



PB99-133761

WATERBORNE COMMERCE OF THE UNITED STATES

Calendar Year 1997

Part 3—
Waterways and Harbors
Great Lakes



Department of the Army
Corps of Engineers

Water Resources Support Center

WRSC-WCUS-97-3

REPRODUCED BY: **NTIS**
U.S. Department of Commerce
National Technical Information Service
Springfield, Virginia 22161

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE December 1998	3. REPORT TYPE AND DATES COVERED Annual 1/1/97 - 12/31/97	
4. TITLE AND SUBTITLE Waterborne Commerce of the United States Calendar Year - 1997 Part 3, Waterways and Harbors, Great Lakes			5. FUNDING NUMBERS	
6. AUTHOR(S) Department of the Army Corps of Engineers			8. PERFORMING ORGANIZATION REPORT NUMBER WRSC-WCUS-97-3	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) U.S. Army Corps of Engineers Waterborne Commerce Statistics Center P. O. Box 61280 New Orleans, LA 70161-1280				
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) U.S. Army Corps of Engineers Headquarters Pulaski Building 20 Massachusetts Ave., N.W. Washington, DC 20314-1000			10. SPONSORING/MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES Available from: National Technical Information Services (NTIS) 5285 Port Royal Road Springfield, VA 22161				
12a. DISTRIBUTION/AVAILABILITY STATEMENT Unclassified/Unlimited			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) Waterborne Commerce of the United States (WCUS), Part 3, Calendar Year 1997 is one of a series of five (5) publications containing statistics on the commercial movement of foreign and domestic cargo. WCUS, Part 3, presents detailed data by commodity and traffic for the waterways and harbors of the Great Lakes. The statistics include commodities given in short tons (2000 lbs) and vessel trips for the harbors and waterways.				
14. SUBJECT TERMS Waterborne Commerce Statistics, Domestic Commerce, Water Transportation, Freight Traffic, Commodity Flows.			15. NUMBER OF PAGES 158	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	20. LIMITATION OF ABSTRACT Unlimited	

WATERBORNE COMMERCE OF THE UNITED STATES

Calendar Year 1997

Part 3—
Waterways and Harbors
Great Lakes

PROTECTED UNDER INTERNATIONAL COPYRIGHT
ALL RIGHTS RESERVED.
NATIONAL TECHNICAL INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE

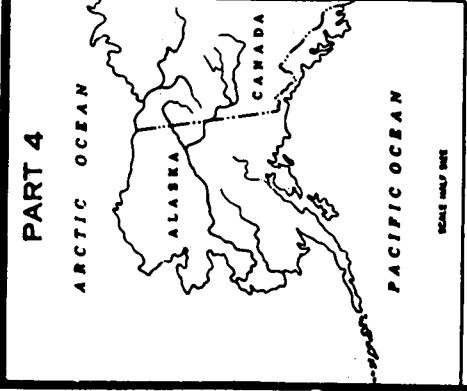
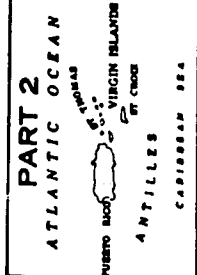
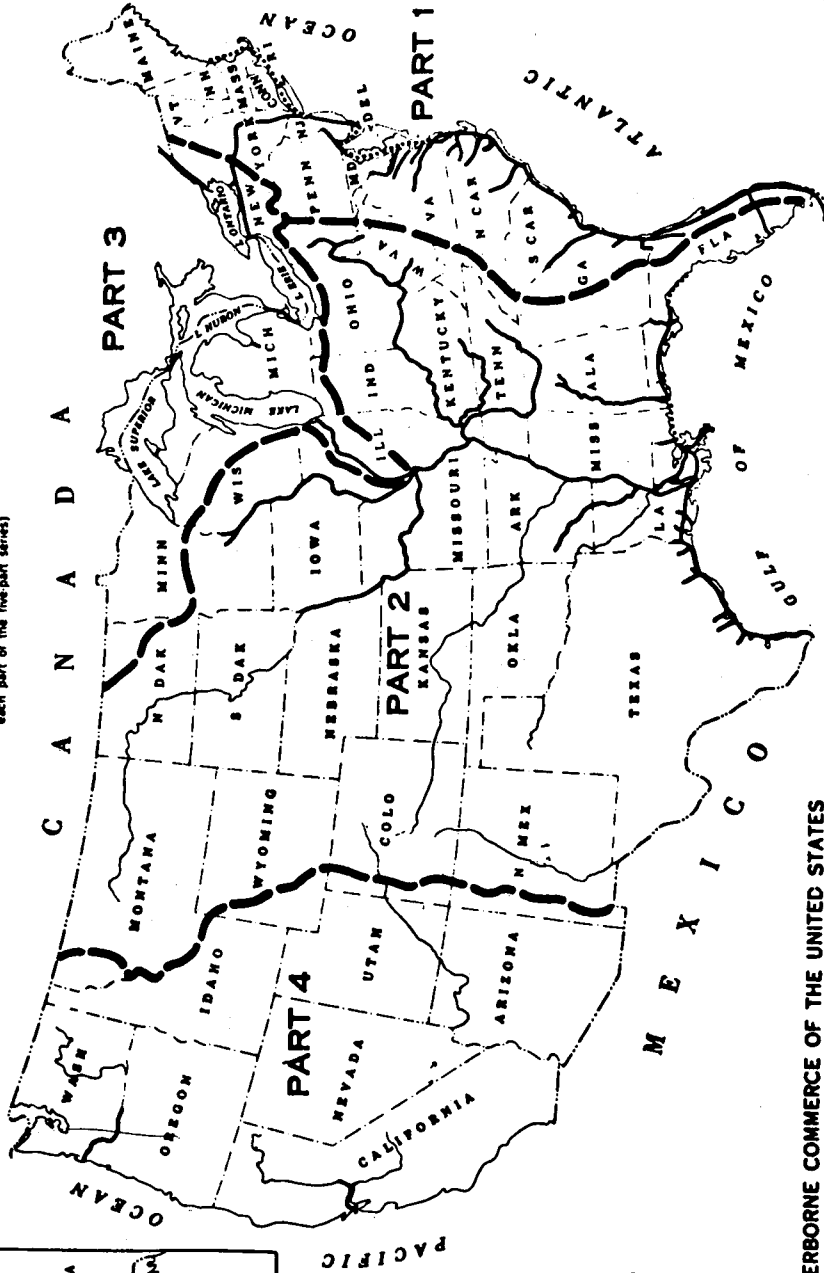


Compiled under the supervision of
the Water Resources Support Center
U.S. Army Corps of Engineers
Fort Belvoir, Virginia

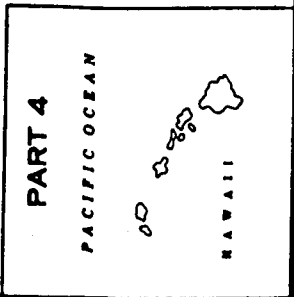
District Engineer, U.S. Army Engineer District, New Orleans,
P.O. Box 60267, New Orleans, Louisiana 70160

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)



INLAND WATERWAYS LEGEND
 ——— PRINCIPAL IMPROVED WATERWAYS
 (IN OPEN WATER)



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

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

CONTENTS

	Page
Introduction	ii
Terminology	v
Commodity Classification List	viii
Table 1 - Ton-Mileage of United States Freight Carried on the Great Lakes by Area	x
Table 2 - Freight Tons of United States Traffic Carried on the Great Lakes by Area	xi
Table 3 - Net Summary of Foreign and Domestic Freight Carried on the Great Lakes, by Type of Traffic and Commodity	xii
Freight Traffic	
Chicago, IL	3
Detroit, MI	17
Buffalo, NY	62
Rock Island, IL	77
Trips and Drafts	
Chicago, IL	89
Detroit, MI	94
Buffalo, NY	121
Rock Island, IL	130
Index	131

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.

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

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

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

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

Traffic Direction

Waterways

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

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

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

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

Ports

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

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

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

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

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

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

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

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

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

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

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

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

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

Ton-miles are rounded to the nearest thousand.

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

Commodity Classification List

Major Grouping

Minor Grouping

Pub Group Pub Name

00 Units

0200 Vehicles
0300 Passengers

10 Coal

1100 Coal
1200 Coal Coke

20 Petroleum & Petroleum Products

21 Crude Petroleum

2100 Crude Petroleum

22-29 Petroleum Products

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

30 Chemicals and Related Products

31 Fertilizers

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

32 Other Chemicals and Related Products

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

Major Grouping

Minor Grouping

Pub Group Pub Name

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

40 Crude Materials, Inedible Except Fuels

41 Forest Products, Wood and Chips

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

42 Pulp and Waste Paper

4225 Pulp & Waste Paper

43 Soil, Sand, Gravel, Rock and Stone

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

44 Iron Ore and Scrap

4410 Iron Ore
4420 Iron & Steel Scrap

45 Marine Shells

4515 Marine Shells

46 Non-Ferrous Ores and Scrap

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

47 Sulphur, Clay and Salt

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

48 Slag

4860 Slag

Commodity Classification List (continued)

<u>Major Grouping</u>	<u>Minor Grouping</u>	<u>Pub Group Pub Name</u>	<u>Major Grouping</u>	<u>Minor Grouping</u>	<u>Pub Group Pub Name</u>
	49	Other Non-Metal. Min. 4900 Non-Metal. Min. NEC		6781	Hay & Fodder
				6782	Animal Feed, Prep.
50	Primary Manufactured Goods		68	Other Agricultural Products	
	51	Paper Products		6811	Meat, Fresh, Frozen
		5110 Newsprint		6817	Meat, Prepared
		5120 Paper & Paperboard		6822	Dairy Products
		5190 Paper Products NEC		6835	Fish, Prepared
	52	Lime, Cement and Glass		6838	Tallow, Animal Oils
		5210 Lime		6839	Animals & Prod. NEC
		5220 Cement & Concrete		6856	Bananas & Plantains
		5240 Glass & Glass Prod.		6857	Fruit & Nuts NEC
		5290 Misc. Mineral Prod.		6858	Fruit Juices
	53	Primary Iron and Steel Products		6861	Sugar
		5312 Pig Iron		6865	Molasses
		5315 Ferro Alloys		6871	Coffee
		5320 I&S Primary Forms		6872	Cocoa Beans
		5330 I&S Plates & Sheets		6885	Alcoholic Beverages
		5360 I&S Bars & Shapes		6887	Groceries
		5370 I&S Pipe & Tube		6888	Water & Ice
		5390 Primary I&S NEC		6889	Food Products NEC
	54	Primary Non-Ferrous Metal Products		6891	Tobacco & Products
		5421 Copper		6893	Cotton
		5422 Aluminum		6894	Natural Fibers NEC
		5429 Smelted Prod. NEC		6899	Farm Products NEC
		5480 Fab. Metal Products	70	All Manufactured Equipment, Machinery and Products	
	55	Primary Wood Products; Veneer		7110	Machinery (Not Elec)
		5540 Primary Wood Prod.		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	80	Waste and Scrap NEC	
	65	Oilseeds		8900	Waste and Scrap NEC
		6521 Peanuts			
		6522 Soybeans	90	Unknown or Not Elsewhere Classified	
		6534 Flaxseed		99	Unknown or Not Elsewhere Clsfd
		6590 Oilseeds NEC		9900	Unknown or NEC
	66	Vegetable Products			
		6653 Vegetable Oils			
		6654 Vegetables & Prod.			
	67	Processed Grain and Animal Feed			
		6746 Wheat Flour			
		6747 Grain Mill Products			

TABLE 1-TON-MILEAGE OF UNITED STATES FREIGHT CARRIED ON THE GREAT LAKES BY AREA, CALENDAR YEAR 1987
(thousand ton-miles)

Area	Area Totals	Foreign						Domestic						Intraport			
		Overseas			Canadian			Coastwise			Lakewise			Internal		In/Out	
		In/Out	Through	Through	In/Out	Through	Through	In/Out	Through	Through	In/Out	Through	Through	In/Out	Through	In/Out	In/Out
DETROIT RIVER, MI	2,138,647	29,552	145,400	83,698	566,865	—	—	—	230,910	1,079,211	2,574	437	—	—	—	—	—
*LAKE ERIE	12,500,018	465,945	1,569,743	3,262,436	3,394,325	—	—	—	3,801,270	4,471	1,552	—	—	—	—	276	—
LAKE HURON	25,579,230	4,452	1,267,181	1,060,679	4,392,869	—	—	—	5,650,844	13,193,721	—	9,484	—	—	—	—	—
**LAKE MICHIGAN	22,107,414	1,179,150	—	3,525,867	—	—	—	—	17,293,969	—	23,959	—	—	—	—	84,469	—
***LAKE ONTARIO	7,634,064	9	3,119,836	81,683	4,422,770	—	—	—	—	9,767	—	—	—	—	—	—	—
LAKE SUPERIOR	27,230,452	916,232	—	3,637,201	546,365	—	—	—	22,130,626	—	0	—	—	—	—	28	—
ST. CLAIR RIVER, MI	2,856,018	994	181,875	5,330	764,396	—	—	—	184,161	1,717,974	—	1,289	—	—	—	—	—
****ST. LAWRENCE RIVER	2,024,164	955	890,244	9,055	1,119,382	—	—	—	4,528	—	—	—	—	—	—	—	—
ST. MARYS RIVER, MI	5,231,964	510	152,112	4,312	921,283	—	—	—	47,539	4,106,207	—	—	—	—	—	—	—
WELLAND CANAL, CANADA	747,744	—	216,544	—	530,315	—	—	—	—	886	—	—	—	—	—	—	—
NET UNITED STATES TRAFFIC ON THE GREAT LAKES	108,049,716	10,140,735	—	28,328,829	—	—	—	—	69,456,083	—	17,464	—	—	—	—	106,604	—

* 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 1997
(thousand short tons)

Area	Area Totals	Overseas			Foreign			Coastwise			Domestic			Intraport	
		In/Out	Through	Total	In/Out	Through	Total	In/Out	Through	Total	In/Out	Through	Total	In/Out	Total
DETROIT RIVER, MI	75,939	1,278	4,690	4,836	18,286	—	11,825	34,813	196	14	—	—	—	—	
*LAKE ERIE	93,036	2,052	5,969	21,106	13,568	—	50,035	17	14	—	—	—	276	—	
LAKE HURON	120,829	15	4,648	4,200	18,725	—	24,759	—	—	—	—	—	33	—	
**LAKE MICHIGAN	66,691	2,260	—	7,516	—	—	49,873	—	3,185	—	—	—	—	3,857	
***LAKE ONTARIO	28,409	0	8,020	776	19,576	—	0	33	—	—	—	—	—	4	
LAKE SUPERIOR	82,715	2,377	—	10,402	3,144	—	66,764	—	0	—	—	—	—	29	
ST. CLAIR RIVER, MI	79,777	27	4,663	496	19,600	—	10,907	44,051	—	—	—	—	—	—	
****ST. LAWRENCE RIVER	18,228	18	8,020	101	10,056	—	33	—	—	—	—	—	—	—	
ST. MARYS RIVER, MI	83,822	11	2,377	270	15,641	—	1,363	64,159	—	—	—	—	—	—	
WELLAND CANAL, CANADA	27,724	—	8,020	—	19,671	—	—	33	—	—	—	—	—	—	
NET UNITED STATES TRAFFIC ON THE GREAT LAKES	188,579	8,038	—	50,204	—	—	122,776	—	2,338	—	—	—	—	5,223	

* 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
1988	168,816	1991	151,051	1994	175,275	1997	188,523
1989	168,902	1992	159,947	1995	177,750		
1990	167,140	1993	159,628	1996	181,773		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign				Domestic		
		Imports		Exports		Lakewise	Internal	Intraport
		Canadian	Overseas	Canadian	Overseas			
Total, all commodities	188,579	19,984	4,548	30,220	3,490	122,776	2,338	5,223
Total coal	40,920	761	—	15,032	29	22,892	439	1,767
1100 coal lignite	39,575	656	—	14,569	1	22,533	70	1,746
1200 coal coke	1,346	105	—	463	28	359	369	21
Total petroleum and petroleum products	5,582	853	5	570	47	2,174	419	1,514
Subtotal crude petroleum	3	—	1	—	—	—	—	3
2100 crude petroleum	3	—	1	—	—	—	—	3
Subtotal petroleum products	5,578	853	4	570	47	2,174	419	1,511
2211 gasoline	680	293	0	12	—	363	0	12
2330 distillate fuel oil	711	15	0	55	—	343	10	288
2340 residual fuel oil	701	178	—	47	0	213	22	240
2350 lube oil & greases	183	10	0	80	0	—	81	11
2410 petro. jelly & waxes	1	—	—	—	1	—	—	—
2429 naphtha & solvents	13	—	—	0	0	—	—	13
2430 asphalt, tar & pitch	1,810	21	4	108	3	1,028	250	396
2540 petroleum coke	1,468	336	0	267	36	226	56	547
2640 liquid natural gas	8	0	—	—	7	1	0	0
2990 petro. products nec	4	—	—	—	—	—	—	4
Total chemicals and related products	1,362	585	72	121	95	131	78	281
Subtotal fertilizers	544	439	35	7	5	0	50	8
3110 nitrogenous fert.	162	69	35	0	—	—	50	8
3120 phosphatic fert.	0	—	—	0	—	—	—	—
3130 potassic fert.	376	369	—	7	—	—	—	—
3190 fert. & mixes nec	6	—	0	0	5	0	—	—
Subtotal other chemicals and related products	818	146	36	114	89	131	29	273
3211 acyclic hydrocarbons	0	—	0	—	0	—	—	—
3212 benzene & toluene	40	—	—	7	0	—	—	33
3219 other hydrocarbons	80	2	6	7	7	—	22	36
3220 alcohols	107	23	0	16	3	—	—	66
3230 carboxylic acids	7	—	2	0	4	—	—	—
3240 nitrogen func. comp.	10	4	1	—	6	—	—	—
3250 organo-inorganic comp.	4	—	0	0	3	—	—	—
3260 organic comp. nec	5	—	0	0	4	—	—	—
3273 ammonia	1	1	—	—	—	—	—	—
3274 sodium hydroxide	75	8	0	62	0	—	6	—
3275 inorg. elem. oxides, & halogen salts	25	22	0	0	3	—	—	—
3276 metallic salts	393	83	23	18	1	131	—	138
3279 inorganic chem. nec	2	—	0	—	—	—	2	—
3281 radioactive material	0	—	0	—	0	—	—	—
3282 pigments & paints	8	4	0	0	3	—	—	—
3283 coloring mat. nec	0	0	0	0	0	—	—	—
3284 medicines	5	—	0	0	5	—	—	—
3285 perfumes & cleansers	16	0	0	0	16	—	—	—
3286 plastics	20	0	2	0	18	—	—	—
3291 pesticides	3	—	0	3	1	—	—	—
3292 starches, gluten, glue	9	0	1	0	8	—	—	—
3297 chemical additives	5	0	1	0	4	—	—	—
3298 wood & resin chem.	0	—	—	—	0	—	—	—
3299 chem. products nec	4	0	0	0	3	—	—	—
Total crude materials, inedible except fuels	121,791	13,894	377	11,830	232	93,447	395	1,616
Subtotal forest products, wood and chips	176	129	1	30	14	2	0	0
4110 rubber & gums	0	—	—	—	0	—	—	—
4150 fuel wood	0	—	—	—	0	—	—	—
4161 wood chips	13	—	—	—	13	0	—	—
4170 wood in the rough	30	—	—	29	0	1	—	—
4189 lumber	132	129	0	1	1	1	0	0
4190 forest products nec	1	—	0	0	1	—	—	—

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES
 BY TYPE OF TRAFFIC AND COMMODITY
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign				Domestic		
		Imports		Exports		Lakewise	Internal	Intraport
		Canadian	Overseas	Canadian	Overseas			
Subtotal pulp and waste paper	34	—	3	0	31	—	—	—
4225 pulp & waste paper	34	—	3	0	31	—	—	—
Subtotal soil, sand, gravel, rock and stone	39,587	2,586	0	3,820	5	31,844	15	1,317
4310 building stone	11	11	—	—	0	—	—	—
4322 limestone	33,523	—	—	3,413	0	30,067	15	28
4323 gypsum	1,104	—	—	48	2	1,054	—	—
4327 phosphate rock	31	—	—	31	—	—	—	—
4331 sand & gravel	4,789	2,575	0	328	3	681	0	1,200
4335 waterway improv. mat	130	—	—	—	—	42	—	88
4338 soil & fill dirt	0	—	—	—	—	0	—	—
Subtotal iron ore and scrap	73,828	6,473	—	7,066	0	59,933	77	279
4410 iron ore	73,406	6,272	—	7,066	—	59,766	32	270
4420 iron & steel scrap	422	201	—	—	0	167	44	8
Subtotal non-ferrous ores and scrap	385	61	297	0	18	—	9	—
4630 copper ore	0	—	—	—	0	—	—	—
4650 aluminum ore	86	39	28	—	9	—	9	—
4680 non-ferrous scrap	216	—	216	0	0	—	—	—
4690 non-ferrous ores nec	84	21	54	—	9	—	—	—
Subtotal sulphur, clay and salt	1,193	788	53	180	162	—	11	—
4782 clay & refrac. mat.	1,193	788	53	180	162	—	11	—
Subtotal slag	1,081	43	0	28	—	728	273	10
4860 slag	1,081	43	0	28	—	728	273	10
Subtotal other non-metal. min.	5,506	3,814	23	707	2	940	10	10
4900 non-metal. min. nec	5,506	3,814	23	707	2	940	10	10
Total primary manufactured goods	12,209	3,200	4,043	339	69	3,629	891	38
Subtotal paper products	12	0	1	3	8	—	—	—
5110 newsprint	2	0	—	2	—	—	—	—
5120 paper & paperboard	8	0	1	1	6	—	—	—
5190 paper products nec	2	—	0	0	2	—	—	—
Subtotal lime, cement and glass	6,442	2,893	5	272	10	3,258	4	0
5220 cement & concrete	6,377	2,843	0	272	—	3,258	4	—
5240 glass & glass prod.	4	0	1	0	3	—	—	—
5290 misc. mineral prod.	62	50	4	0	7	0	0	0
Subtotal primary iron and steel products	5,543	250	3,920	63	30	371	872	37
5312 pig iron	420	238	112	—	0	10	60	—
5315 ferro alloys	22	—	20	—	—	—	3	—
5320 i&s primary forms	1,238	6	778	61	0	—	393	—
5330 i&s plates & sheets	3,426	7	2,619	0	25	360	377	37
5360 i&s bars & shapes	321	0	319	—	0	—	2	—
5370 i&s pipe & tube	24	0	19	1	3	0	—	0
5390 primary i&s nec	91	—	53	—	0	—	38	—
Subtotal primary non-ferrous metal products	206	56	117	1	17	0	15	0
5421 copper	1	—	0	—	0	—	—	—
5422 aluminum	66	56	2	1	8	—	—	—
5429 smelted prod. nec	107	0	106	0	0	—	—	—
5480 fab. metal products	33	0	9	0	9	0	15	0
Subtotal primary wood products	5	—	0	0	4	—	—	—
5540 primary wood prod.	5	—	0	0	4	—	—	—
Total food and farm products	6,492	681	7	2,320	2,900	468	111	5
Subtotal fish	1	—	—	0	0	0	—	—
6134 fish (not shellfish)	1	—	—	0	0	0	—	—
6136 shellfish	0	—	—	0	—	—	—	—
Subtotal grain	4,215	660	0	1,192	1,865	465	33	—
6241 wheat	2,465	125	—	275	1,604	445	16	—
6344 corn	604	—	—	455	131	—	17	—
6442 rice	0	—	0	0	—	—	—	—
6443 barley & rye	934	347	—	457	130	—	—	—
6445 oats	213	189	—	4	0	20	—	—
6447 sorghum grains	0	—	—	—	0	—	—	—
Subtotal oilseeds	2,151	0	—	1,106	964	—	76	5
6521 peanuts	0	—	—	0	—	—	—	—
6522 soybeans	2,096	—	—	1,084	931	—	76	5
6590 oilseeds nec	55	0	—	22	33	—	—	—
Subtotal vegetable products	16	0	1	0	15	—	—	—
6653 vegetable oils	2	—	0	0	2	—	—	—
6654 vegetables & prod.	14	0	0	0	13	—	—	—

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES
 BY TYPE OF TRAFFIC AND COMMODITY
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign				Domestic		
		Imports		Exports		Lakewise	Internal	Intraport
		Canadian	Overseas	Canadian	Overseas			
Subtotal processed grain and animal feed	43	21	0	0	20	0	2	—
6746 wheat flour	0	—	—	—	0	—	—	—
6747 grain mill products	1	—	0	0	1	—	—	—
6781 hay & fodder	0	—	—	—	0	—	—	—
6782 animal feed, prep.	42	21	0	0	19	0	2	—
Subtotal other agricultural products	66	0	6	21	36	2	—	—
6811 meat, fresh, frozen	3	—	0	1	2	—	—	—
6817 meat, prepared	0	—	0	0	0	—	—	—
6822 dairy products	2	0	0	2	0	—	—	—
6835 fish, prepared	0	—	0	0	0	—	—	—
6838 tallow, animal oils	15	—	—	—	15	—	—	—
6839 animals & prod. nec	4	—	0	0	4	—	—	—
6857 fruit & nuts nec	3	0	0	0	3	0	—	—
6858 fruit juices	5	0	0	2	3	—	—	—
6861 sugar	20	—	3	15	0	1	—	—
6871 coffee	1	—	0	1	0	—	—	—
6872 cocoa beans	0	—	0	0	—	—	—	—
6885 alcoholic beverages	3	0	2	0	1	—	—	—
6887 groceries	0	—	—	—	—	0	—	—
6888 water & ice	1	—	0	0	0	—	—	—
6889 food products nec	7	0	0	0	6	0	—	—
6891 tobacco & products	0	—	0	—	0	—	—	—
6893 cotton	0	—	—	—	0	—	—	—
6894 natural fibers nec	0	—	—	—	0	—	—	—
6899 farm products nec	1	—	0	—	1	—	—	—
Total all manufactured equipment, machinery and products	204	7	42	5	118	23	5	2
7110 machinery (not elec)	77	4	27	3	35	1	5	2
7120 electrical machinery	16	1	6	0	9	—	—	0
7210 vehicles & parts	46	2	3	0	41	0	—	0
7220 aircraft & parts	0	—	0	0	0	—	—	—
7230 ships & boats	0	0	0	0	0	—	—	—
7300 ordnance & access.	0	—	0	—	0	—	—	—
7400 manufac. wood prod.	1	—	0	0	1	0	0	0
7500 textile products	5	0	1	1	2	—	—	—
7600 rubber & plastic pr.	17	0	1	0	15	—	—	—
7900 manufac. prod. nec	41	0	4	0	14	22	—	0
Total waste and scrap nec	0	—	—	—	—	0	—	—
8900 waste and scrap nec	0	—	—	—	—	0	—	—
Total unknown or not elsewhere classified	20	3	1	2	0	13	—	—
9900 unknown or nec	20	3	1	2	0	13	—	—

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
1988	480	1991	598	1994	604	1997	473
1989	470	1992	520	1995	496		
1990	490	1993	577	1996	469		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Lakewise	
		Receipts	Shipments
Total, all commodities	473	471	1
Total crude materials, inedible except fuels	292	291	1
Subtotal soil, sand, gravel, rock and stone	292	291	1
4323 gypsum	275	275	—
4335 waterway improv. mat	18	17	1
Total primary manufactured goods	180	180	—
Subtotal lime, cement and glass	180	180	—
5220 cement & concrete	180	180	—
Total all manufactured equipment, machinery and products	0	—	0
7110 machinery (not elec)	0	—	0

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
1988	1,779	1991	1,802	1994	1,944	1997	733
1989	1,709	1992	1,337	1995	867		
1990	2,207	1993	1,764	1996	700		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Internal			
		Inbound	Outbound	Through	
		Upbound	Downbd	Upbound	Downbd
Total, all commodities	733	512	57	109	54
Total coal	2	2	—	—	—
1100 coal lignite	2	2	—	—	—
Total petroleum and petroleum products	34	—	—	16	18
Subtotal petroleum products	34	—	—	16	18
2211 gasoline	2	—	—	2	—
2340 residual fuel oil	8	—	—	—	8
2350 lube oil & greases	1	—	—	1	—
2430 asphalt, tar & pitch	13	—	—	13	—
2540 petroleum coke	11	—	—	—	11
Total chemicals and related products	93	—	—	93	—
Subtotal other chemicals and related products	93	—	—	93	—
3276 metallic salts	93	—	—	93	—
Total crude materials, inedible except fuels	601	508	57	—	36
Subtotal soil, sand, gravel, rock and stone	349	315	—	—	34
4331 sand & gravel	315	315	—	—	—
4335 waterway improv. mat	34	—	—	—	34
Subtotal iron ore and scrap	57	—	57	—	—
4420 iron & steel scrap	57	—	57	—	—
Subtotal slag	1	—	—	—	1
4860 slag	1	—	—	—	1
Subtotal other non-metal. min.	193	193	—	—	—
4900 non-metal. min. nec	193	193	—	—	—
Total primary manufactured goods	3	2	—	—	0
Subtotal lime, cement and glass	2	2	—	—	—
5220 cement & concrete	2	2	—	—	—
Subtotal primary iron and steel products	1	1	—	—	—
5390 primary i&s nec	1	1	—	—	—
Subtotal primary non-ferrous metal products	0	—	—	—	0
5480 fab. metal products	0	—	—	—	0
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)
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Internal			
		Inbound	Outbound	Through	
		Upbound	Downbnd	Upbound	Downbnd
Ton-miles (x1000)	203	146	57	0	0
Tons All Traffic (x1000)	733				
Ton-miles All Traffic (x1000)	203				

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
1988	2,054	1991	2,461	1994	2,844	1997	1,247
1989	2,220	1992	1,853	1995	1,226		
1990	2,857	1993	2,368	1996	1,088		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Internal			
		Inbound	Outbound	Through	
		Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	1,247	482	32	566	166
Total coal	2	—	—	2	—
1100 coal lignite	2	—	—	2	—
Total petroleum and petroleum products	34	—	—	18	16
Subtotal petroleum products	34	—	—	18	16
2211 gasoline	2	—	—	—	2
2340 residual fuel oil	8	—	—	8	—
2350 lube oil & greases	1	—	—	—	1
2430 asphalt, tar & pitch	13	—	—	—	13
2540 petroleum coke	11	—	—	11	—
Total chemicals and related products	93	—	—	—	93
Subtotal other chemicals and related products	93	—	—	—	93
3276 metallic salts	93	—	—	—	93
Total crude materials, inedible except fuels	1,112	479	32	544	57
Subtotal soil, sand, gravel, rock and stone	829	479	—	349	—
4331 sand & gravel	794	479	—	315	—
4335 waterway improv. mat	34	—	—	34	—
Subtotal iron ore and scrap	89	—	32	—	57
4420 iron & steel scrap	89	—	32	—	57
Subtotal slag	1	—	—	1	—
4860 slag	1	—	—	1	—
Subtotal other non-metal. min.	193	—	—	193	—
4900 non-metal. min. nec	193	—	—	193	—
Total primary manufactured goods	6	3	—	3	—
Subtotal lime, cement and glass	2	—	—	2	—
5220 cement & concrete	2	—	—	2	—
Subtotal primary iron and steel products	4	3	—	1	—
5390 primary i&s nec	4	3	—	1	—
Subtotal primary non-ferrous metal products	0	—	—	0	—
5480 fab. metal products	0	—	—	0	—
Total all manufactured equipment, machinery and products	1	—	—	—	1
7110 machinery (not elec)	1	—	—	—	1
Ton-miles (x1000)	4,135	472	0	2,832	831
Tons All Traffic (x1000)	1,247				
Ton-miles All Traffic (x1000)	4,135				

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
1988	1,261	1991	1,165	1994	2,068	1997	1,845
1989	1,548	1992	1,329	1995	1,913		
1990	1,304	1993	1,489	1996	2,327		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			Internal	
		Imports	Exports	Imports	Total	Lakewise		Inbound Upbound	Outbound Downbnd
					Receipts	Shipments			
Total, all commodities	1,845	78	1	28	1,738	623	9	809	298
Total coal	3	—	—	—	3	—	—	1	2
1100 coal lignite	2	—	—	—	2	—	—	—	2
1200 coal coke	1	—	—	—	1	—	—	1	—
Total petroleum and petroleum products	21	—	—	10	11	2	7	—	1
Subtotal petroleum products	21	—	—	10	11	2	7	—	1
2330 distillate fuel oil	1	—	—	—	1	1	—	—	—
2340 residual fuel oil	18	—	—	10	8	1	7	—	—
2429 naphtha & solvents	1	—	—	—	1	—	—	—	1
Total chemicals and related products	309	7	—	6	296	—	—	167	129
Subtotal fertilizers	6	—	—	—	6	—	—	6	—
3110 nitrogenous fert.	6	—	—	—	6	—	—	6	—
Subtotal other chemicals and related products	304	7	—	6	290	—	—	161	129
3212 benzene & toluene	52	—	—	—	52	—	—	1	50
3219 other hydrocarbons	22	6	—	—	16	—	—	9	7
3220 alcohols	85	—	—	6	79	—	—	12	67
3230 carboxylic acids	1	1	—	—	—	—	—	—	—
3240 nitrogen func. comp.	1	—	—	—	1	—	—	1	—
3260 organic comp. nec	12	—	—	—	12	—	—	12	—
3272 sulphuric acid	4	—	—	—	4	—	—	4	—
3274 sodium hydroxide	122	—	—	—	122	—	—	122	—
3276 metallic salts	1	—	—	—	1	—	—	1	—
3299 chem. products nec	4	—	—	—	4	—	—	—	4
Total crude materials, inedible except fuels	177	0	—	6	170	17	—	22	131
Subtotal soil, sand, gravel, rock and stone	28	—	—	—	28	17	—	11	—
4322 limestone	19	—	—	—	19	17	—	2	—
4331 sand & gravel	9	—	—	—	9	—	—	9	—
Subtotal iron ore and scrap	137	—	—	6	131	—	—	—	131
4420 iron & steel scrap	137	—	—	6	131	—	—	—	131
Subtotal non-ferrous ores and scrap	8	0	—	—	8	—	—	8	—
4670 manganese ore	8	—	—	—	8	—	—	8	—
4680 non-ferrous scrap	0	0	—	—	—	—	—	—	—
Subtotal other non-metal. min.	3	—	—	—	3	—	—	3	—
4900 non-metal. min. nec	3	—	—	—	3	—	—	3	—

LAKE CALUMET, IL (INCLUDED IN PORT OF CHICAGO)
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic				
		Imports	Exports	Imports	Total	Lakewise		Internal	
						Receipts	Shipments	Inbound Upbound	Outbound Downbnd
Total primary manufactured goods	1,282	70	---	6	1,206	604	2	581	19
Subtotal lime, cement and glass	310	---	---	---	310	310	---	---	---
5220 cement & concrete	310	---	---	---	310	310	---	---	---
Subtotal primary iron and steel products	924	70	---	6	848	293	2	533	19
5312 pig iron	103	---	---	6	97	3	2	91	2
5315 ferro alloys	26	---	---	---	26	---	---	25	2
5320 i&s primary forms	9	7	---	---	2	---	---	1	2
5330 i&s plates & sheets	664	63	---	---	601	291	---	297	13
5360 i&s bars & shapes	21	---	---	---	21	---	---	21	---
5390 primary i&s nec	100	---	---	---	100	---	---	99	1
Subtotal primary non-ferrous metal products	48	0	---	---	48	---	---	48	---
5429 smelted prod. nec	7	0	---	---	7	---	---	7	---
5480 fab. metal products	41	---	---	---	41	---	---	41	---
Total food and farm products	51	---	1	---	50	---	---	35	15
Subtotal grain	2	---	---	---	2	---	---	---	2
6344 corn	2	---	---	---	2	---	---	---	2
Subtotal oilseeds	15	---	---	---	15	---	---	1	14
6522 soybeans	15	---	---	---	15	---	---	1	14
Subtotal other agricultural products	34	---	1	---	34	---	---	34	---
6838 tallow, animal oils	1	---	1	---	---	---	---	---	---
6861 sugar	34	---	---	---	34	---	---	34	---
Total all manufactured equipment, machinery and products	1	---	---	---	1	---	---	1	---
7110 machinery (not elec)	1	---	---	---	1	---	---	1	---
Ton-miles (x1000)	1,609	78	1	28	1,503	619	0	660	224
Tons All Traffic (x1000)				1,845					
Ton-miles All Traffic (x1000)				1,609					

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
1988	11,889	1991	10,589	1994	18,554	1997	16,552
1989	12,973	1992	11,765	1995	18,225		
1990	11,689	1993	13,706	1996	20,167		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through Upbound	Through Downbnd	Imports	Exports	Through Downbnd
Total, all commodities	3,863	1,068	283	1	78	2,097	308	28
Total coal	284	---	28	---	---	200	55	---
1100 coal lignite	198	---	---	---	---	172	26	---
1200 coal coke	86	---	28	---	---	28	30	---

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through		Imports	Exports	Through
				Upbound	Downbnd			Downbnd
Total petroleum and petroleum products	445	0	0	—	—	237	198	10
Subtotal petroleum products	445	0	0	—	—	237	198	10
2211 gasoline	0	0	—	—	—	—	—	—
2340 residual fuel oil	39	—	0	—	—	26	3	10
2350 lube oil & greases	0	0	0	—	—	—	—	—
2430 asphalt, tar & pitch	9	—	—	—	—	9	—	—
2540 petroleum coke	397	0	—	—	—	203	195	—
Total chemicals and related products	109	1	14	—	7	66	14	6
Subtotal fertilizers	25	—	0	—	—	24	—	—
3130 potassic fert.	24	—	—	—	—	24	—	—
3190 fert. & mixes nec	0	—	0	—	—	—	—	—
Subtotal other chemicals and related products	84	1	14	—	7	42	14	6
3219 other hydrocarbons	8	—	0	—	6	2	—	—
3220 alcohols	25	0	2	—	—	16	—	6
3230 carboxylic acids	2	1	0	—	1	—	—	—
3240 nitrogen func. comp.	0	0	0	—	—	—	—	—
3250 organo-inorganic comp.	0	0	0	—	—	—	—	—
3260 organic comp. nec	1	0	1	—	—	—	—	—
3274 sodium hydroxide	22	—	—	—	—	8	14	—
3275 inorg. elem., oxides, & halogen salts	17	0	1	—	—	16	—	—
3276 metallic salts	0	0	0	—	—	—	—	—
3279 inorganic chem. nec	0	0	—	—	—	—	—	—
3281 radioactive material	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	2	0	2	—	—	—	—	—
3291 pesticides	0	—	0	—	—	—	—	—
3292 starches, gluten, glue	7	0	6	—	—	—	—	—
3297 chemical additives	0	—	0	—	—	—	—	—
3298 wood & resin chem.	0	—	0	—	—	—	—	—
3299 chem. products nec	0	0	0	—	—	—	—	—
Total crude materials, inedible except fuels	1,720	28	83	—	0	1,562	40	6
Subtotal forest products, wood and chips	0	0	0	—	—	—	—	—
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	11	0	1	—	—	0	10	—
4323 gypsum	1	—	1	—	—	—	—	—
4327 phosphate rock	10	—	—	—	—	—	10	—
4331 sand & gravel	0	0	0	—	—	0	—	—
Subtotal iron ore and scrap	1,000	—	0	—	—	994	—	6
4410 iron ore	898	—	—	—	—	898	—	—
4420 iron & steel scrap	102	—	0	—	—	96	—	6
Subtotal non-ferrous ores and scrap	36	28	8	—	0	—	—	—
4650 aluminum ore	28	28	0	—	—	—	—	—
4680 non-ferrous scrap	0	—	—	—	0	—	—	—
4690 non-ferrous ores nec	8	0	8	—	—	—	—	—
Subtotal sulphur, clay and salt	193	0	74	—	—	90	30	—
4782 clay & refrac. mat.	193	0	74	—	—	90	30	—
Subtotal slag	29	0	—	—	—	28	—	—
4860 slag	29	0	—	—	—	28	—	—
Subtotal other non-metal. min.	450	0	0	—	—	449	—	—
4900 non-metal. min. nec	450	0	0	—	—	449	—	—
Total primary manufactured goods	1,145	1,029	9	—	70	32	—	6
Subtotal paper products	0	0	0	—	—	—	—	—
5120 paper & paperboard	0	0	0	—	—	—	—	—
5190 paper products nec	0	0	0	—	—	—	—	—
Subtotal lime, cement and glass	28	2	1	—	—	26	—	—
5240 glass & glass prod.	0	0	0	—	—	—	—	—
5290 misc. mineral prod.	28	1	0	—	—	26	—	—
Subtotal primary iron and steel products	1,058	976	0	—	70	6	—	6
5312 pig iron	12	—	0	—	—	6	—	6
5315 ferro alloys	2	2	—	—	—	—	—	—
5320 i&s primary forms	234	227	0	—	7	—	—	—
5330 i&s plates & sheets	736	673	0	—	63	—	—	—
5360 i&s bars & shapes	47	47	0	—	—	—	—	—
5370 i&s pipe & tube	10	10	0	—	—	—	—	—
5390 primary i&s nec	17	17	0	—	—	—	—	—
Subtotal primary non-ferrous metal products	58	51	7	—	0	—	—	—
5421 copper	0	0	0	—	—	—	—	—

