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WATERBORNE COMMERCE OF THE UNITED STATES

Calendar Year 1999

Part 3—
Waterways and Harbors
Great Lakes



Department of the Army
Corps of Engineers

Institute for Water Resources

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WATERBORNE COMMERCE OF THE UNITED STATES

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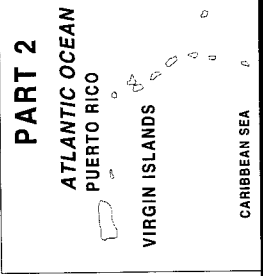
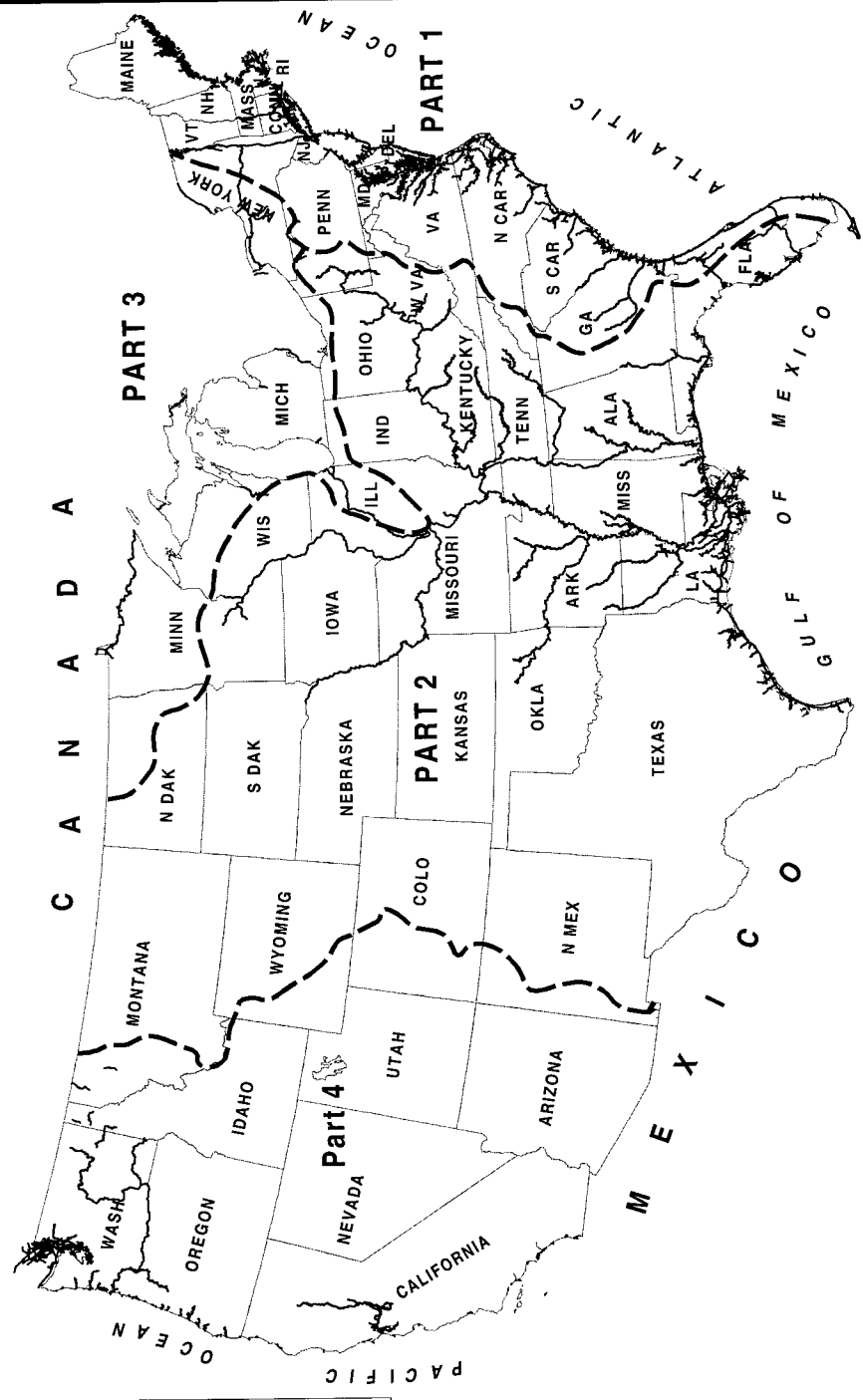
Part 3—
Waterways and Harbors
Great Lakes



Compiled under the supervision of
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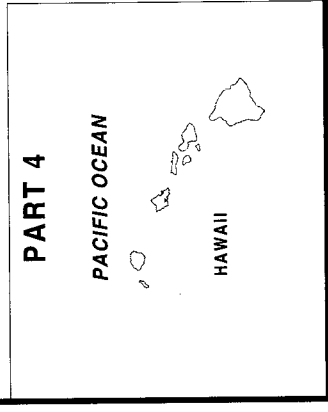
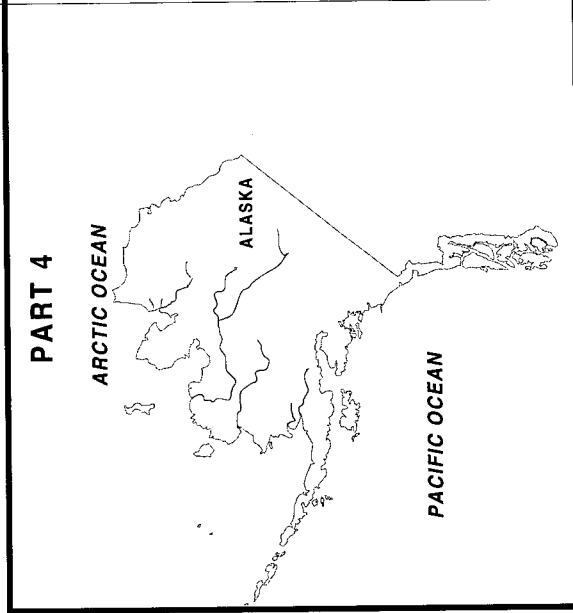
Geographical Areas Covered by
Waterborne Commerce Statistics Publications
of the
DEPARTMENT OF THE ARMY CORPS OF ENGINEERS
(heavy broken lines indicate the limits embraced by
each part of the five part series)



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)

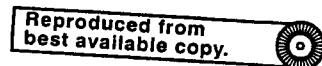
PART 5



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Introduction

General

Waterborne Commerce of the United States, WCUS, Part 3 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

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

Terminology

Types of Traffic

Foreign

Imports

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

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

Exports

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

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

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

Domestic

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

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

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

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

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

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

Intra-waterway: 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

<u>Major Grouping</u>	<u>Major Grouping</u>
<u>Minor Grouping</u>	<u>Minor Grouping</u>
<u>Pub Group Pub Name</u>	<u>Pub Group Pub Name</u>
00 Units	3282 Pigments & Paints
0200 Vehicles	3283 Coloring Mat. NEC
0300 Passengers	3284 Medicines
10 Coal	3285 Perfumes & Cleansers
1100 Coal	3286 Plastics
1200 Coal Coke	3291 Pesticides
20 Petroleum & Petroleum Products	3292 Starches,Gluten,Glue
21 Crude Petroleum	3293 Explosives
2100 Crude Petroleum	3297 Chemical Additives
22-29 Petroleum Products	3298 Wood & Resin Chem.
2211 Gasoline	3299 Chem. Products NEC
2221 Kerosene	40 Crude Materials, Inedible Except Fuels
2330 Distillate Fuel Oil	41 Forest Products, Wood and Chips
2340 Residual Fuel Oil	4110 Rubber & Gums
2350 Lube Oil & Greases	4150 Fuel Wood
2410 Petro. Jelly & Waxes	4161 Wood Chips
2429 Naphtha & Solvents	4170 Wood in the Rough
2430 Asphalt, Tar & Pitch	4189 Lumber
2540 Petroleum Coke	4190 Forest Products NEC
2640 Liquid Natural Gas	42 Pulp and Waste Paper
2990 Petro. Products NEC	4225 Pulp & Waste Paper
30 Chemicals and Related Products	43 Soil, Sand, Gravel, Rock and Stone
31 Fertilizers	4310 Building Stone
3110 Nitrogenous Fert.	4322 Limestone
3120 Phosphatic Fert.	4323 Gypsum
3130 Potassic Fert.	4327 Phosphate Rock
3190 Fert. & Mixes NEC	4331 Sand & Gravel
32 Other Chemicals and Related Products	4333 Dredged Material
3211 Acyclic Hydrocarbons	4335 Waterway Improv. Mat
3212 Benzene & Toluene	4338 Soil & Fill Dirt
3219 Other Hydrocarbons	44 Iron Ore and Scrap
3220 Alcohols	4410 Iron Ore
3230 Carboxylic Acids	4420 Iron & Steel Scrap
3240 Nitrogen Func. Comp.	45 Marine Shells
3250 Organo-Inorganic Comp.	4515 Marine Shells
3260 Organic Comp. NEC	46 Non-Ferrous Ores and Scrap
3271 Sulphur (Liquid)	4630 Copper Ore
3272 Sulphuric Acid	4650 Aluminum Ore
3273 Ammonia	4670 Manganese Ore
3274 Sodium Hydroxide	4680 Non-Ferrous Scrap
3275 Inorg. Elem.,Oxides, & Halogen Salts	4690 Non-Ferrous Ores NEC
3276 Metallic Salts	47 Sulphur, Clay and Salt
3279 Inorganic Chem. NEC	4741 Sulphur, (Dry)
3281 Radioactive Material	4782 Clay & Refrac. Mat.
	4783 Salt
	48 Slag
	4860 Slag
	49 Other Non-Metal. Min.
	4900 Non-Metal. Min. NEC

Commodity Classification List (continued)

<u>Major Grouping</u>	<u>Minor Grouping</u>	<u>Pub Group</u>	<u>Pub Name</u>	<u>Major Grouping</u>	<u>Minor Grouping</u>	<u>Pub Group</u>	<u>Pub Name</u>
50	Primary Manufactured Goods					6811	Meat, Fresh, Frozen
	51 Paper Products					6817	Meat, Prepared
		5110	Newsprint			6822	Dairy Products
		5120	Paper & Paperboard			6835	Fish, Prepared
		5190	Paper Products NEC			6838	Tallow, Animal Oils
	52 Lime, Cement and Glass					6839	Animals & Prod. NEC
		5210	Lime			6856	Bananas & Plantains
		5220	Cement & Concrete			6857	Fruit & Nuts NEC
		5240	Glass & Glass Prod.			6858	Fruit Juices
		5290	Misc. Mineral Prod.			6861	Sugar
	53 Primary Iron and Steel Products					6865	Molasses
		5312	Pig Iron			6871	Coffee
		5315	Ferro Alloys			6872	Cocoa Beans
		5320	I&S Primary Forms			6885	Alcoholic Beverages
		5330	I&S Plates & Sheets			6887	Groceries
		5360	I&S Bars & Shapes			6888	Water & Ice
		5370	I&S Pipe & Tube			6889	Food Products NEC
		5390	Primary I&S NEC			6891	Tobacco & Products
	54 Primary Non-Ferrous Metal Products					6893	Cotton
		5421	Copper			6894	Natural Fibers NEC
		5422	Aluminum			6899	Farm Products NEC
		5429	Smelted Prod. NEC				
		5480	Fab. Metal Products				
	55 Primary Wood Products; Veneer			70	All Manufactured Equipment, Machinery and Products		
		5540	Primary Wood Prod.			7110	Machinery (Not Elec)
						7120	Electrical Machinery
60	Food and Farm Products					7210	Vehicles & Parts
	61 Fish					7220	Aircraft & Parts
		6134	Fish (Not Shellfish)			7230	Ships & Boats
		6136	Shellfish			7300	Ordnance & Access.
	62-64 Grain					7400	Manufac. Wood Prod.
		6241	Wheat			7500	Textile Products
		6344	Corn			7600	Rubber & Plastic Pr.
		6442	Rice			7800	Empty Containers
		6443	Barley & Rye			7900	Manufac. Prod. NEC
		6445	Oats				
		6447	Sorghum Grains				
	65 Oilseeds			80	Waste and Scrap NEC		
		6521	Peanuts			8900	Waste and Scrap NEC
		6522	Soybeans				
		6534	Flaxseed				
		6590	Oilseeds NEC				
	66 Vegetable Products			90	Unknown or Not Elsewhere Classified		
		6653	Vegetable Oils			99	Unknown or Not Elsewhere Clsfd
		6654	Vegetables & Prod.			9900	Unknown or NEC
	67 Processed Grain and Animal Feed						
		6746	Wheat Flour				
		6747	Grain Mill Products				
		6781	Hay & Fodder				
		6782	Animal Feed, Prep.				
	68 Other Agricultural Products						

TABLE 1-TON-MILEAGE OF UNITED STATES FREIGHT CARRIED ON THE GREAT LAKES BY AREA, CALENDAR YEAR 1999
(thousand ton-miles)

Area	Area Totals			Foreign						Domestic						Intraport		
	In/Out	Through	Total	Overseas		Canadian		Coastwise		Lakewise		Internal		In/Out	Through	Total	In/Out	Through
				In/Out	Through	In/Out	Through	In/Out	Through	In/Out	Through	In/Out	Through					
DETROIT RIVER, MI	2,116,227	161,508	2,277,735	25,329	1,650,767	53,848	702,933	---	---	228,212	942,433	1,784	180	---	---	---	---	---
*LAKE ERIE	13,511,335	387,549	13,908,884	387,549	1,650,767	3,551,576	3,565,974	---	---	3,491,056	863,611	414	---	---	---	---	---	388
LAKE HURON	25,856,240	1,735	25,857,975	1,735	1,393,487	1,184,082	4,950,052	---	---	5,829,609	12,489,155	5,093	3,029	---	---	---	---	---
**LAKE MICHIGAN	22,784,327	924,205	23,708,532	924,205	3,114,808	3,371,256	4,292,632	---	---	15,432,319	2,992,093	13,707	---	---	---	---	---	50,747
***LAKE ONTARIO	7,502,269	2,791	7,505,060	2,791	3,114,808	92,038	4,292,632	---	---	---	---	---	---	---	---	---	---	---
LAKE SUPERIOR	26,799,903	1,277,417	28,077,320	1,277,417	202,207	4,226,465	651,097	---	---	20,214,257	430,666	1	412	---	---	---	---	0
ST. CLAIR RIVER, MI	2,873,575	930	2,874,505	930	202,207	22,796	910,906	---	---	175,122	1,561,203	---	---	---	---	---	---	---
***ST. LAWRENCE RIVER	2,011,897	627	2,012,524	627	893,568	21,157	1,096,545	---	---	---	---	---	---	---	---	---	---	---
ST. MARYS RIVER, MI	5,049,169	250	5,050,419	250	212,069	25,207	1,095,419	---	---	43,816	3,672,407	---	---	---	---	---	---	---
WELLAND CANAL, CANADA	691,586	---	691,586	---	216,195	---	475,391	---	---	---	---	---	---	---	---	---	---	---
NET UNITED STATES TRAFFIC ON THE GREAT LAKES	109,196,529	10,465,442	119,661,971	10,465,442	30,289,373	30,289,373	---	---	68,365,960	12,277	63,477	63,477	---	---	---	---	---	---

* Including Upper Niagara River
 ** Including the Port of Chicago (Chicago Harbor, North Branch, South Branch, Sanitary Ship Canal, Calumet-Sag Channel, Lake Calumet and Calumet Harbor and River)
 *** Including Lower Niagara River
 **** Between International boundary line and Lake Ontario

TABLE 2-FREIGHT TONS OF UNITED STATES TRAFFIC CARRIED ON THE GREAT LAKES BY AREA, CALENDAR YEAR 1999
(thousand short tons)

Area	Area Totals	Foreign						Domestic												
		Overseas			Canadian			Coastwise			Lakewise			Internal			Intraport			
		In/Out	Through		In/Out	Through		In/Out	Through		In/Out	Through		In/Out	Through		In/Out	Through		
DETROIT RIVER, MI	75,242	1,067	5,210	3,551	22,675	---	---	12,179	30,401	153	6	---	---	---	---	---	---	---	---	---
*LAKE ERIE	89,100	1,731	6,277	22,919	14,672	---	---	32,948	10,159	6	---	---	---	---	---	---	---	---	---	---
LAKE HURON	116,091	6	5,179	5,157	20,496	---	---	24,050	61,179	13	11	---	---	---	---	---	---	---	---	388
**LAKE MICHIGAN	62,165	1,860	---	7,139	---	---	---	38,046	9,764	2,091	---	---	---	---	---	---	---	---	---	---
***LAKE ONTARIO	26,231	43	8,007	762	17,419	---	---	---	0	---	---	---	---	---	---	---	---	---	---	0
LAKES SUPERIOR	79,828	3,314	---	12,961	3,679	---	---	---	2,093	1	---	---	---	---	---	---	---	---	---	1
ST. CLAIR RIVER, MI	79,910	25	5,185	1,042	23,357	---	---	---	40,031	---	11	---	---	---	---	---	---	---	---	---
****ST. LAWRENCE RIVER	18,167	10	8,050	253	9,853	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ST. MARYS RIVER, MI	81,315	5	3,314	584	18,656	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
WELLAND CANAL, CANADA	25,696	---	8,007	---	17,689	---	---	---	57,381	---	---	---	---	---	---	---	---	---	---	---
NET UNITED STATES TRAFFIC ON THE GREAT LAKES	182,862	8,060	---	54,980	---	---	---	113,903	---	1,538	---	---	---	---	---	---	---	---	---	4,380

* Including Upper Niagara River
 ** Including the Port of Chicago (Chicago Harbor, North Branch, South Branch, Sanitary Ship Canal, Calumet-Sag Channel, Lake Calumet and Calumet Harbor and River)
 *** Including Lower Niagara River
 **** Between International boundary line and Lake Ontario

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES BY TYPE OF TRAFFIC AND COMMODITY

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	167,140	1993	159,628	1996	181,773	1999	182,862
1991	151,051	1994	175,275	1997	188,579		
1992	159,947	1995	177,750	1998	192,235		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign				Domestic		
		Imports		Exports		Lakewise	Internal	Intraport
		Canadian	Overseas	Canadian	Overseas			
Total, all commodities	182,862	18,113	4,084	36,933	3,976	113,838	1,538	4,380
Total coal	41,570	481	—	19,467	82	20,709	257	574
1100 coal lignite	40,661	380	—	19,219	61	20,421	14	566
1200 coal coke	909	101	—	248	21	288	243	8
Total petroleum and petroleum products	4,928	519	26	645	21	2,217	260	1,241
Subtotal crude petroleum	6	—	—	6	—	—	—	—
2100 crude petroleum	6	—	—	6	—	—	—	—
Subtotal petroleum products	4,923	519	26	639	21	2,217	260	1,241
2211 gasoline	627	38	—	18	—	571	0	0
2221 kerosene	29	—	—	29	—	—	—	—
2330 distillate fuel oil	478	12	—	31	0	212	8	215
2340 residual fuel oil	620	98	—	24	—	262	17	220
2350 lube oil & greases	243	49	0	154	0	—	32	7
2410 petro. jelly & waxes	0	0	0	—	0	—	—	—
2429 naphtha & solvents	38	—	—	34	0	—	—	3
2430 asphalt, tar & pitch	1,753	21	5	61	—	1,099	186	381
2540 petroleum coke	1,130	300	20	288	20	72	17	413
2640 liquid natural gas	1	—	—	1	0	—	0	0
2990 petro. products nec	4	—	—	—	—	2	—	2
Total chemicals and related products	1,259	480	73	217	45	140	75	230
Subtotal fertilizers	417	326	42	17	2	—	23	8
3110 nitrogenous fert.	112	44	37	5	0	—	18	8
3120 phosphatic fert.	3	—	—	—	—	—	3	—
3130 potassic fert.	291	282	6	3	—	—	2	—
3190 fert. & mixes nec	11	—	0	9	2	—	—	—
Subtotal other chemicals and related products	842	154	31	200	43	140	53	222
3211 acyclic hydrocarbons	0	—	—	—	0	—	—	—
3212 benzene & toluene	39	13	—	14	—	—	—	11
3219 other hydrocarbons	46	0	7	0	0	—	19	20
3220 alcohols	93	0	0	—	0	—	—	92
3230 carboxylic acids	2	0	1	0	1	—	—	—
3240 nitrogen func. comp.	3	1	1	0	2	—	—	—
3250 organo - inorg. comp.	2	0	0	—	1	—	—	—
3260 organic comp. nec	16	—	0	15	2	—	—	—
3273 ammonia	1	1	—	—	—	—	—	—
3274 sodium hydroxide	143	—	0	126	—	—	17	—
3275 inorg. elem., oxides, & halogen salts	52	46	0	0	6	—	—	—
3276 metallic salts	405	90	16	44	1	140	15	99
3279 inorganic chem. nec	4	—	0	—	3	—	2	—
3281 radioactive material	0	0	—	—	0	—	—	—
3282 pigments & paints	5	2	0	0	2	—	—	—
3283 coloring mat. nec	0	0	0	—	0	—	—	—
3284 medicines	2	—	0	0	2	—	—	—
3285 perfumes & cleansers	8	0	0	0	8	—	—	—
3286 plastics	11	0	2	1	8	—	—	—
3291 pesticides	0	—	0	—	0	—	—	—
3292 starches, gluten, glue	3	—	1	—	2	—	—	—
3293 explosives	0	—	0	—	—	—	—	—
3297 chemical additives	2	0	0	0	2	—	—	—
3298 wood & resin chem.	0	—	0	—	0	—	—	—
3299 chem. products nec	4	0	1	0	3	—	—	—
Total crude materials, inedible except fuels	115,313	12,858	384	12,428	133	86,843	384	2,283
Subtotal forest products, wood and chips	123	115	0	0	7	0	0	0
4110 rubber & gums	0	—	—	0	0	—	—	—
4150 fuel wood	0	—	—	0	0	—	—	—
4161 wood chips	0	—	—	0	—	—	—	—
4170 wood in the rough	6	2	—	—	3	—	—	0
4189 lumber	116	112	0	0	3	0	0	0
4190 forest products nec	0	—	0	—	0	—	—	—
Subtotal pulp and waste paper	23	—	10	—	13	—	—	—
4225 pulp & waste paper	23	—	10	—	13	—	—	—
Subtotal soil, sand, gravel, rock and stone	39,191	1,792	0	5,111	2	30,399	38	1,849
4310 building stone	0	0	0	—	—	—	—	—

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES BY TYPE OF TRAFFIC AND COMMODITY
Freight Traffic, 1998 - continued
(thousand short tons)

Commodity	Grand Total	Foreign				Domestic		
		Imports		Exports		Lakewise	Internal	Intraport
		Canadian	Overseas	Canadian	Overseas			
4322 limestone	33,144	—	—	4,398	—	28,702	28	16
4323 gypsum	1,108	—	—	58	0	1,040	9	—
4327 phosphate rock	123	—	—	123	—	—	—	—
4331 sand & gravel	4,748	1,792	—	531	2	641	0	1,781
4335 waterway improv. mat	67	—	—	—	—	16	—	52
Subtotal iron ore and scrap	66,428	5,000	22	6,442	2	54,497	112	355
4410 iron ore	66,013	4,848	—	6,440	—	54,299	77	349
4420 iron & steel scrap	415	152	22	2	2	198	34	6
Subtotal non-ferrous ores and scrap	361	42	284	0	18	—	—	17
4650 aluminum ore	91	2	66	—	6	—	—	17
4680 non-ferrous scrap	188	28	161	0	0	—	—	—
4690 non-ferrous ores nec	82	13	57	—	12	—	—	—
Subtotal sulphur, clay and salt	2,559	2,286	48	139	71	—	15	—
4782 clay & refrac. mat.	2,559	2,286	48	139	71	—	15	—
Subtotal slag	1,236	168	—	142	—	701	220	6
4860 slag	1,236	168	—	142	—	701	220	6
Subtotal other non-metal. min.	5,392	3,455	20	594	20	1,246	—	57
4900 non-metal. min. nec	5,392	3,455	20	594	20	1,246	—	57
Total primary manufactured goods	11,286	3,334	3,532	220	33	3,705	412	51
Subtotal paper products	14	0	3	5	5	—	—	—
5120 paper & paperboard	7	0	3	1	3	—	—	—
5190 paper products nec	6	0	0	4	3	—	—	—
Subtotal lime, cement and glass	6,938	3,167	70	204	17	3,459	13	7
5220 cement & concrete	6,901	3,167	50	204	—	3,459	13	7
5240 glass & glass prod.	3	0	0	0	2	—	—	—
5290 misc. mineral prod.	35	0	19	0	15	0	0	—
Subtotal primary iron and steel products	4,216	135	3,388	8	1	245	395	43
5312 pig iron	312	110	136	4	0	—	61	—
5315 ferro alloys	30	—	5	—	—	—	24	—
5320 i&s primary forms	471	19	403	—	0	—	48	—
5330 i&s plates & sheets	2,904	5	2,480	3	0	233	138	43
5360 i&s bars & shapes	353	0	351	—	0	—	2	—
5370 i&s pipe & tube	9	0	7	—	1	1	—	—
5390 primary i&s nec	138	0	4	—	0	12	121	—
Subtotal primary non-ferrous metal products	115	32	71	0	8	0	3	0
5421 copper	1	0	0	0	1	—	—	—
5422 aluminum	74	31	42	0	1	—	—	—
5429 smelted prod. nec	20	0	19	—	1	—	—	—
5480 fab. metal products	20	0	10	0	5	0	3	0
Subtotal primary wood products	4	0	0	3	2	—	—	—
5540 primary wood prod.	4	0	0	3	2	—	—	—
Total food and farm products	8,269	432	22	3,872	3,577	222	143	0
Subtotal fish	1	—	0	1	—	—	—	—
6134 fish (not shellfish)	0	—	0	0	—	—	—	—
6136 shellfish	1	—	0	1	—	—	—	—
Subtotal grain	5,665	431	9	2,275	2,624	222	104	—
6241 wheat	2,111	50	—	180	1,658	222	1	—
6344 corn	3,102	—	0	2,092	908	—	102	—
6442 rice	7	—	0	0	7	—	—	—
6443 barley & rye	259	211	—	—	47	—	—	—
6445 oats	182	170	9	4	—	—	—	—
6447 sorghum grains	4	—	—	—	4	—	—	—
Subtotal oilseeds	2,417	—	0	1,531	846	—	39	—
6522 soybeans	2,328	—	—	1,514	775	—	39	—
6534 flaxseed	0	—	—	—	0	—	—	—
6590 oilseeds nec	89	—	0	17	71	—	—	—
Subtotal vegetable products	13	1	0	0	12	—	—	—
6653 vegetable oils	0	—	0	—	0	—	—	—
6654 vegetables & prod.	13	1	0	0	12	—	—	—
Subtotal processed grain and animal feed	119	1	1	43	75	0	—	0
6746 wheat flour	0	—	0	—	0	—	—	—
6747 grain mill products	1	—	0	0	0	0	—	0
6781 hay & fodder	2	—	—	1	1	—	—	—
6782 animal feed, prep.	117	1	0	42	74	—	—	—
Subtotal other agricultural products	53	0	11	21	20	—	—	—
6811 meat, fresh, frozen	1	0	0	0	1	—	—	—
6817 meat, prepared	0	—	—	0	0	—	—	—
6822 dairy products	1	—	0	1	0	—	—	—
6835 fish, prepared	0	—	0	0	—	—	—	—
6838 tallow, animal oils	14	—	—	1	13	—	—	—
6839 animals & prod. nec	3	—	0	0	3	—	—	—
6857 fruit & nuts nec	2	0	0	1	1	—	—	—

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES BY TYPE OF TRAFFIC AND COMMODITY
 Freight Traffic, 1998 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign				Domestic		
		Imports		Exports		Lakewise	Internal	Inraport
		Canadian	Overseas	Canadian	Overseas			
6858 fruit juices	2	—	0	0	2	—	—	—
6861 sugar	12	—	9	3	—	—	—	—
6865 molasses	14	—	—	14	—	—	—	—
6871 coffee	0	0	0	0	0	—	—	—
6872 cocoa beans	0	—	0	—	—	—	—	—
6885 alcoholic beverages	1	0	1	0	0	—	—	—
6887 groceries	0	—	—	0	—	—	—	—
6888 water & ice	1	—	1	0	0	—	—	—
6889 food products nec	2	—	0	0	1	—	—	—
6894 natural fibers nec	0	—	0	—	—	—	—	—
6899 farm products nec	0	—	—	—	0	—	—	—
Total all manufactured equipment, machinery and products	209	7	46	60	86	2	7	1
7110 machinery (not elec)	71	4	30	2	27	1	7	1
7120 electrical machinery	27	1	5	13	8	—	—	—
7210 vehicles & parts	35	0	3	1	31	—	—	1
7220 aircraft & parts	0	0	0	—	0	—	—	—
7230 ships & boats	13	0	0	13	0	—	—	—
7300 ordnance & access.	0	0	0	—	0	—	—	—
7400 manufac. wood prod.	4	0	0	0	4	0	0	—
7500 textile products	5	0	2	2	1	—	—	—
7600 rubber & plastic pr.	6	0	1	1	4	—	—	—
7900 manufac. prod. nec	47	1	6	29	11	—	—	0
Total waste and scrap nec	0	—	—	—	—	0	—	—
8900 waste and scrap nec	0	—	—	—	—	0	—	—
Total unknown or not elsewhere classified	27	2	1	24	0	0	—	—
9900 unknown or nec	27	2	1	24	0	0	—	—

*Includes 36 (x1000) tons of foreign inbound in-transits; Includes 3 (x1000) tons of foreign outbound in-transits;

Section 1 Freight Traffic

WAUKEGAN HARBOR, IL

Section Included: Artificial harbor basin of about 13.5 acres and entrance channel from Lake Michigan approximately 2,200 feet in length. Project Depth: 22 feet in entrance channel; 18 feet between piers and inner basin; 8 feet in anchorage area of approximately 6 acres.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	490	1993	577	1996	469	1999	560
1991	598	1994	604	1997	473		
1992	520	1995	496	1998	555		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Lakewise Receipts
Total, all commodities	560	560
Total crude materials, inedible except fuels	273	273
Subtotal soil, sand, gravel, rock and stone	273	273
4323 gypsum	273	273
Total primary manufactured goods	286	286
Subtotal lime, cement and glass	286	286
5220 cement & concrete	286	286
Total all manufactured equipment, machinery and products	1	1
7110 machinery (not elec)	1	1

CHICAGO RIVER (MAIN AND NORTH BRANCH), IL (INCLUDED IN PORT OF CHICAGO)

Section Included: Main River from Rush Street to junction of North and South Branch; North Branch to North Avenue. Project Depth: 21 feet from Rush Street in the Main River to North Avenue in the North Branch, including the North Branch Canal and the North Turning Branch Basin.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	2,207	1993	1,764	1996	700	1999	949
1991	1,802	1994	1,944	1997	733		
1992	1,337	1995	867	1998	935		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Internal		
		Inbound	Through	
		Upbound	Upbound	Downbnd
Total, all commodities	949	775	108	66
Total coal	1	---	---	1
1200 coal coke	1	---	---	1
Total petroleum and petroleum products	47	---	29	18
Subtotal petroleum products	47	---	29	18
2330 distillate fuel oil	24	---	19	5
2340 residual fuel oil	18	---	7	11
2350 lube oil & greases	2	---	---	2
2430 asphalt, tar & pitch	3	---	3	---
Total chemicals and related products	79	---	79	---
Subtotal other chemicals and related products	79	---	79	---
3276 metallic salts	79	---	79	---
Total crude materials, inedible except fuels	819	772	---	47
Subtotal soil, sand, gravel, rock and stone	783	737	---	47
4331 sand & gravel	737	737	---	---
4335 waterway improv. mat	47	---	---	47
Subtotal other non-metal. min.	36	36	---	---
4900 non-metal. min. nec	36	36	---	---
Total primary manufactured goods	3	3	---	---
Subtotal primary iron and steel products	3	3	---	---
5330 i&s plates & sheets	3	3	---	---
Ton-miles (x1000)	196	196	0	0
Tons All Traffic (x1000)	949			
Ton-miles All Traffic (x1000)	196			

CHICAGO RIVER, SOUTH BRANCH, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)

Section Included: Damen Avenue to Lake Street. Project Depth: 9 feet at low water stages.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	2,857	1993	2,368	1996	1,088	1999	1,680
1991	2,461	1994	2,844	1997	1,247		
1992	1,853	1995	1,226	1998	1,500		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Internal			
		Inbound	Outbound	Through	
		Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	1,680	580	152	841	108
Total coal	1	—	—	1	—
1200 coal coke	1	—	—	1	—
Total petroleum and petroleum products	47	—	—	18	29
Subtotal petroleum products	47	—	—	18	29
2330 distillate fuel oil	24	—	—	5	19
2340 residual fuel oil	18	—	—	11	7
2350 lube oil & greases	2	—	—	2	—
2430 asphalt, tar & pitch	3	—	—	—	3
Total chemicals and related products	79	—	—	—	79
Subtotal other chemicals and related products	79	—	—	—	79
3276 metallic salts	79	—	—	—	79
Total crude materials, inedible except fuels	1,549	580	150	819	—
Subtotal soil, sand, gravel, rock and stone	1,363	580	—	783	—
4331 sand & gravel	1,316	580	—	737	—
4335 waterway improv. mat	47	—	—	47	—
Subtotal iron ore and scrap	150	—	150	—	—
4420 iron & steel scrap	150	—	150	—	—
Subtotal other non-metal. min.	36	—	—	36	—
4900 non-metal. min. nec	36	—	—	36	—
Total primary manufactured goods	4	—	1	3	—
Subtotal primary iron and steel products	4	—	1	3	—
5330 i&s plates & sheets	3	—	—	3	—
5390 primary i&s nec	1	—	1	—	—
Ton-miles (x1000)	5,526	777	6	4,205	538
Tons All Traffic (x1000)	1,680				
Ton-miles All Traffic (x1000)	5,526				

LAKE CALUMET, IL (INCLUDED IN PORT OF CHICAGO)

Section Included: Entrance channel from the Calumet River to a harbor area at south end of lake with a channel extending northward for a distance of 3,000 feet and a width of 1,000 feet. Project Depth: 27 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	1,304	1993	1,489	1996	2,327	1999	1,986
1991	1,165	1994	2,068	1997	1,845		
1992	1,329	1995	1,913	1998	2,354		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign	Canadian	
		Imports	Imports	Exports
Total, all commodities	128	86	40	2
Total chemicals and related products	6	6	—	—
Subtotal other chemicals and related products	6	6	—	—
3219 other hydrocarbons	6	6	—	—
Total crude materials, inedible except fuels	108	66	40	2
Subtotal iron ore and scrap	42	—	40	2
4420 iron & steel scrap	42	—	40	2
Subtotal non-ferrous ores and scrap	66	66	—	—
4650 aluminum ore	66	66	—	—

LAKE CALUMET, IL (INCLUDED IN PORT OF CHICAGO)
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign	Canadian	
		Imports	Imports	Exports
Total primary manufactured goods	14	14	—	—
Subtotal primary iron and steel products	14	14	—	—
5330 i&s plates & sheets	14	14	—	—
Ton-miles (x1000)	128	86	40	2
Foreign & Canadian				

Commodity	Total	Domestic				
		Lakewise		Internal		
		Receipts	Shipments	Inbound Upbound	Outbound Downbnd	Intra Upbound
Total, all commodities	1,858	350	2	1,299	200	7
Total coal	48	—	—	47	2	—
1100 coal lignite	21	—	—	20	2	—
1200 coal coke	27	—	—	27	—	—
Total petroleum and petroleum products	1	1	—	—	—	—
Subtotal petroleum products	1	1	—	—	—	—
2330 distillate fuel oil	0	—	—	—	—	—
2340 residual fuel oil	1	1	—	—	—	—
Total chemicals and related products	178	—	—	30	149	—
Subtotal other chemicals and related products	178	—	—	30	149	—
3212 benzene & toluene	45	—	—	—	45	—
3219 other hydrocarbons	4	—	—	4	—	—
3220 alcohols	115	—	—	25	90	—
3260 organic comp. nec	13	—	—	—	13	—
Total crude materials, inedible except fuels	98	11	—	65	22	—
Subtotal soil, sand, gravel, rock and stone	25	11	—	6	8	—
4331 sand & gravel	10	—	—	6	3	—
4335 waterway improv. mat	15	11	—	—	5	—
Subtotal iron ore and scrap	70	—	—	57	13	—
4420 iron & steel scrap	70	—	—	57	13	—
Subtotal non-ferrous ores and scrap	1	—	—	1	—	—
4670 manganese ore	1	—	—	1	—	—
Subtotal slag	1	—	—	—	1	—
4860 slag	1	—	—	—	1	—
Total primary manufactured goods	1,490	338	2	1,120	23	7
Subtotal lime, cement and glass	317	149	—	160	—	7
5220 cement & concrete	317	149	—	160	—	7
Subtotal primary iron and steel products	1,122	189	2	910	22	—
5312 pig iron	220	—	—	220	—	—
5315 ferro alloys	5	—	—	5	—	—
5320 i&s primary forms	203	—	—	202	1	—
5330 i&s plates & sheets	499	186	2	294	19	—
5360 i&s bars & shapes	46	—	—	46	—	—
5370 i&s pipe & tube	3	1	—	3	—	—
5390 primary i&s nec	144	2	—	140	2	—
Subtotal primary non-ferrous metal products	51	—	—	50	2	—
5421 copper	1	—	—	1	—	—
5429 smelted prod. nec	28	—	—	28	—	—
5480 fab. metal products	22	—	—	20	2	—
Total food and farm products	42	—	—	37	5	—
Subtotal grain	2	—	—	—	2	—
6344 corn	2	—	—	—	2	—
Subtotal processed grain and animal feed	3	—	—	—	3	—
6782 animal feed, prep.	3	—	—	—	3	—
Subtotal other agricultural products	37	—	—	37	—	—
6861 sugar	37	—	—	37	—	—
Total all manufactured equipment, machinery and products	0	—	—	—	0	—
7110 machinery (not elec)	0	—	—	—	0	—
Ton-miles (x1000)	1,381	339	0	850	185	7
Domestic						
Tons All Traffic (x1000)	1,986					
Ton-miles All Traffic (x1000)	1,509					

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)

Section Included: Calumet Harbor and River to turning basin no. 5 (130th Street Bridge). Project Depth: 29 feet in approach channel, 28 feet in outer harbor anchorage area, 27 feet in river entrance channel to E. J. & E. R. R. Bridge, and 27 feet in river to and including Basin No. 5, (130th Street Bridge).

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	11,689	1993	13,706	1996	20,167	1999	15,895
1991	10,589	1994	18,554	1997	16,552		
1992	11,765	1995	18,225	1998	16,703		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign			Canadian			
		Imports*	Exports	Through Downbnd	Imports	Exports	Through Upbound	Through Downbnd
Total, all commodities	5,914	1,153	180	86	3,888	565	2	40
Total coal	57	---	---	---	---	57	---	---
1200 coal coke	57	---	---	---	---	57	---	---
Total petroleum and petroleum products	346	2	0	---	195	148	---	---
Subtotal petroleum products	346	2	0	---	195	148	---	---
2340 residual fuel oil	18	---	---	---	18	---	---	---
2350 lube oil & greases	0	0	0	---	---	---	---	---
2430 asphalt, tar & pitch	11	2	---	---	9	---	---	---
2540 petroleum coke	316	---	---	---	168	148	---	---
Total chemicals and related products	96	2	5	6	83	---	---	---
Subtotal fertilizers	83	---	0	---	83	---	---	---
3110 nitrogenous fert.	13	---	0	---	13	---	---	---
3130 potassic fert.	70	---	---	---	70	---	---	---
3190 fert. & mixes nec	0	---	0	---	---	---	---	---
Subtotal other chemicals and related products	12	2	5	6	0	---	---	---
3219 other hydrocarbons	7	1	0	6	---	---	---	---
3220 alcohols	0	---	0	---	---	---	---	---
3230 carboxylic acids	0	0	0	---	---	---	---	---
3240 nitrogen func. comp.	0	0	0	---	---	---	---	---
3250 organo - inorg. comp.	0	0	0	---	---	---	---	---
3260 organic comp. nec	0	0	0	---	---	---	---	---
3275 inorg. elem. oxides, & halogen salts	1	0	1	---	0	---	---	---
3276 metallic salts	0	---	0	---	---	---	---	---
3279 inorganic chem. nec	0	0	0	---	---	---	---	---
3282 pigments & paints	0	0	0	---	---	---	---	---
3283 coloring mat. nec	0	0	0	---	---	---	---	---
3284 medicines	0	0	0	---	---	---	---	---
3285 perfumes & cleansers	1	0	1	---	---	---	---	---
3286 plastics	1	0	1	---	---	---	---	---
3291 pesticides	0	0	0	---	---	---	---	---
3292 starches, gluten, glue	1	---	1	---	---	---	---	---
3297 chemical additives	0	0	0	---	---	---	---	---
3298 wood & resin chem.	0	---	0	---	---	---	---	---
3299 chem. products nec	1	0	1	---	---	---	---	---
Total crude materials, inedible except fuels	3,897	28	2	66	3,574	185	2	40
Subtotal forest products, wood and chips	2	0	2	---	---	---	---	---
4150 fuel wood	0	---	0	---	---	---	---	---
4170 wood in the rough	1	---	1	---	---	---	---	---
4189 lumber	0	0	0	---	---	---	---	---
4190 forest products nec	0	0	0	---	---	---	---	---
Subtotal pulp and waste paper	0	---	0	---	---	---	---	---
4225 pulp & waste paper	0	---	0	---	---	---	---	---
Subtotal soil, sand, gravel, rock and stone	144	---	0	---	46	98	---	---
4327 phosphate rock	60	---	---	---	---	60	---	---
4331 sand & gravel	84	---	0	---	46	38	---	---
Subtotal iron ore and scrap	2,665	22	---	---	2,601	---	2	40
4410 iron ore	2,504	---	---	---	2,504	---	---	---
4420 iron & steel scrap	161	22	---	---	97	---	2	40
Subtotal non-ferrous ores and scrap	67	---	1	66	---	---	---	---
4650 aluminum ore	66	---	---	66	---	---	---	---
4690 non-ferrous ores nec	1	---	1	---	---	---	---	---
Subtotal sulphur, clay and salt	297	---	0	---	267	30	---	---
4782 clay & refrac. mat.	297	---	0	---	267	30	---	---
Subtotal slag	68	---	---	---	10	58	---	---
4860 slag	68	---	---	---	10	58	---	---

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign			Canadian			
		Imports*	Exports	Through Downbnd	Imports	Exports	Through Upbound	Downbnd
Subtotal other non-metal. min.	656	6	0	---	650	---	---	---
4900 non-metal. min. nec	656	6	0	---	650	---	---	---
Total primary manufactured goods	1,155	1,102	4	14	36	---	---	---
Subtotal paper products	3	0	2	---	---	---	---	---
5120 paper & paperboard	0	0	0	---	---	---	---	---
5190 paper products nec	2	0	2	---	---	---	---	---
Subtotal lime, cement and glass	6	6	0	---	---	---	---	---
5240 glass & glass prod.	0	0	0	---	---	---	---	---
5290 misc. mineral prod.	6	6	0	---	---	---	---	---
Subtotal primary iron and steel products	1,144	1,094	0	14	35	---	---	---
5312 pig iron	17	---	0	---	17	---	---	---
5320 i&s primary forms	268	249	0	---	19	---	---	---
5330 i&s plates & sheets	817	803	0	14	---	---	---	---
5360 i&s bars & shapes	37	37	0	---	---	---	---	---
5370 i&s pipe & tube	4	4	0	---	---	---	---	---
5390 primary i&s nec	1	1	0	---	---	---	---	---
Subtotal primary non-ferrous metal products	3	2	1	---	0	---	---	---
5421 copper	0	0	0	---	0	---	---	---
5422 aluminum	0	0	0	---	---	---	---	---
5429 smelted prod. nec	0	0	0	---	---	---	---	---
5480 fab. metal products	3	2	1	---	---	---	---	---
Subtotal primary wood products	0	0	0	---	---	---	---	---
5540 primary wood prod.	0	0	0	---	---	---	---	---
Total food and farm products	335	1	160	---	---	174	---	---
Subtotal grain	258	---	111	---	---	147	---	---
6344 corn	258	---	111	---	---	147	---	---
Subtotal oilseeds	70	0	42	---	---	27	---	---
6522 soybeans	70	---	42	---	---	27	---	---
6590 oilseeds nec	0	0	0	---	---	---	---	---
Subtotal vegetable products	1	0	0	---	---	---	---	---
6653 vegetable oils	0	0	0	---	---	---	---	---
6654 vegetables & prod.	1	0	0	---	---	---	---	---
Subtotal processed grain and animal feed	5	0	5	---	---	---	---	---
6746 wheat flour	0	0	---	---	---	---	---	---
6747 grain mill products	0	0	0	---	---	---	---	---
6781 hay & fodder	0	---	0	---	---	---	---	---
6782 animal feed, prep.	5	---	5	---	---	---	---	---
Subtotal other agricultural products	1	0	1	---	---	---	---	---
6822 dairy products	0	0	---	---	---	---	---	---
6838 tallow, animal oils	0	---	0	---	---	---	---	---
6839 animals & prod. nec	0	---	0	---	---	---	---	---
6857 fruit & nuts nec	1	---	1	---	---	---	---	---
6858 fruit juices	0	0	0	---	---	---	---	---
6871 coffee	0	---	0	---	---	---	---	---
6872 cocoa beans	0	0	---	---	---	---	---	---
6885 alcoholic beverages	0	0	0	---	---	---	---	---
6889 food products nec	0	0	0	---	---	---	---	---
6899 farm products nec	0	---	0	---	---	---	---	---
Total all manufactured equipment, machinery and products	27	18	9	---	0	---	---	---
7110 machinery (not elec)	15	11	4	---	---	---	---	---
7120 electrical machinery	4	2	2	---	---	---	---	---
7210 vehicles & parts	3	2	1	---	0	---	---	---
7220 aircraft & parts	0	0	0	---	---	---	---	---
7230 ships & boats	0	0	0	---	---	---	---	---
7300 ordnance & access.	0	0	0	---	0	---	---	---
7400 manufac. wood prod.	0	0	0	---	---	---	---	---
7500 textile products	1	1	0	---	0	---	---	---
7600 rubber & plastic pr.	1	0	0	---	---	---	---	---
7900 manufac. prod. nec	4	2	1	---	---	---	---	---
Total unknown or not elsewhere classified	0	0	---	---	---	---	---	---
9900 unknown or nec	0	0	---	---	---	---	---	---
Ton-miles (x1000) Foreign & Canadian	6,552	1,153	180	516	3,888	565	12	238

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Lakewise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Total, all commodities	4,594	1,827	2,416	2	350
Total coal	2,322	—	2,322	—	—
1100 coal lignite	2,079	—	2,079	—	—
1200 coal coke	243	—	243	—	—
Total petroleum and petroleum products	89	15	73	—	1
Subtotal petroleum products	89	15	73	—	1
2330 distillate fuel oil	2	1	—	—	0
2340 residual fuel oil	29	4	25	—	1
2430 asphalt, tar & pitch	33	2	31	—	—
2540 petroleum coke	23	8	15	—	—
2990 petro. products nec	2	—	2	—	—
Total chemicals and related products	7	7	—	—	—
Subtotal other chemicals and related products	7	7	—	—	—
3276 metallic salts	7	7	—	—	—
Total crude materials, inedible except fuels	1,571	1,539	21	—	11
Subtotal soil, sand, gravel, rock and stone	1,018	1,008	—	—	11
4322 limestone	1,003	1,003	—	—	—
4335 waterway improv. mat	16	5	—	—	11
Subtotal iron ore and scrap	553	532	21	—	—
4410 iron ore	553	532	21	—	—
Total primary manufactured goods	605	266	—	2	338
Subtotal lime, cement and glass	360	211	—	—	149
5220 cement & concrete	360	211	—	—	149
Subtotal primary iron and steel products	245	55	—	2	189
5330 i&s plates & sheets	233	45	—	2	186
5370 i&s pipe & tube	1	—	—	—	1
5390 primary i&s nec	12	9	—	—	2
Total all manufactured equipment, machinery and products	0	0	—	—	—
7110 machinery (not elec)	0	0	—	—	—
Ton-miles (x1000)	19,883	5,691	12,124	9	2,059
Lakewise					

Commodity	Total	Internal					
		Inbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	5,387	2,931	465	920	1,068	1	2
Total coal	1,394	1,119	15	243	17	—	—
1100 coal lignite	1,054	1,033	7	6	8	—	—
1200 coal coke	340	87	8	237	9	—	—
Total petroleum and petroleum products	1,225	434	197	206	385	—	2
Subtotal petroleum products	1,225	434	197	206	385	—	2
2330 distillate fuel oil	61	—	2	16	42	—	—
2340 residual fuel oil	123	37	12	68	6	—	—
2350 lube oil & greases	36	—	—	1	34	—	—
2430 asphalt, tar & pitch	334	29	42	74	187	—	2
2540 petroleum coke	670	369	140	46	115	—	—
2990 petro. products nec	2	—	—	2	—	—	—
Total chemicals and related products	164	53	20	76	15	—	—
Subtotal fertilizers	65	34	—	23	7	—	—
3110 nitrogenous fert.	54	28	—	23	3	—	—
3120 phosphatic fert.	6	3	—	—	3	—	—
3130 potassic fert.	2	0	—	—	2	—	—
3190 fert. & mixes nec	3	3	—	—	—	—	—
Subtotal other chemicals and related products	99	19	20	53	8	—	—
3219 other hydrocarbons	19	—	—	19	—	—	—
3220 alcohols	5	—	5	—	—	—	—
3274 sodium hydroxide	17	—	—	17	—	—	—
3276 metallic salts	41	3	15	15	8	—	—
3279 inorganic chem. nec	18	16	—	2	—	—	—
Total crude materials, inedible except fuels	896	334	120	237	205	—	—
Subtotal forest products, wood and chips	17	17	—	—	—	—	—
4161 wood chips	7	7	—	—	—	—	—
4190 forest products nec	9	9	—	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	123	9	29	37	47	—	—
4322 limestone	31	3	—	28	—	—	—

