	—	1	—	—	—	—	—	—	—	—	—
10	1	—	—	—	1	—	—	—	—	—	—	—
DOMESTIC												
Total	292	236	—	17	20	19	300	235	—	26	21	18
20	1	—	—	1	—	—	—	—	—	—	—	—
17	—	—	—	—	—	—	2	—	—	2	—	—
16	8	5	—	2	—	1	6	5	—	—	—	1
15	2	—	—	1	1	—	7	—	—	7	—	—
14	12	9	—	1	—	2	11	9	—	2	—	—
13	100	87	—	7	—	6	96	87	—	8	—	1
12	6	—	—	1	4	1	10	—	—	1	6	3
11	40	38	—	—	—	2	40	38	—	—	—	2
10	4	—	—	4	—	—	10	—	—	5	1	4
9	2	—	—	—	—	2	—	—	—	—	—	—
7	1	—	—	—	1	—	1	—	—	—	1	—
6	1	—	—	—	—	1	—	—	—	—	—	—
5	3	2	—	—	1	—	3	1	—	1	—	1

Trips and Drafts of Vessels, 1999
(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
HOMER, AK - continued												
	Inbound						Outbound					
DOMESTIC												
4	59	57	—	—	—	2	92	90	—	—	1	1
3	15	5	—	—	8	2	19	3	—	—	11	5
2	36	33	—	—	3	—	2	2	—	—	—	—
1	2	—	—	—	2	—	1	—	—	—	1	—
											Total trips:	728
ANCHORAGE, AK												
	Inbound						Outbound					
Grand Total	755	234	12	243	229	37	759	240	8	246	230	35
FOREIGN												
Total	37	24	11	—	2	—	42	28	7	3	4	—
38	1	—	1	—	—	—	1	1	—	—	—	—
37	1	—	1	—	—	—	—	—	—	—	—	—
35	1	—	1	—	—	—	—	—	—	—	—	—
34	—	—	—	—	—	—	5	—	5	—	—	—
32	1	1	—	—	—	—	1	1	—	—	—	—
31	2	—	2	—	—	—	1	1	—	—	—	—
30	3	2	1	—	—	—	3	3	—	—	—	—
28	1	1	—	—	—	—	1	1	—	—	—	—
27	3	1	2	—	—	—	1	—	1	—	—	—
26	2	—	2	—	—	—	2	1	1	—	—	—
25	2	1	1	—	—	—	1	1	—	—	—	—
24	1	1	—	—	—	—	1	1	—	—	—	—
23	—	—	—	—	—	—	1	1	—	—	—	—
22	1	1	—	—	—	—	3	1	—	1	1	—
21	2	2	—	—	—	—	5	5	—	—	—	—
20	5	5	—	—	—	—	3	2	—	—	1	—
19	1	1	—	—	—	—	2	2	—	—	—	—
18	1	1	—	—	—	—	3	3	—	—	—	—
17	1	1	—	—	—	—	3	2	—	1	—	—
16	2	2	—	—	—	—	1	1	—	—	—	—
15	2	2	—	—	—	—	—	—	—	—	—	—
13	—	—	—	—	—	—	1	—	—	1	—	—
≤ 12	4	2	—	—	2	—	3	1	—	—	2	—
DOMESTIC												
Total	718	210	1	243	227	37	717	212	1	243	226	35
38	—	—	—	—	—	—	1	—	1	—	—	—
34	1	1	—	—	—	—	—	—	—	—	—	—
33	4	4	—	—	—	—	—	—	—	—	—	—
32	19	19	—	—	—	—	1	1	—	—	—	—
31	12	12	—	—	—	—	—	—	—	—	—	—
30	6	6	—	—	—	—	1	1	—	—	—	—
29	—	—	—	—	—	—	12	12	—	—	—	—
28	132	132	—	—	—	—	148	148	—	—	—	—
27	—	—	—	—	—	—	10	10	—	—	—	—
26	—	—	—	—	—	—	5	5	—	—	—	—
25	36	36	—	—	—	—	35	35	—	—	—	—
23	1	—	—	—	—	1	—	—	—	—	—	1
22	3	—	1	—	—	2	3	—	—	—	2	1
21	4	—	—	—	3	1	1	—	—	—	—	1
20	11	—	—	9	—	2	10	—	—	10	—	—
19	3	—	—	—	1	2	2	—	—	—	—	2
18	4	—	—	—	2	2	2	—	—	—	1	1
17	4	—	—	3	—	1	5	—	—	5	—	—
16	2	—	—	—	—	2	1	—	—	—	1	—
15	21	—	—	8	11	2	16	—	—	6	9	1
14	18	—	—	15	1	2	23	—	—	18	2	3
13	15	—	—	11	—	4	21	—	—	9	—	12
≤ 12	422	—	—	197	209	16	419	—	—	195	211	13
										Total trips:	1,514	