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through Upbound	Through Downbnd	Imports	Exports	Through Downbnd
5422 aluminum	7	0	7	—	—	—	—	—
5429 smelted prod. nec	46	46	0	—	0	—	—	—
5480 fab. metal products	5	4	1	—	—	—	—	—
Subtotal primary wood products	0	—	0	—	—	—	—	—
5540 primary wood prod.	0	—	0	—	—	—	—	—
Total food and farm products	141	1	140	1	—	0	0	—
Subtotal grain	21	0	21	—	—	—	—	—
6344 corn	21	—	21	—	—	—	—	—
6442 rice	0	0	—	—	—	—	—	—
Subtotal oilseeds	118	—	118	—	—	—	—	—
6522 soybeans	118	—	118	—	—	—	—	—
Subtotal vegetable products	0	0	0	—	—	—	—	—
6653 vegetable oils	0	0	—	—	—	—	—	—
6654 vegetables & prod.	0	0	0	—	—	—	—	—
Subtotal processed grain and animal feed	0	0	0	—	0	—	—	—
6747 grain mill products	0	0	0	—	—	—	—	—
6782 animal feed, prep.	0	—	0	—	0	—	—	—
Subtotal other agricultural products	1	1	0	1	—	0	—	—
6811 meat, fresh, frozen	0	—	—	—	—	0	—	—
6822 dairy products	0	—	0	—	—	—	—	—
6835 fish, prepared	0	0	—	—	—	—	—	—
6838 tallow, animal oils	1	—	0	1	—	—	—	—
6839 animals & prod. nec	0	0	0	—	—	—	—	—
6857 fruit & nuts nec	0	—	0	—	—	—	—	—
6858 fruit juices	0	0	—	—	—	—	—	—
6861 sugar	0	—	0	—	—	—	—	—
6871 coffee	0	—	0	—	—	—	—	—
6872 cocoa beans	0	0	—	—	—	—	—	—
6885 alcoholic beverages	0	0	—	—	—	—	—	—
6889 food products nec	0	0	0	—	—	—	—	—
6893 cotton	0	—	0	—	—	—	—	—
6899 farm products nec	0	0	—	—	—	—	—	—
Total all manufactured equipment, machinery and products	19	9	10	—	—	1	0	—
7110 machinery (not elec)	9	4	4	—	—	1	—	—
7120 electrical machinery	4	1	2	—	—	0	0	—
7210 vehicles & parts	1	1	0	—	—	0	—	—
7220 aircraft & parts	0	0	—	—	—	—	—	—
7230 ships & boats	0	—	0	—	—	—	—	—
7300 ordnance & access.	0	0	0	—	—	—	—	—
7400 manufac. wood prod.	0	0	0	—	—	—	—	—
7500 textile products	0	0	0	—	—	—	—	—
7600 rubber & plastic pr.	1	0	0	—	—	—	—	—
7900 manufac. prod. nec	4	1	2	—	—	0	—	—
Total unknown or not elsewhere classified	0	0	0	—	—	0	—	—
9900 unknown or nec	0	0	0	—	—	0	—	—
Ton-miles (x1000) Foreign & Canadian	4,396	1,068	283	3	467	2,097	308	168

Commodity	Total	Lakewise			
		Receipts	Shipments	Through Upbound	Through Downbnd
Total, all commodities	4,367	2,137	1,598	9	623
Total coal	1,442	—	1,442	—	—
1100 coal lignite	1,213	—	1,213	—	—
1200 coal coke	230	—	230	—	—
Total petroleum and petroleum products	153	7	137	7	2
Subtotal petroleum products	153	7	137	7	2
2330 distillate fuel oil	2	1	—	—	1
2340 residual fuel oil	23	6	9	7	1
2430 asphalt, tar & pitch	18	—	18	—	—
2540 petroleum coke	111	—	111	—	—
Total crude materials, inedible except fuels	1,923	1,906	—	—	17
Subtotal soil, sand, gravel, rock and stone	1,046	1,029	—	—	17
4322 limestone	1,044	1,027	—	—	17
4335 waterway improv. mat	2	2	—	—	—
Subtotal iron ore and scrap	877	877	—	—	—
4410 iron ore	877	877	—	—	—
Total primary manufactured goods	815	191	18	2	604
Subtotal lime, cement and glass	513	190	13	—	310
5220 cement & concrete	513	190	13	—	310
Subtotal primary iron and steel products	302	2	6	2	293
5312 pig iron	10	—	6	2	3

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Total	Lakewise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
5330 i&s plates & sheets	292	2	—	—	291
Total food and farm products	33	33	—	—	—
Subtotal grain	33	33	—	—	—
6241 wheat	33	33	—	—	—
Total all manufactured equipment, machinery and products	0	—	0	—	—
7110 machinery (not elec)	0	—	0	—	—
Ton-miles (x1000)	18,771	7,043	7,966	41	3,721
Lakewise					

Commodity	Total	Internal				
		Inbound Upbound	Outbound Downbnd	Through		Intra Upbound
				Upbound	Downbnd	
Total, all commodities	8,322	2,877	2,337	1,690	1,399	20
Total coal	3,355	1,132	1,769	428	26	—
1100 coal lignite	2,839	1,022	1,746	70	—	—
1200 coal coke	516	110	23	357	26	—
Total petroleum and petroleum products	1,763	534	225	427	576	2
Subtotal petroleum products	1,763	534	225	427	576	2
2211 gasoline	10	—	—	—	10	—
2330 distillate fuel oil	116	—	2	48	67	—
2340 residual fuel oil	165	15	24	106	20	—
2350 lube oil & greases	84	—	—	24	59	—
2429 naphtha & solvents	6	—	—	6	—	—
2430 asphalt, tar & pitch	428	22	40	65	302	—
2540 petroleum coke	950	495	161	175	118	2
2990 petro. products nec	4	—	—	4	—	—
Total chemicals and related products	199	50	29	87	34	—
Subtotal fertilizers	80	22	—	58	—	—
3110 nitrogenous fert.	75	18	—	58	—	—
3120 phosphatic fert.	4	4	—	—	—	—
Subtotal other chemicals and related products	119	28	29	29	34	—
3219 other hydrocarbons	26	—	3	22	2	—
3220 alcohols	17	—	17	—	—	—
3274 sodium hydroxide	6	—	—	6	—	—
3275 inorg. elem. oxides, & halogen salts	2	2	—	—	—	—
3276 metallic salts	44	3	9	—	32	—
3279 inorganic chem. nec	25	23	—	2	—	—
Total crude materials, inedible except fuels	1,235	550	199	226	242	17
Subtotal forest products, wood and chips	1	1	—	—	—	—
4161 wood chips	1	1	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	244	65	82	15	65	17
4322 limestone	17	2	—	15	—	—
4331 sand & gravel	143	62	80	—	—	—
4335 waterway improv. mat	85	1	2	—	65	17
Subtotal iron ore and scrap	200	9	114	48	29	—
4410 iron ore	105	9	64	32	—	—
4420 iron & steel scrap	95	—	50	16	29	—
Subtotal non-ferrous ores and scrap	31	22	—	9	—	—
4650 aluminum ore	9	—	—	9	—	—
4670 manganese ore	17	17	—	—	—	—
4690 non-ferrous ores nec	4	4	—	—	—	—
Subtotal sulphur, clay and salt	15	4	—	8	3	—
4782 clay & refrac. mat.	15	4	—	8	3	—
Subtotal slag	284	1	1	136	145	—
4860 slag	284	1	1	136	145	—
Subtotal other non-metal. min.	459	447	2	10	—	—
4900 non-metal. min. nec	459	447	2	10	—	—
Total primary manufactured goods	1,551	577	46	518	410	—
Subtotal lime, cement and glass	18	14	—	3	2	—
5220 cement & concrete	18	14	—	3	2	—
Subtotal primary iron and steel products	1,461	513	39	507	403	—
5312 pig iron	181	119	1	60	—	—
5315 ferro alloys	164	160	1	1	1	—
5320 i&s primary forms	448	54	—	393	—	—
5330 i&s plates & sheets	531	113	4	29	385	—
5360 i&s bars & shapes	39	4	33	2	—	—
5370 i&s pipe & tube	1	1	—	—	—	—
5390 primary i&s nec	99	61	—	22	16	—
Subtotal primary non-ferrous metal products	71	49	7	8	6	—
5422 aluminum	3	3	—	—	—	—
5429 smelted prod. nec	11	11	—	—	—	—
5480 fab. metal products	57	35	7	8	6	—
Total food and farm products	214	34	69	—	111	—
Subtotal grain	69	—	36	—	33	—
6241 wheat	44	—	28	—	16	—
6344 corn	25	—	8	—	17	—
Subtotal oilseeds	140	31	33	—	76	—
6522 soybeans	140	31	33	—	76	—

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Internal					
		Inbound	Outbound	Through	Intra		
		Upbound	Downbnd	Upbound	Downbnd	Upbound	
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	6	—	—	4	1	—	1
7110 machinery (not elec)	6	—	—	4	1	—	1
Ton-miles (x1000)	27,447	6,708	2,596	10,138	8,004	—	0
Internal							
Tons All Traffic (x1000)	16,552						
Ton-miles All Traffic (x1000)	50,614						

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
1988	22,894	1991	21,767	1994	29,422	1997	24,868
1989	23,446	1992	22,154	1995	25,329		
1990	22,541	1993	25,048	1996	27,886		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
Total, all commodities	3,863	1,146	284	2,125	308
Total coal	284	—	28	200	55
1100 coal lignite	198	—	—	172	26
1200 coal coke	86	—	28	28	30
Total petroleum and petroleum products	445	0	0	247	198
Subtotal petroleum products	445	0	0	247	198
2211 gasoline	0	0	—	—	—
2340 residual fuel oil	39	—	0	36	3
2350 lube oil & greases	0	0	0	—	—
2430 asphalt, tar & pitch	9	—	—	9	—
2540 petroleum coke	397	0	—	203	195
Total chemicals and related products	109	9	14	72	14
Subtotal fertilizers	25	—	0	24	—
3130 potassic fert.	24	—	—	24	—
3190 fert. & mixes nec	0	—	0	—	—
Subtotal other chemicals and related products	84	9	14	48	14
3219 other hydrocarbons	8	6	0	2	—
3220 alcohols	25	0	2	23	—
3230 carboxylic acids	2	2	0	—	—
3240 nitrogen func. comp.	0	0	0	—	—
3250 organo-inorganic comp.	0	0	0	—	—
3260 organic comp. nec	1	0	1	—	—
3274 sodium hydroxide	22	—	—	8	14
3275 inorg. elem., oxides, & halogen salts	17	0	1	16	—
3276 metallic salts	0	0	0	—	—
3279 inorganic chem. nec	0	0	—	—	—
3281 radioactive material	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	2	0	2	—	—
3291 pesticides	0	—	0	—	—
3292 starches, gluten, glue	7	0	6	—	—
3297 chemical additives	0	—	0	—	—
3298 wood & resin chem.	0	—	0	—	—
3299 chem. products nec	0	0	0	—	—
Total crude materials, inedible except fuels	1,720	29	83	1,568	40
Subtotal forest products, wood and chips	0	0	0	—	—
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	11	0	1	0	10
4323 gypsum	1	—	1	—	—
4327 phosphate rock	10	—	—	—	10
4331 sand & gravel	0	0	0	0	—

PORT OF CHICAGO, IL
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
Subtotal iron ore and scrap	1,000	—	0	1,000	—
4410 iron ore	898	—	—	898	—
4420 iron & steel scrap	102	—	0	102	—
Subtotal non-ferrous ores and scrap	36	28	8	—	—
4650 aluminum ore	28	28	0	—	—
4680 non-ferrous scrap	0	0	—	—	—
4690 non-ferrous ores nec	8	0	8	—	—
Subtotal sulphur, clay and salt	193	0	74	90	30
4782 clay & refrac. mat.	193	0	74	90	30
Subtotal slag	29	0	—	28	—
4860 slag	29	0	—	28	—
Subtotal other non-metal. min.	450	0	0	449	—
4900 non-metal. min. nec	450	0	0	449	—
Total primary manufactured goods	1,145	1,099	9	37	—
Subtotal paper products	0	0	0	—	—
5120 paper & paperboard	0	0	0	—	—
5190 paper products nec	0	0	0	—	—
Subtotal lime, cement and glass	28	2	1	26	—
5240 glass & glass prod.	0	0	0	—	—
5290 misc. mineral prod.	28	1	0	26	—
Subtotal primary iron and steel products	1,058	1,047	0	12	—
5312 pig iron	12	—	0	12	—
5315 ferro alloys	2	2	—	—	—
5320 i&s primary forms	234	234	0	—	—
5330 i&s plates & sheets	736	736	0	—	—
5360 i&s bars & shapes	47	47	0	—	—
5370 i&s pipe & tube	10	10	0	—	—
5390 primary i&s nec	17	17	0	—	—
Subtotal primary non-ferrous metal products	58	51	7	—	—
5421 copper	0	0	0	—	—
5422 aluminum	7	0	7	—	—
5429 smelted prod. nec	46	46	0	—	—
5480 fab. metal products	5	4	1	—	—
Subtotal primary wood products	0	—	0	—	—
5540 primary wood prod.	0	—	0	—	—
Total food and farm products	141	1	140	0	0
Subtotal grain	21	0	21	—	—
6344 corn	21	—	21	—	—
6442 rice	0	0	—	—	—
Subtotal oilseeds	118	—	118	—	—
6522 soybeans	118	—	118	—	—
Subtotal vegetable products	0	0	0	—	—
6653 vegetable oils	0	0	—	—	—
6654 vegetables & prod.	0	0	0	—	—
Subtotal processed grain and animal feed	0	0	0	0	—
6747 grain mill products	0	0	0	—	—
6782 animal feed, prep.	0	—	0	0	—
Subtotal other agricultural products	1	1	1	—	0
6811 meat, fresh, frozen	0	—	—	—	0
6822 dairy products	0	—	0	—	—
6835 fish, prepared	0	0	—	—	—
6838 tallow, animal oils	1	—	1	—	—
6839 animals & prod. nec	0	0	0	—	—
6857 fruit & nuts nec	0	—	0	—	—
6858 fruit juices	0	0	0	—	—
6861 sugar	0	—	0	—	—
6871 coffee	0	—	0	—	—
6872 cocoa beans	0	0	—	—	—
6885 alcoholic beverages	0	0	—	—	—
6889 food products nec	0	0	0	—	—
6893 cotton	0	—	0	—	—
6899 farm products nec	0	0	—	—	—
Total all manufactured equipment, machinery and products	19	9	10	1	0
7110 machinery (not elec)	9	4	4	1	—
7120 electrical machinery	4	1	2	0	0
7210 vehicles & parts	1	1	0	0	—
7220 aircraft & parts	0	0	—	—	—
7230 ships & boats	0	—	0	—	—
7300 ordnance & access.	0	0	0	—	—
7400 manufac. wood prod.	0	0	0	—	—
7500 textile products	0	0	0	—	—
7600 rubber & plastic pr.	1	0	0	—	—
7900 manufac. prod. nec	4	1	2	0	—
Total unknown or not elsewhere classified	0	0	0	0	—
9900 unknown or nec	0	0	0	0	—

Commodity	Total	Domestic				
		Lakewise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	21,005	2,760	1,607	9,511	3,608	3,518
Total coal	4,563	—	1,442	1,258	110	1,752
1100 coal lignite	4,093	—	1,213	1,133	2	1,746
1200 coal coke	470	—	230	125	109	6

PORT OF CHICAGO, IL
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Lakewise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total petroleum and petroleum products	4,104	9	144	1,669	1,610	671
Subtotal crude petroleum	10	—	—	—	7	3
2100 crude petroleum	10	—	—	—	7	3
Subtotal petroleum products	4,094	9	144	1,669	1,603	669
2211 gasoline	17	—	—	—	17	—
2330 distillate fuel oil	699	2	—	241	290	166
2340 residual fuel oil	723	7	16	185	426	89
2350 lube oil & greases	163	—	—	138	17	8
2429 naphtha & solvents	69	—	—	28	34	7
2430 asphalt, tar & pitch	842	—	18	560	165	99
2540 petroleum coke	1,566	—	111	517	639	299
2990 petro. products nec	14	—	—	—	14	—
Total chemicals and related products	1,843	—	—	1,444	252	147
Subtotal fertilizers	33	—	—	33	—	—
3110 nitrogenous fert.	25	—	—	25	—	—
3120 phosphatic fert.	6	—	—	6	—	—
3190 fert. & mixes nec	2	—	—	2	—	—
Subtotal other chemicals and related products	1,810	—	—	1,412	252	147
3212 benzene & toluene	131	—	—	4	94	33
3219 other hydrocarbons	136	—	—	49	52	35
3220 alcohols	670	—	—	542	62	66
3230 carboxylic acids	2	—	—	2	—	—
3240 nitrogen func. comp.	1	—	—	1	—	—
3260 organic comp. nec	37	—	—	37	—	—
3272 sulphuric acid	4	—	—	4	—	—
3274 sodium hydroxide	547	—	—	547	—	—
3275 inorg. elem., oxides, & halogen salts	68	—	—	68	—	—
3276 metallic salts	185	—	—	132	40	13
3279 inorganic chem. nec	23	—	—	23	—	—
3297 chemical additives	2	—	—	2	—	—
3299 chem. products nec	4	—	—	—	4	—
Total crude materials, inedible except fuels	6,235	1,923	—	2,431	939	942
Subtotal forest products, wood and chips	108	—	—	108	—	—
4161 wood chips	105	—	—	105	—	—
4190 forest products nec	3	—	—	3	—	—
Subtotal soil, sand, gravel, rock and stone	3,284	1,046	—	938	366	932
4322 limestone	1,059	1,044	—	15	—	—
4331 sand & gravel	2,137	—	—	857	365	915
4335 waterway improv. mat	87	2	—	66	2	17
Subtotal iron ore and scrap	1,463	877	—	14	565	8
4410 iron ore	950	877	—	9	64	—
4420 iron & steel scrap	514	—	—	4	501	8
Subtotal non-ferrous ores and scrap	31	—	—	31	—	—
4670 manganese ore	27	—	—	27	—	—
4690 non-ferrous ores nec	4	—	—	4	—	—
Subtotal sulphur, clay and salt	8	—	—	8	—	—
4782 clay & refrac. mat.	8	—	—	8	—	—
Subtotal slag	9	—	—	6	3	—
4860 slag	9	—	—	6	3	—
Subtotal other non-metal. min.	1,332	—	—	1,325	4	2
4900 non-metal. min. nec	1,332	—	—	1,325	4	2
Total primary manufactured goods	3,444	795	21	2,563	66	—
Subtotal lime, cement and glass	1,465	500	13	951	1	—
5210 lime	1	—	—	1	—	—
5220 cement & concrete	1,462	500	13	948	1	—
5290 misc. mineral prod.	2	—	—	2	—	—
Subtotal primary iron and steel products	1,788	295	8	1,428	57	—
5312 pig iron	264	3	8	251	3	—
5315 ferro alloys	188	—	—	186	2	—
5320 i&s primary forms	75	—	—	73	2	—
5330 i&s plates & sheets	881	292	—	572	17	—
5360 i&s bars & shapes	145	—	—	112	33	—
5370 i&s pipe & tube	5	—	—	5	—	—
5390 primary i&s nec	230	—	—	229	1	—
Subtotal primary non-ferrous metal products	191	—	—	184	7	—
5422 aluminum	3	—	—	3	—	—
5429 smelted prod. nec	24	—	—	24	—	—
5480 fab. metal products	164	—	—	157	7	—
Total food and farm products	780	33	—	120	622	5
Subtotal grain	411	33	—	1	377	—
6241 wheat	105	33	—	1	71	—
6344 corn	307	—	—	—	307	—
Subtotal oilseeds	266	—	—	29	232	5
6522 soybeans	266	—	—	29	232	5
Subtotal vegetable products	1	—	—	—	1	—
6653 vegetable oils	1	—	—	—	1	—
Subtotal processed grain and animal feed	12	—	—	—	12	—
6782 animal feed, prep.	12	—	—	—	12	—
Subtotal other agricultural products	89	—	—	89	—	—
6861 sugar	70	—	—	70	—	—
6865 molasses	19	—	—	19	—	—
Total all manufactured equipment, machinery and products	36	—	0	27	8	1
7110 machinery (not elec)	3	—	0	2	—	1
7400 manufac. wood prod.	25	—	—	25	—	—
7600 rubber & plastic pr.	8	—	—	—	8	—

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
1988	16,643	1991	13,767	1994	16,145	1997	16,524
1989	15,055	1992	15,326	1995	15,700		
1990	14,673	1993	15,546	1996	16,893		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian		Domestic					
		Imports	Exports	Total	Lakewise		Receipts	Internal	
					Receipts	Shipments		Shipments	Intraport
Total, all commodities	16,524	457	59	16,007	13,273	1,535	460	688	51
Total coal	312	—	59	253	—	—	250	3	—
1100 coal lignite	2	—	—	2	—	—	2	—	—
1200 coal coke	311	—	59	252	—	—	249	3	—
Total petroleum and petroleum products	2,145	—	—	2,145	5	1,326	190	577	48
Subtotal petroleum products	2,145	—	—	2,145	5	1,326	190	577	48
2211 gasoline	317	—	—	317	—	306	—	12	—
2330 distillate fuel oil	404	—	—	404	—	276	48	66	15
2340 residual fuel oil	166	—	—	166	2	11	101	20	32
2350 lube oil & greases	82	—	—	82	—	—	24	58	—
2429 naphtha & solvents	6	—	—	6	—	—	6	—	—
2430 asphalt, tar & pitch	939	—	—	939	3	623	6	307	—
2540 petroleum coke	227	—	—	227	—	110	2	115	—
2990 petro. products nec	4	—	—	4	—	—	4	—	—
Total chemicals and related products	2	—	—	2	—	—	2	—	—
Subtotal other chemicals and related products	2	—	—	2	—	—	2	—	—
3279 inorganic chem. nec	2	—	—	2	—	—	2	—	—
Total crude materials, inedible except fuels	14,032	434	—	13,598	13,267	210	10	107	4
Subtotal soil, sand, gravel, rock and stone	1,187	—	—	1,187	1,171	15	—	—	—
4322 limestone	1,187	—	—	1,187	1,171	15	—	—	—
Subtotal iron ore and scrap	12,391	373	—	12,019	11,989	—	—	26	4
4410 iron ore	12,366	373	—	11,993	11,989	—	—	—	4
4420 iron & steel scrap	26	—	—	26	—	—	—	26	—
Subtotal non-ferrous ores and scrap	61	61	—	—	—	—	—	—	—
4650 aluminum ore	39	39	—	—	—	—	—	—	—
4690 non-ferrous ores nec	21	21	—	—	—	—	—	—	—
Subtotal slag	383	—	—	383	107	195	—	81	—
4860 slag	383	—	—	383	107	195	—	81	—
Subtotal other non-metal. min.	10	—	—	10	—	—	10	—	—
4900 non-metal. min. nec	10	—	—	10	—	—	10	—	—
Total primary manufactured goods	30	24	—	6	—	—	6	—	—
Subtotal lime, cement and glass	24	24	—	—	—	—	—	—	—
5290 misc. mineral prod.	24	24	—	—	—	—	—	—	—

INDIANA HARBOR, IN
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Canadian		Domestic					
		Imports	Exports	Total	Lakewise		Internal		
					Receipts	Shipments	Receipts	Shipments	Inraport
Subtotal primary non-ferrous metal products	6	—	—	6	—	—	6	—	—
5480 fab. metal products	6	—	—	6	—	—	6	—	—
Total all manufactured equipment, machinery and products	3	—	—	3	—	—	2	1	—
7110 machinery (not elec)	3	—	—	3	—	—	2	1	—

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
1988	7,468	1991	8,304	1994	9,344	1997	10,414
1989	8,695	1992	8,756	1995	10,275		
1990	9,524	1993	9,315	1996	9,848		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian Imports
		Imports	Exports	
Total, all commodities	1,783	502	66	1,215
Total coal	93	—	—	93
1100 coal lignite	55	—	—	55
1200 coal coke	38	—	—	38
Total chemicals and related products	53	—	0	53
Subtotal fertilizers	53	—	—	53
3130 potassic fert.	53	—	—	53
Subtotal other chemicals and related products	0	—	0	—
3282 pigments & paints	0	—	0	—
3286 plastics	0	—	0	—
Total crude materials, inedible except fuels	1,078	—	26	1,053
Subtotal iron ore and scrap	1,053	—	—	1,053
4410 iron ore	1,053	—	—	1,053
Subtotal sulphur, clay and salt	26	—	26	—
4782 clay & refrac. mat.	26	—	26	—
Total primary manufactured goods	518	502	—	17
Subtotal primary iron and steel products	513	496	—	17
5312 pig iron	17	—	—	17
5315 ferro alloys	7	7	—	—
5320 i&s primary forms	312	312	—	—
5330 i&s plates & sheets	155	155	—	—
5360 i&s bars & shapes	4	4	—	—
5370 i&s pipe & tube	1	1	—	—
5390 primary i&s nec	16	16	—	—
Subtotal primary non-ferrous metal products	6	6	—	—
5429 smelted prod. nec	5	5	—	—
5480 fab. metal products	0	0	—	—
Total food and farm products	40	—	—	40
Subtotal oilseeds	40	—	—	40
6522 soybeans	40	—	—	40
Total all manufactured equipment, machinery and products	1	0	0	0
7110 machinery (not elec)	0	0	—	—
7120 electrical machinery	0	0	—	—
7210 vehicles & parts	0	—	—	0
7600 rubber & plastic pr.	0	0	—	—

BURNS WATERWAY HARBOR, IN
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Total	Domestic				
		Lakewise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	8,631	6,894	195	1,078	400	64
Total coal	330	—	130	177	23	—
1100 coal lignite	69	—	—	69	—	—
1200 coal coke	261	—	130	109	23	—
Total petroleum and petroleum products	232	28	—	198	6	—
Subtotal petroleum products	232	28	—	198	6	—
2330 distillate fuel oil	26	26	—	—	—	—
2340 residual fuel oil	2	2	—	—	—	—
2350 lube oil & greases	3	—	—	—	3	—
2430 asphalt, tar & pitch	35	—	—	35	—	—
2540 petroleum coke	166	—	—	163	3	—
Total chemicals and related products	97	10	—	85	2	—
Subtotal fertilizers	58	—	—	58	—	—
3110 nitrogenous fert.	58	—	—	58	—	—
Subtotal other chemicals and related products	39	10	—	27	2	—
3219 other hydrocarbons	23	—	—	22	2	—
3274 sodium hydroxide	6	—	—	6	—	—
3276 metallic salts	10	10	—	—	—	—
Total crude materials, inedible except fuels	6,988	6,788	15	110	11	64
Subtotal soil, sand, gravel, rock and stone	868	789	—	15	—	64
4322 limestone	804	789	—	15	—	—
4331 sand & gravel	64	—	—	—	—	64
Subtotal iron ore and scrap	6,004	6,000	—	4	—	—
4410 iron ore	5,999	5,997	—	2	—	—
4420 iron & steel scrap	5	2	—	3	—	—
Subtotal sulphur, clay and salt	8	—	—	5	3	—
4782 clay & refrac. mat.	8	—	—	5	3	—
Subtotal slag	109	—	15	86	8	—
4860 slag	109	—	15	86	8	—
Total primary manufactured goods	871	68	51	505	247	—
Subtotal primary iron and steel products	870	68	51	504	247	—
5312 pig iron	60	—	—	60	—	—
5315 ferro alloys	3	—	—	1	1	—
5320 i&s primary forms	393	—	—	393	—	—
5330 i&s plates & sheets	387	68	51	29	239	—
5360 i&s bars & shapes	2	—	—	2	—	—
5390 primary i&s nec	26	—	—	19	7	—
Subtotal primary non-ferrous metal products	1	—	—	1	—	—
5480 fab. metal products	1	—	—	1	—	—
Total food and farm products	111	—	—	—	111	—
Subtotal grain	33	—	—	—	33	—
6241 wheat	16	—	—	—	16	—
6344 corn	17	—	—	—	17	—
Subtotal oilseeds	76	—	—	—	76	—
6522 soybeans	76	—	—	—	76	—
Subtotal processed grain and animal feed	2	—	—	—	2	—
6782 animal feed, prep.	2	—	—	—	2	—
Total all manufactured equipment, machinery and products	2	—	—	2	0	—
7110 machinery (not elec)	2	—	—	2	0	—

Other Harbors and Waterways 1997

Harbor or Waterway Project	Commodity	Thousand Short Tons
CHICAGO HARBOR, IL (INCLUDED IN PORT OF CHICAGO)	4335 waterway improv. mat	34
	Total Tons(x1000)	34
MICHIGAN CITY HARBOR, IN	No Commerce Reported	
Non-project		
BUFFINGTON HARBOR, IN	2330 distillate fuel oil	0
	2340 residual fuel oil	0
	4322 limestone	1,285
	4650 aluminum ore	9
	4860 slag	203
	5220 cement & concrete	3
	Total Tons(x1000)	1,500
GARY HARBOR, IN	1100 coal lignite	82
	1200 coal coke	95
	2330 distillate fuel oil	0
	2340 residual fuel oil	1
	2350 lube oil & greases	3
	2540 petroleum coke	107
	4322 limestone	239
	4410 iron ore	8,945
	4420 iron & steel scrap	137
	4782 clay & refrac. mat.	37
	4860 slag	290
	5220 cement & concrete	2
	5320 i&s primary forms	2
	5330 i&s plates & sheets	457
	5360 i&s bars & shapes	0
	5370 i&s pipe & tube	1
	5390 primary i&s nec	12
	5480 fab. metal products	8
	7110 machinery (not elec)	0
	Total Tons(x1000)	10,417

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
1988	12,116	1991	12,501	1994	9,288	1997	13,508
1989	10,536	1992	11,160	1995	8,265		
1990	12,313	1993	10,711	1996	10,662		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian	Domestic
		Exports	Lakewise Shipments
Total, all commodities	13,508	70	13,438
Total crude materials, inedible except fuels	13,508	70	13,438
Subtotal iron ore and scrap	13,508	70	13,438
4410 iron ore	13,343	70	13,273
4420 iron & steel scrap	165	—	165

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
1988	40,002	1991	37,716	1994	41,819	1997	41,929
1989	40,803	1992	39,304	1995	45,049		
1990	40,766	1993	37,679	1996	41,398		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			Internal Inraport
		Imports	Exports	Imports	Exports	Total	Lakewise		
							Receipts	Shipments	
Total, all commodities	41,929	60	2,317	767	7,611	31,154	3,563	27,564	28
Total coal	14,711	—	—	—	1,021	13,690	70	13,620	—
1100 coal lignite	14,681	—	—	—	991	13,690	70	13,620	—
1200 coal coke	30	—	—	—	30	—	—	—	—
Total petroleum and petroleum products	40	—	20	—	19	—	—	—	—
Subtotal petroleum products	40	—	20	—	19	—	—	—	—
2540 petroleum coke	40	—	20	—	19	—	—	—	—
Total chemicals and related products	23	—	0	23	—	—	—	—	—
Subtotal other chemicals and related products	23	—	0	23	—	—	—	—	—
3250 organo-inorganic comp.	0	—	0	—	—	—	—	—	—
3276 metallic salts	23	—	—	23	—	—	—	—	—
3282 pigments & paints	0	—	0	—	—	—	—	—	—
3286 plastics	0	—	0	—	—	—	—	—	—
3299 chem. products nec	0	—	0	—	—	—	—	—	—
Total crude materials, inedible except fuels	22,077	23	9	75	5,163	16,767	3,246	13,511	28
Subtotal forest products, wood and chips	0	0	0	—	—	—	—	—	—
4189 lumber	0	—	0	—	—	—	—	—	—

DULUTH-SUPERIOR HARBOR, MN AND WI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			Internal Intraport
		Imports	Exports	Imports	Exports	Total	Lakewise		
							Receipts	Shipments	
4190 forest products nec	0	0	—	—	—	—	—	—	—
Subtotal pulp and waste paper	5	—	5	—	—	—	—	—	—
4225 pulp & waste paper	5	—	5	—	—	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	3,317	—	—	—	—	3,317	3,230	59	28
4322 limestone	3,317	—	—	—	—	3,317	3,230	59	28
Subtotal iron ore and scrap	18,521	—	—	—	5,070	13,452	—	13,452	—
4410 iron ore	18,521	—	—	—	5,070	13,452	—	13,452	—
Subtotal sulphur, clay and salt	117	—	4	—	113	—	—	—	—
4782 clay & refrac. mat.	117	—	4	—	113	—	—	—	—
Subtotal slag	18	—	—	—	—	18	18	—	—
4860 slag	18	—	—	—	—	18	18	—	—
Subtotal other non-metal. min.	98	23	—	75	—	—	—	—	—
4900 non-metal. min. nec	98	23	—	75	—	—	—	—	—
Total primary manufactured goods	708	36	1	361	66	245	245	—	—
Subtotal paper products	0	—	0	—	—	—	—	—	—
5120 paper & paperboard	0	—	0	—	—	—	—	—	—
Subtotal lime, cement and glass	632	—	1	361	26	245	245	—	—
5220 cement & concrete	632	—	—	361	26	245	245	—	—
5290 misc. mineral prod.	1	—	1	—	—	—	—	—	—
Subtotal primary iron and steel products	76	36	—	—	40	—	—	—	—
5320 i&s primary forms	40	—	—	—	40	—	—	—	—
5330 i&s plates & sheets	36	36	—	—	—	—	—	—	—
Subtotal primary non-ferrous metal products	0	—	0	—	—	—	—	—	—
5480 fab. metal products	0	—	0	—	—	—	—	—	—
Subtotal primary wood products	0	—	0	—	—	—	—	—	—
5540 primary wood prod.	0	—	0	—	—	—	—	—	—
Total food and farm products	4,369	—	2,286	329	1,321	433	—	433	—
Subtotal grain	3,436	—	1,817	329	858	433	—	433	—
6241 wheat	2,207	—	1,604	—	191	413	—	413	—
6344 corn	293	—	83	—	210	—	—	—	—
6443 barley & rye	916	—	130	329	457	—	—	—	—
6445 oats	20	—	—	—	—	20	—	20	—
Subtotal oilseeds	926	—	463	—	464	—	—	—	—
6522 soybeans	872	—	430	—	442	—	—	—	—
6590 oilseeds nec	55	—	33	—	22	—	—	—	—
Subtotal vegetable products	7	—	7	—	—	—	—	—	—
6654 vegetables & prod.	7	—	7	—	—	—	—	—	—
Subtotal other agricultural products	0	—	0	—	—	—	—	—	—
6811 meat, fresh, frozen	0	—	0	—	—	—	—	—	—
6822 dairy products	0	—	0	—	—	—	—	—	—
6839 animals & prod. nec	0	—	0	—	—	—	—	—	—
6857 fruit & nuts nec	0	—	0	—	—	—	—	—	—
Total all manufactured equipment, machinery and products	1	1	0	—	—	—	—	—	—
7110 machinery (not elec)	1	1	0	—	—	—	—	—	—

DULUTH-SUPERIOR HARBOR, MN AND WI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Imports	Exports	Imports	Exports	Total	Lakewise		Internal Intraport
							Receipts	Shipments	
7210 vehicles & parts	0	—	0	—	—	—	—	—	
7230 ships & boats	0	0	—	—	—	—	—	—	
7600 rubber & plastic pr.	0	—	0	—	—	—	—	—	

TACONITE HARBOR, MN

NON-CORPS PROJECT

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	8,267	1991	8,684	1994	9,510	1997	8,607
1989	8,991	1992	9,069	1995	9,247		
1990	9,651	1993	9,716	1996	8,408		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Lakewise	
		Receipts	Shipments
Total, all commodities	8,607	599	8,008
Total coal	599	599	—
1100 coal lignite	599	599	—
Total crude materials, inedible except fuels	8,008	—	8,008
Subtotal iron ore and scrap	8,008	—	8,008
4410 iron ore	8,008	—	8,008

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
1988	11,433	1991	7,801	1994	10,191	1997	11,201
1989	12,156	1992	10,737	1995	10,099		
1990	7,737	1993	9,672	1996	8,959		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	
					Receipts	Shipments
Total, all commodities	11,201	8	1,227	9,965	2,140	7,825
Total coal	1,872	—	—	1,872	1,872	—
1100 coal lignite	1,872	—	—	1,872	1,872	—
Total chemicals and related products	8	8	—	—	—	—
Subtotal fertilizers	8	8	—	—	—	—
3130 potassic fert.	8	8	—	—	—	—
Total crude materials, inedible except fuels	9,321	—	1,227	8,094	269	7,825
Subtotal soil, sand, gravel, rock and stone	269	—	—	269	269	—
4322 limestone	269	—	—	269	269	—
Subtotal iron ore and scrap	9,052	—	1,227	7,825	—	7,825
4410 iron ore	9,052	—	1,227	7,825	—	7,825

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
1988	729	1991	634	1994	822	1997	689
1989	770	1992	454	1995	836		
1990	626	1993	789	1996	1,598		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Lakewise Receipts
Total, all commodities	689	689
Total coal	179	179
1100 coal lignite	179	179
Total crude materials, inedible except fuels	511	511
Subtotal soil, sand, gravel, rock and stone	511	511
4322 limestone	511	511

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
1988	535	1991	786	1994	1,474	1997	1,560
1989	820	1992	1,496	1995	1,606		
1990	758	1993	2,205	1996	1,682		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian	Domestic
		Exports	Lakewise Shipments
Total, all commodities	1,560	268	1,292
Total crude materials, inedible except fuels	1,560	268	1,292
Subtotal soil, sand, gravel, rock and stone	1,560	268	1,292
4322 limestone	1,560	268	1,292