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Internal					
		Inbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
4323 gypsum	9	—	—	9	—	—	—
4331 sand & gravel	35	6	29	—	—	—	—
4335 waterway improv. mat	47	—	—	—	47	—	—
Subtotal iron ore and scrap	214	10	86	97	21	—	—
4410 iron ore	115	3	34	77	—	—	—
4420 iron & steel scrap	99	7	52	19	21	—	—
Subtotal non-ferrous ores and scrap	59	59	—	—	—	—	—
4650 aluminum ore	2	2	—	—	—	—	—
4670 manganese ore	47	47	—	—	—	—	—
4690 non-ferrous ores nec	10	10	—	—	—	—	—
Subtotal sulphur, clay and salt	16	—	1	15	—	—	—
4782 clay & refrac. mat.	16	—	1	15	—	—	—
Subtotal slag	227	—	2	89	137	—	—
4860 slag	227	—	2	89	137	—	—
Subtotal other non-metal. min.	240	239	2	—	—	—	—
4900 non-metal. min. nec	240	239	2	—	—	—	—
Total primary manufactured goods	1,467	984	27	153	301	1	—
Subtotal lime, cement and glass	102	88	—	—	13	—	—
5220 cement & concrete	102	88	—	—	13	—	—
Subtotal primary iron and steel products	1,257	793	25	153	284	1	—
5312 pig iron	328	262	4	61	—	—	—
5315 ferro alloys	203	178	—	24	—	—	—
5320 i&s primary forms	61	13	—	48	—	—	—
5330 i&s plates & sheets	396	197	18	2	179	1	—
5360 i&s bars & shapes	21	20	—	2	—	—	—
5390 primary i&s nec	247	123	3	16	105	—	—
Subtotal primary non-ferrous metal products	108	102	2	—	3	—	—
5422 aluminum	6	6	—	—	—	—	—
5429 smelted prod. nec	44	44	—	—	—	—	—
5480 fab. metal products	58	52	2	—	3	—	—
Total food and farm products	231	3	85	—	143	—	—
Subtotal grain	148	—	44	—	104	—	—
6241 wheat	1	—	—	—	1	—	—
6344 corn	147	—	44	—	102	—	—
Subtotal oilseeds	78	—	39	—	39	—	—
6522 soybeans	78	—	39	—	39	—	—
Subtotal processed grain and animal feed	2	—	2	—	—	—	—
6782 animal feed, prep.	2	—	2	—	—	—	—
Subtotal other agricultural products	3	3	—	—	—	—	—
6865 molasses	3	3	—	—	—	—	—
Total all manufactured equipment, machinery and products	10	3	—	4	2	—	—
7110 machinery (not elec)	10	3	—	4	2	—	—
Ton-miles (x1000)	19,727	7,401	681	5,518	6,127	0	0
Internal							
Tons All Traffic (x1000)	15,895						
Ton-miles All Traffic (x1000)	46,162						

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

PORT OF CHICAGO, IL

Section Included: Chicago Harbor, Chicago River, Main and North Branch, Chicago River, South Branch, Chicago Sanitary and Ship Canal, Calumet-Sag Channel and Lake Calumet, IL, Calumet Harbor and River, IL and IN. Project Depth: See Chicago Harbor, Chicago River, Main and North Branch, Chicago River, South Branch, Chicago Sanitary and Ship Canal, Calumet-Sag Channel and Lake Calumet, IL, Calumet Harbor and River, IL and IN.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	22,541	1993	25,048	1996	27,886	1999	26,602
1991	21,767	1994	29,422	1997	24,868		
1992	22,154	1995	25,329	1998	25,979		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
Total, all commodities	5,914	1,239	180	3,928	567
Total coal	57	—	—	—	57
1200 coal coke	57	—	—	—	57

PORT OF CHICAGO, IL
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
Total petroleum and petroleum products	346	2	0	195	148
Subtotal petroleum products	346	2	0	195	148
2340 residual fuel oil	18	—	—	18	—
2350 lube oil & greases	0	0	0	—	—
2430 asphalt, tar & pitch	11	2	—	9	—
2540 petroleum coke	316	—	—	168	148
Total chemicals and related products	96	8	5	83	—
Subtotal fertilizers	83	—	0	83	—
3110 nitrogenous fert.	13	—	0	13	—
3130 potassic fert.	70	—	—	70	—
3190 fert. & mixes nec	0	—	0	—	—
Subtotal other chemicals and related products	12	8	5	0	—
3219 other hydrocarbons	7	7	0	—	—
3220 alcohols	0	—	0	—	—
3230 carboxylic acids	0	0	0	—	—
3240 nitrogen func. comp.	0	0	0	—	—
3250 organo - inorg. comp.	0	0	0	—	—
3260 organic comp. nec	0	0	0	—	—
3275 inorg. elem., oxides, & halogen salts	1	0	1	0	—
3276 metallic salts	0	—	0	—	—
3279 inorganic chem. nec	0	0	0	—	—
3282 pigments & paints	0	0	0	—	—
3283 coloring mat. nec	0	0	0	—	—
3284 medicines	0	0	0	—	—
3285 perfumes & cleansers	1	0	1	—	—
3286 plastics	1	0	1	—	—
3291 pesticides	0	0	0	—	—
3292 starches, gluten, glue	1	—	1	—	—
3297 chemical additives	0	0	0	—	—
3298 wood & resin chem.	0	—	0	—	—
3299 chem. products nec	1	0	1	—	—
Total crude materials, inedible except fuels	3,897	94	2	3,613	187
Subtotal forest products, wood and chips	2	0	2	—	—
4150 fuel wood	0	—	0	—	—
4170 wood in the rough	1	—	1	—	—
4189 lumber	0	0	0	—	—
4190 forest products nec	0	0	0	—	—
Subtotal pulp and waste paper	0	—	0	—	—
4225 pulp & waste paper	0	—	0	—	—
Subtotal soil, sand, gravel, rock and stone	144	—	0	46	98
4327 phosphate rock	60	—	—	—	60
4331 sand & gravel	84	—	0	46	38
Subtotal iron ore and scrap	2,665	22	—	2,641	2
4410 iron ore	2,504	—	—	2,504	—
4420 iron & steel scrap	161	22	—	137	2
Subtotal non-ferrous ores and scrap	67	66	1	—	—
4650 aluminum ore	66	66	—	—	—
4690 non-ferrous ores nec	1	—	1	—	—
Subtotal sulphur, clay and salt	297	—	0	267	30
4782 clay & refrac. mat.	297	—	0	267	30
Subtotal slag	68	—	—	10	58
4860 slag	68	—	—	10	58
Subtotal other non-metal. min.	656	6	0	650	—
4900 non-metal. min. nec	656	6	0	650	—
Total primary manufactured goods	1,155	1,116	4	36	—
Subtotal paper products	3	0	2	—	—
5120 paper & paperboard	0	0	0	—	—
5190 paper products nec	2	0	2	—	—
Subtotal lime, cement and glass	6	6	0	—	—
5240 glass & glass prod.	0	0	0	—	—
5290 misc. mineral prod.	6	6	0	—	—
Subtotal primary iron and steel products	1,144	1,108	0	35	—
5312 pig iron	17	—	0	17	—
5320 i&s primary forms	268	249	0	19	—
5330 i&s plates & sheets	817	817	0	—	—
5360 i&s bars & shapes	37	37	0	—	—
5370 i&s pipe & tube	4	4	0	—	—
5390 primary i&s nec	1	1	0	—	—
Subtotal primary non-ferrous metal products	3	2	1	0	—
5421 copper	0	0	0	0	—
5422 aluminum	0	0	0	—	—
5429 smelted prod. nec	0	0	0	—	—
5480 fab. metal products	3	2	1	—	—
Subtotal primary wood products	0	0	0	—	—
5540 primary wood prod.	0	0	0	—	—
Total food and farm products	335	1	160	—	174
Subtotal grain	258	—	111	—	147
6344 corn	258	—	111	—	147
Subtotal oilseeds	70	0	42	—	27
6522 soybeans	70	—	42	—	27
6590 oilseeds nec	0	0	0	—	—

PORT OF CHICAGO, IL
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
Subtotal vegetable products	1	0	0	---	---
6653 vegetable oils	0	0	0	---	---
6654 vegetables & prod.	1	0	0	---	---
Subtotal processed grain and animal feed	5	0	5	---	---
6746 wheat flour	0	0	---	---	---
6747 grain mill products	0	0	0	---	---
6781 hay & fodder	0	---	0	---	---
6782 animal feed, prep.	5	---	5	---	---
Subtotal other agricultural products	1	0	1	---	---
6822 dairy products	0	0	---	---	---
6838 tallow, animal oils	0	---	0	---	---
6839 animals & prod. nec	0	---	0	---	---
6857 fruit & nuts nec	1	---	1	---	---
6858 fruit juices	0	0	0	---	---
6871 coffee	0	---	0	---	---
6872 cocoa beans	0	0	---	---	---
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	27	18	9	0	---
7110 machinery (not elec)	15	11	4	---	---
7120 electrical machinery	4	2	2	---	---
7210 vehicles & parts	3	2	1	0	---
7220 aircraft & parts	0	0	0	---	---
7230 ships & boats	0	0	0	---	---
7300 ordnance & access.	0	0	0	---	---
7400 manufac. wood prod.	0	0	0	0	---
7500 textile products	1	1	0	---	---
7600 rubber & plastic pr.	1	0	0	0	---
7900 manufac. prod. nec	4	2	1	---	---
Total unknown or not elsewhere classified	0	0	---	---	---
9900 unknown or nec	0	0	---	---	---

Commodity	Total	Domestic				
		Lakewise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	20,689	2,177	2,417	10,269	3,396	2,430
Total coal	3,613	---	2,322	1,232	54	5
1100 coal lignite	3,195	---	2,079	1,104	12	---
1200 coal coke	418	---	243	129	42	5
Total petroleum and petroleum products	3,799	16	73	1,496	1,547	668
Subtotal petroleum products	3,799	16	73	1,496	1,547	668
2211 gasoline	20	---	---	20	---	---
2330 distillate fuel oil	727	2	---	262	349	113
2340 residual fuel oil	607	5	25	166	285	126
2350 lube oil & greases	210	---	---	204	5	1
2429 naphtha & solvents	37	---	---	26	7	3
2430 asphalt, tar & pitch	807	2	31	372	243	159
2540 petroleum coke	1,380	8	15	445	648	265
2990 petro. products nec	11	---	2	---	9	---
Total chemicals and related products	1,873	7	---	1,525	205	135
Subtotal fertilizers	48	---	---	48	---	---
3110 nitrogenous fert.	38	---	---	38	---	---
3120 phosphatic fert.	8	---	---	8	---	---
3130 potassic fert.	0	---	---	0	---	---
3190 fert. & mixes nec	3	---	---	3	---	---
Subtotal other chemicals and related products	1,824	7	---	1,477	205	135
3212 benzene & toluene	113	---	---	5	97	11
3219 other hydrocarbons	117	---	---	66	31	20
3220 alcohols	813	---	---	678	43	92
3240 nitrogen func. comp.	1	---	---	1	---	---
3260 organic comp. nec	59	---	---	46	13	---
3274 sodium hydroxide	529	---	---	529	---	---
3275 inorg. elem., oxides, & halogen salts	41	---	---	41	---	---
3276 metallic salts	136	7	---	96	20	12
3279 inorganic chem. nec	16	---	---	16	---	---
Total crude materials, inedible except fuels	6,442	1,550	21	2,365	894	1,613
Subtotal forest products, wood and chips	126	---	---	126	---	---
4161 wood chips	116	---	---	116	---	---
4190 forest products nec	9	---	---	9	---	---
Subtotal soil, sand, gravel, rock and stone	4,545	1,018	---	1,460	488	1,579
4322 limestone	1,021	1,003	---	18	---	---
4331 sand & gravel	3,446	---	---	1,383	488	1,574
4335 waterway improv. mat	79	16	---	59	---	5

PORT OF CHICAGO, IL
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Lakewise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Subtotal iron ore and scrap	1,004	532	21	68	384	---
4410 iron ore	590	532	21	3	34	---
4420 iron & steel scrap	414	---	---	65	350	---
Subtotal non-ferrous ores and scrap	63	---	---	63	---	---
4650 aluminum ore	2	---	---	2	---	---
4670 manganese ore	51	---	---	51	---	---
4690 non-ferrous ores nec	10	---	---	10	---	---
Subtotal sulphur, clay and salt	3	---	---	1	1	---
4782 clay & refrac. mat.	3	---	---	1	1	---
Subtotal slag	29	---	---	10	19	---
4860 slag	29	---	---	10	19	---
Subtotal other non-metal. min.	671	---	---	636	2	34
4900 non-metal. min. nec	671	---	---	636	2	34
Total primary manufactured goods	4,237	604	2	3,560	63	9
Subtotal lime, cement and glass	1,729	360	---	1,359	3	7
5210 lime	6	---	---	6	---	---
5220 cement & concrete	1,720	360	---	1,353	---	7
5240 glass & glass prod.	3	---	---	---	3	---
Subtotal primary iron and steel products	2,309	244	2	2,009	53	1
5312 pig iron	504	---	---	500	4	---
5315 ferro alloys	183	---	---	183	---	---
5320 i&s primary forms	219	---	---	217	1	---
5330 i&s plates & sheets	920	231	2	649	37	1
5360 i&s bars & shapes	150	---	---	150	---	---
5370 i&s pipe & tube	14	1	---	13	0	---
5390 primary i&s nec	319	12	---	296	11	---
Subtotal primary non-ferrous metal products	187	---	---	180	7	---
5421 copper	1	---	---	1	---	---
5422 aluminum	6	---	---	6	---	---
5429 smelted prod. nec	87	---	---	87	---	---
5480 fab. metal products	92	---	---	85	7	---
Subtotal primary wood products	12	---	---	12	---	---
5540 primary wood prod.	12	---	---	12	---	---
Total food and farm products	714	---	---	83	632	---
Subtotal grain	374	---	---	---	374	---
6241 wheat	21	---	---	---	21	---
6344 corn	353	---	---	---	353	---
Subtotal oilseeds	244	---	---	---	244	---
6522 soybeans	244	---	---	---	244	---
Subtotal processed grain and animal feed	13	---	---	---	13	---
6782 animal feed, prep.	13	---	---	---	13	---
Subtotal other agricultural products	83	---	---	83	---	---
6861 sugar	64	---	---	64	---	---
6865 molasses	19	---	---	19	---	---
Total all manufactured equipment, machinery and products	11	0	---	9	2	0
7110 machinery (not elec)	6	0	---	6	---	0
7400 manufac. wood prod.	3	---	---	3	---	---
7600 rubber & plastic pr.	2	---	---	---	2	---

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

INDIANA HARBOR, IN

Section Included: Approach channel, outer harbor and canal entrance channel to the first E. J. & E. R. R. Bridge: Indiana Harbor Canal, including the Calumet River Branch to Columbus Drive Bridge and the Lake George Branch to 0.2 miles past Indianapolis Blvd. Project Depth: 29 feet in approach channel, 28 feet in harbor basin, 27 feet in canal entrance channel, and 22 feet in remainder of canal to 0.2 miles past Indianapolis Blvd. on Lake George Branch and Columbus Drive on Calumet River Branch.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	14,673	1993	15,546	1996	16,893	1999	15,127
1991	13,767	1994	16,145	1997	16,524		
1992	15,326	1995	15,700	1998	14,910		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Domestic				
		Lakewise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	15,127	12,601	1,733	223	509	62
Total coal	152	18	63	63	8	---
1100 coal lignite	74	---	63	3	8	---
1200 coal coke	78	18	---	60	---	---

INDIANA HARBOR, IN
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Domestic				
		Lakewise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total petroleum and petroleum products	1,915	16	1,321	126	407	45
Subtotal petroleum products	1,915	16	1,321	126	407	45
2211 gasoline	484	—	484	—	—	—
2330 distillate fuel oil	246	11	130	16	62	27
2340 residual fuel oil	100	2	8	66	6	18
2350 lube oil & greases	36	—	—	1	34	—
2430 asphalt, tar & pitch	867	—	651	26	190	—
2540 petroleum coke	177	—	47	15	115	—
2990 petro. products nec	4	2	—	2	—	—
Total chemicals and related products	3	—	—	—	3	—
Subtotal fertilizers	3	—	—	—	3	—
3120 phosphatic fert.	3	—	—	—	3	—
Total crude materials, inedible except fuels	13,037	12,568	348	34	69	17
Subtotal soil, sand, gravel, rock and stone	1,190	1,181	—	9	—	—
4322 limestone	1,181	1,181	—	—	—	—
4323 gypsum	9	—	—	9	—	—
Subtotal iron ore and scrap	11,373	11,321	42	—	11	—
4410 iron ore	11,363	11,321	42	—	—	—
4420 iron & steel scrap	11	—	—	—	11	—
Subtotal non-ferrous ores and scrap	17	—	—	—	—	17
4650 aluminum ore	17	—	—	—	—	17
Subtotal sulphur, clay and salt	11	—	11	—	—	—
4782 clay & refrac. mat.	11	—	11	—	—	—
Subtotal slag	446	67	296	25	59	—
4860 slag	446	67	296	25	59	—
Total primary manufactured goods	21	—	—	—	21	—
Subtotal primary iron and steel products	21	—	—	—	21	—
5390 primary i&s nec	21	—	—	—	21	—

BURNS WATERWAY HARBOR, IN

Section Included: Approach channel, outer harbor, and two harbor arms. Project Depth: 30 feet in approach channel, 28 feet in outer harbor, and 27 feet in the east and west harbor arms.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	9,524	1993	9,315	1996	9,848	1999	7,456
1991	8,304	1994	9,344	1997	10,414		
1992	8,756	1995	10,275	1998	9,006		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Canadian Exports	Domestic				
			Total	Lakewise		Internal	
				Receipts	Shipments	Receipts	Shipments
Total, all commodities	7,456	28	7,428	6,386	142	517	383
Total coal	174	28	146	—	87	50	9
1100 coal lignite	73	—	73	—	69	3	—
1200 coal coke	101	28	73	—	18	47	9
Total petroleum and petroleum products	98	—	98	29	—	66	4
Subtotal petroleum products	98	—	98	29	—	66	4
2330 distillate fuel oil	26	—	26	26	—	—	—
2340 residual fuel oil	5	—	5	2	—	—	4
2430 asphalt, tar & pitch	49	—	49	1	—	48	—
2540 petroleum coke	18	—	18	—	—	18	—
Total chemicals and related products	93	—	93	13	—	76	4
Subtotal fertilizers	28	—	28	—	—	23	4
3110 nitrogenous fert.	26	—	26	—	—	23	3
3130 potassic fert.	2	—	2	—	—	—	2
Subtotal other chemicals and related products	65	—	65	13	—	53	—
3219 other hydrocarbons	19	—	19	—	—	19	—
3274 sodium hydroxide	17	—	17	—	—	17	—
3276 metallic salts	28	—	28	13	—	15	—
3279 inorganic chem. nec	2	—	2	—	—	2	—

BURNS WATERWAY HARBOR, IN
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Grand Total	Canadian Exports	Domestic				
			Total	Lakewise		Internal	
				Receipts	Shipments	Receipts	Shipments
Total crude materials, inedible except fuels	6,590	---	6,590	6,342	31	195	21
Subtotal soil, sand, gravel, rock and stone	708	---	708	680	---	28	---
4322 limestone	708	---	708	680	---	28	---
Subtotal iron ore and scrap	5,733	---	5,733	5,630	---	94	10
4410 iron ore	5,707	---	5,707	5,630	---	77	---
4420 iron & steel scrap	26	---	26	---	---	16	10
Subtotal sulphur, clay and salt	25	---	25	11	---	15	---
4782 clay & refrac. mat.	25	---	25	11	---	15	---
Subtotal slag	123	---	123	22	31	59	11
4860 slag	123	---	123	22	31	59	11
Total primary manufactured goods	356	---	356	2	24	129	202
Subtotal primary iron and steel products	353	---	353	2	24	129	199
5312 pig iron	61	---	61	---	---	61	---
5315 ferro alloys	1	---	1	---	---	1	---
5320 i&s primary forms	47	---	47	---	---	47	---
5330 i&s plates & sheets	144	---	144	2	13	2	128
5360 i&s bars & shapes	2	---	2	---	---	2	---
5370 i&s pipe & tube	1	---	1	---	1	---	---
5390 primary i&s nec	97	---	97	---	10	16	71
Subtotal primary non-ferrous metal products	3	---	3	---	---	---	3
5480 fab. metal products	3	---	3	---	---	---	3
Total food and farm products	141	---	141	---	---	---	141
Subtotal grain	102	---	102	---	---	---	102
6241 wheat	1	---	1	---	---	---	1
6344 corn	101	---	101	---	---	---	101
Subtotal oilseeds	39	---	39	---	---	---	39
6522 soybeans	39	---	39	---	---	---	39
Total all manufactured equipment, machinery and products	4	---	4	---	---	1	2
7110 machinery (not elec)	4	---	4	---	---	1	2

Other Harbors and Waterways 1999

Harbor or Waterway Project	Commodity	Thousand Short Tons
CHICAGO HARBOR, IL (INCLUDED IN PORT OF CHICAGO)	4335 waterway improv. mat	47
	Total Tons(x1000)	47
MICHIGAN CITY HARBOR, IN Non-project	No Commerce Reported	
BUFFINGTON HARBOR, IN	2330 distillate fuel oil	0
	2340 residual fuel oil	2
	4322 limestone	1,498
	4860 slag	226
	Total Tons(x1000)	1,727
GARY HARBOR, IN	1200 coal coke	131
	2540 petroleum coke	13
	4322 limestone	75
	4410 iron ore	8,310
	4420 iron & steel scrap	118
	4860 slag	93
	5220 cement & concrete	13
	5315 ferro alloys	23
	5320 i&s primary forms	1
	5330 i&s plates & sheets	269
	5390 primary i&s nec	15
	6344 corn	2
	7110 machinery (not elec)	3
	Total Tons(x1000)	9,065

TWO HARBORS (AGATE BAY), MN

Section Included: Entire harbor. Controlling Depth: 28 feet except for a 26 foot area along the east project line. Project Depth: 28 feet in inner basin and 30 feet near entrance.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	12,313	1993	10,711	1996	10,662	1999	11,872
1991	12,501	1994	9,288	1997	13,508		
1992	11,160	1995	8,265	1998	13,223		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Canadian	Domestic
		Exports	Lakewise Shipments
Total, all commodities	11,872	301	11,572
Total crude materials, inedible except fuels	11,872	301	11,572
Subtotal iron ore and scrap	11,872	301	11,572
4410 iron ore	11,675	301	11,374
4420 iron & steel scrap	198	—	198

DULUTH-SUPERIOR HARBOR, MN AND WI

Section Included: Superior Bay and its tributaries, St. Louis Bay and St. Louis River, and Allouez Bay. Controlling Depth: 32 feet in lake approaches, diminishing to a minimum of 20 feet in certain inner channels; there are numerous 1-2 foot shoals scattered in portions of the Duluth and Superior Harbor Basins. Project Depth: 32 feet in lake approaches; 27 feet in Duluth and Superior Harbor Basins, superior front channel, and in ore-channel routes through north and south channels to D. M. & I. R. R. Y. ore docks; 27 feet in Howards Bay and Allouez Bay; 23 feet in remaining portion of south, upper, and Minnesota channels to Hallet Dock No. 6; and 20 feet from thence to northerly end of Clough Island. Navigation Season: April 3 to January 11.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	40,766	1993	37,679	1996	41,398	1999	42,297
1991	37,716	1994	41,819	1997	41,929		
1992	39,304	1995	45,049	1998	42,443		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports*	Exports	Imports	Exports	Total	Lakewise	
						Receipts	Shipments	
Total, all commodities	42,297	83	3,231	637	8,918	29,427	3,267	26,161
Total coal	16,503	—	61	—	3,769	12,673	76	12,597
1100 coal lignite	16,488	—	61	—	3,769	12,658	76	12,582
1200 coal coke	15	—	—	—	—	15	—	15
Total petroleum and petroleum products	0	—	0	—	—	—	—	—
Subtotal petroleum products	0	—	0	—	—	—	—	—
2350 lube oil & greases	0	—	0	—	—	—	—	—
Total chemicals and related products	27	—	0	27	—	—	—	—
Subtotal other chemicals and related products	27	—	0	27	—	—	—	—
3276 metallic salts	27	—	—	27	—	—	—	—
3286 plastics	0	—	0	—	—	—	—	—
Total crude materials, inedible except fuels	19,641	2	46	86	3,182	16,325	2,984	13,341
Subtotal pulp and waste paper	2	2	—	—	—	—	—	—
4225 pulp & waste paper	2	2	—	—	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	2,965	—	—	—	—	2,965	2,939	27
4322 limestone	2,965	—	—	—	—	2,965	2,939	27
Subtotal iron ore and scrap	16,440	—	—	—	3,125	13,315	—	13,315
4410 iron ore	16,440	—	—	—	3,125	13,315	—	13,315
Subtotal sulphur, clay and salt	103	—	46	—	57	—	—	—
4782 clay & refrac. mat.	103	—	46	—	57	—	—	—
Subtotal slag	16	—	—	—	—	16	16	—
4860 slag	16	—	—	—	—	16	16	—
Subtotal other non-metal. min.	115	—	—	86	—	29	29	—
4900 non-metal. min. nec	115	—	—	86	—	29	29	—

DULUTH-SUPERIOR HARBOR, MN AND WI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports*	Exports	Imports	Exports	Total	Lakewise	
							Receipts	Shipments
Total primary manufactured goods	610	80	11	313	—	207	207	—
Subtotal lime, cement and glass	557	26	11	313	—	207	207	—
5220 cement & concrete	546	26	—	313	—	207	207	—
5290 misc. mineral prod.	11	—	11	—	—	—	—	—
Subtotal primary iron and steel products	54	54	—	—	—	—	—	—
5330 i&s plates & sheets	54	54	—	—	—	—	—	—
Subtotal primary non-ferrous metal products	0	—	—	0	—	—	—	—
5480 fab. metal products	0	—	—	0	—	—	—	—
Total food and farm products	5,513	—	3,112	211	1,967	222	—	222
Subtotal grain	3,770	—	2,383	211	953	222	—	222
6241 wheat	1,956	—	1,630	—	104	222	—	222
6344 corn	1,556	—	707	—	850	—	—	—
6443 barley & rye	258	—	47	211	—	—	—	—
Subtotal oilseeds	1,680	—	666	—	1,014	—	—	—
6522 soybeans	1,611	—	597	—	1,014	—	—	—
6590 oilseeds nec	69	—	69	—	—	—	—	—
Subtotal vegetable products	4	—	4	—	—	—	—	—
6654 vegetables & prod.	4	—	4	—	—	—	—	—
Subtotal processed grain and animal feed	59	—	59	—	—	—	—	—
6782 animal feed, prep.	59	—	59	—	—	—	—	—
Subtotal other agricultural products	0	—	0	—	—	—	—	—
6889 food products nec	0	—	0	—	—	—	—	—
Total all manufactured equipment, machinery and products	1	1	—	—	—	—	—	—
7110 machinery (not elec)	1	1	—	—	—	—	—	—
7900 manufac. prod. nec	0	0	—	—	—	—	—	—

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

TACONITE HARBOR, MN
NON-CORPS PROJECT

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	9,651	1993	9,716	1996	8,408	1999	8,366
1991	8,684	1994	9,510	1997	8,607		
1992	9,069	1995	9,247	1998	8,761		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Lakewise	
		Receipts	Shipments
Total, all commodities	8,366	644	7,722
Total coal	644	644	—
1100 coal lignite	644	644	—
Total crude materials, inedible except fuels	7,722	—	7,722
Subtotal iron ore and scrap	7,722	—	7,722
4410 iron ore	7,722	—	7,722

PRESQUE ISLE HARBOR, MI

Section Included: Entire harbor. Controlling and Project Depths: 30 feet in approach and 28 feet in basin. Navigation Season: March 31 to January 21.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	7,737	1993	9,672	1996	8,959	1999	9,531
1991	7,801	1994	10,191	1997	11,201		
1992	10,737	1995	10,099	1998	10,483		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Canadian	Domestic		
		Exports	Total	Receipts	Shipments
Total, all commodities	9,531	2,984	6,547	1,971	4,576
Total coal	1,734	—	1,734	1,734	—
1100 coal lignite	1,734	—	1,734	1,734	—
Total crude materials, inedible except fuels	7,796	2,984	4,812	236	4,576
Subtotal soil, sand, gravel, rock and stone	171	—	171	171	—
4322 limestone	171	—	171	171	—
Subtotal iron ore and scrap	7,625	2,984	4,641	66	4,576
4410 iron ore	7,625	2,984	4,641	66	4,576
Total all manufactured equipment, machinery and products	0	0	—	—	—
7230 ships & boats	0	0	—	—	—

MARQUETTE HARBOR, MI

Section Included: Entire harbor. Controlling Depth: 26 feet. Project Depth: 27 feet. Navigation Season: May 14 to November 22.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	626	1993	789	1996	1,598	1999	818
1991	634	1994	822	1997	689		
1992	454	1995	836	1998	869		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Canadian	Domestic
		Imports	Lakewise Receipts
Total, all commodities	818	120	698
Total coal	180	—	180
1100 coal lignite	180	—	180
Total crude materials, inedible except fuels	639	120	518
Subtotal soil, sand, gravel, rock and stone	534	15	518
4322 limestone	518	—	518
4331 sand & gravel	15	15	—
Subtotal iron ore and scrap	29	29	—
4410 iron ore	29	29	—
Subtotal sulphur, clay and salt	35	35	—
4782 clay & refrac. mat.	35	35	—
Subtotal slag	25	25	—
4860 slag	25	25	—
Subtotal other non-metal. min.	16	16	—
4900 non-metal. min. nec	16	16	—

DRUMMOND ISLAND, MI (INCLUDED IN ST. MARYS RIVER)

Section Included: Private loading dock on St. Marys River at Drummond Island, MI. Controlling Depths: 30 feet to and from Lake Huron; 27.0 feet to and from Lake Superior; 27.0 feet to Lake Superior; 23 feet at dock. Project Depth: See St. Marys River.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	758	1993	2,205	1996	1,682	1999	1,732
1991	786	1994	1,474	1997	1,560		
1992	1,496	1995	1,606	1998	1,582		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Canadian		Domestic
		Imports	Exports	Lakewise Shipments
Total, all commodities	1,732	65	293	1,374
Total crude materials, inedible except fuels	1,732	65	293	1,374
Subtotal soil, sand, gravel, rock and stone	1,721	53	293	1,374
4322 limestone	1,668	—	293	1,374
4331 sand & gravel	53	53	—	—
Subtotal sulphur, clay and salt	12	12	—	—
4782 clay & refrac. mat.	12	12	—	—

ST. MARYS RIVER, MI

Section Included: Entire length of St. Marys River from Lake Superior to Lake Huron, including American ports of Sault Ste. Marie, Raber, Lime Island, Drummond Island, and Detour, Michigan.

Name of Canal	Project Depth	Controlling Depth
Gros Cap Reefs	30.0	30.0
Point Iroquois Shoal Channel	30.0	29.4
Point Iroquois Anchorage areas	29.0	21.0
Birch Point Course	28.0-30.0	30.0
Brush Point Course	28.0-	30.0
Point Louise Channel	28.0	28.0
Point Aux Pins Course	28.0	28.0
Vidal Shoals Channel	28.0	28.0
Locks and Canal (see report for St. Marys Fall Canal)		
Bayfield Channel Course 1	28.0	28.0
Anchorage and maneuver area angle courses 1 and 2	28.5	28.5
Little Rapids Courses 2 and 3	27.0	27.0
Lake Nicolet Channel	29.0	29.0
Lake Nicolet Anchorage	28.0	28.0
Middle Neebish Channel	27.0-28.0	27.0
West Neebish Channel	27.5-28.5	27.5
Lake Munuscong Channel	28.0	28.0
Lime Island Channel	29.0	29.0
Detour Passage	30.0	29.0
Pipe Island Course	29.0	29.0
Watson Reef Course	30.0	30.0
Crab Island	30.0	30.0

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	71,865	1993	69,623	1996	78,939	1999	81,315
1991	68,055	1994	75,939	1997	83,822		
1992	71,223	1995	78,639	1998	82,235		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign			Canadian			
		Exports	Through		Imports	Exports	Through	
			Upbound	Downbnd			Upbound	Downbnd
Total, all commodities	22,559	5	83	3,231	290	293	3,437	15,219
Total coal	5,293	—	—	61	—	—	1,747	3,485
1100 coal lignite	5,284	—	—	61	—	—	1,746	3,477
1200 coal coke	9	—	—	—	—	—	1	8

ST. MARYS RIVER, MI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign			Canadian			
		Exports	Through		Imports	Exports	Through	
			Upbound	Downbnd			Upbound	Downbnd
Total petroleum and petroleum products	13	---	---	0	---	---	---	13
Subtotal petroleum products	13	---	---	0	---	---	---	13
2350 lube oil & greases	0	---	---	0	---	---	---	13
2430 asphalt, tar & pitch	13	---	---	---	---	---	---	---
Total chemicals and related products	338	2	---	0	---	---	45	290
Subtotal fertilizers	290	---	---	---	---	---	---	290
3110 nitrogenous fert.	41	---	---	---	---	---	---	41
3130 potassic fert.	249	---	---	0	---	---	45	249
Subtotal other chemicals and related products	47	2	---	0	---	---	---	0
3250 organo - inorg. comp.	1	1	---	---	---	---	---	---
3260 organic comp. nec	0	0	---	---	---	---	9	---
3274 sodium hydroxide	9	---	---	---	---	---	36	---
3276 metallic salts	36	---	---	---	---	---	---	0
3282 pigments & paints	0	---	---	---	---	---	---	---
3284 medicines	1	1	---	---	---	---	---	---
3285 perfumes & cleansers	0	0	---	---	---	---	---	---
3286 plastics	0	---	---	0	---	---	---	---
3292 starches, gluten, glue	0	0	---	---	---	---	---	---
Total crude materials, inedible except fuels	10,146	---	2	46	290	293	1,227	8,286
Subtotal forest products, wood and chips	2	---	---	---	2	---	---	---
4170 wood in the rough	2	---	---	---	2	---	---	---
Subtotal pulp and waste paper	2	---	2	---	---	---	---	---
4225 pulp & waste paper	2	---	2	---	---	---	---	---
Subtotal soil, sand, gravel, rock and stone	1,451	---	---	---	122	293	995	40
4322 limestone	1,289	---	---	---	---	293	995	---
4331 sand & gravel	162	---	---	---	122	---	---	40
Subtotal iron ore and scrap	6,597	---	---	---	---	---	31	6,566
4410 iron ore	6,469	---	---	---	---	---	29	6,441
4420 iron & steel scrap	127	---	---	---	---	---	2	125
Subtotal sulphur, clay and salt	1,733	---	---	46	55	---	---	1,632
4782 clay & refrac. mat.	1,733	---	---	46	55	---	---	1,632
Subtotal slag	59	---	---	---	0	---	28	31
4860 slag	59	---	---	---	0	---	28	31
Subtotal other non-metal. min.	301	---	---	---	111	---	173	18
4900 non-metal. min. nec	301	---	---	---	111	---	173	18
Total primary manufactured goods	1,505	0	80	11	---	---	418	996
Subtotal paper products	0	0	---	---	---	---	---	---
5120 paper & paperboard	0	0	---	---	---	---	---	---
Subtotal lime, cement and glass	1,451	0	26	11	---	---	418	996
5220 cement & concrete	1,440	---	26	---	---	---	418	996
5240 glass & glass prod.	0	0	---	---	---	---	---	---
5290 misc. mineral prod.	11	---	---	11	---	---	---	---
Subtotal primary iron and steel products	54	---	54	---	---	---	---	---
5330 i&s plates & sheets	54	---	54	---	---	---	---	0
Subtotal primary non-ferrous metal products	0	---	---	---	---	---	---	0
5421 copper	0	---	---	---	---	---	---	0
Total food and farm products	5,262	1	---	3,112	---	---	---	2,148
Subtotal grain	3,573	---	---	2,383	---	---	---	1,189
6241 wheat	1,845	---	---	1,630	---	---	---	215
6344 corn	1,558	---	---	707	---	---	---	852
6443 barley & rye	47	---	---	47	---	---	---	---
6445 oats	123	---	---	---	---	---	---	123
Subtotal oilseeds	1,625	---	---	666	---	---	---	959
6522 soybeans	1,556	---	---	597	---	---	---	959
6590 oilseeds nec	69	---	---	69	---	---	---	---
Subtotal vegetable products	4	0	---	4	---	---	---	---
6654 vegetables & prod.	4	0	---	4	---	---	---	---
Subtotal processed grain and animal feed	59	---	---	59	---	---	---	---
6782 animal feed, prep.	59	---	---	59	---	---	---	---
Subtotal other agricultural products	1	1	---	0	---	---	---	0
6835 fish, prepared	0	---	---	---	---	---	---	0
6839 animals & prod. nec	1	1	---	---	---	---	---	---
6858 fruit juices	0	0	---	---	---	---	---	---
6889 food products nec	0	---	---	0	---	---	---	0

ST. MARYS RIVER, MI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign			Canadian			
		Exports	Through		Imports	Exports	Through	
			Upbound	Downbnd			Upbound	Downbnd
Total all manufactured equipment, machinery and products	4	2	1	---	---	---	---	
7110 machinery (not elec)	1	0	1	---	---	---	---	
7120 electrical machinery	0	0	---	---	---	---	---	
7600 rubber & plastic pr.	0	0	---	---	---	---	---	
7900 manufac. prod. nec	2	2	0	---	---	---	---	
Ton-miles (x1000) Foreign & Canadian	1,332,945	250	5,315	206,755	17,139	8,068	151,239	944,180

Commodity	Total	Lakewise		
		Shipments	Through	
			Upbound	Downbnd
Total, all commodities	58,756	1,374	5,002	52,379
Total coal	11,822	---	1,217	10,605
1100 coal lignite	11,807	---	1,217	10,590
1200 coal coke	15	---	---	15
Total crude materials, inedible except fuels	46,504	1,374	3,578	41,552
Subtotal soil, sand, gravel, rock and stone	4,934	1,374	3,533	27
4322 limestone	4,934	1,374	3,533	27
Subtotal iron ore and scrap	41,525	---	---	41,525
4410 iron ore	41,328	---	---	41,328
4420 iron & steel scrap	198	---	---	198
Subtotal slag	16	---	16	---
4860 slag	16	---	16	---
Subtotal other non-metal. min.	29	---	29	---
4900 non-metal. min. nec	29	---	29	---
Total primary manufactured goods	207	---	207	---
Subtotal lime, cement and glass	207	---	207	---
5220 cement & concrete	207	---	207	---
Total food and farm products	222	---	---	222
Subtotal grain	222	---	---	222
6241 wheat	222	---	---	222
Ton-miles (x1000) Lakewise	3,716,224	43,816	320,154	3,352,254
Tons All Traffic (x1000)		81,315		
Ton-miles All Traffic (x1000)		5,049,169		

ST. MARYS FALLS CANAL, MI AND SAULT STE. MARIE, ONTARIO SHIP CANAL, CN (INCLUDED IN ST. MARYS RIVER)

Section Included: American and Canadian Navigation Canals and Locks at St. Marys Falls, Sault Ste. Marie, MI. and Ontario. Controlling Depths: Sabin Lock 23.1, Davis Lock 23.1, Macarthur Lock 31.0, Poe Lock 32.0 and 16.8 feet Canadian Canal. Project Depth: See St. Marys River.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	68,514	1993	65,351	1996	75,353	1999	76,675
1991	64,808	1994	72,657	1997	79,850		
1992	67,752	1995	75,113	1998	78,296		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Through		Through		Total	Lakewise	
		Upbound	Downbnd	Upbound	Downbnd		Through	
						Upbound	Downbnd	
Total, all commodities	76,675	83	3,231	858	14,725	57,778	5,399	52,379
Total coal	15,261	---	61	215	3,163	11,822	1,217	10,605
1100 coal lignite	15,246	---	61	215	3,163	11,807	1,217	10,590
1200 coal coke	15	---	---	---	---	15	---	15
Total petroleum and petroleum products	0	---	0	---	---	---	---	---
Subtotal petroleum products	0	---	0	---	---	---	---	---
2350 lube oil & greases	0	---	0	---	---	---	---	---

ST. MARYS FALLS CANAL, MI AND SAULT STE. MARIE, ONTARIO SHIP CANAL, CN (INCLUDED IN ST. MARYS RIVER)
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Through		Through		Total	Lakewise	
		Upbound	Downbnd	Upbound	Downbnd		Through	
						Upbound	Downbnd	
Total chemicals and related products	336	---	0	45	290	---	---	---
Subtotal fertilizers	290	---	---	---	290	---	---	---
3110 nitrogenous fert.	41	---	---	---	41	---	---	---
3130 potassic fert.	249	---	---	---	249	---	---	---
Subtotal other chemicals and related products	46	---	0	45	0	---	---	---
3274 sodium hydroxide	9	---	---	9	---	---	---	---
3276 metallic salts	36	---	---	36	---	---	---	---
3282 pigments & paints	0	---	---	---	0	---	---	---
3286 plastics	0	---	0	---	---	---	---	---
Total crude materials, inedible except fuels	53,944	2	46	242	8,127	45,527	3,975	41,552
Subtotal pulp and waste paper	2	2	---	---	---	---	---	---
4225 pulp & waste paper	2	2	---	---	---	---	---	---
Subtotal soil, sand, gravel, rock and stone	3,984	---	---	15	12	3,957	3,930	27
4322 limestone	3,972	---	---	15	---	3,957	3,930	27
4331 sand & gravel	12	---	---	---	12	---	---	---
Subtotal iron ore and scrap	47,964	---	---	29	6,410	41,525	---	41,525
4410 iron ore	47,766	---	---	29	6,410	41,328	---	41,328
4420 iron & steel scrap	198	---	---	---	---	198	---	198
Subtotal sulphur, clay and salt	1,733	---	46	---	1,687	---	---	---
4782 clay & refrac. mat.	1,733	---	46	---	1,687	---	---	---
Subtotal slag	41	---	---	25	---	16	16	---
4860 slag	41	---	---	25	---	16	16	---
Subtotal other non-metal. min.	220	---	---	173	18	29	29	---
4900 non-metal. min. nec	220	---	---	173	18	29	29	---
Total primary manufactured goods	1,650	80	11	357	996	207	207	---
Subtotal lime, cement and glass	1,597	26	11	357	996	207	207	---
5220 cement & concrete	1,586	26	---	357	996	207	207	---
5290 misc. mineral prod.	11	---	11	---	---	---	---	---
Subtotal primary iron and steel products	54	54	---	---	---	---	---	---
5330 i&s plates & sheets	54	54	---	---	---	---	---	---
Total food and farm products	5,483	---	3,112	---	2,148	222	---	222
Subtotal grain	3,795	---	2,383	---	1,189	222	---	222
6241 wheat	2,067	---	1,630	---	215	222	---	222
6344 corn	1,558	---	707	---	852	---	---	---
6443 barley & rye	47	---	47	---	---	---	---	---
6445 oats	123	---	---	---	123	---	---	---
Subtotal oilseeds	1,625	---	666	---	959	---	---	---
6522 soybeans	1,556	---	597	---	959	---	---	---
6590 oilseeds nec	69	---	69	---	---	---	---	---
Subtotal vegetable products	4	---	4	---	---	---	---	---
6654 vegetables & prod.	4	---	4	---	---	---	---	---
Subtotal processed grain and animal feed	59	---	59	---	---	---	---	---
6782 animal feed, prep.	59	---	59	---	---	---	---	---
Subtotal other agricultural products	0	---	0	---	0	---	---	---
6835 fish, prepared	0	---	---	---	0	---	---	---
6889 food products nec	0	---	0	---	0	---	---	---
Total all manufactured equipment, machinery and products	1	1	---	---	---	---	---	---
7110 machinery (not elec)	1	1	---	---	---	---	---	---
7900 manufac. prod. nec	0	0	---	---	---	---	---	---
Ton-miles (x1000)	4,596,227	5,232	203,524	54,063	717,986	3,615,423	315,548	3,299,875
Tons All Traffic (x1000)		76,675						
Ton-miles All Traffic (x1000)		4,596,227						

GRAYS REEF PASSAGE, MI

Section Included: East channel, 3,000 feet wide and about 2 miles long. Controlling and project depths: 25 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	8,214	1993	8,892	1996	8,152	1999	10,586
1991	8,265	1994	9,763	1997	8,677		
1992	8,826	1995	8,792	1998	10,489		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Canadian		Domestic				
		Through		Total	Lakewise		Internal	
		Upbound	Downbnd		Through		Upbound	Downbnd
				Upbound	Downbnd	Upbound	Downbnd	
Total, all commodities	10,586	32	11	10,544	3,581	6,940	20	3
Total coal	2,953	—	—	2,953	1,159	1,794	—	—
1100 coal lignite	2,821	—	—	2,821	1,030	1,791	—	—
1200 coal coke	132	—	—	132	129	3	—	—
Total petroleum and petroleum products	783	—	11	773	713	36	20	3
Subtotal petroleum products	783	—	11	773	713	36	20	3
2211 gasoline	321	—	11	310	293	17	—	—
2330 distillate fuel oil	78	—	—	78	62	11	5	—
2340 residual fuel oil	39	—	—	39	22	—	13	3
2350 lube oil & greases	2	—	—	2	—	—	2	—
2430 asphalt, tar & pitch	315	—	—	315	315	—	—	—
2540 petroleum coke	28	—	—	28	21	8	—	—
Total chemicals and related products	96	—	—	96	96	—	—	—
Subtotal other chemicals and related products	96	—	—	96	96	—	—	—
3276 metallic salts	96	—	—	96	96	—	—	—
Total crude materials, inedible except fuels	4,875	—	—	4,875	1,326	3,550	—	—
Subtotal soil, sand, gravel, rock and stone	4,285	—	—	4,285	1,268	3,016	—	—
4322 limestone	3,975	—	—	3,975	1,268	2,707	—	—
4323 gypsum	310	—	—	310	—	310	—	—
Subtotal iron ore and scrap	209	—	—	209	—	209	—	—
4410 iron ore	209	—	—	209	—	209	—	—
Subtotal slag	204	—	—	204	57	147	—	—
4860 slag	204	—	—	204	57	147	—	—
Subtotal other non-metal. min.	177	—	—	177	—	177	—	—
4900 non-metal. min. nec	177	—	—	177	—	177	—	—
Total primary manufactured goods	1,878	32	—	1,847	286	1,561	—	—
Subtotal lime, cement and glass	1,878	32	—	1,847	286	1,561	—	—
5220 cement & concrete	1,878	32	—	1,847	286	1,561	—	—
Ton-miles (x1000)	1,173,086	634	210	1,172,242	539,249	627,439	5,153	401
Tons All Traffic (x1000)		10,586						
Ton-miles All Traffic (x1000)		1,173,086						

CHARLEVOIX HARBOR, MI

Section Included: Entrance channel and entire area of Round Lake and Lake Charlevoix, including Advance, Boyne City and East Jordan. Controlling Depth: 18 feet. Project Depth: 23 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	1,508	1993	1,467	1996	1,666	1999	1,489
1991	1,312	1994	1,549	1997	1,529		
1992	1,353	1995	1,584	1998	1,281		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	
					Receipts	Shipments
Total, all commodities	1,489	11	32	1,447	353	1,094
Total coal	199	---	---	199	199	---
1100 coal lignite	199	---	---	199	199	---
Total petroleum and petroleum products	11	11	---	---	---	---
Subtotal petroleum products	11	11	---	---	---	---
2211 gasoline	11	11	---	---	---	---
Total crude materials, inedible except fuels	143	---	---	143	143	---
Subtotal soil, sand, gravel, rock and stone	83	---	---	83	83	---
4322 limestone	47	---	---	47	47	---
4323 gypsum	36	---	---	36	36	---
Subtotal slag	60	---	---	60	60	---
4860 slag	60	---	---	60	60	---
Total primary manufactured goods	1,118	---	32	1,086	2	1,084
Subtotal lime, cement and glass	1,118	---	32	1,086	2	1,084
5220 cement & concrete	1,118	---	32	1,086	2	1,084
Total unknown or not elsewhere classified	17	---	---	17	7	10
9900 unknown or nec	17	---	---	17	7	10

MANISTEE HARBOR, MI

Section Included: Entrance channel and entire area of Manistee Lake, including Filer City. Controlling Depths: 24 feet over the entrance bar, through the outer basin and in the channel between the piers; thence 23 feet in the river channel, narrowing to a minimum width of about 100 to 140 feet to Manistee Lake. Project Depths: 25 feet in the outer basin and 23 feet in the river to Manistee Lake. Navigation season: March 30 to December 31.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	535	1993	425	1996	460	1999	421
1991	372	1994	483	1997	477		
1992	456	1995	432	1998	435		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Canadian	Domestic		
		Exports	Total	Lakewise	
				Receipts	Shipments
Total, all commodities	421	9	412	399	13
Total coal	304	---	304	304	---
1100 coal lignite	289	---	289	289	---
1200 coal coke	15	---	15	15	---
Total chemicals and related products	22	9	13	---	13
Subtotal other chemicals and related products	22	9	13	---	13
3276 metallic salts	22	9	13	---	13
Total crude materials, inedible except fuels	96	---	96	96	---
Subtotal soil, sand, gravel, rock and stone	96	---	96	96	---
4322 limestone	96	---	96	96	---

LUDINGTON HARBOR, MI

Section Included: Entrance channel and entire area of Pere Marquette Lake. Controlling Depths: 26 feet in the outer entrance bar and 27 feet in the channel to Pere Marquette Lake. Project Depths: Outer entrance channel, 30 feet; inner entrance channel, 29.5 feet; channel to Pere Marquette Lake, 29 feet; north and south mooring basins, 18 feet. Navigation season: April 2 to December 31.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	1,291	1993	966	1996	1,237	1999	493
1991	929	1994	1,093	1997	864		
1992	846	1995	1,150	1998	1,075		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Imports	Exports	Imports	Exports	Total	Lakewise		Internal Shipments
							Receipts	Shipments	
Total, all commodities	493	21	5	40	17	410	188	135	86
Total chemicals and related products	233	---	3	---	17	214	---	127	86
Subtotal other chemicals and related products	233	---	3	---	17	214	---	127	86
3276 metallic salts	230	---	---	---	17	214	---	127	86
3279 inorganic chem. nec	3	---	3	---	---	---	---	---	---
Total crude materials, inedible except fuels	242	3	3	40	---	196	188	8	---
Subtotal soil, sand, gravel, rock and stone	202	---	---	11	---	191	183	8	---
4322 limestone	191	---	---	---	---	191	183	8	---
4331 sand & gravel	11	---	---	11	---	---	---	---	---
Subtotal sulphur, clay and salt	35	3	3	29	---	---	---	---	---
4782 clay & refrac. mat.	35	3	3	29	---	---	---	---	---
Subtotal slag	5	---	---	0	---	5	5	---	---
4860 slag	5	---	---	0	---	5	5	---	---
Total primary manufactured goods	17	17	---	---	---	---	---	---	---
Subtotal primary iron and steel products	17	17	---	---	---	---	---	---	---
5312 pig iron	17	17	---	---	---	---	---	---	---