Trips and Drafts of Vessels, 1999
(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

KODIAK HARBOR, AK

	Inbound						Outbound					
Grand Total	384	294	3	43	2	42	412	293	2	70	4	43

FOREIGN

Total	2	1	1	—	—	—	1	1	—	—	—	—
29	1	—	1	—	—	—	—	—	—	—	—	—
19	—	—	—	—	—	—	1	1	—	—	—	—
18	1	1	—	—	—	—	—	—	—	—	—	—

DOMESTIC

Total	382	293	2	43	2	42	411	292	2	70	4	43
30	1	—	1	—	—	—	1	1	—	—	—	—
29	11	11	—	—	—	—	11	11	—	—	—	—
28	13	12	1	—	—	—	9	9	—	—	—	—
27	12	12	—	—	—	—	14	14	—	—	—	—
26	3	3	—	—	—	—	1	1	—	—	—	—
24	34	34	—	—	—	—	33	33	—	—	—	—
23	—	—	—	—	—	—	1	1	—	—	—	—
21	1	—	—	—	1	—	1	—	—	—	1	—
17	1	1	—	—	—	—	—	—	—	—	—	—
16	11	5	—	6	—	—	10	6	—	4	—	—
15	10	3	—	7	—	—	24	4	—	20	—	—
14	15	11	—	1	—	3	12	10	—	1	—	1
13	104	90	—	6	—	8	105	90	—	13	—	2
12	16	9	—	2	—	5	13	9	—	3	—	1
11	44	41	—	—	—	3	43	41	—	—	—	2
10	29	1	—	21	—	7	27	1	—	24	—	2
9	3	—	—	—	—	3	62	55	—	4	—	3
8	5	—	—	—	—	5	5	—	2	—	—	3
7	4	—	—	—	—	4	6	—	—	—	—	6
6	2	1	—	—	—	1	7	1	—	1	—	5
5	—	—	—	—	—	—	2	—	—	—	—	2
4	8	5	—	—	1	2	7	5	—	—	1	1
3	1	—	—	—	—	1	15	—	—	—	—	15
2	54	54	—	—	—	—	2	—	—	—	2	—

Total trips: 796

UNALASKA BAY AND ISLAND, AK

	Inbound						Outbound					
Grand Total	850	649	4	107	17	73	835	621	3	108	25	78

FOREIGN

Total	285	279	4	1	1	—	283	278	3	1	1	—
34	39	38	1	—	—	—	47	46	1	—	—	—
33	20	20	—	—	—	—	15	15	—	—	—	—
32	13	13	—	—	—	—	12	12	—	—	—	—
31	11	10	1	—	—	—	7	7	—	—	—	—
30	4	3	1	—	—	—	3	3	—	—	—	—
29	1	1	—	—	—	—	1	1	—	—	—	—
28	—	—	—	—	—	—	2	2	—	—	—	—
27	2	2	—	—	—	—	3	3	—	—	—	—
26	1	—	1	—	—	—	—	—	—	—	—	—
24	2	2	—	—	—	—	4	4	—	—	—	—
23	3	3	—	—	—	—	4	4	—	—	—	—
22	7	7	—	—	—	—	8	8	—	—	—	—
21	9	9	—	—	—	—	19	17	2	—	—	—
20	15	15	—	—	—	—	17	17	—	—	—	—
19	11	11	—	—	—	—	20	20	—	—	—	—
18	21	21	—	—	—	—	23	23	—	—	—	—
17	20	20	—	—	—	—	16	16	—	—	—	—
16	26	26	—	—	—	—	28	28	—	—	—	—
15	34	34	—	—	—	—	23	23	—	—	—	—
14	16	15	—	1	—	—	12	11	—	1	—	—
13	12	12	—	—	—	—	7	7	—	—	—	—
12	4	4	—	—	—	—	1	1	—	—	—	—
11	8	8	—	—	—	—	7	7	—	—	—	—
10	3	2	—	—	1	—	3	2	—	—	1	—