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
1988	72,443	1991	68,055	1994	75,939	1997	83,822
1989	73,469	1992	71,223	1995	78,639		
1990	71,865	1993	69,623	1996	78,939		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign			Canadian		
		Exports	Through		Exports	Through	
			Upbound	Downbd		Upbound	Downbd
Total, all commodities	18,299	11	60	2,317	270	3,045	12,597
Total coal	3,168	—	—	—	—	1,572	1,596
1100 coal lignite	3,127	—	—	—	—	1,572	1,555
1200 coal coke	41	—	—	—	—	—	41
Total petroleum and petroleum products	82	—	—	20	—	—	62
Subtotal petroleum products	82	—	—	20	—	—	62
2211 gasoline	30	—	—	—	—	—	30
2330 distillate fuel oil	0	—	—	—	—	—	0
2340 residual fuel oil	11	—	—	—	—	—	11
2430 asphalt, tar & pitch	21	—	—	—	—	—	21
2540 petroleum coke	20	—	—	20	—	—	—
Total chemicals and related products	323	4	—	0	—	37	282
Subtotal fertilizers	271	—	—	—	—	—	271
3110 nitrogenous fert.	10	—	—	—	—	—	10
3130 potassic fert.	261	—	—	—	—	—	261
Subtotal other chemicals and related products	52	4	—	0	—	37	11
3250 organo-inorganic comp.	0	0	—	0	—	—	—
3274 sodium hydroxide	14	—	—	—	—	14	—
3275 inorg. elem. oxides, & halogen salts	11	—	—	—	—	—	11
3276 metallic salts	23	—	—	—	—	23	—
3282 pigments & paints	0	—	—	0	—	—	—
3284 medicines	3	3	—	—	—	—	—
3286 plastics	0	0	—	0	—	—	—
3299 chem. products nec	0	0	—	0	—	—	—

ST. MARYS RIVER, MI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign			Canadian		
		Exports	Through Upbound	Downbnd	Exports	Through Upbound	Downbnd
Total crude materials, inedible except fuels	9,789	0	23	9	268	947	8,542
Subtotal forest products, wood and chips	1	0	0	0	—	1	—
4170 wood in the rough	1	—	—	—	—	1	—
4189 lumber	0	0	—	0	—	—	—
4190 forest products nec	0	—	0	—	—	—	—
Subtotal pulp and waste paper	5	—	—	5	—	—	—
4225 pulp & waste paper	5	—	—	5	—	—	—
Subtotal soil, sand, gravel, rock and stone	2,222	—	—	—	268	826	1,128
4322 limestone	1,094	—	—	—	268	826	—
4331 sand & gravel	1,128	—	—	—	—	—	1,128
Subtotal iron ore and scrap	7,415	—	—	—	—	—	7,415
4410 iron ore	7,256	—	—	—	—	—	7,256
4420 iron & steel scrap	159	—	—	—	—	—	159
Subtotal sulphur, clay and salt	4	—	—	4	—	—	—
4782 clay & refrac. mat.	4	—	—	4	—	—	—
Subtotal other non-metal. min.	142	—	23	—	—	119	—
4900 non-metal. min. nec	142	—	23	—	—	119	—
Total primary manufactured goods	1,158	0	36	1	—	489	632
Subtotal paper products	0	0	—	0	—	—	—
5120 paper & paperboard	0	—	—	0	—	—	—
5190 paper products nec	0	0	—	—	—	—	—
Subtotal lime, cement and glass	1,085	—	—	1	—	489	595
5220 cement & concrete	1,084	—	—	—	—	489	595
5290 misc. mineral prod.	1	—	—	1	—	—	—
Subtotal primary iron and steel products	73	0	36	—	—	—	37
5312 pig iron	16	0	—	—	—	—	16
5320 i&s primary forms	21	—	—	—	—	—	21
5330 i&s plates & sheets	36	—	36	—	—	—	—
Subtotal primary non-ferrous metal products	0	—	—	0	—	—	0
5480 fab. metal products	0	—	—	0	—	—	0
Subtotal primary wood products	0	—	—	0	—	—	—
5540 primary wood prod.	0	—	—	0	—	—	—
Total food and farm products	3,777	6	—	2,286	2	—	1,483
Subtotal grain	2,841	2	—	1,817	2	—	1,020
6241 wheat	1,947	—	—	1,604	—	—	344
6344 corn	243	2	—	83	2	—	155
6443 barley & rye	605	—	—	130	—	—	475
6445 oats	46	—	—	—	—	—	46
Subtotal oilseeds	908	3	—	463	—	—	442
6522 soybeans	875	3	—	430	—	—	442
6590 oilseeds nec	33	—	—	33	—	—	—
Subtotal vegetable products	7	0	—	7	—	—	—
6653 vegetable oils	0	0	—	—	—	—	—
6654 vegetables & prod.	7	0	—	7	—	—	—
Subtotal processed grain and animal feed	21	0	—	—	—	—	21
6747 grain mill products	0	0	—	—	—	—	—
6782 animal feed, prep.	21	0	—	—	—	—	21
Subtotal other agricultural products	1	0	—	0	—	—	—
6811 meat, fresh, frozen	0	—	—	0	—	—	—
6822 dairy products	0	—	—	0	—	—	—
6839 animals & prod. nec	0	0	—	0	—	—	—
6857 fruit & nuts nec	0	—	—	0	—	—	—
Total all manufactured equipment, machinery and products	3	1	1	0	—	—	0
7110 machinery (not elec)	2	0	1	0	—	—	0
7210 vehicles & parts	0	—	—	0	—	—	0
7230 ships & boats	0	—	0	—	—	—	—
7600 rubber & plastic pr.	0	—	—	0	—	—	—
7900 manufac. prod. nec	1	1	—	—	—	—	0
Total unknown or not elsewhere classified	0	—	—	—	—	—	0
9900 unknown or nec	0	—	—	—	—	—	0
Ton-miles (x1000)	1,078,217	510	3,848	148,265	4,312	143,681	777,602
Foreign & Canadian							

Commodity	Total	Lakewise			
		Receipts	Shipments	Through Upbound	Downbnd
Total, all commodities	65,523	71	1,292	5,115	59,044
Total coal	12,598	4	—	1,088	11,506
1100 coal lignite	12,598	4	—	1,088	11,506
Total crude materials, inedible except fuels	52,247	67	1,292	3,783	47,106
Subtotal soil, sand, gravel, rock and stone	5,150	67	1,292	3,765	26
4322 limestone	5,150	67	1,292	3,765	26

ST. MARYS RIVER, MI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Lakewise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Subtotal iron ore and scrap	47,079	—	—	—	47,079
4410 iron ore	46,914	—	—	—	46,914
4420 iron & steel scrap	165	—	—	—	165
Subtotal slag	18	—	—	18	—
4860 slag	18	—	—	18	—
Total primary manufactured goods	245	—	—	245	—
Subtotal lime, cement and glass	245	—	—	245	—
5220 cement & concrete	245	—	—	245	—
Total food and farm products	433	—	—	—	433
Subtotal grain	433	—	—	—	433
6241 wheat	413	—	—	—	413
6445 oats	20	—	—	—	20
Ton-miles (x1000)	4,153,746	3,327	44,213	327,370	3,778,837
Lakewise					
Tons All Traffic (x1000)	83,822				
Ton-miles All Traffic (x1000)	5,231,964				

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
1988	74,054	1991	64,808	1994	72,657	1997	79,850
1989	75,143	1992	67,752	1995	75,113		
1990	68,514	1993	65,351	1996	75,353		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Through		Through		Total	Lakewise	
		Upbound	Downbnd	Upbound	Downbnd		Upbound	Downbnd
Total, all commodities	79,850	60	2,317	1,006	11,856	64,611	5,567	59,044
Total coal	14,068	—	—	206	1,264	12,598	1,092	11,506
1100 coal lignite	14,038	—	—	206	1,234	12,598	1,092	11,506
1200 coal coke	30	—	—	—	30	—	—	—
Total petroleum and petroleum products	64	—	20	—	44	—	—	—
Subtotal petroleum products	64	—	20	—	44	—	—	—
2211 gasoline	30	—	—	—	30	—	—	—
2330 distillate fuel oil	0	—	—	—	0	—	—	—
2340 residual fuel oil	11	—	—	—	11	—	—	—
2430 asphalt, tar & pitch	3	—	—	—	3	—	—	—
2540 petroleum coke	20	—	20	—	—	—	—	—
Total chemicals and related products	319	—	0	37	282	—	—	—
Subtotal fertilizers	271	—	—	—	271	—	—	—
3110 nitrogenous fert.	10	—	—	—	10	—	—	—
3130 potassic fert.	261	—	—	—	261	—	—	—
Subtotal other chemicals and related products	48	—	0	37	11	—	—	—
3250 organo-inorganic comp.	0	—	0	—	—	—	—	—
3274 sodium hydroxide	14	—	—	14	—	—	—	—
3275 inorg. elem. oxides, & halogen salts	11	—	—	—	11	—	—	—
3276 metallic salts	23	—	—	23	—	—	—	—
3282 pigments & paints	0	—	0	—	—	—	—	—
3286 plastics	0	—	0	—	—	—	—	—
3299 chem. products nec	0	—	0	—	—	—	—	—
Total crude materials, inedible except fuels	59,885	23	9	349	8,168	51,336	4,231	47,106
Subtotal forest products, wood and chips	1	0	0	1	—	—	—	—
4170 wood in the rough	1	—	—	1	—	—	—	—
4189 lumber	0	—	0	—	—	—	—	—
4190 forest products nec	0	0	—	—	—	—	—	—
Subtotal pulp and waste paper	5	—	5	—	—	—	—	—
4225 pulp & waste paper	5	—	5	—	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	5,473	—	—	228	1,006	4,239	4,213	26
4322 limestone	4,467	—	—	228	—	4,239	4,213	26
4331 sand & gravel	1,006	—	—	—	1,006	—	—	—

ST. MARYS FALLS CANAL, MI AND SAULT STE. MARIE, ONTARIO SHIP CANAL, CN (INCLUDED IN ST. MARYS RIVER)
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Through		Through		Total	Lakewise	
		Upbound	Downbnd	Upbound	Downbnd		Through	
						Upbound	Downbnd	
Subtotal iron ore and scrap	54,241	—	—	—	7,162	47,079	—	47,079
4410 iron ore	54,076	—	—	—	7,162	46,914	—	46,914
4420 iron & steel scrap	165	—	—	—	—	165	—	165
Subtotal sulphur, clay and salt	4	—	4	—	—	—	—	—
4782 clay & refrac. mat.	4	—	4	—	—	—	—	—
Subtotal slag	18	—	—	—	—	18	18	—
4860 slag	18	—	—	—	—	18	18	—
Subtotal other non-metal. min.	142	23	—	119	—	—	—	—
4900 non-metal. min. nec	142	23	—	119	—	—	—	—
Total primary manufactured goods	1,311	36	1	415	615	245	245	—
Subtotal paper products	0	—	0	—	—	—	—	—
5120 paper & paperboard	0	—	0	—	—	—	—	—
Subtotal lime, cement and glass	1,255	—	1	415	594	245	245	—
5220 cement & concrete	1,254	—	—	415	594	245	245	—
5290 misc. mineral prod.	1	—	1	—	—	—	—	—
Subtotal primary iron and steel products	56	36	—	—	21	—	—	—
5320 i&s primary forms	21	—	—	—	21	—	—	—
5330 i&s plates & sheets	36	36	—	—	—	—	—	—
Subtotal primary non-ferrous metal products	0	—	0	—	—	—	—	—
5480 fab. metal products	0	—	0	—	—	—	—	—
Subtotal primary wood products	0	—	0	—	—	—	—	—
5540 primary wood prod.	0	—	0	—	—	—	—	—
Total food and farm products	4,202	—	2,286	—	1,483	433	—	433
Subtotal grain	3,270	—	1,817	—	1,020	433	—	433
6241 wheat	2,360	—	1,604	—	344	413	—	413
6344 corn	239	—	83	—	155	—	—	—
6443 barley & rye	605	—	130	—	475	—	—	—
6445 oats	66	—	—	—	46	20	—	20
Subtotal oilseeds	904	—	463	—	442	—	—	—
6522 soybeans	872	—	430	—	442	—	—	—
6590 oilseeds nec	33	—	33	—	—	—	—	—
Subtotal vegetable products	7	—	7	—	—	—	—	—
6654 vegetables & prod.	7	—	7	—	—	—	—	—
Subtotal processed grain and animal feed	21	—	—	—	21	—	—	—
6782 animal feed, prep.	21	—	—	—	21	—	—	—
Subtotal other agricultural products	0	—	0	—	—	—	—	—
6811 meat, fresh, frozen	0	—	0	—	—	—	—	—
6822 dairy products	0	—	0	—	—	—	—	—
6839 animals & prod. nec	0	—	0	—	—	—	—	—
6857 fruit & nuts nec	0	—	0	—	—	—	—	—
Total all manufactured equipment, machinery and products	1	1	0	—	—	—	—	—
7110 machinery (not elec)	1	1	0	—	—	—	—	—
7210 vehicles & parts	0	—	0	—	—	—	—	—
7230 ships & boats	0	0	—	—	—	—	—	—
7600 rubber & plastic pr.	0	—	0	—	—	—	—	—
Total unknown or not elsewhere classified	0	—	—	—	0	—	—	—
9900 unknown or nec	0	—	—	—	0	—	—	—
Ton-miles (x1000)	4,844,974	3,787	145,948	63,406	589,333	4,042,499	322,706	3,719,793
Tons All Traffic (x1000)		79,850						
Ton-miles All Traffic (x1000)		4,844,974						

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
1988	3,713	1991	8,265	1994	9,763	1997	8,677
1989	4,569	1992	8,826	1995	8,792		
1990	8,214	1993	8,892	1996	8,152		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian	Total	Domestic		Internal	
		Through		Lakewise		Through	
		Upbound		Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	8,677	76	8,602	3,310	5,259	25	8
Total coal	3,229	—	3,229	866	2,362	—	—
1100 coal lignite	3,076	—	3,076	714	2,362	—	—
1200 coal coke	153	—	153	153	—	—	—
Total petroleum and petroleum products	750	—	750	685	32	25	8
Subtotal petroleum products	750	—	750	685	32	25	8
2211 gasoline	172	—	172	155	17	—	—
2330 distillate fuel oil	127	—	127	127	—	—	—
2340 residual fuel oil	27	—	27	14	—	13	—
2430 asphalt, tar & pitch	313	—	313	291	9	5	8
2540 petroleum coke	111	—	111	98	5	7	—
Total chemicals and related products	97	—	97	97	—	—	—
Subtotal other chemicals and related products	97	—	97	97	—	—	—
3276 metallic salts	97	—	97	97	—	—	—
Total crude materials, inedible except fuels	3,250	—	3,250	1,263	1,987	—	—
Subtotal soil, sand, gravel, rock and stone	2,852	—	2,852	1,163	1,690	—	—
4322 limestone	2,543	—	2,543	1,163	1,380	—	—
4323 gypsum	303	—	303	—	303	—	—
4331 sand & gravel	7	—	7	—	7	—	—
Subtotal iron ore and scrap	137	—	137	82	55	—	—
4410 iron ore	137	—	137	82	55	—	—
Subtotal slag	125	—	125	18	107	—	—
4860 slag	125	—	125	18	107	—	—
Subtotal other non-metal. min.	135	—	135	—	135	—	—
4900 non-metal. min. nec	135	—	135	—	135	—	—
Total primary manufactured goods	1,352	76	1,276	398	878	—	—
Subtotal lime, cement and glass	1,352	76	1,276	398	878	—	—
5220 cement & concrete	1,352	76	1,276	398	878	—	—
Ton-miles (x1000)	996,930	1,514	995,416	447,696	540,280	6,547	894

Tons All Traffic (x1000) 8,677
Ton-miles All Traffic (x1000) 996,930

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
1988	118	1991	1,312	1994	1,549	1997	1,529
1989	1,456	1992	1,353	1995	1,584		
1990	1,508	1993	1,467	1996	1,666		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian	Domestic		
		Exports	Total	Lakewise	
			Receipts	Shipments	
Total, all commodities	1,529	76	1,453	224	1,229
Total coal	164	—	164	164	—
1100 coal lignite	164	—	164	164	—
Total crude materials, inedible except fuels	43	—	43	43	—
Subtotal soil, sand, gravel, rock and stone	43	—	43	43	—
4322 limestone	14	—	14	14	—
4323 gypsum	28	—	28	28	—

CHARLEVOIX HARBOR, MI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Canadian Exports	Domestic		
			Total	Lakewise	
				Receipts	Shipments
Total primary manufactured goods	1,317	76	1,241	16	1,225
Subtotal lime, cement and glass	1,317	76	1,241	16	1,225
5220 cement & concrete	1,317	76	1,241	16	1,225
Total unknown or not elsewhere classified	5	—	5	1	4
9900 unknown or nec	5	—	5	1	4

TRAVERSE CITY HARBOR, MI

Section Included: City of Traverse City and the Bay Shore to and including the existing federal project located at Greilickville Hbr., Michigan, about 1.25 miles north of the city limits. Controlling Depth: 14 and 10 feet at the existing project. Project Depth: 14 feet in basin area and 10 feet in mooring area at the existing project. Navigation season: March 4 to December 31.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	259	1991	190	1994	282	1997	288
1989	212	1992	221	1995	226		
1990	210	1993	221	1996	297		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Lakewise Receipts
Total, all commodities	288	288
Total petroleum and petroleum products	288	288
Subtotal petroleum products	288	288
2211 gasoline	167	167
2330 distillate fuel oil	121	121

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
1988	245	1991	372	1994	483	1997	477
1989	325	1992	456	1995	432		
1990	535	1993	425	1996	460		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian		Domestic			Internal Shipments
		Imports	Exports	Total	Lakewise		
					Receipts	Shipments	
Total, all commodities	477	80	9	388	374	10	4
Total coal	303	—	—	303	303	—	—
1100 coal lignite	273	—	—	273	273	—	—
1200 coal coke	31	—	—	31	31	—	—
Total chemicals and related products	23	—	9	14	—	10	4
Subtotal other chemicals and related products	23	—	9	14	—	10	4
3276 metallic salts	23	—	9	14	—	10	4
Total crude materials, inedible except fuels	150	80	—	70	70	—	—
Subtotal soil, sand, gravel, rock and stone	70	—	—	70	70	—	—
4322 limestone	70	—	—	70	70	—	—
Subtotal sulphur, clay and salt	61	61	—	—	—	—	—
4782 clay & refrac. mat.	61	61	—	—	—	—	—
Subtotal other non-metal. min.	19	19	—	—	—	—	—
4900 non-metal. min. nec	19	19	—	—	—	—	—

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
1988	1,152	1991	929	1994	1,093	1997	864
1989	1,179	1992	846	1995	1,150		
1990	1,291	1993	966	1996	1,237		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic			
		Imports	Exports	Imports	Total	Lakewise		Internal Shipments
						Receipts	Shipments	
Total, all commodities	864	8	15	120	720	478	120	122
Total petroleum and petroleum products	1	—	—	—	1	—	—	1
Subtotal petroleum products	1	—	—	—	1	—	—	1
2330 distillate fuel oil	1	—	—	—	1	—	—	1
Total chemicals and related products	241	—	—	—	241	—	120	121
Subtotal other chemicals and related products	241	—	—	—	241	—	120	121
3276 metallic salts	241	—	—	—	241	—	120	121
Total crude materials, inedible except fuels	622	8	15	120	478	478	—	—
Subtotal soil, sand, gravel, rock and stone	494	—	—	25	470	470	—	—
4322 limestone	470	—	—	—	470	470	—	—
4331 sand & gravel	25	—	—	25	—	—	—	—
Subtotal sulphur, clay and salt	119	8	15	95	—	—	—	—
4782 clay & refrac. mat.	119	8	15	95	—	—	—	—
Subtotal slag	9	—	—	—	9	9	—	—
4860 slag	9	—	—	—	9	9	—	—

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
1988	1,544	1991	1,358	1994	2,004	1997	2,061
1989	1,877	1992	1,562	1995	1,825		
1990	1,802	1993	1,635	1996	2,172		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian	Domestic		
		Imports	Total	Lakewise	
				Receipts	Shipments
Total, all commodities	2,061	290	1,771	1,760	11
Total coal	1,159	—	1,159	1,159	—
1100 coal lignite	1,159	—	1,159	1,159	—
Total chemicals and related products	0	0	—	—	—
Subtotal other chemicals and related products	0	0	—	—	—
3240 nitrogen func. comp.	0	0	—	—	—
Total crude materials, inedible except fuels	752	281	471	460	11
Subtotal soil, sand, gravel, rock and stone	314	31	283	272	11
4322 limestone	272	—	272	272	—
4331 sand & gravel	42	31	11	—	11
Subtotal sulphur, clay and salt	50	50	—	—	—
4782 clay & refrac. mat.	50	50	—	—	—
Subtotal slag	188	—	188	188	—
4860 slag	188	—	188	188	—
Subtotal other non-metal. min.	200	200	—	—	—
4900 non-metal. min. nec	200	200	—	—	—
Total primary manufactured goods	150	9	141	141	—
Subtotal lime, cement and glass	150	9	141	141	—
5220 cement & concrete	150	9	141	141	—

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
1988	1,424	1991	792	1994	878	1997	988
1989	1,333	1992	871	1995	961		
1990	1,052	1993	1,004	1996	971		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Exports	Imports	Exports	Imports	Total	Lakewise	
							Receipts	Shipments
Total, all commodities	988	6	64	237	682	621	61	
Total coal	175	—	—	—	175	175	—	
1100 coal lignite	175	—	—	—	175	175	—	
Total chemicals and related products	5	—	5	—	—	—	—	
Subtotal fertilizers	5	—	5	—	—	—	—	
3110 nitrogenous fert.	5	—	5	—	—	—	—	
Total crude materials, inedible except fuels	681	6	58	237	380	319	61	
Subtotal forest products, wood and chips	6	6	—	—	—	—	—	
4161 wood chips	6	6	—	—	—	—	—	
Subtotal soil, sand, gravel, rock and stone	480	—	—	237	243	182	61	
4322 limestone	175	—	—	—	175	175	—	
4331 sand & gravel	305	—	—	237	68	7	61	
Subtotal iron ore and scrap	29	—	29	—	—	—	—	
4410 iron ore	29	—	29	—	—	—	—	
Subtotal sulphur, clay and salt	12	—	12	—	—	—	—	
4782 clay & refrac. mat.	12	—	12	—	—	—	—	
Subtotal slag	137	—	—	—	137	137	—	
4860 slag	137	—	—	—	137	137	—	
Subtotal other non-metal. min.	18	—	18	—	—	—	—	
4900 non-metal. min. nec	18	—	18	—	—	—	—	
Total primary manufactured goods	127	—	—	—	127	127	—	
Subtotal lime, cement and glass	127	—	—	—	127	127	—	
5220 cement & concrete	127	—	—	—	127	127	—	

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
1988	313	1991	262	1994	391	1997	398
1989	361	1992	316	1995	432		
1990	391	1993	317	1996	407		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	
					Receipts	Shipments
Total, all commodities	398	24	—	374	372	2
Total coal	153	—	—	153	153	—
1100 coal lignite	153	—	—	153	153	—

HOLLAND HARBOR, MI
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Canadian	Domestic		
		Imports	Total	Lakewise	
			Receipts	Shipments	
Total crude materials, inedible except fuels	245	24	221	219	2
Subtotal soil, sand, gravel, rock and stone	204	—	204	204	—
4322 limestone	204	—	204	204	—
Subtotal iron ore and scrap	2	—	2	—	2
4420 iron & steel scrap	2	—	2	—	2
Subtotal slag	15	—	15	15	—
4860 slag	15	—	15	15	—
Subtotal other non-metal. min.	24	24	—	—	—
4900 non-metal. min. nec	24	24	—	—	—

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 of 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
1988	463	1991	418	1994	631	1997	609
1989	386	1992	543	1995	598		
1990	445	1993	485	1996	447		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Lakewise Receipts
Total, all commodities	609	609
Total crude materials, inedible except fuels	393	393
Subtotal soil, sand, gravel, rock and stone	393	393
4322 limestone	393	393
Total primary manufactured goods	216	216
Subtotal lime, cement and glass	216	216
5220 cement & concrete	216	216

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
1988	162	1991	115	1994	299	1997	282
1989	143	1992	110	1995	314		
1990	134	1993	221	1996	276		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Lakewise Receipts
Total, all commodities	282	282
Total petroleum and petroleum products	282	282
Subtotal petroleum products	282	282
2211 gasoline	155	155
2330 distillate fuel oil	127	127

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
1988	2,289	1991	2,076	1994	2,641	1997	3,265
1989	2,379	1992	2,153	1995	3,262		
1990	2,128	1993	2,496	1996	2,858		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
Total, all commodities	1,526	169	24	1,176	157
Total petroleum and petroleum products	0	—	0	—	—
Subtotal petroleum products	0	—	0	—	—
2350 lube oil & greases	0	—	0	—	—
Total chemicals and related products	0	—	0	—	—
Subtotal other chemicals and related products	0	—	0	—	—
3220 alcohols	0	—	0	—	—
3284 medicines	0	—	0	—	—
3286 plastics	0	—	0	—	—
3299 chem. products nec	0	—	0	—	—
Total crude materials, inedible except fuels	1,048	—	4	1,004	40
Subtotal pulp and waste paper	4	—	4	—	—
4225 pulp & waste paper	4	—	4	—	—
Subtotal soil, sand, gravel, rock and stone	40	—	—	—	40
4331 sand & gravel	40	—	—	—	40
Subtotal other non-metal. min.	1,004	—	—	1,004	—
4900 non-metal. min. nec	1,004	—	—	1,004	—
Total primary manufactured goods	339	167	0	172	—
Subtotal paper products	0	—	0	—	—
5120 paper & paperboard	0	—	0	—	—
5190 paper products nec	0	—	0	—	—
Subtotal lime, cement and glass	128	—	0	128	—
5220 cement & concrete	128	—	—	128	—
5240 glass & glass prod.	0	—	0	—	—
Subtotal primary iron and steel products	211	167	0	43	—
5312 pig iron	43	—	—	43	—
5320 i&s primary forms	7	7	—	—	—
5330 i&s plates & sheets	128	128	—	—	—
5360 i&s bars & shapes	32	32	—	—	—
5370 i&s pipe & tube	0	—	0	—	—
5390 primary i&s nec	0	0	—	—	—
Subtotal primary non-ferrous metal products	0	0	0	—	—
5480 fab. metal products	0	0	0	—	—
Total food and farm products	137	—	20	—	117
Subtotal grain	60	—	—	—	60
6344 corn	60	—	—	—	60
Subtotal oilseeds	76	—	19	—	57
6522 soybeans	76	—	19	—	57
Subtotal processed grain and animal feed	0	—	0	—	—
6781 hay & fodder	0	—	0	—	—
Subtotal other agricultural products	0	—	0	—	—
6839 animals & prod. nec	0	—	0	—	—
6891 tobacco & products	0	—	0	—	—
Total all manufactured equipment, machinery and products	2	2	0	0	—
7110 machinery (not elec)	1	1	0	0	—
7120 electrical machinery	0	0	0	—	—
7230 ships & boats	0	0	0	—	—
7500 textile products	0	0	—	—	—
7600 rubber & plastic pr.	0	—	0	—	—
7900 manufac. prod. nec	0	0	0	0	—

Commodity	Total	Domestic			
		Lakewise		Internal	
		Receipts	Shipments	Receipts	Shipments
Total, all commodities	1,739	1,672	62	5	1
Total coal	818	818	—	—	—
1100 coal lignite	818	818	—	—	—
Total petroleum and petroleum products	166	161	—	5	—
Subtotal petroleum products	166	161	—	5	—
2430 asphalt, tar & pitch	146	140	—	5	—
2540 petroleum coke	20	20	—	—	—

MILWAUKEE HARBOR, WI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Domestic			
		Lakewise		Internal	
		Receipts	Shipments	Receipts	Shipments
Total crude materials, inedible except fuels	257	236	21	—	—
Subtotal soil, sand, gravel, rock and stone	137	116	21	—	—
4322 limestone	36	36	—	—	—
4331 sand & gravel	61	61	—	—	—
4335 waterway improv. mat	40	19	21	—	—
Subtotal other non-metal. min.	120	120	—	—	—
4900 non-metal. min. nec	120	120	—	—	—
Total primary manufactured goods	465	457	8	—	—
Subtotal lime, cement and glass	465	457	8	—	—
5220 cement & concrete	465	457	8	—	—
Total food and farm products	33	—	33	—	—
Subtotal grain	33	—	33	—	—
6241 wheat	33	—	33	—	—
Total all manufactured equipment, machinery and products	1	0	0	—	1
7110 machinery (not elec)	1	0	0	—	1

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
1988	186	1991	125	1994	335	1997	595
1989	173	1992	120	1995	390		
1990	139	1993	84	1996	546		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Lakewise Receipts
Total, all commodities	595	595
Total coal	595	595
1100 coal lignite	595	595

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
1988	112	1991	272	1994	330	1997	407
1989	218	1992	274	1995	373		
1990	201	1993	300	1996	312		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian Imports	Domestic			
			Total	Lakewise		Internal Shipments
				Receipts	Shipments	
Total, all commodities	407	37	371	267	39	65
Total coal	103	—	103	103	—	—
1100 coal lignite	103	—	103	103	—	—
Total crude materials, inedible except fuels	104	—	104	—	39	65
Subtotal soil, sand, gravel, rock and stone	104	—	104	—	39	65
4322 limestone	20	—	20	—	20	—
4335 waterway improv. mat	84	—	84	—	19	65
Total primary manufactured goods	183	19	164	164	—	—
Subtotal lime, cement and glass	183	19	164	164	—	—
5220 cement & concrete	183	19	164	164	—	—
Total food and farm products	18	18	—	—	—	—
Subtotal grain	18	18	—	—	—	—
6443 barley & rye	18	18	—	—	—	—

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
1988	1,640	1991	2,068	1994	2,288	1997	2,130
1989	1,547	1992	2,431	1995	2,122		
1990	1,677	1993	2,587	1996	2,176		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		Internal Intra Upbound
		Exports	Imports	Total	Lakewise	Receipts		
Total, all commodities	2,130	16	223	1,891	1,670	221		
Total coal	817	—	—	817	817	—		
1100 coal lignite	817	—	—	817	817	—		
Total petroleum and petroleum products	71	—	—	71	71	—		
Subtotal petroleum products	71	—	—	71	71	—		
2430 asphalt, tar & pitch	71	—	—	71	71	—		
Total chemicals and related products	24	1	—	23	23	—		
Subtotal other chemicals and related products	24	1	—	23	23	—		
3219 other hydrocarbons	1	1	—	—	—	—		
3276 metallic salts	23	—	—	23	23	—		
Total crude materials, inedible except fuels	864	—	188	676	455	221		
Subtotal soil, sand, gravel, rock and stone	661	—	—	661	440	221		
4322 limestone	440	—	—	440	440	—		
4331 sand & gravel	221	—	—	221	—	221		
Subtotal other non-metal. min.	203	—	188	15	15	—		
4900 non-metal. min. nec	203	—	188	15	15	—		
Total primary manufactured goods	339	0	35	304	304	—		
Subtotal paper products	0	0	—	—	—	—		
5120 paper & paperboard	0	0	—	—	—	—		
Subtotal lime, cement and glass	331	—	27	304	304	—		
5220 cement & concrete	331	—	27	304	304	—		
Subtotal primary iron and steel products	8	—	8	—	—	—		
5312 pig iron	8	—	8	—	—	—		
Total food and farm products	15	15	—	—	—	—		
Subtotal other agricultural products	15	15	—	—	—	—		
6838 tallow, animal oils	15	15	—	—	—	—		

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
1988	2,128	1991	2,284	1994	2,672	1997	2,901
1989	2,397	1992	2,486	1995	2,767		
1990	2,255	1993	2,547	1996	2,345		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	Shipments
				Receipts		
Total, all commodities	2,901	75	186	2,640	645	1,996
Total coal	551	—	—	551	551	—
1100 coal lignite	313	—	—	313	313	—
1200 coal coke	238	—	—	238	238	—
Total crude materials, inedible except fuels	213	75	44	94	94	—
Subtotal soil, sand, gravel, rock and stone	19	—	19	—	—	—
4331 sand & gravel	19	—	19	—	—	—
Subtotal iron ore and scrap	91	—	—	91	91	—
4410 iron ore	91	—	—	91	91	—
Subtotal slag	28	—	25	4	4	—
4860 slag	28	—	25	4	4	—

ALPENA HARBOR, MI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	
					Receipts	Shipments
Subtotal other non-metal. min.	75	75	—	—	—	—
4900 non-metal. min. nec	75	75	—	—	—	—
Total primary manufactured goods	2,138	—	143	1,996	—	1,996
Subtotal lime, cement and glass	2,138	—	143	1,996	—	1,996
5220 cement & concrete	2,138	—	143	1,996	—	1,996
Total unknown or not elsewhere classified	0	0	—	—	—	—
9900 unknown or nec	0	0	—	—	—	—

MENOMINEE HARBOR AND RIVER, MI AND WI

Section Included: Entrance channel and lower 2.0 miles of Menominee River. Controlling and project depths: 20 feet controlling depth, 23 feet project depth in the Approach Channel; 18 feet controlling depth, 21 feet project depth in the entrance and river channels, 19 feet in the river adjacent to the Marinette Marine Corp., 12 feet to the end of the project, and 18.5 feet controlling depth, 21 feet project depth in the Turning Basin.

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	117	1991	112	1994	217	1997	260
1989	129	1992	130	1995	194		
1990	102	1993	162	1996	191		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Imports	Exports	Imports	Total	Lakewise	
						Receipts	Shipments
Total, all commodities	260	3	18	147	92	89	3
Total coal	73	—	—	—	73	73	—
1100 coal lignite	73	—	—	—	73	73	—
Total crude materials, inedible except fuels	110	3	18	80	9	9	—
Subtotal pulp and waste paper	21	3	18	—	—	—	—
4225 pulp & waste paper	21	3	18	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	9	—	—	—	9	9	—
4322 limestone	9	—	—	—	9	9	—
Subtotal other non-metal. min.	80	—	—	80	—	—	—
4900 non-metal. min. nec	80	—	—	80	—	—	—
Total primary manufactured goods	77	—	—	67	10	8	3
Subtotal lime, cement and glass	10	—	—	10	—	—	—
5220 cement & concrete	10	—	—	10	—	—	—
Subtotal primary iron and steel products	68	—	—	57	10	8	3
5312 pig iron	68	—	—	57	10	8	3
Total food and farm products	0	0	—	—	—	—	—
Subtotal other agricultural products	0	0	—	—	—	—	—
6885 alcoholic beverages	0	0	—	—	—	—	—
6889 food products nec	0	0	—	—	—	—	—

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
1988	4,571	1991	3,895	1994	5,119	1997	5,730
1989	4,674	1992	3,789	1995	4,720		
1990	4,039	1993	5,234	1996	5,264		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Exports	Imports	Exports	Imports	Total	Lakewise	
							Receipts	Shipments
Total, all commodities	5,730	15	1,205	7	4,503	4,499	4	
Total coal	467	—	—	—	467	467	—	
1100 coal lignite	467	—	—	—	467	467	—	
Total petroleum and petroleum products	65	15	11	7	32	32	—	
Subtotal petroleum products	65	15	11	7	32	32	—	
2211 gasoline	17	—	—	—	17	17	—	
2340 residual fuel oil	22	—	7	—	15	15	—	
2350 lube oil & greases	7	—	—	7	—	—	—	
2540 petroleum coke	19	15	4	—	—	—	—	
Total chemicals and related products	222	—	125	—	97	97	—	
Subtotal fertilizers	125	—	125	—	—	—	—	
3130 potassic fert.	125	—	125	—	—	—	—	
Subtotal other chemicals and related products	97	—	—	—	97	97	—	
3276 metallic salts	97	—	—	—	97	97	—	
Total crude materials, inedible except fuels	4,580	—	820	—	3,760	3,757	4	
Subtotal soil, sand, gravel, rock and stone	4,262	—	649	—	3,613	3,613	—	
4310 building stone	11	—	11	—	—	—	—	
4322 limestone	3,578	—	—	—	3,578	3,578	—	
4331 sand & gravel	674	—	638	—	36	36	—	
Subtotal slag	4	—	—	—	4	—	4	
4860 slag	4	—	—	—	4	—	4	
Subtotal other non-metal. min.	314	—	171	—	143	143	—	
4900 non-metal. min. nec	314	—	171	—	143	143	—	
Total primary manufactured goods	396	—	249	—	147	147	—	
Subtotal lime, cement and glass	396	—	249	—	147	147	—	
5220 cement & concrete	396	—	249	—	147	147	—	

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
1988	76,541	1991	66,003	1994	75,531	1997	79,777
1989	78,458	1992	68,613	1995	78,813		
1990	75,438	1993	69,062	1996	78,546		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports	Exports	Through		Imports	Exports	Through	
				Upbound	Downbnd			Upbound	Downbnd
Total, all commodities	24,786	14	13	1,892	2,771	450	47	7,984	11,615
Total coal	5,691	—	—	—	28	—	—	4,348	1,315
1100 coal lignite	5,522	—	—	—	28	—	—	4,255	1,267
1200 coal coke	170	—	—	—	—	—	—	93	48

ST. CLAIR RIVER, MI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports	Exports	Through		Imports	Exports	Through	
				Upbound	Downbnd			Upbound	Downbnd
Total petroleum and petroleum products	809	---	0	0	36	0	---	310	464
Subtotal petroleum products	809	---	0	0	36	0	---	310	464
2211 gasoline	38	---	---	0	---	---	---	---	37
2330 distillate fuel oil	7	---	---	---	---	---	---	---	7
2340 residual fuel oil	126	---	---	---	0	---	---	60	66
2350 lube oil & greases	28	---	0	0	0	---	---	1	27
2429 naphtha & solvents	0	---	---	---	---	---	---	0	---
2430 asphalt, tar & pitch	119	---	---	---	---	---	---	42	77
2540 petroleum coke	491	---	---	0	36	0	---	207	249
2640 liquid natural gas	0	---	---	---	---	0	---	---	---
Total chemicals and related products	334	1	4	9	19	36	0	98	167
Subtotal fertilizers	182	---	---	---	0	25	---	7	150
3110 nitrogenous fert.	59	---	---	---	---	25	---	---	33
3120 phosphatic fert.	0	---	---	---	---	---	---	0	---
3130 potassic fert.	123	---	---	---	---	---	---	7	116
3190 fert. & mixes nec	0	---	---	---	0	---	---	---	---
Subtotal other chemicals and related products	152	1	4	9	19	11	0	91	17
3212 benzene & toluene	7	---	---	---	---	---	---	7	---
3219 other hydrocarbons	8	0	---	6	1	---	---	2	---
3220 alcohols	40	0	---	0	2	---	---	23	16
3230 carboxylic acids	2	0	---	2	0	---	---	0	---
3240 nitrogen func. comp.	4	0	0	0	0	3	---	0	0
3250 organo-inorganic comp.	1	0	0	0	1	---	0	---	---
3260 organic comp. nec	2	0	1	0	1	---	---	0	0
3273 ammonia	1	---	---	---	---	1	---	---	0
3274 sodium hydroxide	32	---	---	---	---	---	---	32	---
3275 inorg. elem., oxides, & halogen salts	13	0	---	0	1	6	---	5	1
3276 metallic salts	23	0	---	0	0	---	---	23	---
3279 inorganic chem. nec	0	---	---	0	---	---	---	---	---
3281 radioactive material	0	0	---	0	---	---	---	---	---
3282 pigments & paints	1	0	0	0	0	0	---	---	0
3283 coloring mat. nec	0	0	---	0	0	---	---	---	---
3284 medicines	4	0	0	0	3	---	---	0	---
3285 perfumes & cleansers	2	0	1	0	1	0	---	---	0
3286 plastics	3	0	1	0	2	0	---	---	0
3291 pesticides	0	---	0	---	0	---	---	---	---
3292 starches, gluten, glue	7	0	0	0	6	---	---	---	---
3297 chemical additives	0	0	0	---	0	0	---	---	---
3298 wood & resin chem.	0	---	---	---	0	---	---	---	---
3299 chem. products nec	1	0	0	0	1	---	---	0	0
Total crude materials, inedible except fuels	10,757	1	5	63	160	411	27	2,443	7,647
Subtotal forest products, wood and chips	35	0	---	0	6	0	27	1	0
4161 wood chips	6	---	---	---	6	---	---	---	---
4170 wood in the rough	28	---	---	---	---	---	27	1	---
4189 lumber	1	---	---	0	0	0	---	---	0
4190 forest products nec	0	0	---	0	0	---	---	---	0