MUSKEGON HARBOR, MI

Section Included: Entrance channel and entire area of Muskegon Lake. Controlling Depths: 29.0 feet through the outer portion of project and 27 feet in channel to Muskegon Lake. Project Depth: Varying from 29.0 feet at harbor entrance to 28 feet between breakwaters and 27 feet in inner channel. Navigation season: April 7 to December 31.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	1,802	1993	1,635	1996	2,172	1999	1,925
1991	1,358	1994	2,004	1997	2,061		
1992	1,562	1995	1,825	1998	1,936		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Canadian	Domestic
		Imports	Lakewise Receipts
Total, all commodities	1,925	160	1,765
Total coal	1,286	---	1,286
1100 coal lignite	1,286	---	1,286
Total chemicals and related products	1	1	---
Subtotal other chemicals and related products	1	1	---
3275 inorg. elem., oxides, & halogen salts	1	1	---

MUSKEGON HARBOR, MI
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Grand Total	Canadian	Domestic
		Imports	Lakewise Receipts
Total crude materials, inedible except fuels	504	159	345
Subtotal soil, sand, gravel, rock and stone	329	77	251
4322 limestone	251	—	251
4331 sand & gravel	77	77	—
Subtotal sulphur, clay and salt	56	56	—
4782 clay & refrac. mat.	56	56	—
Subtotal slag	120	26	94
4860 slag	120	26	94
Total primary manufactured goods	134	—	134
Subtotal lime, cement and glass	134	—	134
5220 cement & concrete	134	—	134

GRAND HAVEN HARBOR AND GRAND RIVER, MI

Section Included: Entire harbor, including Ferrysburg and Spring Lake; and Grand River from Grand Trunk RY. Bridge at Ferrysburg to Bass River about 15 miles. Controlling Depths: 22 feet in entrance channel; 21 feet to the mouth of the south channel; 21 feet to the sag; 20 feet to Grand Trunk RY. Bridge at Ferrysburg; 18 feet in the Turning Basin; 17 feet in channel to Spring Lake; thence 8 feet to mile 17.0 and 5 feet to the end of the project. Project Depths: 23 feet in entrance channel; 21 feet to Ferrysburg; 18 feet in channel to Spring Lake; 8 feet to mouth of Bass River. Navigation season: March 1 to December 31.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	1,052	1993	1,004	1996	971	1999	1,110
1991	792	1994	878	1997	988		
1992	871	1995	961	1998	1,014		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign	Canadian		Domestic		
		Imports	Imports	Exports	Total	Lakewise	
					Receipts	Shipments	
Total, all commodities	1,110	2	172	22	913	879	35
Total coal	168	—	—	—	168	168	—
1100 coal lignite	168	—	—	—	168	168	—
Total crude materials, inedible except fuels	780	2	172	22	584	550	33
Subtotal soil, sand, gravel, rock and stone	383	—	32	22	329	295	33
4322 limestone	295	—	—	—	295	295	—
4331 sand & gravel	88	—	32	22	33	—	33
Subtotal iron ore and scrap	29	—	29	—	—	—	—
4410 iron ore	29	—	29	—	—	—	—
Subtotal sulphur, clay and salt	94	2	92	—	—	—	—
4782 clay & refrac. mat.	94	2	92	—	—	—	—
Subtotal slag	255	—	—	—	255	255	—
4860 slag	255	—	—	—	255	255	—
Subtotal other non-metal. min.	19	—	19	—	—	—	—
4900 non-metal. min. nec	19	—	19	—	—	—	—
Total primary manufactured goods	161	—	—	—	161	160	1
Subtotal lime, cement and glass	161	—	—	—	161	160	1
5220 cement & concrete	161	—	—	—	161	160	1

HOLLAND HARBOR, MI

Section Included: Controlling Depths: Entrance channel - 23 feet decreasing to 20 feet at the outer end of the inner pier; thence a controlling depth of 19 feet for a channel through Lake Macatawa to the wharves in Holland, Michigan, a Turning Basin 18 feet deep, a channel in Black River 21 feet deep and a settling basin with a project depth of 17 feet above the Black River channel to the State Street Bridge. Navigation season: March 13 to December 31.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	391	1993	317	1996	407	1999	453
1991	262	1994	391	1997	398		
1992	316	1995	432	1998	476		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Lakewise	
		Receipts	Shipments
Total, all commodities	453	441	11
Total coal	170	170	—
1100 coal lignite	170	170	—
Total crude materials, inedible except fuels	283	272	11
Subtotal soil, sand, gravel, rock and stone	269	257	11
4322 limestone	257	257	—
4331 sand & gravel	11	—	11
Subtotal slag	14	14	—
4860 slag	14	14	—

ST. JOSEPH HARBOR, MI

Section Included: Entrance channel and lower portion of St. Joseph River to and including Benton Harbor Canal. Controlling Depth: 24 feet at entrance; 21 feet between entrance piers and in the river to the mouth of the Paw Paw River; with miscellaneous shoaling along the channel limits; 17 feet in the Turning Basin; and 16 feet at Benton Harbor Canal. Project Depths: 24 feet at entrance, and 21 feet in channel and river to the mouth of the Paw Paw River; 18 feet in turning basins and the Benton Harbor Canal. Navigation season: March 7 to December 31.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	445	1993	485	1996	447	1999	510
1991	418	1994	631	1997	609		
1992	543	1995	598	1998	747		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Lakewise
		Receipts
Total, all commodities	510	510
Total crude materials, inedible except fuels	277	277
Subtotal soil, sand, gravel, rock and stone	277	277
4322 limestone	277	277
Total primary manufactured goods	233	233
Subtotal lime, cement and glass	233	233
5220 cement & concrete	233	233

CHEBOYGAN HARBOR, MI

Section Included: Entrance channel and 3,500 feet of river. Controlling Depth: 21 feet to East First Street, including turning basin, and 18.5 feet to the State Road Bridge. Project Depth: 21 feet to East First Street; 18.5 feet to the State Road Bridge; 8.5 feet above the State Road Bridge to Lock in Cheboygan River; 21 feet in turning basin. Navigation season: 14 April to 9 December.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	134	1993	221	1996	276	1999	365
1991	115	1994	299	1997	282		
1992	110	1995	314	1998	308		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Lakewise
		Receipts
Total, all commodities	365	365
Total petroleum and petroleum products	365	365
Subtotal petroleum products	365	365
2211 gasoline	311	311

CHEBOYGAN HARBOR, MI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Lakewise Receipts
2330 distillate fuel oil	53	53
Total all manufactured equipment, machinery and products	0	0
7900 manufac. prod. nec	0	0

MILWAUKEE HARBOR, WI

Section Included: Lake Approach Channel, outer harbor, Milwaukee River to Buffalo Street, lower 2 miles of Menomonee River, lower 2 miles of Kinnickinnic River and South Menomonee and Burnham Canals. Controlling and project depths: 30 feet in Lake Approach Channel, 28 feet in the entrance channel and the south outer harbor, 21 feet in the north outer harbor, 27 feet in the Kinnickinnic River to the Chicago and North Western Railway Bridge at mile 1.0, thence 21 feet to South Kinnickinnic Avenue Bridge; 27 feet in Milwaukee River to the Chicago and North Western Railway Bridge at mile 0.21, thence 21 feet to East Buffalo Street Bridge; 21 feet in Menomonee River and South Menomonee and Burnham Canals.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	2,128	1993	2,496	1996	2,858	1999	3,531
1991	2,076	1994	2,641	1997	3,265		
1992	2,153	1995	3,262	1998	3,108		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			Internal Intraport
		Imports*	Exports	Imports	Exports	Total	Lakewise		
							Receipts	Shipments	
Total, all commodities	3,531	215	46	686	453	2,130	1,532	32	567
Total coal	1,154	---	---	---	---	1,154	578	10	566
1100 coal lignite	1,154	---	---	---	---	1,154	578	10	566
Total petroleum and petroleum products	152	---	---	---	---	152	152	---	---
Subtotal petroleum products	152	---	---	---	---	152	152	---	---
2430 asphalt, tar & pitch	141	---	---	---	---	141	141	---	---
2540 petroleum coke	10	---	---	---	---	10	10	---	---
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	1,198	14	13	669	307	195	190	5	---
Subtotal soil, sand, gravel, rock and stone	359	---	---	---	307	52	47	5	---
4322 limestone	14	---	---	---	---	14	14	---	---
4331 sand & gravel	340	---	---	---	307	33	33	---	---
4335 waterway improv. mat	5	---	---	---	---	5	---	5	---
Subtotal iron ore and scrap	21	---	---	---	---	21	21	---	---
4410 iron ore	21	---	---	---	---	21	21	---	---
Subtotal sulphur, clay and salt	13	---	13	---	---	---	---	---	---
4782 clay & refrac. mat.	13	---	13	---	---	---	---	---	---
Subtotal slag	1	---	---	---	1	---	---	---	---
4860 slag	1	---	---	---	1	---	---	---	---
Subtotal other non-metal. min.	805	14	---	669	---	123	123	---	---
4900 non-metal. min. nec	805	14	---	669	---	123	123	---	---

MILWAUKEE HARBOR, WI
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Imports*	Exports	Imports	Exports	Total	Lakewise		Internal Intraport
							Receipts	Shipments	
Total primary manufactured goods	845	200	—	17	—	628	612	16	—
Subtotal lime, cement and glass	628	—	—	—	—	628	612	16	—
5220 cement & concrete	628	—	—	—	—	628	612	16	—
Subtotal primary iron and steel products	216	199	—	17	—	—	—	—	—
5312 pig iron	17	—	—	17	—	—	—	—	—
5320 i&s primary forms	10	10	—	—	—	—	—	—	—
5330 i&s plates & sheets	166	166	—	—	—	—	—	—	—
5360 i&s bars & shapes	21	21	—	—	—	—	—	—	—
5370 i&s pipe & tube	1	1	—	—	—	—	—	—	—
5390 primary i&s nec	1	1	—	—	—	—	—	—	—
Subtotal primary non-ferrous metal products	1	1	—	—	—	—	—	—	—
5480 fab. metal products	1	1	—	—	—	—	—	—	—
Total food and farm products	178	—	32	—	146	—	—	—	—
Subtotal grain	139	—	32	—	107	—	—	—	—
6344 corn	139	—	32	—	107	—	—	—	—
Subtotal oilseeds	39	—	—	—	39	—	—	—	—
6522 soybeans	39	—	—	—	39	—	—	—	—
Total all manufactured equipment, machinery and products	3	2	0	—	—	1	—	1	0
7110 machinery (not elec)	2	1	0	—	—	1	—	1	0
7120 electrical machinery	1	1	0	—	—	—	—	—	—
7230 ships & boats	0	0	—	—	—	—	—	—	—
7600 rubber & plastic pr.	0	0	—	—	—	—	—	—	—
7900 manufac. prod. nec	0	0	—	—	—	—	—	—	—
Total unknown or not elsewhere classified	0	0	—	—	—	—	—	—	—
9900 unknown or nec	0	0	—	—	—	—	—	—	—

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

PORT WASHINGTON HARBOR, WI

Section Included: Outer harbor and interior basins. Controlling and project depths: 21 feet in the entrance channel and outer turning basin; 18 feet in inner basins.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	139	1993	84	1996	546	1999	409
1991	125	1994	335	1997	595		
1992	120	1995	390	1998	596		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Lakewise Receipts
Total, all commodities	409	409
Total coal	409	409
1100 coal lignite	409	409

MANITOWOC HARBOR, WI

Section Included: Outer harbor and lower 2 miles of river. Controlling and project depths: 21 feet in the Lake Approach Channel, the outer harbor, and in the river channel to the Third Railway Bridge.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	201	1993	300	1996	312	1999	379
1991	272	1994	330	1997	407		
1992	274	1995	373	1998	414		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Domestic		
		Lakewise		Internal
		Receipts	Shipments	Shipments
Total, all commodities	379	311	22	47
Total coal	74	74	---	---
1100 coal lignite	74	74	---	---
Total crude materials, inedible except fuels	69	---	22	47
Subtotal soil, sand, gravel, rock and stone	69	---	22	47
4331 sand & gravel	11	---	11	---
4335 waterway improv. mat	57	---	11	47
Total primary manufactured goods	237	237	---	---
Subtotal lime, cement and glass	237	237	---	---
5220 cement & concrete	237	237	---	---

GREEN BAY HARBOR, WI

Section Included: Outer channel, channel through the city of Green Bay and upper river channel to city of De Pere. Controlling and project depths: 26 feet in outer channel to Grassy Island; 24 feet in the entrance channel and river channel to a point 1,700 feet upstream from the C. & N. W. R. R. Bridge; 24 feet in the turning basin at the mouth of the East River; 20 feet in the turning basin above the C. & N. W. R. R. Bridge; 18 feet in the upper river channel and turning basin at the city of De Pere.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	1,677	1993	2,587	1996	2,176	1999	2,333
1991	2,068	1994	2,288	1997	2,130		
1992	2,431	1995	2,122	1998	2,353		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			Internal Upbound
		Imports	Exports	Imports	Lakewise		Internal	
					Receipts	Shipments		
Total, all commodities	2,333	80	14	352	1,887	1,747	4	136
Total coal	748	---	---	---	748	748	---	---
1100 coal lignite	745	---	---	---	745	745	---	---
1200 coal coke	3	---	---	---	3	3	---	---

GREEN BAY HARBOR, WI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			
		Imports	Exports	Imports	Total	Lakewise		Internal
					Receipts	Shipments	Intra Upbound	
Total petroleum and petroleum products	73	---	---	---	73	73	---	---
Subtotal petroleum products	73	---	---	---	73	73	---	---
2430 asphalt, tar & pitch	65	---	---	---	65	65	---	---
2540 petroleum coke	8	---	---	---	8	8	---	---
Total chemicals and related products	24	---	---	---	24	24	---	---
Subtotal other chemicals and related products	24	---	---	---	24	24	---	---
3276 metallic salts	24	---	---	---	24	24	---	---
Total crude materials, inedible except fuels	965	3	2	270	690	550	4	136
Subtotal pulp and waste paper	5	3	2	---	---	---	---	---
4225 pulp & waste paper	5	3	2	---	---	---	---	---
Subtotal soil, sand, gravel, rock and stone	648	---	---	---	648	508	4	136
4322 limestone	512	---	---	---	512	507	4	---
4323 gypsum	1	---	---	---	1	1	---	---
4331 sand & gravel	136	---	---	---	136	---	---	136
Subtotal other non-metal. min.	312	---	---	270	42	42	---	---
4900 non-metal. min. nec	312	---	---	270	42	42	---	---
Total primary manufactured goods	511	77	---	82	352	352	---	---
Subtotal lime, cement and glass	407	---	---	56	352	352	---	---
5220 cement & concrete	407	---	---	56	352	352	---	---
Subtotal primary iron and steel products	103	77	---	26	---	---	---	---
5312 pig iron	103	77	---	26	---	---	---	---
Subtotal primary non-ferrous metal products	0	0	---	---	---	---	---	---
5480 fab. metal products	0	0	---	---	---	---	---	---
Total food and farm products	13	---	13	---	---	---	---	---
Subtotal other agricultural products	13	---	13	---	---	---	---	---
6838 tallow, animal oils	13	---	13	---	---	---	---	---
Total all manufactured equipment, machinery and products	0	0	0	---	---	---	---	---
7110 machinery (not elec)	0	0	---	---	---	---	---	---
7600 rubber & plastic pr.	0	---	0	---	---	---	---	---

ALPENA HARBOR, MI

Section Included: Lower 4,000 feet of river and private harbors north of mouth of Thunder Bay River. Controlling Depth: 21 feet in the bay section; 17 feet in river; 15 feet in turning basin. Project Depths: channel 21 feet deep from that depth in Thunder Bay to a point 2,500 feet lakeward of the lighthouse; thence 18.5 feet in river narrowing to 100-foot width at a point 700 feet upstream from the lighthouse; thence 100 feet wide and 18.5 feet deep to the Second Ave. Bridge; thence 18.5 feet deep and 75 feet wide to the upper limits of the project; a turning basin 15 feet deep by 3.7 acres at the upper end of project; and a turning basin 18.5 feet deep at the river mouth. Navigation season: March 15 to December 17.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	2,255	1993	2,547	1996	2,345	1999	3,947
1991	2,284	1994	2,672	1997	2,901		
1992	2,486	1995	2,767	1998	3,078		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	
				Receipts	Shipments	Intra Upbound
Total, all commodities	3,947	104	816	3,026	673	2,353
Total coal	429	---	---	429	429	---
1100 coal lignite	231	---	---	231	231	---
1200 coal coke	198	---	---	198	198	---

ALPENA HARBOR, MI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	
					Receipts	Shipments
Total crude materials, inedible except fuels	1,022	104	674	244	244	---
Subtotal soil, sand, gravel, rock and stone	925	26	654	244	244	---
4322 limestone	875	---	631	244	244	---
4331 sand & gravel	49	26	23	---	---	---
Subtotal sulphur, clay and salt	65	65	---	---	---	---
4782 clay & refrac. mat.	65	65	---	---	---	---
Subtotal slag	19	---	19	---	---	---
4860 slag	19	---	19	---	---	---
Subtotal other non-metal. min.	14	14	---	---	---	---
4900 non-metal. min. nec	14	14	---	---	---	---
Total primary manufactured goods	2,496	---	143	2,353	---	2,353
Subtotal lime, cement and glass	2,496	---	143	2,353	---	2,353
5220 cement & concrete	2,496	---	143	2,353	---	2,353

SAGINAW RIVER, MI

Section Included: From the mouth of the river up to and including Saginaw, Michigan. Controlling Depths: 27 feet from the 25 foot contour in Saginaw Bay to 26 feet at the river mouth, 4 feet miscellaneous shoaling along channel limits; thence 24 feet to the Grand Trunk R.R. Bridge; thence 22 feet to the C&O R.R. Bridge in Saginaw, Michigan; thence 14 feet to the Holland Street Bridge; thence about 7 feet over a width of 100 feet upstream to Green Point (this section not maintained). Controlling depths in turning basins are: Essexville - 23 feet north side, 22 feet south side; Airport - 21 feet; Carrollton - 19 feet; Sixth Street - 20 feet; basin at 19 mile point - 15 feet. Project Depths: 27 feet from the deep water in Saginaw Bay to the river mouth; thence 26 feet for 0.4 mile; thence 25 feet to the Grand Trunk R.R. Bridge; thence 22 feet to the C&O R.R. Bridge in Saginaw; thence 16.5 feet to the upstream limits at Green Point. 20 and 25 feet in Essexville Turning Basin; 22 feet in the Airport turning basin; 20 feet in the Carrollton Turning Basin; 20 feet in the Sixth Street Turning Basin and 15 feet in the Turning Basin at the 19 mile point. Navigation season: March 24 to December 31.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	4,039	1993	5,234	1996	5,264	1999	5,290
1991	3,895	1994	5,119	1997	5,730		
1992	3,789	1995	4,720	1998	5,609		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign Imports	Canadian		Domestic			Internal Inbound Downbnd
			Imports	Exports	Total	Lakewise		
						Receipts	Shipments	
Total, all commodities	5,290	6	924	13	4,348	4,326	9	13
Total coal	535	---	---	---	535	535	---	---
1100 coal lignite	535	---	---	---	535	535	---	---
Total petroleum and petroleum products	149	---	17	---	132	111	9	13
Subtotal petroleum products	149	---	17	---	132	111	9	13
2211 gasoline	49	---	10	---	39	31	9	---
2330 distillate fuel oil	7	---	---	---	7	7	---	---
2340 residual fuel oil	94	---	7	---	86	74	---	13
Total chemicals and related products	157	6	56	---	96	96	---	---
Subtotal fertilizers	61	6	56	---	---	---	---	---
3110 nitrogenous fert.	23	---	23	---	---	---	---	---
3130 potassic fert.	38	6	33	---	---	---	---	---
Subtotal other chemicals and related products	96	---	---	---	96	96	---	---
3276 metallic salts	96	---	---	---	96	96	---	---
Total crude materials, inedible except fuels	4,007	---	584	13	3,410	3,410	1	---
Subtotal soil, sand, gravel, rock and stone	3,314	---	5	13	3,296	3,296	1	---
4310 building stone	0	---	0	---	---	---	---	---
4322 limestone	3,279	---	---	---	3,279	3,279	---	---
4323 gypsum	12	---	---	12	1	---	1	---
4327 phosphate rock	1	---	---	1	---	---	---	---
4331 sand & gravel	22	---	5	---	17	17	---	---
Subtotal sulphur, clay and salt	486	---	486	---	---	---	---	---
4782 clay & refrac. mat.	486	---	486	---	---	---	---	---
Subtotal slag	59	---	59	---	---	---	---	---
4860 slag	59	---	59	---	---	---	---	---
Subtotal other non-metal. min.	148	---	34	---	114	114	---	---
4900 non-metal. min. nec	148	---	34	---	114	114	---	---

SAGINAW RIVER, MI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Imports	Exports	Imports	Exports	Total	Lakewise		Internal
						Receipts	Shipments	Inbound Downbnd	
Total primary manufactured goods	441	---	---	267	---	174	174	---	---
Subtotal lime, cement and glass	441	---	---	267	---	174	174	---	---
5220 cement & concrete	441	---	---	267	---	174	174	---	---
Total all manufactured equipment, machinery and products	0	0	---	---	---	---	---	---	---
7120 electrical machinery	0	0	---	---	---	---	---	---	---

ST. CLAIR RIVER, MI

Section Included: Entire length of St. Clair River and Black River up to Washington Avenue in Port Huron. Controlling Depths: 27 to 30 feet in St. Clair River at Port Huron and 20 feet in Black River.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	75,438	1993	69,062	1996	78,546	1999	79,910
1991	66,003	1994	75,531	1997	79,777		
1992	68,613	1995	78,813	1998	84,238		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports*	Through		Imports	Exports	Through	
				Upbound	Downbnd			Upbound	Downbnd
Total, all commodities	29,608	6	19	1,693	3,492	593	449	9,454	13,903
Total coal	9,025	---	---	---	61	---	261	5,032	3,671
1100 coal lignite	8,965	---	---	---	61	---	231	5,032	3,642
1200 coal coke	60	---	---	---	---	---	30	---	30
Total petroleum and petroleum products	729	---	---	2	0	3	75	209	439
Subtotal crude petroleum	11	---	---	---	---	---	6	---	6
2100 crude petroleum	11	---	---	---	---	---	6	---	6
Subtotal petroleum products	718	---	---	2	0	3	70	209	434
2211 gasoline	10	---	---	---	---	---	---	10	---
2221 kerosene	21	---	---	---	---	---	10	---	10
2330 distillate fuel oil	20	---	---	---	---	3	---	3	14
2340 residual fuel oil	55	---	---	---	---	---	---	27	28
2350 lube oil & greases	97	---	---	0	0	---	14	0	83
2429 naphtha & solvents	26	---	---	---	---	---	---	---	26
2430 asphalt, tar & pitch	81	---	---	2	---	---	15	---	64
2540 petroleum coke	409	---	---	---	---	---	30	169	209
Total chemicals and related products	369	2	4	13	9	4	27	100	211
Subtotal fertilizers	175	---	---	6	0	3	5	5	157
3110 nitrogenous fert.	20	---	---	---	0	3	5	3	10
3130 potassic fert.	155	---	---	6	---	---	---	3	147
3190 fert. & mixes nec	0	---	---	---	0	---	---	---	---
Subtotal other chemicals and related products	195	2	4	8	9	1	22	94	54
3212 benzene & toluene	28	---	---	---	---	---	---	---	28
3219 other hydrocarbons	7	---	0	7	0	---	---	---	---
3220 alcohols	0	0	---	---	0	---	---	---	---

ST. CLAIR RIVER, MI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports*	Through		Imports	Exports	Through	
				Upbound	Downbnd			Upbound	Downbnd
3230 carboxylic acids	0	0	—	0	0	—	—	—	—
3240 nitrogen func. comp.	1	0	—	0	0	0	—	0	1
3250 organo - inorg. comp.	1	—	—	0	1	—	—	—	—
3260 organic comp. nec	27	0	0	0	0	—	13	—	13
3273 ammonia	2	—	—	—	—	1	—	1	0
3274 sodium hydroxide	66	0	—	—	—	—	—	66	—
3275 inorg. elem.,oxides, & halogen salts	6	0	3	0	1	1	—	1	1
3276 metallic salts	46	0	—	—	0	—	9	27	9
3279 inorganic chem. nec	3	0	—	0	3	—	—	—	—
3281 radioactive material	0	—	0	—	—	—	—	—	—
3282 pigments & paints	0	0	0	0	0	—	—	—	0
3283 coloring mat. nec	0	0	—	0	0	—	—	—	—
3284 medicines	1	0	0	0	1	—	—	0	—
3285 perfumes & cleansers	1	0	0	0	1	—	—	0	—
3286 plastics	4	1	1	0	1	0	—	0	1
3291 pesticides	0	—	—	0	0	—	—	—	—
3292 starches, gluten, glue	1	0	—	—	1	—	—	—	—
3297 chemical additives	0	—	0	0	0	—	—	—	—
3298 wood & resin chem.	0	0	—	—	0	—	—	—	—
3299 chem. products nec	1	0	0	0	1	—	—	0	—
Total crude materials, inedible except fuels	10,522	0	4	123	76	584	45	3,459	6,230
Subtotal forest products, wood and chips	5	0	0	0	2	2	—	2	0
4150 fuel wood	0	—	—	—	0	—	—	—	—
4170 wood in the rough	1	—	0	—	1	—	—	—	—
4189 lumber	3	—	—	0	0	—	—	2	0
4190 forest products nec	0	0	—	0	0	—	—	—	—
Subtotal pulp and waste paper	22	—	—	10	12	—	—	—	—
4225 pulp & waste paper	22	—	—	10	12	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	2,618	—	—	—	0	31	3	26	2,557
4322 limestone	2,062	—	—	—	—	—	—	—	2,062
4323 gypsum	32	—	—	—	—	—	—	—	32
4331 sand & gravel	524	—	—	—	0	31	3	26	463
Subtotal iron ore and scrap	4,982	0	—	22	—	—	—	1,862	3,098
4410 iron ore	4,918	—	—	—	—	—	—	1,835	3,083
4420 iron & steel scrap	64	0	—	22	—	—	—	27	15
Subtotal non-ferrous ores and scrap	71	—	4	66	1	—	—	—	—
4650 aluminum ore	70	—	4	66	—	—	—	—	—
4690 non-ferrous ores nec	1	—	—	—	1	—	—	—	—
Subtotal sulphur, clay and salt	644	—	0	6	62	465	42	—	69
4782 clay & refrac. mat.	644	—	0	6	62	465	42	—	69
Subtotal slag	62	—	—	—	—	6	—	55	1
4860 slag	62	—	—	—	—	6	—	55	1
Subtotal other non-metal. min.	2,119	—	—	20	0	80	—	1,513	506
4900 non-metal. min. nec	2,119	—	—	20	0	80	—	1,513	506

ST. CLAIR RIVER, MI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports*	Through		Imports	Exports	Through	
				Upbound	Downbnd			Upbound	Downbnd
Total primary manufactured goods	3,116	2	2	1,532	15	0	0	642	923
Subtotal paper products	3	---	0	0	2	---	---	0	---
5120 paper & paperboard	0	---	0	0	0	---	---	0	---
5190 paper products nec	2	---	0	0	2	---	---	---	---
Subtotal lime, cement and glass	1,498	0	1	32	11	---	---	536	919
5220 cement & concrete	1,480	---	---	26	---	---	---	536	918
5240 glass & glass prod.	0	0	0	0	0	---	---	0	---
5290 misc. mineral prod.	18	0	1	6	11	---	---	0	0
Subtotal primary iron and steel products	1,609	1	0	1,497	0	---	---	105	4
5312 pig iron	224	---	---	136	0	---	---	84	4
5320 i&s primary forms	278	---	0	260	0	---	---	19	---
5330 i&s plates & sheets	1,041	1	---	1,037	0	---	---	3	---
5360 i&s bars & shapes	58	0	0	57	0	---	---	---	---
5370 i&s pipe & tube	5	0	0	5	0	---	---	---	---
5390 primary i&s nec	2	0	---	2	0	---	---	---	---
Subtotal primary non-ferrous metal products	5	0	1	3	1	0	0	0	0
5421 copper	0	0	---	0	0	---	---	---	---
5422 aluminum	0	0	0	0	0	0	---	---	---
5429 smelted prod. nec	0	0	0	0	0	---	---	---	---
5480 fab. metal products	4	0	0	3	1	0	0	0	0
Subtotal primary wood products	1	0	---	0	0	---	---	0	1
5540 primary wood prod.	1	0	---	0	0	---	---	0	1
Total food and farm products	5,769	1	8	1	3,319	1	26	1	2,413
Subtotal fish	0	0	---	---	---	---	---	0	0
6134 fish (not shellfish)	0	---	---	---	---	---	---	---	0
6136 shellfish	0	0	---	---	---	---	---	0	---
Subtotal grain	3,924	---	---	---	2,527	---	18	---	1,379
6241 wheat	1,845	---	---	---	1,630	---	---	---	215
6344 corn	1,910	---	---	---	850	---	18	---	1,041
6443 barley & rye	47	---	---	---	47	---	---	---	---
6445 oats	123	---	---	---	---	---	---	---	123
Subtotal oilseeds	1,735	---	1	0	708	---	---	---	1,025
6522 soybeans	1,665	---	---	---	640	---	---	---	1,025
6590 oilseeds nec	70	---	1	0	69	---	---	---	0
Subtotal vegetable products	6	0	0	0	5	1	---	1	0
6653 vegetable oils	0	---	---	0	0	---	---	---	---
6654 vegetables & prod.	6	0	0	0	5	1	---	1	0
Subtotal processed grain and animal feed	71	0	7	0	64	---	---	0	---
6746 wheat flour	0	---	---	0	---	---	---	---	---
6747 grain mill products	0	0	0	0	0	---	---	---	---
6781 hay & fodder	0	---	---	---	0	---	---	---	---
6782 animal feed, prep.	70	0	7	---	64	---	---	0	---
Subtotal other agricultural products	33	1	0	0	15	0	8	0	8
6811 meat, fresh, frozen	0	0	---	---	---	---	---	---	---
6822 dairy products	0	---	0	0	---	---	---	---	---
6835 fish, prepared	0	---	---	---	---	---	---	---	0

ST. CLAIR RIVER, MI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports*	Through		Imports	Exports	Through	
				Upbound	Downbnd			Upbound	Downbnd
6838 tallow, animal oils	13	—	—	—	13	—	—	—	—
6839 animals & prod. nec	2	—	0	—	1	—	—	0	—
6857 fruit & nuts nec	1	0	0	—	1	0	—	0	0
6858 fruit juices	0	0	—	0	0	—	—	—	0
6865 molasses	16	—	—	—	—	—	8	—	8
6871 coffee	0	—	—	—	0	—	—	—	0
6872 cocoa beans	0	—	—	0	—	—	—	—	—
6885 alcoholic beverages	0	0	—	0	0	—	—	—	0
6888 water & ice	1	1	—	—	—	—	—	—	—
6889 food products nec	0	0	—	0	0	—	—	—	0
6899 farm products nec	0	—	—	—	0	—	—	—	—
Total all manufactured equipment, machinery and products	78	2	1	21	12	1	14	12	15
7110 machinery (not elec)	20	1	1	14	4	0	0	0	0
7120 electrical machinery	30	0	0	2	2	0	13	0	13
7210 vehicles & parts	3	0	0	2	1	0	0	0	0
7220 aircraft & parts	0	0	—	0	0	—	—	—	0
7230 ships & boats	15	—	0	0	0	0	2	11	2
7300 ordnance & access.	0	—	—	0	0	—	—	0	—
7400 manufac. wood prod.	1	0	0	0	0	—	—	—	0
7500 textile products	1	0	0	1	0	0	—	0	0
7600 rubber & plastic pr.	1	0	0	0	0	0	—	0	0
7900 manufac. prod. nec	7	0	0	3	4	1	—	0	0
Total unknown or not elsewhere classified	1	0	—	0	—	1	—	1	0
9900 unknown or nec	1	0	—	0	—	1	—	1	0
Ton-miles Foreign & Canadian (x1000)	1,136,839	212	718	66,021	136,186	6,300	16,496	368,707	542,199

Commodity	Total	Domestic					
		Receipts	Lakewise		Internal		
			Through		Through		
		Upbound	Downbnd	Upbound	Downbnd		
Total, all commodities	50,302	10,260	4,099	35,932	3	7	
Total coal	13,372	8,111	3,395	1,866	—	—	
1100 coal lignite	13,323	8,111	3,392	1,821	—	—	
1200 coal coke	49	—	3	45	—	—	
Total petroleum and petroleum products	543	55	137	341	3	7	
Subtotal petroleum products	543	55	137	341	3	7	
2211 gasoline	57	—	57	—	—	—	
2330 distillate fuel oil	53	28	15	5	—	5	
2340 residual fuel oil	88	27	58	—	3	—	
2350 lube oil & greases	2	—	—	—	—	2	
2430 asphalt, tar & pitch	315	—	—	315	—	—	
2540 petroleum coke	28	—	8	21	—	—	
Total crude materials, inedible except fuels	35,466	2,095	567	32,804	—	—	
Subtotal soil, sand, gravel, rock and stone	11,484	2,083	15	9,387	—	—	
4322 limestone	10,546	2,083	15	8,448	—	—	
4323 gypsum	731	—	—	731	—	—	
4331 sand & gravel	208	—	—	208	—	—	
Subtotal iron ore and scrap	23,307	—	37	23,270	—	—	
4410 iron ore	23,224	—	37	23,187	—	—	
4420 iron & steel scrap	83	—	—	83	—	—	

ST. CLAIR RIVER, MI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Receipts	Lakewise		Internal	
			Upbound	Downbnd	Upbound	Downbnd
Subtotal slag	295	---	147	148	---	---
4860 slag	295	---	147	148	---	---
Subtotal other non-metal. min.	380	12	368	---	---	---
4900 non-metal. min. nec	380	12	368	---	---	---
Total primary manufactured goods	698	---	---	698	---	---
Subtotal lime, cement and glass	698	---	---	698	---	---
5220 cement & concrete	698	---	---	698	---	---
Total food and farm products	222	---	---	222	---	---
Subtotal grain	222	---	---	222	---	---
6241 wheat	222	---	---	222	---	---
Ton-miles (x1000)	1,736,736	175,122	159,869	1,401,333	132	279
Domestic						
Tons All Traffic (x1000)	79,910					
Ton-miles All Traffic (x1000)	2,873,575					

*Includes 1 (x1000) tons of foreign inbound in-transits; Includes 3 (x1000) tons of foreign outbound in-transits.

PORT HURON, MI (INCLUDED IN ST. CLAIR RIVER)

Section Included: West bank of the St. Clair River from mouth of river to Grand Trunk Western Railroad Bridge and both banks of the Black River up to Washington Avenue in Port Huron, Michigan. Controlling Depths: from Lake St. Clair to Stag Island, 27.1 feet. In the Stag Island to Port Huron channel and the foot of Lake Huron channel, 27.3 feet and 30 feet respectively. In the Black River, 17 feet, for a width of 70 feet, from the mouth to 1,700 feet upstream of the Grand Trunk Western Railroad Bridge, and 15 feet for a width of 50 feet through the settling basin to Washington Avenue. Project Depths: In the St. Clair River, slopes from 30 feet at head to 27.5 feet at Grand Trunk Western Railroad Bridge. In the Black River, 20 feet from the mouth to the upper end of the settling basin, about 2,300 feet upstream from the Grand Trunk Western Railroad Bridge.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	1,429	1993	1,687	1996	581	1999	971
1991	1,609	1994	839	1997	588		
1992	1,652	1995	488	1998	843		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic
		Imports*	Exports*	Imports	Exports	Lakewise Receipts
Total, all commodities	971	6	19	34	431	480
Total coal	261	---	---	---	261	---
1100 coal lignite	231	---	---	---	231	---
1200 coal coke	30	---	---	---	30	---
Total petroleum and petroleum products	78	---	---	3	75	---
Subtotal crude petroleum	6	---	---	---	6	---
2100 crude petroleum	6	---	---	---	6	---
Subtotal petroleum products	72	---	---	3	70	---
2221 kerosene	10	---	---	---	10	---
2330 distillate fuel oil	3	---	---	3	---	---
2350 lube oil & greases	14	---	---	---	14	---
2430 asphalt, tar & pitch	15	---	---	---	15	---
2540 petroleum coke	30	---	---	---	30	---
Total chemicals and related products	37	2	4	4	27	---
Subtotal fertilizers	7	---	---	3	5	---
3110 nitrogenous fert.	7	---	---	3	5	---
Subtotal other chemicals and related products	30	2	4	1	22	---
3219 other hydrocarbons	0	---	0	---	---	---
3220 alcohols	0	0	---	---	---	---
3230 carboxylic acids	0	0	---	---	---	---
3240 nitrogen func. comp.	0	0	---	0	---	---
3260 organic comp. nec	14	0	0	---	13	---
3273 ammonia	1	---	---	1	---	---
3274 sodium hydroxide	0	0	---	---	---	---
3275 inorg. elem., oxides, & halogen salts	3	0	3	1	---	---
3276 metallic salts	9	0	---	---	9	---
3279 inorganic chem. nec	0	0	---	---	---	---
3281 radioactive material	0	---	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	2	1	1	0	---	---
3292 starches, gluten, glue	0	0	---	---	---	---
3297 chemical additives	0	---	0	---	---	---

PORT HURON, MI (INCLUDED IN ST. CLAIR RIVER)
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic
		Imports*	Exports*	Imports	Exports	Lakewise Receipts
3298 wood & resin chem.	0	0	—	—	—	—
3299 chem. products nec	0	0	0	—	—	—
Total crude materials, inedible except fuels	554	0	4	25	45	480
Subtotal forest products, wood and chips	2	0	0	2	—	—
4170 wood in the rough	0	—	0	—	—	—
4189 lumber	2	—	—	2	—	—
4190 forest products nec	0	0	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	489	—	—	17	3	468
4322 limestone	468	—	—	—	—	468
4331 sand & gravel	21	—	—	17	3	—
Subtotal iron ore and scrap	0	0	—	—	—	—
4420 iron & steel scrap	0	0	—	—	—	—
Subtotal non-ferrous ores and scrap	4	—	4	—	—	—
4650 aluminum ore	4	—	4	—	—	—
Subtotal sulphur, clay and salt	42	—	0	—	42	—
4782 clay & refrac. mat.	42	—	0	—	42	—
Subtotal slag	6	—	—	6	—	—
4860 slag	6	—	—	6	—	—
Subtotal other non-metal. min.	12	—	—	—	—	12
4900 non-metal. min. nec	12	—	—	—	—	12
Total primary manufactured goods	4	2	2	0	0	—
Subtotal paper products	0	—	0	—	—	—
5120 paper & paperboard	0	—	0	—	—	—
5190 paper products nec	0	—	0	—	—	—
Subtotal lime, cement and glass	1	0	1	—	—	—
5240 glass & glass prod.	0	0	0	—	—	—
5290 misc. mineral prod.	1	0	1	—	—	—
Subtotal primary iron and steel products	2	1	0	—	—	—
5320 i&s primary forms	0	—	0	—	—	—
5330 i&s plates & sheets	1	1	—	—	—	—
5360 i&s bars & shapes	0	0	0	—	—	—
5370 i&s pipe & tube	0	0	0	—	—	—
5390 primary i&s nec	0	0	—	—	—	—
Subtotal primary non-ferrous metal products	1	0	1	0	0	—
5421 copper	0	0	—	—	—	—
5422 aluminum	0	0	0	0	—	—
5429 smelted prod. nec	0	0	0	—	—	—
5480 fab. metal products	1	0	0	0	0	—
Subtotal primary wood products	0	0	—	—	—	—
5540 primary wood prod.	0	0	—	—	—	—
Total food and farm products	18	1	8	1	8	—
Subtotal fish	0	0	—	—	—	—
6136 shellfish	0	0	—	—	—	—
Subtotal oilseeds	1	—	1	—	—	—
6590 oilseeds nec	1	—	1	—	—	—
Subtotal vegetable products	1	0	0	1	—	—
6654 vegetables & prod.	1	0	0	1	—	—
Subtotal processed grain and animal feed	7	0	7	—	—	—
6747 grain mill products	0	0	0	—	—	—
6782 animal feed, prep.	7	0	7	—	—	—
Subtotal other agricultural products	9	1	0	0	8	—
6811 meat, fresh, frozen	0	0	—	—	—	—
6822 dairy products	0	—	0	—	—	—
6839 animals & prod. nec	0	—	0	—	—	—
6857 fruit & nuts nec	0	0	0	0	—	—
6858 fruit juices	0	0	—	—	—	—
6865 molasses	8	—	—	—	8	—
6885 alcoholic beverages	0	0	—	—	—	—
6888 water & ice	1	1	—	—	—	—
6889 food products nec	0	0	—	—	—	—
Total all manufactured equipment, machinery and products	19	2	1	1	14	—
7110 machinery (not elec)	2	1	1	0	0	—
7120 electrical machinery	13	0	0	0	13	—
7210 vehicles & parts	1	0	0	0	0	—
7220 aircraft & parts	0	0	—	—	—	—
7230 ships & boats	2	—	0	0	2	—
7400 manufac. wood prod.	0	0	0	—	—	—
7500 textile products	0	0	0	0	—	—
7600 rubber & plastic pr.	0	0	0	0	—	—
7900 manufac. prod. nec	1	0	0	1	—	—
Total unknown or not elsewhere classified	1	0	—	1	—	—
9900 unknown or nec	1	0	—	1	—	—

*Includes 1 (x1000) tons of foreign inbound in-transits; Includes 3 (x1000) tons of foreign outbound in-transits.

MARYSVILLE, MI (INCLUDED IN ST. CLAIR RIVER)

Section Included: West bank of St. Clair River at Marysville, MI. Controlling Depth: 27.4 feet. Project Depth: at low-water datum; 27.4 feet to and from Lake Huron; 27.1 feet downbound to Lake St. Clair.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	615	1993	736	1996	1,068	1999	1,357
1991	518	1994	1,175	1997	1,142		
1992	640	1995	889	1998	1,282		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Canadian		Domestic
		Imports	Exports	Lakewise Receipts
Total, all commodities	1,357	559	18	780
Total coal	123	---	---	123
1100 coal lignite	123	---	---	123
Total petroleum and petroleum products	27	---	---	27
Subtotal petroleum products	27	---	---	27
2340 residual fuel oil	27	---	---	27
Total crude materials, inedible except fuels	1,189	559	---	630
Subtotal soil, sand, gravel, rock and stone	644	14	---	630
4322 limestone	630	---	---	630
4331 sand & gravel	14	14	---	---
Subtotal sulphur, clay and salt	465	465	---	---
4782 clay & refrac. mat.	465	465	---	---
Subtotal other non-metal. min.	80	80	---	---
4900 non-metal. min. nec	80	80	---	---
Total food and farm products	18	---	18	---
Subtotal grain	18	---	18	---
6344 corn	18	---	18	---

ST. CLAIR, MI (INCLUDED IN ST. CLAIR RIVER)

Section Included: West bank of St. Clair River at St. Clair, MI Controlling Depth: 27.3 feet. Project Depth: 27.3 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	4,889	1993	5,039	1996	5,427	1999	5,326
1991	4,778	1994	5,887	1997	5,699		
1992	4,666	1995	5,028	1998	5,533		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Lakewise Receipts
Total, all commodities	5,326	5,326
Total coal	5,298	5,298
1100 coal lignite	5,298	5,298
Total petroleum and petroleum products	28	28
Subtotal petroleum products	28	28
2330 distillate fuel oil	28	28

MARINE CITY, MI (INCLUDED IN ST. CLAIR RIVER)

Section Included: West bank of St. Clair River at Marine City, MI, 25.3 miles upbound to Lake Huron; 19.2 miles downbound to Lake St. Clair, MI
 Controlling Depth: 27 feet. Project Depth(at low water datum): 27.3 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	4,497	1993	3,454	1996	4,116	1999	3,652
1991	3,896	1994	3,572	1997	4,001		
1992	3,174	1995	3,850	1998	4,252		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Lakewise Receipts
Total, all commodities	3,652	3,652
Total coal	2,690	2,690
1100 coal lignite	2,690	2,690
Total crude materials, inedible except fuels	963	963
Subtotal soil, sand, gravel, rock and stone	963	963
4322 limestone	963	963

CHANNELS IN LAKE ST. CLAIR

Section Included: Improved ship channels connecting St. Clair River and Detroit River across Lake St. Clair, entrance channels to mouth of Clinton River and the Canadian channel to the mouth of the Thames River. Controlling Depths: 27.0 feet in the main channel with 8 feet in channel to Clinton River. Project Depths: 27.5 feet in main channel and 8 feet in Clinton River channel.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	64,034	1993	56,982	1996	67,111	1999	67,912
1991	54,232	1994	63,963	1997	68,211		
1992	58,131	1995	68,555	1998	71,970		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Through		Through	
		Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	27,381	1,699	3,511	9,360	12,811
Total coal	8,503	—	61	5,032	3,411
1100 coal lignite	8,503	—	61	5,032	3,411
Total petroleum and petroleum products	456	2	0	89	364
Subtotal petroleum products	456	2	0	89	364
2211 gasoline	10	—	—	10	—
2330 distillate fuel oil	14	—	—	—	14
2340 residual fuel oil	42	—	—	14	28
2350 lube oil & greases	69	0	0	0	69
2429 naphtha & solvents	26	—	—	—	26
2430 asphalt, tar & pitch	51	2	—	—	49
2540 petroleum coke	244	—	—	65	179
Total chemicals and related products	307	15	13	96	184
Subtotal fertilizers	160	6	0	3	152
3110 nitrogenous fert.	5	—	0	—	5
3130 potassic fert.	155	6	—	3	147
3190 fert. & mixes nec	0	—	0	—	—
Subtotal other chemicals and related products	147	9	13	93	31
3212 benzene & toluene	28	—	—	—	28
3219 other hydrocarbons	7	7	0	—	—
3220 alcohols	0	0	0	—	—
3230 carboxylic acids	0	0	0	—	—
3240 nitrogen func. comp.	1	0	0	—	1
3250 organo - inorg. comp.	1	0	1	—	—
3260 organic comp. nec	0	0	0	—	—
3273 ammonia	0	—	—	—	0
3274 sodium hydroxide	66	0	—	66	—
3275 inorg. elem., oxides, & halogen salts	5	0	4	—	1
3276 metallic salts	28	0	0	27	0
3279 inorganic chem. nec	3	0	3	—	—
3281 radioactive material	0	—	0	—	—
3282 pigments & paints	0	0	0	—	0
3283 coloring mat. nec	0	0	0	—	—
3284 medicines	1	0	1	0	—
3285 perfumes & cleansers	1	0	1	0	—
3286 plastics	4	1	2	0	1
3291 pesticides	0	0	0	—	—
3292 starches, gluten, glue	1	0	1	—	—
3297 chemical additives	0	0	0	—	—

CHANNELS IN LAKE ST. CLAIR
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Through		Through	
		Upbound	Downbnd	Upbound	Downbnd
3298 wood & resin chem.	0	0	0	—	—
3299 chem. products nec	1	0	1	0	—
Total crude materials, inedible except fuels	9,199	124	80	3,490	5,506
Subtotal forest products, wood and chips	2	0	2	0	0
4150 fuel wood	0	—	0	—	—
4170 wood in the rough	1	—	1	—	—
4189 lumber	0	0	0	0	0
4190 forest products nec	0	0	0	—	—
Subtotal pulp and waste paper	22	10	12	—	—
4225 pulp & waste paper	22	10	12	—	—
Subtotal soil, sand, gravel, rock and stone	1,877	—	0	2	1,875
4322 limestone	1,482	—	—	—	1,482
4323 gypsum	20	—	—	—	20
4331 sand & gravel	375	—	0	2	373
Subtotal iron ore and scrap	4,982	22	—	1,862	3,098
4410 iron ore	4,918	—	—	1,835	3,083
4420 iron & steel scrap	64	22	—	27	15
Subtotal non-ferrous ores and scrap	71	66	5	—	—
4650 aluminum ore	70	66	4	—	—
4690 non-ferrous ores nec	1	—	1	—	—
Subtotal sulphur, clay and salt	95	6	62	—	27
4782 clay & refrac. mat.	95	6	62	—	27
Subtotal slag	50	—	—	50	1
4860 slag	50	—	—	50	1
Subtotal other non-metal. min.	2,102	20	0	1,576	506
4900 non-metal. min. nec	2,102	20	0	1,576	506
Total primary manufactured goods	3,115	1,534	17	642	923
Subtotal paper products	3	0	2	0	—
5120 paper & paperboard	0	0	0	0	—
5190 paper products nec	2	0	2	—	—
Subtotal lime, cement and glass	1,498	32	12	536	919
5220 cement & concrete	1,480	26	—	536	918
5240 glass & glass prod.	0	0	0	0	—
5290 misc. mineral prod.	18	6	12	0	0
Subtotal primary iron and steel products	1,609	1,498	1	105	4
5312 pig iron	224	136	0	84	4
5320 i&s primary forms	278	260	0	19	—
5330 i&s plates & sheets	1,041	1,038	0	3	—
5360 i&s bars & shapes	58	58	0	—	—
5370 i&s pipe & tube	5	5	0	—	—
5390 primary i&s nec	2	2	0	—	—
Subtotal primary non-ferrous metal products	5	3	2	0	0
5421 copper	0	0	0	—	—
5422 aluminum	0	0	0	0	—
5429 smelted prod. nec	0	0	0	—	—
5480 fab. metal products	4	3	1	0	0
Subtotal primary wood products	1	0	0	0	1
5540 primary wood prod.	1	0	0	0	1
Total food and farm products	5,752	1	3,327	0	2,423
Subtotal fish	0	0	—	0	0
6134 fish (not shellfish)	0	—	—	—	0
6136 shellfish	0	0	—	0	—
Subtotal grain	3,924	—	2,527	—	1,397
6241 wheat	1,845	—	1,630	—	215
6344 corn	1,910	—	850	—	1,059
6443 barley & rye	47	—	47	—	—
6445 oats	123	—	—	—	123
Subtotal oilseeds	1,735	0	710	—	1,025
6522 soybeans	1,665	—	640	—	1,025
6590 oilseeds nec	70	0	70	—	0
Subtotal vegetable products	5	0	5	0	0
6653 vegetable oils	0	0	0	—	—
6654 vegetables & prod.	5	0	5	0	0
Subtotal processed grain and animal feed	71	0	70	0	—
6746 wheat flour	0	0	—	—	—
6747 grain mill products	0	0	0	—	—
6781 hay & fodder	0	—	0	—	—
6782 animal feed, prep.	70	0	70	0	—
Subtotal other agricultural products	17	1	15	0	1
6811 meat, fresh, frozen	0	0	—	—	—
6822 dairy products	0	0	0	—	—
6835 fish, prepared	0	—	—	—	0
6838 tallow, animal oils	13	—	13	—	—
6839 animals & prod. nec	2	—	1	0	—
6857 fruit & nuts nec	1	0	1	—	0
6858 fruit juices	0	0	0	—	0
6871 coffee	0	—	0	—	0
6872 cocoa beans	0	0	—	—	—
6885 alcoholic beverages	0	0	0	—	0
6888 water & ice	1	1	—	—	—
6889 food products nec	0	0	0	—	0
6899 farm products nec	0	—	0	—	—