Trips and Drafts of Vessels, 1999
(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												
9	1	1	—	—	—	—	—	—	—	—	—	—
8	1	1	—	—	—	—	—	—	—	—	—	—
7	1	1	—	—	—	—	1	1	—	—	—	—
DOMESTIC												
Total	565	370	—	106	16	73	552	343	—	107	24	78
34	6	6	—	—	—	—	—	—	—	—	—	—
33	6	6	—	—	—	—	—	—	—	—	—	—
32	1	1	—	—	—	—	1	1	—	—	—	—
31	—	—	—	—	—	—	2	2	—	—	—	—
30	1	1	—	—	—	—	3	3	—	—	—	—
29	4	4	—	—	—	—	1	1	—	—	—	—
28	8	8	—	—	—	—	7	7	—	—	—	—
27	6	6	—	—	—	—	6	6	—	—	—	—
26	3	3	—	—	—	—	2	2	—	—	—	—
24	16	16	—	—	—	—	16	16	—	—	—	—
23	1	—	—	—	—	1	—	—	—	—	—	—
22	1	—	—	—	—	1	—	—	—	—	—	—
21	2	—	—	—	1	1	—	—	—	—	—	—
20	22	12	—	9	—	1	10	—	—	10	—	—
19	1	—	—	—	—	1	1	1	—	—	—	—
18	5	1	—	1	—	3	3	1	—	1	—	1
17	3	—	—	2	—	1	2	1	—	1	—	—
16	17	11	—	1	—	5	16	11	—	3	—	2
15	34	21	—	12	—	1	38	20	—	14	—	2
14	50	16	—	27	5	2	49	20	—	23	6	—
13	74	69	—	2	—	3	76	70	—	2	—	4
12	106	98	—	2	5	1	114	101	—	3	9	1
11	41	38	—	—	1	2	45	42	—	—	1	2
10	77	26	—	44	—	7	76	18	—	46	—	12
9	32	22	—	6	1	3	29	16	—	4	1	8
8	6	2	—	—	—	4	9	1	—	—	1	7
7	3	—	—	—	1	2	3	—	—	—	—	3
6	7	2	—	—	1	4	9	2	—	—	1	6
5	6	1	—	—	—	5	10	1	—	—	—	9
4	1	—	—	—	—	1	2	—	—	—	1	1
3	5	—	—	—	—	5	7	—	—	—	—	7
2	20	—	—	—	1	19	15	—	—	—	2	13
										Total trips:		1,685
Project												
BETHEL HARBOR, AK (15 feet and less)												
	Inbound						Outbound					
Grand Total	279	4	—	124	145	6	282	4	—	121	152	5
										Total trips:		561
CORDOVA HARBOR, AK (16 feet and less)												
	Inbound						Outbound					
Grand Total	271	213	—	42	—	16	264	213	—	36	—	15
										Total trips:		535
CRAIG HARBOR, AK (13 feet and less)												
	Inbound						Outbound					
Grand Total	108	1	—	55	30	22	106	1	—	54	30	21
										Total trips:		214
DILLINGHAM HARBOR, AK (21 feet and less)												
	Inbound						Outbound					
Grand Total	65	8	—	23	26	8	62	9	—	21	24	8
										Total trips:		127
DOUGLAS HARBOR, AK (13 feet and less)												
	Inbound						Outbound					
Grand Total	1,116	1,110	—	3	—	3	1,107	1,104	—	1	—	2
										Total trips:		2,223

Trips and Drafts of Vessels, 1999
(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
Project												
DRY PASS, AK (4 feet and less)												
			Inbound						Outbound			
Grand Total	1	1	---	---	---	---	1	1	---	---	---	---
										Total trips:		2
EGEGIK RIVER, AK (13 feet and less)												
			Inbound						Outbound			
Grand Total	19	---	---	5	11	3	21	---	---	6	12	3
										Total trips:		40
ELFIN COVE HARBOR, AK (12 feet and less)												
			Inbound						Outbound			
Grand Total	18	---	---	9	4	5	18	---	---	9	4	5
										Total trips:		36
GASTINEAU CHANNEL, AK No Vessel Trips Reported												
HOONAH HARBOR, AK (19 feet and less)												
			Inbound						Outbound			
Grand Total	384	290	---	34	46	14	395	296	---	40	45	14
										Total trips:		779
HUMBOLDT HARBOR, AK (22 feet and less)												
			Inbound						Outbound			
Grand Total	295	158	---	78	45	14	283	154	---	70	46	13
										Total trips:		578
KAKE HARBOR, AK (16 feet and less)												
			Inbound						Outbound			
Grand Total	289	156	---	45	70	18	286	164	---	37	68	17
										Total trips:		575
KING COVE LAGOON, AK (22 feet and less)												
			Inbound						Outbound			
Grand Total	254	141	---	61	44	8	252	138	---	61	44	9
										Total trips:		506
METLAKATLA HARBOR, AK (13 feet and less)												
			Inbound						Outbound			
Grand Total	405	217	---	49	123	16	456	269	---	48	124	15
										Total trips:		861
NAKNEK RIVER, AK (20 feet and less)												
			Upbound						Downbound			
Grand Total	121	8	---	41	57	15	105	7	---	36	45	17
										Total trips:		226
NINILCHIK HARBOR, AK (4 feet and less)												
			Inbound						Outbound			
Grand Total	7	6	---	---	1	---	7	6	---	---	1	---
										Total trips:		14
NOME, AK (22 feet and less)												
			Inbound						Outbound			
Grand Total	70	17	---	16	30	7	58	18	---	8	28	4
										Total trips:		128