ST. CLAIR RIVER, MI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports	Exports	Through Upbound	Through Downbnd	Imports	Exports	Through Upbound	Through Downbnd
Subtotal pulp and waste paper	30	—	—	3	26	—	—	0	—
4225 pulp & waste paper	30	—	—	3	26	—	—	0	—
Subtotal soil, sand, gravel, rock and stone	3,048	—	—	0	1	357	—	0	2,690
4322 limestone	2,196	—	—	—	—	—	—	—	2,196
4323 gypsum	36	—	—	—	1	—	—	—	35
4331 sand & gravel	815	—	—	0	0	357	—	0	458
Subtotal iron ore and scrap	6,268	—	—	—	0	—	—	1,697	4,571
4410 iron ore	6,221	—	—	—	—	—	—	1,697	4,524
4420 iron & steel scrap	47	—	—	—	0	—	—	—	47
Subtotal non-ferrous ores and scrap	103	0	5	28	8	—	—	61	—
4650 aluminum ore	72	—	5	28	0	—	—	39	—
4680 non-ferrous scrap	0	—	—	0	—	—	—	—	—
4690 non-ferrous ores nec	30	0	—	0	8	—	—	21	—
Subtotal sulphur, clay and salt	259	—	—	9	119	—	—	131	—
4782 clay & refrac. mat.	259	—	—	9	119	—	—	131	—
Subtotal slag	29	—	—	0	—	—	—	28	—
4860 slag	29	—	—	0	—	—	—	28	—
Subtotal other non-metal. min.	987	0	—	23	0	54	—	524	386
4900 non-metal. min. nec	987	0	—	23	0	54	—	524	386
Total primary manufactured goods	3,065	2	0	1,807	10	0	0	784	462
Subtotal paper products	1	0	0	0	1	—	0	0	—
5120 paper & paperboard	1	0	0	0	0	—	0	0	—
5190 paper products nec	0	0	0	0	0	—	—	0	—
Subtotal lime, cement and glass	1,104	0	0	2	1	—	—	666	435
5220 cement & concrete	1,051	0	—	—	—	—	—	616	435
5240 glass & glass prod.	1	0	—	0	0	—	—	—	—
5290 misc. mineral prod.	53	0	0	1	1	—	—	50	0
Subtotal primary iron and steel products	1,895	1	0	1,749	0	—	0	118	27
5312 pig iron	121	—	—	—	0	—	—	116	5
5315 ferro alloys	10	—	—	10	—	—	—	—	—
5320 i&s primary forms	576	—	0	555	0	—	—	—	21
5330 i&s plates & sheets	1,058	0	—	1,056	0	—	0	1	—
5360 i&s bars & shapes	84	0	—	83	0	—	—	—	—
5370 i&s pipe & tube	14	0	0	12	0	—	—	—	1
5390 primary i&s nec	33	0	—	33	0	—	—	—	—
Subtotal primary non-ferrous metal products	65	0	0	57	7	0	—	0	0
5421 copper	0	—	—	0	0	—	—	—	—
5422 aluminum	7	0	0	0	7	—	—	—	—
5429 smelted prod. nec	51	—	—	51	0	—	—	—	0
5480 fab. metal products	6	0	0	5	1	0	—	0	0
Subtotal primary wood products	0	—	—	—	0	—	—	—	—
5540 primary wood prod.	0	—	—	—	0	—	—	—	—
Total food and farm products	4,088	1	1	1	2,507	0	19	0	1,559
Subtotal fish	0	—	—	—	—	—	0	0	—
6134 fish (not shellfish)	0	—	—	—	—	—	0	0	—
Subtotal grain	2,877	—	—	0	1,839	—	—	—	1,038
6241 wheat	1,947	—	—	—	1,604	—	—	—	344
6344 corn	296	—	—	—	106	—	—	—	190
6442 rice	0	—	—	0	—	—	—	—	—

ST. CLAIR RIVER, MI
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports	Exports	Through		Imports	Exports	Through	
				Upbound	Downbnd			Upbound	Downbnd
6443 barley & rye	587	—	—	—	130	—	—	—	457
6445 oats	46	—	—	—	—	—	—	—	46
Subtotal	1,162	—	—	—	644	—	19	—	499
oilseeds									
6522 soybeans	1,129	—	—	—	611	—	19	—	499
6590 oilseeds nec	33	—	—	—	33	—	—	—	—
Subtotal	8	0	0	0	7	0	—	0	—
vegetable products									
6653 vegetable oils	0	0	0	0	0	—	—	—	—
6654 vegetables & prod.	7	0	—	0	7	0	—	0	—
Subtotal	21	0	0	0	0	—	—	0	21
processed grain and animal feed									
6747 grain mill products	0	0	—	0	0	—	—	—	—
6781 hay & fodder	0	—	—	—	0	—	—	—	—
6782 animal feed, prep.	21	0	0	—	0	—	—	0	21
Subtotal other agricultural products	21	1	0	1	17	0	—	0	2
6811 meat, fresh, frozen	1	—	0	—	0	—	—	—	0
6822 dairy products	0	—	—	—	0	—	—	—	—
6835 fish, prepared	0	0	—	0	—	—	—	—	—
6838 tallow, animal oils	15	—	—	—	15	—	—	—	—
6839 animals & prod. nec	1	—	0	0	1	—	—	—	—
6857 fruit & nuts nec	0	—	—	—	0	0	—	0	—
6858 fruit juices	2	—	—	0	—	—	—	—	2
6861 sugar	0	—	—	—	0	—	—	—	—
6871 coffee	0	0	—	—	0	—	—	—	—
6872 cocoa beans	0	—	—	0	—	—	—	—	—
6885 alcoholic beverages	1	1	—	0	—	0	—	—	0
6888 water & ice	0	0	—	—	—	—	—	—	—
6889 food products nec	1	—	0	0	0	—	—	0	0
6891 tobacco & products	0	0	—	0	0	—	—	—	—
6893 cotton	0	—	—	—	0	—	—	—	—
6899 farm products nec	0	0	—	0	—	—	—	—	—
Total all manufactured equipment, machinery and products	40	9	3	12	11	2	0	1	2
7110 machinery (not elec)	24	8	2	7	4	1	0	1	1
7120 electrical machinery	5	0	0	2	3	0	—	0	0
7210 vehicles & parts	2	0	0	1	0	1	—	0	0
7220 aircraft & parts	0	—	—	0	—	—	—	—	0
7230 ships & boats	0	—	0	0	0	0	—	—	0
7300 ordnance & access.	0	—	—	0	0	—	—	—	—
7400 manufac. wood prod.	0	0	—	0	0	—	—	—	0
7500 textile products	2	0	0	0	0	0	—	0	1
7600 rubber & plastic pr.	1	0	0	0	0	0	—	0	0
7900 manufac. prod. nec	6	0	0	1	3	0	—	0	0
Total unknown or not elsewhere classified	1	0	—	0	0	1	—	0	0
9900 unknown or nec	1	0	—	0	0	1	—	0	0
Ton-miles Foreign & Canadian (x1000)	952,595	522	472	73,793	108,083	3,699	1,631	311,394	453,002

ST. CLAIR RIVER, MI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Domestic				
		Receipts	Lakewise		Internal	
			Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	54,991	10,907	5,197	38,854	8	25
Total coal	15,325	8,886	4,500	1,939	—	—
1100 coal lignite	15,234	8,886	4,500	1,848	—	—
1200 coal coke	91	—	—	91	—	—
Total petroleum and petroleum products	536	37	63	403	8	25
Subtotal petroleum products	536	37	63	403	8	25
2211 gasoline	34	—	34	—	—	—
2330 distillate fuel oil	30	30	—	—	—	—
2340 residual fuel oil	49	8	15	14	—	13
2430 asphalt, tar & pitch	313	—	9	291	8	5
2540 petroleum coke	111	—	5	98	—	7
Total crude materials, inedible except fuels	37,934	1,982	625	35,326	—	—
Subtotal soil, sand, gravel, rock and stone	11,538	1,958	37	9,543	—	—
4322 limestone	10,601	1,958	37	8,606	—	—
4323 gypsum	751	—	—	751	—	—
4331 sand & gravel	186	—	—	186	—	—
Subtotal iron ore and scrap	25,758	—	39	25,719	—	—
4410 iron ore	25,703	—	39	25,664	—	—
4420 iron & steel scrap	55	—	—	55	—	—
Subtotal slag	335	—	271	64	—	—
4860 slag	335	—	271	64	—	—
Subtotal other non-metal. min.	303	25	278	—	—	—
4900 non-metal. min. nec	303	25	278	—	—	—
Total primary manufactured goods	761	—	8	753	—	—
Subtotal lime, cement and glass	761	—	8	753	—	—
5220 cement & concrete	761	—	8	753	—	—
Total food and farm products	434	1	—	433	—	—
Subtotal grain	433	—	—	433	—	—
6241 wheat	413	—	—	413	—	—
6445 oats	20	—	—	20	—	—
Subtotal other agricultural products	1	1	—	—	—	—
6861 sugar	1	1	—	—	—	—
Ton-miles (x1000)	1,903,424	184,161	202,679	1,515,295	295	993
Domestic						
Tons All Traffic (x1000)	79,777					
Ton-miles All Traffic (x1000)	2,856,018					

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
1988	955	1991	1,609	1994	839	1997	588
1989	1,034	1992	1,652	1995	488		
1990	1,429	1993	1,687	1996	581		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic
		Imports	Exports	Imports	Exports	Lakewise Receipts
Total, all commodities	588	14	13	201	28	332
Total petroleum and petroleum products	0	—	0	0	—	—
Subtotal petroleum products	0	—	0	0	—	—
2350 lube oil & greases	0	—	0	—	—	—
2540 petroleum coke	0	—	—	0	—	—
2640 liquid natural gas	0	—	—	0	—	—
Total chemicals and related products	41	1	4	36	0	—
Subtotal fertilizers	25	—	—	25	—	—
3110 nitrogenous fert.	25	—	—	25	—	—
Subtotal other chemicals and related products	16	1	4	11	0	—
3219 other hydrocarbons	0	0	—	—	—	—
3220 alcohols	0	0	—	—	—	—
3230 carboxylic acids	0	0	—	—	—	—
3240 nitrogen func. comp.	4	0	0	3	—	—
3250 organo-inorganic comp.	0	0	0	—	0	—
3260 organic comp. nec	1	0	1	—	—	—

PORT HURON, MI (INCLUDED IN ST. CLAIR RIVER)
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic
		Imports	Exports	Imports	Exports	Lakewise Receipts
3273 ammonia	1	—	—	1	—	—
3275 inorg. elem., oxides, & halogen salts	6	0	—	6	—	—
3276 metallic salts	0	0	—	—	—	—
3281 radioactive material	0	0	—	—	—	—
3282 pigments & paints	1	0	0	0	—	—
3283 coloring mat. nec	0	0	—	—	—	—
3284 medicines	0	0	0	—	—	—
3285 perfumes & cleansers	1	0	1	0	—	—
3286 plastics	1	0	1	0	—	—
3291 pesticides	0	—	0	—	—	—
3292 starches, gluten, glue	0	0	0	—	—	—
3297 chemical additives	0	0	0	0	—	—
3299 chem. products nec	0	0	0	—	—	—
Total crude materials, inedible except fuels	528	1	5	163	27	332
Subtotal forest products, wood and chips	28	0	—	0	27	—
4170 wood in the rough	27	—	—	—	27	—
4189 lumber	0	—	—	0	—	—
4190 forest products nec	0	0	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	494	—	—	162	—	332
4322 limestone	332	—	—	—	—	332
4331 sand & gravel	162	—	—	162	—	—
Subtotal non-ferrous ores and scrap	6	0	5	—	—	—
4650 aluminum ore	5	—	5	—	—	—
4690 non-ferrous ores nec	0	0	—	—	—	—
Subtotal other non-metal. min.	0	0	—	—	—	—
4900 non-metal. min. nec	0	0	—	—	—	—
Total primary manufactured goods	2	2	0	0	0	—
Subtotal paper products	0	0	0	—	0	—
5120 paper & paperboard	0	0	0	—	0	—
5190 paper products nec	0	0	0	—	—	—
Subtotal lime, cement and glass	0	0	0	—	—	—
5220 cement & concrete	0	—	—	—	—	—
5240 glass & glass prod.	0	0	—	—	—	—
5290 misc. mineral prod.	0	0	0	—	—	—
Subtotal primary iron and steel products	1	1	0	—	0	—
5320 i&s primary forms	0	—	0	—	—	—
5330 i&s plates & sheets	0	0	—	—	0	—
5360 i&s bars & shapes	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	0	0	—	—
5422 aluminum	0	0	0	—	—	—
5480 fab. metal products	0	0	0	0	—	—
Total food and farm products	2	1	1	0	0	—
Subtotal fish	0	—	—	—	0	—
6134 fish (not shellfish)	0	—	—	—	0	—
Subtotal vegetable products	1	0	0	0	—	—
6653 vegetable oils	0	0	0	—	—	—
6654 vegetables & prod.	0	0	—	0	—	—
Subtotal processed grain and animal feed	0	0	0	—	—	—
6747 grain mill products	0	0	—	—	—	—
6782 animal feed, prep.	0	0	0	—	—	—
Subtotal other agricultural products	1	1	0	0	—	—
6811 meat, fresh, frozen	0	—	0	—	—	—
6835 fish, prepared	0	0	—	—	—	—
6839 animals & prod. nec	0	—	0	—	—	—
6857 fruit & nuts nec	0	—	—	0	—	—
6871 coffee	0	0	—	—	—	—
6885 alcoholic beverages	1	1	—	0	—	—
6888 water & ice	0	0	—	—	—	—
6889 food products nec	0	—	0	—	—	—
6891 tobacco & products	0	0	—	—	—	—
6899 farm products nec	0	0	—	—	—	—
Total all manufactured equipment, machinery and products	13	9	3	2	0	—
7110 machinery (not elec)	11	8	2	1	0	—
7120 electrical machinery	0	0	0	0	—	—
7210 vehicles & parts	1	0	0	1	—	—
7230 ships & boats	0	—	0	0	—	—
7400 manufac. wood prod.	0	0	—	—	—	—
7500 textile products	0	0	0	0	—	—
7600 rubber & plastic pr.	0	0	0	0	—	—
7900 manufac. prod. nec	0	0	0	0	—	—
Total unknown or not elsewhere classified	1	0	—	1	—	—
9900 unknown or nec	1	0	—	1	—	—

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
1988	221	1991	518	1994	1,175	1997	1,142
1989	559	1992	640	1995	889		
1990	615	1993	736	1996	1,068		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian		Domestic
		Imports	Exports	Lakewise Receipts
Total, all commodities	1,142	248	19	875
Total coal	76	—	—	76
1100 coal lignite	76	—	—	76
Total petroleum and petroleum products	2	—	—	2
Subtotal petroleum products	2	—	—	2
2340 residual fuel oil	2	—	—	2
Total crude materials, inedible except fuels	1,044	248	—	796
Subtotal soil, sand, gravel, rock and stone	969	195	—	774
4322 limestone	774	—	—	774
4331 sand & gravel	195	195	—	—
Subtotal other non-metal. min.	75	54	—	22
4900 non-metal. min. nec	75	54	—	22
Total food and farm products	20	—	19	1
Subtotal oilseeds	19	—	19	—
6522 soybeans	19	—	19	—
Subtotal other agricultural products	1	—	—	1
6861 sugar	1	—	—	1

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
1988	8,212	1991	4,778	1994	5,887	1997	5,699
1989	5,756	1992	4,666	1995	5,028		
1990	4,889	1993	5,039	1996	5,427		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Lakewise Receipts
Total, all commodities	5,699	5,699
Total coal	5,664	5,664
1100 coal lignite	5,664	5,664
Total petroleum and petroleum products	36	36
Subtotal petroleum products	36	36
2330 distillate fuel oil	30	30
2340 residual fuel oil	6	6

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
1988	383	1991	3,896	1994	3,572	1997	4,001
1989	328	1992	3,174	1995	3,850		
1990	4,497	1993	3,454	1996	4,116		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Lakewise Receipts
Total, all commodities	4,001	4,001
Total coal	3,147	3,147
1100 coal lignite	3,147	3,147
Total crude materials, inedible except fuels	854	854
Subtotal soil, sand, gravel, rock and stone	852	852
4322 limestone	852	852
Subtotal other non-metal. min.	3	3
4900 non-metal. min. nec	3	3

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
1988	66,198	1991	54,232	1994	63,963	1997	68,211
1989	69,851	1992	58,131	1995	68,555		
1990	64,034	1993	56,982	1996	67,111		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign Through		Canadian Through	
		Upbound	Downbnd	Upbound	Downbnd
		Total, all commodities	23,662	1,906	2,784
Total coal	5,669	—	28	4,348	1,293
1100 coal lignite	5,499	—	—	4,255	1,245
1200 coal coke	170	—	28	93	48
Total petroleum and petroleum products	709	0	36	210	464
Subtotal petroleum products	709	0	36	210	464
2211 gasoline	38	0	—	—	37
2330 distillate fuel oil	7	—	—	—	7
2340 residual fuel oil	83	—	0	17	66
2350 lube oil & greases	28	0	0	1	27
2429 naphtha & solvents	0	—	—	0	—
2430 asphalt, tar & pitch	119	—	—	42	77
2540 petroleum coke	434	0	36	150	249
Total chemicals and related products	274	10	23	74	167
Subtotal fertilizers	157	—	0	7	150
3110 nitrogenous fert.	33	—	—	—	33
3120 phosphatic fert.	0	—	—	0	—
3130 potassic fert.	123	—	—	7	116
3190 fert. & mixes nec	0	—	0	—	—
Subtotal other chemicals and related products	117	10	23	67	17
3212 benzene & toluene	7	—	—	7	—
3219 other hydrocarbons	7	6	1	—	—
3220 alcohols	18	0	2	—	16
3230 carboxylic acids	2	2	0	0	—
3240 nitrogen func. comp.	1	0	0	0	0
3250 organo-inorganic comp.	1	0	1	—	—
3260 organic comp. nec	2	0	2	0	0
3273 ammonia	0	—	—	—	0
3274 sodium hydroxide	32	—	—	32	—
3275 inorg. elem., oxides, & halogen salts	7	0	1	5	1
3276 metallic salts	23	0	0	23	—
3279 inorganic chem. nec	0	0	—	—	—
3281 radioactive material	0	0	—	—	—
3282 pigments & paints	1	0	0	—	0
3283 coloring mat. nec	0	0	0	—	—
3284 medicines	4	0	3	0	—
3285 perfumes & cleansers	2	0	2	0	0
3286 plastics	3	0	3	—	0
3291 pesticides	0	—	0	—	—

CHANNELS IN LAKE ST. CLAIR
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign Through		Canadian Through		
		Upbound	Downbnd	Upbound	Downbnd	
		3292	starches, gluten, glue	7	0	6
3297	chemical additives	0	0	0	—	—
3298	wood & resin chem.	0	—	0	—	—
3299	chem. products nec	1	0	1	0	0
Total crude materials, inedible except fuels		9,839	64	166	2,414	7,195
Subtotal forest products, wood and chips		7	0	6	1	0
4161	wood chips	6	—	6	—	—
4170	wood in the rough	1	—	—	1	—
4189	lumber	0	0	0	—	0
4190	forest products nec	0	0	0	—	0
Subtotal pulp and waste paper		30	3	26	0	—
4225	pulp & waste paper	30	3	26	0	—
Subtotal soil, sand, gravel, rock and stone		2,239	0	1	0	2,239
4322	limestone	1,745	—	—	—	1,745
4323	gypsum	36	—	1	—	35
4331	sand & gravel	458	0	0	0	458
Subtotal iron ore and scrap		6,268	—	0	1,697	4,571
4410	iron ore	6,221	—	—	1,697	4,524
4420	iron & steel scrap	47	—	0	—	47
Subtotal non-ferrous ores and scrap		103	28	14	61	—
4650	aluminum ore	72	28	5	39	—
4680	non-ferrous scrap	0	0	—	—	—
4690	non-ferrous ores nec	30	0	8	21	—
Subtotal sulphur, clay and salt		259	9	119	131	—
4782	clay & refrac. mat.	259	9	119	131	—
Subtotal slag		29	0	—	28	—
4860	slag	29	0	—	28	—
Subtotal other non-metal. min.		905	23	0	496	386
4900	non-metal. min. nec	905	23	0	496	386
Total primary manufactured goods		3,064	1,809	10	783	462
Subtotal paper products		1	0	1	0	—
5120	paper & paperboard	1	0	0	0	—
5190	paper products nec	0	0	0	0	—
Subtotal lime, cement and glass		1,104	2	1	666	435
5220	cement & concrete	1,051	0	—	616	435
5240	glass & glass prod.	1	0	0	—	—
5290	misc. mineral prod.	53	2	1	50	0
Subtotal primary iron and steel products		1,893	1,750	0	116	27
5312	pig iron	121	—	0	116	5
5315	ferro alloys	10	10	—	—	—
5320	i&s primary forms	576	555	0	—	—
5330	i&s plates & sheets	1,057	1,057	0	0	21
5360	i&s bars & shapes	84	83	0	—	—
5370	i&s pipe & tube	14	12	0	—	1
5390	primary i&s nec	33	33	0	—	—
Subtotal primary non-ferrous metal products		65	57	8	0	0
5421	copper	0	0	0	—	—
5422	aluminum	7	1	7	—	—
5429	smelted prod. nec	51	51	0	—	0
5480	fab. metal products	6	5	1	0	0
Subtotal primary wood products		0	—	0	—	—
5540	primary wood prod.	0	—	0	—	—
Total food and farm products		4,069	2	2,508	0	1,559
Subtotal fish		0	—	—	0	—
6134	fish (not shellfish)	0	—	—	0	—
Subtotal grain		2,877	0	1,839	—	1,038
6241	wheat	1,947	—	1,604	—	344
6344	corn	296	—	106	—	190
6442	rice	0	0	—	—	—
6443	barley & rye	587	—	130	—	457
6445	oats	46	—	—	—	46
Subtotal oilseeds		1,143	—	644	—	499
6522	soybeans	1,110	—	611	—	499
6590	oilseeds nec	33	—	33	—	—
Subtotal vegetable products		7	0	7	0	—
6653	vegetable oils	0	0	0	—	—
6654	vegetables & prod.	7	0	7	0	—
Subtotal processed grain and animal feed		21	0	0	0	21
6747	grain mill products	0	0	0	—	—
6781	hay & fodder	0	—	0	—	—
6782	animal feed, prep.	21	0	0	0	21
Subtotal other agricultural products		21	1	17	0	2
6811	meat, fresh, frozen	1	—	1	—	0
6822	dairy products	0	—	0	—	—
6835	fish, prepared	0	0	—	—	—
6838	tallow, animal oils	15	—	15	—	—
6839	animals & prod. nec	1	0	1	—	—
6857	fruit & nuts nec	0	—	0	—	—
6858	fruit juices	2	0	—	—	2
6861	sugar	0	—	0	—	—
6871	coffee	0	0	0	—	—
6872	cocoa beans	0	0	—	—	—
6885	alcoholic beverages	1	1	—	—	0
6888	water & ice	0	0	—	—	—
6889	food products nec	1	0	0	0	0
6891	tobacco & products	0	0	0	—	—
6893	cotton	0	—	0	—	—
6899	farm products nec	0	0	—	—	—

CHANNELS IN LAKE ST. CLAIR
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Through		Through	
		Upbound	Downbnd	Upbound	Downbnd
Total all manufactured equipment, machinery and products	39	21	14	1	2
7110 machinery (not elec)	23	16	6	1	1
7120 electrical machinery	5	2	3	0	0
7210 vehicles & parts	2	1	0	0	0
7220 aircraft & parts	0	0	—	—	0
7230 ships & boats	0	0	0	—	0
7300 ordnance & access.	0	0	0	—	0
7400 manufac. wood prod.	0	0	0	—	0
7500 textile products	2	1	0	0	1
7600 rubber & plastic pr.	1	0	1	0	0
7900 manufac. prod. nec	6	2	4	0	0
Total unknown or not elsewhere classified	1	0	0	0	0
9900 unknown or nec	1	0	0	0	0
Ton-miles (x1000) Foreign & Canadian	425,922	34,312	50,114	140,946	200,550

Commodity	Total	Domestic			
		Lakewise		Internal	
		Through		Through	
		Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	44,548	5,662	38,854	8	25
Total coal	6,644	4,705	1,939	—	—
1100 coal lignite	6,553	4,705	1,848	—	—
1200 coal coke	91	—	91	—	—
Total petroleum and petroleum products	536	100	403	8	25
Subtotal petroleum products	536	100	403	8	25
2211 gasoline	34	34	—	—	—
2330 distillate fuel oil	30	30	—	—	—
2340 residual fuel oil	49	22	14	—	13
2430 asphalt, tar & pitch	313	9	291	8	5
2540 petroleum coke	111	5	98	—	7
Total crude materials, inedible except fuels	36,173	847	35,326	—	—
Subtotal soil, sand, gravel, rock and stone	9,777	234	9,543	—	—
4322 limestone	8,840	234	8,606	—	—
4323 gypsum	751	—	751	—	—
4331 sand & gravel	186	—	186	—	—
Subtotal iron ore and scrap	25,758	39	25,719	—	—
4410 iron ore	25,703	39	25,664	—	—
4420 iron & steel scrap	55	—	55	—	—
Subtotal slag	335	271	64	—	—
4860 slag	335	271	64	—	—
Subtotal other non-metal. min.	303	303	—	—	—
4900 non-metal. min. nec	303	303	—	—	—
Total primary manufactured goods	761	8	753	—	—
Subtotal lime, cement and glass	761	8	753	—	—
5220 cement & concrete	761	8	753	—	—
Total food and farm products	434	1	433	—	—
Subtotal grain	433	—	433	—	—
6241 wheat	413	—	413	—	—
6445 oats	20	—	20	—	—
Subtotal other agricultural products	1	1	—	—	—
6861 sugar	1	1	—	—	—
Ton-miles (x1000) Domestic	801,871	101,910	699,367	136	459
Tons All Traffic (x1000)					68,211
Ton-miles All Traffic (x1000)					1,227,794

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
1988	71,502	1991	57,894	1994	72,027	1997	75,939
1989	75,662	1992	63,134	1995	73,502		
1990	69,635	1993	62,662	1996	75,023		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports	Through		Imports	Exports*	Through	
				Upbound	Downbnd			Upbound	Downbnd
Total, all commodities	29,091	996	283	1,906	2,784	4,618	218	8,085	10,201
Total coal	5,758	—	1	—	28	331	89	4,348	961
1100 coal lignite	5,500	—	1	—	—	320	—	4,255	924
1200 coal coke	258	—	—	—	28	11	89	93	37
Total petroleum and petroleum products	800	1	1	0	36	98	68	210	388
Subtotal crude petroleum	1	1	—	—	—	—	—	—	—
2100 crude petroleum	1	1	—	—	—	—	—	—	—
Subtotal petroleum products	800	—	1	0	36	98	68	210	388
2211 gasoline	38	—	—	0	—	7	—	—	30
2330 distillate fuel oil	7	—	—	—	—	7	—	—	0
2340 residual fuel oil	121	—	—	—	0	36	23	17	45
2350 lube oil & greases	72	—	0	0	0	10	43	1	17
2410 petro. jelly & waxes	0	—	0	—	—	—	—	—	—
2429 naphtha & solvents	0	—	0	—	—	—	—	0	—
2430 asphalt, tar & pitch	120	—	—	—	—	6	1	42	72
2540 petroleum coke	441	—	0	0	36	32	—	150	224
Total chemicals and related products	403	4	61	10	23	29	0	74	202
Subtotal fertilizers	162	—	5	—	0	24	—	7	125
3110 nitrogenous fert.	33	—	—	—	—	24	—	—	9
3120 phosphatic fert.	0	—	—	—	—	—	—	0	—
3130 potassic fert.	123	—	—	—	—	—	—	7	116
3190 fert. & mixes nec	5	—	5	—	0	—	—	—	—
Subtotal other chemicals and related products	241	4	56	10	23	5	0	67	77
3211 acyclic hydrocarbons	0	0	0	—	—	—	—	—	—
3212 benzene & toluene	7	—	0	—	—	—	—	7	—
3219 other hydrocarbons	13	—	6	6	1	—	—	—	—
3220 alcohols	18	0	1	0	2	—	—	—	16
3230 carboxylic acids	7	1	4	2	0	—	—	0	—
3240 nitrogen func. comp.	7	1	5	0	0	0	—	0	0
3250 organo-inorg anic comp.	3	0	2	0	1	—	—	—	—
3260 organic comp. nec	4	0	1	0	2	—	—	0	0
3273 ammonia	0	—	—	—	—	0	—	—	0
3274 sodium hydroxide	32	0	0	—	—	0	—	32	—
3275 inorg. elem., oxides, & halogen salts	8	0	1	0	1	0	—	5	1
3276 metallic salts	84	0	0	0	0	0	—	23	60
3279 inorganic chem. nec	0	0	—	0	—	—	—	—	—
3281 radioactive material	0	—	0	0	—	—	—	—	—
3282 pigments & paints	7	0	3	0	0	4	—	—	—

DETROIT RIVER, MI
Freight Traffic, 1997 - 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	5	0	1	0	3	—	—	0	—
3285 perfumes & cleansers	16	0	14	0	2	0	—	0	0
3286 plastics	14	1	9	0	3	0	0	—	0
3291 pesticides	0	0	0	—	0	—	—	—	—
3292 starches, gluten, glue	9	0	1	0	6	0	—	—	—
3297 chemical additives	4	1	3	0	0	0	—	—	—
3298 wood & resin chem.	0	—	0	—	0	—	—	—	—
3299 chem. products nec	3	0	2	0	1	0	—	0	—
Total crude materials, inedible except fuels	13,304	0	55	64	166	3,292	2	2,669	7,057
Subtotal forest products, wood and chips	144	0	8	0	6	129	2	—	0
4110 rubber & gums	0	—	0	—	—	—	—	—	—
4150 fuel wood	0	—	0	—	—	—	—	—	—
4161 wood chips	13	—	7	—	6	—	—	—	—
4170 wood in the rough	2	—	0	—	—	—	2	—	—
4189 lumber	129	0	0	0	0	129	—	—	0
4190 forest products nec	0	0	—	0	0	—	—	—	0
Subtotal pulp and waste paper	33	—	4	3	26	—	—	0	—
4225 pulp & waste paper	33	—	4	3	26	—	—	0	—
Subtotal soil, sand, gravel, rock and stone	2,562	0	1	0	1	207	—	256	2,097
4322 limestone	2,001	—	—	—	—	—	—	256	1,745
4323 gypsum	37	—	1	—	1	—	—	—	35
4331 sand & gravel	524	0	0	0	0	207	—	0	317
Subtotal iron ore and scrap	8,716	—	0	—	0	2,448	—	1,697	4,571
4410 iron ore	8,643	—	—	—	—	2,422	—	1,697	4,524
4420 iron & steel scrap	73	—	0	—	0	26	—	—	47
Subtotal non-ferrous ores and scrap	104	0	1	28	14	—	—	61	—
4650 aluminum ore	73	0	0	28	5	—	—	39	—
4680 non-ferrous scrap	0	0	—	0	—	—	—	—	—
4690 non-ferrous ores nec	31	—	0	0	8	—	—	21	—
Subtotal sulphur, clay and salt	300	0	41	9	119	0	—	131	—
4782 clay & refrac. mat.	300	0	41	9	119	0	—	131	—
Subtotal slag	34	0	—	0	—	6	—	28	—
4860 slag	34	0	—	0	—	6	—	28	—
Subtotal other non-metal. min.	1,411	—	0	23	0	503	—	496	389
4900 non-metal. min. nec	1,411	—	0	23	0	503	—	496	389
Total primary manufactured goods	4,568	974	51	1,809	10	862	49	783	31
Subtotal paper products	8	0	6	0	1	0	—	0	0
5120 paper & paperboard	7	0	5	0	0	0	—	0	0
5190 paper products nec	2	0	1	0	0	—	—	0	—
Subtotal lime, cement and glass	1,473	3	6	2	1	765	28	666	3
5220 cement & concrete	1,412	—	—	0	—	765	28	616	3
5240 glass & glass prod.	2	0	1	0	0	0	—	—	—
5290 misc. mineral prod.	60	2	5	2	1	0	—	50	0
Subtotal primary iron and steel products	2,997	967	29	1,750	0	87	21	116	27
5312 pig iron	208	0	0	—	0	87	—	116	5
5315 ferro alloys	20	10	—	10	—	—	—	—	—
5320 i&s primary forms	625	28	0	555	0	—	21	—	21

DETROIT RIVER, MI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports	Through		Imports	Exports*	Through	
				Upbound	Downbnd			Upbound	Downbnd
5330 i&s plates & sheets	1,935	854	25	1,057	0	0	0	—	
5360 i&s bars & shapes	156	72	0	83	0	—	—	—	
5370 i&s pipe & tube	18	1	3	12	0	—	—	1	
5390 primary i&s nec	36	2	0	33	0	—	—	—	
Subtotal	84	3	6	57	8	11	—	0	
primary non-ferrous metal products									
5421 copper	0	0	0	0	0	—	—	—	
5422 aluminum	20	1	1	1	7	10	—	—	
5429 smelted prod. nec	52	0	0	51	0	0	—	0	
5480 fab. metal products	12	2	4	5	1	0	—	0	
Subtotal	5	0	4	—	0	—	—	—	
primary wood products									
5540 primary wood prod.	5	0	4	—	0	—	—	—	
Total food and farm products	4,123	2	41	2	2,508	1	10	0	
Subtotal fish	0	—	—	—	—	—	—	0	
6134 fish (not shellfish)	0	—	—	—	—	—	—	0	
6136 shellfish	0	—	—	—	—	—	—	0	
Subtotal grain	2,892	—	5	0	1,839	—	10	1,038	
6241 wheat	1,947	—	—	—	1,604	—	—	344	
6344 corn	312	—	5	—	106	—	10	190	
6442 rice	0	—	—	0	—	—	—	—	
6443 barley & rye	587	—	0	—	130	—	—	457	
6445 oats	46	—	0	—	—	—	—	46	
6447 sorghum grains	0	—	0	—	—	—	—	—	
Subtotal	1,146	—	4	—	644	0	—	499	
oilseeds									
6522 soybeans	1,113	—	3	—	611	—	—	499	
6590 oilseeds nec	33	—	0	—	33	0	—	—	
Subtotal	16	0	7	0	7	0	—	0	
vegetable products									
6653 vegetable oils	2	0	1	0	0	—	—	—	
6654 vegetables & prod.	14	0	6	0	7	0	—	0	
Subtotal	29	0	7	0	0	0	—	21	
processed grain and animal feed									
6746 wheat flour	0	—	0	—	—	—	—	—	
6747 grain mill products	1	0	0	0	0	—	—	—	
6781 hay & fodder	0	—	—	—	0	—	—	—	
6782 animal feed, prep.	28	0	7	0	0	0	—	21	
Subtotal other agricultural products	40	1	17	1	17	0	—	2	
6811 meat, fresh, frozen	2	0	1	—	1	—	—	0	
6817 meat, prepared	0	—	0	—	—	—	—	—	
6822 dairy products	0	0	0	—	0	0	—	—	
6835 fish, prepared	0	0	0	0	—	—	—	0	
6838 tallow, animal oils	15	—	—	—	15	—	—	—	
6839 animals & prod. nec	4	0	3	0	1	—	—	0	
6857 fruit & nuts nec	3	—	3	—	0	—	0	—	
6858 fruit juices	5	0	3	0	—	0	—	2	
6861 sugar	0	—	—	—	0	—	—	—	
6871 coffee	0	0	0	0	0	—	—	—	
6872 cocoa beans	0	0	—	0	—	—	—	—	
6885 alcoholic beverages	2	0	1	1	—	0	—	0	
6888 water & ice	1	0	0	0	—	—	—	—	
6889 food products nec	6	0	6	0	0	0	—	0	
6891 tobacco & products	0	—	—	0	0	—	—	—	
6893 cotton	0	—	—	—	0	—	—	—	
6894 natural fibers nec	0	—	0	—	—	—	—	—	
6899 farm products nec	1	0	1	0	—	—	—	—	

DETROIT RIVER, MI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign				Canadian			
		Imports*	Exports	Through		Imports	Exports*	Through	
				Upbound	Downbnd			Upbound	Downbnd
Total all manufactured equipment, machinery and products	130	15	74	21	14	3	0	1	2
7110 machinery (not elec)	52	9	18	16	6	2	0	1	0
7120 electrical machinery	10	1	4	2	3	0	0	0	0
7210 vehicles & parts	39	2	34	1	0	1	0	0	0
7220 aircraft & parts	0	0	0	0	—	—	—	—	0
7230 ships & boats	0	0	0	0	0	0	0	—	0
7300 ordnance & access.	0	0	0	0	0	—	—	—	—
7400 manufac. wood prod.	1	0	0	0	0	—	—	—	0
7500 textile products	4	1	2	1	0	0	—	0	1
7600 rubber & plastic pr.	11	0	9	0	1	0	0	0	0
7900 manufac. prod. nec	14	3	6	2	4	0	—	0	0
Total unknown or not elsewhere classified	4	0	0	0	0	3	—	0	0
9900 unknown or nec	4	0	0	0	0	3	—	0	0
Ton-miles Foreign & Canadian (x1000)	825,515	22,743	6,810	59,093	86,307	79,125	4,573	250,644	316,221

Commodity	Total	Lakewise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Total, all commodities	46,638	11,363	462	5,583	29,230
Total coal	8,193	1,549	—	4,705	1,939
1100 coal lignite	8,102	1,549	—	4,705	1,848
1200 coal coke	91	—	—	—	91
Total petroleum and petroleum products	892	134	440	43	275
Subtotal petroleum products	892	134	440	43	275
2211 gasoline	34	—	—	34	—
2330 distillate fuel oil	30	—	30	—	—
2340 residual fuel oil	72	19	47	6	—
2430 asphalt, tar & pitch	653	68	359	3	223
2540 petroleum coke	103	47	5	—	51
Total crude materials, inedible except fuels	36,355	9,214	21	825	26,295
Subtotal soil, sand, gravel, rock and stone	9,787	3,142	—	234	6,411
4322 limestone	8,850	2,813	—	234	5,803
4323 gypsum	751	329	—	—	422
4331 sand & gravel	186	—	—	—	186
Subtotal iron ore and scrap	25,758	5,836	21	17	19,884
4410 iron ore	25,703	5,836	21	17	19,829
4420 iron & steel scrap	55	—	—	—	55
Subtotal slag	358	86	—	271	—
4860 slag	358	86	—	271	—
Subtotal other non-metal. min.	453	150	—	303	—
4900 non-metal. min. nec	453	150	—	303	—
Total primary manufactured goods	764	467	—	8	289
Subtotal lime, cement and glass	764	467	—	8	289
5220 cement & concrete	764	467	—	8	289
Total food and farm products	434	—	—	1	433
Subtotal grain	433	—	—	—	433
6241 wheat	413	—	—	—	413
6445 oats	20	—	—	—	20
Subtotal other agricultural products	1	—	—	1	—
6861 sugar	1	—	—	1	—
Ton-miles (x1000)	1,310,120	222,642	8,268	173,075	906,135
Lakewise					