CHANNELS IN LAKE ST. CLAIR
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Through		Through	
		Upbound	Downbnd	Upbound	Downbnd
Total all manufactured equipment, machinery and products	48	23	13	12	0
7110 machinery (not elec)	19	14	5	0	0
7120 electrical machinery	5	2	2	0	0
7210 vehicles & parts	3	2	1	0	0
7220 aircraft & parts	0	0	0	—	0
7230 ships & boats	11	0	0	11	—
7300 ordnance & access.	0	0	0	0	—
7400 manufac. wood prod.	1	0	0	—	0
7500 textile products	1	1	0	0	0
7600 rubber & plastic pr.	1	1	0	—	0
7900 manufac. prod. nec	7	3	4	0	0
Total unknown or not elsewhere classified	0	0	—	0	0
9900 unknown or nec	0	0	—	0	0
Ton-miles (x1000)	492,855	30,575	63,204	168,473	230,603
Foreign & Canadian					

Commodity	Total	Domestic			
		Lakewise		Internal	
		Through		Through	
		Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	40,532	4,589	35,932	3	7
Total coal	5,415	3,549	1,866	—	—
1100 coal lignite	5,366	3,545	1,821	—	—
1200 coal coke	49	3	45	—	—
Total petroleum and petroleum products	537	185	341	3	7
Subtotal petroleum products	537	185	341	3	7
2211 gasoline	57	57	—	—	—
2330 distillate fuel oil	53	43	5	—	5
2340 residual fuel oil	81	78	—	3	—
2350 lube oil & greases	2	—	—	—	2
2430 asphalt, tar & pitch	315	—	315	—	—
2540 petroleum coke	28	8	21	—	—
Total crude materials, inedible except fuels	33,660	855	32,804	—	—
Subtotal soil, sand, gravel, rock and stone	9,678	291	9,387	—	—
4322 limestone	8,739	291	8,448	—	—
4323 gypsum	731	—	731	—	—
4331 sand & gravel	208	—	208	—	—
Subtotal iron ore and scrap	23,307	37	23,270	—	—
4410 iron ore	23,224	37	23,187	—	—
4420 iron & steel scrap	83	—	83	—	—
Subtotal slag	295	147	148	—	—
4860 slag	295	147	148	—	—
Subtotal other non-metal. min.	380	380	—	—	—
4900 non-metal. min. nec	380	380	—	—	—
Total primary manufactured goods	698	—	698	—	—
Subtotal lime, cement and glass	698	—	698	—	—
5220 cement & concrete	698	—	698	—	—
Total food and farm products	222	—	222	—	—
Subtotal grain	222	—	222	—	—
6241 wheat	222	—	222	—	—
Ton-miles (x1000)	729,567	82,608	646,769	61	129
Domestic					
Tons All Traffic (x1000)	67,912				
Ton-miles All Traffic (x1000)	1,222,423				

DETROIT RIVER, MI

Section Included: Entire length of Detroit River and Rouge River to head of project. Controlling Depths: 25 to 28.5 feet and 21 to 25 feet, respectively with 5 feet of shoaling along the channel limits of the lower Livingstone and east outer channel and with project depth in the regularly traveled shipping lanes.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	69,635	1993	62,662	1996	75,023	1999	75,242
1991	57,894	1994	72,027	1997	75,939		
1992	63,134	1995	73,502	1998	82,842		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports	Through		Imports	Exports	Through	
				Upbound	Downbnd			Upbound	Downbnd
Total, all commodities	32,503	963	104	1,699	3,511	3,295	256	10,528	12,148
Total coal	8,667	---	---	---	61	313	30	5,099	3,163
1100 coal lignite	8,607	---	---	---	61	313	---	5,099	3,133
1200 coal coke	60	---	---	---	---	---	30	---	30
Total petroleum and petroleum products	752	3	1	2	0	143	79	166	358
Subtotal petroleum products	752	3	1	2	0	143	79	166	358
2211 gasoline	10	---	---	---	---	---	---	10	---
2330 distillate fuel oil	25	---	0	---	---	---	3	6	16
2340 residual fuel oil	50	---	---	---	---	9	8	14	19
2350 lube oil & greases	229	0	0	0	0	49	33	49	97
2410 petro. jelly & waxes	0	0	0	---	---	0	---	0	---
2429 naphtha & solvents	26	---	---	---	---	---	---	---	26
2430 asphalt, tar & pitch	58	3	---	2	---	8	---	---	45
2540 petroleum coke	355	---	0	---	---	76	35	88	156
2640 liquid natural gas	0	---	0	---	---	---	0	---	---
Total chemicals and related products	405	5	22	15	13	7	9	99	235
Subtotal fertilizers	162	0	2	6	0	1	---	3	151
3110 nitrogenous fert.	5	---	---	---	0	1	---	---	5
3130 potassic fert.	155	0	---	6	---	0	---	3	147
3190 fert. & mixes nec	2	0	2	---	0	---	---	---	---
Subtotal other chemicals and related products	244	5	21	9	13	6	9	97	83
3211 acyclic hydrocarbons	0	---	0	---	---	---	---	---	---
3212 benzene & toluene	28	---	---	---	---	---	---	---	28
3219 other hydrocarbons	7	0	0	7	0	0	---	0	---
3220 alcohols	1	0	0	0	0	0	---	0	---
3230 carboxylic acids	2	1	1	0	0	0	0	0	---
3240 nitrogen func. comp.	3	1	2	0	0	1	---	---	---
3250 organo - inorg. comp.	1	0	0	0	1	0	---	0	---
3260 organic comp. nec	1	---	1	0	0	---	---	---	---
3273 ammonia	0	---	---	---	---	0	---	---	---
3274 sodium hydroxide	66	---	---	0	---	---	---	66	---
3275 inorg. elem., oxides, & halogen salts	8	0	1	0	4	2	0	1	---
3276 metallic salts	92	0	1	0	0	---	9	27	54
3279 inorganic chem. nec	3	0	0	0	3	---	---	---	---
3281 radioactive material	0	---	---	---	0	0	---	0	---
3282 pigments & paints	6	0	1	0	0	2	---	2	---

DETROIT RIVER, MI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports	Through		Imports	Exports	Through	
				Upbound	Downbnd			Upbound	Downbnd
3283 coloring mat. nec	0	0	0	0	0	—	0	—	—
3284 medicines	2	0	0	0	1	—	0	0	—
3285 perfumes & cleansers	6	0	5	0	1	0	—	0	—
3286 plastics	9	1	4	1	2	0	—	0	1
3291 pesticides	0	0	0	0	0	—	—	—	—
3292 starches, gluten, glue	3	1	1	0	1	—	—	—	—
3293 explosives	0	0	—	—	—	—	—	—	—
3297 chemical additives	1	0	1	0	0	0	—	0	—
3298 wood & resin chem.	0	0	—	0	0	—	—	—	—
3299 chem. products nec	3	1	2	0	1	0	—	0	—
Total crude materials, inedible except fuels	12,363	0	8	124	80	1,807	106	4,509	5,729
Subtotal forest products, wood and chips	229	0	5	0	2	111	0	111	0
4110 rubber & gums	0	—	0	—	—	—	—	—	—
4150 fuel wood	0	—	—	—	0	—	—	—	—
4170 wood in the rough	3	—	2	—	1	—	—	—	—
4189 lumber	225	0	3	0	0	111	0	111	0
4190 forest products nec	0	0	0	0	0	—	—	—	—
Subtotal pulp and waste paper	22	—	0	10	12	—	—	—	—
4225 pulp & waste paper	22	—	0	10	12	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	2,872	0	2	—	0	220	75	626	1,949
4310 building stone	0	0	—	—	—	—	—	—	—
4322 limestone	1,885	—	—	—	—	—	—	404	1,482
4323 gypsum	31	—	0	—	—	—	5	—	25
4327 phosphate rock	79	—	—	—	—	—	39	—	39
4331 sand & gravel	877	—	2	—	0	220	30	222	403
Subtotal iron ore and scrap	6,135	0	—	22	—	1,123	30	1,862	3,098
4410 iron ore	6,071	—	—	—	—	1,123	30	1,835	3,083
4420 iron & steel scrap	64	0	—	22	—	—	—	27	15
Subtotal non-ferrous ores and scrap	71	0	0	66	5	0	—	0	—
4650 aluminum ore	70	0	0	66	4	0	—	0	—
4680 non-ferrous scrap	0	0	0	—	—	0	—	0	—
4690 non-ferrous ores nec	1	—	0	—	1	—	—	—	—
Subtotal sulphur, clay and salt	95	—	0	6	62	27	0	—	—
4782 clay & refrac. mat.	95	—	0	6	62	27	0	—	—
Subtotal slag	96	—	—	—	—	43	2	51	1
4860 siag	96	—	—	—	—	43	2	51	1
Subtotal other non-metal. min.	2,844	—	0	20	0	283	0	1,859	681
4900 non-metal. min. nec	2,844	—	0	20	0	283	0	1,859	681
Total primary manufactured goods	4,356	936	12	1,534	17	1,019	24	636	179
Subtotal paper products	9	1	2	0	2	0	0	0	4
5120 paper & paperboard	3	1	2	0	0	0	0	0	—
5190 paper products nec	6	0	0	0	2	0	0	0	4
Subtotal lime, cement and glass	1,819	29	4	32	12	1,018	23	531	170
5220 cement & concrete	1,792	24	—	26	—	1,018	23	531	170
5240 glass & glass prod.	3	0	2	0	0	0	—	0	—

DETROIT RIVER, MI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports	Through		Imports	Exports	Through	
				Upbound	Downbnd			Upbound	Downbnd
5290 misc. mineral prod.	25	5	2	6	12	0	—	0	0
Subtotal primary iron and steel products	2,512	902	1	1,498	1	0	0	106	5
5312 pig iron	224	—	—	136	0	—	—	84	4
5315 ferro alloys	5	5	—	—	—	—	—	—	—
5320 i&s primary forms	360	81	0	260	0	—	—	19	—
5330 i&s plates & sheets	1,784	742	0	1,038	0	0	0	3	0
5360 i&s bars & shapes	129	71	0	58	0	0	—	0	—
5370 i&s pipe & tube	6	1	0	5	0	0	—	0	—
5390 primary i&s nec	3	1	0	2	0	0	—	0	—
Subtotal primary non-ferrous metal products	13	4	4	3	2	0	—	0	0
5421 copper	1	0	1	0	0	0	—	0	—
5422 aluminum	1	0	0	0	0	0	—	0	—
5429 smelted prod. nec	1	0	0	0	0	0	—	0	—
5480 fab. metal products	10	3	3	3	1	0	—	0	0
Subtotal primary wood products	2	0	1	0	0	0	—	0	1
5540 primary wood prod.	2	0	1	0	0	0	—	0	1
Total food and farm products	5,851	2	26	1	3,327	1	8	1	2,484
Subtotal fish	0	—	—	0	—	—	—	0	0
6134 fish (not shellfish)	0	—	—	—	—	—	—	—	0
6136 shellfish	0	—	—	0	—	—	—	0	—
Subtotal grain	3,948	0	8	—	2,527	—	8	—	1,405
6241 wheat	1,845	—	—	—	1,630	—	—	—	215
6344 corn	1,929	0	4	—	850	—	8	—	1,067
6442 rice	0	0	—	—	—	—	—	—	—
6443 barley & rye	47	—	0	—	47	—	—	—	—
6445 oats	123	—	—	—	—	—	—	—	123
6447 sorghum grains	4	—	4	—	—	—	—	—	—
Subtotal oilseeds	1,749	0	4	0	710	—	—	—	1,035
6522 soybeans	1,674	—	3	—	640	—	—	—	1,031
6590 oilseeds nec	75	0	0	0	70	—	—	—	4
Subtotal vegetable products	12	0	7	0	5	0	0	0	0
6653 vegetable oils	0	0	0	0	0	—	—	—	—
6654 vegetables & prod.	12	0	7	0	5	0	0	0	0
Subtotal processed grain and animal feed	119	0	4	0	70	1	0	1	43
6746 wheat flour	0	—	0	0	—	—	—	—	—
6747 grain mill products	1	0	0	0	0	—	—	—	—
6781 hay & fodder	1	—	—	—	0	—	—	—	1
6782 animal feed, prep.	117	—	3	0	70	1	0	1	42
Subtotal other agricultural products	23	1	5	1	15	0	—	0	1
6811 meat, fresh, frozen	1	0	1	0	—	—	—	—	—
6817 meat, prepared	0	—	0	—	—	—	—	—	—
6822 dairy products	0	—	0	0	0	—	—	—	—
6835 fish, prepared	0	0	—	—	—	—	—	—	0
6838 tallow, animal oils	13	—	0	—	13	—	—	—	—
6839 animals & prod. nec	3	0	1	—	1	—	—	0	—
6857 fruit & nuts nec	1	0	0	0	1	0	—	—	—
6858 fruit juices	2	0	1	0	0	—	—	—	0
6871 coffee	0	—	0	—	0	0	—	0	0
6872 cocoa beans	0	—	—	0	—	—	—	—	—
6885 alcoholic beverages	1	1	0	0	0	0	—	0	0

DETROIT RIVER, MI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports	Through		Imports	Exports	Through	
				Upbound	Downbnd			Upbound	Downbnd
6888 water & ice	1	0	—	1	—	—	—	—	—
6889 food products nec	1	0	1	0	0	—	—	—	0
6899 farm products nec	0	—	0	—	0	—	—	—	—
Total all manufactured equipment, machinery and products	108	16	35	23	13	4	0	16	0
7110 machinery (not elec)	45	9	10	14	5	4	0	3	0
7120 electrical machinery	11	3	3	2	2	0	0	0	0
7210 vehicles & parts	18	0	14	2	1	0	0	0	0
7220 aircraft & parts	0	0	0	0	0	0	—	—	—
7230 ships & boats	11	0	0	0	0	0	—	11	—
7300 ordnance & access.	0	0	—	0	0	0	—	0	—
7400 manufac. wood prod.	1	0	0	0	0	0	—	0	0
7500 textile products	2	1	1	1	0	0	—	0	0
7600 rubber & plastic pr.	4	1	3	1	0	0	—	0	0
7900 manufac. prod. nec	15	3	5	3	4	0	0	1	0
Total unknown or not elsewhere classified	2	0	0	0	—	1	—	1	0
9900 unknown or nec	2	0	0	0	—	1	—	1	0
Ton-miles Foreign & Canadian (x1000)	943,618	22,731	2,597	52,656	108,852	48,957	4,891	326,357	376,576

Commodity	Total	Lakewise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Total, all commodities	42,580	11,628	551	4,484	25,917
Total coal	6,762	1,472	—	3,549	1,742
1100 coal lignite	6,713	1,472	—	3,545	1,696
1200 coal coke	49	—	—	3	45
Total petroleum and petroleum products	978	187	491	117	183
Subtotal petroleum products	978	187	491	117	183
2211 gasoline	57	—	—	57	—
2330 distillate fuel oil	67	19	28	15	5
2340 residual fuel oil	102	10	47	46	—
2430 asphalt, tar & pitch	722	158	407	—	157
2540 petroleum coke	30	—	10	—	21
Total crude materials, inedible except fuels	33,916	9,519	60	818	23,519
Subtotal soil, sand, gravel, rock and stone	9,737	3,274	22	291	6,150
4322 limestone	8,798	3,113	22	291	5,372
4323 gypsum	731	162	—	—	569
4331 sand & gravel	208	—	—	—	208
Subtotal iron ore and scrap	23,307	5,901	37	—	17,369
4410 iron ore	23,224	5,901	37	—	17,286
4420 iron & steel scrap	83	—	—	—	83
Subtotal slag	295	148	—	147	—
4860 slag	295	148	—	147	—
Subtotal other non-metal. min.	577	196	—	380	—
4900 non-metal. min. nec	577	196	—	380	—
Total primary manufactured goods	703	451	—	—	251
Subtotal lime, cement and glass	703	451	—	—	251
5220 cement & concrete	703	451	—	—	251

DETROIT RIVER, MI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Lakewise			
		Receipts	Shipments	Through Upbound	Through Downbnd
Total food and farm products	222	---	---	---	222
Subtotal grain	222	---	---	---	222
6241 wheat	222	---	---	---	222
Ton-miles (x1000)	1,170,645	219,252	8,960	139,007	803,426
Lakewise					

Commodity	Total	Internal				
		Inbound		Through		Intra
		Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	159	5	3	2	87	62
Total petroleum and petroleum products	159	5	3	2	87	62
Subtotal petroleum products	159	5	3	2	87	62
2330 distillate fuel oil	5	5	---	---	---	---
2340 residual fuel oil	4	---	3	---	0	0
2350 lube oil & greases	2	---	---	2	---	---
2430 asphalt, tar & pitch	144	---	---	---	86	58
2540 petroleum coke	4	---	---	---	---	4
Ton-miles (x1000)	1,964	10	105	74	820	955
Internal						
Tons All Traffic (x1000)	75,242					
Ton-miles All Traffic (x1000)	2,116,227					

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

DETROIT HARBOR, MI (INCLUDED IN PORT OF DETROIT)

Section Included: U.S. bank of Detroit River from Lake St. Clair to western extreme of Zug Island. Controlling Depth: Channel north of Belle Isle 21 feet, remainder of river 25-28.5 feet. Project Depth: 28.5 feet except channel north of Belle Isle, 21 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	7,553	1993	8,083	1996	8,224	1999	8,257
1991	5,526	1994	7,501	1997	5,689		
1992	7,194	1995	5,284	1998	5,882		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
Total, all commodities	4,077	769	104	2,998	206
Total coal	343	---	---	313	30
1100 coal lignite	313	---	---	313	---
1200 coal coke	30	---	---	---	30
Total petroleum and petroleum products	211	3	1	138	70
Subtotal petroleum products	211	3	1	138	70
2330 distillate fuel oil	2	---	0	---	2
2340 residual fuel oil	15	---	---	7	8
2350 lube oil & greases	82	0	0	49	33
2410 petro. jelly & waxes	0	0	0	0	---
2430 asphalt, tar & pitch	9	3	---	6	---
2540 petroleum coke	104	---	0	76	27
2640 liquid natural gas	0	---	0	---	0
Total chemicals and related products	34	5	22	7	0
Subtotal fertilizers	2	0	2	1	---
3110 nitrogenous fert.	1	---	---	1	---
3130 potassic fert.	0	0	---	0	---
3190 fert. & mixes nec	2	0	2	---	---
Subtotal other chemicals and related products	32	5	21	6	0
3211 acyclic hydrocarbons	0	---	0	---	---
3219 other hydrocarbons	0	0	0	0	---
3220 alcohols	0	0	0	0	---
3230 carboxylic acids	1	1	1	0	0
3240 nitrogen func. comp.	3	1	2	1	---
3250 organo - inorg. comp.	1	0	0	0	---
3260 organic comp. nec	1	---	1	---	---
3273 ammonia	0	---	---	0	---
3275 inorg. elem., oxides, & halogen salts	4	0	1	2	0
3276 metallic salts	1	0	1	---	0
3279 inorganic chem. nec	0	0	0	---	---

DETROIT HARBOR, MI (INCLUDED IN PORT OF DETROIT)
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
3281 radioactive material	0	—	—	0	—
3282 pigments & paints	3	0	1	2	—
3283 coloring mat. nec	0	0	0	0	—
3284 medicines	0	0	0	—	0
3285 perfumes & cleansers	6	0	5	0	—
3286 plastics	5	1	4	0	—
3291 pesticides	0	0	0	—	—
3292 starches, gluten, glue	2	1	1	—	—
3293 explosives	0	0	—	—	—
3297 chemical additives	1	0	1	0	—
3298 wood & resin chem.	0	0	—	—	—
3299 chem. products nec	2	1	2	0	—
Total crude materials, inedible except fuels	1,607	0	8	1,525	75
Subtotal forest products, wood and chips	116	0	5	111	0
4110 rubber & gums	0	—	0	—	—
4170 wood in the rough	2	—	2	—	—
4189 lumber	114	0	3	111	0
4190 forest products nec	0	0	0	—	—
Subtotal pulp and waste paper	0	—	0	—	—
4225 pulp & waste paper	0	—	0	—	—
Subtotal soil, sand, gravel, rock and stone	232	0	2	155	75
4310 building stone	0	0	—	—	—
4323 gypsum	5	—	0	—	5
4327 phosphate rock	39	—	—	—	39
4331 sand & gravel	187	—	2	155	30
Subtotal iron ore and scrap	957	0	—	957	—
4410 iron ore	957	—	—	957	—
4420 iron & steel scrap	0	0	—	—	—
Subtotal non-ferrous ores and scrap	0	0	0	0	—
4650 aluminum ore	0	0	0	0	—
4680 non-ferrous scrap	0	0	0	0	—
4690 non-ferrous ores nec	0	—	0	—	—
Subtotal sulphur, clay and salt	17	—	0	17	0
4782 clay & refrac. mat.	17	—	0	17	0
Subtotal slag	43	—	—	43	—
4860 slag	43	—	—	43	—
Subtotal other non-metal. min.	242	—	0	242	0
4900 non-metal. min. nec	242	—	0	242	0
Total primary manufactured goods	1,787	742	12	1,009	24
Subtotal paper products	3	1	2	0	0
5120 paper & paperboard	3	1	2	0	0
5190 paper products nec	0	0	0	0	0
Subtotal lime, cement and glass	1,041	5	4	1,008	23
5220 cement & concrete	1,032	—	—	1,008	23
5240 glass & glass prod.	2	0	2	0	—
5290 misc. mineral prod.	7	5	2	0	—
Subtotal primary iron and steel products	734	733	1	0	0
5315 ferro alloys	5	5	—	—	—
5320 i&s primary forms	80	80	0	—	—
5330 i&s plates & sheets	589	588	0	0	0
5360 i&s bars & shapes	59	59	0	0	—
5370 i&s pipe & tube	1	0	0	0	—
5390 primary i&s nec	1	1	0	0	—
Subtotal primary non-ferrous metal products	7	3	4	0	—
5421 copper	1	0	1	0	—
5422 aluminum	0	0	0	0	—
5429 smelted prod. nec	0	0	0	0	—
5480 fab. metal products	5	2	3	0	—
Subtotal primary wood products	1	0	1	0	—
5540 primary wood prod.	1	0	1	0	—
Total food and farm products	37	2	26	1	8
Subtotal grain	16	0	8	—	8
6344 corn	12	0	4	—	8
6442 rice	0	0	—	—	—
6443 barley & rye	0	—	0	—	—
6447 sorghum grains	4	—	4	—	—
Subtotal oilseeds	4	0	4	—	—
6522 soybeans	3	—	3	—	—
6590 oilseeds nec	0	0	0	—	—
Subtotal vegetable products	7	0	7	0	0
6653 vegetable oils	0	0	0	—	—
6654 vegetables & prod.	7	0	7	0	0
Subtotal processed grain and animal feed	4	0	4	1	0
6746 wheat flour	0	—	0	—	—
6747 grain mill products	0	0	0	—	—
6782 animal feed, prep.	4	—	3	1	0
Subtotal other agricultural products	6	1	5	0	—
6811 meat, fresh, frozen	1	0	1	—	—
6817 meat, prepared	0	—	0	—	—
6822 dairy products	0	—	0	—	—
6835 fish, prepared	0	0	—	—	—
6838 tallow, animal oils	0	—	0	—	—
6839 animals & prod. nec	2	0	1	—	—

DETROIT HARBOR, MI (INCLUDED IN PORT OF DETROIT)
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
6857 fruit & nuts nec	0	0	0	0	—
6858 fruit juices	1	0	1	—	—
6871 coffee	0	—	0	0	—
6885 alcoholic beverages	1	1	0	0	—
6888 water & ice	0	0	—	—	—
6889 food products nec	1	0	1	—	—
6899 farm products nec	0	—	0	—	—
Total all manufactured equipment, machinery and products	55	15	35	4	0
7110 machinery (not elec)	22	8	10	4	0
7120 electrical machinery	6	3	3	0	0
7210 vehicles & parts	14	0	14	0	0
7220 aircraft & parts	0	0	0	0	—
7230 ships & boats	0	0	0	0	—
7300 ordnance & access.	0	0	—	0	—
7400 manufac. wood prod.	0	0	0	0	—
7500 textile products	1	1	1	0	—
7600 rubber & plastic pr.	3	1	3	0	—
7900 manufac. prod. nec	8	3	5	0	0
Total unknown or not elsewhere classified	1	0	0	1	—
9900 unknown or nec	1	0	0	1	—

Commodity	Total	Domestic			
		Lakewise		Internal	
		Receipts	Shipments	Receipts	Shipments
Total, all commodities	4,180	4,085	41	5	48
Total petroleum and petroleum products	60	8	—	5	48
Subtotal petroleum products	60	8	—	5	48
2330 distillate fuel oil	12	8	—	5	—
2340 residual fuel oil	0	—	—	0	—
2430 asphalt, tar & pitch	48	—	—	—	48
Total crude materials, inedible except fuels	3,668	3,627	41	—	—
Subtotal soil, sand, gravel, rock and stone	680	657	22	—	—
4322 limestone	680	657	22	—	—
Subtotal iron ore and scrap	2,905	2,886	19	—	—
4410 iron ore	2,905	2,886	19	—	—
Subtotal slag	83	83	—	—	—
4860 slag	83	83	—	—	—
Total primary manufactured goods	451	451	—	—	—
Subtotal lime, cement and glass	451	451	—	—	—
5220 cement & concrete	451	451	—	—	—

*Includes 28 (x1000) tons of foreign inbound in-transits.

ROUGE RIVER, MI (INCLUDED IN PORT OF DETROIT)

Section Included: From the mouth of the Short Cut Canal to the Ford Motor Company. Controlling Depth: 20 feet for a minimum width of 100 feet from the mouth of the short cut to Dix Avenue Bridge, with the exception of some shoal areas, and 20 feet in the turning basin, except near the shore. Project Depth: 21.0 feet from mouth of Short Cut Canal to and including the turning basin in main channel.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	7,960	1993	7,072	1996	9,307	1999	8,190
1991	6,522	1994	8,569	1997	11,996		
1992	7,192	1995	11,372	1998	12,626		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign Imports*	Canadian		Domestic				
			Imports	Exports	Total	Lakewise		Internal	
						Receipts	Shipments	Receipts	Intraport
Total, all commodities	8,190	71	297	39	7,783	7,149	485	48	100
Total coal	1,267	—	—	—	1,267	1,267	—	—	—
1100 coal lignite	1,267	—	—	—	1,267	1,267	—	—	—

ROUGE RIVER, MI (INCLUDED IN PORT OF DETROIT)
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign	Canadian		Domestic			Internal	
		Imports*	Imports	Exports	Total	Lakewise		Receipts	Intraport
						Receipts	Shipments		
Total petroleum and petroleum products	808	—	4	9	794	179	467	48	100
Subtotal petroleum products	808	—	4	9	794	179	467	48	100
2330 distillate fuel oil	17	—	—	1	15	11	4	—	—
2340 residual fuel oil	59	—	2	0	57	10	47	—	0
2430 asphalt, tar & pitch	711	—	2	—	709	158	407	48	96
2540 petroleum coke	21	—	—	8	13	—	10	—	4
Total crude materials, inedible except fuels	6,034	—	283	30	5,722	5,703	18	—	—
Subtotal soil, sand, gravel, rock and stone	2,641	—	65	—	2,576	2,576	—	—	—
4322 limestone	2,414	—	—	—	2,414	2,414	—	—	—
4323 gypsum	162	—	—	—	162	162	—	—	—
4331 sand & gravel	65	—	65	—	—	—	—	—	—
Subtotal iron ore and scrap	3,229	—	166	30	3,033	3,015	18	—	—
4410 iron ore	3,229	—	166	30	3,033	3,015	18	—	—
Subtotal sulphur, clay and salt	10	—	10	—	—	—	—	—	—
4782 clay & refrac. mat.	10	—	10	—	—	—	—	—	—
Subtotal slag	64	—	—	—	64	64	—	—	—
4860 slag	64	—	—	—	64	64	—	—	—
Subtotal other non-metal. min.	90	—	42	—	48	48	—	—	—
4900 non-metal. min. nec	90	—	42	—	48	48	—	—	—
Total primary manufactured goods	80	71	10	—	—	—	—	—	—
Subtotal lime, cement and glass	34	24	10	—	—	—	—	—	—
5220 cement & concrete	34	24	10	—	—	—	—	—	—
5240 glass & glass prod.	0	0	—	—	—	—	—	—	—
5290 misc. mineral prod.	0	0	—	—	—	—	—	—	—
Subtotal primary iron and steel products	46	46	—	—	—	—	—	—	—
5320 i&s primary forms	1	1	—	—	—	—	—	—	—
5330 i&s plates & sheets	34	34	—	—	—	—	—	—	—
5360 i&s bars & shapes	10	10	—	—	—	—	—	—	—
5370 i&s pipe & tube	0	0	—	—	—	—	—	—	—
Subtotal primary non-ferrous metal products	1	1	—	—	—	—	—	—	—
5480 fab. metal products	1	1	—	—	—	—	—	—	—
Total all manufactured equipment, machinery and products	0	0	—	0	—	—	—	—	—
7110 machinery (not elec)	0	0	—	0	—	—	—	—	—

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

ECORSE, MI (INCLUDED IN PORT OF DETROIT)

Section Included: U.S. shore of Detroit River from Great Lakes Avenue. to Ecorse River. Controlling Depth: 26.5 feet. Project Depth: 28.5 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	268	1993	276	1996	797	1999	303
1991	421	1994	712	1997	375		
1992	350	1995	549	1998	843		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign	Domestic
		Imports*	Lakewise Receipts
Total, all commodities	303	123	180
Total crude materials, inedible except fuels	180	—	180
Subtotal soil, sand, gravel, rock and stone	32	—	32
4322 limestone	32	—	32
Subtotal other non-metal. min.	148	—	148
4900 non-metal. min. nec	148	—	148
Total primary manufactured goods	123	123	—
Subtotal primary iron and steel products	123	123	—
5320 i&s primary forms	0	0	—
5330 i&s plates & sheets	120	120	—
5360 i&s bars & shapes	2	2	—
5390 primary i&s nec	0	0	—
Total all manufactured equipment, machinery and products	1	1	—
7110 machinery (not elec)	1	1	—

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

PORT OF DETROIT, MI

Section Included: Detroit Harbor, Rouge River, Ecorse, Wyandotte, Riverview and Trenton. Controlling and Project Depths: See aforementioned project descriptions.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	17,735	1993	17,422	1996	18,604	1999	16,948
1991	14,321	1994	18,718	1997	18,135		
1992	16,303	1995	18,661	1998	19,454		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
Total, all commodities	4,616	963	104	3,295	254
Total coal	343	—	—	313	30
1100 coal lignite	313	—	—	313	—
1200 coal coke	30	—	—	—	30
Total petroleum and petroleum products	225	3	1	143	79
Subtotal petroleum products	225	3	1	143	79
2330 distillate fuel oil	3	—	0	—	3
2340 residual fuel oil	17	—	—	9	8
2350 lube oil & greases	82	0	0	49	33
2410 petro. jelly & waxes	0	0	0	0	—
2430 asphalt, tar & pitch	11	3	—	8	—
2540 petroleum coke	111	—	0	76	35
2640 liquid natural gas	0	—	0	—	0
Total chemicals and related products	43	5	22	7	9
Subtotal fertilizers	2	0	2	1	—
3110 nitrogenous fert.	1	—	—	1	—
3130 potassic fert.	0	0	—	0	—
3190 fert. & mixes nec	2	0	2	—	—
Subtotal other chemicals and related products	41	5	21	6	9
3211 acyclic hydrocarbons	0	—	0	—	—
3219 other hydrocarbons	0	0	0	0	—
3220 alcohols	0	0	0	0	—
3230 carboxylic acids	1	1	1	0	0
3240 nitrogen func. comp.	3	1	2	1	—
3250 organo - inorg. comp.	1	0	0	0	—
3260 organic comp. nec	1	—	1	—	—
3273 ammonia	0	—	—	0	—
3275 inorg. elem., oxides, & halogen salts	4	0	1	2	0
3276 metallic salts	10	0	1	—	9

PORT OF DETROIT, MI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
3279 inorganic chem. nec	0	0	0	—	—
3281 radioactive material	0	—	—	0	—
3282 pigments & paints	3	0	1	2	—
3283 coloring mat. nec	0	0	0	0	—
3284 medicines	0	0	0	—	0
3285 perfumes & cleansers	6	0	5	0	—
3286 plastics	5	1	4	0	—
3291 pesticides	0	0	0	—	—
3292 starches, gluten, glue	2	1	1	—	—
3293 explosives	0	0	—	—	—
3297 chemical additives	1	0	1	0	—
3298 wood & resin chem.	0	0	—	—	—
3299 chem. products nec	2	1	2	0	—
Total crude materials, inedible except fuels	1,920	0	8	1,807	104
Subtotal forest products, wood and chips	116	0	5	111	0
4110 rubber & gums	0	—	0	—	—
4170 wood in the rough	2	—	2	—	—
4189 lumber	114	0	3	111	0
4190 forest products nec	0	0	0	—	—
Subtotal pulp and waste paper	0	—	0	—	—
4225 pulp & waste paper	0	—	0	—	—
Subtotal soil, sand, gravel, rock and stone	297	0	2	220	75
4310 building stone	0	0	—	—	—
4323 gypsum	5	—	0	—	5
4327 phosphate rock	39	—	—	—	39
4331 sand & gravel	252	—	2	220	30
Subtotal iron ore and scrap	1,153	0	—	1,123	30
4410 iron ore	1,153	—	—	1,123	30
4420 iron & steel scrap	0	0	—	—	—
Subtotal non-ferrous ores and scrap	0	0	0	0	—
4650 aluminum ore	0	0	0	0	—
4680 non-ferrous scrap	0	0	0	0	—
4690 non-ferrous ores nec	0	—	0	—	—
Subtotal sulphur, clay and salt	27	—	0	27	0
4782 clay & refrac. mat.	27	—	0	27	0
Subtotal slag	43	—	—	43	—
4860 slag	43	—	—	43	—
Subtotal other non-metal. min.	283	—	0	283	0
4900 non-metal. min. nec	283	—	0	283	0
Total primary manufactured goods	1,990	936	12	1,019	24
Subtotal paper products	3	1	2	0	0
5120 paper & paperboard	3	1	2	0	0
5190 paper products nec	0	0	0	0	0
Subtotal lime, cement and glass	1,075	29	4	1,018	23
5220 cement & concrete	1,066	24	—	1,018	23
5240 glass & glass prod.	2	0	2	0	—
5290 misc. mineral prod.	7	5	2	0	—
Subtotal primary iron and steel products	903	902	1	0	0
5315 ferro alloys	5	5	—	—	—
5320 i&s primary forms	81	81	0	—	—
5330 i&s plates & sheets	743	742	0	0	0
5360 i&s bars & shapes	71	71	0	0	—
5370 i&s pipe & tube	1	1	0	0	—
5390 primary i&s nec	1	1	0	0	—
Subtotal primary non-ferrous metal products	8	4	4	0	—
5421 copper	1	0	1	0	—
5422 aluminum	0	0	0	0	—
5429 smelted prod. nec	0	0	0	0	—
5480 fab. metal products	6	3	3	0	—
Subtotal primary wood products	1	0	1	0	—
5540 primary wood prod.	1	0	1	0	—
Total food and farm products	37	2	26	1	8
Subtotal grain	16	0	8	—	8
6344 corn	12	0	4	—	8
6442 rice	0	0	—	—	—
6443 barley & rye	0	—	0	—	—
6447 sorghum grains	4	—	4	—	—
Subtotal oilseeds	4	0	4	—	—
6522 soybeans	3	—	3	—	—
6590 oilseeds nec	0	0	0	—	—
Subtotal vegetable products	7	0	7	0	0
6653 vegetable oils	0	0	0	—	—
6654 vegetables & prod.	7	0	7	0	0
Subtotal processed grain and animal feed	4	0	4	1	0
6746 wheat flour	0	—	0	—	—
6747 grain mill products	0	0	0	—	—
6782 animal feed, prep.	4	—	3	1	0
Subtotal other agricultural products	6	1	5	0	—
6811 meat, fresh, frozen	1	0	1	—	—
6817 meat, prepared	0	—	0	—	—
6822 dairy products	0	—	0	—	—
6835 fish, prepared	0	0	—	—	—
6838 tallow, animal oils	0	—	0	—	—

PORT OF DETROIT, MI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
6839 animals & prod. nec	2	0	1	—	—
6857 fruit & nuts nec	0	0	0	0	—
6858 fruit juices	1	0	1	—	—
6871 coffee	0	—	0	0	—
6885 alcoholic beverages	1	1	0	0	—
6888 water & ice	0	0	—	—	—
6889 food products nec	1	0	1	—	—
6899 farm products nec	0	—	0	—	—
Total all manufactured equipment, machinery and products	56	16	35	4	0
7110 machinery (not elec)	23	9	10	4	0
7120 electrical machinery	6	3	3	0	0
7210 vehicles & parts	14	0	14	0	0
7220 aircraft & parts	0	0	0	0	—
7230 ships & boats	0	0	0	0	—
7300 ordnance & access.	0	0	—	0	—
7400 manufac. wood prod.	0	0	0	0	—
7500 textile products	1	1	1	0	—
7600 rubber & plastic pr.	3	1	3	0	—
7900 manufac. prod. nec	8	3	5	0	0
Total unknown or not elsewhere classified	1	0	0	1	—
9900 unknown or nec	1	0	0	1	—

Commodity	Total	Domestic			
		Lakewise		Internal	
		Receipts	Shipments	Receipts	Intraport
Total, all commodities	12,333	11,628	551	5	149
Total coal	1,472	1,472	—	—	—
1100 coal lignite	1,472	1,472	—	—	—
Total petroleum and petroleum products	831	187	491	5	149
Subtotal petroleum products	831	187	491	5	149
2330 distillate fuel oil	52	19	28	5	—
2340 residual fuel oil	57	10	47	—	1
2430 asphalt, tar & pitch	709	158	407	—	144
2540 petroleum coke	13	—	10	—	4
Total crude materials, inedible except fuels	9,579	9,519	60	—	—
Subtotal soil, sand, gravel, rock and stone	3,297	3,274	22	—	—
4322 limestone	3,135	3,113	22	—	—
4323 gypsum	162	162	—	—	—
Subtotal iron ore and scrap	5,938	5,901	37	—	—
4410 iron ore	5,938	5,901	37	—	—
Subtotal slag	148	148	—	—	—
4860 slag	148	148	—	—	—
Subtotal other non-metal. min.	196	196	—	—	—
4900 non-metal. min. nec	196	196	—	—	—
Total primary manufactured goods	451	451	—	—	—
Subtotal lime, cement and glass	451	451	—	—	—
5220 cement & concrete	451	451	—	—	—

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

MONROE HARBOR, MI

Section Included: Channel in Lake Erie and 16,000 feet above Raisin River. Controlling depth: 20 feet to turning basin over a center width of 150 feet; 16.5 feet in turning basin except near the shore; 5.5 feet in 9 foot channel. Project Depth: 21 feet to the turning basin; 18 feet in the turning basin; 9 feet to lower docks at Monroe. Navigation season: Approximately 20 April to 14 December.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	1,585	1993	1,078	1996	1,794	1999	1,771
1991	1,837	1994	2,035	1997	2,750		
1992	1,778	1995	1,920	1998	1,929		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Lakewise	
		Receipts	Shipments
Total, all commodities	1,771	1,771	1,771
Total coal	1,741	1,741	1,741
1100 coal lignite	1,711	1,711	1,711
1200 coal coke	30	30	30
Total petroleum and petroleum products	30	30	30
Subtotal petroleum products	30	30	30
2430 asphalt, tar & pitch	30	30	30

CALCITE, MI

NON-CORPS PROJECT

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	10,058	1993	6,419	1996	8,669	1999	9,533
1991	8,814	1994	7,456	1997	10,036		
1992	7,049	1995	8,381	1998	9,389		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	
					Receipts	Shipments
Total, all commodities	9,533	535	1,828	7,169	73	7,096
Total coal	66	66	—	—	—	—
1100 coal lignite	66	66	—	—	—	—
Total crude materials, inedible except fuels	9,466	469	1,828	7,169	73	7,096
Subtotal soil, sand, gravel, rock and stone	8,992	43	1,828	7,121	25	7,096
4322 limestone	8,949	—	1,828	7,121	25	7,096
4331 sand & gravel	43	43	—	—	—	—
Subtotal iron ore and scrap	228	228	—	—	—	—
4410 iron ore	228	228	—	—	—	—
Subtotal sulphur, clay and salt	123	123	—	—	—	—
4782 clay & refrac. mat.	123	123	—	—	—	—
Subtotal slag	0	0	—	—	—	—
4860 slag	0	0	—	—	—	—
Subtotal other non-metal. min.	123	76	—	48	48	—
4900 non-metal. min. nec	123	76	—	48	48	—

ESCANABA, MI

NON-CORPS PROJECT

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	6,400	1993	7,142	1996	9,253	1999	8,511
1991	6,492	1994	7,775	1997	7,261		
1992	7,401	1995	8,479	1998	8,530		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Lakewise	
		Receipts	Shipments
Total, all commodities	8,511	940	7,572
Total coal	292	292	—
1100 coal lignite	292	292	—

ESCANABA, MI
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Lakewise	
		Receipts	Shipments
Total petroleum and petroleum products	7	7	---
Subtotal petroleum products	7	7	---
2430 asphalt, tar & pitch	7	7	---
Total crude materials, inedible except fuels	8,213	642	7,572
Subtotal soil, sand, gravel, rock and stone	642	642	---
4322 limestone	642	642	---
Subtotal iron ore and scrap	7,572	---	7,572
4410 iron ore	7,572	---	7,572

STONEPORT, MI

NON-CORPS PROJECT

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	8,694	1993	8,752	1996	7,990	1999	8,873
1991	9,317	1994	8,416	1997	8,101		
1992	8,650	1995	8,468	1998	9,114		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	
					Receipts	Shipments
Total, all commodities	8,873	28	482	8,364	133	8,231
Total crude materials, inedible except fuels	8,873	28	482	8,364	133	8,231
Subtotal soil, sand, gravel, rock and stone	8,845	---	482	8,364	133	8,231
4322 limestone	8,789	---	426	8,364	133	8,231
4331 sand & gravel	56	---	56	---	---	---
Subtotal sulphur, clay and salt	28	28	---	---	---	---
4782 clay & refrac. mat.	28	28	---	---	---	---

Other Harbors and Waterways 1999

Harbor or Waterway Project	Commodity	Thousand Short Tons
ALGOMA HARBOR, WI	No Commerce Reported	
ALGONAC, MI (INCLUDED IN ST. CLAIR RIVER)	4322 limestone	22
	Total Tons(x1000)	22
ASHLAND HARBOR, WI	1100 coal lignite	88
	4322 limestone	13
	Total Tons(x1000)	100
AU SABLE HARBOR AND RIVER (OSCODA), MI	No Commerce Reported	
BAYFIELD HARBOR, WI	2211 gasoline	0
	2330 distillate fuel oil	0
	2340 residual fuel oil	0
	2640 liquid natural gas	0
	4331 sand & gravel	17
	7900 manufac. prod. nec	18
	Total Tons(x1000)	36
BEAVER BAY HARBOR, WI	No Commerce Reported	
BIG BAY HARBOR, MI	No Commerce Reported	
BLACK RIVER HARBOR, MI	No Commerce Reported	
CASEVILLE, MI	No Commerce Reported	
CEDAR RIVER HARBOR, MI	No Commerce Reported	
CHIPPEWA HARBOR (ISLE ROYALE), MI	No Commerce Reported	
CORNUCOPIA HARBOR, WI	No Commerce Reported	
DETOUR, MI AND VICINITY (INCLUDED IN ST. MARYS RIVER)	3285 perfumes & cleansers	0
	4331 sand & gravel	24
	4782 clay & refrac. mat.	43
	4860 slag	0
	4900 non-metal. min. nec	75
	5120 paper & paperboard	0
	7110 machinery (not elec)	0
	7120 electrical machinery	0
	7600 rubber & plastic pr.	0
	Total Tons(x1000)	142
DETROIT HARBOR, WI	2211 gasoline	1
	2330 distillate fuel oil	1
	2340 residual fuel oil	0
	2640 liquid natural gas	0
	4170 wood in the rough	0
	6134 fish (not shellfish)	0
	9900 unknown or nec	4
	Total Tons(x1000)	6
EAGLE HARBOR, MI	No Commerce Reported	
FRANKFORT HARBOR, MI	2430 asphalt, tar & pitch	125
	2540 petroleum coke	16
	Total Tons(x1000)	141

Other Harbors and Waterways 1999 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons
GLADSTONE HARBOR, MI	1100 coal lignite	97
	2430 asphalt, tar & pitch	25
	2540 petroleum coke	8
	4900 non-metal. min. nec	13
	Total Tons(x1000)	142
GRAND MARAIS HARBOR (HARBOR OF REFUGE), MI	No Commerce Reported	
GRAND MARAIS HARBOR, MN	No Commerce Reported	
GRAND TRAVERSE BAY HARBOR, MI	No Commerce Reported	
HARBOR BEACH, MI (HARBOR OF REFUGE, LAKE HURON)	1100 coal lignite	102
	Total Tons(x1000)	102
HARRISVILLE HARBOR, MI (HARBOR OF REFUGE, LAKE HURON)	No Commerce Reported	
KENOSHA HARBOR, WI	4331 sand & gravel	48
	Total Tons(x1000)	48
KEWAUNEE HARBOR, WI	No Commerce Reported	
KEWEENAW WATERWAY, MI	2211 gasoline	0
	4189 lumber	0
	4331 sand & gravel	1
	4420 iron & steel scrap	0
	5290 misc. mineral prod.	0
	5480 fab. metal products	0
	7110 machinery (not elec)	0
	7400 manufac. wood prod.	0
	8900 waste and scrap nec	0
	Total Tons(x1000)	1
Total Ton-miles(x1000)	12	
KNIFE RIVER HARBOR, MN	No Commerce Reported	
LA POINTE HARBOR, WI	2211 gasoline	0
	2330 distillate fuel oil	0
	2340 residual fuel oil	0
	2640 liquid natural gas	0
	7900 manufac. prod. nec	18
	Total Tons(x1000)	19
LAC LA BELLE HARBOR, MI	No Commerce Reported	
LELAND HARBOR, MI	No Commerce Reported	
LIME ISLAND, MI (INCLUDED IN ST. MARYS RIVER)	No Commerce Reported	
LUTSEN HARBOR, MN	No Commerce Reported	
MACKINAC HARBOR, MI	7900 manufac. prod. nec	10
	Total Tons(x1000)	10

Other Harbors and Waterways 1999 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons
MACKINAW CITY HARBOR, MI	7900 manufac. prod. nec	0
	Total Tons(x1000)	0
MANISTIQUE HARBOR, MI	2211 gasoline	1
	2330 distillate fuel oil	1
	Total Tons(x1000)	2
MENOMINEE HARBOR AND RIVER, MI AND WI	1100 coal lignite	21
	4225 pulp & waste paper	15
	4322 limestone	16
	4900 non-metal. min. nec	47
	5312 pig iron	66
	7110 machinery (not elec)	0
	7900 manufac. prod. nec	0
	Total Tons(x1000)	165
NEW BUFFALO HARBOR MI	No Commerce Reported	
OCONTO HARBOR, WI	No Commerce Reported	
ONTONAGON HARBOR, MI	1100 coal lignite	99
	Total Tons(x1000)	99
PENSAUKEE HARBOR, WI	No Commerce Reported	
PENTWATER HARBOR, MI	No Commerce Reported	
PORT SANILAC HARBOR, MI	No Commerce Reported	
PORT WING HARBOR, WI	No Commerce Reported	
PUT-IN-BAY HARBOR, OH	2211 gasoline	1
	2330 distillate fuel oil	1
	9900 unknown or nec	2
	Total Tons(x1000)	4
RACINE HARBOR, WI	No Commerce Reported	
ROGERS CITY, MI	No Commerce Reported	
SAUGATUCK HARBOR AND KALAMAZOO RIVER, MI	4331 sand & gravel	23
	Total Tons(x1000)	23
SAULT STE. MARIE, MI (INCLUDED IN ST. MARYS RIVER)	3250 organo - inorg. comp.	1
	3260 organic comp. nec	0
	3284 medicines	1
	3292 starches, gluten, glue	0
	4170 wood in the rough	2
	4331 sand & gravel	46
	4900 non-metal. min. nec	35
	5240 glass & glass prod.	0
	6654 vegetables & prod.	0
	6839 animals & prod. nec	1
	6858 fruit juices	0
	7110 machinery (not elec)	0
	7600 rubber & plastic pr.	0
	7900 manufac. prod. nec	2
	Total Tons(x1000)	89