Trips and Drafts of Vessels, 1999
(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
Project												
OLD HARBOR, AK (15 feet and less)												
				Inbound						Outbound		
Grand Total	14	12	---	---	---	2	14	12	---	---	---	2
										Total trips:	---	28
PELICAN HARBOR, AK (13 feet and less)												
				Inbound						Outbound		
Grand Total	60	24	---	17	12	7	60	24	---	17	12	7
										Total trips:		120
PETERSBURG HARBOR, AK (20 feet and less)												
				Inbound						Outbound		
Grand Total	1,075	538	---	260	243	34	1,101	555	---	266	246	34
										Total trips:		2,176
PORT ALEXANDER, AK (6 feet and less)												
				Inbound						Outbound		
Grand Total	1	---	---	1	---	---	1	---	---	1	---	---
										Total trips:	---	2
ROCKY PASS IN KEKU STRAIT, AK (10 feet and less)												
				Upbound						Downbound		
Grand Total	2	---	---	1	---	1	2	---	---	1	---	1
										Total trips:	---	4
SELDOVIA HARBOR, AK (16 feet and less)												
				Inbound						Outbound		
Grand Total	79	71	---	5	2	1	75	71	---	1	2	1
										Total trips:		154
SERGIUS AND WHITESTONE NARROWS, AK (16 feet and less)												
				Upbound						Downbound		
Grand Total	337	31	---	99	186	21	331	27	---	100	183	21
										Total trips:		668
SITKA HARBOR, AK (25 feet and less)												
				Inbound						Outbound		
Grand Total	1,478	1,103	---	164	187	24	1,566	1,211	---	138	193	24
										Total trips:		3,044
SKAGWAY HARBOR, AK (34 feet and less)												
				Inbound						Outbound		
Grand Total	743	605	---	68	67	3	712	578	---	65	66	3
										Total trips:		1,455
STIKINE RIVER, AK No Vessel Trips Reported												
WRANGELL HARBOR, AK (24 feet and less)												
				Inbound						Outbound		
Grand Total	939	448	---	227	242	22	926	452	---	208	244	22
										Total trips:		1,865
Non-project												
CHATHAM STRAIT, AK (33 feet and less)												
				Upbound						Downbound		
Grand Total	1,660	1,030	---	238	313	79	1,730	1,095	---	259	290	86
										Total trips:		3,390

Trips and Drafts of Vessels, 1999
(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	
Non-project													
CLARENCE STRAIT, AK (24 feet and less)													
				Upbound							Downbound		
Grand Total	1,918	1,045	---	395	391	87	2,032	1,179	---	360	426	67	
										Total trips:		3,950	
FREDERICK SOUND, AK (33 feet and less)													
				Upbound							Downbound		
Grand Total	1,445	690	---	304	361	90	1,423	742	---	297	306	78	
										Total trips:		2,868	
ICY STRAIT, AK (34 feet and less)													
				Upbound							Downbound		
Grand Total	2,724	2,403	---	123	149	49	2,832	2,458	---	152	167	55	
										Total trips:		5,556	
KIVILINA, AK (20 feet and less)													
				Inbound							Outbound		
Grand Total	810	---	---	200	607	3	813	---	---	202	608	3	
										Total trips:		1,623	
KLAWOCK, AK (17 feet and less)													
				Inbound							Outbound		
Grand Total	152	---	---	111	36	5	151	1	---	107	38	5	
										Total trips:		303	
NIKISHKA, AK (40 feet and less)													
				Inbound							Outbound		
Grand Total	245	37	123	46	14	25	257	36	114	54	16	37	
										Total trips:		502	
PRINCE OF WALES IS. WEST SIDE, AK (13 feet and less)													
				Inbound							Outbound		
Grand Total	207	35	---	110	44	18	205	37	---	109	41	18	
										Total trips:		412	
REVILLAGIGADO CHANNEL, AK (29 feet and less)													
				Upbound							Downbound		
Grand Total	2,715	1,817	---	388	440	70	2,869	1,943	---	407	463	56	
										Total trips:		5,584	
STEPHENS PASSAGE, AK (33 feet and less)													
				Upbound							Downbound		
Grand Total	1,932	1,299	---	282	285	66	1,884	1,378	---	209	258	39	
										Total trips:		3,816	
SUMNER STRAIT, AK (21 feet and less)													
				Upbound							Downbound		
Grand Total	1,899	1,100	---	346	369	84	2,008	1,137	---	352	435	84	
										Total trips:		3,907	
TONGASS NARROWS, AK (29 feet and less)													
				Upbound							Downbound		
Grand Total	3,634	1,954	---	788	725	167	3,664	2,095	---	710	739	120	
										Total trips:		7,298	

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