DETROIT RIVER, MI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Internal				
		Inbound Downbnd	Outbound Upbound	Through Downbnd	Intra Upbound	Downbnd
Total, all commodities	210	11	8	14	78	100
Total petroleum and petroleum products	210	11	8	14	78	100
Subtotal petroleum products	210	11	8	14	78	100
2330 distillate fuel oil	3	—	—	—	3	—
2340 residual fuel oil	20	9	—	4	4	3
2430 asphalt, tar & pitch	180	—	8	5	71	97
2540 petroleum coke	7	2	—	5	—	—
Ton-miles (x1000)	3,011	156	83	437	462	1,873
Internal						
Tons All Traffic (x1000)	75,939					
Ton-miles All Traffic (x1000)	2,138,647					

*Includes 7 (x1000) tons of foreign inbound in-transits; Includes 4 (x1000) tons of Canadian outbound 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
1988	5,677	1991	5,526	1994	7,501	1997	5,689
1989	9,900	1992	7,194	1995	5,284		
1990	7,553	1993	8,083	1996	8,224		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports*
Total, all commodities	4,630	725	251	3,489	165
Total coal	415	—	1	326	89
1100 coal lignite	321	—	1	320	—
1200 coal coke	94	—	—	6	89
Total petroleum and petroleum products	89	1	1	65	23
Subtotal crude petroleum	1	1	—	—	—
2100 crude petroleum	1	1	—	—	—
Subtotal petroleum products	88	—	1	65	23
2211 gasoline	7	—	—	7	—
2330 distillate fuel oil	5	—	—	5	—
2340 residual fuel oil	36	—	—	21	15
2350 lube oil & greases	8	—	0	0	7
2410 petro. jelly & waxes	0	—	0	—	—
2429 naphtha & solvents	0	—	0	—	—
2430 asphalt, tar & pitch	4	—	—	4	—
2540 petroleum coke	28	—	0	28	—
Total chemicals and related products	93	4	61	27	0
Subtotal fertilizers	29	—	5	24	—
3110 nitrogenous fert.	24	—	5	24	—
3190 fert. & mixes nec	5	—	—	—	—
Subtotal other chemicals and related products	63	4	56	3	0
3211 acyclic hydrocarbons	0	0	0	—	—
3212 benzene & toluene	0	—	0	—	—
3219 other hydrocarbons	6	—	6	—	—
3220 alcohols	1	0	1	—	—
3230 carboxylic acids	5	1	4	—	—
3240 nitrogen func. comp.	6	1	5	0	—
3250 organo-inorganic comp.	2	0	2	—	—
3260 organic comp. nec	2	0	1	—	—
3273 ammonia	0	—	—	0	—
3274 sodium hydroxide	0	0	0	0	—
3275 inorg. elem., oxides, & halogen salts	1	0	1	0	—
3276 metallic salts	1	0	0	0	—
3279 inorganic chem. nec	0	0	—	—	—
3281 radioactive material	0	—	0	—	—
3282 pigments & paints	6	0	3	3	—
3283 coloring mat. nec	0	0	0	0	—
3284 medicines	1	0	1	—	—
3285 perfumes & cleansers	14	0	14	0	—
3286 plastics	11	1	9	0	0
3291 pesticides	0	0	0	—	—
3292 starches, gluten, glue	2	0	1	0	—
3297 chemical additives	4	1	3	0	0
3298 wood & resin chem.	0	—	—	—	—
3299 chem. products nec	3	0	2	0	—
Total crude materials, inedible except fuels	2,383	0	48	2,334	1
Subtotal forest products, wood and chips	119	0	8	110	1
4110 rubber & gums	0	—	0	—	—
4150 fuel wood	0	—	0	—	—

DETROIT HARBOR, MI (INCLUDED IN PORT OF DETROIT)
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports*
4161 wood chips	7	—	7	—	—
4170 wood in the rough	1	—	0	—	1
4189 lumber	110	0	0	110	—
4190 forest products nec	0	0	—	—	—
Subtotal pulp and waste paper	4	—	4	—	—
4225 pulp & waste paper	4	—	4	—	—
Subtotal soil, sand, gravel, rock and stone	93	0	1	92	—
4323 gypsum	1	—	1	—	—
4331 sand & gravel	92	0	0	92	—
Subtotal iron ore and scrap	1,925	—	0	1,925	—
4410 iron ore	1,899	—	—	1,899	—
4420 iron & steel scrap	26	—	0	26	—
Subtotal non-ferrous ores and scrap	1	0	1	—	—
4650 aluminum ore	0	0	0	—	—
4680 non-ferrous scrap	0	0	—	—	—
4690 non-ferrous ores nec	0	—	0	—	—
Subtotal sulphur, clay and salt	34	0	34	0	—
4782 clay & refrac. mat.	34	0	34	0	—
Subtotal slag	6	0	—	6	—
4860 slag	6	0	—	6	—
Subtotal other non-metal. min.	202	—	0	201	—
4900 non-metal. min. nec	202	—	0	201	—
Total primary manufactured goods	1,512	704	27	733	49
Subtotal paper products	7	0	6	0	—
5120 paper & paperboard	5	0	5	0	—
5190 paper products nec	1	0	1	—	—
Subtotal lime, cement and glass	764	3	6	728	28
5220 cement & concrete	755	—	—	728	28
5240 glass & glass prod.	1	0	1	0	—
5290 misc. mineral prod.	7	2	5	0	—
Subtotal primary iron and steel products	724	698	5	0	21
5312 pig iron	0	0	0	—	—
5315 ferro alloys	10	10	—	—	—
5320 i&s primary forms	38	16	0	—	21
5330 i&s plates & sheets	602	600	1	0	—
5360 i&s bars & shapes	68	68	0	0	—
5370 i&s pipe & tube	4	1	3	0	—
5390 primary i&s nec	3	2	0	—	—
Subtotal primary non-ferrous metal products	13	2	6	5	—
5421 copper	0	0	0	—	—
5422 aluminum	6	0	1	5	—
5429 smelted prod. nec	0	0	0	—	—
5480 fab. metal products	6	2	4	0	—
Subtotal primary wood products	5	0	4	—	—
5540 primary wood prod.	5	0	4	—	—
Total food and farm products	47	2	41	0	3
Subtotal grain	9	—	5	—	3
6344 corn	8	—	5	—	3
6443 barley & rye	0	—	0	—	—
6445 oats	0	—	0	—	—
6447 sorghum grains	0	—	0	—	—
Subtotal oilseeds	4	—	4	—	—
6522 soybeans	3	—	3	—	—
6590 oilseeds nec	0	—	0	—	—
Subtotal vegetable products	8	0	7	0	—
6653 vegetable oils	1	0	1	—	—
6654 vegetables & prod.	6	0	6	0	—
Subtotal processed grain and animal feed	8	0	7	0	—
6746 wheat flour	0	—	0	—	—
6747 grain mill products	1	0	0	—	—
6782 animal feed, prep.	7	0	7	0	—
Subtotal other agricultural products	19	1	17	0	—
6811 meat, fresh, frozen	1	0	1	—	—
6817 meat, prepared	0	—	0	—	—
6822 dairy products	0	0	0	0	—
6835 fish, prepared	0	0	0	—	—
6839 animals & prod. nec	3	0	3	—	—
6857 fruit & nuts nec	3	—	3	—	—
6858 fruit juices	3	0	3	—	—
6871 coffee	0	0	0	—	—
6872 cocoa beans	0	0	—	—	—
6885 alcoholic beverages	1	0	1	0	—
6888 water & ice	0	0	0	—	—
6889 food products nec	6	0	6	—	—
6894 natural fibers nec	0	—	0	—	—
6899 farm products nec	1	0	1	—	—
Total all manufactured equipment, machinery and products	91	15	73	3	0
7110 machinery (not elec)	28	8	18	2	0
7120 electrical machinery	5	1	4	0	0
7210 vehicles & parts	37	2	34	0	0
7220 aircraft & parts	0	0	0	—	—
7230 ships & boats	0	0	0	0	0
7300 ordnance & access.	0	0	0	—	—
7400 manufac. wood prod.	0	0	0	—	—
7500 textile products	2	1	2	0	—
7600 rubber & plastic pr.	9	0	9	0	0
7900 manufac. prod. nec	9	3	6	0	—
Total unknown or not elsewhere classified	2	0	0	2	—
9900 unknown or nec	2	0	0	2	—

DETROIT HARBOR, MI (INCLUDED IN PORT OF DETROIT)
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Domestic			
		Lakewise		Internal	
		Receipts	Shipments	Receipts	Shipments
Total, all commodities	1,059	976	21	14	47
Total petroleum and petroleum products	79	18	—	14	47
Subtotal petroleum products	79	18	—	14	47
2330 distillate fuel oil	3	—	—	3	—
2340 residual fuel oil	30	18	—	12	—
2430 asphalt, tar & pitch	47	—	—	—	47
Total crude materials, inedible except fuels	513	492	21	—	—
Subtotal soil, sand, gravel, rock and stone	471	471	—	—	—
4322 limestone	471	471	—	—	—
Subtotal iron ore and scrap	21	—	21	—	—
4410 iron ore	21	—	21	—	—
Subtotal slag	21	21	—	—	—
4860 slag	21	21	—	—	—
Total primary manufactured goods	467	467	—	—	—
Subtotal lime, cement and glass	467	467	—	—	—
5220 cement & concrete	467	467	—	—	—

*Includes 1 (x1000) tons of foreign inbound in-transits; Includes 4 (x1000) tons of Canadian outbound 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
1988	7,522	1991	6,522	1994	8,569	1997	11,996
1989	8,044	1992	7,192	1995	11,372		
1990	7,960	1993	7,072	1996	9,307		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign	Canadian	
		Imports	Imports	Exports
Total, all commodities	1,134	4	1,085	46
Total petroleum and petroleum products	78	—	33	45
Subtotal petroleum products	78	—	33	45
2330 distillate fuel oil	2	—	2	—
2340 residual fuel oil	24	—	15	8
2350 lube oil & greases	45	—	9	36
2430 asphalt, tar & pitch	3	—	2	1
2540 petroleum coke	4	—	4	—
Total chemicals and related products	1	—	1	—
Subtotal other chemicals and related products	1	—	1	—
3240 nitrogen func. comp.	0	—	0	—
3276 metallic salts	0	—	0	—
3282 pigments & paints	1	—	1	—
3285 perfumes & cleanser.	0	—	0	—
3286 plastics	0	—	0	—
3292 starches, gluten, glue	0	—	0	—
3299 chem. products nec	0	—	0	—
Total crude materials, inedible except fuels	926	—	926	0
Subtotal forest products, wood and chips	19	—	19	0
4170 wood in the rough	0	—	—	0
4189 lumber	19	—	19	—
Subtotal soil, sand, gravel, rock and stone	82	—	82	—
4331 sand & gravel	82	—	82	—
Subtotal iron ore and scrap	524	—	524	—
4410 iron ore	524	—	524	—
Subtotal slag	0	—	0	—
4860 slag	0	—	0	—
Subtotal other non-metal. min.	301	—	301	—
4900 non-metal. min. nec	301	—	301	—
Total primary manufactured goods	127	4	124	—
Subtotal paper products	0	—	0	—
5120 paper & paperboard	0	—	0	—
Subtotal lime, cement and glass	37	—	37	—
5220 cement & concrete	37	—	37	—
Subtotal primary iron and steel products	91	4	87	—
5312 pig iron	87	—	87	—
5330 i&s plates & sheets	4	4	0	—

ROUGE RIVER, MI (INCLUDED IN PORT OF DETROIT)
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
5370 i&s pipe & tube	0	—	—	0	—
Subtotal primary non-ferrous metal products	0	—	—	0	—
5429 smelted prod. nec	0	—	—	0	—
5480 fab. metal products	0	—	—	0	—
Total food and farm products	0	—	—	0	—
Subtotal oilseeds	0	—	—	0	—
6590 oilseeds nec	0	—	—	0	—
Subtotal processed grain and animal feed	0	—	—	0	—
6782 animal feed, prep.	0	—	—	0	—
Subtotal other agricultural products	0	—	—	0	—
6858 fruit juices	0	—	—	0	—
6885 alcoholic beverages	0	—	—	0	—
6889 food products nec	0	—	—	0	—
Total all manufactured equipment, machinery and products	1	—	—	1	—
7110 machinery (not elec)	0	—	—	0	—
7120 electrical machinery	0	—	—	0	—
7210 vehicles & parts	0	—	—	0	—
7230 ships & boats	0	—	—	0	—
7500 textile products	0	—	—	0	—
7600 rubber & plastic pr.	0	—	—	0	—
7900 manufac. prod. nec	0	—	—	0	—
Total unknown or not elsewhere classified	1	—	—	1	—
9900 unknown or nec	1	—	—	1	—

Commodity	Total	Domestic				
		Lakewise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	10,862	10,235	440	49	13	125
Total coal	1,441	1,441	—	—	—	—
1100 coal lignite	1,441	1,441	—	—	—	—
Total petroleum and petroleum products	743	116	440	49	13	125
Subtotal petroleum products	743	116	440	49	13	125
2330 distillate fuel oil	32	—	30	—	3	—
2340 residual fuel oil	55	—	47	—	2	5
2430 asphalt, tar & pitch	602	68	359	47	8	121
2540 petroleum coke	54	47	5	2	—	—
Total crude materials, inedible except fuels	8,678	8,678	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	2,652	2,652	—	—	—	—
4322 limestone	2,322	2,322	—	—	—	—
4323 gypsum	329	329	—	—	—	—
Subtotal iron ore and scrap	5,836	5,836	—	—	—	—
4410 iron ore	5,836	5,836	—	—	—	—
Subtotal slag	65	65	—	—	—	—
4860 slag	65	65	—	—	—	—
Subtotal other non-metal. min.	125	125	—	—	—	—
4900 non-metal. min. nec	125	125	—	—	—	—

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
1988	483	1991	421	1994	712	1997	375
1989	641	1992	350	1995	549		
1990	268	1993	276	1996	797		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic
		Imports*	Exports	Imports	Exports	Lakewise Receipts
Total, all commodities	375	267	32	44	7	25
Total coal	5	—	—	5	—	—
1200 coal coke	5	—	—	5	—	—
Total crude materials, inedible except fuels	65	—	7	33	—	25
Subtotal soil, sand, gravel, rock and stone	33	—	—	33	—	—
4331 sand & gravel	33	—	—	33	—	—
Subtotal sulphur, clay and salt	7	—	7	—	—	—
4782 clay & refrac. mat.	7	—	7	—	—	—

ECORSE, MI (INCLUDED IN PORT OF DETROIT)
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic
		Imports*	Exports	Imports	Exports	Lakewise Receipts
Subtotal other non-metal. min.	25	—	—	—	—	25
4900 non-metal. min. nec	25	—	—	—	—	25
Total primary manufactured goods	296	266	24	6	0	—
Subtotal primary iron and steel products	289	266	24	—	0	—
5320 i&s primary forms	12	12	0	—	—	—
5330 i&s plates & sheets	273	249	24	—	0	—
5360 i&s bars & shapes	4	4	—	—	—	—
Subtotal primary non-ferrous metal products	7	1	—	6	—	—
5422 aluminum	7	1	—	6	—	—
Total food and farm products	7	0	—	—	7	—
Subtotal grain	7	—	—	—	7	—
6344 corn	7	—	—	—	7	—
Subtotal other agricultural products	0	0	—	—	—	—
6885 alcoholic beverages	0	0	—	—	—	—
Total all manufactured equipment, machinery and products	1	0	0	—	—	—
7110 machinery (not elec)	0	0	—	—	—	—
7210 vehicles & parts	0	—	0	—	—	—

*Includes 7 (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
1988	15,331	1991	14,321	1994	18,718	1997	18,135
1989	20,701	1992	16,303	1995	18,661		
1990	17,735	1993	17,422	1996	18,604		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports*
Total, all commodities	6,114	996	283	4,618	218
Total coal	421	—	1	331	89
1100 coal lignite	321	—	1	320	—
1200 coal coke	100	—	—	11	89
Total petroleum and petroleum products	167	1	1	98	68
Subtotal crude petroleum	1	1	—	—	—
2100 crude petroleum	1	1	—	—	—
Subtotal petroleum products	166	—	1	98	68
2211 gasoline	7	—	—	7	—
2330 distillate fuel oil	7	—	—	7	—
2340 residual fuel oil	59	—	—	36	23
2350 lube oil & greases	53	—	0	10	43
2410 petro. jelly & waxes	0	—	0	—	—
2429 naphtha & solvents	0	—	0	—	—
2430 asphalt, tar & pitch	7	—	—	6	1
2540 petroleum coke	32	—	0	32	—
Total chemicals and related products	94	4	61	29	0
Subtotal fertilizers	29	—	5	24	—
3110 nitrogenous fert.	24	—	—	24	—
3190 fert. & mixes nec	5	—	5	—	—
Subtotal other chemicals and related products	65	4	56	5	0
3211 acyclic hydrocarbons	0	0	0	—	—
3212 benzene & toluene	0	—	0	—	—
3219 other hydrocarbons	6	—	6	—	—
3220 alcohols	1	0	1	—	—
3230 carboxylic acids	5	1	4	—	—
3240 nitrogen func. comp.	6	1	5	0	—
3250 organo-inorganic comp.	2	0	2	—	—
3260 organic comp. nec	2	0	1	—	—
3273 ammonia	0	—	—	0	—
3274 sodium hydroxide	0	0	0	0	—
3275 inorg. elem., oxides, & halogen salts	1	0	1	0	—
3276 metallic salts	1	0	0	0	—
3279 inorganic chem. nec	0	0	—	—	—
3281 radioactive material	0	—	0	—	—
3282 pigments & paints	7	0	3	4	—
3283 coloring mat. nec	0	0	0	0	—
3284 medicines	1	0	1	—	—
3285 perfumes & cleansers	14	0	14	0	—
3286 plastics	11	1	9	0	—
3291 pesticides	0	0	0	—	—

PORT OF DETROIT, MI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports*
3292 starches, gluten, glue	2	0	1	0	—
3297 chemical additives	4	1	3	0	0
3298 wood & resin chem.	0	—	0	—	—
3299 chem. products nec	3	0	2	0	—
Total crude materials, inedible except fuels	3,349	0	55	3,292	2
Subtotal forest products, wood and chips	138	0	8	129	2
4110 rubber & gums	0	—	0	—	—
4150 fuel wood	0	—	0	—	—
4161 wood chips	7	—	7	—	—
4170 wood in the rough	2	—	0	—	2
4189 lumber	129	0	0	129	—
4190 forest products nec	0	0	—	—	—
Subtotal pulp and waste paper	4	—	4	—	—
4225 pulp & waste paper	4	—	4	—	—
Subtotal soil, sand, gravel, rock and stone	208	0	1	207	—
4323 gypsum	1	—	1	—	—
4331 sand & gravel	207	0	0	207	—
Subtotal Iron ore and scrap	2,449	—	0	2,448	—
4410 iron ore	2,422	—	—	2,422	—
4420 iron & steel scrap	26	—	0	26	—
Subtotal non-ferrous ores and scrap	1	0	1	—	—
4650 aluminum ore	0	0	0	—	—
4680 non-ferrous scrap	0	0	—	—	—
4690 non-ferrous ores nec	0	—	0	—	—
Subtotal sulphur, clay and salt	41	0	41	0	—
4782 clay & refrac. mat.	41	0	41	0	—
Subtotal slag	6	0	—	6	—
4860 slag	6	0	—	6	—
Subtotal other non-metal. min.	503	—	0	503	—
4900 non-metal. min. nec	503	—	0	503	—
Total primary manufactured goods	1,935	974	51	862	49
Subtotal paper products	7	0	6	0	—
5120 paper & paperboard	5	0	5	0	—
5190 paper products nec	1	0	1	—	—
Subtotal lime, cement and glass	801	3	6	765	28
5220 cement & concrete	792	—	—	765	28
5240 glass & glass prod.	1	0	1	0	—
5290 misc. mineral prod.	7	2	5	0	—
Subtotal primary iron and steel products	1,104	967	29	87	21
5312 pig iron	87	0	0	87	—
5315 ferro alloys	10	10	—	—	—
5320 i&s primary forms	49	28	0	—	21
5330 i&s plates & sheets	879	854	25	0	0
5360 i&s bars & shapes	72	72	0	0	—
5370 i&s pipe & tube	4	1	3	0	—
5390 primary i&s nec	3	2	0	—	—
Subtotal primary non-ferrous metal products	19	3	6	11	—
5421 copper	0	0	0	—	—
5422 aluminum	13	1	1	10	—
5429 smelted prod. nec	0	0	0	0	—
5480 fab. metal products	6	2	4	0	—
Subtotal primary wood products	5	0	4	—	—
5540 primary wood prod.	5	0	4	—	—
Total food and farm products	54	2	41	1	10
Subtotal grain	16	—	5	—	10
6344 corn	15	—	5	—	10
6443 barley & rye	0	—	0	—	—
6445 oats	0	—	0	—	—
6447 sorghum grains	0	—	0	—	—
Subtotal oilseeds	4	—	4	0	—
6522 soybeans	3	—	3	—	—
6590 oilseeds nec	0	—	0	0	—
Subtotal vegetable products	8	0	7	0	—
6653 vegetable oils	1	0	1	—	—
6654 vegetables & prod.	6	0	6	0	—
Subtotal processed grain and animal feed	8	0	7	0	—
6746 wheat flour	0	—	0	—	—
6747 grain mill products	1	0	0	—	—
6782 animal feed, prep.	7	0	7	0	—
Subtotal other agricultural products	19	1	17	0	—
6811 meat, fresh, frozen	1	0	1	—	—
6817 meat, prepared	0	—	0	—	—
6822 dairy products	0	0	0	0	—
6835 fish, prepared	0	0	0	—	—
6839 animals & prod. nec	3	0	3	—	—
6857 fruit & nuts nec	3	—	3	—	—
6858 fruit juices	3	0	3	0	—
6871 coffee	0	0	0	—	—
6872 cocoa beans	0	0	—	—	—
6885 alcoholic beverages	1	0	1	0	—
6888 water & ice	0	0	0	—	—
6889 food products nec	6	0	6	0	—
6894 natural fibers nec	0	—	0	—	—
6899 farm products nec	1	0	1	—	—
Total all manufactured equipment, machinery and products	92	15	74	3	0
7110 machinery (not elec)	29	9	18	2	0
7120 electrical machinery	5	1	4	0	0
7210 vehicles & parts	37	2	34	1	0
7220 aircraft & parts	0	0	0	—	—
7230 ships & boats	0	0	0	0	0

PORT OF DETROIT, MI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports*
7300 ordnance & access.	0	0	0	—	—
7400 manufac. wood prod.	0	0	0	—	—
7500 textile products	2	1	2	0	—
7600 rubber & plastic pr.	9	0	9	0	0
7900 manufac. prod. nec	9	3	6	0	—
Total unknown or not elsewhere classified	3	0	0	3	—
9900 unknown or nec	3	0	0	3	—

Commodity	Total	Domestic				
		Lakewise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	12,021	11,363	462	11	8	177
Total coal	1,549	1,549	—	—	—	—
1100 coal lignite	1,549	1,549	—	—	—	—
Total petroleum and petroleum products	770	134	440	11	8	177
Subtotal petroleum products	770	134	440	11	8	177
2330 distillate fuel oil	32	—	30	—	—	3
2340 residual fuel oil	82	19	47	9	—	7
2430 asphalt, tar & pitch	602	68	359	—	8	168
2540 petroleum coke	54	47	5	2	—	—
Total crude materials, inedible except fuels	9,235	9,214	21	—	—	—
Subtotal soil, sand, gravel, rock and stone	3,142	3,142	—	—	—	—
4322 limestone	2,813	2,813	—	—	—	—
4323 gypsum	329	329	—	—	—	—
Subtotal iron ore and scrap	5,857	5,836	21	—	—	—
4410 iron ore	5,857	5,836	21	—	—	—
Subtotal slag	86	86	—	—	—	—
4860 slag	86	86	—	—	—	—
Subtotal other non-metal. min.	150	150	—	—	—	—
4900 non-metal. min. nec	150	150	—	—	—	—
Total primary manufactured goods	467	467	—	—	—	—
Subtotal lime, cement and glass	467	467	—	—	—	—
5220 cement & concrete	467	467	—	—	—	—

*Includes 7 (x1000) tons of foreign inbound in-transits; Includes 4 (x1000) tons of Canadian outbound 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
1988	1,123	1991	1,837	1994	2,035	1997	2,750
1989	1,490	1992	1,778	1995	1,920		
1990	1,585	1993	1,078	1996	1,794		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian	Domestic
		Imports	Lakewise Receipts
Total, all commodities	2,750	12	2,737
Total coal	2,705	—	2,705
1100 coal lignite	2,705	—	2,705
Total petroleum and petroleum products	32	—	32
Subtotal petroleum products	32	—	32
2430 asphalt, tar & pitch	32	—	32
Total chemicals and related products	6	6	—
Subtotal fertilizers	5	5	—
3110 nitrogenous fert.	5	5	—
Subtotal other chemicals and related products	1	1	—
3240 nitrogen func. comp.	0	0	—
3273 ammonia	0	0	—
3275 inorg. elem., oxides, & halogen salts	1	1	—

MONROE HARBOR, MI
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Canadian	Domestic
		Imports	Lakewise Receipts
Total crude materials, inedible except fuels	7	7	—
Subtotal forest products, wood and chips	0	0	—
4189 lumber	0	0	—
Subtotal soil, sand, gravel, rock and stone	6	6	—
4331 sand & gravel	6	6	—
Total primary manufactured goods	0	0	—
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	—
7210 vehicles & parts	0	0	—
7600 rubber & plastic pr.	0	0	—
Total unknown or not elsewhere classified	0	0	—
9900 unknown or nec	0	0	—

CALCITE, MI

NON-CORPS PROJECT

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	10,205	1991	8,814	1994	7,456	1997	10,036
1989	9,238	1992	7,049	1995	8,381		
1990	10,058	1993	6,419	1996	8,669		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	
				Receipts	Shipments	
Total, all commodities	10,036	149	2,001	7,886	102	7,784
Total coal	61	27	33	—	—	—
1100 coal lignite	61	27	33	—	—	—
Total crude materials, inedible except fuels	9,969	115	1,967	7,886	102	7,784
Subtotal soil, sand, gravel, rock and stone	9,882	28	1,967	7,886	102	7,784
4322 limestone	9,854	—	1,967	7,886	102	7,784
4331 sand & gravel	28	28	—	—	—	—
Subtotal sulphur, clay and salt	26	26	—	—	—	—
4782 clay & refrac. mat.	26	26	—	—	—	—
Subtotal other non-metal. min.	61	61	—	—	—	—
4900 non-metal. min. nec	61	61	—	—	—	—
Total primary manufactured goods	7	7	—	—	—	—
Subtotal primary iron and steel products	7	7	—	—	—	—
5330 i&s plates & sheets	7	7	—	—	—	—

ESCANABA, MI

NON-CORPS PROJECT

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	7,873	1991	6,492	1994	7,775	1997	7,261
1989	6,767	1992	7,401	1995	8,479		
1990	6,400	1993	7,142	1996	9,253		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Lakewise	
		Receipts	Shipments
Total, all commodities	7,261	682	6,579
Total coal	298	298	—
1100 coal lignite	298	298	—
Total crude materials, inedible except fuels	6,963	384	6,579
Subtotal soil, sand, gravel, rock and stone	384	384	—
4322 limestone	384	384	—
Subtotal iron ore and scrap	6,579	—	6,579
4410 iron ore	6,579	—	6,579

STONEPORT, MI

NON-CORPS PROJECT

Comparative Statement of Traffic (thousand short tons)

Year	Total	Year	Total	Year	Total	Year	Total
1988	8,337	1991	9,317	1994	8,416	1997	8,101
1989	8,888	1992	8,650	1995	8,468		
1990	8,694	1993	8,752	1996	7,990		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	
					Receipts	Shipments
Total, all commodities	8,101	6	302	7,793	145	7,648
Total chemicals and related products	6	6	—	—	—	—
Subtotal fertilizers	6	6	—	—	—	—
3130 potassic fert.	6	6	—	—	—	—
Total crude materials, inedible except fuels	8,095	—	302	7,793	145	7,648
Subtotal soil, sand, gravel, rock and stone	8,095	—	302	7,793	145	7,648
4322 limestone	8,095	—	302	7,793	145	7,648

Other Harbors and Waterways 1997

Harbor or Waterway Project	Commodity	Thousand Short Tons
ALGOMA HARBOR, WI	No Commerce Reported	
ALGONAC, MI (INCLUDED IN ST. CLAIR RIVER)	No Commerce Reported	
ASHLAND HARBOR, WI	1100 coal lignite 4322 limestone	52 27
	Total Tons(x1000)	79
AU SABLE HARBOR AND RIVER (OSCODA), MI	No Commerce Reported	
BAYFIELD HARBOR, WI	2211 gasoline 2330 distillate fuel oil 2640 liquid natural gas 4331 sand & gravel 7900 manufac. prod. nec	2 0 0 9 17
	Total Tons(x1000)	29
BEAVER BAY HARBOR, MN	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)	3286 plastics	0
	Total Tons(x1000)	0
DETROIT HARBOR, WI	2211 gasoline 2330 distillate fuel oil 2640 liquid natural gas 4170 wood in the rough 4189 lumber 5290 misc. mineral prod. 6134 fish (not shellfish) 7400 manufac. wood prod. 9900 unknown or nec	1 1 0 1 0 0 0 0 4
	Total Tons(x1000)	8
EAGLE HARBOR, MI	No Commerce Reported	
FRANKFORT HARBOR, MI	2430 asphalt, tar & pitch 2540 petroleum coke 4335 waterway improv. mat	105 44 1
	Total Tons(x1000)	150
GLADSTONE HARBOR, MI	1100 coal lignite 2430 asphalt, tar & pitch 4322 limestone 4900 non-metal. min. nec	120 40 16 52
	Total Tons(x1000)	228

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons
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	65
	Total Tons(x1000)	65
HARRISVILLE HARBOR, MI (HARBOR OF REFUGE, LAKE HURON)	No Commerce Reported	
KENOSHA HARBOR, WI	No Commerce Reported	
KEWAUNEE HARBOR, WI	No Commerce Reported	
KEWEENAW WATERWAY, MI	2211 gasoline 4189 lumber 4322 limestone 4331 sand & gravel 4420 iron & steel scrap 5480 fab. metal products 7110 machinery (not elec) 7210 vehicles & parts 7900 manufac. prod. nec 8900 waste and scrap nec	0 0 3 0 0 0 0 0 0 0
	Total Tons(x1000)	4
	Total Ton-miles(x1000)	6
KNIFE RIVER HARBOR, MN	No Commerce Reported	
LA POINTE HARBOR, WI	2211 gasoline 2330 distillate fuel oil 2640 liquid natural gas 7900 manufac. prod. nec	2 0 0 17
	Total Tons(x1000)	20
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	4322 limestone 4331 sand & gravel 5220 cement & concrete 7900 manufac. prod. nec	8 1 1 3
	Total Tons(x1000)	14
MACKINAW CITY HARBOR, MI	4860 slag	3
	Total Tons(x1000)	3
MANISTIQUE HARBOR, MI	2211 gasoline 2330 distillate fuel oil	0 0
	Total Tons(x1000)	1

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons
NEW BUFFALO HARBOR MI	No Commerce Reported	
OCONTO HARBOR, WI	No Commerce Reported	
ONTONAGON HARBOR, MI	1100 coal lignite 4322 limestone	100 20
	Total Tons(x1000)	121
PENSAUKEE HARBOR, WI	No Commerce Reported	
PENTWATER HARBOR, MI	4335 waterway improv. mat	1
	Total Tons(x1000)	1
PORT SANILAC HARBOR, MI	No Commerce Reported	
PORT WING HARBOR, WI	No Commerce Reported	
PUT-IN-BAY HARBOR, OH	2330 distillate fuel oil 9900 unknown or nec	2 1
	Total Tons(x1000)	3
RACINE HARBOR, WI	4335 waterway improv. mat 7110 machinery (not elec)	1 0
	Total Tons(x1000)	1
ROGERS CITY, MI	No Commerce Reported	
SAUGATUCK HARBOR AND KALAMAZOO RIVER, MI	No Commerce Reported	
SAULT STE. MARIE, MI (INCLUDED IN ST. MARYS RIVER)	1100 coal lignite 3250 organo-inorganic comp. 3284 medicines 3286 plastics 3299 chem. products nec 4189 lumber 4322 limestone 5190 paper products nec 5312 pig iron 6344 corn 6522 soybeans 6653 vegetable oils 6654 vegetables & prod. 6747 grain mill products 6782 animal feed, prep. 6839 animals & prod. nec 6891 tobacco & products 7110 machinery (not elec) 7900 manufac. prod. nec	4 0 3 0 0 0 47 0 0 4 3 0 0 0 0 0 0 0 0 0 0 1
	Total Tons(x1000)	64
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 2330 distillate fuel oil 9900 unknown or nec	0 0 5
	Total Tons(x1000)	6

Other Harbors and Waterways 1997 - continued

Harbor or Waterway Project	Commodity	Thousand Short Tons
STURGEON BAY AND LAKE MICHIGAN SHIP CANAL, WI	4331 sand & gravel	3
	Total Tons(x1000)	3
TRENTON, MI (INCLUDED IN PORT OF DETROIT)	1100 coal lignite	15
	4322 limestone	9
	Total Tons(x1000)	24
TWO RIVERS HARBOR, WI	No Commerce Reported	
WARROAD HARBOR, MN	No Commerce Reported	
WHITE LAKE HARBOR, MI	4331 sand & gravel	11
	Total Tons(x1000)	11
WHITEFISH POINT HARBOR, MI	No Commerce Reported	
WYANDOTTE, MI (INCLUDED IN PORT OF DETROIT)	1100 coal lignite	92
	4322 limestone	11
	Total Tons(x1000)	103
Non-project		
ALABASTER, MI	4322 limestone	30
	4323 gypsum	566
	Total Tons(x1000)	596
MARBLEHEAD, OH	2211 gasoline	0
	2330 distillate fuel oil	0
	2640 liquid natural gas	0
	3190 fert. & mixes nec	0
	4161 wood chips	0
	4189 lumber	0
	4322 limestone	3,615
	4338 soil & fill dirt	0
	5290 misc. mineral prod.	0
	5480 fab. metal products	0
	6782 animal feed, prep.	0
	6887 groceries	0
	6889 food products nec	0
	7110 machinery (not elec)	0
	7210 vehicles & parts	0
	7400 manufac. wood prod.	0
7900 manufac. prod. nec	1	
8900 waste and scrap nec	0	
9900 unknown or nec	2	
Total Tons(x1000)	3,619	
PORT DOLOMITE, MI	4322 limestone	3,949
	4331 sand & gravel	42
	Total Tons(x1000)	3,992
PORT GYPSUM, MI	4323 gypsum	487
	Total Tons(x1000)	487

Other Harbors and Waterways 1997 - continued

Harbor or Waterway	Commodity	Thousand Short Tons
Non-project		
PORT INLAND, MI	4322 limestone	5,242
	4331 sand & gravel	32
	4900 non-metal. min. nec	30
	Total Tons(x1000)	5,305
SILVER BAY, MN	1100 coal lignite	280
	4322 limestone	154
	4410 iron ore	5,055
	Total Tons(x1000)	5,489

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
1988	14,742	1991	12,073	1994	13,204	1997	14,422
1989	14,806	1992	12,722	1995	14,074		
1990	14,668	1993	12,150	1996	13,032		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports*	Total	Lakewise	
							Receipts	Shipments
Total, all commodities	14,422	450	337	1,389	4,735	7,509	4,282	3,227
Total coal	6,931	—	—	15	3,907	3,009	17	2,992
1100 coal lignite	6,883	—	—	—	3,874	3,009	17	2,992
1200 coal coke	48	—	—	15	33	—	—	—
Total petroleum and petroleum products	474	—	—	5	27	442	210	232
Subtotal petroleum products	474	—	—	5	27	442	210	232
2211 gasoline	54	—	—	—	—	54	—	54
2330 distillate fuel oil	32	—	—	—	—	32	—	32
2340 residual fuel oil	169	—	—	5	21	144	3	140
2350 lube oil & greases	6	—	—	—	6	—	—	—
2430 asphalt, tar & pitch	161	—	—	—	—	161	155	6
2540 petroleum coke	51	—	—	—	—	51	51	—
Total chemicals and related products	180	58	0	115	7	—	—	—
Subtotal fertilizers	151	35	—	115	—	—	—	—
3110 nitrogenous fert.	35	35	—	—	—	—	—	—
3130 potassic fert.	115	—	—	115	—	—	—	—
3190 fert. & mixes nec	0	0	—	—	—	—	—	—
Subtotal other chemicals and related products	30	22	0	—	7	—	—	—
3219 other hydrocarbons	7	—	—	—	7	—	—	—
3240 nitrogen func. comp.	0	—	0	—	—	—	—	—
3275 inorg. elem. oxides, & halogen salts	0	—	—	—	0	—	—	—
3276 metallic salts	22	22	—	—	—	—	—	—
3285 perfumes & cleansers	0	—	0	—	—	—	—	—
3286 plastics	0	—	0	—	—	—	—	—
3297 chemical additives	0	—	0	—	—	—	—	—
3299 chem. products nec	0	—	0	—	—	—	—	—
Total crude materials, inedible except fuels	5,023	35	1	1,005	26	3,957	3,955	2
Subtotal pulp and waste paper	1	—	1	—	—	—	—	—
4225 pulp & waste paper	1	—	1	—	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	282	—	—	249	26	7	5	2
4322 limestone	31	—	—	—	26	5	5	—
4331 sand & gravel	251	—	—	249	—	2	—	2
Subtotal iron ore and scrap	4,280	—	0	479	—	3,801	3,801	—
4410 iron ore	4,280	—	0	479	—	3,801	3,801	—
4420 iron & steel scrap	0	—	0	—	—	—	—	—
Subtotal non-ferrous ores and scrap	0	—	0	—	—	—	—	—
4630 copper ore	0	—	0	—	—	—	—	—
Subtotal sulphur, clay and salt	35	35	—	—	—	—	—	—
4782 clay & refrac. mat.	35	35	—	—	—	—	—	—
Subtotal other non-metal. min.	425	—	—	277	—	148	148	—
4900 non-metal. min. nec	425	—	—	277	—	148	148	—
Total primary manufactured goods	526	353	0	91	—	81	81	—
Subtotal lime, cement and glass	123	—	0	42	—	81	81	—
5220 cement & concrete	123	—	—	42	—	81	81	—
5240 glass & glass prod.	0	—	0	—	—	—	—	—
5290 misc. mineral prod.	0	—	0	—	—	—	—	—
Subtotal primary iron and steel products	314	310	—	5	—	—	—	—
5312 pig iron	117	112	—	5	—	—	—	—
5320 i&s primary forms	6	6	—	—	—	—	—	—
5330 i&s plates & sheets	89	89	—	—	—	—	—	—
5360 i&s bars & shapes	101	101	—	—	—	—	—	—
5370 i&s pipe & tube	1	1	—	—	—	—	—	—
5390 primary i&s nec	1	1	—	—	—	—	—	—

TOLEDO HARBOR, OH
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports*	Total	Lakewise	
							Receipts	Shipments
Subtotal primary non-ferrous metal products	88	43	0	44	—	—	—	—
5422 aluminum	44	—	0	44	—	—	—	—
5429 smelted prod. nec	43	43	—	—	—	—	—	—
5480 fab. metal products	0	0	—	—	—	—	—	—
Total food and farm products	1,286	3	336	158	769	20	20	—
Subtotal grain	400	—	19	158	203	20	20	—
6241 wheat	82	—	—	52	30	—	—	—
6344 corn	192	—	19	—	173	—	—	—
6445 oats	126	—	—	106	20	20	—	—
Subtotal oilseeds	883	—	317	—	566	—	—	—
6522 soybeans	883	—	317	—	566	—	—	—
Subtotal vegetable products	0	—	0	—	—	—	—	—
6654 vegetables & prod.	0	—	0	—	—	—	—	—
Subtotal other agricultural products	4	3	0	—	—	—	—	—
6811 meat, fresh, frozen	0	—	0	—	—	—	—	—
6839 animals & prod. nec	0	—	0	—	—	—	—	—
6861 sugar	3	3	—	—	—	—	—	—
6885 alcoholic beverages	0	0	—	—	—	—	—	—
Total all manufactured equipment, machinery and products	1	1	0	0	—	—	—	—
7110 machinery (not elec)	1	1	0	0	—	—	—	—
7210 vehicles & parts	0	0	0	—	—	—	—	—
7600 rubber & plastic pr.	0	—	0	—	—	—	—	—
Total unknown or not elsewhere classified	0	—	—	0	—	—	—	—
9900 unknown or nec	0	—	—	0	—	—	—	—