Other Harbors and Waterways 1999 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons
SEBEWAING, MI	No Commerce Reported	
SHEBOYGAN HARBOR, WI	No Commerce Reported	
SOUTH HAVEN HARBOR, MI	No Commerce Reported	
ST. JAMES (BEAVER ISLAND), MI	2211 gasoline	1
	2330 distillate fuel oil	1
	9900 unknown or nec	17
	Total Tons(x1000)	19
STURGEON BAY AND LAKE MICHIGAN SHIP CANAL, WI	7110 machinery (not elec)	0
	Total Tons(x1000)	0
TRAVERSE CITY HARBOR, MI	2211 gasoline	208
	2330 distillate fuel oil	41
	Total Tons(x1000)	248
TRENTON, MI (INCLUDED IN PORT OF DETROIT)	1100 coal lignite	89
	2330 distillate fuel oil	24
	Total Tons(x1000)	114
TWO RIVERS HARBOR, WI	No Commerce Reported	
WARROAD HARBOR, MN	No Commerce Reported	
WHITE LAKE HARBOR, MI	No Commerce Reported	
WHITEFISH POINT HARBOR, MI	No Commerce Reported	
WYANDOTTE, MI (INCLUDED IN PORT OF DETROIT)	1100 coal lignite	115
	3276 metallic salts	9
	4322 limestone	9
	Total Tons(x1000)	133
Non-project		
ALABASTER, MI	4322 limestone	232
	4323 gypsum	551
	4327 phosphate rock	2
	4331 sand & gravel	21
	4782 clay & refrac. mat.	85
	4860 slag	5
	Total Tons(x1000)	895
MARBLEHEAD, OH	1100 coal lignite	17
	2211 gasoline	0
	2330 distillate fuel oil	0
	2640 liquid natural gas	0
	4161 wood chips	0
	4170 wood in the rough	0
	4189 lumber	0
	4322 limestone	3,042
	4331 sand & gravel	11
	4782 clay & refrac. mat.	39
	4900 non-metal. min. nec	10
5290 misc. mineral prod.	0	

Other Harbors and Waterways 1999 - continued

Harbor or Waterway	Commodity	Thousand Short Tons
Non-project		
MARBLEHEAD, OH - continued	5480 fab. metal products	0
	6887 groceries	0
	6889 food products nec	0
	6899 farm products nec	0
	7110 machinery (not elec)	0
	7210 vehicles & parts	0
	7400 manufac. wood prod.	0
	7900 manufac. prod. nec	0
	8900 waste and scrap nec	0
	9900 unknown or nec	0
	Total Tons(x1000)	3,121
PORT DOLOMITE, MI	1200 coal coke	8
	4322 limestone	3,065
	4331 sand & gravel	40
	4900 non-metal. min. nec	5
	Total Tons(x1000)	3,118
PORT GYPSUM, MI	4323 gypsum	489
	Total Tons(x1000)	489
PORT INLAND, MI	4322 limestone	5,536
	4331 sand & gravel	6
	4410 iron ore	29
	4900 non-metal. min. nec	94
	Total Tons(x1000)	5,665
SILVER BAY, MN	1100 coal lignite	339
	4322 limestone	278
	4410 iron ore	4,407
	Total Tons(x1000)	5,023

TOLEDO HARBOR, OH

Section Included: Channel in Lake Erie and 7 miles in lower Maumee River. Controlling Depths: 28 feet in the Bay Channel; 27 feet in The River Channel to the turning basin opposite the Mid-States Terminals, Inc. dock; thence 14 feet to the turning basin at the upper project limits with 13 feet in the turning basin; 20 feet in the turning basin at mile 3 and 27 feet in the turning basin at mile 6.5, project depths: 28 feet in bay and 27 feet in the river channel to the turning basin opposite the Mid-States Terminals, Inc. dock; thence 25 feet to the turning basin at upstream limits of the project with 18 feet in the turning basin; 20 feet in the turning basin at mile 3 and 27 feet in turning basin at mile 6.5. Navigation season: Approximately March 1 to December 31.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	14,668	1993	12,150	1996	13,032	1999	12,327
1991	12,073	1994	13,204	1997	14,422		
1992	12,722	1995	14,074	1998	13,229		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			Internal Shipments
		Imports*	Exports	Imports	Exports	Total	Lakewise		
							Receipts	Shipments	
Total, all commodities	12,327	445	240	1,144	4,590	5,907	3,556	2,347	3
Total coal	5,088	—	—	—	3,038	2,050	15	2,035	—
1100 coal lignite	5,060	—	—	—	3,028	2,032	—	2,032	—
1200 coal coke	28	—	—	—	10	18	15	3	—
Total petroleum and petroleum products	617	20	20	21	83	472	162	307	3
Subtotal petroleum products	617	20	20	21	83	472	162	307	3
2211 gasoline	93	—	—	18	—	75	—	75	—
2330 distillate fuel oil	61	—	—	—	6	55	5	50	—
2340 residual fuel oil	202	—	—	—	13	189	4	182	3
2350 lube oil & greases	12	—	—	—	12	—	—	—	—
2430 asphalt, tar & pitch	135	—	—	4	—	131	131	—	—
2540 petroleum coke	115	20	20	—	52	22	22	—	—
Total chemicals and related products	223	52	0	171	—	—	—	—	—
Subtotal fertilizers	194	37	—	157	—	—	—	—	—
3110 nitrogenous fert.	37	37	—	—	—	—	—	—	—
3130 potassic fert.	157	—	—	157	—	—	—	—	—
Subtotal other chemicals and related products	29	16	0	13	—	—	—	—	—
3212 benzene & toluene	13	—	—	13	—	—	—	—	—
3276 metallic salts	16	16	—	—	—	—	—	—	—
3284 medicines	0	—	0	—	—	—	—	—	—
Total crude materials, inedible except fuels	4,198	32	—	723	184	3,259	3,259	—	—
Subtotal soil, sand, gravel, rock and stone	595	—	—	438	143	14	14	—	—
4322 limestone	157	—	—	—	143	14	14	—	—
4331 sand & gravel	438	—	—	438	—	—	—	—	—
Subtotal iron ore and scrap	3,116	—	—	74	—	3,042	3,042	—	—
4410 iron ore	3,100	—	—	59	—	3,042	3,042	—	—
4420 iron & steel scrap	15	—	—	15	—	—	—	—	—
Subtotal non-ferrous ores and scrap	28	—	—	28	—	—	—	—	—
4680 non-ferrous scrap	28	—	—	28	—	—	—	—	—
Subtotal sulphur, clay and salt	75	32	—	42	—	—	—	—	—
4782 clay & refrac. mat.	75	32	—	42	—	—	—	—	—
Subtotal other non-metal. min.	385	—	—	141	41	203	203	—	—
4900 non-metal. min. nec	385	—	—	141	41	203	203	—	—

TOLEDO HARBOR, OH
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			Internal Shipments
		Imports*	Exports	Imports	Exports	Total	Lakewise		
							Receipts	Shipments	
Total primary manufactured goods	505	320	0	59	—	125	120	5	—
Subtotal lime, cement and glass	132	—	—	7	—	125	120	5	—
5220 cement & concrete	132	—	—	7	—	125	120	5	—
Subtotal primary iron and steel products	321	299	—	21	—	—	—	—	—
5312 pig iron	21	—	—	21	—	—	—	—	—
5320 i&s primary forms	9	9	—	—	—	—	—	—	—
5330 i&s plates & sheets	199	199	—	—	—	—	—	—	—
5360 i&s bars & shapes	91	91	—	—	—	—	—	—	—
5370 i&s pipe & tube	0	0	—	—	—	—	—	—	—
5390 primary i&s nec	0	0	—	—	—	—	—	—	—
Subtotal primary non-ferrous metal products	52	21	0	31	—	—	—	—	—
5422 aluminum	31	—	—	31	—	—	—	—	—
5429 smelted prod. nec	19	19	—	—	—	—	—	—	—
5480 fab. metal products	2	2	0	—	—	—	—	—	—
Total food and farm products	1,681	18	219	170	1,274	—	—	—	—
Subtotal grain	1,113	9	88	170	847	—	—	—	—
6241 wheat	28	—	28	—	—	—	—	—	—
6344 corn	899	—	53	—	847	—	—	—	—
6442 rice	7	—	7	—	—	—	—	—	—
6445 oats	179	9	—	170	—	—	—	—	—
Subtotal oilseeds	559	—	131	—	428	—	—	—	—
6522 soybeans	559	—	131	—	428	—	—	—	—
Subtotal processed grain and animal feed	0	—	0	—	—	—	—	—	—
6782 animal feed, prep.	0	—	0	—	—	—	—	—	—
Subtotal other agricultural products	9	9	—	—	—	—	—	—	—
6861 sugar	9	9	—	—	—	—	—	—	—
Total all manufactured equipment, machinery and products	14	2	1	0	11	—	—	—	—
7110 machinery (not elec)	3	2	1	—	—	—	—	—	—
7120 electrical machinery	0	0	0	—	—	—	—	—	—
7210 vehicles & parts	0	—	0	—	—	—	—	—	—
7230 ships & boats	11	—	—	0	11	—	—	—	—
7500 textile products	0	—	0	—	—	—	—	—	—
7600 rubber & plastic pr.	0	0	—	—	—	—	—	—	—
7900 manufac. prod. nec	0	0	0	—	—	—	—	—	—
Total unknown or not elsewhere classified	1	—	—	1	—	—	—	—	—
9900 unknown or nec	1	—	—	1	—	—	—	—	—

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

KELLEYS ISLAND, OH

Section Included: Entire area of Kelleys Island, Ohio. Controlling Depth: Unimproved, natural depths unknown. Project depth: Approach channel, 12 feet; Entrance channel, 10 feet; and remainder of channel, 8 to 10 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	6	1993	564	1996	371	1999	1,081
1991	503	1994	521	1997	1,170		
1992	564	1995	123	1998	1,173		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Lakewise	
		Receipts	Shipments
Total, all commodities	1,081	2	1,080
Total petroleum and petroleum products	0	0	---
Subtotal petroleum products	0	0	---
2211 gasoline	0	0	---
2330 distillate fuel oil	0	0	---
2640 liquid natural gas	0	0	---
Total crude materials, inedible except fuels	1,080	0	1,080
Subtotal forest products, wood and chips	0	0	---
4161 wood chips	0	0	---
4170 wood in the rough	0	0	---
4189 lumber	0	0	---
Subtotal soil, sand, gravel, rock and stone	1,080	---	1,080
4322 limestone	1,080	---	1,080
Total primary manufactured goods	0	0	---
Subtotal lime, cement and glass	0	0	---
5290 misc. mineral 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 other agricultural products	0	0	---
6887 groceries	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	0
7210 vehicles & parts	0	0	0
7400 manufac. wood prod.	0	0	---
7900 manufac. prod. nec	0	0	---
Total waste and scrap nec	0	---	0
8900 waste and scrap nec	0	---	0
Total unknown or not elsewhere classified	0	0	---
9900 unknown or nec	0	0	---

SANDUSKY HARBOR, OH

Section Included: Southeasterly portion of Sandusky Bay to and including passenger docks on Cedar Point. Controlling Depth: Mosely Channel, 26 feet; Bay Channel and Straight Channel from Mosely Channel to junction with Bay Channel, 25.0 feet; turning basin, 24 feet; Dock channel, 21 feet; Straight channel from dock channel to junction with Bay Channel, 21 feet. Project Depths: Mosely Channel, 26 feet; bay channel and Straight Channel from Mosely Channel to junction with Bay Channel, 25 feet; turning basin, 24 feet; Dock channel, 22 feet; and straight channel from dock channel to junction with Bay Channel, 21 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	4,600	1993	5,176	1996	3,408	1999	4,898
1991	4,018	1994	5,422	1997	4,403		
1992	5,179	1995	3,536	1998	4,334		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Canadian Exports	Domestic		
			Total	Lakewise	
				Receipts	Shipments
Total, all commodities	4,898	3,936	962	49	913
Total coal	4,800	3,888	912	---	912
1100 coal lignite	4,772	3,860	912	---	912
1200 coal coke	28	28	---	---	---
Total petroleum and petroleum products	0	---	0	---	0
Subtotal petroleum products	0	---	0	---	0
2211 gasoline	0	---	0	---	0

SANDUSKY HARBOR, OH
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Canadian	Domestic		
		Exports	Total	Lakewise	
				Receipts	Shipments
2330 distillate fuel oil	0	—	0	—	0
2640 liquid natural gas	0	—	0	—	0
Total chemicals and related products	0	—	0	—	0
Subtotal fertilizers	0	—	0	—	0
3110 nitrogenous fert.	0	—	0	—	0
Subtotal other chemicals and related products	0	—	0	—	0
3275 inorg. elem., oxides, & halogen salts	0	—	0	—	0
Total crude materials, inedible except fuels	96	47	49	48	1
Subtotal forest products, wood and chips	0	—	0	—	0
4189 lumber	0	—	0	—	0
Subtotal soil, sand, gravel, rock and stone	34	22	12	11	1
4322 limestone	5	—	5	4	1
4331 sand & gravel	29	22	7	7	—
Subtotal other non-metal. min.	63	26	37	37	—
4900 non-metal. min. nec	63	26	37	37	—
Total primary manufactured goods	0	—	0	—	0
Subtotal lime, cement and glass	0	—	0	—	0
5290 misc. mineral prod.	0	—	0	—	0
Subtotal primary non-ferrous metal products	0	—	0	—	0
5480 fab. metal products	0	—	0	—	0
Total food and farm products	2	1	1	1	—
Subtotal grain	1	1	—	—	—
6344 corn	1	1	—	—	—
Subtotal other agricultural products	1	—	1	1	—
6857 fruit & nuts nec	1	—	1	1	—
Total all manufactured equipment, machinery and products	0	—	0	0	0
7110 machinery (not elec)	0	—	0	—	0
7210 vehicles & parts	0	—	0	0	0
7400 manufac. wood prod.	0	—	0	—	0
7900 manufac. prod. nec	0	—	0	—	0
Total waste and scrap nec	0	—	0	0	—
8900 waste and scrap nec	0	—	0	0	—
Total unknown or not elsewhere classified	0	—	0	—	0
9900 unknown or nec	0	—	0	—	0

HURON HARBOR, OH

Section Included: Lake approach channel from deep water to a point opposite the outer end of east breakwater; entrance channel from its junction with the approach channel to its junction with the River Channel; River channel and turning basin to within 1,500 feet of the Penn Central Railroad Bridge. Controlling Depths: Lake approach and entrance channel, 27.5 feet; river channel, 27 feet; turning basin, 21 feet. Project Depths: Lake approach and entrance channels, 29 feet; river channel to Slip No. 1, 28 feet; from Slip No. 1 through eastern portion of the turning basin, 28 feet; turning basin, 22 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	565	1993	529	1996	1,004	1999	1,154
1991	524	1994	871	1997	856		
1992	618	1995	1,087	1998	1,192		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Lakewise Receipts
Total, all commodities	1,154	1,154
Total crude materials, inedible except fuels	1,154	1,154
Subtotal soil, sand, gravel, rock and stone	471	471
4322 limestone	471	471
Subtotal iron ore and scrap	683	683
4410 iron ore	683	683

LORAIN HARBOR, OH

Section Included: Outer Harbor and Black River from mouth to and including United States Steel Corp., National Tube Division dock, 3 miles. Controlling Depths: Lake Approach channel, 27.0 feet; A channel 800 feet wide through the Outer Harbor, 27 feet; remainder of Outer Harbor, 25 feet; lower 2,200 feet of River Channel, 25 feet; remainder of River Channel 24 feet except turning basin just downstream of the 21st Street Bridge which is 12 to 19 feet and the returning Basin opposite the U. S. Steel Corp., National Tube Division which is 12 to 20 feet. Project Depths: Lake Approach Channel, 29 feet; a channel 800 feet wide through the Outer Harbor, 28 feet; remainder of Outer Harbor, 25 feet; lower 2,200 feet of River Channel, 28 feet; remainder of River Channel, 27 feet; except turning basin downstream of 21st Street Bridge, 20 feet and turning basin opposite U. S. Steel Corp., National Tube Division Dock, 21 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	13,967	1993	13,677	1996	15,978	1999	12,968
1991	13,632	1994	14,748	1997	15,955		
1992	13,282	1995	14,964	1998	14,166		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Canadian Imports	Domestic		
			Total	Lakewise	
				Receipts	Shipments
Total, all commodities	12,968	274	12,694	7,372	5,322
Total coal	39	39	---	---	---
1200 coal coke	39	39	---	---	---
Total chemicals and related products	7	7	---	---	---
Subtotal fertilizers	7	7	---	---	---
3130 potassic fert.	7	7	---	---	---
Total crude materials, inedible except fuels	12,921	227	12,694	7,372	5,322
Subtotal soil, sand, gravel, rock and stone	590	84	506	499	7
4322 limestone	282	---	282	282	---
4323 gypsum	217	---	217	217	---
4331 sand & gravel	91	84	7	---	7
Subtotal iron ore and scrap	12,186	78	12,108	6,873	5,234
4410 iron ore	12,186	78	12,108	6,873	5,234
Subtotal non-ferrous ores and scrap	2	2	---	---	---
4650 aluminum ore	2	2	---	---	---
Subtotal sulphur, clay and salt	59	59	---	---	---
4782 clay & refrac. mat.	59	59	---	---	---
Subtotal slag	80	---	80	---	80
4860 slag	80	---	80	---	80
Subtotal other non-metal. min.	4	4	---	---	---
4900 non-metal. min. nec	4	4	---	---	---

CLEVELAND HARBOR, OH

Section Included: Outer Harbor, Old River and Cuyahoga River from mouth to and including Upper Republic Steel Corp. Dock, immediately downstream from Norfolk & Western Railway Bridge, 5.8 miles. Controlling Depth: Lake Approach Channel, 29 feet; entrance channel, West Basin and westerly 800 feet of East Basin, 28 feet; easterly 3800-foot length of East Basin, 27 feet; 500-foot channel through East Outer Harbor, 25 feet; channel between piers to Conrail Railroad Bridge, 27.0 feet; channel in Cuyahoga River from Penn Central Railroad to upper project limit, 22 feet; turning basin upstream from E.I. Dupont De Nemours And Company, Inc., Grasselli Chemical Division Dock, 19.5 feet; Old River to Sand Products Corporation Dock, 23 feet; remainder of Old River to upper project limit, 14 feet. Project Depth: Lake Approach Channel, 29 feet; West Basin, entrance channel and west end of East Basin, 28 feet; remaining 3800-foot length of East Basin, 27 feet; 500-foot channel through East Outer Harbor, 25 feet; lower Cuyahoga River from lakeward ends of the piers to immediately above junction with Old River, 27 feet; Old River to upper project limit, 27 feet; remainder of Cuyahoga River, 23 feet; turning basin upstream from E.I. Dupont De Nemours and Company, Inc., Grasselli Chemical Division Dock, 18 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	14,368	1993	14,083	1996	16,721	1999	15,540
1991	13,406	1994	15,284	1997	18,113		
1992	13,654	1995	15,393	1998	17,865		

Freight Traffic, 1999 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
Total, all commodities	3,101	669	18	2,112	302
Total coal	15	---	---	15	---
1200 coal coke	15	---	---	15	---
Total petroleum and petroleum products	24	---	0	16	8
Subtotal petroleum products	24	---	0	16	8
2340 residual fuel oil	16	---	---	16	---
2350 lube oil & greases	8	---	---	---	8
2410 petro. jelly & waxes	0	---	0	---	---
Total chemicals and related products	35	0	0	35	---
Subtotal other chemicals and related products	35	0	0	35	---
3276 metallic salts	35	0	0	35	---

CLEVELAND HARBOR, OH
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
3285 perfumes & cleansers	0	0	0	—	—
3292 starches, gluten, glue	0	—	0	—	—
3297 chemical additives	0	—	0	—	—
Total crude materials, inedible except fuels	1,339	0	15	1,036	288
Subtotal forest products, wood and chips	0	—	0	—	—
4170 wood in the rough	0	—	0	—	—
4189 lumber	0	—	0	—	—
Subtotal pulp and waste paper	0	—	0	—	—
4225 pulp & waste paper	0	—	0	—	—
Subtotal soil, sand, gravel, rock and stone	575	—	—	575	0
4331 sand & gravel	575	—	—	575	0
Subtotal iron ore and scrap	58	0	—	58	—
4410 iron ore	58	—	—	58	—
4420 iron & steel scrap	0	0	—	—	—
Subtotal sulphur, clay and salt	320	—	—	320	—
4782 clay & refrac. mat.	320	—	—	320	—
Subtotal other non-metal. min.	385	—	15	83	287
4900 non-metal. min. nec	385	—	15	83	287
Total primary manufactured goods	1,680	664	0	1,010	6
Subtotal lime, cement and glass	1,011	0	—	1,005	6
5220 cement & concrete	1,011	—	—	1,005	6
5240 glass & glass prod.	0	0	—	—	—
5290 misc. mineral prod.	0	0	—	—	—
Subtotal primary iron and steel products	668	662	—	5	—
5320 i&s primary forms	54	54	—	—	—
5330 i&s plates & sheets	499	493	—	5	—
5360 i&s bars & shapes	112	112	—	—	—
5370 i&s pipe & tube	1	1	—	—	—
5390 primary i&s nec	1	1	—	—	—
Subtotal primary non-ferrous metal products	2	2	0	—	—
5480 fab. metal products	2	2	0	—	—
Total food and farm products	0	0	0	—	—
Subtotal oilseeds	0	—	0	—	—
6522 soybeans	0	—	0	—	—
Subtotal other agricultural products	0	0	0	—	—
6822 dairy products	0	—	0	—	—
6858 fruit juices	0	—	0	—	—
6885 alcoholic beverages	0	0	0	—	—
Total all manufactured equipment, machinery and products	8	4	3	0	—
7110 machinery (not elec)	4	4	0	0	—
7120 electrical machinery	0	0	0	—	—
7210 vehicles & parts	3	0	3	—	—
7230 ships & boats	0	0	—	—	—
7400 manufac. wood prod.	0	—	0	—	—
7500 textile products	0	0	0	—	—
7600 rubber & plastic pr.	0	0	0	—	—
7900 manufac. prod. nec	0	0	0	—	—
Total unknown or not elsewhere classified	0	0	0	—	—
9900 unknown or nec	0	0	0	—	—

Commodity	Total	Domestic			
		Lakewise		Internal	
		Receipts	Shipments	Receipts	Intraport
Total, all commodities	12,439	11,178	871	2	388
Total coal	101	101	—	—	—
1100 coal lignite	91	91	—	—	—
1200 coal coke	9	9	—	—	—
Total petroleum and petroleum products	421	416	2	2	—
Subtotal petroleum products	421	416	2	2	—
2330 distillate fuel oil	6	6	—	—	—
2340 residual fuel oil	128	128	—	—	—
2350 lube oil & greases	2	—	—	2	—
2430 asphalt, tar & pitch	284	281	2	—	—
Total crude materials, inedible except fuels	11,803	10,546	868	—	388
Subtotal soil, sand, gravel, rock and stone	4,112	4,082	14	—	16
4322 limestone	3,966	3,936	14	—	16
4331 sand & gravel	147	147	—	—	—
Subtotal iron ore and scrap	6,813	6,464	—	—	349
4410 iron ore	6,813	6,464	—	—	349
Subtotal slag	67	—	67	—	—
4860 slag	67	—	67	—	—

CLEVELAND HARBOR, OH
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Total	Domestic			
		Lakewise		Internal	
		Receipts	Shipments	Receipts	Intraport
Subtotal other non-metal. min.	811	—	788	—	23
4900 non-metal. min. nec	811	—	788	—	23
Total primary manufactured goods	115	115	—	—	—
Subtotal lime, cement and glass	115	115	—	—	—
5220 cement & concrete	115	115	—	—	—

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

FAIRPORT HARBOR, OH

Section Included: Outer harbor and Grand River from mouth to and including Diamond Alkali Company Stone Dock, 1.5 miles. Controlling Depths: Entrance Channel, 24 feet; Outer Harbor, 24.0 feet; Grand River to upstream of Republic Steel, 19.0 feet; remaining length of Grand River to the upper project limit, 19 feet; except for 1,000 feet of the upstream end of the west side of the channel, 5 feet; turning basin, 15 feet. Maintenance Depths: Entrance channel and outer harbor, 25 feet; Grand River to upstream of Republic Steel, 24 feet; remaining length of Grand River to the upper project limits, 21 feet; turning basin, 18 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	2,320	1993	2,403	1996	2,770	1999	2,553
1991	2,052	1994	2,955	1997	3,296		
1992	2,613	1995	2,941	1998	2,880		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Canadian Exports	Domestic		
			Total	Lakewise	
				Receipts	Shipments
Total, all commodities	2,553	93	2,460	1,985	475
Total crude materials, inedible except fuels	2,553	93	2,460	1,985	475
Subtotal soil, sand, gravel, rock and stone	2,001	—	2,001	1,985	16
4322 limestone	1,918	—	1,918	1,901	16
4331 sand & gravel	83	—	83	83	—
Subtotal other non-metal. min.	551	93	458	—	458
4900 non-metal. min. nec	551	93	458	—	458

ASHTABULA HARBOR, OH

Section Included: Outer harbor and Ashtabula River from mouth to and including city of Ashtabula Dock (Former Great Lakes Engineering Works Dock), 1.75 miles. Controlling Depth: Westerly portion of outer harbor to inner breakwater & approach channel to docks east of inner breakwater, 26.0 feet turning basin in front of inner breakwater 21.5 feet; the approach to the Penn. Central Railroad Company's slip and the lower 2,000 feet of the Ashtabula River, 23 feet; thence to car ferry slip, 10 feet; thence to a point 1,550 feet upstream from turning basin and including turning basin, 3 feet. Project Depth: Entrance channel, 29 feet; westerly portion of outer harbor to inner breakwater, 28 feet; Approach Channel to docks east of inner breakwater, 28 feet; turning basin in the easterly portion of the outer harbor, 22 feet; channel from inside the Inner Breakwater to mouth of river and 2,000 feet upstream and approach channel to Penn. Central Railroad Company's slip, 27 feet; thence to car ferry slip, 18 feet; thence to a point 1,550 feet upstream from turning basin and including turning basin, 16 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	11,852	1993	8,979	1996	9,523	1999	10,495
1991	10,638	1994	10,368	1997	11,929		
1992	10,519	1995	10,010	1998	15,602		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports*	Exports	Imports	Exports	Total	Lakewise	
							Receipts	Shipments
Total, all commodities	10,495	253	32	731	4,651	4,828	3,652	1,177
Total coal	5,873	—	21	35	4,581	1,235	59	1,177
1100 coal lignite	5,791	—	—	—	4,555	1,235	59	1,177
1200 coal coke	82	—	21	35	26	—	—	—
Total chemicals and related products	4	—	—	4	—	—	—	—
Subtotal other chemicals and related products	4	—	—	4	—	—	—	—
3275 inorg. elem., oxides, & halogen salts	4	—	—	4	—	—	—	—

ASHTABULA HARBOR, OH
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports*	Exports	Imports	Exports	Total	Lakewise	
							Receipts	Shipments
Total crude materials, inedible except fuels	4,594	228	11	692	70	3,593	3,593	---
Subtotal soil, sand, gravel, rock and stone	610	---	---	5	---	604	604	---
4322 limestone	604	---	---	---	---	604	604	---
4331 sand & gravel	5	---	---	5	---	---	---	---
Subtotal iron ore and scrap	3,586	0	---	651	---	2,935	2,935	---
4410 iron ore	3,586	---	---	651	---	2,935	2,935	---
4420 iron & steel scrap	0	0	---	---	---	---	---	---
Subtotal non-ferrous ores and scrap	242	218	11	13	---	---	---	---
4680 non-ferrous scrap	161	161	---	---	---	---	---	---
4690 non-ferrous ores nec	81	57	11	13	---	---	---	---
Subtotal sulphur, clay and salt	10	10	---	---	---	---	---	---
4782 clay & refrac. mat.	10	10	---	---	---	---	---	---
Subtotal other non-metal. min.	146	---	---	22	70	54	54	---
4900 non-metal. min. nec	146	---	---	22	70	54	54	---
Total primary manufactured goods	25	25	---	---	---	---	---	---
Subtotal primary iron and steel products	25	25	---	---	---	---	---	---
5330 i&s plates & sheets	7	7	---	---	---	---	---	---
5360 i&s bars & shapes	17	17	---	---	---	---	---	---
Subtotal primary non-ferrous metal products	0	0	---	---	---	---	---	---
5480 fab. metal products	0	0	---	---	---	---	---	---
Total all manufactured equipment, machinery and products	0	0	---	---	---	---	---	---
7110 machinery (not elec)	0	0	---	---	---	---	---	---
7120 electrical machinery	0	0	---	---	---	---	---	---

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

CONNEAUT HARBOR, OH

Section Included: Outer harbor and Conneaut River 2,450 feet upstream of the outer end of the West Pier. Controlling Depth: Westerly portion of outer harbor, 20.5 feet; access channel to city dock, 7.5 feet; easterly portion of outer harbor 23 feet. Inner Harbor, 28.5 feet; Project Depth: Easterly portion of outer harbor, 28 feet; westerly portion of outer harbor, 22 feet; access channel to city dock 8 feet; Inner Harbor, 27 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	9,567	1993	3,534	1996	5,714	1999	8,868
1991	6,336	1994	5,655	1997	6,205		
1992	6,540	1995	5,612	1998	7,786		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	
					Receipts	Shipments
Total, all commodities	8,868	101	3,840	4,927	3,431	1,496
Total coal	5,292	3	3,792	1,496	---	1,496
1100 coal lignite	5,255	---	3,759	1,496	---	1,496
1200 coal coke	36	3	33	---	---	---
Total chemicals and related products	38	38	---	---	---	---
Subtotal other chemicals and related products	38	38	---	---	---	---
3275 inorg. elem., oxides, & halogen salts	38	38	---	---	---	---
Total crude materials, inedible except fuels	3,538	59	48	3,431	3,431	---
Subtotal soil, sand, gravel, rock and stone	846	---	22	824	824	---
4322 limestone	769	---	---	769	769	---
4323 gypsum	55	---	---	55	55	---
4327 phosphate rock	22	---	22	---	---	---
Subtotal iron ore and scrap	2,666	59	---	2,607	2,607	---
4410 iron ore	2,583	59	---	2,524	2,524	---
4420 iron & steel scrap	83	---	---	83	83	---
Subtotal other non-metal. min.	27	---	27	---	---	---
4900 non-metal. min. nec	27	---	27	---	---	---

ERIE HARBOR, PA

Section Included: Southerly side of Erie Harbor and Lake Erie water frontage from harbor entrance eastward to and including Sun Oil Co dock, 3.5 miles. Controlling Depth: Entrance channel, 29 feet; channel to easterly coal and ore docks, 27 feet; and 27 feet to the Port Authority Dock; harbor basin, 21 feet; westerly portion of harbor, 18 feet. Project Depth: Entrance channel, 29 feet; Approach Channel to easterly coal and ore docks, 28 feet; approach to Port Authority Docks, 27 feet; Harbor Basin, 21 feet; westerly portion of Harbor Basin, 18 feet. The approach channel from the 28 foot channel to and including turning basin at westerly docks has been authorized, but never completed and considered inactive at the present time.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	811	1993	1,160	1996	1,434	1999	1,136
1991	1,008	1994	979	1997	1,163		
1992	1,247	1995	1,057	1998	1,296		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign	Canadian	Domestic
		Imports	Imports	Lakewise Receipts
Total, all commodities	1,136	9	84	1,043
Total crude materials, inedible except fuels	1,122	0	79	1,043
Subtotal soil, sand, gravel, rock and stone	1,031	---	28	1,004
4322 limestone	751	---	---	751
4331 sand & gravel	280	---	28	253
Subtotal sulphur, clay and salt	12	---	12	---
4782 clay & refrac. mat.	12	---	12	---
Subtotal other non-metal. min.	78	0	39	39
4900 non-metal. min. nec	78	0	39	39
Total primary manufactured goods	15	9	6	---
Subtotal lime, cement and glass	9	9	---	---
5290 misc. mineral prod.	9	9	---	---
Subtotal primary iron and steel products	6	---	6	---
5312 pig iron	6	---	6	---
Total food and farm products	0	0	---	---
Subtotal other agricultural products	0	0	---	---
6835 fish, prepared	0	0	---	---
6894 natural fibers nec	0	0	---	---
Total all manufactured equipment, machinery and products	0	0	---	---
7110 machinery (not elec)	0	0	---	---

DUNKIRK HARBOR, NY

Section Included: City water frontage protected by west pier and breakwater west of Elk Street. Controlling depth: Entrance channel in lake, 17 feet; inner channel and basin, 16 feet. Project Depth: Entrance channel in lake, 17 feet; inner channel and basin, 16 feet. Navigation season: Opened 29 March; closed 18 December.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	0	1993	20	1996	398	1999	465
1991	0	1994	361	1997	446		
1992	0	1995	374	1998	535		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Lakewise Receipts
Total, all commodities	465	465
Total coal	465	465
1100 coal lignite	465	465

BUFFALO HARBOR, NY (INCLUDED IN PORT OF BUFFALO)

Section Included: Outer harbor, Lackawanna Canal, Union Canal. Buffalo River from mouth to Conrail R. Y. Bridge, 5.5 miles. Buffalo Ship Canal, and Black Rock Canal to the Black Rock Lock. Controlling Depths: Outer area of south entrance channel, 30 feet; south entrance channel 29.0 feet; southern portion of outer harbor, 28 feet; 900 feet wide section adjacent to the south breakwater beginning 2,000 feet north of the south breakwater and proceeding northerly 4,200 feet, 23 feet; thence 27 feet to the International Salt Company and 23 feet in the remainder of the outer harbor to the north; new north entrance channel, 25 feet; Black Rock Canal, 21 feet; Buffalo River Entrance, Buffalo River and Buffalo Ship Canal, 22 feet. Project Depth: Outer area of south entrance channel, 30 feet; south entrance channel 29 feet; southern portion of outer harbor, 28 feet; 900 feet wide section adjacent to the south breakwater beginning 2,000 feet north of the south breakwater and proceeding northerly 4,200 feet, 23 feet. Middle section of the outer harbor, 27 feet; north outer harbor, 23 feet; north entrance channel, 25 feet; Buffalo River entrance, Buffalo River and Buffalo Ship Canal, 22 feet. Black Rock Canal, 21 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	2,002	1993	1,539	1996	1,590	1999	1,804
1991	1,471	1994	1,399	1997	1,631		
1992	1,803	1995	1,507	1998	2,072		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise	
							Receipts	Shipments
Total, all commodities	1,804	3	61	500	147	1,094	1,084	9
Total coal	9	---	---	---	---	9	---	9
1200 coal coke	9	---	---	---	---	9	---	9
Total petroleum and petroleum products	79	---	0	9	69	---	---	---
Subtotal petroleum products	79	---	0	9	69	---	---	---
2211 gasoline	18	---	---	---	18	---	---	---
2221 kerosene	18	---	---	---	18	---	---	---
2330 distillate fuel oil	9	---	---	9	---	---	---	---
2350 lube oil & greases	11	---	0	---	11	---	---	---
2410 petro. jelly & waxes	0	---	0	---	---	---	---	---
2429 naphtha & solvents	0	---	0	---	---	---	---	---
2540 petroleum coke	22	---	---	---	22	---	---	---
Total chemicals and related products	7	0	7	0	0	---	---	---
Subtotal fertilizers	0	---	0	---	---	---	---	---
3190 fert. & mixes nec	0	---	0	---	---	---	---	---
Subtotal other chemicals and related products	7	0	7	0	0	---	---	---
3220 alcohols	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	1	---	1	---	---	---	---	---
3275 inorg. elem., oxides, & halogen salts	1	---	1	---	---	---	---	---
3276 metallic salts	0	---	0	---	---	---	---	---
3282 pigments & paints	1	0	1	---	---	---	---	---
3283 coloring mat. nec	0	0	---	---	---	---	---	---
3284 medicines	0	0	0	---	---	---	---	---
3285 perfumes & cleansers	2	0	2	0	0	---	---	---
3286 plastics	1	0	1	---	---	---	---	---
3291 pesticides	0	---	0	---	---	---	---	---
3292 starches, gluten, glue	0	0	0	---	---	---	---	---
3297 chemical additives	0	0	0	---	---	---	---	---
3299 chem. products nec	0	0	0	---	---	---	---	---
Total crude materials, inedible except fuels	1,195	0	15	277	57	846	846	---
Subtotal forest products, wood and chips	0	0	0	---	---	---	---	---
4189 lumber	0	---	0	---	---	---	---	---
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	510	---	0	---	---	509	509	---
4322 limestone	150	---	---	---	---	150	150	---
4323 gypsum	298	---	---	---	---	298	298	---
4331 sand & gravel	62	---	0	---	---	62	62	---
Subtotal iron ore and scrap	2	---	2	---	---	---	---	---
4420 iron & steel scrap	2	---	2	---	---	---	---	---
Subtotal non-ferrous ores and scrap	2	---	2	---	---	---	---	---
4650 aluminum ore	2	---	2	---	---	---	---	---
4680 non-ferrous scrap	0	---	0	---	---	---	---	---

BUFFALO HARBOR, NY (INCLUDED IN PORT OF BUFFALO)
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise	
							Receipts	Shipments
Subtotal sulphur, clay and salt	9	0	9	---	---	---	---	---
4782 clay & refrac. mat.	9	0	9	---	---	---	---	---
Subtotal slag	57	---	---	---	57	---	---	---
4860 slag	57	---	---	---	57	---	---	---
Subtotal other non-metal. min.	615	---	1	277	---	336	336	---
4900 non-metal. min. nec	615	---	1	277	---	336	336	---
Total primary manufactured goods	186	2	4	163	0	16	16	---
Subtotal paper products	1	0	1	---	---	---	---	---
5120 paper & paperboard	1	0	1	---	---	---	---	---
5190 paper products nec	0	0	0	---	---	---	---	---
Subtotal lime, cement and glass	180	0	1	163	0	16	16	---
5220 cement & concrete	179	---	---	163	---	16	16	---
5240 glass & glass prod.	0	---	0	---	0	---	---	---
5290 misc. mineral prod.	1	0	1	---	---	---	---	---
Subtotal primary iron and steel products	2	2	0	---	---	---	---	---
5330 i&s plates & sheets	0	0	0	---	---	---	---	---
5360 i&s bars & shapes	2	2	---	---	---	---	---	---
5370 i&s pipe & tube	0	0	0	---	---	---	---	---
5390 primary i&s nec	0	---	0	---	---	---	---	---
Subtotal primary non-ferrous metal products	3	0	3	0	0	---	---	---
5421 copper	0	---	0	---	---	---	---	---
5422 aluminum	0	0	0	---	0	---	---	---
5429 smelted prod. nec	0	0	0	---	---	---	---	---
5480 fab. metal products	2	0	2	0	---	---	---	---
Subtotal primary wood products	0	---	0	---	---	---	---	---
5540 primary wood prod.	0	---	0	---	---	---	---	---
Total food and farm products	295	0	3	50	19	222	222	---
Subtotal fish	1	0	---	---	1	---	---	---
6134 fish (not shellfish)	0	0	---	---	---	---	---	---
6136 shellfish	1	---	---	---	1	---	---	---
Subtotal grain	286	---	1	50	12	222	222	---
6241 wheat	272	---	0	50	---	222	222	---
6344 corn	13	---	1	---	12	---	---	---
6443 barley & rye	0	---	0	---	---	---	---	---
Subtotal oilseeds	1	---	1	---	---	---	---	---
6534 flaxseed	0	---	0	---	---	---	---	---
6590 oilseeds nec	1	---	1	---	---	---	---	---
Subtotal vegetable products	0	---	0	---	0	---	---	---
6654 vegetables & prod.	0	---	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	7	0	0	0	7	---	---	---
6811 meat, fresh, frozen	0	---	---	0	---	---	---	---
6857 fruit & nuts nec	0	---	0	---	---	---	---	---
6865 molasses	7	---	---	---	7	---	---	---
6871 coffee	0	0	---	---	---	---	---	---
6885 alcoholic beverages	0	---	0	---	---	---	---	---
6888 water & ice	0	---	0	---	---	---	---	---
6889 food products nec	0	0	0	---	---	---	---	---
Total all manufactured equipment, machinery and products	33	0	31	0	1	---	---	---
7110 machinery (not elec)	11	0	10	0	1	---	---	---
7120 electrical machinery	2	0	2	0	---	---	---	---
7210 vehicles & parts	13	0	13	---	---	---	---	---
7220 aircraft & parts	0	---	0	---	---	---	---	---
7230 ships & boats	0	---	0	0	---	---	---	---
7400 manufac. wood prod.	3	0	3	---	---	---	---	---
7500 textile products	0	0	0	0	---	---	---	---
7600 rubber & plastic pr.	1	0	1	0	0	---	---	---
7900 manufac. prod. nec	3	0	3	0	0	---	---	---
Total unknown or not elsewhere classified	0	0	---	0	---	---	---	---
9900 unknown or nec	0	0	---	0	---	---	---	---

NIAGARA RIVER, NY (INCLUDED IN PORT OF BUFFALO)

Section Included: Black Rock Channel north of the Black Rock Lock and Niagara River to and including American Oil Co. dock, 0.5 mile south of the Tonawanda city line, the northern limit of the Niagara River section of the Port of Buffalo. Controlling and Project Depths: 21 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	560	1993	570	1996	274	1999	271
1991	284	1994	286	1997	263		
1992	670	1995	365	1998	269		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Lakewise	
		Receipts	Shipments
Total, all commodities	271	264	7
Total coal	94	94	—
1100 coal lignite	94	94	—
Total petroleum and petroleum products	177	170	7
Subtotal petroleum products	177	170	7
2211 gasoline	18	18	—
2330 distillate fuel oil	10	10	—
2340 residual fuel oil	10	10	—
2430 asphalt, tar & pitch	139	132	7
Ton-miles (x1000)	1,886	1,886	0
Tons All Traffic (x1000)	271		
Ton-miles All Traffic (x1000)	1,886		

PORT OF BUFFALO, NY

Section Included: Outer harbor, Lackawanna Canal, Union Canal, Buffalo River from mouth to Conrail RY Bridge 5.5 miles, Buffalo Ship Canal, Black Rock Canal, Black Rock Lock, Black Rock Channel, Niagara River, and Tonawanda to and including Buffalo Oil Terminal, Inc. Dock, located about 2,000 feet north of turning basin, Tonawanda inner Harbor, and Tonawanda Creek Channel from mouth to Main Street Bridge. Controlling and Project Depths: See Buffalo Harbor, Niagara River and Tonawanda.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	2,563	1993	2,109	1996	1,864	1999	2,075
1991	1,895	1994	1,685	1997	1,894		
1992	2,473	1995	1,873	1998	2,341		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise	
							Receipts	Shipments
Total, all commodities	2,075	3	61	500	147	1,365	1,348	17
Total coal	104	—	—	—	—	104	94	9
1100 coal lignite	94	—	—	—	—	94	94	—
1200 coal coke	9	—	—	—	—	9	—	9
Total petroleum and petroleum products	256	—	0	9	69	177	170	7
Subtotal petroleum products	256	—	0	9	69	177	170	7
2211 gasoline	37	—	—	—	18	18	18	—
2221 kerosene	18	—	—	—	18	—	—	—
2330 distillate fuel oil	20	—	—	9	—	10	10	—
2340 residual fuel oil	10	—	—	—	—	10	10	—
2350 lube oil & greases	11	—	0	—	11	—	—	—
2410 petro. jelly & waxes	0	—	0	—	—	—	—	—
2429 naphtha & solvents	0	—	0	—	—	—	—	—
2430 asphalt, tar & pitch	139	—	—	—	—	139	132	7
2540 petroleum coke	22	—	—	—	22	—	—	—
Total chemicals and related products	7	0	7	0	0	—	—	—
Subtotal fertilizers	0	—	0	—	—	—	—	—
3190 fert. & mixes nec	0	—	0	—	—	—	—	—
Subtotal other chemicals and related products	7	0	7	0	0	—	—	—
3220 alcohols	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	1	—	1	—	—	—	—	—
3275 inorg. elem., oxides, & halogen salts	1	—	1	—	—	—	—	—

PORT OF BUFFALO, NY
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise	
							Receipts	Shipments
3276 metallic salts	0	—	0	—	—	—	—	—
3282 pigments & paints	1	0	1	—	—	—	—	—
3283 coloring mat. nec	0	0	—	—	—	—	—	—
3284 medicines	0	0	0	—	—	—	—	—
3285 perfumes & cleansers	2	0	2	0	0	—	—	—
3286 plastics	1	0	1	—	—	—	—	—
3291 pesticides	0	—	0	—	—	—	—	—
3292 starches, gluten, glue	0	0	0	—	—	—	—	—
3297 chemical additives	0	0	0	—	—	—	—	—
3299 chem. products nec	0	0	0	—	—	—	—	—
Total crude materials, inedible except fuels	1,195	0	15	277	57	846	846	—
Subtotal forest products, wood and chips	0	0	0	—	—	—	—	—
4189 lumber	0	—	0	—	—	—	—	—
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	510	—	0	—	—	509	509	—
4322 limestone	150	—	—	—	—	150	150	—
4323 gypsum	298	—	—	—	—	298	298	—
4331 sand & gravel	62	—	0	—	—	62	62	—
Subtotal iron ore and scrap	2	—	2	—	—	—	—	—
4420 iron & steel scrap	2	—	2	—	—	—	—	—
Subtotal non-ferrous ores and scrap	2	—	2	—	—	—	—	—
4650 aluminum ore	2	—	2	—	—	—	—	—
4680 non-ferrous scrap	0	—	0	—	—	—	—	—
Subtotal sulphur, clay and salt	9	0	9	—	—	—	—	—
4782 clay & refrac. mat.	9	0	9	—	—	—	—	—
Subtotal slag	57	—	—	—	57	—	—	—
4860 slag	57	—	—	—	57	—	—	—
Subtotal other non-metal. min.	615	—	1	277	—	336	336	—
4900 non-metal. min. nec	615	—	1	277	—	336	336	—
Total primary manufactured goods	186	2	4	163	0	16	16	—
Subtotal paper products	1	0	1	—	—	—	—	—
5120 paper & paperboard	1	0	1	—	—	—	—	—
5190 paper products nec	0	0	0	—	—	—	—	—
Subtotal lime, cement and glass	180	0	1	163	0	16	16	—
5220 cement & concrete	179	—	—	163	—	16	16	—
5240 glass & glass prod.	0	—	0	—	0	—	—	—
5290 misc. mineral prod.	1	0	1	—	—	—	—	—
Subtotal primary iron and steel products	2	2	0	—	—	—	—	—
5330 i&s plates & sheets	0	0	0	—	—	—	—	—
5360 i&s bars & shapes	2	2	—	—	—	—	—	—
5370 i&s pipe & tube	0	0	0	—	—	—	—	—
5390 primary i&s nec	0	—	0	—	—	—	—	—
Subtotal primary non-ferrous metal products	3	0	3	0	0	—	—	—
5421 copper	0	—	0	—	—	—	—	—
5422 aluminum	0	0	0	—	0	—	—	—
5429 smelted prod. nec	0	0	0	—	—	—	—	—
5480 fab. metal products	2	0	2	0	—	—	—	—
Subtotal primary wood products	0	—	0	—	—	—	—	—
5540 primary wood prod.	0	—	0	—	—	—	—	—
Total food and farm products	295	0	3	50	19	222	222	—
Subtotal fish	1	0	—	—	1	—	—	—
6134 fish (not shellfish)	0	0	—	—	—	—	—	—
6136 shellfish	1	—	—	—	1	—	—	—
Subtotal grain	286	—	1	50	12	222	222	—
6241 wheat	272	—	0	50	—	222	222	—
6344 corn	13	—	1	—	12	—	—	—
6443 barley & rye	0	—	0	—	—	—	—	—
Subtotal oilseeds	1	—	1	—	—	—	—	—
6534 flaxseed	0	—	0	—	—	—	—	—
6590 oilseeds nec	1	—	1	—	—	—	—	—
Subtotal vegetable products	0	—	0	—	0	—	—	—
6654 vegetables & prod.	0	—	0	—	0	—	—	—
Subtotal processed grain and animal feed	0	—	0	—	—	—	—	—
6747 grain mill products	0	—	0	—	—	—	—	—
6782 animal feed, prep.	0	—	0	—	—	—	—	—

PORT OF BUFFALO, NY
Freight Traffic, 1999 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise	
							Receipts	Shipments
Subtotal other agricultural products	7	0	0	0	7	---	---	---
6811 meat, fresh, frozen	0	---	---	0	---	---	---	---
6857 fruit & nuts nec	0	---	0	---	---	---	---	---
6865 molasses	7	---	---	---	7	---	---	---
6871 coffee	0	0	---	---	---	---	---	---
6885 alcoholic beverages	0	---	0	---	---	---	---	---
6888 water & ice	0	---	0	---	---	---	---	---
6889 food products nec	0	0	0	---	---	---	---	---
Total all manufactured equipment, machinery and products	33	0	31	0	1	---	---	---
7110 machinery (not elec)	11	0	10	0	1	---	---	---
7120 electrical machinery	2	0	2	0	---	---	---	---
7210 vehicles & parts	13	0	13	---	---	---	---	---
7220 aircraft & parts	0	---	0	---	---	---	---	---
7230 ships & boats	0	---	0	0	---	---	---	---
7400 manufac. wood prod.	3	0	3	---	---	---	---	---
7500 textile products	0	0	0	0	---	---	---	---
7600 rubber & plastic pr.	1	0	1	0	0	---	---	---
7900 manufac. prod. nec	3	0	3	0	0	---	---	---
Total unknown or not elsewhere classified	0	0	---	0	---	---	---	---
9900 unknown or nec	0	0	---	0	---	---	---	---

OSWEGO HARBOR, NY

Section Included: Outer Harbor and Oswego River from mouth to Seneca Street. Controlling Depths: Lake approach channel, 27 feet; channel through outer harbor, 24 feet; east and west side of outer harbor, 21 feet; Oswego River channel, 24 feet. Project Depths: Lake approach channel, 27 feet; channel through outer harbor, 25 feet; lower 1,600 feet of Oswego River channel, 24 feet; remainder of Oswego River channel and Oswego Harbor, 21 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	951	1993	506	1996	511	1999	805
1991	818	1994	474	1997	640		
1992	582	1995	435	1998	471		

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian
		Imports	Exports	Imports
Total, all commodities	805	41	2	762
Total petroleum and petroleum products	104	---	0	104
Subtotal petroleum products	104	---	0	104
2340 residual fuel oil	48	---	---	48
2410 petro. jelly & waxes	0	---	0	---
2429 naphtha & solvents	0	---	0	---
2540 petroleum coke	56	---	---	56
Total chemicals and related products	48	---	0	48
Subtotal fertilizers	19	---	---	19
3110 nitrogenous fert.	5	---	---	5
3130 potassic fert.	14	---	---	14
Subtotal other chemicals and related products	29	---	0	29
3220 alcohols	0	---	0	---
3275 inorg. elem., oxides, & halogen salts	0	---	0	---
3276 metallic salts	29	---	---	29
3285 perfumes & cleansers	0	---	0	---
3286 plastics	0	---	0	---
3292 starches, gluten, glue	0	---	0	---
3298 wood & resin chem.	0	---	0	---
3299 chem. products nec	0	---	0	---
Total crude materials, inedible except fuels	271	---	0	271
Subtotal forest products, wood and chips	0	---	0	---
4190 forest products nec	0	---	0	---
Subtotal other non-metal. min.	271	---	---	271
4900 non-metal. min. nec	271	---	---	271
Total primary manufactured goods	380	41	0	338
Subtotal lime, cement and glass	338	---	---	338
5220 cement & concrete	338	---	---	338
Subtotal primary non-ferrous metal products	41	41	0	---
5422 aluminum	41	41	---	---
5480 fab. metal products	0	---	0	---

OSWEGO HARBOR, NY
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian
		Imports	Exports	Imports
Total all manufactured equipment, machinery and products	2	—	1	1
7110 machinery (not elec)	1	—	1	—
7120 electrical machinery	1	—	0	1
7210 vehicles & parts	0	—	0	—
7230 ships & boats	0	—	—	0

Other Harbors and Waterways 1999

Harbor or Waterway Project	Commodity	Thousand Short Tons
BARCELONA HARBOR, NY	No Commerce Reported	
CAPE VINCENT, NY	No Commerce Reported	
GREAT SODUS BAY HARBOR, NY	No Commerce Reported	
NIAGARA FALLS, NY	No Commerce Reported	
OGDENSBURG HARBOR, NY	1200 coal coke	6
	3250 organo - inorg. comp.	0
	3275 inorg. elem., oxides, & halogen salts	0
	3284 medicines	0
	3286 plastics	1
	3291 pesticides	0
	4690 non-ferrous ores nec	1
	4900 non-metal. min. nec	181
	5120 paper & paperboard	0
	5480 fab. metal products	0
	6134 fish (not shellfish)	0
	6344 corn	52
	6522 soybeans	1
	6781 hay & fodder	1
	6811 meat, fresh, frozen	0
	6857 fruit & nuts nec	0
7120 electrical machinery	0	
7600 rubber & plastic pr.	0	
	Total Tons(x1000)	243
PORT CLINTON HARBOR, OH	No Commerce Reported	
ROCHESTER (CHARLOTTE) HARBOR, NY	No Commerce Reported	
SACKETS HARBOR, NY	6747 grain mill products	0
	7110 machinery (not elec)	0
	Total Tons(x1000)	0
TONAWANDA HARBOR, NY (INCLUDED IN PORT OF BUFFALO)	No Commerce Reported	
VERMILION HARBOR, OH	No Commerce Reported	
WADDINGTON HARBOR, NY	No Commerce Reported	

ILLINOIS RIVER, IL (INCLUDED IN THE ILLINOIS WATERWAY CONSOLIDATED)

Section Included: Mouth of Illinois River, Grafton, IL, to Lockport, IL, 291.9 miles. Controlling Depth: 9 feet. Project Depths: 9 feet at low water stages.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	39,659	1993	42,600	1996	39,679	1999	40,685
1991	39,800	1994	45,265	1997	38,619		
1992	39,741	1995	41,734	1998	38,641*		

* Revised after original year of publication

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	40,685	5,601	831	1,954	20,466	8,634	3,120	52	26
Total coal	2,760	1,202	3	—	18	1,472	64	—	—
1100 coal lignite	2,298	1,162	2	—	7	1,110	18	—	—
1200 coal coke	461	40	1	—	11	363	46	—	—
Total petroleum and petroleum products	4,541	656	148	387	1,155	850	1,330	12	5
Subtotal petroleum products	4,541	656	148	387	1,155	850	1,330	12	5
2211 gasoline	257	236	—	—	—	20	—	—	—
2221 kerosene	1	1	—	—	—	—	—	—	—
2330 distillate fuel oil	599	43	18	26	20	178	314	—	—
2340 residual fuel oil	662	78	72	83	225	70	134	—	—
2350 lube oil & greases	298	65	—	—	1	200	31	—	—
2429 naphtha & solvents	112	78	—	—	—	26	7	—	—
2430 asphalt, tar & pitch	821	137	19	154	129	123	247	12	—
2540 petroleum coke	1,774	6	33	123	780	233	595	—	5
2990 petro. products nec	18	11	5	—	—	—	1	—	—
Total chemicals and related products	4,412	2,162	32	219	469	1,295	180	33	20
Subtotal fertilizers	1,108	849	—	18	134	54	7	26	20
3110 nitrogenous fert.	562	483	—	18	13	43	3	3	—
3120 phosphatic fert.	54	44	—	—	—	8	3	—	—
3130 potassic fert.	218	58	—	0	118	—	2	21	20
3190 fert. & mixes nec	273	265	—	—	3	3	—	3	—
Subtotal other chemicals and related products	3,304	1,314	32	202	336	1,241	173	7	—
3211 acyclic hydrocarbons	0	0	—	—	—	—	—	—	—
3212 benzene & toluene	104	2	—	—	—	5	97	—	—
3219 other hydrocarbons	932	816	22	—	—	85	8	—	—
3220 alcohols	1,144	83	10	200	332	478	33	7	—
3230 carboxylic acids	27	27	—	—	—	—	—	—	—
3240 nitrogen func. comp.	1	—	—	—	—	1	—	—	—
3260 organic comp. nec	67	8	—	—	—	46	13	—	—
3273 ammonia	259	259	—	—	—	—	—	—	—
3274 sodium hydroxide	547	—	—	—	1	546	—	—	—
3275 inorg. elem., oxides, & halogen salts	82	41	—	—	—	41	—	—	—
3276 metallic salts	57	12	—	2	—	23	20	—	—
3279 inorganic chem. nec	82	63	—	—	2	18	—	—	—
3297 chemical additives	1	1	—	—	—	—	—	—	—

ILLINOIS RIVER, IL (INCLUDED IN THE ILLINOIS WATERWAY CONSOLIDATED)
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Grand Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total crude materials, inedible except fuels	4,452	824	590	1,348	19	1,207	461	3	---
Subtotal forest products, wood and chips	245	119	---	---	---	126	---	---	---
4161 wood chips	229	113	---	---	---	116	---	---	---
4190 forest products nec	15	6	---	---	---	9	---	---	---
Subtotal soil, sand, gravel, rock and stone	2,077	119	485	1,342	17	108	3	3	---
4322 limestone	136	88	---	---	---	46	---	2	---
4323 gypsum	9	---	---	---	---	9	---	---	---
4331 sand & gravel	1,915	26	485	1,342	17	41	3	1	---
4335 waterway improv. mat	17	5	---	---	---	12	---	---	---
Subtotal iron ore and scrap	802	232	104	---	1	165	300	---	---
4410 iron ore	131	16	---	---	---	80	34	---	---
4420 iron & steel scrap	671	216	104	---	1	84	266	---	---
Subtotal non-ferrous ores and scrap	81	16	---	---	2	63	---	---	---
4650 aluminum ore	4	1	---	---	---	2	---	---	---
4670 manganese ore	58	7	---	---	---	51	---	---	---
4690 non-ferrous ores nec	20	8	---	---	2	10	---	---	---
Subtotal sulphur, clay and salt	40	23	---	---	---	16	1	---	---
4782 clay & refrac. mat.	40	23	---	---	---	16	1	---	---
Subtotal slag	255	---	---	6	---	93	156	---	---
4860 slag	255	---	---	6	---	93	156	---	---
Subtotal other non-metal. min.	952	314	2	---	---	636	---	---	---
4900 non-metal. min. nec	952	314	2	---	---	636	---	---	---
Total primary manufactured goods	4,789	662	58	---	48	3,713	306	---	2
Subtotal lime, cement and glass	1,549	172	---	---	---	1,359	16	---	2
5210 lime	6	---	---	---	---	6	---	---	---
5220 cement & concrete	1,540	172	---	---	---	1,353	13	---	2
5240 glass & glass prod.	3	---	---	---	---	---	3	---	---
Subtotal primary iron and steel products	3,003	457	58	---	46	2,162	280	---	---
5312 pig iron	842	277	---	---	---	561	4	---	---
5315 ferro alloys	213	5	---	---	1	207	---	---	---
5320 i&s primary forms	277	10	---	---	---	266	1	---	---
5330 i&s plates & sheets	958	88	58	---	4	651	158	---	---
5360 i&s bars & shapes	264	71	---	---	41	151	---	---	---
5370 i&s pipe & tube	14	---	---	---	---	13	0	---	---
5390 primary i&s nec	434	6	---	---	---	312	116	---	---
Subtotal primary non-ferrous metal products	225	33	---	---	2	180	10	---	---
5421 copper	1	---	---	---	---	1	---	---	---
5422 aluminum	16	9	---	---	---	6	---	---	---
5429 smelted prod. nec	91	2	---	---	2	87	---	---	---
5480 fab. metal products	118	22	---	---	---	85	10	---	---
Subtotal primary wood products	12	---	---	---	---	12	---	---	---
5540 primary wood prod.	12	---	---	---	---	12	---	---	---

ILLINOIS RIVER, IL (INCLUDED IN THE ILLINOIS WATERWAY CONSOLIDATED)
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Grand Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total food and farm products	19,705	92	---	---	18,752	83	775	4	---
Subtotal grain	13,579	17	---	---	13,081	---	477	3	---
6241 wheat	294	3	---	---	268	---	23	---	---
6344 corn	13,266	5	---	---	12,803	---	455	3	---
6442 rice	9	9	---	---	---	---	---	---	---
6447 sorghum grains	9	---	---	---	9	---	---	---	---
Subtotal oilseeds	4,625	21	---	---	4,319	---	284	1	---
6522 soybeans	4,591	3	---	---	4,303	---	284	1	---
6590 oilseeds nec	34	17	---	---	17	---	---	---	---
Subtotal vegetable products	108	---	---	---	108	---	---	---	---
6653 vegetable oils	108	---	---	---	108	---	---	---	---
Subtotal processed grain and animal feed	1,236	17	---	---	1,206	---	13	---	---
6747 grain mill products	15	---	---	---	15	---	---	---	---
6782 animal feed, prep.	1,221	17	---	---	1,190	---	13	---	---
Subtotal other agricultural products	157	37	---	---	38	83	---	---	---
6861 sugar	64	---	---	---	---	64	---	---	---
6865 molasses	51	33	---	---	---	19	---	---	---
6885 alcoholic beverages	42	4	---	---	38	---	---	---	---
Total all manufactured equipment, machinery and products	25	4	---	---	5	13	4	---	---
7110 machinery (not elec)	13	0	---	---	---	10	2	---	---
7400 manufac. wood prod.	3	---	---	---	---	3	---	---	---
7500 textile products	3	3	---	---	---	---	---	---	---
7600 rubber & plastic pr.	6	---	---	---	5	---	2	---	---
Ton-miles (x1000)	8,420,222	1,092,209	93,660	104,251	3,703,398	2,512,402	907,944	4,821	1,536
Tons All Traffic (x1000)				40,685					
Ton-miles All Traffic (x1000)				8,420,222					

CALUMET-SAG CHANNEL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)

Section Included: Calumet-Sag Channel from its junction with Chicago Sanitary and Ship Canal to Blue Island, Little Calumet and Calumet Rivers to Turning Basin No. 5 (130th Street Bridge). Project Depth: 9 feet.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	7,621	1993	7,430	1996	12,636	1999	7,449
1991	7,367	1994	12,874	1997	10,041		
1992	7,633	1995	12,077	1998	8,808*		

* Revised after original year of publication

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Internal					
		Inbound		Outbound		Through	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	7,449	201	70	8	366	5,142	1,663
Total coal	1,447	2	---	---	3	1,409	34
1100 coal lignite	1,078	---	---	---	3	1,059	17
1200 coal coke	369	2	---	---	---	351	17
Total petroleum and petroleum products	1,552	7	17	8	322	633	565
Subtotal petroleum products	1,552	7	17	8	322	633	565
2211 gasoline	7	7	---	---	---	---	---
2330 distillate fuel oil	61	---	---	---	---	16	45
2340 residual fuel oil	223	---	---	3	101	102	18
2350 lube oil & greases	36	---	---	---	---	1	34

CALUMET-SAG CHANNEL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Grand Total	Internal					
		Inbound		Outbound		Through	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
2430 asphalt, tar & pitch	537	—	4	2	205	100	226
2540 petroleum coke	686	—	14	3	16	412	242
2990 petro. products nec	2	—	—	—	—	2	—
Total chemicals and related products	498	140	53	—	16	158	131
Subtotal fertilizers	65	—	—	—	—	58	7
3110 nitrogenous fert.	54	—	—	—	—	51	3
3120 phosphatic fert.	6	—	—	—	—	3	3
3130 potassic fert.	2	—	—	—	—	0	2
3190 fert. & mixes nec	3	—	—	—	—	3	—
Subtotal other chemicals and related products	433	140	53	—	16	101	124
3212 benzene & toluene	45	—	11	—	—	—	34
3219 other hydrocarbons	23	—	—	—	—	23	—
3220 alcohols	269	133	42	—	16	25	53
3260 organic comp. nec	13	—	—	—	—	—	13
3274 sodium hydroxide	17	—	—	—	—	17	—
3276 metallic salts	47	7	—	—	—	18	23
3279 inorganic chem. nec	18	—	—	—	—	18	—
Total crude materials, inedible except fuels	1,014	18	—	—	12	637	347
Subtotal forest products, wood and chips	17	—	—	—	—	17	—
4161 wood chips	7	—	—	—	—	7	—
4190 forest products nec	9	—	—	—	—	9	—
Subtotal soil, sand, gravel, rock and stone	155	18	—	—	—	53	84
4322 limestone	46	15	—	—	—	31	—
4323 gypsum	9	—	—	—	—	9	—
4331 sand & gravel	48	3	—	—	—	12	33
4335 waterway improv. mat	52	—	—	—	—	—	52
Subtotal iron ore and scrap	296	—	—	—	12	165	119
4410 iron ore	115	—	—	—	—	80	34
4420 iron & steel scrap	182	—	—	—	12	84	85
Subtotal non-ferrous ores and scrap	61	—	—	—	—	61	—
4650 aluminum ore	2	—	—	—	—	2	—
4670 manganese ore	48	—	—	—	—	48	—
4690 non-ferrous ores nec	10	—	—	—	—	10	—
Subtotal sulphur, clay and salt	16	—	—	—	—	15	1
4782 clay & refrac. mat.	16	—	—	—	—	15	1
Subtotal slag	229	—	—	—	—	89	140
4860 slag	229	—	—	—	—	89	140
Subtotal other non-metal. min.	240	—	—	—	—	239	2
4900 non-metal. min. nec	240	—	—	—	—	239	2
Total primary manufactured goods	2,631	18	—	—	5	2,257	351
Subtotal lime, cement and glass	274	12	—	—	—	249	13
5210 lime	6	6	—	—	—	—	—
5220 cement & concrete	268	6	—	—	—	249	13
Subtotal primary iron and steel products	2,196	6	—	—	3	1,856	331
5312 pig iron	553	5	—	—	—	544	4
5315 ferro alloys	207	—	—	—	—	207	—
5320 i&s primary forms	264	—	—	—	—	263	1
5330 i&s plates & sheets	707	—	—	—	—	492	215
5360 i&s bars & shapes	68	—	—	—	—	68	—
5370 i&s pipe & tube	3	—	—	—	—	3	—
5390 primary i&s nec	394	2	—	—	3	279	110
Subtotal primary non-ferrous metal products	161	—	—	—	2	152	7
5421 copper	1	—	—	—	—	1	—
5422 aluminum	6	—	—	—	—	6	—
5429 smelted prod. nec	72	—	—	—	—	72	—
5480 fab. metal products	81	—	—	—	2	73	7
Total food and farm products	297	16	—	—	9	40	233
Subtotal grain	150	—	—	—	—	—	150
6241 wheat	1	—	—	—	—	—	1
6344 corn	148	—	—	—	—	—	148
Subtotal oilseeds	78	—	—	—	—	—	78
6522 soybeans	78	—	—	—	—	—	78
Subtotal processed grain and animal feed	13	—	—	—	9	—	5
6782 animal feed, prep.	13	—	—	—	9	—	5
Subtotal other agricultural products	56	16	—	—	—	40	—
6861 sugar	37	—	—	—	—	37	—
6865 molasses	19	16	—	—	—	3	—

CALUMET-SAG CHANNEL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Grand Total	Internal					
		Inbound		Outbound		Through	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total all manufactured equipment, machinery and products	10	---	---	---	---	7	3
7110 machinery (not elec)	10	---	---	---	---	7	3
Ton-miles (x1000)	171,986	2,910	711	84	4,969	123,402	39,911
Tons All Traffic (x1000)	7,449						
Ton-miles All Traffic (x1000)	171,986						

CHICAGO SANITARY AND SHIP CANAL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)

Section Included: Chicago Sanitary and Ship Canal. Damen Avenue, Chicago to Lockport, IL. Project Depth: 9 feet at low water stages.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	18,643	1993	18,813	1996	20,493	1999	17,500
1991	18,763	1994	24,591	1997	18,900		
1992	17,966	1995	19,704	1998	18,185*		

* Revised after original year of publication

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	17,500	5,877	151	1,316	2,551	5,281	1,567	579	179
Total coal	1,548	68	---	7	31	1,405	36	1	---
1100 coal lignite	1,129	51	---	---	---	1,059	20	---	---
1200 coal coke	418	17	---	7	31	346	17	1	---
Total petroleum and petroleum products	3,839	1,366	72	181	1,241	313	401	85	179
Subtotal petroleum products	3,839	1,366	72	181	1,241	313	401	85	179
2211 gasoline	20	13	---	---	---	7	---	---	---
2330 distillate fuel oil	728	246	19	5	345	---	3	15	96
2340 residual fuel oil	575	225	8	13	259	---	46	5	18
2350 lube oil & greases	240	203	1	2	3	---	30	---	1
2429 naphtha & solvents	37	26	---	---	7	---	---	3	---
2430 asphalt, tar & pitch	862	411	37	---	103	54	209	23	25
2540 petroleum coke	1,367	244	6	161	516	251	113	39	39
2990 petro. products nec	9	---	---	---	9	---	---	---	---
Total chemicals and related products	1,896	1,267	79	1	115	295	100	40	---
Subtotal fertilizers	79	14	---	---	---	58	7	---	---
3110 nitrogenous fert.	64	10	---	---	---	51	3	---	---
3120 phosphatic fert.	11	4	---	---	---	3	3	---	---
3130 potassic fert.	2	---	---	---	---	0	2	---	---
3190 fert. & mixes nec	3	---	---	---	---	3	---	---	---
Subtotal other chemicals and related products	1,817	1,253	79	1	115	238	92	40	---
3212 benzene & toluene	102	5	---	---	63	---	34	---	---
3219 other hydrocarbons	136	62	---	---	31	23	---	20	---
3220 alcohols	771	550	---	1	3	157	40	20	---
3240 nitrogen func. comp.	1	1	---	---	---	---	---	---	---
3260 organic comp. nec	59	46	---	---	---	---	13	---	---

CHICAGO SANITARY AND SHIP CANAL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Grand Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
3274 sodium hydroxide	546	529	—	—	—	17	—	—	—
3275 inorg. elem., oxides, & halogen salts	41	41	—	—	—	—	—	—	—
3276 metallic salts	144	20	79	—	18	23	5	—	—
3279 inorganic chem. nec	18	—	—	—	—	18	—	—	—
Total crude materials, inedible except fuels	5,267	1,710	—	1,127	623	927	429	452	—
Subtotal forest products, wood and chips	126	109	—	—	—	17	—	—	—
4161 wood chips	116	109	—	—	—	7	—	—	—
4190 forest products nec	9	—	—	—	—	9	—	—	—
Subtotal soil, sand, gravel, rock and stone	3,565	1,224	—	1,127	485	307	3	419	—
4322 limestone	46	—	—	—	—	46	—	—	—
4323 gypsum	9	—	—	—	—	9	—	—	—
4331 sand & gravel	3,446	1,208	—	1,127	485	205	3	419	—
4335 waterway improv. mat	64	17	—	—	—	47	—	—	—
Subtotal iron ore and scrap	569	—	—	—	122	165	282	—	—
4410 iron ore	115	—	—	—	—	80	34	—	—
4420 iron & steel scrap	454	—	—	—	122	84	248	—	—
Subtotal non-ferrous ores and scrap	63	3	—	—	—	61	—	—	—
4650 aluminum ore	2	—	—	—	—	2	—	—	—
4670 manganese ore	51	3	—	—	—	48	—	—	—
4690 non-ferrous ores nec	10	—	—	—	—	10	—	—	—
Subtotal sulphur, clay and salt	17	1	—	—	—	15	1	—	—
4782 clay & refrac. mat.	17	1	—	—	—	15	1	—	—
Subtotal slag	255	10	—	—	16	89	140	—	—
4860 slag	255	10	—	—	16	89	140	—	—
Subtotal other non-metal. min.	671	362	—	—	—	274	2	34	—
4900 non-metal. min. nec	671	362	—	—	—	274	2	34	—
Total primary manufactured goods	4,077	1,435	—	—	7	2,278	357	—	—
Subtotal lime, cement and glass	1,375	1,098	—	—	3	261	13	—	—
5210 lime	6	—	—	—	—	6	—	—	—
5220 cement & concrete	1,366	1,098	—	—	—	255	13	—	—
5240 glass & glass prod.	3	—	—	—	3	—	—	—	—
Subtotal primary iron and steel products	2,499	296	—	—	2	1,866	335	—	—
5312 pig iron	565	12	—	—	—	549	4	—	—
5315 ferro alloys	207	—	—	—	—	207	—	—	—
5320 i&s primary forms	267	3	—	—	—	263	1	—	—
5330 i&s plates & sheets	866	156	—	—	1	495	215	—	—
5360 i&s bars & shapes	151	84	—	—	—	68	—	—	—
5370 i&s pipe & tube	14	11	—	—	0	3	—	—	—
5390 primary i&s nec	428	31	—	—	1	281	114	—	—
Subtotal primary non-ferrous metal products	190	28	—	—	2	152	9	—	—
5421 copper	1	—	—	—	—	1	—	—	—
5422 aluminum	6	—	—	—	—	6	—	—	—

CHICAGO SANITARY AND SHIP CANAL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Grand Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
5429 smelted prod. nec	87	15	—	—	—	72	—	—	—
5480 fab. metal products	96	13	—	—	2	73	9	—	—
Subtotal primary wood products	12	12	—	—	—	—	—	—	—
5540 primary wood prod.	12	12	—	—	—	—	—	—	—
Total food and farm products	857	27	—	—	533	56	241	—	—
Subtotal grain	477	—	—	—	328	—	150	—	—
6241 wheat	23	—	—	—	21	—	1	—	—
6344 corn	455	—	—	—	306	—	148	—	—
Subtotal oilseeds	284	—	—	—	206	—	78	—	—
6522 soybeans	284	—	—	—	206	—	78	—	—
Subtotal processed grain and animal feed	13	—	—	—	—	—	13	—	—
6782 animal feed, prep.	13	—	—	—	—	—	13	—	—
Subtotal other agricultural products	83	27	—	—	—	56	—	—	—
6861 sugar	64	27	—	—	—	37	—	—	—
6865 molasses	19	—	—	—	—	19	—	—	—
Total all manufactured equipment, machinery and products	17	6	0	—	2	7	2	—	—
7110 machinery (not elec)	13	3	0	—	—	7	2	—	—
7400 manufac. wood prod.	3	3	—	—	—	—	—	—	—
7600 rubber & plastic pr.	2	—	—	—	2	—	—	—	—
Ton-miles (x1000)	217,544	72,108	1,863	31,522	23,455	57,547	18,581	11,511	959
Tons All Traffic (x1000)				17,500					
Ton-miles All Traffic (x1000)				217,544					

ILLINOIS WATERWAY, IL (CONSOLIDATED REPORT FOR ENTIRE WATERWAY)

Section Included: Illinois River, Grafton, IL to confluence of Desplaines and Kankakee Rivers then Des plaines River to Lockport, IL.; Chicago Sanitary and Ship Canal, Lockport, IL to Damen Ave, in Chicago; Chicago River (South Branch), Damen Avenue to Lake Street; Calumet-Sag Channel, from its junction with the Chicago Sanitary and Ship Canal to Blue Island; and the Little Calumet River and Calumet River to Turning Basin No. 5 (130th Street Bridge). See reports for Illinois River, Chicago Sanitary and Ship Canal, Calumet-Sag Channel, and Chicago River, South Branch. Project Depth: 9 feet at low water stages.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1990	43,318	1993	45,636	1996	46,236	1999	43,724
1991	43,131	1994	50,882	1997	42,994		
1992	42,668	1995	47,435	1998	41,795*		

* Revised after original year of publication

Freight Traffic, 1999 (thousand short tons)

Commodity	Grand Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	43,724	10,021	280	1,116	22,686	4,713	1,061	2,869	977
Total coal	2,768	1,271	3	7	52	1,403	31	1	—
1100 coal lignite	2,298	1,213	2	—	10	1,059	15	—	—
1200 coal coke	469	58	1	7	42	345	15	1	—

ILLINOIS WATERWAY, IL (CONSOLIDATED REPORT FOR ENTIRE WATERWAY)
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Grand Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total petroleum and petroleum products	5,690	1,754	55	359	2,476	139	169	373	366
Subtotal petroleum products	5,690	1,754	55	359	2,476	139	169	373	366
2211 gasoline	257	257	—	—	—	—	—	—	—
2221 kerosene	1	1	—	—	—	—	—	—	—
2330 distillate fuel oil	791	263	19	5	346	—	3	41	114
2340 residual fuel oil	881	166	3	16	455	4	—	142	95
2350 lube oil & greases	307	268	1	2	4	—	30	—	1
2429 naphtha & solvents	115	105	—	—	7	—	—	3	—
2430 asphalt, tar & pitch	1,145	436	15	51	385	5	36	147	70
2540 petroleum coke	2,174	248	16	285	1,275	130	100	40	80
2990 petro. products nec	20	11	—	—	3	—	—	—	5
Total chemicals and related products	4,634	3,339	142	8	560	150	89	303	42
Subtotal fertilizers	1,108	853	—	8	134	50	7	36	20
3110 nitrogenous fert.	562	483	—	8	13	43	3	13	—
3120 phosphatic fert.	54	48	—	—	—	3	3	—	—
3130 potassic fert.	218	58	—	0	118	—	2	21	20
3190 fert. & mixes nec	273	265	—	—	3	3	—	3	—
Subtotal other chemicals and related products	3,526	2,486	142	—	426	101	82	267	22
3211 acyclic hydrocarbons	0	0	—	—	—	—	—	—	—
3212 benzene & toluene	115	7	11	—	63	—	34	—	—
3219 other hydrocarbons	952	878	—	—	8	23	—	20	22
3220 alcohols	1,236	549	52	—	336	25	30	244	—
3230 carboxylic acids	27	27	—	—	—	—	—	—	—
3240 nitrogen func. comp.	1	1	—	—	—	—	—	—	—
3260 organic comp. nec	67	54	—	—	—	—	13	—	—
3273 ammonia	259	259	—	—	—	—	—	—	—
3274 sodium hydroxide	547	529	—	—	1	17	—	—	—
3275 inorg. elem., oxides, & halogen salts	82	82	—	—	—	—	—	—	—
3276 metallic salts	155	35	79	—	16	18	5	3	—
3279 inorganic chem. nec	82	63	—	—	2	18	—	—	—
3297 chemical additives	1	1	—	—	—	—	—	—	—
Total crude materials, inedible except fuels	6,112	1,399	23	742	237	714	243	2,188	568
Subtotal forest products, wood and chips	245	228	—	—	—	17	—	—	—
4161 wood chips	229	222	—	—	—	7	—	—	—
4190 forest products nec	15	6	—	—	—	9	—	—	—
Subtotal soil, sand, gravel, rock and stone	3,703	209	—	737	17	100	3	2,154	485
4322 limestone	136	103	—	—	—	31	—	2	—
4323 gypsum	9	—	—	—	—	9	—	—	—
4331 sand & gravel	3,489	84	—	737	17	12	3	2,152	485
4335 waterway improv. mat	69	22	—	—	—	47	—	—	—
Subtotal iron ore and scrap	802	232	21	—	203	165	98	—	83
4410 iron ore	131	16	—	—	—	80	34	—	—

ILLINOIS WATERWAY, IL (CONSOLIDATED REPORT FOR ENTIRE WATERWAY)
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Grand Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
4420 iron & steel scrap	671	216	21	—	203	84	64	—	83
Subtotal non-ferrous ores and scrap	81	19	—	—	2	61	—	—	—
4650 aluminum ore	4	1	—	—	—	2	—	—	—
4670 manganese ore	58	10	—	—	—	48	—	—	—
4690 non-ferrous ores nec	20	8	—	—	2	10	—	—	—
Subtotal sulphur, clay and salt	40	24	—	—	—	15	1	—	—
4782 clay & refrac. mat.	40	24	—	—	—	15	1	—	—
Subtotal slag	255	10	—	6	16	83	140	—	—
4860 slag	255	10	—	6	16	83	140	—	—
Subtotal other non-metal. min.	986	676	2	—	—	274	—	34	—
4900 non-metal. min. nec	986	676	2	—	—	274	—	34	—
Total primary manufactured goods	4,789	2,116	58	—	61	2,260	293	—	2
Subtotal lime, cement and glass	1,549	1,283	—	—	3	249	13	—	2
5210 lime	6	6	—	—	—	—	—	—	—
5220 cement & concrete	1,540	1,277	—	—	—	249	13	—	2
5240 glass & glass prod.	3	—	—	—	3	—	—	—	—
Subtotal primary iron and steel products	3,003	759	58	—	53	1,859	273	—	—
5312 pig iron	842	294	—	—	—	544	4	—	—
5315 ferro alloys	213	5	—	—	1	207	—	—	—
5320 i&s primary forms	277	12	—	—	—	263	1	—	—
5330 i&s plates & sheets	958	244	58	—	4	495	157	—	—
5360 i&s bars & shapes	264	155	—	—	41	68	—	—	—
5370 i&s pipe & tube	14	11	—	—	0	3	—	—	—
5390 primary i&s nec	434	39	—	—	6	279	110	—	—
Subtotal primary non-ferrous metal products	225	61	—	—	5	152	7	—	—
5421 copper	1	—	—	—	—	1	—	—	—
5422 aluminum	16	9	—	—	—	6	—	—	—
5429 smelted prod. nec	91	17	—	—	2	72	—	—	—
5480 fab. metal products	118	35	—	—	3	73	7	—	—
Subtotal primary wood products	12	12	—	—	—	—	—	—	—
5540 primary wood prod.	12	12	—	—	—	—	—	—	—
Total food and farm products	19,705	134	—	—	19,294	40	233	4	—
Subtotal grain	13,579	17	—	—	13,409	—	150	3	—
6241 wheat	294	3	—	—	290	—	1	—	—
6344 corn	13,266	5	—	—	13,110	—	148	3	—
6442 rice	9	9	—	—	—	—	—	—	—
6447 sorghum grains	9	—	—	—	9	—	—	—	—
Subtotal oilseeds	4,625	21	—	—	4,525	—	78	1	—
6522 soybeans	4,591	3	—	—	4,508	—	78	1	—
6590 oilseeds nec	34	17	—	—	17	—	—	—	—
Subtotal vegetable products	108	—	—	—	108	—	—	—	—
6653 vegetable oils	108	—	—	—	108	—	—	—	—
Subtotal processed grain and animal feed	1,236	17	—	—	1,214	—	5	—	—
6747 grain mill products	15	—	—	—	15	—	—	—	—

ILLINOIS WATERWAY, IL (CONSOLIDATED REPORT FOR ENTIRE WATERWAY)
 Freight Traffic, 1999 - continued
 (thousand short tons)

Commodity	Grand Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
6782 animal feed, prep.	1,221	17	—	—	1,199	—	5	—	—
Subtotal other agricultural products	157	79	—	—	38	40	—	—	—
6861 sugar	64	27	—	—	—	37	—	—	—
6865 molasses	51	48	—	—	—	3	—	—	—
6885 alcoholic beverages	42	4	—	—	38	—	—	—	—
Total all manufactured equipment, machinery and products	25	9	0	—	6	7	2	—	—
7110 machinery (not elec)	13	3	0	—	—	7	2	—	—
7400 manufac. wood prod.	3	3	—	—	—	—	—	—	—
7500 textile products	3	3	—	—	—	—	—	—	—
7600 rubber & plastic pr.	6	—	—	—	6	—	—	—	—
Ton-miles (x1000)	8,815,278	2,322,810	12,873	39,147	4,333,775	1,517,747	344,828	147,132	96,966
Tons All Traffic (x1000)				43,724					
Ton-miles All Traffic (x1000)				8,815,278					

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	
WAUKEGAN HARBOR, IL													
			Inbound						Outbound				
Grand Total	593	33	---	419	141	---	542	34	---	268	240	---	
FOREIGN													
Total	---	---	---	---	---	---	1	---	---	---	1	---	
18	---	---	---	---	---	---	1	---	---	---	1	---	
DOMESTIC													
Total	593	33	---	419	141	---	541	34	---	268	239	---	
24	1	---	---	---	1	---	---	---	---	---	---	---	
22	1	1	---	---	---	---	---	---	---	---	---	---	
21	1	1	---	---	---	---	---	---	---	---	---	---	
20	---	---	---	---	---	---	1	1	---	---	---	---	
19	24	---	---	24	---	---	27	2	---	25	---	---	
18	15	15	---	---	---	---	1	1	---	---	---	---	
17	15	11	---	---	4	---	10	10	---	---	---	---	
16	22	5	---	---	17	---	12	9	---	---	3	---	
15	3	---	---	---	3	---	32	9	---	---	23	---	
14	---	---	---	---	---	---	1	1	---	---	---	---	
12	511	---	---	395	116	---	457	1	---	243	213	---	
										Total trips:		1,135	
CHICAGO RIVER (MAIN AND NORTH BRANCH), IL													
			Upbound						Downbound				
Grand Total	1,158	174	---	420	536	28	2,574	1,607	---	419	541	7	
DOMESTIC													
Total	1,158	174	---	420	536	28	2,574	1,607	---	419	541	7	
12	1,158	174	---	420	536	28	2,574	1,607	---	419	541	7	
										Total trips:		3,732	
CHICAGO RIVER, SOUTH BRANCH, IL													
			Upbound						Downbound				
Grand Total	2,937	1,434	---	479	1,016	8	1,515	1	---	456	1,029	29	
DOMESTIC													
Total	2,937	1,434	---	479	1,016	8	1,515	1	---	456	1,029	29	
12	2,937	1,434	---	479	1,016	8	1,515	1	---	456	1,029	29	
										Total trips:		4,452	
LAKE CALUMET, IL													
			Upbound						Downbound				
Grand Total	1,522	19	20	309	1,067	107	1,447	19	20	293	1,001	114	
FOREIGN													
Total	20	8	3	---	9	---	15	7	3	---	5	---	
26	2	2	---	---	---	---	1	---	---	---	1	---	
25	1	---	1	---	---	---	1	---	---	---	1	---	
23	3	1	---	---	2	---	---	---	---	---	---	---	
22	3	3	---	---	---	---	2	2	---	---	---	---	
20	3	1	1	---	1	---	3	2	1	---	---	---	
19	2	---	1	---	1	---	4	3	1	---	---	---	
18	6	1	---	---	5	---	1	---	1	---	---	---	
15	---	---	---	---	---	---	3	---	---	---	3	---	
DOMESTIC													
Total	1,502	11	17	309	1,058	107	1,432	12	17	293	996	114	
21	6	6	---	---	---	---	---	---	---	---	---	---	
20	9	4	---	---	5	---	2	2	---	---	---	---	
19	---	---	---	---	---	---	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
LAKE CALUMET, IL - continued												
	Upbound						Downbound					
DOMESTIC												
18	1	1	—	—	—	—	1	1	—	—	—	—
17	—	—	—	—	—	—	1	1	—	—	—	—
16	—	—	—	—	—	—	6	6	—	—	—	—
13	20	—	11	4	5	—	12	—	—	3	9	—
12	1,466	—	6	305	1,048	107	1,408	—	17	290	987	114
										Total trips:		2,969

CALUMET HARBOR AND RIVER, IL AND IN												
Grand Total	Upbound						Downbound					
	5,789	472	52	1,816	2,954	495	7,120	1,936	52	1,784	2,896	452
FOREIGN												
Total	317	296	4	—	13	4	332	299	4	—	16	13
32	1	1	—	—	—	—	—	—	—	—	—	—
27	—	—	—	—	—	—	2	2	—	—	—	—
26	27	26	—	—	1	—	157	156	—	—	1	—
25	5	4	—	—	1	—	19	18	1	—	—	—
24	1	1	—	—	—	—	18	18	—	—	—	—
23	8	8	—	—	—	—	36	33	—	—	3	—
22	145	145	—	—	—	—	28	28	—	—	—	—
21	29	28	—	—	1	—	24	20	1	—	3	—
20	35	33	1	—	1	—	12	8	1	—	1	2
19	35	32	2	—	—	1	9	6	1	—	1	1
18	9	6	1	—	2	—	20	7	—	—	5	8
17	7	6	—	—	—	1	1	—	—	—	1	—
16	3	1	—	—	2	—	1	—	—	—	1	—
15	8	2	—	—	5	1	2	1	—	—	—	1
12	4	3	—	—	—	1	3	2	—	—	—	1

DOMESTIC												
Total	5,472	176	48	1,816	2,941	491	6,788	1,637	48	1,784	2,880	439
27	6	6	—	—	—	—	19	18	—	—	1	—
26	6	6	—	—	—	—	11	9	—	—	2	—
25	12	12	—	—	—	—	18	13	—	—	5	—
24	23	23	—	—	—	—	20	11	—	—	9	—
23	42	42	—	—	—	—	24	8	—	—	16	—
22	27	27	—	—	—	—	5	4	—	—	1	—
21	12	12	—	—	—	—	6	6	—	—	—	—
20	31	10	—	17	4	—	31	8	—	19	4	—
19	31	10	—	16	5	—	19	—	—	18	1	—
18	34	19	—	3	12	—	104	95	—	2	6	1
17	11	2	—	7	2	—	16	9	—	7	—	—
16	20	6	—	—	9	5	19	19	—	—	—	—
15	6	1	—	—	3	2	7	6	—	—	1	—
14	3	—	—	—	—	1	2	—	—	2	—	—
13	28	—	—	19	8	1	51	—	32	15	4	—
12	5,180	—	48	1,752	2,898	482	6,436	1,431	16	1,721	2,830	438
										Total trips:		12,909

PORT OF CHICAGO, IL												
Grand Total	Inbound						Outbound					
	39,170	25,168	52	4,090	7,395	2,465	39,182	25,180	52	4,058	7,446	2,446
FOREIGN												
Total	332	299	4	—	16	13	318	297	4	—	13	4
32	—	—	—	—	—	—	1	1	—	—	—	—
28	—	—	—	—	—	—	1	1	—	—	—	—
27	2	2	—	—	—	—	—	—	—	—	—	—
26	157	156	—	—	1	—	27	26	—	—	1	—
25	19	18	1	—	—	—	5	4	—	—	1	—
24	18	18	—	—	—	—	1	1	—	—	—	—
23	36	33	—	—	3	—	8	8	—	—	—	—
22	28	28	—	—	—	—	145	145	—	—	—	—
21	24	20	1	—	3	—	29	28	—	—	1	—
20	12	8	1	—	1	2	35	33	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 OF CHICAGO, IL - continued

	Inbound						Outbound					
FOREIGN												
19	9	6	1	—	1	1	35	32	2	—	—	1
18	20	7	—	—	5	8	9	6	1	—	2	—
17	1	—	—	—	1	—	7	6	—	—	—	1
16	1	—	—	—	1	—	3	1	—	—	2	—
15	2	1	—	—	—	1	8	2	—	—	5	1
12	3	2	—	—	—	1	4	3	—	—	—	1
DOMESTIC												
Total	38,838	24,869	48	4,090	7,379	2,452	38,864	24,883	48	4,058	7,433	2,442
27	19	18	—	—	1	—	6	6	—	—	—	—
26	11	9	—	—	2	—	6	6	—	—	—	—
25	18	13	—	—	5	—	12	12	—	—	—	—
24	20	11	—	—	9	—	23	23	—	—	—	—
23	24	8	—	—	16	—	42	42	—	—	—	—
22	5	4	—	—	1	—	27	27	—	—	—	—
21	6	6	—	—	—	—	12	12	—	—	—	—
20	30	8	—	18	4	—	33	10	—	18	5	—
19	19	—	—	18	1	—	31	10	—	16	5	—
18	84	78	—	2	3	1	54	36	—	3	15	—
17	16	9	—	7	—	—	11	2	—	7	2	—
16	19	19	—	—	—	—	20	6	—	—	9	5
15	7	6	—	—	1	—	6	1	—	—	3	2
14	2	—	—	2	—	—	3	—	—	2	—	1
13	55	—	32	18	5	—	31	—	—	21	9	1
12	38,503	24,680	16	4,025	7,331	2,451	38,547	24,690	48	3,991	7,385	2,433
										Total trips:		78,352

INDIANA HARBOR, IN

	Inbound						Outbound					
Grand Total	1,841	335	364	573	199	370	1,894	335	364	589	194	412
DOMESTIC												
Total	1,841	335	364	573	199	370	1,894	335	364	589	194	412
30	30	30	—	—	—	—	—	—	—	—	—	—
29	27	27	—	—	—	—	—	—	—	—	—	—
28	54	51	—	—	3	—	—	—	—	—	—	—
27	186	166	—	—	20	—	4	2	—	—	2	—
26	59	48	—	—	11	—	7	4	—	—	3	—
25	13	6	—	—	7	—	3	1	—	—	2	—
24	36	—	—	35	1	—	34	2	—	32	—	—
23	7	1	—	—	6	—	25	25	—	—	—	—
22	—	—	—	—	—	—	8	8	—	—	—	—
21	5	5	—	—	—	—	178	176	—	—	—	2
20	4	—	—	4	—	—	84	21	—	4	—	59
19	—	—	—	—	—	—	18	14	1	—	—	3
18	42	—	—	42	—	—	119	62	—	41	4	12
17	1	1	—	—	—	—	20	15	—	—	—	5
16	113	—	—	55	—	58	92	—	—	49	10	33
15	9	—	—	7	—	2	48	5	—	7	—	36
14	40	—	—	40	—	—	61	—	—	41	—	20
13	72	—	50	22	—	—	198	—	175	22	—	1
12	1,143	—	314	368	151	310	995	—	188	393	173	241
										Total trips:		3,735

BURNS WATERWAY HARBOR, IN

	Inbound						Outbound					
Grand Total	1,129	129	107	408	410	75	1,244	119	107	414	533	71
DOMESTIC												
Total	1,129	129	107	408	410	75	1,244	119	107	414	533	71
29	1	1	—	—	—	—	—	—	—	—	—	—
27	79	79	—	—	—	—	—	—	—	—	—	—
26	28	27	—	—	1	—	—	—	—	—	—	—
25	7	7	—	—	—	—	—	—	—	—	—	—
24	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

BURNS WATERWAY HARBOR, IN - continued
Inbound

Outbound

DOMESTIC

23	2	2	—	—	—	—	—	—	—	—	—	—
22	7	7	—	—	—	—	59	59	—	—	—	—
21	3	3	—	—	—	—	6	6	—	—	—	—
20	7	—	—	7	—	—	10	1	—	7	2	—
19	—	—	—	—	—	—	25	20	—	—	5	—
18	6	—	—	—	6	—	19	18	—	—	1	—
17	—	—	—	—	—	—	8	8	—	—	—	—
16	—	—	—	—	—	—	7	7	—	—	—	—
13	74	—	69	5	—	—	4	—	—	4	—	—
12	912	—	38	396	403	75	1,106	—	107	403	525	71
											Total trips:	2,373

CHICAGO HARBOR, IL
(28 feet and less)

Upbound

Downbound

Grand Total	24,800	24,679	—	117	4	—	24,882	24,692	—	144	45	1
											Total trips:	49,682

MICHIGAN CITY HARBOR, IN
No Vessel Trips Reported

BUFFINGTON HARBOR, IN
(27 feet and less)

Inbound

Outbound

Grand Total	106	75	28	3	—	—	106	75	28	3	—	—
											Total trips:	212

GARY HARBOR, IN
(28 feet and less)

Inbound

Outbound

Grand Total	869	135	—	378	356	—	860	132	—	353	375	—
											Total trips:	1,729

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	
TWO HARBORS (AGATE BAY), MN													
Grand Total	274	212	---	31	31	---	283	218	---	32	33	---	
				Inbound						Outbound			
FOREIGN													
Total	16	16	---	---	---	---	4	4	---	---	---	---	
27	1	1	---	---	---	---	1	1	---	---	---	---	
25	1	1	---	---	---	---	---	---	---	---	---	---	
24	9	9	---	---	---	---	3	3	---	---	---	---	
23	2	2	---	---	---	---	---	---	---	---	---	---	
21	1	1	---	---	---	---	---	---	---	---	---	---	
20	2	2	---	---	---	---	---	---	---	---	---	---	
DOMESTIC													
Total	258	196	---	31	31	---	279	214	---	32	33	---	
28	---	---	---	---	---	---	32	27	---	---	5	---	
27	21	---	---	21	---	---	192	152	---	21	19	---	
26	59	58	---	1	---	---	41	31	---	2	8	---	
25	19	10	---	9	---	---	11	1	---	9	1	---	
24	49	18	---	---	31	---	2	2	---	---	---	---	
23	12	12	---	---	---	---	1	1	---	---	---	---	
22	23	23	---	---	---	---	---	---	---	---	---	---	
21	18	18	---	---	---	---	---	---	---	---	---	---	
20	27	27	---	---	---	---	---	---	---	---	---	---	
19	8	8	---	---	---	---	---	---	---	---	---	---	
18	18	18	---	---	---	---	---	---	---	---	---	---	
17	1	1	---	---	---	---	---	---	---	---	---	---	
15	2	2	---	---	---	---	---	---	---	---	---	---	
14	1	1	---	---	---	---	---	---	---	---	---	---	
										Total trips:		557	

DULUTH-SUPERIOR HARBOR, MN AND WI

Grand Total	Inbound				Outbound							
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Total	Pass & Dry Cargo	Tanker	Tow or Tug				
1,147	1,117	3	11	15	1	1,165	1,141	3	9	11	1	
FOREIGN												
473	467	2	---	3	1	508	502	2	---	3	1	
27	4	4	---	---	---	84	84	---	---	---	---	
26	4	4	---	---	---	290	289	---	---	1	---	
25	21	21	---	---	---	28	28	---	---	---	---	
24	58	57	---	---	1	18	17	---	---	1	---	
23	93	92	---	---	1	38	38	---	---	---	---	
22	46	46	---	---	---	15	15	---	---	---	---	
21	45	44	---	---	---	7	7	---	---	---	---	
20	174	172	2	---	---	5	5	---	---	---	---	
19	9	9	---	---	---	5	5	---	---	---	---	
18	15	15	---	---	---	2	2	---	---	---	---	
17	2	2	---	---	---	1	1	---	---	---	---	
16	---	---	---	---	---	1	1	---	---	---	---	
15	---	---	---	---	---	8	7	1	---	---	---	
14	2	1	---	---	1	2	1	---	---	1	---	
12	---	---	---	---	---	4	2	1	---	---	1	
DOMESTIC												
674	650	1	11	12	---	657	639	1	9	8	---	
28	6	6	---	---	---	64	64	---	---	---	---	
27	14	12	---	2	---	335	335	---	---	---	---	
26	63	63	---	---	---	73	73	---	---	---	---	
25	31	20	---	6	5	7	3	---	4	---	---	
24	28	21	---	3	4	30	22	---	5	3	---	
23	148	148	---	---	---	18	17	---	---	1	---	
22	105	104	1	---	---	22	18	---	---	4	---	
21	40	40	---	---	---	22	22	---	---	---	---	
20	25	25	---	---	---	21	21	---	---	---	---	
19	57	57	---	---	---	23	23	---	---	---	---	
18	118	118	---	---	---	26	26	---	---	---	---	
17	30	30	---	---	---	7	7	---	---	---	---	
16	1	1	---	---	---	2	2	---	---	---	---	
15	4	4	---	---	---	6	6	---	---	---	---	
12	4	1	---	---	3	1	---	1	---	---	---	
										Total trips:		2,312

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
TACONITE HARBOR, MN												
	Inbound						Outbound					
Grand Total	220	184	---	18	18	---	231	189	---	21	21	---
FOREIGN												
Total	7	7	---	---	---	---	---	---	---	---	---	---
24	6	6	---	---	---	---	---	---	---	---	---	---
21	1	1	---	---	---	---	---	---	---	---	---	---
DOMESTIC												
Total	213	177	---	18	18	---	231	189	---	21	21	---
30	---	---	---	---	---	---	3	3	---	---	---	---
29	---	---	---	---	---	---	1	1	---	---	---	---
28	4	4	---	---	---	---	26	26	---	---	---	---
27	5	5	---	---	---	---	119	104	---	---	15	---
26	5	5	---	---	---	---	47	42	---	---	5	---
25	1	1	---	---	---	---	1	1	---	---	---	---
24	26	8	---	18	---	---	21	---	---	21	---	---
23	54	53	---	---	1	---	---	---	---	---	---	---
22	21	17	---	---	4	---	---	---	---	---	---	---
21	5	5	---	---	---	---	1	1	---	---	---	---
20	---	---	---	---	---	---	1	1	---	---	---	---
19	3	3	---	---	---	---	4	4	---	---	---	---
18	41	41	---	---	---	---	4	4	---	---	---	---
17	29	29	---	---	---	---	1	1	---	---	---	---
15	6	6	---	---	---	---	1	1	---	---	---	---
9	13	---	---	---	13	---	1	---	---	---	---	---
											Total trips:	451