*Includes 47 (x1000) tons of Canadian outbound 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
1988	18	1991	503	1994	521	1997	1,170
1989	6	1992	564	1995	123		
1990	6	1993	564	1996	371		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Lakewise	
		Receipts	Shipments
Total, all commodities	1,170	4	1,166
Total petroleum and petroleum products	1	1	—
Subtotal petroleum products	1	1	—
2211 gasoline	0	0	—
2330 distillate fuel oil	0	0	—
2640 liquid natural gas	0	0	—
Total chemicals and related products	0	0	—
Subtotal fertilizers	0	0	—
3190 fert. & mixes nec	0	0	—
Total crude materials, inedible except fuels	1,166	0	1,166
Subtotal forest products, wood and chips	0	0	0
4161 wood chips	0	0	0
4189 lumber	0	0	—
Subtotal soil, sand, gravel, rock and stone	1,166	0	1,166
4322 limestone	1,166	—	1,166
4338 soil & fill dirt	0	0	—
Total primary manufactured goods	0	0	0
Subtotal lime, cement and glass	0	0	—
5290 misc. mineral prod.	0	0	—
Subtotal primary non-ferrous metal products	0	0	0
5480 fab. metal products	0	0	0
Total food and farm products	1	1	—
Subtotal processed grain and animal feed	0	0	—
6782 animal feed, prep.	0	0	—
Subtotal other agricultural products	1	1	—
6887 groceries	0	0	—

KELLEYS ISLAND, OH
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Lakewise	
		Receipts	Shipments
6889 food products nec	0	0	—
Total all manufactured equipment, machinery and products	1	1	0
7110 machinery (not elec)	0	0	0
7210 vehicles & parts	0	0	—
7400 manufac. wood prod.	0	0	—
7900 manufac. prod. nec	1	1	—
Total waste and scrap nec	0	0	0
8900 waste and scrap nec	0	0	0
Total unknown or not elsewhere classified	2	2	—
9900 unknown or nec	2	2	—

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
1988	4,831	1991	4,018	1994	5,422	1997	4,403
1989	4,485	1992	5,179	1995	3,536		
1990	4,600	1993	5,176	1996	3,408		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	
					Receipts	Shipments
Total, all commodities	4,403	5	2,544	1,854	154	1,700
Total coal	4,163	—	2,465	1,699	—	1,699
1100 coal lignite	4,163	—	2,465	1,699	—	1,699
Total petroleum and petroleum products	1	—	—	1	—	1
Subtotal petroleum products	1	—	—	1	—	1
2211 gasoline	0	—	—	0	—	0
2330 distillate fuel oil	1	—	—	1	—	1
2640 liquid natural gas	0	—	—	0	—	0
Total chemicals and related products	0	—	—	0	—	0
Subtotal fertilizers	0	—	—	0	—	0
3190 fert. & mixes nec	0	—	—	0	—	0
Total crude materials, inedible except fuels	239	5	80	154	154	0
Subtotal forest products, wood and chips	0	—	—	0	—	0
4189 lumber	0	—	—	0	—	0
Subtotal soil, sand, gravel, rock and stone	187	—	50	137	137	—
4322 limestone	70	—	50	20	20	—
4323 gypsum	99	—	—	99	99	—
4331 sand & gravel	18	—	—	18	18	—
Subtotal iron ore and scrap	5	5	—	—	—	—
4420 iron & steel scrap	5	5	—	—	—	—
Subtotal sulphur, clay and salt	30	—	30	—	—	—
4782 clay & refrac. mat.	30	—	30	—	—	—
Subtotal other non-metal. min.	17	—	—	17	17	—
4900 non-metal. min. nec	17	—	—	17	17	—
Total primary manufactured goods	0	—	—	0	0	0
Subtotal lime, cement and glass	0	—	—	0	—	0
5290 misc. mineral prod.	0	—	—	0	—	0
Subtotal primary iron and steel products	0	—	—	0	—	0
5370 i&s pipe & tube	0	—	—	0	—	0
Subtotal primary non-ferrous metal products	0	—	—	0	0	0
5480 fab. metal products	0	—	—	0	0	0
Total food and farm products	0	—	—	0	0	—
Subtotal other agricultural products	0	—	—	0	0	—
6857 fruit & nuts nec	0	—	—	0	0	—
Total all manufactured equipment, machinery and products	0	—	—	0	0	0
7110 machinery (not elec)	0	—	—	0	0	0
7210 vehicles & parts	0	—	—	0	0	0
7400 manufac. wood prod.	0	—	—	0	—	0
7900 manufac. prod. nec	0	—	—	0	0	0
Total waste and scrap nec	0	—	—	0	0	—
8900 waste and scrap nec	0	—	—	0	0	—

SANDUSKY HARBOR, OH
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	
					Receipts	Shipments
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
1988	523	1991	524	1994	871	1997	856
1989	590	1992	618	1995	1,087		
1990	565	1993	529	1996	1,004		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian Imports	Domestic		
			Total	Lakewise	
				Receipts	Shipments
Total, all commodities	856	7	849	848	1
Total crude materials, inedible except fuels	848	---	848	848	---
Subtotal soil, sand, gravel, rock and stone	455	---	455	455	---
4322 limestone	455	---	455	455	---
Subtotal iron ore and scrap	310	---	310	310	---
4410 iron ore	310	---	310	310	---
Subtotal other non-metal. min.	83	---	83	83	---
4900 non-metal. min. nec	83	---	83	83	---
Total food and farm products	8	7	1	---	1
Subtotal grain	7	7	---	---	---
6445 oats	7	7	---	---	---
Subtotal other agricultural products	1	---	1	---	1
6861 sugar	1	---	1	---	1
Total all manufactured equipment, machinery and products	0	---	0	0	---
7110 machinery (not elec)	0	---	0	0	---

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
1988	17,476	1991	13,632	1994	14,748	1997	15,955
1989	14,568	1992	13,282	1995	14,964		
1990	13,967	1993	13,677	1996	15,978		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian Imports	Domestic			Internal Intraport
			Total	Lakewise		
				Receipts	Shipments	
Total, all commodities	15,955	541	15,414	8,979	6,434	1
Total chemicals and related products	18	18	---	---	---	---
Subtotal fertilizers	18	18	---	---	---	---
3130 potassic fert.	18	18	---	---	---	---
Total crude materials, inedible except fuels	15,833	419	15,413	8,979	6,434	1
Subtotal forest products, wood and chips	0	---	0	---	---	0
4189 lumber	0	---	0	---	---	0

LORAIN HARBOR, OH
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Canadian Imports	Domestic			
			Total	Lakewise		Internal Intraport
				Receipts	Shipments	
Subtotal soil, sand, gravel, rock and stone	465	—	465	446	19	1
4322 limestone	221	—	221	219	1	1
4323 gypsum	227	—	227	227	—	—
4331 sand & gravel	18	—	18	—	18	—
Subtotal iron ore and scrap	15,178	394	14,784	8,533	6,251	—
4410 iron ore	15,136	352	14,784	8,533	6,251	—
4420 iron & steel scrap	42	42	—	—	—	—
Subtotal sulphur, clay and salt	25	25	—	—	—	—
4782 clay & refrac. mat.	25	25	—	—	—	—
Subtotal slag	164	—	164	—	164	—
4860 slag	164	—	164	—	164	—
Total primary manufactured goods	28	28	0	—	0	0
Subtotal lime, cement and glass	18	18	0	—	—	0
5220 cement & concrete	18	18	—	—	—	—
5290 misc. mineral prod.	0	—	0	—	—	0
Subtotal primary iron and steel products	10	10	0	—	0	0
5312 pig iron	5	5	—	—	—	—
5320 i&s primary forms	6	6	—	—	—	—
5370 i&s pipe & tube	0	—	0	—	0	0
Subtotal primary non-ferrous metal products	0	—	0	—	—	0
5480 fab. metal products	0	—	0	—	—	0
Total food and farm products	76	76	—	—	—	—
Subtotal grain	76	76	—	—	—	—
6445 oats	76	76	—	—	—	—
Total all manufactured equipment, machinery and products	0	—	0	—	0	0
7110 machinery (not elec)	0	—	0	—	0	—
7400 manufac. wood prod.	0	—	0	—	—	0

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
1988	14,551	1991	13,406	1994	15,284	1997	18,113
1989	14,688	1992	13,654	1995	15,393		
1990	14,368	1993	14,083	1996	16,721		

Freight Traffic, 1997 (thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
Total, all commodities	3,340	913	16	2,252	158
Total petroleum and petroleum products	65	4	10	50	—
Subtotal petroleum products	65	4	10	50	—
2330 distillate fuel oil	8	0	—	8	—
2340 residual fuel oil	36	—	—	36	—
2430 asphalt, tar & pitch	14	4	3	6	—
2540 petroleum coke	0	—	—	0	—
2640 liquid natural gas	7	—	7	—	—
Total chemicals and related products	16	0	1	15	—
Subtotal fertilizers	6	—	—	6	—
3130 potassic fert.	6	—	—	6	—
Subtotal other chemicals and related products	10	0	1	9	—
3230 carboxylic acids	0	0	0	—	—
3275 inorg. elem. oxides, & halogen salts	0	0	—	—	—
3276 metallic salts	9	0	0	9	—
3282 pigments & paints	0	0	0	—	—
3285 perfumes & cleansers	0	—	0	—	—
3286 plastics	0	0	0	—	—
3291 pesticides	0	—	0	—	—
3292 starches, gluten, glue	0	—	0	—	—
3297 chemical additives	0	—	0	—	—
3299 chem. products nec	0	0	—	—	—

CLEVELAND HARBOR, OH
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Foreign		Canadian	
		Imports*	Exports	Imports	Exports
Total crude materials, inedible except fuels	1,707	0	2	1,547	158
Subtotal forest products, wood and chips	0	0	0	—	—
4170 wood in the rough	0	—	0	—	—
4189 lumber	0	0	0	—	—
Subtotal soil, sand, gravel, rock and stone	970	—	0	967	3
4322 limestone	0	—	0	—	—
4327 phosphate rock	3	—	—	—	3
4331 sand & gravel	967	—	—	967	—
Subtotal iron ore and scrap	173	—	0	173	—
4410 iron ore	167	—	—	167	—
4420 iron & steel scrap	6	—	0	6	—
Subtotal non-ferrous ores and scrap	0	0	0	—	—
4630 copper ore	0	—	0	—	—
4650 aluminum ore	0	0	0	—	—
4690 non-ferrous ores nec	0	0	—	—	—
Subtotal sulphur, clay and salt	377	—	2	375	—
4782 clay & refrac. mat.	377	—	2	375	—
Subtotal slag	0	—	—	0	—
4860 slag	0	—	—	0	—
Subtotal other non-metal. min.	187	—	—	31	155
4900 non-metal. min. nec	187	—	—	31	155
Total primary manufactured goods	1,547	906	1	640	—
Subtotal lime, cement and glass	640	0	1	640	—
5220 cement & concrete	640	—	—	640	—
5240 glass & glass prod.	0	0	—	—	—
5290 misc. mineral prod.	1	—	1	—	—
Subtotal primary iron and steel products	893	892	0	0	—
5312 pig iron	0	0	—	—	—
5320 i&s primary forms	189	189	—	—	—
5330 i&s plates & sheets	619	619	0	0	—
5360 i&s bars & shapes	63	63	0	—	—
5370 i&s pipe & tube	5	5	0	—	—
5390 primary i&s nec	17	17	—	—	—
Subtotal primary non-ferrous metal products	14	14	0	0	—
5421 copper	0	0	—	—	—
5422 aluminum	0	0	0	—	—
5429 smelted prod. nec	12	12	—	—	—
5480 fab. metal products	1	1	0	0	—
Subtotal primary wood products	0	0	—	—	—
5540 primary wood prod.	0	0	—	—	—
Total food and farm products	0	0	0	—	—
Subtotal fish	0	—	0	—	—
6134 fish (not shellfish)	0	—	0	—	—
Subtotal processed grain and animal feed	0	—	0	—	—
6747 grain mill products	0	—	0	—	—
Subtotal other agricultural products	0	0	0	—	—
6817 meat, prepared	0	—	0	—	—
6885 alcoholic beverages	0	0	—	—	—
Total all manufactured equipment, machinery and products	4	2	2	0	—
7110 machinery (not elec)	2	1	0	0	—
7120 electrical machinery	0	0	0	—	—
7210 vehicles & parts	0	0	—	—	—
7220 aircraft & parts	0	0	—	—	—
7230 ships & boats	0	0	—	—	—
7500 textile products	0	0	0	—	—
7600 rubber & plastic pr.	2	0	2	—	—
7900 manufac. prod. nec	0	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	14,774	13,949	535	14	275
Total coal	186	175	11	—	—
1100 coal lignite	95	84	11	—	—
1200 coal coke	91	91	—	—	—
Total petroleum and petroleum products	416	399	3	14	—
Subtotal petroleum products	416	399	3	14	—
2330 distillate fuel oil	9	9	—	—	—
2340 residual fuel oil	159	155	—	4	—
2430 asphalt, tar & pitch	243	234	3	5	—
2540 petroleum coke	5	—	—	5	—
Total crude materials, inedible except fuels	13,963	13,182	505	—	275
Subtotal soil, sand, gravel, rock and stone	4,978	4,978	—	—	—
4322 limestone	4,875	4,875	—	—	—
4331 sand & gravel	103	103	—	—	—
Subtotal iron ore and scrap	8,471	8,204	—	—	267
4410 iron ore	8,471	8,204	—	—	267
Subtotal slag	107	—	107	—	—
4860 slag	107	—	107	—	—

CLEVELAND HARBOR, OH
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Total	Domestic			
		Lakewise		Internal	
		Receipts	Shipments	Receipts	Inraport
Subtotal other non-metal. min.	407	—	398	—	9
4900 non-metal. min. nec	407	—	398	—	9
Total primary manufactured goods	210	193	16	—	—
Subtotal lime, cement and glass	210	193	16	—	—
5220 cement & concrete	210	193	16	—	—

*Includes 0 (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
1988	2,212	1991	2,052	1994	2,955	1997	3,296
1989	2,634	1992	2,613	1995	2,941		
1990	2,320	1993	2,403	1996	2,770		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	
					Receipts	Shipments
Total, all commodities	3,296	80	304	2,913	2,361	552
Total crude materials, inedible except fuels	3,296	80	304	2,913	2,361	552
Subtotal soil, sand, gravel, rock and stone	2,422	51	—	2,371	2,361	11
4322 limestone	2,245	—	—	2,245	2,235	10
4331 sand & gravel	176	51	—	126	125	1
Subtotal iron ore and scrap	29	29	—	—	—	—
4410 iron ore	29	29	—	—	—	—
Subtotal other non-metal. min.	846	—	304	542	—	542
4900 non-metal. min. nec	846	—	304	542	—	542

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
1988	10,335	1991	10,638	1994	10,368	1997	11,929
1989	10,322	1992	10,519	1995	10,010		
1990	11,852	1993	8,979	1996	9,523		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign Imports	Canadian		Domestic		
			Imports	Exports	Total	Lakewise	
						Receipts	Shipments
Total, all commodities	11,928	277	433	5,577	5,641	3,527	2,113
Total coal	7,682	—	13	5,577	2,091	—	2,091
1100 coal lignite	7,638	—	—	5,547	2,091	—	2,091
1200 coal coke	43	—	13	30	—	—	—

ASHTABULA HARBOR, OH
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign			Domestic		
		Imports	Canadian		Total	Lakewise	
			Imports	Exports		Receipts	Shipments
Total crude materials, inedible except fuels	4,229	277	402	—	3,550	3,527	22
Subtotal soil, sand, gravel, rock and stone	724	—	—	—	724	724	—
4322 limestone	724	—	—	—	724	724	—
Subtotal iron ore and scrap	3,197	—	394	—	2,803	2,803	—
4410 iron ore	3,187	—	384	—	2,803	2,803	—
4420 iron & steel scrap	10	—	10	—	—	—	—
Subtotal non-ferrous ores and scrap	268	268	—	—	—	—	—
4680 non-ferrous scrap	215	215	—	—	—	—	—
4690 non-ferrous ores nec	53	53	—	—	—	—	—
Subtotal sulphur, clay and salt	9	9	—	—	—	—	—
4782 clay & refrac. mat.	9	9	—	—	—	—	—
Subtotal slag	31	—	9	—	22	—	22
4860 slag	31	—	9	—	22	—	22
Total primary manufactured goods	17	0	17	—	—	—	—
Subtotal lime, cement and glass	17	—	17	—	—	—	—
5220 cement & concrete	17	—	17	—	—	—	—
Subtotal primary iron and steel products	0	0	—	—	—	—	—
5330 i&s plates & sheets	0	0	—	—	—	—	—

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
1988	10,220	1991	6,336	1994	5,655	1997	6,205
1989	8,890	1992	6,540	1995	5,612		
1990	9,567	1993	3,534	1996	5,714		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	
					Receipts	Shipments
Total, all commodities	6,205	59	1,941	4,205	3,298	907
Total coal	2,621	—	1,703	918	11	907
1100 coal lignite	2,551	—	1,633	918	11	907
1200 coal coke	70	—	70	—	—	—
Total petroleum and petroleum products	23	—	23	—	—	—
Subtotal petroleum products	23	—	23	—	—	—
2540 petroleum coke	23	—	23	—	—	—
Total crude materials, inedible except fuels	3,561	59	214	3,287	3,287	—
Subtotal soil, sand, gravel, rock and stone	838	—	18	820	820	—
4322 limestone	736	—	—	736	736	—
4323 gypsum	85	—	—	85	85	—
4327 phosphate rock	18	—	18	—	—	—
Subtotal iron ore and scrap	2,526	59	—	2,467	2,467	—
4410 iron ore	2,471	59	—	2,412	2,412	—
4420 iron & steel scrap	55	—	—	55	55	—
Subtotal other non-metal. min.	197	—	197	—	—	—
4900 non-metal. min. nec	197	—	197	—	—	—

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
1988	1,002	1991	1,008	1994	979	1997	1,163
1989	734	1992	1,247	1995	1,057		
1990	811	1993	1,160	1996	1,434		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian	Domestic
		Imports	Exports	Imports	Lakewise Receipts
Total, all commodities	1,163	2	3	90	1,068
Total crude materials, inedible except fuels	1,153	—	—	85	1,068
Subtotal soil, sand, gravel, rock and stone	1,022	—	—	15	1,007
4322 limestone	783	—	—	—	783
4331 sand & gravel	238	—	—	15	224
Subtotal iron ore and scrap	27	—	—	27	—
4410 iron ore	27	—	—	27	—
Subtotal sulphur, clay and salt	19	—	—	19	—
4782 clay & refrac. mat.	19	—	—	19	—
Subtotal other non-metal. min.	85	—	—	24	61
4900 non-metal. min. nec	85	—	—	24	61
Total primary manufactured goods	6	1	—	4	—
Subtotal primary iron and steel products	6	1	—	4	—
5312 pig iron	4	—	—	4	—
5330 i&s plates & sheets	1	1	—	—	—
5360 i&s bars & shapes	0	0	—	—	—
5390 primary i&s nec	0	0	—	—	—
Total all manufactured equipment, machinery and products	4	1	3	—	—
7120 electrical machinery	1	1	—	—	—
7900 manufac. prod. nec	3	0	3	—	—
Total unknown or not elsewhere classified	0	0	—	—	—
9900 unknown or nec	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
1988	0	1991	0	1994	361	1997	446
1989	0	1992	0	1995	374		
1990	0	1993	20	1996	398		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Lakewise Receipts
Total, all commodities	446	446
Total coal	446	446
1100 coal lignite	446	446

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
1988	1,335	1991	1,471	1994	1,399	1997	1,631
1989	1,564	1992	1,803	1995	1,507		
1990	2,002	1993	1,539	1996	1,590		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise	
							Receipts	Shipments
Total, all commodities	1,631	2	49	755	3	821	805	17
Total petroleum and petroleum products	208	—	0	184	—	24	7	17
Subtotal petroleum products	208	—	0	184	—	24	7	17
2211 gasoline	180	—	—	173	—	7	7	—
2340 residual fuel oil	6	—	—	6	—	—	—	—
2350 lube oil & greases	0	—	0	—	—	—	—	—
2430 asphalt, tar & pitch	17	—	—	—	—	17	—	17
2540 petroleum coke	6	—	—	6	—	—	—	—
Total chemicals and related products	6	0	6	0	0	—	—	—
Subtotal fertilizers	0	—	0	—	—	—	—	—
3190 fert. & mixes nec	0	—	0	—	—	—	—	—
Subtotal other chemicals and related products	6	0	6	0	0	—	—	—
3230 carboxylic acids	0	—	0	—	—	—	—	—
3240 nitrogen func. comp.	0	0	0	—	—	—	—	—
3250 organo-inorganic comp.	0	—	0	—	—	—	—	—
3260 organic comp. nec	1	—	1	—	—	—	—	—
3275 inorg. elem. oxides, & halogen salts	1	0	1	—	—	—	—	—
3276 metallic salts	0	—	0	—	—	—	—	—
3282 pigments & paints	0	—	0	—	—	—	—	—
3283 coloring mat. nec	0	—	0	—	—	—	—	—
3284 medicines	0	—	0	—	—	—	—	—
3285 perfumes & cleansers	1	—	1	0	—	—	—	—
3286 plastics	2	0	2	—	0	—	—	—
3291 pesticides	0	—	0	—	0	—	—	—
3297 chemical additives	1	—	1	—	—	—	—	—
3298 wood & resin chem.	0	—	0	—	—	—	—	—
3299 chem. products nec	0	—	0	—	—	—	—	—
Total crude materials, inedible except fuels	683	—	8	310	—	365	365	—
Subtotal forest products, wood and chips	1	—	1	—	—	—	—	—
4189 lumber	0	—	0	—	—	—	—	—
4190 forest products nec	1	—	1	—	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	205	—	3	—	—	202	202	—
4310 building stone	0	—	0	—	—	—	—	—
4322 limestone	108	—	—	—	—	108	108	—
4323 gypsum	11	—	—	—	—	11	11	—
4331 sand & gravel	86	—	3	—	—	83	83	—
Subtotal non-ferrous ores and scrap	3	—	3	—	—	—	—	—
4650 aluminum ore	3	—	3	—	—	—	—	—
4680 non-ferrous scrap	0	—	0	—	—	—	—	—
Subtotal sulphur, clay and salt	0	—	0	—	—	—	—	—
4782 clay & refrac. mat.	0	—	0	—	—	—	—	—
Subtotal other non-metal. min.	474	—	2	310	—	163	163	—
4900 non-metal. min. nec	474	—	2	310	—	163	163	—
Total primary manufactured goods	195	0	7	167	0	20	20	—
Subtotal paper products	1	—	1	0	0	—	—	—
5110 newsprint	0	—	—	0	—	—	—	—
5120 paper & paperboard	1	—	1	0	0	—	—	—
5190 paper products nec	0	—	0	—	—	—	—	—

BUFFALO HARBOR, NY (INCLUDED IN PORT OF BUFFALO)
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise	
							Receipts	Shipments
Subtotal lime, cement and glass	189	0	2	167	—	20	20	—
5220 cement & concrete	187	—	—	167	—	20	20	—
5240 glass & glass prod.	2	0	2	—	—	—	—	—
5290 misc. mineral prod.	0	0	0	—	—	—	—	—
Subtotal primary iron and steel products	0	0	0	—	0	—	—	—
5330 i&s plates & sheets	0	0	0	—	0	—	—	—
5370 i&s pipe & tube	0	0	0	—	—	—	—	—
Subtotal primary non-ferrous metal products	4	0	4	—	0	—	—	—
5422 aluminum	0	—	—	—	0	—	—	—
5480 fab. metal products	4	0	4	—	—	—	—	—
Total food and farm products	509	0	3	93	0	413	413	—
Subtotal grain	487	—	1	73	—	413	413	—
6241 wheat	485	—	—	73	—	413	413	—
6344 corn	1	—	1	—	—	—	—	—
Subtotal vegetable products	0	—	0	—	—	—	—	—
6653 vegetable oils	0	—	0	—	—	—	—	—
Subtotal processed grain and animal feed	21	—	0	21	—	—	—	—
6747 grain mill products	0	—	0	—	—	—	—	—
6782 animal feed, prep.	21	—	0	21	—	—	—	—
Subtotal other agricultural products	1	0	1	—	0	—	—	—
6817 meat, prepared	0	0	—	—	—	—	—	—
6839 animals & prod. nec	0	0	—	—	—	—	—	—
6858 fruit juices	0	—	0	—	—	—	—	—
6861 sugar	0	—	0	—	—	—	—	—
6871 coffee	0	0	—	—	0	—	—	—
6885 alcoholic beverages	0	0	—	—	—	—	—	—
6889 food products nec	0	—	0	—	0	—	—	—
Total all manufactured equipment, machinery and products	27	2	25	1	0	—	—	—
7110 machinery (not elec)	10	0	10	0	0	—	—	—
7120 electrical machinery	4	2	2	0	—	—	—	—
7210 vehicles & parts	6	—	6	0	—	—	—	—
7230 ships & boats	0	—	0	0	—	—	—	—
7300 ordnance & access.	0	—	0	—	—	—	—	—
7400 manufac. wood prod.	1	0	1	—	—	—	—	—
7500 textile products	0	0	0	0	—	—	—	—
7600 rubber & plastic pr.	4	0	4	0	0	—	—	—
7900 manufac. prod. nec	2	0	2	0	—	—	—	—
Total unknown or not elsewhere classified	2	0	—	0	2	—	—	—
9900 unknown or nec	2	0	—	0	2	—	—	—

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
1988	196	1991	284	1994	286	1997	263
1989	581	1992	670	1995	365		
1990	560	1993	570	1996	274		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian	Domestic		
		Through Downbd	Total	Lakewise	
				Receipts	Shipments
Total, all commodities	263	14	249	247	2
Total coal	31	—	31	31	—
1100 coal lignite	31	—	31	31	—
Total petroleum and petroleum products	232	14	218	216	2
Subtotal petroleum products	232	14	218	216	2
2211 gasoline	27	14	13	13	—
2330 distillate fuel oil	23	—	23	23	—
2430 asphalt, tar & pitch	182	—	182	180	2

NIAGARA RIVER, NY (INCLUDED IN PORT OF BUFFALO)
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Canadian	Domestic		
		Through Downbrnd	Total	Lakewise Receipts Shipments	
Ton-miles (x1000)	2,012	180	1,833	1,817	16
Tons All Traffic (x1000)	263				
Ton-miles All Traffic (x1000)	2,012				

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
1988	1,335	1991	1,895	1994	1,685	1997	1,894
1989	2,145	1992	2,473	1995	1,873		
1990	2,563	1993	2,109	1996	1,864		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise Receipts Shipments	
Total, all commodities	1,894	2	49	769	3	1,071	1,052	19
Total coal	31	—	—	—	—	31	31	—
1100 coal lignite	31	—	—	—	—	31	31	—
Total petroleum and petroleum products	440	—	0	198	—	242	223	19
Subtotal petroleum products	440	—	0	198	—	242	223	19
2211 gasoline	207	—	—	187	—	20	20	—
2330 distillate fuel oil	23	—	—	—	—	23	23	—
2340 residual fuel oil	6	—	—	6	—	—	—	—
2350 lube oil & greases	0	—	0	—	—	—	—	—
2430 asphalt, tar & pitch	199	—	—	—	—	199	180	19
2540 petroleum coke	6	—	—	6	—	—	—	—
Total chemicals and related products	6	0	6	0	0	—	—	—
Subtotal fertilizers	0	—	0	—	—	—	—	—
3190 fert. & mixes nec	0	—	0	—	—	—	—	—
Subtotal other chemicals and related products	6	0	6	0	0	—	—	—
3230 carboxylic acids	0	—	0	—	—	—	—	—
3240 nitrogen func. comp.	0	0	0	—	—	—	—	—
3250 organo-inorganic comp.	0	—	0	—	—	—	—	—
3260 organic comp. nec	1	—	1	—	—	—	—	—
3275 inorg. elem. oxides, & halogen salts	1	0	1	—	—	—	—	—
3276 metallic salts	0	—	0	—	—	—	—	—
3282 pigments & paints	0	—	0	—	—	—	—	—
3283 coloring mat. nec	0	—	0	—	—	—	—	—
3284 medicines	0	—	0	—	—	—	—	—
3285 perfumes & cleansers	1	—	1	0	—	—	—	—
3286 plastics	2	0	2	—	0	—	—	—
3291 pesticides	0	—	0	—	0	—	—	—
3297 chemical additives	1	—	1	—	—	—	—	—
3298 wood & resin chem.	0	—	0	—	—	—	—	—
3299 chem. products nec	0	—	0	—	—	—	—	—
Total crude materials, inedible except fuels	683	—	8	310	—	365	365	—
Subtotal forest products, wood and chips	1	—	1	—	—	—	—	—
4189 lumber	0	—	0	—	—	—	—	—
4190 forest products nec	1	—	1	—	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	205	—	3	—	—	202	202	—
4310 building stone	0	—	0	—	—	—	—	—
4322 limestone	108	—	—	—	—	108	108	—
4323 gypsum	11	—	—	—	—	11	11	—
4331 sand & gravel	86	—	3	—	—	83	83	—
Subtotal non-ferrous ores and scrap	3	—	3	—	—	—	—	—
4650 aluminum ore	3	—	3	—	—	—	—	—
4680 non-ferrous scrap	0	—	0	—	—	—	—	—
Subtotal sulphur, clay and salt	0	—	0	—	—	—	—	—
4782 clay & refrac. mat.	0	—	0	—	—	—	—	—

PORT OF BUFFALO, NY
Freight Traffic, 1997 - continued
(thousand short tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise	
							Receipts	Shipments
Subtotal other non-metal. min.	474	—	2	310	—	163	163	—
4900 non-metal. min. nec	474	—	2	310	—	163	163	—
Total primary manufactured goods	195	0	7	167	0	20	20	—
Subtotal paper products	1	—	1	0	0	—	—	—
5110 newsprint	0	—	—	0	—	—	—	—
5120 paper & paperboard	1	—	1	0	0	—	—	—
5190 paper products nec	0	—	0	—	—	—	—	—
Subtotal lime, cement and glass	189	0	2	167	—	20	20	—
5220 cement & concrete	187	—	—	167	—	20	20	—
5240 glass & glass prod.	2	0	2	—	—	—	—	—
5290 misc. mineral prod.	0	0	0	—	—	—	—	—
Subtotal primary iron and steel products	0	0	0	—	0	—	—	—
5330 i&s plates & sheets	0	0	0	—	0	—	—	—
5370 i&s pipe & tube	0	0	0	—	0	—	—	—
Subtotal primary non-ferrous metal products	4	0	4	—	0	—	—	—
5422 aluminum	0	—	—	—	0	—	—	—
5480 fab. metal products	4	0	4	—	0	—	—	—
Total food and farm products	509	0	3	93	0	413	413	—
Subtotal grain	487	—	1	73	—	413	413	—
6241 wheat	485	—	—	73	—	413	413	—
6344 corn	1	—	1	—	—	—	—	—
Subtotal vegetable products	0	—	0	—	—	—	—	—
6653 vegetable oils	0	—	0	—	—	—	—	—
Subtotal processed grain and animal feed	21	—	0	21	—	—	—	—
6747 grain mill products	0	—	0	—	—	—	—	—
6782 animal feed, prep.	21	—	0	21	—	—	—	—
Subtotal other agricultural products	1	0	1	—	0	—	—	—
6817 meat, prepared	0	0	—	—	—	—	—	—
6839 animals & prod. nec	0	0	—	—	—	—	—	—
6858 fruit juices	0	—	0	—	—	—	—	—
6861 sugar	0	—	0	—	—	—	—	—
6871 coffee	0	0	—	—	0	—	—	—
6885 alcoholic beverages	0	0	—	—	—	—	—	—
6889 food products nec	0	—	0	—	0	—	—	—
Total all manufactured equipment, machinery and products	27	2	25	1	0	—	—	—
7110 machinery (not elec)	10	0	10	0	0	—	—	—
7120 electrical machinery	4	2	2	0	—	—	—	—
7210 vehicles & parts	6	—	6	0	—	—	—	—
7230 ships & boats	0	—	0	0	—	—	—	—
7300 ordnance & access.	0	—	0	—	—	—	—	—
7400 manufac. wood prod.	1	0	1	—	—	—	—	—
7500 textile products	0	0	0	0	—	—	—	—
7600 rubber & plastic pr.	4	0	4	0	0	—	—	—
7900 manufac. prod. nec	2	0	2	0	—	—	—	—
Total unknown or not elsewhere classified	2	0	—	0	2	—	—	—
9900 unknown or nec	2	0	—	0	2	—	—	—

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
1988	531	1991	818	1994	474	1997	640
1989	746	1992	582	1995	435		
1990	951	1993	506	1996	511		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Canadian	
		Imports	Exports
Total, all commodities	640	629	11
Total petroleum and petroleum products	244	244	—
Subtotal petroleum products	244	244	—
2211 gasoline	99	99	—
2340 residual fuel oil	52	52	—
2540 petroleum coke	92	92	—
Total chemicals and related products	79	70	9
Subtotal fertilizers	19	19	—
3110 nitrogenous fert.	5	5	—
3130 potassic fert.	14	14	—
Subtotal other chemicals and related products	60	51	9
3276 metallic salts	60	51	9
Total crude materials, inedible except fuels	56	56	—
Subtotal other non-metal. min.	56	56	—
4900 non-metal. min. nec	56	56	—
Total primary manufactured goods	260	260	—
Subtotal paper products	0	0	—
5110 newsprint	0	0	—
Subtotal lime, cement and glass	259	259	—
5220 cement & concrete	259	259	—
5240 glass & glass prod.	0	0	—
5290 misc. mineral prod.	0	0	—
Subtotal primary non-ferrous metal products	1	1	—
5422 aluminum	1	1	—
Total food and farm products	0	0	—
Subtotal other agricultural products	0	0	—
6889 food products nec	0	0	—
Total all manufactured equipment, machinery and products	2	0	2
7110 machinery (not elec)	2	—	2
7230 ships & boats	0	0	—
7900 manufac. prod. nec	0	0	—

Other Harbors and Waterways 1997

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	3260 organic comp. nec	0
	3286 plastics	3
	4322 limestone	17
	4900 non-metal. min. nec	117
	6782 animal feed, prep.	12
	7110 machinery (not elec)	0
	Total Tons(x1000)	149
PORT CLINTON HARBOR, OH	No Commerce Reported	
ROCHESTER (CHARLOTTE) HARBOR, NY	3110 nitrogenous fert.	5
	3299 chem. products nec	0
	4335 waterway improv. mat	4
	5220 cement & concrete	131
	5240 glass & glass prod.	0
	5290 misc. mineral prod.	0
	6885 alcoholic beverages	0
	7120 electrical machinery	0
	7230 ships & boats	0
	7900 manufac. prod. nec	0
	Total Tons(x1000)	140
SACKETS HARBOR, NY	2640 liquid natural gas	0
	7110 machinery (not elec)	0
	Total Tons(x1000)	0
TONAWANDA HARBOR, NY (INCLUDED IN PORT OF BUFFALO)	2211 gasoline	14
	Total Tons(x1000)	14
	Total Ton-miles(x1000)	69
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
1988	37,816	1991	39,800	1994	45,265	1997	38,619
1989	36,617	1992	39,741	1995	41,734		
1990	39,659	1993	42,600	1996	39,679		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	38,619	5,676	852	1,659	18,060	8,687	3,389	84	213
Total coal	3,182	1,343	—	66	30	1,613	130	—	—
1100 coal lignite	2,546	1,320	—	—	21	1,203	2	—	—
1200 coal coke	637	23	—	66	9	410	128	—	—
Total petroleum and petroleum products	4,829	974	244	604	756	832	1,280	—	140
Subtotal crude petroleum	7	—	—	—	—	—	7	—	—
2100 crude petroleum	7	—	—	—	—	—	7	—	—
Subtotal petroleum products	4,822	974	244	604	756	832	1,273	—	140
2211 gasoline	386	347	29	—	6	—	—	—	3
2330 distillate fuel oil	584	110	17	—	15	190	241	—	11
2340 residual fuel oil	777	108	91	95	187	72	224	—	—
2350 lube oil & greases	315	82	—	—	—	158	74	—	—
2429 naphtha & solvents	149	92	11	—	—	28	18	—	—
2430 asphalt, tar & pitch	943	215	45	202	100	185	196	—	—
2540 petroleum coke	1,645	7	50	306	448	199	510	—	126
2990 petro. products nec	23	13	—	—	—	—	10	—	—
Total chemicals and related products	4,443	2,192	44	150	473	1,256	210	78	42
Subtotal fertilizers	1,052	805	—	8	51	82	—	64	42
3110 nitrogenous fert.	558	475	—	8	—	75	—	—	—
3120 phosphatic fert.	41	26	—	—	5	6	—	1	3
3130 potassic fert.	189	41	—	—	47	—	—	63	38
3190 fert. & mixes nec	263	262	—	—	—	2	—	—	—
Subtotal other chemicals and related products	3,392	1,387	44	141	421	1,174	210	14	—
3211 acyclic hydrocarbons	4	4	—	—	—	—	—	—	—
3212 benzene & toluene	103	5	—	—	—	4	94	—	—
3219 other hydrocarbons	946	821	23	—	—	71	31	—	—
3220 alcohols	1,111	77	14	141	416	400	48	14	—
3230 carboxylic acids	14	12	—	—	—	2	—	—	—
3240 nitrogen func. comp.	1	—	—	—	—	1	—	—	—
3260 organic comp. nec	50	13	—	—	—	37	—	—	—
3272 sulphuric acid	4	—	—	—	—	4	—	—	—
3273 ammonia	330	330	—	—	—	—	—	—	—
3274 sodium hydroxide	553	—	—	—	—	553	—	—	—
3275 inorg. elem., oxides, & halogen salts	104	35	—	—	—	68	—	—	—
3276 metallic salts	48	1	7	—	—	7	33	—	—
3279 inorganic chem. nec	103	72	—	—	6	25	—	—	—
3286 plastics	3	3	—	—	—	—	—	—	—
3297 chemical additives	12	10	—	—	—	2	—	—	—
3299 chem. products nec	7	3	—	—	—	—	4	—	—