PRESQUE ISLE HARBOR, MI												
	Inbound						Outbound					
Grand Total	267	253	---	7	7	---	304	288	---	8	8	---
FOREIGN												
Total	53	53	---	---	---	---	85	85	---	---	---	---
26	---	---	---	---	---	---	1	1	---	---	---	---
24	2	2	---	---	---	---	7	7	---	---	---	---
23	4	4	---	---	---	---	70	70	---	---	---	---
22	16	16	---	---	---	---	4	4	---	---	---	---
21	26	26	---	---	---	---	---	---	---	---	---	---
19	5	5	---	---	---	---	2	2	---	---	---	---
18	---	---	---	---	---	---	1	1	---	---	---	---
DOMESTIC												
Total	214	200	---	7	7	---	219	203	---	8	8	---
29	---	---	---	---	---	---	1	1	---	---	---	---
28	---	---	---	---	---	---	19	19	---	---	---	---
27	15	15	---	---	---	---	94	87	---	---	7	---
26	1	1	---	---	---	---	49	48	---	---	1	---
25	12	12	---	---	---	---	1	1	---	---	---	---
24	16	9	---	7	---	---	9	1	---	8	---	---
23	27	27	---	---	---	---	17	17	---	---	---	---
22	4	4	---	---	---	---	---	---	---	---	---	---
21	3	3	---	---	---	---	1	1	---	---	---	---
20	2	2	---	---	---	---	2	2	---	---	---	---
19	3	3	---	---	---	---	---	---	---	---	---	---
18	101	101	---	---	---	---	26	26	---	---	---	---
17	23	23	---	---	---	---	---	---	---	---	---	---
12	7	---	---	---	7	---	---	---	---	---	---	---
											Total trips:	571

MARQUETTE HARBOR, MI												
	Inbound						Outbound					
Grand Total	68	68	---	---	---	---	33	33	---	---	---	---
FOREIGN												
Total	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
MARQUETTE HARBOR, MI - continued												
	Inbound						Outbound					
FOREIGN												
23	7	7	—	—	—	—	—	—	—	—	—	—
22	18	18	—	—	—	—	—	—	—	—	—	—
21	6	6	—	—	—	—	—	—	—	—	—	—
19	6	6	—	—	—	—	—	—	—	—	—	—
DOMESTIC												
Total	31	31	—	—	—	—	33	33	—	—	—	—
27	—	—	—	—	—	—	1	1	—	—	—	—
23	2	2	—	—	—	—	—	—	—	—	—	—
22	20	20	—	—	—	—	—	—	—	—	—	—
21	6	6	—	—	—	—	—	—	—	—	—	—
20	2	2	—	—	—	—	1	1	—	—	—	—
19	1	1	—	—	—	—	7	7	—	—	—	—
18	—	—	—	—	—	—	13	13	—	—	—	—
17	—	—	—	—	—	—	11	11	—	—	—	—
											Total trips:	101
DRUMMOND ISLAND, MI												
	Inbound						Outbound					
Grand Total	17,830	17,791	—	19	20	—	17,747	17,703	—	22	22	—
FOREIGN												
Total	7	7	—	—	—	—	7	7	—	—	—	—
23	—	—	—	—	—	—	5	5	—	—	—	—
22	1	1	—	—	—	—	2	2	—	—	—	—
21	2	2	—	—	—	—	—	—	—	—	—	—
19	2	2	—	—	—	—	—	—	—	—	—	—
18	2	2	—	—	—	—	—	—	—	—	—	—
DOMESTIC												
Total	17,823	17,784	—	19	20	—	17,740	17,696	—	22	22	—
26	—	—	—	—	—	—	2	2	—	—	—	—
25	—	—	—	—	—	—	1	1	—	—	—	—
24	1	—	—	1	—	—	5	1	—	1	3	—
23	3	3	—	—	—	—	37	20	—	—	17	—
22	2	2	—	—	—	—	24	23	—	—	1	—
21	2	2	—	—	—	—	8	7	—	—	1	—
20	9	3	—	6	—	—	8	1	—	7	—	—
19	5	5	—	—	—	—	1	1	—	—	—	—
18	18	11	—	—	7	—	1	1	—	—	—	—
17	10	10	—	—	—	—	1	1	—	—	—	—
16	21	9	—	—	12	—	1	1	—	—	—	—
15	9	9	—	—	—	—	—	—	—	—	—	—
13	12	—	—	12	—	—	14	—	—	14	—	—
12	17,731	17,730	—	—	1	—	17,638	17,638	—	—	—	—
											Total trips:	35,577
ST. MARYS RIVER, MI												
	Upbound						Downbound					
Grand Total	52,188	51,846	4	122	194	22	51,790	51,556	3	60	148	23
FOREIGN												
Total	1,049	909	3	22	93	22	798	686	2	—	87	23
32	1	1	—	—	—	—	—	—	—	—	—	—
29	1	—	1	—	—	—	1	1	—	—	—	—
27	3	3	—	—	—	—	78	78	—	—	—	—
26	17	17	—	—	—	—	300	299	—	—	1	—
25	27	26	—	—	1	—	50	43	—	—	1	6
24	80	78	—	—	—	2	45	38	—	—	7	—
23	182	182	—	—	—	—	119	111	—	—	7	1
22	174	173	—	—	—	1	46	43	—	—	1	2
21	140	137	—	—	2	1	33	25	—	—	4	4
20	211	202	2	—	4	3	25	7	—	—	18	—
19	46	39	—	—	1	6	27	19	—	—	8	—

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
ST. MARYS RIVER, MI - continued												
	Upbound						Downbound					
FOREIGN												
18	28	23	—	—	5	—	11	4	—	—	7	—
17	6	5	—	—	1	—	1	—	—	—	1	—
16	6	3	—	—	3	—	10	1	—	—	9	—
15	17	1	—	2	13	1	26	2	1	—	23	—
14	19	3	—	4	5	7	2	2	—	—	—	—
13	8	—	—	2	5	1	1	1	—	—	—	—
12	83	16	—	14	53	—	23	12	1	—	7	3
DOMESTIC												
Total	51,139	50,937	1	100	101	—	50,992	50,870	1	60	61	—
30	—	—	—	—	—	—	9	9	—	—	—	—
29	—	—	—	—	—	—	4	4	—	—	—	—
28	7	7	—	—	—	—	149	144	—	—	5	—
27	35	12	—	23	—	—	767	705	—	21	41	—
26	128	127	—	1	—	—	299	283	—	2	14	—
25	66	49	—	12	5	—	18	8	—	9	1	—
24	103	45	—	25	33	—	41	13	—	28	—	—
23	254	236	—	—	18	—	7	7	—	—	—	—
22	170	168	1	—	1	—	2	2	—	—	—	—
21	76	75	—	—	1	—	3	3	—	—	—	—
20	54	41	—	13	—	—	5	5	—	—	—	—
19	72	72	—	—	—	—	9	9	—	—	—	—
18	284	277	—	—	7	—	4	4	—	—	—	—
17	127	127	—	—	—	—	1	1	—	—	—	—
16	23	11	—	—	12	—	1	1	—	—	—	—
15	17	17	—	—	—	—	1	1	—	—	—	—
14	1	1	—	—	—	—	—	—	—	—	—	—
13	26	—	—	26	—	—	—	—	—	—	—	—
12	49,696	49,672	—	—	24	—	49,672	49,671	1	—	—	—
										Total trips:	103,978	

ST. MARYS FALLS CANAL, MI AND SAULT STE. MARIE, ONTARIO SHIP CANAL, CN (INCLUDED IN ST. MARYS RIVER)

Grand Total	Upbound						Downbound					
	2,138	1,932	4	59	122	21	2,103	1,894	2	60	124	23
FOREIGN												
Total	755	668	3	—	63	21	687	600	1	—	63	23
29	1	—	1	—	—	—	1	1	—	—	—	—
27	3	3	—	—	—	—	78	78	—	—	—	—
26	16	16	—	—	—	—	292	291	—	—	1	—
25	13	13	—	—	—	—	44	37	—	—	1	6
24	70	68	—	—	—	2	38	31	—	—	—	7
23	107	107	—	—	—	—	111	106	—	—	4	1
22	109	108	—	—	—	1	31	29	—	—	—	2
21	97	95	—	—	1	1	11	6	—	—	1	4
20	195	190	2	—	1	2	20	4	—	—	16	—
19	37	31	—	—	—	6	11	5	—	—	6	—
18	26	22	—	—	4	—	2	1	—	—	1	—
17	5	5	—	—	—	—	1	—	—	—	1	—
16	2	2	—	—	—	—	8	—	—	—	8	—
15	12	1	—	—	10	1	21	—	—	—	21	—
14	12	2	—	—	3	7	1	1	—	—	—	—
13	5	—	—	—	4	1	1	1	—	—	—	—
12	45	5	—	—	40	—	16	9	1	—	3	3
DOMESTIC												
Total	1,383	1,264	1	59	59	—	1,416	1,294	1	60	61	—
30	—	—	—	—	—	—	9	9	—	—	—	—
29	—	—	—	—	—	—	4	4	—	—	—	—
28	7	7	—	—	—	—	149	144	—	—	5	—
27	35	12	—	23	—	—	767	705	—	21	41	—
26	126	125	—	1	—	—	299	283	—	2	14	—
25	65	48	—	12	5	—	18	8	—	9	1	—
24	98	44	—	23	31	—	41	13	—	28	—	—
23	218	218	—	—	—	—	7	7	—	—	—	—
22	155	154	1	—	—	—	2	2	—	—	—	—
21	66	66	—	—	—	—	3	3	—	—	—	—
20	37	37	—	—	—	—	5	5	—	—	—	—
19	66	66	—	—	—	—	9	9	—	—	—	—

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

ST. MARYS FALLS CANAL, MI AND SAULT STE. MARIE, ONTARIO SHIP CANAL, CN (INCLUDED IN ST. MARYS RIVER) - continued
Upbound Downbound

DOMESTIC

18	265	265	—	—	—	—	4	4	—	—	—	—
17	117	117	—	—	—	—	1	1	—	—	—	—
16	1	1	—	—	—	—	1	1	—	—	—	—
15	8	8	—	—	—	—	1	1	—	—	—	—
14	1	1	—	—	—	—	—	—	—	—	—	—
12	118	95	—	—	23	—	96	95	1	—	—	—
											Total trips:	4,241

GRAYS REEF PASSAGE, MI

Grand Total	Upbound				Downbound							
	1,449	865	5	287	159	133	1,030	489	5	282	133	121

FOREIGN

Total	10	2	2	—	6	—	9	—	1	4	4	—
20	3	—	—	—	3	—	—	—	—	—	—	—
19	2	1	1	—	—	—	1	—	1	—	—	—
18	1	—	—	—	1	—	—	—	—	—	—	—
17	1	—	—	—	1	—	—	—	—	—	—	—
16	1	—	—	—	1	—	—	—	—	—	—	—
15	1	—	1	—	—	—	—	—	—	—	—	—
12	1	1	—	—	—	—	8	—	—	4	4	—

DOMESTIC

Total	1,439	863	3	287	153	133	1,021	489	4	278	129	121
26	63	63	—	—	—	—	—	—	—	—	—	—
25	48	34	—	8	6	—	64	48	—	9	7	—
24	79	23	—	26	30	—	92	36	—	27	29	—
23	64	64	—	—	—	—	111	66	—	—	45	—
22	127	125	1	—	1	—	75	64	—	—	11	—
21	87	80	—	—	7	—	34	29	2	—	3	—
20	134	96	—	26	8	4	62	35	—	25	1	1
19	111	47	1	53	7	3	92	31	—	60	1	—
18	181	102	—	25	12	42	70	41	—	24	4	1
17	93	74	—	—	—	19	16	15	—	—	—	1
16	137	36	—	54	12	35	139	27	—	54	1	57
15	99	20	—	7	54	18	9	—	—	7	—	2
14	31	—	—	29	—	2	28	—	—	28	—	—
13	18	—	—	16	—	2	31	—	—	17	14	—
12	167	99	1	43	16	8	198	97	2	27	13	59
											Total trips:	2,479

CHARLEVOIX HARBOR, MI

Grand Total	Inbound				Outbound							
	641	538	1	50	52	—	656	538	2	59	57	—

FOREIGN

Total	9	—	1	4	4	—	10	2	2	—	6	—
20	—	—	—	—	—	—	3	—	—	—	3	—
19	1	—	1	—	—	—	2	1	1	—	—	—
18	—	—	—	—	—	—	1	—	—	—	1	—
17	—	—	—	—	—	—	1	—	—	—	1	—
16	—	—	—	—	—	—	1	—	—	—	1	—
15	—	—	—	—	—	—	1	—	1	—	—	—
11	2	—	—	—	2	—	—	—	—	—	—	—
10	2	—	—	—	2	—	1	1	—	—	—	—
9	4	—	—	4	—	—	—	—	—	—	—	—

DOMESTIC

Total	632	538	—	46	48	—	646	536	—	59	51	—
23	2	—	—	—	2	—	1	1	—	—	—	—
22	2	1	—	—	1	—	—	—	—	—	—	—
21	4	3	—	—	1	—	77	56	—	—	21	—
20	14	7	—	6	1	—	108	86	—	6	16	—
19	3	2	—	—	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

CHARLEVOIX HARBOR, MI - continued

	Inbound						Outbound					
DOMESTIC												
18	—	—	—	—	—	—	8	2	—	—	6	—
17	2	2	—	—	—	—	3	3	—	—	—	—
16	70	70	—	—	—	—	2	2	—	—	—	—
15	1	1	—	—	—	—	6	4	—	—	2	—
14	71	71	—	—	—	—	—	—	—	—	—	—
13	42	—	—	—	42	—	2	—	—	—	2	—
12	—	—	—	—	—	—	2	—	—	—	2	—
9	40	—	—	40	—	—	53	—	—	53	—	—
8	381	381	—	—	—	—	382	382	—	—	—	—
										Total trips:		1,297

MANISTEE HARBOR, MI

	Inbound						Outbound					
Grand Total	49	32	—	7	—	10	46	30	—	4	—	12
FOREIGN												
Total	6	—	—	—	—	6	7	—	—	—	—	7
21	—	—	—	—	—	—	1	—	—	—	—	1
20	—	—	—	—	—	—	5	—	—	—	—	5
13	2	—	—	—	—	2	1	—	—	—	—	1
12	4	—	—	—	—	4	—	—	—	—	—	—
DOMESTIC												
Total	43	32	—	7	—	4	39	30	—	4	—	5
27	2	2	—	—	—	—	—	—	—	—	—	—
26	11	11	—	—	—	—	—	—	—	—	—	—
24	1	1	—	—	—	—	—	—	—	—	—	—
23	1	1	—	—	—	—	—	—	—	—	—	—
22	9	9	—	—	—	—	—	—	—	—	—	—
20	2	2	—	—	—	—	—	—	—	—	—	—
19	3	3	—	—	—	—	—	—	—	—	—	—
18	2	2	—	—	—	—	6	6	—	—	—	—
17	—	—	—	—	—	—	14	14	—	—	—	—
16	1	1	—	—	—	—	7	7	—	—	—	—
15	—	—	—	—	—	—	3	3	—	—	—	—
12	11	—	—	7	—	4	9	—	—	4	—	5
										Total trips:		95

LUDINGTON HARBOR, MI

	Inbound						Outbound					
Grand Total	330	246	2	37	5	40	326	246	1	32	3	44
FOREIGN												
Total	17	9	—	—	4	4	16	9	—	—	2	5
25	2	2	—	—	—	—	—	—	—	—	—	—
24	2	2	—	—	—	—	—	—	—	—	—	—
23	2	2	—	—	—	—	2	2	—	—	—	—
22	2	2	—	—	—	—	1	1	—	—	—	—
21	—	—	—	—	—	—	1	1	—	—	—	—
20	—	—	—	—	—	—	3	3	—	—	—	—
19	—	—	—	—	—	—	2	2	—	—	—	—
18	4	1	—	—	3	—	—	—	—	—	—	—
17	—	—	—	—	—	—	5	—	—	—	—	5
13	—	—	—	—	—	—	1	—	—	—	1	—
12	5	—	—	—	1	4	1	—	—	—	1	—
DOMESTIC												
Total	313	237	2	37	1	36	310	237	1	32	1	39
27	2	2	—	—	—	—	—	—	—	—	—	—
26	5	5	—	—	—	—	—	—	—	—	—	—
25	1	—	—	—	1	—	—	—	—	—	—	—
22	1	1	—	—	—	—	1	—	1	—	—	—
21	—	—	—	—	—	—	4	4	—	—	—	—
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

LUDINGTON HARBOR, MI - continued

Inbound							Outbound					
DOMESTIC												
18	229	229	—	—	—	—	233	232	—	—	1	—
16	—	—	—	—	—	—	11	—	—	—	—	11
15	—	—	—	—	—	—	2	—	—	—	—	2
14	—	—	—	—	—	—	1	—	—	—	—	1
13	2	—	—	2	—	—	4	—	—	3	—	1
12	72	—	2	34	—	36	52	—	—	28	—	24
											Total trips:	656

MUSKEGON HARBOR, MI

Inbound							Outbound					
Grand Total	221	187	—	17	14	3	210	185	—	13	11	1
FOREIGN												
Total	25	23	—	—	1	1	24	23	—	—	1	—
26	1	1	—	—	—	—	—	—	—	—	—	—
25	8	8	—	—	—	—	—	—	—	—	—	—
24	3	3	—	—	—	—	—	—	—	—	—	—
23	5	5	—	—	—	—	1	1	—	—	—	—
22	—	—	—	—	—	—	2	2	—	—	—	—
21	3	3	—	—	—	—	8	8	—	—	—	—
20	3	3	—	—	—	—	4	3	—	—	1	—
19	—	—	—	—	—	—	7	7	—	—	—	—
18	—	—	—	—	—	—	2	2	—	—	—	—
12	2	—	—	—	1	1	—	—	—	—	—	—

DOMESTIC

Total	196	164	—	17	13	2	186	162	—	13	10	1
28	8	8	—	—	—	—	—	—	—	—	—	—
27	5	5	—	—	—	—	—	—	—	—	—	—
26	11	11	—	—	—	—	—	—	—	—	—	—
25	3	3	—	—	—	—	—	—	—	—	—	—
24	9	9	—	—	—	—	—	—	—	—	—	—
23	13	13	—	—	—	—	8	8	—	—	—	—
22	23	23	—	—	—	—	2	2	—	—	—	—
21	6	6	—	—	—	—	3	3	—	—	—	—
20	4	4	—	—	—	—	6	6	—	—	—	—
19	15	1	—	14	—	—	14	3	—	11	—	—
18	5	—	—	2	3	—	23	22	—	1	—	—
17	2	—	—	—	2	—	12	12	—	—	—	—
16	6	—	—	—	6	—	20	19	—	—	1	—
15	2	—	—	—	2	—	14	5	—	—	9	—
12	84	81	—	1	—	2	84	82	—	1	—	1
											Total trips:	431

GRAND HAVEN HARBOR AND GRAND RIVER, MI

Upbound							Downbound					
Grand Total	116	99	—	9	8	—	118	101	—	9	8	—
FOREIGN												
Total	30	29	—	—	1	—	31	30	—	—	1	—
25	—	—	—	—	—	—	1	1	—	—	—	—
22	2	2	—	—	—	—	2	2	—	—	—	—
21	16	15	—	—	1	—	16	15	—	—	1	—
20	5	5	—	—	—	—	7	7	—	—	—	—
19	6	6	—	—	—	—	4	4	—	—	—	—
18	1	1	—	—	—	—	1	1	—	—	—	—
DOMESTIC												
Total	86	70	—	9	7	—	87	71	—	9	7	—
25	3	3	—	—	—	—	1	1	—	—	—	—
23	2	2	—	—	—	—	—	—	—	—	—	—
22	20	20	—	—	—	—	1	1	—	—	—	—
21	28	26	—	—	2	—	19	19	—	—	—	—
20	11	7	—	2	2	—	4	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

GRAND HAVEN HARBOR AND GRAND RIVER, MI - continued
Upbound

Downbound

DOMESTIC

19	4	3	—	—	1	—	3	3	—	—	—	—
18	3	3	—	—	—	—	22	20	—	—	2	—
17	5	5	—	—	—	—	16	16	—	—	—	—
16	1	1	—	—	—	—	9	9	—	—	—	—
15	2	—	—	—	2	—	—	—	—	—	—	—
13	—	—	—	—	—	—	5	—	—	—	5	—
12	7	—	—	7	—	—	7	—	—	7	—	—
											Total trips:	234

HOLLAND HARBOR, MI

Inbound

Outbound

Grand Total	62	34	—	14	14	—	62	34	—	14	14	—
--------------------	-----------	-----------	----------	-----------	-----------	----------	-----------	-----------	----------	-----------	-----------	----------

DOMESTIC

Total	62	34	—	14	14	—	62	34	—	14	14	—
26	17	17	—	—	—	—	—	—	—	—	—	—
24	2	2	—	—	—	—	—	—	—	—	—	—
23	2	2	—	—	—	—	—	—	—	—	—	—
22	10	10	—	—	—	—	—	—	—	—	—	—
21	1	1	—	—	—	—	—	—	—	—	—	—
19	1	1	—	—	—	—	—	—	—	—	—	—
17	1	1	—	—	—	—	18	18	—	—	—	—
16	—	—	—	—	—	—	10	10	—	—	—	—
15	—	—	—	—	—	—	6	6	—	—	—	—
9	—	—	—	—	—	—	6	—	—	—	6	—
8	14	—	—	14	—	—	22	—	—	14	8	—
6	14	—	—	—	14	—	—	—	—	—	—	—
											Total trips:	124

ST. JOSEPH HARBOR, MI

Upbound

Downbound

Grand Total	59	27	—	16	16	—	55	26	—	14	15	—
--------------------	-----------	-----------	----------	-----------	-----------	----------	-----------	-----------	----------	-----------	-----------	----------

DOMESTIC

Total	59	27	—	16	16	—	55	26	—	14	15	—
23	1	1	—	—	—	—	—	—	—	—	—	—
22	6	6	—	—	—	—	—	—	—	—	—	—
21	12	12	—	—	—	—	—	—	—	—	—	—
20	6	6	—	—	—	—	—	—	—	—	—	—
19	21	2	—	16	3	—	18	4	—	14	—	—
18	3	—	—	—	3	—	—	—	—	—	—	—
17	5	—	—	—	5	—	8	8	—	—	—	—
16	5	—	—	—	5	—	12	9	—	—	—	—
15	—	—	—	—	—	—	17	5	—	—	12	—
											Total trips:	114

CHEBOYGAN HARBOR, MI

Inbound

Outbound

Grand Total	634	510	3	61	—	60	635	513	2	61	—	59
--------------------	------------	------------	----------	-----------	----------	-----------	------------	------------	----------	-----------	----------	-----------

DOMESTIC

Total	634	510	3	61	—	60	635	513	2	61	—	59
22	3	—	3	—	—	—	—	—	—	—	—	—
20	4	—	—	—	—	4	1	—	—	—	—	1
19	2	—	—	—	—	2	—	—	—	—	—	—
18	32	—	—	—	—	32	—	—	—	—	—	—
17	17	—	—	—	—	17	1	—	—	—	—	1
16	59	—	—	54	—	5	111	—	—	54	—	57
15	7	—	—	7	—	—	7	—	—	7	—	—
12	—	—	—	—	—	—	2	—	2	—	—	—
6	510	510	—	—	—	—	513	513	—	—	—	—
											Total trips:	1,269

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	
MILWAUKEE HARBOR, WI													
Grand Total	3,372	1,089	---	1,138	1,119	26	3,614	1,095	---	1,370	1,123	26	
				Inbound						Outbound			
FOREIGN	Total	94	94	---	---	---	107	103	---	---	4	---	
	29	1	1	---	---	---	1	1	---	---	---	---	
	28	2	2	---	---	---	---	---	---	---	---	---	
	27	1	1	---	---	---	---	---	---	---	---	---	
	26	16	16	---	---	---	15	15	---	---	---	---	
	25	18	18	---	---	---	3	3	---	---	---	---	
	24	8	8	---	---	---	4	4	---	---	---	---	
	23	13	13	---	---	---	8	8	---	---	---	---	
	22	13	13	---	---	---	35	35	---	---	---	---	
	21	5	5	---	---	---	10	10	---	---	---	---	
	20	5	5	---	---	---	5	5	---	---	---	---	
	19	7	7	---	---	---	12	12	---	---	---	---	
	18	1	1	---	---	---	2	2	---	---	---	---	
	17	1	1	---	---	---	1	1	---	---	---	---	
	16	1	1	---	---	---	2	2	---	---	---	---	
	15	2	2	---	---	---	6	2	---	---	4	---	
	12	---	---	---	---	---	3	3	---	---	---	---	
DOMESTIC	Total	3,278	995	---	1,138	1,119	26	3,507	992	---	1,370	1,119	26
	26	1	1	---	---	---	---	---	---	---	---	---	---
	25	3	2	---	---	1	---	---	---	---	---	---	---
	24	36	17	---	---	19	---	---	---	---	---	---	---
	23	39	22	---	---	17	---	---	---	---	---	---	---
	22	12	12	---	---	---	1	---	---	---	1	---	
	21	13	11	---	---	2	---	---	---	---	---	---	
	20	88	77	---	4	7	5	1	---	4	---	---	
	19	44	3	---	39	1	41	2	---	38	1	---	
	18	19	8	---	10	1	58	39	---	10	9	---	
	17	3	3	---	---	---	19	10	---	---	9	---	
	16	14	4	---	---	1	48	34	---	---	14	---	
	15	12	---	---	---	1	10	1	---	---	9	---	
	14	16	---	---	12	---	82	70	---	12	---	---	
	13	1	---	---	1	---	7	---	---	1	6	---	
	12	2,977	835	---	1,072	1,069	1	3,236	835	---	1,305	1,070	26
											Total trips:		6,986
PORT WASHINGTON HARBOR, WI													
Grand Total	24	24	---	---	---	---	23	23	---	---	---	---	
				Inbound						Outbound			
DOMESTIC	Total	24	24	---	---	---	23	23	---	---	---	---	
	26	24	24	---	---	---	---	---	---	---	---	---	
	25	---	---	---	---	---	3	3	---	---	---	---	
	21	---	---	---	---	---	14	14	---	---	---	---	
	17	---	---	---	---	---	6	6	---	---	---	---	
											Total trips:	47	
MANITOWOC HARBOR, WI													
Grand Total	355	250	---	50	55	---	354	249	---	51	54	---	
				Inbound						Outbound			
DOMESTIC	Total	355	250	---	50	55	---	354	249	---	51	54	
	27	2	2	---	---	---	---	---	---	---	---	---	
	26	1	1	---	---	---	---	---	---	---	---	---	
	22	2	2	---	---	---	---	---	---	---	---	---	
	21	23	13	---	---	10	3	3	---	---	---	---	
	20	1	---	---	---	1	---	---	---	---	---	---	
	19	2	2	---	---	---	---	---	---	---	---	---	
	18	230	230	---	---	---	230	230	---	---	---	---	

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

MANITOWOC HARBOR, WI - continued

Inbound

Outbound

DOMESTIC

17	7	—	—	7	—	—	7	—	—	7	—	—
16	—	—	—	—	—	—	16	16	—	—	—	—
13	3	—	—	3	—	—	14	—	—	3	11	—
12	84	—	—	40	44	—	84	—	—	41	43	—
Total trips:											709	

GREEN BAY HARBOR, WI

Upbound

Downbound

Grand Total	572	121	2	224	209	16	568	119	2	223	208	16
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FOREIGN

Total	31	25	2	—	4	—	29	25	2	—	2	—
25	5	5	—	—	—	—	—	—	—	—	—	—
24	1	1	—	—	—	—	1	—	1	—	—	—
23	20	16	—	—	4	—	6	6	—	—	—	—
22	2	1	1	—	—	—	11	10	1	—	—	—
21	—	—	—	—	—	—	4	4	—	—	—	—
20	1	—	1	—	—	—	2	2	—	—	—	—
19	1	1	—	—	—	—	2	2	—	—	—	—
18	—	—	—	—	—	—	2	—	—	—	2	—
17	1	1	—	—	—	—	1	1	—	—	—	—

DOMESTIC

Total	541	96	—	224	205	16	539	94	—	223	206	16
24	14	14	—	—	—	—	—	—	—	—	—	—
23	35	32	—	—	3	—	—	—	—	—	—	—
22	18	8	—	—	10	—	—	—	—	—	—	—
21	4	2	—	—	2	—	13	13	—	—	—	—
20	14	13	—	1	—	—	27	26	—	1	—	—
19	27	20	—	7	—	—	14	7	—	7	—	—
18	6	3	—	2	—	1	15	10	—	3	2	—
17	4	3	—	—	—	1	13	13	—	—	—	—
16	4	—	—	—	—	4	22	15	—	—	7	—
15	4	1	—	—	—	3	15	10	—	—	5	—
14	10	—	—	6	—	4	6	—	—	6	—	—
13	11	—	—	10	—	1	10	—	—	10	—	—
12	390	—	—	198	190	2	404	—	—	196	192	16
Total trips:											1,140	

ALPENA HARBOR, MI

Inbound

Outbound

Grand Total	304	169	—	67	68	—	338	191	—	73	74	—
--------------------	-----	-----	---	----	----	---	-----	-----	---	----	----	---

FOREIGN

Total	20	20	—	—	—	—	19	19	—	—	—	—
25	—	—	—	—	—	—	2	2	—	—	—	—
24	—	—	—	—	—	—	1	1	—	—	—	—
23	1	1	—	—	—	—	1	1	—	—	—	—
22	3	3	—	—	—	—	2	2	—	—	—	—
21	3	3	—	—	—	—	5	5	—	—	—	—
20	2	2	—	—	—	—	1	1	—	—	—	—
18	4	4	—	—	—	—	2	2	—	—	—	—
17	—	—	—	—	—	—	2	2	—	—	—	—
15	1	1	—	—	—	—	—	—	—	—	—	—
12	6	6	—	—	—	—	3	3	—	—	—	—

DOMESTIC

Total	284	149	—	67	68	—	319	172	—	73	74	—
27	2	2	—	—	—	—	1	1	—	—	—	—
26	6	6	—	—	—	—	—	—	—	—	—	—
25	—	—	—	—	—	—	2	—	—	—	2	—
24	—	—	—	—	—	—	61	33	—	—	28	—
23	15	10	—	—	5	—	103	71	—	—	32	—
22	18	18	—	—	—	—	26	21	—	—	5	—

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
ALPENA HARBOR, MI - continued												
	Inbound						Outbound					
DOMESTIC												
21	11	11	—	—	—	—	3	3	—	—	—	—
20	31	25	—	6	—	—	7	2	—	4	1	—
19	92	31	—	61	—	—	72	2	—	69	1	—
18	8	8	—	—	—	—	24	19	—	—	5	—
17	7	7	—	—	—	—	10	10	—	—	—	—
16	28	28	—	—	—	—	5	5	—	—	—	—
15	63	—	—	—	63	—	5	5	—	—	—	—
12	3	3	—	—	—	—	—	—	—	—	—	—
										Total trips:		642
SAGINAW RIVER, MI												
	Upbound						Downbound					
Grand Total	398	303	7	43	13	32	482	379	7	46	13	37
FOREIGN												
Total	81	74	—	3	—	4	83	77	2	2	—	2
25	—	—	—	—	—	—	1	1	—	—	—	—
24	1	1	—	—	—	—	13	13	—	—	—	—
23	3	3	—	—	—	—	14	14	—	—	—	—
22	6	6	—	—	—	—	9	9	—	—	—	—
21	33	33	—	—	—	—	20	20	—	—	—	—
20	3	3	—	—	—	—	9	9	—	—	—	—
19	11	11	—	—	—	—	2	—	2	—	—	—
18	16	16	—	—	—	—	2	2	—	—	—	—
16	1	—	—	—	—	1	—	—	—	—	—	—
15	—	—	—	—	—	—	3	3	—	—	—	—
14	2	—	—	2	—	—	7	5	—	2	—	—
13	—	—	—	—	—	—	3	1	—	—	—	—
12	5	1	—	1	—	3	—	—	—	—	—	—
DOMESTIC												
Total	317	229	7	40	13	28	399	302	5	44	13	35
27	—	—	—	—	—	—	1	1	—	—	—	—
26	—	—	—	—	—	—	93	93	—	—	—	—
24	—	—	—	—	—	—	1	1	—	—	—	—
23	—	—	—	—	—	—	9	7	—	—	2	—
22	1	—	1	—	—	—	75	65	4	—	6	—
21	2	1	1	—	—	—	53	53	—	—	—	—
20	12	6	—	6	—	—	51	44	—	5	1	1
19	10	6	—	4	—	—	13	7	—	4	2	—
18	36	27	—	3	6	—	6	2	—	3	—	1
17	117	117	—	—	—	—	18	18	—	—	—	—
16	55	53	—	—	2	—	24	10	—	—	1	13
15	20	16	—	—	4	—	3	1	—	—	—	2
14	4	3	—	1	—	—	1	—	—	1	—	—
13	3	—	—	3	—	—	14	—	—	4	—	10
12	57	—	5	23	1	28	37	—	1	27	1	8
										Total trips:		880
ST. CLAIR RIVER, MI												
	Upbound						Downbound					
Grand Total	3,587	2,917	47	216	226	181	3,340	2,674	46	239	221	160
FOREIGN												
Total	1,724	1,459	37	23	118	87	1,375	1,155	36	20	102	62
29	3	2	1	—	—	—	4	3	1	—	—	—
28	3	2	1	—	—	—	3	1	2	—	—	—
27	18	13	5	—	—	—	80	80	—	—	—	—
26	288	287	—	—	1	—	359	357	—	—	2	—
25	76	75	1	—	—	—	129	121	1	—	1	6
24	143	140	1	—	—	2	92	76	9	—	—	7
23	254	253	1	—	—	—	72	69	2	—	—	1
22	127	125	1	—	—	1	152	148	1	—	1	2
21	124	120	2	—	1	1	87	82	—	—	1	4
20	233	215	9	—	1	8	61	38	1	—	19	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

ST. CLAIR RIVER, MI - continued

Upbound

Downbound

FOREIGN

19	91	74	7	—	—	10	74	60	4	—	6	4
18	63	42	—	1	—	20	30	15	3	—	2	10
17	13	9	2	—	2	—	26	12	2	—	7	5
16	7	1	—	2	4	—	15	2	—	—	11	2
15	23	6	6	—	6	5	46	6	10	1	23	6
14	27	9	—	4	5	9	6	2	—	4	—	—
13	14	1	—	—	5	8	1	1	—	—	—	—
12	217	85	—	16	93	23	138	82	—	15	29	12

DOMESTIC

Total	1,863	1,458	10	193	108	94	1,965	1,519	10	219	119	98
30	—	—	—	—	—	—	9	9	—	—	—	—
29	—	—	—	—	—	—	4	4	—	—	—	—
28	1	1	—	—	—	—	110	110	—	—	—	—
27	11	8	—	3	—	—	526	499	—	2	25	—
26	63	62	—	1	—	—	385	376	—	1	8	—
25	7	5	—	1	1	—	110	94	—	—	16	—
24	52	23	—	24	5	—	95	54	—	30	11	—
23	173	167	—	—	6	—	164	139	—	—	25	—
22	123	110	6	—	7	—	121	113	—	—	8	—
21	64	62	1	—	1	—	61	53	—	—	8	—
20	120	93	—	24	2	1	60	27	—	25	8	—
19	105	100	—	5	—	—	37	22	1	6	7	1
18	461	413	—	25	21	2	41	4	—	26	1	10
17	261	261	—	—	—	—	8	6	—	—	—	2
16	121	86	—	13	21	1	35	4	—	13	—	18
15	64	57	—	—	5	2	17	1	—	—	—	16
14	21	1	—	20	—	—	23	—	—	21	—	2
13	56	—	—	34	14	8	42	—	—	42	—	—
12	160	9	3	43	25	80	117	4	9	53	2	49
Total trips:											6,927	

PORT HURON, MI

Inbound

Outbound

Grand Total	80	72	1	7	—	—	81	71	—	8	1	1
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FOREIGN

Total	51	43	1	7	—	—	53	43	—	8	1	1
26	5	5	—	—	—	—	1	1	—	—	—	—
25	1	1	—	—	—	—	1	1	—	—	—	—
22	—	—	—	—	—	—	1	1	—	—	—	—
21	—	—	—	—	—	—	2	2	—	—	—	—
20	—	—	—	—	—	—	1	—	—	—	—	1
19	—	—	—	—	—	—	1	1	—	—	—	—
18	1	1	—	—	—	—	1	1	—	—	—	—
15	1	—	1	—	—	—	—	—	—	—	—	—
14	—	—	—	—	—	—	1	—	—	1	—	—
12	43	36	—	7	—	—	44	36	—	7	1	—

DOMESTIC

Total	29	29	—	—	—	—	28	28	—	—	—	—
27	1	1	—	—	—	—	—	—	—	—	—	—
26	12	12	—	—	—	—	—	—	—	—	—	—
24	3	3	—	—	—	—	—	—	—	—	—	—
23	4	4	—	—	—	—	—	—	—	—	—	—
22	6	6	—	—	—	—	—	—	—	—	—	—
21	1	1	—	—	—	—	—	—	—	—	—	—
20	1	1	—	—	—	—	—	—	—	—	—	—
18	—	—	—	—	—	—	2	2	—	—	—	—
17	1	1	—	—	—	—	13	13	—	—	—	—
16	—	—	—	—	—	—	4	4	—	—	—	—
15	—	—	—	—	—	—	4	4	—	—	—	—
12	—	—	—	—	—	—	5	5	—	—	—	—
Total trips:											161	

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

MARYSVILLE, MI

	Inbound						Outbound					
Grand Total	103	84	---	9	---	10	99	74	---	16	---	9

FOREIGN

Total	34	34	---	---	---	---	33	30	---	3	---	---
26	14	14	---	---	---	---	1	1	---	---	---	---
25	13	13	---	---	---	---	5	5	---	---	---	---
24	4	4	---	---	---	---	2	2	---	---	---	---
23	---	---	---	---	---	---	6	6	---	---	---	---
22	---	---	---	---	---	---	6	6	---	---	---	---
21	---	---	---	---	---	---	4	4	---	---	---	---
19	---	---	---	---	---	---	3	3	---	---	---	---
18	1	1	---	---	---	---	3	3	---	---	---	---
16	---	---	---	---	---	---	1	---	---	1	---	---
14	---	---	---	---	---	---	2	---	---	2	---	---
12	2	2	---	---	---	---	---	---	---	---	---	---

DOMESTIC

Total	69	50	---	9	---	10	66	44	---	13	---	9
28	1	1	---	---	---	---	---	---	---	---	---	---
27	5	5	---	---	---	---	---	---	---	---	---	---
26	20	20	---	---	---	---	---	---	---	---	---	---
25	1	1	---	---	---	---	---	---	---	---	---	---
24	2	2	---	---	---	---	---	---	---	---	---	---
23	1	1	---	---	---	---	---	---	---	---	---	---
22	4	4	---	---	---	---	1	1	---	---	---	---
21	7	7	---	---	---	---	2	2	---	---	---	---
20	6	6	---	---	---	---	2	2	---	---	---	---
19	---	---	---	---	---	---	3	3	---	---	---	---
18	2	2	---	---	---	---	7	7	---	---	---	---
17	---	---	---	---	---	---	21	21	---	---	---	---
16	4	1	---	2	---	1	4	2	---	2	---	---
15	---	---	---	---	---	---	6	6	---	---	---	---
12	16	---	---	7	---	9	20	---	---	11	---	9
										Total trips:		202

ST. CLAIR, MI

	Inbound						Outbound					
Grand Total	163	119	---	21	---	23	155	112	---	21	---	22

FOREIGN

Total	2	---	---	---	---	2	1	---	---	---	---	1
12	2	---	---	---	---	2	1	---	---	---	---	1

DOMESTIC

Total	161	119	---	21	---	21	154	112	---	21	---	21
28	27	27	---	---	---	---	---	---	---	---	---	---
27	75	75	---	---	---	---	6	6	---	---	---	---
26	13	13	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	8	8	---	---	---	---
23	1	1	---	---	---	---	31	31	---	---	---	---
22	1	1	---	---	---	---	31	31	---	---	---	---
21	---	---	---	---	---	---	30	30	---	---	---	---
20	1	1	---	---	---	---	3	3	---	---	---	---
19	1	1	---	---	---	---	3	3	---	---	---	---
16	11	---	---	11	---	---	11	---	---	11	---	---
12	31	---	---	10	---	21	31	---	---	10	---	21
										Total trips:		318

MARINE CITY, MI

	Inbound						Outbound					
Grand Total	99	97	---	1	1	---	102	100	---	1	1	---

DOMESTIC

Total	99	97	---	1	1	---	102	100	---	1	1	---
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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

MARINE CITY, MI - continued

	Inbound						Outbound					
DOMESTIC												
28	13	13	—	—	—	—	—	—	—	—	—	—
27	32	32	—	—	—	—	—	—	—	—	—	—
26	29	29	—	—	—	—	—	—	—	—	—	—
25	1	1	—	—	—	—	—	—	—	—	—	—
24	3	2	—	—	1	—	1	1	—	—	—	—
23	—	—	—	—	—	—	45	45	—	—	—	—
22	20	20	—	—	—	—	—	—	—	—	—	—
21	—	—	—	—	—	—	1	1	—	—	—	—
18	—	—	—	—	—	—	1	1	—	—	—	—
17	—	—	—	—	—	—	29	29	—	—	—	—
16	—	—	—	—	—	—	22	21	—	—	1	—
15	—	—	—	—	—	—	2	2	—	—	—	—
13	1	—	—	1	—	—	1	—	—	1	—	—
										Total trips:		201

CHANNELS IN LAKE ST. CLAIR

	Upbound						Downbound					
Grand Total	2,870	2,318	38	191	193	130	2,843	2,246	37	225	201	134

FOREIGN

Total	1,247	1,094	28	3	86	36	1,135	981	27	7	83	37
29	3	2	1	—	—	—	4	3	1	—	—	—
28	3	2	1	—	—	—	3	1	2	—	—	—
27	14	9	5	—	—	—	79	79	—	—	—	—
26	196	195	—	—	1	—	347	345	—	—	2	—
25	41	40	1	—	—	—	96	88	1	—	1	6
24	107	104	1	—	—	2	77	61	9	—	—	7
23	198	197	1	—	—	—	60	58	1	—	—	1
22	108	106	1	—	—	1	139	135	1	—	1	2
21	100	96	2	—	1	1	81	76	—	—	1	4
20	216	207	7	—	1	1	56	36	1	—	17	2
19	76	65	4	—	—	7	68	56	3	—	6	3
18	42	39	—	1	—	2	20	11	2	—	2	5
17	9	8	1	—	—	—	19	11	1	—	4	3
16	2	1	—	—	1	—	12	2	—	—	10	—
15	16	6	3	—	5	2	37	6	5	1	23	2
14	20	7	—	—	5	8	—	—	—	—	—	—
13	7	1	—	—	5	1	1	1	—	—	—	—
12	89	9	—	2	67	11	36	12	—	6	16	2

DOMESTIC

Total	1,623	1,224	10	188	107	94	1,708	1,265	10	218	118	97
30	—	—	—	—	—	—	9	9	—	—	—	—
29	—	—	—	—	—	—	4	4	—	—	—	—
28	1	1	—	—	—	—	69	69	—	—	—	—
27	10	7	—	3	—	—	413	386	—	2	25	—
26	63	62	—	1	—	—	315	306	—	1	8	—
25	7	5	—	1	1	—	107	91	—	—	16	—
24	52	23	—	24	5	—	90	50	—	30	10	—
23	103	97	—	—	6	—	164	139	—	—	25	—
22	98	85	6	—	7	—	95	87	—	—	8	—
21	48	46	1	—	1	—	61	53	—	—	8	—
20	116	89	—	24	2	1	60	27	—	25	8	—
19	99	94	—	5	—	—	37	22	1	6	7	1
18	452	404	—	25	21	2	41	4	—	26	1	10
17	198	198	—	—	—	—	8	6	—	—	—	2
16	94	60	—	13	20	1	34	4	—	13	—	17
15	51	44	—	—	5	2	17	1	—	—	—	16
14	21	1	—	20	—	—	23	—	—	21	—	2
13	55	—	—	33	14	8	41	—	—	41	—	—
12	155	8	3	39	25	80	120	7	9	53	2	49
										Total trips:		5,713

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
DETROIT RIVER, MI												
	Upbound						Downbound					
Grand Total	5,039	3,734	61	352	554	338	5,033	3,697	49	413	585	289
FOREIGN												
Total	2,024	1,452	36	49	437	50	1,976	1,388	33	59	446	50
29	3	2	1	—	—	—	4	3	1	—	—	—
28	3	2	1	—	—	—	5	3	2	—	—	—
27	14	9	5	—	—	—	84	84	—	—	—	—
26	245	244	—	—	1	—	367	365	—	—	2	—
25	60	59	1	—	—	—	140	132	1	—	1	6
24	154	151	1	—	—	—	123	107	9	—	—	7
23	221	220	1	—	—	—	101	99	1	—	—	1
22	137	135	1	—	—	1	194	190	1	—	1	2
21	135	126	4	—	1	4	129	120	2	—	1	6
20	244	231	11	—	1	1	92	61	2	—	23	6
19	95	84	4	—	—	7	71	58	4	—	6	3
18	61	54	—	1	—	6	31	22	2	—	2	5
17	9	8	1	—	—	—	29	21	1	—	4	3
16	13	2	—	—	11	—	26	4	—	—	22	—
15	21	6	5	—	6	4	42	7	7	1	25	2
14	29	15	—	—	6	8	3	—	—	—	3	—
13	7	1	—	—	5	1	5	1	—	4	—	—
12	573	103	—	48	406	16	530	111	—	54	356	9
DOMESTIC												
Total	3,015	2,282	25	303	117	288	3,057	2,309	16	354	139	239
30	—	—	—	—	—	—	9	9	—	—	—	—
29	—	—	—	—	—	—	4	4	—	—	—	—
28	1	1	—	—	—	—	70	70	—	—	—	—
27	12	9	—	3	—	—	413	386	—	2	25	—
26	65	64	—	1	—	—	315	306	—	1	8	—
25	7	5	—	1	1	—	108	92	—	—	16	—
24	54	25	—	24	5	—	92	52	—	30	10	—
23	125	119	—	—	6	—	167	142	—	—	25	—
22	120	106	7	—	7	—	98	90	—	—	8	—
21	58	56	1	—	1	—	64	56	—	—	8	—
20	127	100	—	24	2	1	76	36	—	31	9	—
19	122	114	3	5	—	—	66	31	7	8	8	12
18	533	417	—	93	21	2	209	45	—	102	7	55
17	201	201	—	—	—	—	15	12	—	—	—	3
16	96	60	—	15	20	1	56	8	—	15	3	30
15	51	44	—	—	5	2	25	6	—	—	—	19
14	41	1	—	37	—	3	46	—	—	42	—	4
13	60	—	—	38	14	8	47	—	—	45	—	2
12	1,342	960	14	62	35	271	1,177	964	9	78	12	114
										Total trips:		10,072
DETROIT HARBOR, MI												
	Inbound						Outbound					
Grand Total	1,227	1,072	1	57	52	45	1,271	1,139	1	40	46	45
FOREIGN												
Total	74	55	—	1	13	5	76	57	1	—	14	4
26	21	21	—	—	—	—	5	5	—	—	—	—
25	2	2	—	—	—	—	—	—	—	—	—	—
24	14	14	—	—	—	—	12	12	—	—	—	—
23	7	7	—	—	—	—	16	16	—	—	—	—
22	4	4	—	—	—	—	10	10	—	—	—	—
21	1	1	—	—	—	—	1	1	—	—	—	—
20	1	1	—	—	—	—	3	3	—	—	—	—
19	2	2	—	—	—	—	2	1	1	—	—	—
18	2	—	—	—	—	2	2	1	—	—	—	1
17	2	—	—	—	1	1	1	1	—	—	—	—
16	9	1	—	—	8	—	2	2	—	—	—	—
15	2	—	—	—	1	1	1	—	—	—	—	1
12	7	2	—	1	3	1	21	5	—	—	14	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

DETROIT HARBOR, MI - continued

	Inbound						Outbound					
DOMESTIC												
Total	1,153	1,017	1	56	39	40	1,195	1,082	—	40	32	41
28	2	2	—	—	—	—	—	—	—	—	—	—
27	45	44	—	—	1	—	—	—	—	—	—	—
26	10	9	—	—	1	—	—	—	—	—	—	—
25	11	6	—	—	5	—	2	2	—	—	—	—
24	18	11	—	4	3	—	7	3	—	4	—	—
23	32	26	—	—	6	—	1	1	—	—	—	—
22	5	4	1	—	—	—	5	5	—	—	—	—
21	13	10	—	—	3	—	7	7	—	—	—	—
20	22	15	—	1	6	—	15	12	—	1	2	—
19	16	9	—	5	2	—	30	24	—	5	1	—
18	5	5	—	—	—	—	101	100	—	—	1	—
17	—	—	—	—	—	—	17	17	—	—	—	—
16	—	—	—	—	—	—	36	30	—	—	6	—
15	—	—	—	—	—	—	5	3	—	—	2	—
14	12	—	—	12	—	—	11	—	—	11	—	—
13	6	—	—	6	—	—	10	—	—	5	5	—
12	956	876	—	28	12	40	948	878	—	14	15	41
										Total trips:		2,498

ROUGE RIVER, MI

	Inbound						Outbound					
Grand Total	915	398	15	158	127	217	829	330	7	155	114	223
FOREIGN												
Total	180	53	—	1	106	20	163	47	1	—	95	20
26	9	9	—	—	—	—	1	1	—	—	—	—
25	13	6	—	—	1	6	—	—	—	—	—	—
24	14	7	—	—	—	7	6	4	—	—	—	2
23	5	4	—	—	—	1	7	7	—	—	—	—
22	8	8	—	—	—	—	10	9	—	—	—	1
21	10	10	—	—	—	—	6	6	—	—	—	—
20	4	3	—	—	—	1	7	6	1	—	—	—
19	1	1	—	—	—	—	7	3	—	—	—	4
18	6	4	—	—	—	2	2	1	—	—	—	1
17	4	—	—	—	3	1	9	9	—	—	—	—
16	8	—	—	—	8	—	5	—	—	—	5	—
15	2	—	—	—	2	—	3	1	—	—	1	1
14	1	—	—	—	1	—	10	—	—	—	4	6
13	—	—	—	—	—	—	1	—	—	—	—	1
12	95	1	—	1	91	2	89	—	—	—	85	4
DOMESTIC												
Total	735	345	15	157	21	197	666	283	6	155	19	203
28	19	19	—	—	—	—	—	—	—	—	—	—
27	64	63	—	—	1	—	—	—	—	—	—	—
26	42	39	—	—	3	—	1	1	—	—	—	—
25	48	37	—	—	11	—	1	1	—	—	—	—
24	23	18	—	3	2	—	3	—	—	3	—	—
23	47	43	—	—	4	—	2	2	—	—	—	—
22	26	26	—	—	—	—	1	1	—	—	—	—
21	15	15	—	—	—	—	1	1	—	—	—	—
20	20	5	—	15	—	—	19	4	—	14	—	1
19	18	13	4	—	—	1	19	2	6	—	—	11
18	90	4	—	80	—	6	299	157	—	85	14	43
17	—	—	—	—	—	—	31	30	—	—	—	1
16	15	—	—	3	—	—	28	10	—	3	2	13
15	9	—	—	—	—	9	11	8	—	—	—	3
14	22	—	—	19	—	3	22	—	—	20	—	2
13	9	—	—	9	—	—	7	—	—	3	—	4
12	268	63	11	28	—	166	221	66	—	27	3	125
										Total trips:		1,744