ILLINOIS RIVER, IL (INCLUDED IN THE ILLINOIS WATERWAY CONSOLIDATED)
 Freight Traffic, 1997 - 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	4,646	836	491	814	78	1,780	625	—	22
Subtotal forest products, wood and chips	226	116	—	1	2	107	—	—	—
4161 wood chips	218	111	—	1	2	104	—	—	—
4190 forest products nec	8	5	—	—	—	3	—	—	—
Subtotal soil, sand, gravel, rock and stone	1,572	231	300	811	64	78	66	—	22
4322 limestone	123	90	—	—	3	30	—	—	—
4323 gypsum	28	—	—	—	28	—	—	—	—
4327 phosphate rock	22	22	—	—	—	—	—	—	—
4331 sand & gravel	1,394	117	300	811	32	47	65	—	22
4335 waterway improv. mat	3	—	—	—	—	1	2	—	—
4338 soil & fill dirt	2	2	—	—	—	—	—	—	—
Subtotal iron ore and scrap	813	153	183	—	5	61	411	—	—
4410 iron ore	108	—	—	—	3	41	64	—	—
4420 iron & steel scrap	705	153	183	—	2	20	347	—	—
Subtotal non-ferrous ores and scrap	52	11	—	—	—	41	—	—	—
4650 aluminum ore	9	—	—	—	—	9	—	—	—
4670 manganese ore	27	—	—	—	—	27	—	—	—
4690 non-ferrous ores nec	16	11	—	—	—	4	—	—	—
Subtotal sulphur, clay and salt	25	7	—	—	—	16	3	—	—
4782 clay & refrac. mat.	25	7	—	—	—	16	3	—	—
Subtotal slag	305	5	8	2	8	142	140	—	—
4860 slag	305	5	8	2	8	142	140	—	—
Subtotal other non-metal. min. min. nec	1,654	314	—	—	—	1,335	4	—	—
4900 non-metal. min. nec	1,654	314	—	—	—	1,335	4	—	—
Total primary manufactured goods	3,833	229	72	—	46	3,081	405	—	—
Subtotal lime, cement and glass	960	3	—	—	—	954	3	—	—
5210 lime	4	3	—	—	—	1	—	—	—
5220 cement & concrete	954	—	—	—	—	951	3	—	—
5290 misc. mineral prod.	2	—	—	—	—	2	—	—	—
Subtotal primary iron and steel products	2,660	220	70	—	46	1,935	390	—	—
5312 pig iron	390	77	—	—	—	310	3	—	—
5315 ferro alloys	199	5	—	—	3	187	3	—	—
5320 i&s primary forms	478	10	—	—	—	467	2	—	—
5330 i&s plates & sheets	1,084	72	37	—	9	601	365	—	—
5360 i&s bars & shapes	221	41	33	—	34	114	—	—	—
5370 i&s pipe & tube	5	—	—	—	—	5	—	—	—
5390 primary i&s nec	283	15	—	—	—	250	17	—	—
Subtotal primary non-ferrous metal products	213	7	1	—	—	193	12	—	—
5422 aluminum	3	—	—	—	—	3	—	—	—
5429 smelted prod. nec	26	1	—	—	—	24	—	—	—
5480 fab. metal products	184	5	1	—	—	165	12	—	—
Total food and farm products	17,637	96	2	26	16,672	94	731	6	10
Subtotal grain	11,473	31	2	—	11,018	1	409	5	7
6241 wheat	402	24	2	—	290	1	85	—	—
6344 corn	11,052	6	—	—	10,711	—	324	5	7
6442 rice	2	2	—	—	—	—	—	—	—
6447 sorghum grains	17	—	—	—	17	—	—	—	—

ILLINOIS RIVER, IL (INCLUDED IN THE ILLINOIS WATERWAY CONSOLIDATED)
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Subtotal oilseeds	4,616	6	—	26	4,271	3	307	—	3
6522 soybeans	4,523	3	—	26	4,180	3	307	—	3
6590 oilseeds nec	93	3	—	—	90	—	—	—	—
Subtotal vegetable products	8	—	—	—	7	—	1	—	—
6653 vegetable oils	8	—	—	—	7	—	1	—	—
Subtotal processed grain and animal feed	1,280	34	—	—	1,231	—	14	1	—
6747 grain mill products	108	1	—	—	107	—	—	—	—
6782 animal feed, prep.	1,172	33	—	—	1,124	—	14	1	—
Subtotal other agricultural products	260	25	—	—	146	89	—	—	—
6839 animals & prod. nec	1	—	—	—	1	—	—	—	—
6861 sugar	70	—	—	—	—	70	—	—	—
6865 molasses	44	25	—	—	—	19	—	—	—
6885 alcoholic beverages	145	—	—	—	145	—	—	—	—
Total all manufactured equipment, machinery and products	48	4	—	—	5	30	9	—	—
7110 machinery (not elec)	7	0	—	—	1	6	1	—	—
7400 manufac. wood prod.	25	—	—	—	—	25	—	—	—
7500 textile products	4	4	—	—	—	—	—	—	—
7600 rubber & plastic pr.	12	—	—	—	5	—	8	—	—
Ton-miles (x1000)	8,097,896	1,154,659	97,577	89,372	3,221,614	2,527,778	986,270	5,898	14,727

Tons All Traffic (x1000) **38,619**
Ton-miles All Traffic (x1000) **8,097,896**

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
1988	7,075	1991	7,367	1994	12,874	1997	10,041
1989	6,544	1992	7,633	1995	12,077		
1990	7,621	1993	7,430	1996	12,636		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Internal					
		Inbound		Outbound		Through	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	10,041	279	4	57	354	5,318	4,030
Total coal	3,358	—	—	—	—	1,561	1,797
1100 coal lignite	2,841	—	—	—	—	1,093	1,748
1200 coal coke	517	—	—	—	—	469	49
Total petroleum and petroleum products	2,097	18	—	57	316	903	802
Subtotal petroleum products	2,097	18	—	57	316	903	802
2211 gasoline	27	—	—	—	17	—	10
2330 distillate fuel oil	143	13	—	10	14	40	67
2340 residual fuel oil	189	—	—	40	24	81	44
2350 lube oil & greases	96	—	—	—	12	24	59
2429 naphtha & solvents	11	—	—	6	4	—	1
2430 asphalt, tar & pitch	459	—	—	—	30	87	341
2540 petroleum coke	1,168	5	—	2	214	668	279
2990 petro. products nec	4	—	—	—	—	4	—
Total chemicals and related products	707	189	4	—	23	303	188
Subtotal fertilizers	86	—	—	—	—	86	—
3110 nitrogenous fert.	81	—	—	—	—	81	—
3120 phosphatic fert.	4	—	—	—	—	4	—

CALUMET-SAG CHANNEL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Internal					
		Inbound		Outbound		Through	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Subtotal other chemicals and related products	621	189	4	—	23	218	188
3212 benzene & toluene	57	6	1	—	—	1	49
3219 other hydrocarbons	42	—	—	—	—	31	11
3220 alcohols	281	162	2	—	23	12	82
3240 nitrogen func. comp.	1	—	—	—	—	1	—
3260 organic comp. nec	16	5	—	—	—	12	—
3272 sulphuric acid	4	—	—	—	—	4	—
3274 sodium hydroxide	127	—	—	—	—	127	—
3275 inorg. elem., oxides, & halogen salts	2	—	—	—	—	2	—
3276 metallic salts	60	15	—	—	—	3	41
3279 inorganic chem. nec	25	—	—	—	—	25	—
3297 chemical additives	2	2	—	—	—	—	—
3299 chem. products nec	4	—	—	—	—	—	4
Total crude materials, inedible except fuels	1,401	27	—	—	3	799	572
Subtotal forest products, wood and chips	1	—	—	—	—	1	—
4161 wood chips	1	—	—	—	—	1	—
Subtotal soil, sand, gravel, rock and stone	256	18	—	—	—	91	147
4322 limestone	30	12	—	—	—	18	—
4331 sand & gravel	158	6	—	—	—	71	80
4335 waterway improv. mat	68	—	—	—	—	1	66
Subtotal iron ore and scrap	338	4	—	—	3	57	274
4410 iron ore	105	—	—	—	—	41	64
4420 iron & steel scrap	233	4	—	—	3	16	210
Subtotal non-ferrous ores and scrap	39	—	—	—	—	9	—
4650 aluminum ore	9	—	—	—	—	9	—
4670 manganese ore	25	—	—	—	—	25	—
4690 non-ferrous ores nec	4	—	—	—	—	4	—
Subtotal sulphur, clay and salt	15	—	—	—	—	12	3
4782 clay & refrac. mat.	15	—	—	—	—	12	3
Subtotal slag	289	5	—	—	—	138	147
4860 slag	289	5	—	—	—	138	147
Subtotal other non-metal. min.	462	—	—	—	—	461	2
4900 non-metal. min. nec	462	—	—	—	—	461	2
Total primary manufactured goods	2,181	29	—	—	—	1,676	475
Subtotal lime, cement and glass	18	—	—	—	—	17	2
5220 cement & concrete	18	—	—	—	—	17	2
Subtotal primary iron and steel products	2,043	29	—	—	—	1,553	460
5312 pig iron	302	29	—	—	—	270	3
5315 ferro alloys	190	—	—	—	—	186	3
5320 i&s primary forms	450	—	—	—	—	449	2
5330 i&s plates & sheets	841	—	—	—	—	439	402
5360 i&s bars & shapes	60	—	—	—	—	27	33
5370 i&s pipe & tube	1	—	—	—	—	1	—
5390 primary i&s nec	199	—	—	—	—	182	17
Subtotal primary non-ferrous metal products	119	—	—	—	—	106	13
5422 aluminum	3	—	—	—	—	3	—
5429 smelted prod. nec	18	—	—	—	—	18	—
5480 fab. metal products	98	—	—	—	—	85	13
Total food and farm products	291	16	—	—	11	69	195
Subtotal grain	71	—	—	—	—	—	71
6241 wheat	44	—	—	—	—	—	44
6344 corn	26	—	—	—	—	—	26
Subtotal oilseeds	155	—	—	—	—	33	123
6522 soybeans	155	—	—	—	—	33	123
Subtotal processed grain and animal feed	13	—	—	—	11	—	2
6782 animal feed, prep.	13	—	—	—	11	—	2
Subtotal other agricultural products	52	16	—	—	—	37	—
6861 sugar	34	—	—	—	—	34	—
6865 molasses	19	16	—	—	—	3	—
Total all manufactured equipment, machinery and products	6	—	—	—	—	6	1
7110 machinery (not elec)	6	—	—	—	—	6	1
Ton-miles (x1000)	233,884	4,141	41	631	4,724	127,631	96,717
Tons All Traffic (x1000)	10,041						
Ton-miles All Traffic (x1000)	233,884						

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
1988	17,747	1991	18,763	1994	24,591	1997	18,900
1989	16,908	1992	17,966	1995	19,704		
1990	18,643	1993	18,813	1996	20,493		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	18,900	5,370	1,937	835	2,432	5,622	1,997	515	191
Total coal	3,568	124	1,746	6	81	1,556	49	5	—
1100 coal lignite	2,951	109	1,746	—	—	1,094	2	—	—
1200 coal coke	617	16	—	6	81	462	47	5	—
Total petroleum and petroleum products	4,250	1,404	96	265	1,128	499	571	108	179
Subtotal crude petroleum	10	—	—	—	7	—	—	—	3
2100 crude petroleum	10	—	—	—	7	—	—	—	3
Subtotal petroleum products	4,241	1,404	96	265	1,121	499	571	108	176
2211 gasoline	29	—	—	—	—	—	29	—	—
2330 distillate fuel oil	703	247	—	13	274	6	18	70	75
2340 residual fuel oil	662	220	—	10	378	—	15	14	25
2350 lube oil & greases	244	144	—	—	11	22	66	—	1
2429 naphtha & solvents	64	28	—	—	23	—	5	3	4
2430 asphalt, tar & pitch	966	539	55	—	151	35	142	7	36
2540 petroleum coke	1,558	225	41	242	270	436	296	14	35
2990 petro. products nec	14	—	—	—	14	—	—	—	—
Total chemicals and related products	1,928	1,023	93	7	144	473	122	54	12
Subtotal fertilizers	90	5	—	—	—	86	—	—	—
3110 nitrogenous fert.	83	2	—	—	—	81	—	—	—
3120 phosphatic fert.	6	2	—	—	—	4	—	—	—
3190 fert. & mixes nec	2	2	—	—	—	—	—	—	—
Subtotal other chemicals and related products	1,837	1,018	93	7	144	387	122	54	12
3212 benzene & toluene	129	10	—	7	51	—	42	14	4
3219 other hydrocarbons	159	43	—	—	46	31	8	26	6
3220 alcohols	668	416	—	—	4	172	59	14	3
3230 carboxylic acids	2	2	—	—	—	—	—	—	—
3240 nitrogen func. comp.	1	—	—	—	—	1	—	—	—
3260 organic comp. nec	37	20	—	—	—	16	—	—	—
3272 sulphuric acid	4	—	—	—	—	4	—	—	—
3274 sodium hydroxide	553	425	—	—	—	127	—	—	—
3275 inorg. elem., oxides, & halogen salts	68	67	—	—	—	2	—	—	—
3276 metallic salts	185	34	93	—	43	7	7	—	—
3279 inorganic chem. nec	25	—	—	—	—	25	—	—	—
3297 chemical additives	2	—	—	—	—	2	—	—	—
3299 chem. products nec	4	—	—	—	—	—	4	—	—

CHICAGO SANITARY AND SHIP CANAL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)
 Freight Traffic, 1997 - 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	4,699	1,385	2	552	542	1,297	574	348	—
Subtotal forest products, wood and chips	108	107	—	—	—	1	—	—	—
4161 wood chips	105	104	—	—	—	1	—	—	—
4190 forest products nec	3	3	—	—	—	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	2,235	583	—	552	300	386	66	348	—
4322 limestone	30	—	—	—	—	30	—	—	—
4331 sand & gravel	2,137	553	—	552	300	320	65	348	—
4335 waterway improv. mat	68	31	—	—	—	36	2	—	—
Subtotal iron ore and scrap	663	8	—	—	236	61	358	—	—
4410 iron ore	105	—	—	—	—	41	64	—	—
4420 iron & steel scrap	558	8	—	—	236	20	294	—	—
Subtotal non-ferrous ores and scrap	41	2	—	—	—	39	—	—	—
4650 aluminum ore	9	—	—	—	—	9	—	—	—
4670 manganese ore	27	2	—	—	—	25	—	—	—
4690 non-ferrous ores nec	4	—	—	—	—	4	—	—	—
Subtotal sulphur, clay and salt	18	3	—	—	—	12	3	—	—
4782 clay & refrac. mat.	18	3	—	—	—	12	3	—	—
Subtotal slag	292	—	—	—	2	144	147	—	—
4860 slag	292	—	—	—	2	144	147	—	—
Subtotal other non-metal. min.	1,342	682	2	—	4	654	—	—	—
4900 non-metal. min. nec	1,342	682	2	—	4	654	—	—	—
Total primary manufactured goods	3,558	1,370	—	—	1	1,711	475	—	—
Subtotal lime, cement and glass	957	935	—	—	1	19	2	—	—
5210 lime	1	1	—	—	—	—	—	—	—
5220 cement & concrete	954	932	—	—	1	19	2	—	—
5290 misc. mineral prod.	2	2	—	—	—	—	—	—	—
Subtotal primary iron and steel products	2,395	348	—	—	—	1,587	460	—	—
5312 pig iron	313	11	—	—	—	299	3	—	—
5315 ferro alloys	191	1	—	—	—	186	3	—	—
5320 i&s primary forms	468	18	—	—	—	449	2	—	—
5330 i&s plates & sheets	1,003	162	—	—	—	439	402	—	—
5360 i&s bars & shapes	147	87	—	—	—	27	33	—	—
5370 i&s pipe & tube	5	4	—	—	—	1	—	—	—
5390 primary i&s nec	268	65	—	—	—	186	17	—	—
Subtotal primary non-ferrous metal products	206	87	—	—	—	106	13	—	—
5422 aluminum	3	—	—	—	—	3	—	—	—
5429 smelted prod. nec	24	6	—	—	—	18	—	—	—
5480 fab. metal products	179	80	—	—	—	85	13	—	—
Total food and farm products	858	40	—	5	527	80	206	—	—
Subtotal grain	412	1	—	—	340	—	71	—	—
6241 wheat	88	1	—	—	42	—	44	—	—
6344 corn	324	—	—	—	297	—	26	—	—
Subtotal oilseeds	341	1	—	5	185	28	123	—	—
6522 soybeans	341	1	—	5	185	28	123	—	—
Subtotal vegetable products	1	—	—	—	1	—	—	—	—
6653 vegetable oils	1	—	—	—	1	—	—	—	—

CHICAGO SANITARY AND SHIP CANAL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Subtotal processed grain and animal feed	14	—	—	—	1	—	13	—	—
6782 animal feed, prep.	14	—	—	—	1	—	13	—	—
Subtotal other agricultural products	89	37	—	—	—	52	—	—	—
6861 sugar	70	37	—	—	—	34	—	—	—
6865 molasses	19	—	—	—	—	19	—	—	—
Total all manufactured equipment, machinery and products	39	25	1	—	8	6	1	—	—
7110 machinery (not elec)	7	—	1	—	—	6	1	—	—
7400 manufac. wood prod.	25	25	—	—	—	—	—	—	—
7600 rubber & plastic pr.	8	—	—	—	8	—	—	—	—
Ton-miles (x1000)	219,133	66,705	11,836	16,364	25,642	65,078	21,729	10,409	1,370
Tons All Traffic (x1000)					18,900				
Ton-miles All Traffic (x1000)					219,133				

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
1988	40,973	1991	43,131	1994	50,882	1997	42,994
1989	39,672	1992	42,668	1995	47,435		
1990	43,318	1993	45,636	1996	46,236		

Freight Traffic, 1997 (thousand short tons)

Commodity	Grand Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	42,994	10,269	2,184	1,150	20,132	4,623	1,486	2,136	1,014
Total coal	4,941	1,467	1,746	72	111	1,491	49	5	—
1100 coal lignite	4,292	1,429	1,746	—	21	1,094	2	—	—
1200 coal coke	650	39	—	72	90	397	47	5	—
Total petroleum and petroleum products	6,177	2,033	146	664	1,906	147	298	472	512
Subtotal crude petroleum	10	—	—	—	7	—	—	—	3
2100 crude petroleum	10	—	—	—	7	—	—	—	3
Subtotal petroleum products	6,167	2,033	146	664	1,899	147	298	472	509
2211 gasoline	386	347	12	—	6	—	—	—	21
2330 distillate fuel oil	849	351	8	23	275	—	7	90	95
2340 residual fuel oil	997	222	—	50	487	—	2	120	116
2350 lube oil & greases	326	220	—	—	17	22	59	6	1
2429 naphtha & solvents	162	120	—	6	17	—	1	3	15
2430 asphalt, tar & pitch	1,281	587	91	35	272	—	76	174	45
2540 petroleum coke	2,140	172	35	550	811	125	152	78	216
2990 petro. products nec	27	13	—	—	14	—	—	—	—

ILLINOIS WATERWAY, IL (CONSOLIDATED REPORT FOR ENTIRE WATERWAY)
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total chemicals and related products	4,715	3,221	111	10	575	294	107	314	83
Subtotal	1,052	809	—	8	51	77	—	64	42
fertilizers									
3110 nitrogenous fert.	558	477	—	8	—	73	—	—	—
3120 phosphatic fert.	41	28	—	—	5	4	—	1	3
3130 potassic fert.	189	41	—	—	47	—	—	63	38
3190 fert. & mixes nec	263	263	—	—	—	—	—	—	—
Subtotal other chemicals and related products	3,663	2,412	111	1	524	216	107	250	42
3211 acyclic hydrocarbons	4	4	—	—	—	—	—	—	—
3212 benzene & toluene	136	16	1	1	51	—	42	20	4
3219 other hydrocarbons	981	864	2	—	24	31	7	26	27
3220 alcohols	1,177	488	15	—	417	12	47	193	4
3230 carboxylic acids	14	14	—	—	—	—	—	—	—
3240 nitrogen func. comp.	1	—	—	—	—	1	—	—	—
3260 organic comp. nec	50	38	—	—	—	12	—	—	—
3272 sulphuric acid	4	—	—	—	—	4	—	—	—
3273 ammonia	330	330	—	—	—	—	—	—	—
3274 sodium hydroxide	553	425	—	—	—	127	—	—	—
3275 inorg. elem., oxides, & halogen salts	104	102	—	—	—	2	—	—	—
3276 metallic salts	186	40	93	—	25	3	7	11	7
3279 inorganic chem. nec	103	72	—	—	6	25	—	—	—
3286 plastics	3	3	—	—	—	—	—	—	—
3297 chemical additives	12	12	—	—	—	—	—	—	—
3299 chem. products nec	7	3	—	—	—	—	4	—	—
Total crude materials, inedible except fuels	5,638	1,736	107	374	269	969	434	1,340	409
Subtotal forest products, wood and chips	226	222	—	—	2	1	—	1	—
4161 wood chips	218	214	—	—	2	1	—	1	—
4190 forest products nec	8	8	—	—	—	—	—	—	—
Subtotal soil, sand, gravel, rock and stone	2,552	321	—	372	64	68	66	1,338	323
4322 limestone	123	102	—	—	3	18	—	—	—
4323 gypsum	28	—	—	—	28	—	—	—	—
4327 phosphate rock	22	22	—	—	—	—	—	—	—
4331 sand & gravel	2,309	165	—	372	32	15	65	1,338	323
4335 waterway improv. mat	68	31	—	—	—	36	2	—	—
4338 soil & fill dirt	2	2	—	—	—	—	—	—	—
Subtotal iron ore and scrap	821	165	97	—	189	57	226	—	86
4410 iron ore	108	—	—	—	3	41	64	—	—
4420 iron & steel scrap	713	165	97	—	186	16	163	—	86
Subtotal non-ferrous ores and scrap	52	13	—	—	—	39	—	—	—
4650 aluminum ore	9	—	—	—	—	9	—	—	—
4670 manganese ore	27	2	—	—	—	25	—	—	—
4690 non-ferrous ores nec	16	11	—	—	—	4	—	—	—
Subtotal sulphur, clay and salt	25	10	—	—	—	12	3	—	—
4782 clay & refrac. mat.	25	10	—	—	—	12	3	—	—
Subtotal slag	305	9	8	2	10	137	138	—	—
4860 slag	305	9	8	2	10	137	138	—	—
Subtotal other non-metal. min.	1,655	995	2	—	4	654	—	—	—
4900 non-metal. min. nec	1,655	995	2	—	4	654	—	—	—

ILLINOIS WATERWAY, IL (CONSOLIDATED REPORT FOR ENTIRE WATERWAY)
 Freight Traffic, 1997 - continued
 (thousand short tons)

Commodity	Grand Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total primary manufactured goods	3,833	1,632	72	—	47	1,679	404	—	—
Subtotal lime, cement and glass	960	938	—	—	1	19	2	—	—
5210 lime	4	4	—	—	—	—	—	—	—
5220 cement & concrete	954	932	—	—	1	19	2	—	—
5290 misc. mineral prod.	2	2	—	—	—	—	—	—	—
Subtotal primary iron and steel products	2,660	600	70	—	46	1,554	390	—	—
5312 pig iron	390	118	—	—	—	270	3	—	—
5315 ferro alloys	199	6	—	—	3	186	3	—	—
5320 i&s primary forms	478	28	—	—	—	449	2	—	—
5330 i&s plates & sheets	1,084	233	37	—	9	439	365	—	—
5360 i&s bars & shapes	221	128	33	—	34	27	—	—	—
5370 i&s pipe & tube	5	4	—	—	—	1	—	—	—
5390 primary i&s nec	283	83	—	—	—	183	17	—	—
Subtotal primary non-ferrous metal products	213	93	1	—	—	106	12	—	—
5422 aluminum	3	—	—	—	—	3	—	—	—
5429 smelted prod. nec	26	7	—	—	—	18	—	—	—
5480 fab. metal products	184	86	1	—	—	85	12	—	—
Total food and farm products	17,642	152	2	31	17,211	38	193	6	10
Subtotal grain	11,473	33	2	—	11,358	—	69	5	7
6241 wheat	402	25	2	—	332	—	43	—	—
6344 corn	11,052	6	—	—	11,008	—	26	5	7
6442 rice	2	2	—	—	—	—	—	—	—
6447 sorghum grains	17	—	—	—	17	—	—	—	—
Subtotal oilseeds	4,621	7	—	31	4,456	1	123	—	3
6522 soybeans	4,528	4	—	31	4,365	1	123	—	3
6590 oilseeds nec	93	3	—	—	90	—	—	—	—
Subtotal vegetable products	8	—	—	—	8	—	—	—	—
6653 vegetable oils	8	—	—	—	8	—	—	—	—
Subtotal processed grain and animal feed	1,280	34	—	—	1,243	—	2	1	—
6747 grain mill products	108	1	—	—	107	—	—	—	—
6782 animal feed, prep.	1,172	33	—	—	1,136	—	2	1	—
Subtotal other agricultural products	260	78	—	—	146	37	—	—	—
6839 animals & prod. nec	1	—	—	—	1	—	—	—	—
6861 sugar	70	37	—	—	—	34	—	—	—
6865 molasses	44	41	—	—	—	3	—	—	—
6885 alcoholic beverages	145	—	—	—	145	—	—	—	—
Total all manufactured equipment, machinery and products	49	29	1	—	13	6	1	—	—
7110 machinery (not elec)	8	0	1	—	1	6	1	—	—
7400 manufac. wood prod.	25	25	—	—	—	—	—	—	—
7500 textile products	4	4	—	—	—	—	—	—	—
7600 rubber & plastic pr.	12	—	—	—	12	—	—	—	—
Ton-miles (x1000)	8,555,048	2,422,310	96,470	51,064	3,804,537	1,493,091	482,838	115,808	88,930
Tons All Traffic (x1000)					42,994				
Ton-miles All Traffic (x1000)					8,555,048				

Section 2

Trips and Drafts of Vessels

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
WAUKEGAN HARBOR, IL												
Grand Total	Inbound						Outbound					
	132	30	—	49	53	—	134	30	—	51	53	—
FOREIGN												
Total	—	—	—	—	—	—	10	—	—	5	5	—
19	—	—	—	—	—	—	3	—	—	—	3	—
17	—	—	—	—	—	—	2	—	—	—	2	—
≤ 12	—	—	—	—	—	—	5	—	—	5	—	—
DOMESTIC												
Total	132	30	—	49	53	—	124	30	—	46	48	—
22	1	1	—	—	—	—	—	—	—	—	—	—
20	1	1	—	—	—	—	1	1	—	—	—	—
19	14	12	—	2	—	—	5	3	—	2	—	—
18	24	15	—	1	8	—	7	6	—	1	—	—
17	5	1	—	—	4	—	—	—	—	—	—	—
16	13	—	—	11	2	—	32	15	—	8	9	—
15	1	—	—	—	1	—	3	2	—	—	1	—
14	—	—	—	—	—	—	3	3	—	—	—	—
≤ 12	73	—	—	35	38	—	73	—	—	35	38	—
Total trips:											266	
CHICAGO RIVER (MAIN AND NORTH BRANCH), IL												
Grand Total	Upbound						Downbound					
	947	227	—	310	386	24	2,855	2,180	—	305	362	8
DOMESTIC												
Total	947	227	—	310	386	24	2,855	2,180	—	305	362	8
≤ 12	947	227	—	310	386	24	2,855	2,180	—	305	362	8
Total trips:											3,802	
CHICAGO RIVER, SOUTH BRANCH, IL												
Grand Total	Upbound						Downbound					
	3,011	1,955	—	299	749	8	1,030	2	—	297	707	24
DOMESTIC												
Total	3,011	1,955	—	299	749	8	1,030	2	—	297	707	24
≤ 12	3,011	1,955	—	299	749	8	1,030	2	—	297	707	24
Total trips:											4,041	
LAKE CALUMET, IL												
Grand Total	Upbound						Downbound					
	1,108	34	32	112	768	162	1,078	32	34	114	732	166
FOREIGN												
Total	33	10	5	9	9	—	33	9	7	8	9	—
27	2	2	—	—	—	—	—	—	—	—	—	—
26	2	—	—	—	—	—	—	—	—	—	—	—
25	3	3	—	—	—	—	—	—	—	—	—	—
24	3	1	—	—	2	—	1	—	—	—	1	—
23	3	1	—	2	—	—	2	—	—	—	—	—
22	1	—	—	—	1	—	3	—	1	—	—	—
21	1	—	—	—	—	—	5	—	5	—	—	—
20	2	—	—	—	1	—	2	—	2	—	—	—
19	5	—	—	—	4	—	2	—	—	—	2	—
18	—	—	—	—	—	—	1	—	1	—	—	—
16	—	—	—	—	—	—	7	—	1	—	6	—
15	1	—	—	—	1	—	—	—	—	—	—	—
≤ 12	10	1	—	9	—	—	10	—	2	8	—	—

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

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

LAKE CALUMET, IL - continued

	Upbound						Downbound					
DOMESTIC												
Total	1,075	24	27	103	759	162	1,045	23	27	106	723	166
22	6	6	—	—	—	—	—	—	—	—	—	—
21	21	8	—	—	13	—	—	—	—	—	—	—
20	4	3	—	—	1	—	2	2	—	—	—	—
19	6	4	—	—	2	—	9	6	1	—	2	—
18	1	—	—	—	1	—	5	5	—	—	—	—
17	4	1	—	—	3	—	1	1	—	—	—	—
16	1	1	—	—	—	—	4	4	—	—	—	—
15	1	1	—	—	—	—	1	1	—	—	—	—
14	2	—	—	—	2	—	6	4	—	2	—	—
13	22	—	16	6	—	—	31	—	4	10	17	—
≤ 12	1,007	—	11	95	739	162	986	—	22	94	704	166
									Total trips:			2,186

CALUMET HARBOR AND RIVER, IL AND IN

	Upbound						Downbound					
Grand Total	8,716	591	69	2,715	4,787	554	10,094	2,559	67	2,242	4,673	553
FOREIGN												
Total	249	188	12	24	25	—	255	180	10	32	33	—
27	15	15	—	—	—	—	53	53	—	—	—	—
26	6	6	—	—	—	—	19	19	—	—	—	—
25	1	1	—	—	—	—	14	14	—	—	—	—
24	8	5	1	1	1	—	37	29	2	1	5	—
23	21	21	—	—	—	—	31	25	2	—	4	—
22	50	47	2	—	1	—	6	5	—	—	1	—
21	41	40	1	—	—	—	29	27	1	—	1	—
20	30	28	2	—	—	—	4	1	1	—	2	—
19	5	—	—	—	5	—	7	—	1	—	6	—
18	19	15	3	—	1	—	6	3	—	—	3	—
17	1	—	—	—	1	—	—	—	—	—	—	—
16	11	1	1	1	8	—	7	1	1	2	3	—
15	9	7	—	—	2	—	3	—	—	—	3	—
14	1	—	—	—	1	—	3	—	—	—	3	—
13	—	—	—	—	—	—	1	1	—	—	—	—
≤ 12	31	2	2	22	5	—	35	2	2	29	2	—
DOMESTIC												
Total	8,467	403	57	2,691	4,762	554	9,839	2,379	57	2,210	4,640	553
29	—	—	—	—	—	—	1	1	—	—	—	—
28	—	—	—	—	—	—	7	7	—	—	—	—
27	1	1	—	—	—	—	50	50	—	—	—	—
26	9	9	—	—	—	—	24	19	—	—	5	—
25	7	7	—	—	—	—	13	11	—	—	2	—
24	12	11	—	—	1	—	2	1	—	—	1	—
23	28	28	—	—	—	—	—	—	—	—	—	—
22	22	21	—	1	—	—	10	9	—	1	—	—
21	16	15	—	—	1	—	33	19	—	—	14	—
20	14	14	—	—	—	—	5	4	—	—	1	—
19	17	12	1	—	4	—	8	6	—	—	2	—
18	60	57	—	3	—	—	53	51	—	1	1	—
17	5	1	—	—	4	—	16	13	—	—	3	—
16	16	4	—	9	1	2	24	15	9	—	—	—
15	3	1	—	—	1	—	5	4	—	—	1	—
14	13	5	—	7	—	1	4	—	—	—	—	—
13	77	—	12	48	17	—	74	—	39	35	—	—
≤ 12	8,167	217	44	2,623	4,733	550	9,510	2,169	18	2,160	4,610	553
									Total trips:			18,810

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
PORT OF CHICAGO, IL												
				Inbound						Outbound		
Grand Total	31,040	15,992	67	4,651	7,833	2,497	30,799	16,003	69	4,689	7,536	2,502
FOREIGN												
Total	256	181	10	32	33	—	252	191	12	24	25	—
27	53	53	—	—	—	—	15	15	—	—	—	—
26	19	19	—	—	—	—	6	6	—	—	—	—
25	14	14	—	—	—	—	1	1	—	—	—	—
24	37	29	2	1	5	—	8	5	1	1	1	—
23	31	25	2	—	4	—	21	21	—	—	—	—
22	6	5	—	—	1	—	50	47	2	—	1	—
21	29	27	1	—	1	—	42	41	1	—	—	—
20	4	1	1	—	2	—	30	28	2	—	—	—
19	7	—	1	—	6	—	5	—	—	—	5	—
18	6	3	—	—	3	—	19	15	3	—	1	—
17	1	1	—	—	—	—	3	2	—	—	1	—
16	7	1	1	2	3	—	11	1	1	1	8	—
15	3	—	—	—	3	—	9	7	—	—	2	—
14	3	—	—	—	3	—	1	—	—	—	1	—
13	1	1	—	—	—	—	—	—	—	—	—	—
≤ 12	35	2	2	29	2	—	31	2	2	22	5	—
DOMESTIC												
Total	30,784	15,811	57	4,619	7,800	2,497	30,547	15,812	57	4,665	7,511	2,502
29	1	1	—	—	—	—	—	—	—	—	—	—
28	7	7	—	—	—	—	—	—	—	—	—	—
27	50	50	—	—	—	—	1	1	—	—	—	—
26	24	19	—	—	5	—	9	9	—	—	—	—
25	13	11	—	—	2	—	7	7	—	—	—	—
24	2	1	—	—	1	—	12	11	—	—	1	—
23	—	—	—	—	—	—	28	28	—	—	—	—
22	10	9	—	1	—	—	22	21	—	1	—	—
21	33	19	—	—	14	—	16	15	—	—	1	—
20	5	4	—	—	1	—	14	14	—	—	—	—
19	8	6	—	—	2	—	17	12	1	—	4	—
18	41	39	—	1	1	—	72	69	—	3	—	—
17	16	13	—	—	3	—	5	1	—	—	4	—
16	24	15	—	9	—	—	16	4	—	9	1	2
15	5	4	—	—	1	—	3	1	—	—	1	—
14	4	—	—	4	—	—	13	5	—	7	—	1
13	80	—	39	41	—	—	76	—	12	47	17	—
≤ 12	30,461	15,613	18	4,563	7,770	2,497	30,236	15,614	44	4,598	7,482	2,498
										Total trips:		61,839
INDIANA HARBOR, IN												
				Inbound						Outbound		
Grand Total	2,362	408	381	800	290	483	2,492	397	373	878	293	551
FOREIGN												
Total	56	54	—	1	1	—	47	45	—	1	1	—
28	2	2	—	—	—	—	—	—	—	—	—	—
27	51	50	—	—	1	—	2	2	—	—	—	—
26	1	1	—	—	—	—	—	—	—	—	—	—
24	1	—	—	1	—	—	1	—	—	1	—	—
23	—	—	—	—	—	—	17	17	—	—	—	—
22	—	—	—	—	—	—	27	26	—	—	1	—
20	1	1	—	—	—	—	—	—	—	—	—	—
DOMESTIC												
Total	2,306	354	381	799	289	483	2,445	352	373	877	292	551
31	7	7	—	—	—	—	—	—	—	—	—	—
30	45	45	—	—	—	—	1	1	—	—	—	—
29	62	62	—	—	—	—	—	—	—	—	—	—
28	140	139	—	—	1	—	1	1	—	—	—	—
27	109	85	—	—	24	—	2	—	—	—	2	—
26	19	11	—	—	8	—	5	4	—	—	1	—
25	3	—	—	—	3	—	2	2	—	—	—	—
24	6	1	—	—	5	—	40	2	—	—	—	38

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

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

INDIANA HARBOR, IN - continued

	Inbound						Outbound					
DOMESTIC												
23	3	—	—	—	3	—	43	43	—	—	—	—
22	29	—	—	29	—	—	66	38	—	28	—	—
21	5	3	—	1	1	—	191	189	—	—	—	2
20	—	—	—	—	—	—	24	7	—	—	—	17
19	—	—	—	—	—	—	11	10	—	—	—	1
18	35	1	—	34	—	—	93	44	—	36	—	13
17	16	—	—	—	—	16	29	7	—	—	—	22
16	53	—	—	19	—	34	61	—	—	16	12	33
15	30	—	—	30	—	—	77	4	—	45	—	28
14	27	—	—	27	—	—	51	—	—	27	—	24
13	211	—	130	81	—	—	330	—	233	94	—	3
≤ 12	1,506	—	251	578	244	433	1,418	—	140	631	277	370
											Total trips:	4,854

BURNS WATERWAY HARBOR, IN

	Inbound						Outbound					
Grand Total	2,084	238	110	685	987	64	2,133	226	110	727	1,004	66
FOREIGN												
Total	105	101	—	2	2	—	97	93	—	2	2	—
28	1	1	—	—	—	—	5	5	—	—	—	—
27	56	56	—	—	—	—	5	5	—	—	—	—
26	5	5	—	—	—	—	1	1	—	—	—	—
25	3	3	—	—	—	—	5	5	—	—	—	—
24	25	25	—	—	—	—	18	18	—	—	—	—
23	—	—	—	—	—	—	26	26	—	—	—	—
22	2	2	—	—	—	—	10	10	—	—	—	—
21	4	4	—	—	—	—	3	3	—	—	—	—
20	2	2	—	—	—	—	3	3	—	—	—	—
19	—	—	—	—	—	—	9	9	—	—	—	—
18	1	1	—	—	—	—	1	1	—	—	—	—
17	1	—	—	—	1	—	—	—	—	—	—	—
16	1	—	—	—	—	—	3	3	—	—	—	—
15	—	—	—	—	—	—	2	3	—	—	—	—
13	1	—	—	1	—	—	2	—	—	1	1	—
≤ 12	3	2	—	1	—	—	6	4	—	1	1	—
DOMESTIC												
Total	1,979	137	110	683	985	64	2,036	133	110	725	1,002	66
29	27	27	—	—	—	—	—	—	—	—	—	—
28	52	52	—	—	—	—	2	2	—	—	—	—
27	29	29	—	—	—	—	1	1	—	—	—	—
26	8	8	—	—	—	—	2	2	—	—	—	—
25	1	1	—	—	—	—	3	3	—	—	—	—
24	1	1	—	—	—	—	47	47	—	—	—	—
23	—	—	—	—	—	—	2	2	—	—	—	—
22	9	9	—	—	—	—	1	1	—	—	—	—
21	1	1	—	—	—	—	36	35	—	—	1	—
20	—	—	—	—	—	—	21	21	—	—	—	—
19	—	—	—	—	—	—	11	11	—	—	—	—
18	—	—	—	—	—	—	8	8	—	—	—	—
17	2	2	—	—	—	—	—	—	—	—	—	—
16	2	2	—	—	—	—	—	—	—	—	—	—
15	5	5	—	—	—	—	—	—	—	—	—	—
14	1	—	—	—	—	—	—	—	—	—	—	—
13	91	—	87	4	—	—	19	3	19	3	—	—
≤ 12	1,750	—	23	678	985	64	1,879	—	91	721	1,001	66
											Total trips:	4,217

CHICAGO HARBOR, IL
(21 feet and less)

	Upbound						Downbound					
Grand Total	15,527	15,389	—	134	2	2	15,509	15,391	—	89	29	—
											Total trips:	31,036

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

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

MICHIGAN CITY HARBOR, IN
No Vessel Trips Reported

BUFFINGTON HARBOR, IN
(27 feet and less)

	Inbound						Outbound					
Grand Total	85	60	1	15	9	—	78	63	1	7	7	—
	Total trips:										7	163

GARY HARBOR, IN
(29 feet and less)

	Inbound						Outbound					
Grand Total	1,089	153	16	439	481	—	1,089	152	26	433	478	—
	Total trips:										478	2,178