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
ECORSE, MI												
	Inbound						Outbound					
Grand Total	46	40	---	3	1	2	49	38	---	4	4	3
FOREIGN												
Total	27	26	---	---	1	---	28	24	---	---	4	---
23	22	22	---	---	---	---	18	18	---	---	---	---
22	1	1	---	---	---	---	2	2	---	---	---	---
20	---	---	---	---	---	---	1	1	---	---	---	---
19	1	1	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	1	1	---	---	---	---
12	3	2	---	---	1	---	6	2	---	---	4	---
DOMESTIC												
Total	19	14	---	3	---	2	21	14	---	4	---	3
23	1	1	---	---	---	---	---	---	---	---	---	---
22	8	8	---	---	---	---	---	---	---	---	---	---
21	2	2	---	---	---	---	---	---	---	---	---	---
20	1	1	---	---	---	---	---	---	---	---	---	---
19	1	1	---	---	---	---	1	1	---	---	---	---
18	3	1	---	2	---	---	14	12	---	2	---	---
17	---	---	---	---	---	---	1	1	---	---	---	---
14	1	---	---	1	---	---	2	---	---	2	---	---
12	2	---	---	---	---	2	3	---	---	---	---	3
											Total trips:	95
PORT OF DETROIT, MI												
	Inbound						Outbound					
Grand Total	2,319	1,602	16	238	181	282	2,055	1,471	8	201	165	210
FOREIGN												
Total	283	135	---	2	121	25	268	128	2	---	114	24
26	40	40	---	---	---	---	6	6	---	---	---	---
25	17	10	---	---	1	6	1	1	---	---	---	---
24	35	28	---	---	---	7	33	31	---	---	---	2
23	15	14	---	---	---	1	25	25	---	---	---	---
22	13	13	---	---	---	---	22	21	---	---	---	1
21	11	11	---	---	---	---	7	7	---	---	---	---
20	5	4	---	---	---	1	11	10	1	---	---	---
19	4	4	---	---	---	---	9	4	1	---	---	4
18	9	5	---	---	---	4	5	3	---	---	---	2
17	6	---	---	---	4	2	10	10	---	---	---	---
16	17	1	---	---	16	---	7	2	---	---	5	---
15	5	---	---	---	4	1	5	1	---	---	2	2
14	1	---	---	---	1	---	10	---	---	---	4	6
13	---	---	---	---	---	---	1	---	---	---	---	1
12	105	5	---	2	95	3	116	7	---	---	103	6
DOMESTIC												
Total	2,036	1,467	16	236	60	257	1,787	1,343	6	201	51	186
28	21	21	---	---	---	---	---	---	---	---	---	---
27	109	107	---	---	2	---	---	---	---	---	---	---
26	52	48	---	---	4	---	1	1	---	---	---	---
25	59	43	---	---	16	---	2	2	---	---	---	---
24	41	29	---	7	5	---	9	2	---	7	---	---
23	80	70	---	---	10	---	3	3	---	---	---	---
22	40	39	1	---	---	---	5	5	---	---	---	---
21	30	27	---	---	3	---	7	7	---	---	---	---
20	45	23	---	16	6	---	39	21	---	15	2	1
19	40	28	4	5	2	1	51	28	6	5	1	11
18	102	14	---	82	---	6	408	267	---	83	15	43
17	3	3	---	---	---	---	55	54	---	---	---	1
16	26	---	---	14	---	12	75	40	---	14	8	13
15	9	---	---	---	---	9	16	11	---	---	2	3
14	36	---	---	33	---	3	32	---	---	30	---	2
13	16	---	---	15	---	1	16	---	---	8	5	3
12	1,327	1,015	11	64	12	225	1,068	902	---	39	18	109
											Total trips:	4,374

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
MONROE HARBOR, MI												
	Inbound						Outbound					
Grand Total	75	63	---	7	---	5	69	62	---	4	---	3
FOREIGN												
Total	1	1	---	---	---	---	1	1	---	---	---	---
25	1	1	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	1	1	---	---	---	---
DOMESTIC												
Total	74	62	---	7	---	5	68	61	---	4	---	3
28	3	3	---	---	---	---	---	---	---	---	---	---
27	8	8	---	---	---	---	---	---	---	---	---	---
26	2	2	---	---	---	---	---	---	---	---	---	---
25	8	8	---	---	---	---	---	---	---	---	---	---
23	6	6	---	---	---	---	12	12	---	---	---	---
22	10	10	---	---	---	---	12	12	---	---	---	---
21	22	22	---	---	---	---	2	2	---	---	---	---
20	2	2	---	---	---	---	1	1	---	---	---	---
19	---	---	---	---	---	---	11	11	---	---	---	---
18	3	1	---	2	---	---	19	17	---	2	---	---
17	2	---	---	---	---	2	5	5	---	---	---	---
16	1	---	---	---	---	1	---	---	---	---	---	---
15	1	---	---	---	---	1	1	1	---	---	---	---
14	2	---	---	1	---	---	---	---	---	---	---	---
13	2	---	---	2	---	---	---	---	---	---	---	---
9	2	---	---	2	---	---	2	---	---	2	---	---
8	---	---	---	---	---	---	2	---	---	---	---	2
5	---	---	---	---	---	---	1	---	---	---	---	1
											Total trips:	144

CALCITE, MI												
	Inbound						Outbound					
Grand Total	415	399	---	8	8	---	418	400	---	9	9	---
FOREIGN												
Total	65	65	---	---	---	---	62	62	---	---	---	---
26	---	---	---	---	---	---	6	6	---	---	---	---
25	---	---	---	---	---	---	32	32	---	---	---	---
24	4	4	---	---	---	---	10	10	---	---	---	---
23	9	9	---	---	---	---	10	10	---	---	---	---
22	11	11	---	---	---	---	4	4	---	---	---	---
21	22	22	---	---	---	---	---	---	---	---	---	---
20	4	4	---	---	---	---	---	---	---	---	---	---
19	10	10	---	---	---	---	---	---	---	---	---	---
18	1	1	---	---	---	---	---	---	---	---	---	---
15	2	2	---	---	---	---	---	---	---	---	---	---
12	2	2	---	---	---	---	---	---	---	---	---	---
DOMESTIC												
Total	350	334	---	8	8	---	356	338	---	9	9	---
29	---	---	---	---	---	---	2	2	---	---	---	---
28	---	---	---	---	---	---	3	3	---	---	---	---
27	---	---	---	---	---	---	13	13	---	---	---	---
26	1	1	---	---	---	---	135	135	---	---	---	---
25	2	1	---	1	---	---	65	60	---	2	3	---
24	1	---	---	---	1	---	17	16	---	---	1	---
23	5	5	---	---	---	---	49	44	---	---	5	---
22	28	28	---	---	---	---	50	50	---	---	---	---
21	10	10	---	---	---	---	4	4	---	---	---	---
20	67	61	---	6	---	---	10	4	---	6	---	---
19	16	16	---	---	---	---	4	4	---	---	---	---
18	72	66	---	---	6	---	1	1	---	---	---	---
17	88	88	---	---	---	---	2	2	---	---	---	---
16	35	34	---	---	1	---	---	---	---	---	---	---
15	23	23	---	---	---	---	---	---	---	---	---	---
14	1	1	---	---	---	---	---	---	---	---	---	---
13	1	---	---	1	---	---	1	---	---	1	---	---
											Total trips:	833

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
ESCANABA, MI												
	Inbound						Outbound					
Grand Total	299	229	---	35	34	1	309	228	---	41	39	1
DOMESTIC												
Total	299	229	---	35	34	1	309	228	---	41	39	1
30	---	---	---	---	---	---	30	30	---	---	---	---
29	---	---	---	---	---	---	26	26	---	---	---	---
28	---	---	---	---	---	---	47	44	---	---	3	---
27	3	3	---	---	---	---	104	86	---	---	18	---
26	5	5	---	---	---	---	18	8	---	---	10	---
25	5	5	---	---	---	---	8	1	---	---	7	---
24	40	20	---	20	---	---	21	---	---	21	---	---
23	25	25	---	---	---	---	---	---	---	---	---	---
22	2	2	---	---	---	---	2	2	---	---	---	---
21	102	102	---	---	---	---	16	16	---	---	---	---
20	20	12	---	8	---	---	12	3	---	9	---	---
19	10	10	---	---	---	---	1	1	---	---	---	---
18	46	37	---	1	8	---	4	3	---	1	---	---
17	5	5	---	---	---	---	5	5	---	---	---	---
16	7	---	---	---	6	1	1	1	---	---	---	---
15	3	3	---	---	---	---	2	2	---	---	---	---
13	6	---	---	6	---	---	8	---	---	8	---	---
9	19	---	---	---	19	---	2	---	---	2	---	---
6	---	---	---	---	---	---	1	---	---	---	---	1
3	1	---	---	---	1	---	1	---	---	---	1	---
											Total trips:	608

STONEPORT, MI

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	481	417	---	32	32	---	499	423	---	39	37	---
FOREIGN												
Total	12	12	---	---	---	---	11	11	---	---	---	---
26	---	---	---	---	---	---	1	1	---	---	---	---
25	---	---	---	---	---	---	7	7	---	---	---	---
24	---	---	---	---	---	---	3	3	---	---	---	---
22	2	2	---	---	---	---	---	---	---	---	---	---
21	2	2	---	---	---	---	---	---	---	---	---	---
20	3	3	---	---	---	---	---	---	---	---	---	---
19	4	4	---	---	---	---	---	---	---	---	---	---
18	1	1	---	---	---	---	---	---	---	---	---	---
DOMESTIC												
Total	469	405	---	32	32	---	488	412	---	39	37	---
28	---	---	---	---	---	---	2	2	---	---	---	---
27	1	1	---	---	---	---	17	16	---	---	1	---
26	4	4	---	---	---	---	145	143	---	---	2	---
25	---	---	---	---	---	---	63	55	---	---	8	---
24	---	---	---	---	---	---	34	23	---	2	9	---
23	3	3	---	---	---	---	60	50	---	---	10	---
22	9	9	---	---	---	---	71	64	---	---	7	---
21	6	6	---	---	---	---	31	31	---	---	---	---
20	27	9	---	16	2	---	29	13	---	16	---	---
19	6	6	---	---	---	---	7	7	---	---	---	---
18	129	113	---	---	16	---	5	5	---	---	---	---
17	177	177	---	---	---	---	2	2	---	---	---	---
16	63	49	---	---	14	---	1	1	---	---	---	---
15	27	27	---	---	---	---	---	---	---	---	---	---
14	1	1	---	---	---	---	---	---	---	---	---	---
13	16	---	---	16	---	---	21	---	---	21	---	---
											Total trips:	980

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
ALGOMA HARBOR, WI No Vessel Trips Reported												
ALGONAC, MI (25 feet and less)												
				Inbound						Outbound		
Grand Total	1	1	---	---	---	---	2	2	---	---	---	---
										Total trips:	---	3
ASHLAND HARBOR, WI (25 feet and less)												
				Inbound						Outbound		
Grand Total	8	8	---	---	---	---	8	8	---	---	---	---
										Total trips:	---	16
AU SABLE HARBOR AND RIVER (OSCODA), MI No Vessel Trips Reported												
BAYFIELD HARBOR, WI (8 feet and less)												
				Inbound						Outbound		
Grand Total	6,426	6,426	---	---	---	---	6,426	6,426	---	---	---	---
										Total trips:	---	12,852
BEAVER BAY HARBOR, MN No Vessel Trips Reported												
BIG BAY HARBOR, MI No Vessel Trips Reported												
BLACK RIVER HARBOR, MI No Vessel Trips Reported												
CASEVILLE, MI No Vessel Trips Reported												
CEDAR RIVER HARBOR, MI No Vessel Trips Reported												
CHIPPEWA HARBOR (ISLE ROYALE), MI No Vessel Trips Reported												
CORNUCOPIA HARBOR, WI No Vessel Trips Reported												
DETOUR, MI AND VICINITY (22 feet and less)												
				Inbound						Outbound		
Grand Total	17,648	17,648	---	---	---	---	17,738	17,738	---	---	---	---
										Total trips:	---	35,386
DETROIT HARBOR, WI (8 feet and less)												
				Inbound						Outbound		
Grand Total	4,129	4,129	---	---	---	---	4,129	4,129	---	---	---	---
										Total trips:	---	8,258
EAGLE HARBOR, MI 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
FRANKFORT HARBOR, MI (18 feet and less)												
			Inbound						Outbound			
Grand Total	50	---	---	24	---	26	45	---	---	23	---	22
										Total trips:		95
GLADSTONE HARBOR, MI (22 feet and less)												
			Inbound						Outbound			
Grand Total	18	7	---	6	---	5	16	7	---	4	---	5
										Total trips:		34
GRAND MARAIS HARBOR (HARBOR OF REFUGE), MI No Vessel Trips Reported												
GRAND MARAIS HARBOR, MN No Vessel Trips Reported												
GRAND TRAVERSE BAY HARBOR, MI (11 feet and less)												
			Inbound						Outbound			
Grand Total	95	95	---	---	---	---	95	95	---	---	---	---
										Total trips:		190
HARBOR BEACH, MI (HARBOR OF REFUGE, LAKE HURON) (19 feet and less)												
			Inbound						Outbound			
Grand Total	9	9	---	---	---	---	9	9	---	---	---	---
										Total trips:		18
HARRISVILLE HARBOR, MI (HARBOR OF REFUGE, LAKE HURON) No Vessel Trips Reported												
KENOSHA HARBOR, WI (7 feet and less)												
			Inbound						Outbound			
Grand Total	160	---	---	80	80	---	160	---	---	80	80	---
										Total trips:		320
KEWAUNEE HARBOR, WI No Vessel Trips Reported												
KEWEENAW WATERWAY, MI (12 feet and less)												
			Upbound						Downbound			
Grand Total	76	65	---	---	9	2	74	64	---	---	8	2
										Total trips:		150
KNIFE RIVER HARBOR, MN No Vessel Trips Reported												
LA POINTE HARBOR, WI (8 feet and less)												
			Inbound						Outbound			
Grand Total	5,815	5,815	---	---	---	---	5,815	5,815	---	---	---	---
										Total trips:		11,630
LAC LA BELLE HARBOR, MI 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
LELAND HARBOR, MI (6 feet and less)												
			Inbound						Outbound			
Grand Total	231	231	---	---	---	---	231	231	---	---	---	---
										Total trips:		462
LIME ISLAND, MI No Vessel Trips Reported												
LUTSEN HARBOR, MN No Vessel Trips Reported												
MACKINAC HARBOR, MI (9 feet and less)												
			Inbound						Outbound			
Grand Total	14,533	14,533	---	---	---	---	14,503	14,503	---	---	---	---
										Total trips:		29,036
MACKINAW CITY HARBOR, MI (9 feet and less)												
			Inbound						Outbound			
Grand Total	6,352	6,352	---	---	---	---	6,284	6,284	---	---	---	---
										Total trips:		12,636
MANISTIQUE HARBOR, MI (6 feet and less)												
			Inbound						Outbound			
Grand Total	45	---	---	22	---	23	46	---	---	23	---	23
										Total trips:		91
MENOMINEE HARBOR AND RIVER, MI AND WI (23 feet and less)												
			Inbound						Outbound			
Grand Total	21	13	---	6	2	---	20	13	---	---	6	1
										Total trips:		41
NEW BUFFALO HARBOR, MI No Vessel Trips Reported												
OCONTO HARBOR, WI No Vessel Trips Reported												
ONTONAGON HARBOR, MI (20 feet and less)												
			Inbound						Outbound			
Grand Total	6	6	---	---	---	---	6	6	---	---	---	---
										Total trips:		12
PENSAUKEE HARBOR, WI No Vessel Trips Reported												
PENTWATER HARBOR, MI No Vessel Trips Reported												
PORT SANILAC HARBOR, MI No Vessel Trips Reported												
PORT WING HARBOR, WI 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
PUT-IN-BAY HARBOR, OH (7 feet and less)												
	Inbound						Outbound					
Grand Total	8,772	8,661	111	---	---	---	8,778	8,667	111	---	---	---
											Total trips:	17,550
RACINE HARBOR, WI No Vessel Trips Reported												
ROGERS CITY, MI No Vessel Trips Reported												
SAUGATUCK HARBOR AND KALAMAZOO RIVER, MI (9 feet and less)												
	Upbound						Downbound					
Grand Total	49	---	---	21	28	---	49	---	---	21	28	---
											Total trips:	98
SAULT STE. MARIE, MI (26 feet and less)												
	Inbound						Outbound					
Grand Total	27,884	27,866	---	11	7	---	27,882	27,865	---	11	6	---
											Total trips:	55,766
SEBEWAING, MI No Vessel Trips Reported												
SHEBOYGAN HARBOR, WI No Vessel Trips Reported												
SOUTH HAVEN HARBOR, MI No Vessel Trips Reported												
ST. JAMES (BEAVER ISLAND), MI (8 feet and less)												
	Inbound						Outbound					
Grand Total	428	382	---	23	---	23	426	381	---	22	---	23
											Total trips:	854
STURGEON BAY AND LAKE MICHIGAN SHIP CANAL, WI (26 feet and less)												
	Upbound						Downbound					
Grand Total	5	3	---	1	---	1	76	28	---	33	4	11
											Total trips:	81
TRAVERSE CITY HARBOR, MI (21 feet and less)												
	Inbound						Outbound					
Grand Total	294	174	2	55	---	63	296	174	2	61	---	59
											Total trips:	590
TRENTON, MI (20 feet and less)												
	Inbound						Outbound					
Grand Total	43	7	---	18	---	18	42	6	---	18	---	18
											Total trips:	85
TWO RIVERS HARBOR, WI 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
WARROAD HARBOR, MN No Vessel Trips Reported												
WHITE LAKE HARBOR, MI (6 feet and less)												
				Inbound							Outbound	
Grand Total	1	1	---	---	---	---	1	1	---	---	---	---
										Total trips:	---	2
WHITEFISH POINT HARBOR, MI No Vessel Trips Reported												
WYANDOTTE, MI (22 feet and less)												
				Inbound							Outbound	
Grand Total	87	86	---	---	1	---	86	85	---	---	1	---
										Total trips:	---	173
ALABASTER, MI (25 feet and less)												
				Inbound							Outbound	
Grand Total	69	61	---	4	4	---	68	60	---	4	4	---
										Total trips:	---	137
MARBLEHEAD, OH (26 feet and less)												
				Inbound							Outbound	
Grand Total	12,372	12,281	---	45	46	---	12,363	12,269	---	47	47	---
										Total trips:	---	24,735
PORT DOLOMITE, MI (27 feet and less)												
				Inbound							Outbound	
Grand Total	177	137	---	20	20	---	183	139	---	22	22	---
										Total trips:	---	360
PORT GYPSUM, MI (20 feet and less)												
				Inbound							Outbound	
Grand Total	34	34	---	---	---	---	34	34	---	---	---	---
										Total trips:	---	68
PORT INLAND, MI (28 feet and less)												
				Inbound							Outbound	
Grand Total	290	274	---	8	8	---	291	275	---	8	8	---
										Total trips:	---	581
SILVER BAY, MN (30 feet and less)												
				Inbound							Outbound	
Grand Total	183	183	---	---	---	---	185	185	---	---	---	---
										Total trips:	---	368

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
TOLEDO HARBOR, OH												
	Inbound						Outbound					
Grand Total	1,432	1,155	40	111	25	101	1,469	1,161	45	122	30	111
FOREIGN												
Total	412	371	16	—	14	11	433	376	23	—	16	18
28	—	—	—	—	—	—	6	6	—	—	—	—
27	—	—	—	—	—	—	17	17	—	—	—	—
26	14	14	—	—	—	—	123	123	—	—	—	—
25	18	18	—	—	—	—	14	14	—	—	—	—
24	51	51	—	—	—	—	25	25	—	—	—	—
23	51	51	—	—	—	—	80	80	—	—	—	—
22	109	108	—	—	1	—	22	22	—	—	—	—
21	37	37	—	—	—	—	19	16	2	—	—	1
20	44	41	—	—	3	—	21	10	9	—	1	1
19	20	15	2	—	1	2	27	19	4	—	—	4
18	11	8	2	—	1	—	15	11	—	—	—	4
17	3	1	2	—	—	—	5	4	1	—	—	—
16	1	1	—	—	—	—	—	—	—	—	—	—
15	9	1	7	—	—	1	8	1	7	—	—	—
14	1	1	—	—	—	—	2	2	—	—	—	—
13	1	—	1	—	—	—	1	1	—	—	—	—
12	42	24	2	—	8	8	48	25	—	—	15	8
DOMESTIC												
Total	1,020	784	24	111	11	90	1,036	785	22	122	14	93
29	1	1	—	—	—	—	—	—	—	—	—	—
28	7	7	—	—	—	—	—	—	—	—	—	—
27	38	38	—	—	—	—	6	6	—	—	—	—
26	75	75	—	—	—	—	15	15	—	—	—	—
25	1	1	—	—	—	—	3	3	—	—	—	—
24	4	4	—	—	—	—	2	2	—	—	—	—
23	1	1	—	—	—	—	23	23	—	—	—	—
22	10	10	—	—	—	—	39	24	10	—	5	—
21	14	12	—	—	2	—	20	18	1	—	1	—
20	29	29	—	—	—	—	31	31	—	—	—	—
19	23	13	6	3	1	—	28	22	3	3	—	—
18	64	32	—	28	—	4	87	56	—	26	—	5
17	20	19	—	—	1	—	50	49	—	—	—	1
16	27	6	—	3	7	11	10	4	—	3	1	2
15	18	15	—	—	—	3	15	11	—	—	2	2
14	9	—	—	8	—	1	10	—	—	7	—	3
13	9	—	—	9	—	—	35	—	—	13	5	17
12	670	521	18	60	—	71	662	521	8	70	—	63
										Total trips:		2,901
KELLEYS ISLAND, OH												
	Inbound						Outbound					
Grand Total	13,203	12,966	—	116	121	—	13,215	12,979	—	116	120	—
DOMESTIC												
Total	13,203	12,966	—	116	121	—	13,215	12,979	—	116	120	—
20	—	—	—	—	—	—	46	—	—	—	46	—
19	—	—	—	—	—	—	49	—	—	—	49	—
18	—	—	—	—	—	—	4	—	—	—	4	—
13	107	—	—	83	24	—	85	—	—	84	1	—
11	—	—	—	—	—	—	20	—	—	—	20	—
10	33	—	—	33	—	—	32	—	—	32	—	—
7	10,557	10,557	—	—	—	—	10,557	10,557	—	—	—	—
6	352	275	—	—	77	—	288	288	—	—	—	—
5	860	860	—	—	—	—	860	860	—	—	—	—
4	1,274	1,274	—	—	—	—	1,274	1,274	—	—	—	—
2	20	—	—	—	20	—	—	—	—	—	—	—
										Total trips:		26,418

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

SANDUSKY HARBOR, OH

	Inbound						Outbound					
Grand Total	341	337	---	2	2	---	335	329	---	3	3	---

FOREIGN

Total	120	120	---	---	---	---	109	109	---	---	---	---
28	---	---	---	---	---	---	1	1	---	---	---	---
27	---	---	---	---	---	---	5	5	---	---	---	---
26	9	9	---	---	---	---	79	79	---	---	---	---
25	---	---	---	---	---	---	1	1	---	---	---	---
24	9	9	---	---	---	---	2	2	---	---	---	---
23	17	17	---	---	---	---	3	3	---	---	---	---
22	51	51	---	---	---	---	2	2	---	---	---	---
21	8	8	---	---	---	---	2	2	---	---	---	---
20	8	8	---	---	---	---	---	---	---	---	---	---
19	2	2	---	---	---	---	1	1	---	---	---	---
12	16	16	---	---	---	---	13	13	---	---	---	---

DOMESTIC

Total	221	217	---	2	2	---	226	220	---	3	3	---
26	---	---	---	---	---	---	11	11	---	---	---	---
24	---	---	---	---	---	---	1	1	---	---	---	---
23	---	---	---	---	---	---	8	8	---	---	---	---
22	3	3	---	---	---	---	7	6	---	---	1	---
21	---	---	---	---	---	---	5	5	---	---	---	---
20	2	1	---	---	1	---	8	8	---	---	---	---
19	1	1	---	---	---	---	11	11	---	---	---	---
18	20	20	---	---	---	---	3	3	---	---	---	---
17	23	23	---	---	---	---	1	1	---	---	---	---
16	5	4	---	---	1	---	1	1	---	---	---	---
15	3	3	---	---	---	---	1	1	---	---	---	---
14	---	---	---	---	---	---	2	1	---	1	---	---
13	1	---	---	1	---	---	2	---	---	1	1	---
12	163	162	---	1	---	---	165	163	---	1	1	---

Total trips: 676

HURON HARBOR, OH

	Inbound						Outbound					
Grand Total	146	34	---	56	56	---	130	30	---	50	50	---

DOMESTIC

Total	146	34	---	56	56	---	130	30	---	50	50	---
27	27	11	---	---	16	---	---	---	---	---	---	---
26	16	14	---	---	2	---	---	---	---	---	---	---
25	5	5	---	---	---	---	---	---	---	---	---	---
24	19	2	---	17	---	---	11	---	---	11	---	---
23	1	1	---	---	---	---	---	---	---	---	---	---
22	1	1	---	---	---	---	1	1	---	---	---	---
21	---	---	---	---	---	---	1	1	---	---	---	---
20	1	---	---	1	---	---	3	2	---	1	---	---
18	---	---	---	---	---	---	11	10	---	---	1	---
17	---	---	---	---	---	---	14	14	---	---	---	---
15	---	---	---	---	---	---	2	2	---	---	---	---
12	76	---	---	38	38	---	87	---	---	38	49	---

Total trips: 276

LORAIN HARBOR, OH

	Inbound						Outbound					
Grand Total	547	478	---	34	35	---	533	465	---	34	34	---

FOREIGN

Total	16	15	---	---	1	---	15	15	---	---	---	---
26	4	4	---	---	---	---	---	---	---	---	---	---
25	4	4	---	---	---	---	---	---	---	---	---	---
24	1	1	---	---	---	---	---	---	---	---	---	---
23	2	2	---	---	---	---	3	3	---	---	---	---
22	1	1	---	---	---	---	5	5	---	---	---	---

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
LORAIN HARBOR, OH - continued												
	Inbound						Outbound					
FOREIGN												
21	2	2	—	—	—	—	3	3	—	—	—	—
19	1	1	—	—	—	—	4	4	—	—	—	—
18	1	—	—	—	1	—	—	—	—	—	—	—
DOMESTIC												
Total	531	463	—	34	34	—	518	450	—	34	34	—
30	3	3	—	—	—	—	—	—	—	—	—	—
28	18	18	—	—	—	—	1	1	—	—	—	—
27	104	102	—	—	2	—	35	35	—	—	—	—
26	39	39	—	—	—	—	74	74	—	—	—	—
25	1	1	—	—	—	—	17	16	—	—	1	—
24	8	4	—	3	1	—	46	41	—	3	2	—
23	3	1	—	—	2	—	91	80	—	—	11	—
22	6	6	—	—	—	—	79	71	—	—	8	—
21	—	—	—	—	—	—	21	18	—	—	3	—
20	12	3	—	7	2	—	19	12	—	7	—	—
19	15	13	—	—	2	—	6	6	—	—	—	—
18	5	1	—	—	4	—	38	36	—	—	2	—
17	84	84	—	—	—	—	23	23	—	—	—	—
16	141	124	—	—	17	—	2	2	—	—	—	—
15	48	48	—	—	—	—	18	18	—	—	—	—
14	1	1	—	—	—	—	—	—	—	—	—	—
13	20	—	—	20	—	—	20	—	—	20	—	—
12	23	15	—	4	4	—	28	17	—	4	7	—
										Total trips:		1,080

CLEVELAND HARBOR, OH

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	2,009	1,404	2	281	230	92	1,962	1,382	1	272	226	81
FOREIGN												
Total	188	135	2	—	42	9	168	125	1	—	39	3
29	1	1	—	—	—	—	—	—	—	—	—	—
27	1	1	—	—	—	—	—	—	—	—	—	—
26	38	38	—	—	—	—	1	1	—	—	—	—
25	30	30	—	—	—	—	3	3	—	—	—	—
24	15	15	—	—	—	—	18	18	—	—	—	—
23	10	10	—	—	—	—	29	28	1	—	—	—
22	21	19	—	—	—	2	8	8	—	—	—	—
21	16	9	1	—	1	5	10	10	—	—	—	—
20	18	5	—	—	13	—	13	13	—	—	—	—
19	6	1	—	—	5	—	10	8	—	—	—	2
18	4	3	1	—	—	—	21	21	—	—	—	—
17	2	2	—	—	—	—	9	9	—	—	—	—
16	1	1	—	—	—	—	1	—	—	—	1	—
15	22	—	—	—	21	1	5	1	—	—	4	—
14	1	—	—	—	1	—	7	5	—	—	1	1
13	—	—	—	—	—	—	5	—	—	—	5	—
12	2	—	—	—	1	1	28	—	—	—	28	—
DOMESTIC												
Total	1,821	1,269	—	281	188	83	1,794	1,257	—	272	187	78
29	1	1	—	—	—	—	—	—	—	—	—	—
28	1	1	—	—	—	—	—	—	—	—	—	—
27	57	57	—	—	—	—	—	—	—	—	—	—
26	115	115	—	—	—	—	12	12	—	—	—	—
25	26	26	—	—	—	—	—	—	—	—	—	—
24	51	47	—	—	4	—	—	—	—	—	—	—
23	107	93	—	—	14	—	14	10	—	—	4	—
22	140	109	—	—	31	—	30	30	—	—	—	—
21	34	27	—	—	7	—	13	13	—	—	—	—
20	84	7	—	28	49	—	50	21	—	27	2	—
19	52	8	—	2	35	7	13	12	—	1	—	—
18	110	30	—	45	5	30	118	48	—	43	27	—
17	30	27	—	—	—	3	145	144	—	—	1	—
16	13	3	—	—	3	7	181	155	—	—	26	—
15	5	—	—	—	—	5	86	85	—	—	1	—
14	9	—	—	7	—	2	7	1	—	6	—	—
13	135	—	—	124	1	10	148	—	—	121	27	—

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

CLEVELAND HARBOR, OH - continued

Inbound							Outbound					
DOMESTIC												
12	851	718	—	75	39	19	977	726	—	74	99	78
											Total trips:	3,971

FAIRPORT HARBOR, OH

Inbound							Outbound					
Grand Total	451	416	—	16	19	—	447	414	—	15	18	—
DOMESTIC												
Total	451	416	—	16	19	—	447	414	—	15	18	—
28	1	1	—	—	—	—	—	—	—	—	—	—
27	4	4	—	—	—	—	—	—	—	—	—	—
26	19	19	—	—	—	—	—	—	—	—	—	—
25	2	2	—	—	—	—	6	6	—	—	—	—
24	4	1	—	—	3	—	7	7	—	—	—	—
23	38	29	—	—	9	—	6	6	—	—	—	—
22	47	45	—	—	2	—	5	5	—	—	—	—
21	7	5	—	—	2	—	2	2	—	—	—	—
20	14	9	—	2	3	—	10	6	—	2	2	—
19	6	6	—	—	—	—	2	2	—	—	—	—
18	5	5	—	—	—	—	8	6	—	—	2	—
17	6	6	—	—	—	—	28	28	—	—	—	—
16	—	—	—	—	—	—	16	4	—	—	12	—
15	—	—	—	—	—	—	44	44	—	—	—	—
14	—	—	—	—	—	—	1	1	—	—	—	—
13	13	—	—	13	—	—	13	—	—	12	1	—
12	285	284	—	1	—	—	299	297	—	1	1	—
											Total trips:	898

ASHTABULA HARBOR, OH

Inbound							Outbound					
Grand Total	515	495	—	11	9	—	527	509	—	9	9	—
FOREIGN												
Total	298	298	—	—	—	—	312	312	—	—	—	—
28	—	—	—	—	—	—	2	2	—	—	—	—
27	1	1	—	—	—	—	27	27	—	—	—	—
26	65	65	—	—	—	—	207	207	—	—	—	—
25	2	2	—	—	—	—	7	7	—	—	—	—
24	44	44	—	—	—	—	1	1	—	—	—	—
23	106	106	—	—	—	—	29	29	—	—	—	—
22	44	44	—	—	—	—	10	10	—	—	—	—
21	9	9	—	—	—	—	3	3	—	—	—	—
20	14	14	—	—	—	—	16	16	—	—	—	—
19	5	5	—	—	—	—	5	5	—	—	—	—
18	4	4	—	—	—	—	2	2	—	—	—	—
17	—	—	—	—	—	—	2	2	—	—	—	—
16	—	—	—	—	—	—	1	1	—	—	—	—
15	1	1	—	—	—	—	—	—	—	—	—	—
14	1	1	—	—	—	—	—	—	—	—	—	—
13	1	1	—	—	—	—	—	—	—	—	—	—
12	1	1	—	—	—	—	—	—	—	—	—	—
DOMESTIC												
Total	217	197	—	11	9	—	215	197	—	9	9	—
30	6	6	—	—	—	—	—	—	—	—	—	—
29	1	1	—	—	—	—	—	—	—	—	—	—
28	15	15	—	—	—	—	—	—	—	—	—	—
27	46	43	—	—	3	—	3	3	—	—	—	—
26	44	43	—	—	1	—	26	26	—	—	—	—
25	16	13	—	—	3	—	2	2	—	—	—	—
24	8	2	—	4	2	—	9	5	—	4	—	—
23	5	5	—	—	—	—	6	6	—	—	—	—
22	5	5	—	—	—	—	7	7	—	—	—	—
21	11	11	—	—	—	—	16	16	—	—	—	—
20	8	3	—	5	—	—	26	21	—	5	—	—

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

ASHTABULA HARBOR, OH - continued

	Inbound						Outbound					
DOMESTIC												
19	2	2	—	—	—	—	20	20	—	—	—	—
18	15	15	—	—	—	—	59	54	—	—	5	—
17	18	18	—	—	—	—	32	32	—	—	—	—
16	8	8	—	—	—	—	3	3	—	—	—	—
15	7	7	—	—	—	—	2	2	—	—	—	—
12	2	—	—	2	—	—	4	—	—	—	4	—
											Total trips:	1,042

CONNEAUT HARBOR, OH

	Inbound						Outbound					
Grand Total	295	289	—	3	3	—	293	285	—	4	4	—
FOREIGN												
Total	87	87	—	—	—	—	87	87	—	—	—	—
30	1	1	—	—	—	—	—	—	—	—	—	—
26	3	3	—	—	—	—	49	49	—	—	—	—
25	1	1	—	—	—	—	3	3	—	—	—	—
24	2	2	—	—	—	—	—	—	—	—	—	—
23	29	29	—	—	—	—	1	1	—	—	—	—
22	22	22	—	—	—	—	10	10	—	—	—	—
21	1	1	—	—	—	—	20	20	—	—	—	—
20	—	—	—	—	—	—	1	1	—	—	—	—
16	1	1	—	—	—	—	—	—	—	—	—	—
15	4	4	—	—	—	—	—	—	—	—	—	—
14	23	23	—	—	—	—	3	3	—	—	—	—
DOMESTIC												
Total	208	202	—	3	3	—	206	198	—	4	4	—
29	1	1	—	—	—	—	—	—	—	—	—	—
28	6	6	—	—	—	—	—	—	—	—	—	—
27	59	54	—	2	3	—	4	1	—	3	—	—
26	38	37	—	1	—	—	10	9	—	1	—	—
25	2	2	—	—	—	—	—	—	—	—	—	—
24	1	1	—	—	—	—	17	13	—	—	4	—
23	8	8	—	—	—	—	9	9	—	—	—	—
22	7	7	—	—	—	—	31	31	—	—	—	—
21	—	—	—	—	—	—	16	16	—	—	—	—
20	16	16	—	—	—	—	24	24	—	—	—	—
19	11	11	—	—	—	—	25	25	—	—	—	—
18	33	33	—	—	—	—	45	45	—	—	—	—
17	9	9	—	—	—	—	19	19	—	—	—	—
16	5	5	—	—	—	—	—	—	—	—	—	—
15	12	12	—	—	—	—	6	6	—	—	—	—
											Total trips:	588

ERIE HARBOR, PA

	Inbound						Outbound					
Grand Total	455	448	—	3	4	—	454	446	—	4	4	—
FOREIGN												
Total	10	9	—	—	1	—	9	9	—	—	—	—
26	1	1	—	—	—	—	—	—	—	—	—	—
25	4	4	—	—	—	—	2	2	—	—	—	—
24	3	3	—	—	—	—	1	1	—	—	—	—
23	—	—	—	—	—	—	2	2	—	—	—	—
22	1	1	—	—	—	—	2	2	—	—	—	—
21	—	—	—	—	—	—	1	1	—	—	—	—
19	—	—	—	—	—	—	1	1	—	—	—	—
18	1	—	—	—	1	—	—	—	—	—	—	—
DOMESTIC												
Total	445	439	—	3	3	—	445	437	—	4	4	—
26	5	4	—	1	—	—	1	—	—	1	—	—
25	10	9	—	—	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
ERIE HARBOR, PA - continued												
	Inbound						Outbound					
DOMESTIC												
24	14	12	—	—	2	—	2	—	—	—	2	—
23	10	10	—	—	—	—	2	2	—	—	—	—
22	4	4	—	—	—	—	—	—	—	—	—	—
21	1	1	—	—	—	—	3	3	—	—	—	—
20	2	—	—	2	—	—	7	5	—	2	—	—
19	1	1	—	—	—	—	—	—	—	—	—	—
18	—	—	—	—	—	—	6	4	—	—	2	—
17	1	1	—	—	—	—	7	7	—	—	—	—
16	1	1	—	—	—	—	2	2	—	—	—	—
15	—	—	—	—	—	—	14	14	—	—	—	—
14	343	343	—	—	—	—	—	—	—	—	—	—
12	53	53	—	—	—	—	400	400	—	—	—	—
											Total trips:	909
DUNKIRK HARBOR, NY												
	Inbound						Outbound					
Grand Total												
	35	35	—	—	—	—	35	35	—	—	—	—
DOMESTIC												
Total	35	35	—	—	—	—	35	35	—	—	—	—
19	1	1	—	—	—	—	20	20	—	—	—	—
18	34	34	—	—	—	—	15	15	—	—	—	—
											Total trips:	70
BUFFALO HARBOR, NY												
	Upbound						Downbound					
Grand Total												
	556	554	—	1	1	—	549	544	—	4	—	1
FOREIGN												
Total	59	57	—	1	1	—	50	50	—	—	—	—
27	—	—	—	—	—	—	1	1	—	—	—	—
26	—	—	—	—	—	—	6	6	—	—	—	—
25	2	2	—	—	—	—	9	9	—	—	—	—
23	5	5	—	—	—	—	3	3	—	—	—	—
22	3	3	—	—	—	—	20	20	—	—	—	—
21	5	5	—	—	—	—	5	5	—	—	—	—
20	10	10	—	—	—	—	2	2	—	—	—	—
19	5	5	—	—	—	—	—	—	—	—	—	—
18	4	4	—	—	—	—	—	—	—	—	—	—
17	23	23	—	—	—	—	1	1	—	—	—	—
12	2	—	—	1	1	—	3	3	—	—	—	—
DOMESTIC												
Total	497	497	—	—	—	—	499	494	—	4	—	1
26	—	—	—	—	—	—	3	3	—	—	—	—
25	—	—	—	—	—	—	8	8	—	—	—	—
24	2	2	—	—	—	—	14	14	—	—	—	—
23	3	3	—	—	—	—	21	21	—	—	—	—
22	4	4	—	—	—	—	15	15	—	—	—	—
21	—	—	—	—	—	—	4	4	—	—	—	—
20	9	9	—	—	—	—	5	5	—	—	—	—
19	7	7	—	—	—	—	2	2	—	—	—	—
18	29	29	—	—	—	—	—	—	—	—	—	—
17	23	23	—	—	—	—	—	—	—	—	—	—
16	2	2	—	—	—	—	1	1	—	—	—	—
13	—	—	—	—	—	—	2	2	—	—	—	—
12	418	418	—	—	—	—	424	421	—	2	—	1
											Total trips:	1,105

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
NIAGARA RIVER, NY												
	Upbound						Downbound					
Grand Total	6,178	6,121	4	27	3	23	6,193	6,129	4	34	—	26
FOREIGN												
Total	4	—	1	—	3	—	7	5	1	—	—	1
23	—	—	—	—	—	—	1	1	—	—	—	—
18	—	—	—	—	—	—	1	—	1	—	—	—
15	1	—	1	—	—	—	—	—	—	—	—	—
12	3	—	—	—	3	—	5	4	—	—	—	1
DOMESTIC												
Total	6,174	6,121	3	27	—	23	6,186	6,124	3	34	—	25
22	—	—	—	—	—	—	3	—	3	—	—	—
19	—	—	—	—	—	—	13	9	—	—	—	4
18	18	—	—	18	—	—	37	1	—	21	—	15
17	1	—	—	—	—	1	—	—	—	—	—	—
15	10	10	—	—	—	—	1	—	—	—	—	1
14	1	—	—	1	—	—	—	—	—	1	—	—
13	2	—	—	2	—	—	8	—	—	6	—	2
12	6,142	6,111	3	6	—	22	6,123	6,114	—	6	—	3
Total trips:											12,371	

PORT OF BUFFALO, NY												
	Inbound						Outbound					
Grand Total	6,325	6,259	4	35	—	27	6,310	6,250	4	29	4	23
FOREIGN												
Total	57	55	1	—	—	1	63	57	1	1	4	—
27	1	1	—	—	—	—	—	—	—	—	—	—
26	6	6	—	—	—	—	—	—	—	—	—	—
25	9	9	—	—	—	—	2	2	—	—	—	—
23	4	4	—	—	—	—	5	5	—	—	—	—
22	20	20	—	—	—	—	3	3	—	—	—	—
21	5	5	—	—	—	—	5	5	—	—	—	—
20	2	2	—	—	—	—	10	10	—	—	—	—
19	—	—	—	—	—	—	5	5	—	—	—	—
18	2	1	1	—	—	—	4	4	—	—	—	—
17	—	—	—	—	—	—	23	23	—	—	—	—
15	—	—	—	—	—	—	1	—	1	—	—	—
12	8	7	—	—	—	1	5	—	—	1	4	—
DOMESTIC												
Total	6,268	6,204	3	35	—	26	6,247	6,193	3	28	—	23
26	3	3	—	—	—	—	—	—	—	—	—	—
25	8	8	—	—	—	—	—	—	—	—	—	—
24	15	15	—	—	—	—	1	1	—	—	—	—
23	23	23	—	—	—	—	1	1	—	—	—	—
22	18	15	3	—	—	—	4	4	—	—	—	—
21	4	4	—	—	—	—	—	—	—	—	—	—
20	7	7	—	—	—	—	7	7	—	—	—	—
19	16	12	—	—	—	4	6	6	—	—	—	—
18	38	2	—	21	—	15	46	28	—	18	—	—
17	1	1	—	—	—	—	23	22	—	—	—	1
16	1	1	—	—	—	—	2	2	—	—	—	—
15	1	—	—	—	—	1	10	10	—	—	—	—
14	1	—	—	1	—	—	1	—	—	1	—	—
13	6	—	—	4	—	2	4	—	—	4	—	—
12	6,126	6,113	—	9	—	4	6,142	6,112	3	5	—	22
Total trips:											12,635	

OSWEGO HARBOR, NY												
	Upbound						Downbound					
Grand Total	139	81	40	2	4	12	146	85	40	2	7	12
FOREIGN												
Total	126	80	28	2	4	12	145	84	40	2	7	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
OSWEGO HARBOR, NY - continued												
Upbound						Downbound						
FOREIGN												
26	—	—	—	—	—	—	2	2	—	—	—	—
25	—	—	—	—	—	—	2	2	—	—	—	—
24	1	1	—	—	—	—	13	13	—	—	—	—
23	5	5	—	—	—	—	—	—	—	—	—	—
22	4	4	—	—	—	—	9	9	—	—	—	—
21	3	3	—	—	—	—	19	16	2	—	—	1
20	—	—	—	—	—	—	58	38	15	—	3	2
19	8	6	2	—	—	—	15	1	14	—	—	—
18	10	9	1	—	—	—	15	—	7	—	—	8
17	56	52	4	—	—	—	3	1	1	—	—	1
16	2	—	2	—	—	—	1	—	1	—	—	—
15	2	—	—	—	—	2	—	—	—	—	—	—
14	1	—	—	—	—	1	—	—	—	—	—	—
13	12	—	11	—	—	1	2	—	—	2	—	—
12	22	—	8	2	4	8	6	2	—	—	4	—
DOMESTIC												
Total	13	1	12	—	—	—	1	1	—	—	—	—
12	13	1	12	—	—	—	1	1	—	—	—	—
											Total trips:	285

BARCELONA HARBOR, NY
No Vessel Trips Reported

CAPE VINCENT, NY
No Vessel Trips Reported

GREAT SODUS BAY HARBOR, NY
No Vessel Trips Reported

NIAGARA FALLS, NY
(7 feet and less)

	Inbound				Outbound							
Grand Total	5,624	5,624	—	—	—	—	5,624	5,624	—	—	Total trips:	11,248

OGDENSBURG HARBOR, NY
(22 feet and less)

	Inbound				Outbound							
Grand Total	26	26	—	—	—	—	28	28	—	—	Total trips:	54

PORT CLINTON HARBOR, OH
(5 feet and less)

	Inbound				Outbound							
Grand Total	2,440	2,440	—	—	—	—	2,441	2,441	—	—	Total trips:	4,881

ROCHESTER (CHARLOTTE) HARBOR, NY
(12 feet and less)

	Inbound				Outbound							
Grand Total	51	51	—	—	—	—	51	51	—	—	Total trips:	102

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
SACKETS HARBOR, NY (3 feet and less)												
			Inbound						Outbound			
Grand Total	5	5	---	---	---	---	5	5	---	---	---	---
											Total trips:	10
TONAWANDA HARBOR, NY (12 feet and less)												
			Inbound						Outbound			
Grand Total	5,752	5,752	---	---	---	---	5,646	5,646	---	---	---	---
											Total trips:	11,398
VERMILION HARBOR, OH No Vessel Trips Reported												
WADDINGTON HARBOR, NY 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

ILLINOIS RIVER, IL

			Upbound							Downbound			
Grand Total	32,827	6,126	---	5,534	17,904	3,263	35,803	6,125	---	5,361	21,050	3,267	

DOMESTIC

Total	32,827	6,126	---	5,534	17,904	3,263	35,803	6,125	---	5,361	21,050	3,267
12	23	---	---	2	10	11	146	---	---	2	142	2
11	232	---	---	11	185	36	243	---	---	8	204	31
10	263	1	---	50	173	39	402	2	---	49	331	20
9	8,086	2,394	---	1,457	2,929	1,306	10,367	2,394	---	1,461	6,204	308
8	6,859	---	---	2,411	3,592	856	11,152	---	---	2,370	8,292	490
7	5,221	3,728	---	894	436	163	4,877	3,728	---	802	268	79
6	703	3	---	484	152	64	593	1	---	450	50	92
5	511	---	---	200	263	48	257	---	---	199	44	14
4	112	---	---	---	79	33	190	---	---	1	144	45
3	122	---	---	7	57	58	187	---	---	3	43	141
2	10,273	---	---	18	9,619	636	7,173	---	---	16	5,224	1,933
1	422	---	---	---	409	13	216	---	---	---	104	112
										Total trips:		68,630

CALUMET-SAG CHANNEL, IL

			Upbound							Downbound			
Grand Total	5,314	---	---	1,240	3,350	724	6,862	1,431	---	1,328	3,317	786	

DOMESTIC

Total	5,314	---	---	1,240	3,350	724	6,862	1,431	---	1,328	3,317	786
12	21	---	---	17	2	2	18	---	---	8	10	---
11	194	---	---	161	28	5	170	---	---	159	9	2
10	137	---	---	95	38	4	159	---	---	109	15	35
9	1,706	---	---	264	1,282	160	837	---	---	270	239	328
8	2,023	---	---	482	1,472	69	1,023	---	---	554	355	114
7	360	---	---	141	188	31	227	---	---	145	69	13
6	95	---	---	32	62	1	59	---	---	36	18	5
5	90	---	---	3	69	18	1,257	1,245	---	1	8	3
4	73	---	---	---	37	36	205	186	---	---	19	---
3	72	---	---	---	39	33	64	---	---	---	58	6
2	541	---	---	45	132	364	2,811	---	---	46	2,485	280
1	2	---	---	---	1	1	32	---	---	---	32	---
										Total trips:		12,176

CHICAGO SANITARY AND SHIP CANAL, IL

			Upbound							Downbound			
Grand Total	14,225	1,434	---	3,010	7,403	2,378	12,992	1	---	2,887	7,697	2,407	

DOMESTIC

Total	14,225	1,434	---	3,010	7,403	2,378	12,992	1	---	2,887	7,697	2,407
12	14,225	1,434	---	3,010	7,403	2,378	12,992	1	---	2,887	7,697	2,407
										Total trips:		27,217

ILLINOIS WATERWAY, IL

			Upbound							Downbound			
Grand Total	39,324	7,557	---	8,105	19,420	4,242	38,798	6,125	---	6,455	22,586	3,632	

DOMESTIC

Total	39,324	7,557	---	8,105	19,420	4,242	38,798	6,125	---	6,455	22,586	3,632
12	39,324	7,557	---	8,105	19,420	4,242	38,798	6,125	---	6,455	22,586	3,632
										Total trips:		78,122

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