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
TWO HARBORS (AGATE BAY), MN												
	Inbound						Outbound					
Grand Total	300	228	—	37	35	—	309	233	—	38	38	—
DOMESTIC												
Total	300	228	—	37	35	—	309	233	—	38	38	—
29	—	—	—	—	—	—	72	67	—	—	5	—
28	—	—	—	—	—	—	87	58	—	—	29	—
27	11	—	—	11	—	—	101	88	—	12	1	—
26	80	78	—	—	2	—	18	17	—	—	1	—
25	5	5	—	—	—	—	2	1	—	—	1	—
24	61	37	—	24	—	—	25	—	—	25	—	—
23	36	3	—	1	32	—	—	—	—	—	—	—
22	25	24	—	1	—	—	2	1	—	1	—	—
21	54	54	—	—	—	—	2	1	—	—	1	—
20	10	10	—	—	—	—	—	—	—	—	—	—
19	5	5	—	—	—	—	—	—	—	—	—	—
18	10	10	—	—	—	—	—	—	—	—	—	—
17	1	1	—	—	—	—	—	—	—	—	—	—
15	1	1	—	—	—	—	—	—	—	—	—	—
≤ 12	1	—	—	—	1	—	—	—	—	—	—	—
										Total trips:	609	

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
DULUTH-SUPERIOR HARBOR, MN AND WI												
	Inbound						Outbound					
Grand Total	1,153	1,087	—	27	36	3	1,250	1,179	—	29	39	3
FOREIGN												
Total	422	410	—	—	9	3	446	434	—	—	9	3
29	—	—	—	—	—	—	39	33	—	—	—	—
28	—	—	—	—	—	—	33	33	—	—	—	—
27	1	1	—	—	—	—	193	191	—	—	2	—
26	14	14	—	—	—	—	49	48	—	—	1	—
25	28	27	—	—	1	—	56	56	—	—	—	—
24	66	65	—	—	1	—	16	16	—	—	—	—
23	99	97	—	—	2	—	8	8	—	—	—	—
22	53	50	—	—	2	1	9	9	—	—	—	—
21	34	32	—	—	1	1	13	13	—	—	—	—
20	82	82	—	—	—	—	12	12	—	—	—	—
19	18	18	—	—	—	—	2	2	—	—	—	—
18	17	17	—	—	—	—	2	2	—	—	—	—
17	3	3	—	—	—	—	1	1	—	—	—	—
16	2	2	—	—	—	—	2	2	—	—	—	—
15	—	—	—	—	—	—	—	—	—	—	2	—
14	3	1	—	—	2	—	5	—	—	—	4	1
13	1	—	—	—	—	1	1	1	—	—	—	—
≤ 12	1	1	—	—	—	—	3	1	—	—	—	2
DOMESTIC												
Total	731	677	—	27	27	—	804	745	—	29	30	—
29	2	2	—	—	—	—	106	106	—	—	—	—
28	9	9	—	—	—	—	293	293	—	—	—	—
27	66	64	—	1	1	—	116	113	—	2	1	—
26	44	39	—	—	5	—	59	57	—	—	2	—
25	13	12	—	—	1	—	28	28	—	—	—	—
24	19	14	—	5	—	—	23	20	—	2	1	—
23	129	128	—	—	1	—	22	17	—	—	5	—
22	97	88	—	9	—	—	34	16	—	12	6	—
21	66	66	—	—	—	—	31	31	—	—	—	—
20	26	26	—	—	—	—	14	13	—	—	1	—
19	82	82	—	—	—	—	14	14	—	—	—	—
18	115	115	—	—	—	—	24	23	—	—	1	—
17	30	30	—	—	—	—	9	9	—	—	—	—
16	4	—	—	3	1	—	5	—	—	3	2	—
15	2	2	—	—	—	—	4	4	—	—	—	—
14	9	—	—	9	—	—	10	—	—	10	—	—
≤ 12	18	—	—	—	18	—	12	1	—	—	11	—
										Total trips:	2,403	

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

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

TACONITE HARBOR, MN

	Inbound						Outbound					
Grand Total	169	137	—	16	16	—	186	148	—	19	19	—
DOMESTIC												
Total	169	137	—	16	16	—	186	148	—	19	19	—
30	—	—	—	—	—	—	1	1	—	—	—	—
29	—	—	—	—	—	—	45	45	—	—	—	—
28	2	2	—	—	—	—	54	54	—	—	—	—
27	3	3	—	—	—	—	40	27	—	—	13	—
26	2	2	—	—	—	—	13	8	—	—	5	—
25	1	1	—	—	—	—	1	1	—	—	—	—
24	4	3	—	—	—	1	—	—	—	—	—	—
23	59	56	—	—	—	3	—	—	—	—	—	—
22	34	12	—	16	—	6	20	1	—	19	—	—
21	5	5	—	—	—	—	4	4	—	—	—	—
20	11	10	—	—	—	1	—	—	—	—	—	—
19	13	13	—	—	—	—	1	1	—	—	—	—
18	13	13	—	—	—	—	5	5	—	—	—	—
17	7	7	—	—	—	—	1	1	—	—	—	—
15	10	10	—	—	—	—	—	—	—	—	—	—
9	5	—	—	—	5	—	1	—	—	—	1	—
										Total trips:		355

PRESQUE ISLE HARBOR, MI

	Inbound						Outbound					
Grand Total	342	336	—	3	3	—	344	338	—	3	3	—
FOREIGN												
Total	53	53	—	—	—	—	52	52	—	—	—	—
27	—	—	—	—	—	—	1	1	—	—	—	—
26	—	—	—	—	—	—	4	4	—	—	—	—
25	2	2	—	—	—	—	32	32	—	—	—	—
24	16	16	—	—	—	—	9	9	—	—	—	—
23	11	11	—	—	—	—	5	5	—	—	—	—
22	23	23	—	—	—	—	1	1	—	—	—	—
13	1	1	—	—	—	—	—	—	—	—	—	—
DOMESTIC												
Total	289	283	—	3	3	—	292	286	—	3	3	—
29	—	—	—	—	—	—	42	42	—	—	—	—
28	6	6	—	—	—	—	133	133	—	—	—	—
27	17	17	—	—	—	—	59	56	—	—	3	—
26	—	—	—	—	—	—	17	17	—	—	—	—
25	10	10	—	—	—	—	2	2	—	—	—	—
24	12	12	—	—	—	—	1	1	—	—	—	—
23	37	37	—	—	—	—	20	20	—	—	—	—
22	33	30	—	3	—	—	4	1	—	3	—	—
21	8	8	—	—	—	—	1	1	—	—	—	—
20	8	8	—	—	—	—	1	1	—	—	—	—
19	20	20	—	—	—	—	2	2	—	—	—	—
18	119	119	—	—	—	—	10	10	—	—	—	—
17	12	12	—	—	—	—	—	—	—	—	—	—
16	2	2	—	—	—	—	—	—	—	—	—	—
15	2	2	—	—	—	—	—	—	—	—	—	—
≤ 12	3	—	—	—	3	—	—	—	—	—	—	—
										Total trips:		686

MARQUETTE HARBOR, MI

	Inbound						Outbound					
Grand Total	27	27	—	—	—	—	25	25	—	—	—	—
DOMESTIC												
Total	27	27	—	—	—	—	25	25	—	—	—	—
27	1	1	—	—	—	—	—	—	—	—	—	—

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
MARQUETTE HARBOR, MI - continued												
Inbound						Outbound						
DOMESTIC												
24	7	7	—	—	—	—	—	—	—	—	—	—
23	13	13	—	—	—	—	—	—	—	—	—	—
22	4	4	—	—	—	—	—	—	—	—	—	—
21	1	1	—	—	—	—	2	2	—	—	—	—
20	—	—	—	—	—	—	3	3	—	—	—	—
19	—	—	—	—	—	—	11	11	—	—	—	—
18	—	—	—	—	—	—	8	8	—	—	—	—
17	—	—	—	—	—	—	1	1	—	—	—	—
15	1	1	—	—	—	—	—	—	—	—	—	—
Total trips:											52	
DRUMMOND ISLAND, MI												
Inbound						Outbound						
Grand Total	12,117	12,088	—	15	14	—	12,123	12,092	—	16	15	—
FOREIGN												
Total	20	19	—	1	—	—	18	17	—	1	—	—
27	—	—	—	—	—	—	1	1	—	—	—	—
26	—	—	—	—	—	—	1	1	—	—	—	—
25	—	—	—	—	—	—	6	6	—	—	—	—
24	2	2	—	—	—	—	1	1	—	—	—	—
23	2	2	—	—	—	—	5	5	—	—	—	—
22	3	3	—	—	—	—	—	—	—	—	—	—
21	5	5	—	—	—	—	2	2	—	—	—	—
20	3	3	—	—	—	—	1	1	—	—	—	—
19	4	4	—	—	—	—	—	—	—	—	—	—
≤ 12	1	—	—	1	—	—	1	—	—	1	—	—
DOMESTIC												
Total	12,097	12,069	—	14	14	—	12,105	12,075	—	15	15	—
27	5	5	—	—	—	—	9	9	—	—	—	—
26	—	—	—	—	—	—	6	2	—	—	4	—
25	—	—	—	—	—	—	17	7	—	—	10	—
24	2	2	—	—	—	—	16	15	—	—	1	—
23	3	3	—	—	—	—	12	12	—	—	—	—
22	5	—	—	5	—	—	15	9	—	6	—	—
21	1	1	—	—	—	—	2	2	—	—	—	—
20	1	1	—	—	—	—	1	1	—	—	—	—
19	6	6	—	—	—	—	1	1	—	—	—	—
18	9	9	—	—	—	—	1	1	—	—	—	—
17	2	2	—	—	—	—	—	—	—	—	—	—
16	23	14	—	—	—	9	—	—	—	—	—	—
15	12	12	—	—	—	—	—	—	—	—	—	—
13	9	—	—	9	—	—	9	—	—	9	—	—
≤ 12	12,019	12,014	—	—	5	—	12,016	12,016	—	—	—	—
Total trips:											24,240	
ST. MARYS RIVER, MI												
Upbound						Downbound						
Grand Total	39,363	39,016	3	151	164	29	38,616	38,293	8	115	157	43
FOREIGN												
Total	907	738	3	59	78	29	768	571	8	52	94	43
30	1	1	—	—	—	—	—	—	—	—	—	—
29	—	—	—	—	—	—	30	30	—	—	—	—
28	1	1	—	—	—	—	31	30	—	—	1	—
27	24	24	—	—	—	—	203	202	—	—	1	—
26	28	12	—	16	—	—	97	68	—	8	18	3
25	81	81	—	—	—	—	102	100	—	—	2	—
24	119	116	—	2	—	1	59	44	—	—	15	—
23	133	133	—	—	—	—	49	37	—	—	9	3
22	119	116	—	—	—	—	27	25	—	—	2	—
21	64	61	—	—	—	2	2	13	—	—	1	—

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
ST. MARYS RIVER, MI - continued												
	Upbound						Downbound					
FOREIGN												
20	110	99	1	—	9	1	12	8	1	—	2	1
19	50	35	—	—	14	1	9	2	1	1	5	—
18	38	33	—	1	4	—	3	2	—	1	—	—
17	7	5	—	—	2	—	14	2	1	—	11	—
16	13	4	—	—	9	—	16	2	5	—	4	27
15	34	7	—	—	20	7	31	—	—	—	3	2
14	3	1	—	—	2	—	7	1	—	1	—	1
13	12	1	—	10	—	1	2	1	—	—	—	—
≤ 12	70	8	2	30	13	17	62	4	—	41	11	6
DOMESTIC												
Total	38,456	38,278	—	92	86	—	37,848	37,722	—	63	63	—
30	—	—	—	—	—	—	8	8	—	—	5	—
29	2	2	—	—	—	—	252	247	—	—	30	—
28	17	17	—	—	—	—	327	297	—	—	18	—
27	89	79	—	10	—	—	337	307	—	12	6	—
26	130	120	—	—	10	—	182	176	—	—	1	—
25	43	32	—	—	11	—	28	27	—	—	—	—
24	111	82	—	28	1	—	40	14	—	26	—	—
23	253	220	—	1	32	—	3	3	—	—	—	—
22	182	153	—	29	—	—	27	4	—	23	—	—
21	120	120	—	—	—	—	6	5	—	—	1	—
20	52	52	—	—	—	—	4	4	—	—	—	—
19	118	118	—	—	—	—	9	9	—	—	—	—
18	262	262	—	—	—	—	6	6	—	—	—	—
17	94	94	—	—	—	—	—	—	—	—	—	—
16	26	15	—	2	9	—	4	—	—	2	2	—
15	297	297	—	—	—	—	—	—	—	—	—	—
14	18	—	—	18	—	—	—	—	—	—	—	—
≤ 12	36,642	36,615	—	4	23	—	36,615	36,615	—	—	—	—
										Total trips:		77,979

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

Grand Total	Upbound						Downbound					
	2,452	2,226	2	95	101	28	2,477	2,218	2	92	123	42
FOREIGN												
Total	695	589	2	32	44	28	633	500	2	29	60	42
30	1	1	—	—	—	—	30	30	—	—	—	—
29	—	—	—	—	—	—	31	30	—	—	1	—
28	—	—	—	—	—	—	195	194	—	—	1	—
27	9	9	—	—	—	—	93	64	—	8	18	3
26	24	8	—	16	—	—	95	93	—	—	2	—
25	29	29	—	—	—	—	46	35	—	—	11	—
24	92	90	—	2	—	—	29	22	—	—	4	3
23	115	115	—	—	—	—	5	5	—	—	—	—
22	109	106	—	—	2	1	9	9	—	—	—	—
21	57	55	—	—	1	1	11	8	—	—	—	—
20	98	91	1	—	5	1	1	1	1	—	1	1
19	42	32	—	—	9	1	1	1	—	—	—	—
18	33	31	—	—	2	—	14	2	1	—	11	—
17	7	5	—	—	2	—	10	2	—	—	8	—
16	6	4	—	—	2	—	28	—	—	—	1	27
15	27	4	—	—	17	6	2	—	—	—	—	2
14	1	1	—	—	—	—	2	—	—	—	—	1
13	2	1	—	—	—	1	2	1	—	—	—	—
≤ 12	43	7	1	14	4	17	31	3	—	21	2	5
DOMESTIC												
Total	1,757	1,637	—	63	57	—	1,844	1,718	—	63	63	—
30	—	—	—	—	—	—	8	8	—	—	5	—
29	2	2	—	—	—	—	252	247	—	—	30	—
28	17	17	—	—	—	—	594	564	—	—	18	—
27	75	65	—	10	—	—	337	307	—	12	6	—
26	123	117	—	—	6	—	182	176	—	—	1	—
25	27	26	—	—	1	—	28	27	—	—	—	—
24	99	71	—	28	—	—	40	14	—	26	—	—

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

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

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

DOMESTIC

23	242	209	—	1	32	—	3	3	—	—	—	—
22	165	147	—	18	—	—	27	4	—	23	—	—
21	117	117	—	—	—	—	6	5	—	—	1	—
20	50	50	—	—	—	—	4	4	—	—	—	—
19	110	110	—	—	—	—	9	9	—	—	—	—
18	251	251	—	—	—	—	5	5	—	—	—	—
17	92	92	—	—	—	—	—	—	—	—	—	—
16	3	1	—	2	—	—	4	—	—	2	2	—
15	18	18	—	—	—	—	—	—	—	—	—	—
≤ 12	366	344	—	4	18	—	345	345	—	—	—	—
											Total trips:	4,929

GRAYS REEF PASSAGE, MI

Grand Total	Upbound						Downbound					
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
Grand Total	1,731	1,207	5	258	120	141	1,120	693	4	232	71	120
FOREIGN												
Total	14	2	2	2	8	—	8	1	—	—	7	—
23	1	1	—	—	—	—	—	—	—	—	—	—
22	2	1	—	—	1	—	—	—	—	—	—	—
21	1	—	—	—	1	—	—	—	—	—	—	—
20	4	—	—	—	4	—	—	—	—	—	—	—
18	2	—	—	—	2	—	—	—	—	—	—	—
16	2	—	2	—	—	—	—	—	—	—	—	—
14	—	—	—	—	—	—	1	1	—	—	—	—
≤ 12	2	—	—	2	—	—	7	—	—	—	7	—

DOMESTIC

Total	1,717	1,205	3	256	112	141	1,112	692	4	232	64	120
26	72	72	—	—	—	—	—	—	—	—	—	—
25	18	17	—	—	1	—	52	42	—	—	10	—
24	82	47	—	22	1	12	62	26	—	21	15	—
23	130	98	—	—	32	—	44	37	—	—	7	—
22	154	133	—	21	—	—	111	82	—	25	4	—
21	161	145	—	—	13	3	45	41	2	—	2	—
20	41	39	—	—	—	2	28	28	—	—	—	—
19	81	72	1	5	2	1	30	25	—	5	—	—
18	149	124	—	20	—	5	40	21	—	17	1	1
17	70	48	—	—	1	21	24	11	—	—	—	13
16	143	23	—	35	35	50	94	22	—	36	1	35
15	100	27	—	54	1	18	40	1	—	39	—	—
14	27	—	—	16	—	11	25	7	—	17	—	1
13	37	—	—	36	—	1	42	—	—	29	13	—
≤ 12	452	360	2	47	26	17	475	349	2	43	11	70
											Total trips:	2,851

CHARLEVOIX HARBOR, MI

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	694	496	—	132	66	—	688	498	—	122	68	—
FOREIGN												
Total	8	1	—	—	7	—	12	2	—	2	8	—
23	—	—	—	—	—	—	1	1	—	—	—	—
22	—	—	—	—	—	—	2	1	—	—	1	—
21	—	—	—	—	—	—	1	—	—	—	—	—
20	—	—	—	—	—	—	4	—	—	—	4	—
18	—	—	—	—	—	—	2	—	—	—	2	—
14	1	1	—	—	—	—	—	—	—	—	—	—
11	7	—	—	—	7	—	—	—	—	—	—	—
9	—	—	—	—	—	—	2	—	—	2	—	—

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
CHARLEVOIX HARBOR, MI - continued												
	Inbound						Outbound					
DOMESTIC												
Total	686	495	—	132	59	—	676	496	—	120	60	—
23	1	1	—	—	—	—	—	—	—	—	—	—
22	4	4	—	—	—	—	16	16	—	—	—	—
21	5	3	—	—	2	—	78	34	—	—	44	—
20	3	3	—	—	—	—	24	21	—	—	3	—
19	1	1	—	—	—	—	6	2	—	—	4	—
18	1	1	—	—	—	—	1	—	—	—	1	—
17	2	2	—	—	—	—	7	1	—	—	6	—
16	46	46	—	—	—	—	4	3	—	—	1	—
15	1	1	—	—	—	—	5	4	—	—	1	—
14	18	18	—	—	—	—	—	—	—	—	—	—
13	57	—	—	—	57	—	—	—	—	—	—	—
9	132	—	—	132	—	—	120	—	—	120	—	—
8	415	415	—	—	—	—	415	415	—	—	—	—
										Total trips:		1,382
TRAVERSE CITY HARBOR, MI												
	Inbound						Outbound					
Grand Total	470	344	2	64	—	60	472	344	3	73	—	52
FOREIGN												
Total	—	—	—	—	—	—	2	—	2	—	—	—
16	—	—	—	—	—	—	2	—	2	—	—	—
DOMESTIC												
Total	470	344	2	64	—	60	470	344	1	73	—	52
21	27	—	2	—	—	25	—	—	—	—	—	—
20	14	—	—	—	—	14	—	—	—	—	—	—
18	1	—	—	—	—	1	—	—	—	—	—	—
17	2	—	—	—	—	2	17	—	—	—	—	17
16	41	—	—	23	—	18	52	—	—	17	—	35
15	41	—	—	41	—	—	56	—	—	56	—	—
≤ 12	344	344	—	—	—	—	345	344	1	—	—	—
										Total trips:		942
MANISTEE HARBOR, MI												
	Inbound						Outbound					
Grand Total	50	32	—	11	—	7	49	32	—	10	—	7
FOREIGN												
Total	8	4	—	2	—	2	8	4	—	2	—	2
26	1	1	—	—	—	—	—	—	—	—	—	—
23	—	—	—	—	—	—	1	1	—	—	—	—
21	1	1	—	—	—	—	—	—	—	—	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—
19	2	2	—	—	—	—	1	1	—	—	—	—
13	2	—	—	—	—	—	2	2	—	—	—	—
≤ 12	2	—	—	2	—	2	4	—	—	2	—	2
DOMESTIC												
Total	42	28	—	9	—	5	41	28	—	8	—	5
27	3	3	—	—	—	—	—	—	—	—	—	—
26	11	11	—	—	—	—	—	—	—	—	—	—
23	2	2	—	—	—	—	—	—	—	—	—	—
22	5	5	—	—	—	—	—	—	—	—	—	—
21	2	2	—	—	—	—	—	—	—	—	—	—
20	5	5	—	—	—	—	—	—	—	—	—	—
18	—	—	—	—	—	—	6	6	—	—	—	—
17	—	—	—	—	—	—	14	14	—	—	—	—
16	—	—	—	—	—	—	7	7	—	—	—	—
15	—	—	—	—	—	—	1	1	—	—	—	—

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
MANISTEE HARBOR, MI - continued												
	Inbound						Outbound					
DOMESTIC												
≤ 12	14	—	—	9	—	5	13	—	—	8	—	5
	Total trips:										—	99
LUDINGTON HARBOR, MI												
	Inbound						Outbound					
Grand Total												
	383	254	—	89	4	36	378	254	—	79	7	38
FOREIGN												
Total	26	15	—	7	4	—	30	16	—	7	7	—
28	1	1	—	—	—	—	1	1	—	—	—	—
26	2	2	—	—	—	—	—	—	—	—	—	—
25	3	3	—	—	—	—	—	—	—	—	—	—
24	2	2	—	—	—	—	2	2	—	—	—	—
23	2	2	—	—	—	—	2	2	—	—	—	—
22	1	1	—	—	—	—	3	3	—	—	—	—
21	2	2	—	—	—	—	2	2	—	—	—	—
20	—	—	—	—	—	—	4	4	—	—	—	—
19	1	1	—	—	—	—	1	1	—	—	—	—
18	—	—	—	—	—	—	5	—	—	—	5	—
17	—	—	—	—	—	—	1	—	—	—	1	—
15	1	1	—	—	—	—	1	1	—	—	1	—
14	—	—	—	—	—	—	1	—	—	—	—	—
≤ 12	11	—	—	7	4	—	7	—	—	7	—	—
DOMESTIC												
Total	357	239	—	82	—	36	348	238	—	72	—	38
28	1	1	—	—	—	—	—	—	—	—	—	—
27	8	8	—	—	—	—	—	—	—	—	—	—
26	9	9	—	—	—	—	—	—	—	—	—	—
25	2	2	—	—	—	—	—	—	—	—	—	—
22	1	1	—	—	—	—	—	—	—	—	—	—
21	1	1	—	—	—	—	5	5	—	—	—	—
20	2	2	—	—	—	—	—	—	—	—	—	—
19	—	—	—	—	—	—	2	2	—	—	—	—
18	215	215	—	—	—	—	217	217	—	—	—	—
17	—	—	—	—	—	—	11	11	—	—	—	—
16	—	—	—	—	—	—	11	1	—	—	—	10
15	—	—	—	—	—	—	5	2	—	—	—	3
14	—	—	—	—	—	—	1	—	—	—	—	1
≤ 12	118	—	—	82	—	36	96	—	—	72	—	24
	Total trips:										—	761
MUSKEGON HARBOR, MI												
	Inbound						Outbound					
Grand Total												
	257	206	—	27	24	—	249	198	—	28	22	1
FOREIGN												
Total	19	18	—	1	—	—	16	15	—	1	—	—
27	3	3	—	—	—	—	1	1	—	—	—	—
26	9	9	—	—	—	—	2	2	—	—	—	—
25	2	2	—	—	—	—	—	—	—	—	—	—
24	3	3	—	—	—	—	2	2	—	—	—	—
23	—	—	—	—	—	—	3	3	—	—	—	—
21	1	1	—	—	—	—	—	4	—	—	—	—
20	—	—	—	—	—	—	4	3	—	—	—	—
19	—	—	—	—	—	—	3	—	—	—	—	—
≤ 12	1	—	—	1	—	—	1	—	—	1	—	—
DOMESTIC												
Total	238	188	—	26	24	—	233	183	—	27	22	1
28	6	6	—	—	—	—	—	—	—	—	—	—
27	3	3	—	—	—	—	—	—	—	—	—	—

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

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

MUSKEGON HARBOR, MI - continued

	Inbound						Outbound					
DOMESTIC												
26	11	11	—	—	—	—	7	7	—	—	—	—
25	7	7	—	—	—	—	—	—	—	—	—	—
24	12	12	—	—	—	—	—	—	—	—	—	—
23	3	3	—	—	—	—	10	10	—	—	—	—
22	22	20	—	—	—	2	2	—	—	—	—	—
21	7	6	—	—	—	1	11	11	—	—	—	—
20	7	7	—	—	—	—	3	3	—	—	—	—
19	9	7	—	—	—	—	12	10	—	—	—	—
18	1	1	—	—	—	—	11	10	—	2	—	—
17	2	—	—	—	—	2	8	5	—	—	3	—
16	12	—	—	—	—	9	27	14	—	8	5	—
15	1	—	—	—	—	—	5	5	—	—	—	—
14	2	—	—	—	—	2	—	—	—	—	—	—
≤ 12	133	105	—	13	—	15	137	106	—	16	14	1
										Total trips:		506

GRAND HAVEN HARBOR AND GRAND RIVER, MI

	Upbound						Downbound					
Grand Total	126	76	—	32	18	—	111	79	—	14	18	—
FOREIGN												
Total	25	25	—	—	—	—	27	27	—	—	—	—
24	5	5	—	—	—	—	3	3	—	—	—	—
23	7	7	—	—	—	—	10	10	—	—	—	—
22	7	7	—	—	—	—	5	5	—	—	—	—
21	3	3	—	—	—	—	1	1	—	—	—	—
20	2	2	—	—	—	—	7	7	—	—	—	—
17	1	1	—	—	—	—	1	1	—	—	—	—
DOMESTIC												
Total	101	51	—	32	18	—	84	52	—	14	18	—
25	7	7	—	—	—	—	—	—	—	—	—	—
24	1	1	—	—	—	—	—	—	—	—	—	—
23	4	4	—	—	—	—	—	—	—	—	—	—
22	15	15	—	—	—	—	2	2	—	—	—	—
21	23	18	—	—	—	5	11	11	—	—	—	—
20	3	2	—	—	—	1	—	—	—	—	—	—
19	2	1	—	—	—	1	8	8	—	—	—	—
18	1	1	—	—	—	—	16	16	—	—	—	—
17	1	—	—	—	—	1	11	11	—	—	—	—
16	2	2	—	—	—	—	2	2	—	—	—	—
15	1	—	—	—	—	1	2	2	—	—	—	—
14	1	—	—	—	—	1	—	—	—	1	—	—
13	—	—	—	—	—	—	9	—	—	—	9	—
≤ 12	40	—	—	31	9	—	22	—	—	13	—	—
										Total trips:		237

HOLLAND HARBOR, MI

	Inbound						Outbound					
Grand Total	76	74	—	1	1	—	73	71	—	1	1	—
FOREIGN												
Total	5	5	—	—	—	—	2	2	—	—	—	—
26	1	1	—	—	—	—	—	—	—	—	—	—
22	1	1	—	—	—	—	—	—	—	—	—	—
21	2	2	—	—	—	—	—	—	—	—	—	—
19	1	1	—	—	—	—	2	2	—	—	—	—
DOMESTIC												
Total	71	69	—	1	1	—	71	69	—	1	1	—
26	13	13	—	—	—	—	—	—	—	—	—	—
24	3	3	—	—	—	—	—	—	—	—	—	—

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
HOLLAND HARBOR, MI - continued												
Inbound						Outbound						
DOMESTIC												
23	1	1	—	—	—	—	—	—	—	—	—	—
22	6	6	—	—	—	—	—	—	—	—	—	—
21	1	1	—	—	—	—	—	—	—	—	—	—
20	2	2	—	—	—	—	—	—	—	—	—	—
18	1	1	—	—	—	—	—	—	—	—	—	—
17	—	—	—	—	—	—	20	20	—	—	—	—
16	—	—	—	—	—	—	7	7	—	—	—	—
14	1	—	—	1	—	—	1	—	1	—	—	—
9	—	—	—	—	—	—	1	—	—	1	—	—
7	42	42	—	—	—	—	42	42	—	—	—	—
2	1	—	—	—	1	—	—	—	—	—	—	—
											Total trips:	149

ST. JOSEPH HARBOR, MI												
Upbound						Downbound						
Grand Total	54	38	—	8	8	—	57	38	—	11	8	—
DOMESTIC												
Total	54	38	—	8	8	—	57	38	—	11	8	—
25	2	2	—	—	—	—	—	—	—	—	—	—
24	1	1	—	—	—	—	—	—	—	—	—	—
23	6	5	—	—	1	—	—	—	—	—	—	—
22	14	13	—	—	1	—	—	—	—	—	—	—
21	14	13	—	—	1	—	1	1	—	—	—	—
20	1	1	—	—	—	—	5	5	—	—	—	—
19	5	2	—	1	2	—	5	4	—	1	—	—
18	2	1	—	—	1	—	4	4	—	—	—	—
17	2	—	—	—	2	—	1	1	—	—	—	—
16	7	—	—	7	—	—	26	14	—	6	6	—
15	—	—	—	—	—	—	10	9	—	—	1	—
≤ 12	—	—	—	—	—	—	5	—	—	4	1	—
											Total trips:	111

CHEBOYGAN HARBOR, MI												
Inbound						Outbound						
Grand Total	799	666	—	74	—	59	761	661	—	52	—	48
FOREIGN												
Total	4	4	—	—	—	—	—	—	—	—	—	—
23	4	4	—	—	—	—	—	—	—	—	—	—
DOMESTIC												
Total	795	662	—	74	—	59	761	661	—	52	—	48
24	14	—	—	—	—	14	—	—	—	—	—	—
21	1	—	—	—	—	1	—	—	—	—	—	—
20	2	—	—	—	—	2	—	—	—	—	—	—
17	12	—	—	—	—	12	13	—	—	—	—	13
16	52	—	—	22	—	30	46	—	—	11	—	35
15	48	—	—	48	—	—	39	—	—	39	—	—
10	4	—	—	4	—	—	2	—	—	2	—	—
6	443	443	—	—	—	—	442	442	—	—	—	—
5	219	219	—	—	—	—	219	219	—	—	—	—
											Total trips:	1,560

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
MILWAUKEE HARBOR, WI												
	Inbound						Outbound					
Grand Total	1,812	1,190	—	492	105	25	1,797	1,187	—	483	100	27
FOREIGN												
Total	120	103	—	—	17	—	114	101	—	—	13	—
30	—	—	—	—	—	—	1	1	—	—	—	—
28	4	4	—	—	—	—	—	—	—	—	—	—
27	38	38	—	—	—	—	9	9	—	—	—	—
26	8	5	—	—	3	—	4	4	—	—	—	—
25	4	4	—	—	—	—	2	2	—	—	—	—
24	27	16	—	—	11	—	9	9	—	—	—	—
23	9	7	—	—	2	—	23	23	—	—	—	—
22	4	4	—	—	—	—	20	20	—	—	—	—
21	9	9	—	—	—	—	11	11	—	—	—	—
20	2	2	—	—	—	—	4	3	—	—	1	—
19	1	1	—	—	—	—	12	2	—	—	10	—
18	4	4	—	—	—	—	9	9	—	—	—	—
17	6	6	—	—	—	—	2	2	—	—	—	—
16	1	1	—	—	—	—	1	1	—	—	—	—
15	—	—	—	—	—	—	3	2	—	—	1	—
≤ 12	3	2	—	—	1	—	4	3	—	—	1	—
DOMESTIC												
Total	1,692	1,087	—	492	88	25	1,683	1,086	—	483	87	27
28	15	15	—	—	—	—	—	—	—	—	—	—
27	14	14	—	—	—	—	—	—	—	—	—	—
26	18	11	—	—	7	—	—	—	—	—	—	—
25	12	6	—	—	6	—	—	—	—	—	—	—
24	7	3	—	—	4	—	—	—	—	—	—	—
23	9	9	—	—	—	—	—	—	—	—	—	—
22	16	15	—	—	1	—	3	2	—	—	1	—
21	8	5	—	—	3	—	33	29	—	—	4	—
20	10	9	—	—	1	—	—	—	—	—	—	—
19	20	13	—	5	2	—	14	8	—	5	1	—
18	14	6	—	7	—	1	32	15	—	8	9	—
17	13	1	—	—	3	9	21	19	—	—	2	—
16	19	1	—	14	—	4	37	19	—	14	4	—
15	6	1	—	—	—	5	11	10	—	—	1	—
14	7	—	—	4	—	3	10	6	—	4	—	—
13	16	—	—	12	3	1	21	—	—	12	9	—
≤ 12	1,488	978	—	450	58	2	1,501	978	—	440	56	27
										Total trips:	3,609	
PORT WASHINGTON HARBOR, WI												
	Inbound						Outbound					
Grand Total	19	17	—	1	1	—	19	17	—	2	—	—
DOMESTIC												
Total	19	17	—	1	1	—	19	17	—	2	—	—
26	4	4	—	—	—	—	—	—	—	—	—	—
25	7	7	—	—	—	—	—	—	—	—	—	—
24	2	2	—	—	—	—	—	—	—	—	—	—
23	3	3	—	—	—	—	—	—	—	—	—	—
22	1	1	—	—	—	—	11	11	—	—	—	—
21	—	—	—	—	—	—	3	3	—	—	—	—
18	—	—	—	—	—	—	3	3	—	—	—	—
≤ 12	2	—	—	1	1	—	2	—	—	2	—	—
										Total trips:	38	
MANITOWOC HARBOR, WI												
	Inbound						Outbound					
Grand Total	383	228	—	101	54	—	391	229	—	109	53	—
FOREIGN												
Total	1	—	—	—	1	—	1	—	—	—	1	—

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
MANITOWOC HARBOR, WI - continued												
	Inbound						Outbound					
FOREIGN												
24	1	—	—	—	1	—	—	—	—	—	1	—
21	—	—	—	—	—	—	1	—	—	—	—	—
DOMESTIC												
Total	382	228	—	101	53	—	390	229	—	109	52	—
27	3	3	—	—	—	—	1	1	—	—	—	—
26	—	—	—	—	—	—	—	—	—	—	—	—
24	1	—	—	—	1	—	—	—	—	—	—	—
23	1	1	—	—	—	—	—	—	—	—	—	—
22	3	2	—	1	—	—	1	—	—	1	—	—
21	12	2	—	—	10	—	3	3	—	—	—	—
20	2	2	—	—	—	—	—	—	—	—	—	—
19	3	2	—	—	1	—	—	—	—	—	—	—
18	215	215	—	—	—	—	218	218	—	—	—	—
17	1	1	—	—	—	—	—	—	—	—	—	—
16	—	—	—	—	—	—	6	6	—	—	—	—
14	—	—	—	—	—	—	1	1	—	—	—	—
13	14	—	—	11	3	—	26	—	—	11	15	—
≤ 12	127	—	—	89	38	—	134	—	—	97	37	—
										Total trips:		774

GREEN BAY HARBOR, WI												
	Upbound						Downbound					
Grand Total	890	106	4	384	382	14	874	105	4	376	377	12
FOREIGN												
Total	19	12	4	—	3	—	16	12	4	—	—	—
27	1	1	—	—	—	—	—	—	—	—	—	—
26	1	1	—	—	—	—	1	1	—	—	—	—
25	1	1	—	—	—	—	2	1	1	—	—	—
24	11	8	—	—	3	—	5	3	2	—	—	—
23	—	—	—	—	—	—	5	3	2	—	—	—
22	1	—	1	—	—	—	5	5	—	—	—	—
21	1	—	1	—	—	—	—	—	—	—	—	—
19	—	—	—	—	—	—	3	2	1	—	—	—
18	1	—	1	—	—	—	—	—	—	—	—	—
17	1	—	1	—	—	—	—	—	—	—	—	—
15	1	1	—	—	—	—	—	—	—	—	—	—
DOMESTIC												
Total	871	94	—	384	379	14	858	93	—	376	377	12
26	1	1	—	—	—	—	—	—	—	—	—	—
25	11	10	—	—	1	—	—	—	—	—	—	—
24	25	18	—	—	7	—	—	—	—	—	—	—
23	16	14	—	—	2	—	—	—	—	—	—	—
22	16	15	—	—	1	—	1	1	—	—	—	—
21	22	21	—	—	1	—	21	21	—	—	—	—
20	7	7	—	—	—	—	6	6	—	—	—	—
19	7	6	—	1	—	—	10	9	—	1	—	—
18	13	1	—	6	1	—	23	18	—	5	—	—
17	3	1	—	—	—	2	3	2	—	—	1	—
16	8	—	—	5	—	3	25	11	—	4	10	—
15	2	—	—	—	—	2	16	16	—	—	—	—
13	14	—	—	14	—	—	11	—	—	11	—	—
≤ 12	726	—	—	358	366	2	742	9	—	355	366	12
										Total trips:		1,764

ALPENA HARBOR, MI												
	Inbound						Outbound					
Grand Total	231	170	—	29	32	—	258	179	—	37	42	—
FOREIGN												
Total	25	25	—	—	—	—	15	15	—	—	—	—

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

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

ALPENA HARBOR, MI - continued

	Inbound						Outbound					
FOREIGN												
26	—	—	—	—	—	—	2	2	—	—	—	—
24	1	1	—	—	—	—	2	2	—	—	—	—
23	—	—	—	—	—	—	2	2	—	—	—	—
22	2	2	—	—	—	—	2	2	—	—	—	—
21	5	5	—	—	—	—	1	1	—	—	—	—
20	13	13	—	—	—	—	2	2	—	—	—	—
19	—	—	—	—	—	—	2	2	—	—	—	—
18	1	1	—	—	—	—	—	—	—	—	—	—
17	1	1	—	—	—	—	—	—	—	—	—	—
16	2	2	—	—	—	—	2	2	—	—	—	—
DOMESTIC												
Total	206	145	—	29	32	—	243	164	—	37	42	—
27	4	4	—	—	—	—	2	2	—	—	—	—
26	13	13	—	—	—	—	44	30	—	—	14	—
25	1	1	—	—	—	—	47	38	—	—	9	—
24	3	3	—	—	—	—	24	14	—	—	10	—
23	8	8	—	—	—	—	14	11	—	—	3	—
22	16	16	—	—	—	—	24	18	—	—	6	—
21	4	4	—	—	—	—	2	2	—	—	—	—
20	19	19	—	—	—	—	1	1	—	—	—	—
19	34	27	—	7	—	—	9	1	—	8	—	—
18	34	34	—	—	—	—	14	13	—	1	—	—
17	—	—	—	—	—	—	21	21	—	—	—	—
16	51	—	—	22	29	—	34	6	—	28	—	—
15	3	—	—	—	3	—	7	7	—	—	—	—
≤ 12	16	16	—	—	—	—	—	—	—	—	—	—
Total trips:											489	

MENOMINEE HARBOR AND RIVER, MI AND WI

	Inbound						Outbound					
Grand Total	27	21	—	3	3	—	28	22	—	3	3	—
FOREIGN												
Total	14	14	—	—	—	—	15	15	—	—	—	—
25	3	3	—	—	—	—	—	—	—	—	—	—
24	5	5	—	—	—	—	—	—	—	—	—	—
23	3	3	—	—	—	—	3	3	—	—	—	—
22	1	1	—	—	—	—	5	5	—	—	—	—
21	1	1	—	—	—	—	5	5	—	—	—	—
20	—	—	—	—	—	—	1	1	—	—	—	—
19	1	1	—	—	—	—	1	1	—	—	—	—
DOMESTIC												
Total	13	7	—	3	3	—	13	7	—	3	3	—
20	5	5	—	—	—	—	—	—	—	—	—	—
19	1	1	—	—	—	—	1	1	—	—	—	—
18	1	1	—	—	—	—	5	5	—	—	—	—
16	—	—	—	—	—	—	1	1	—	—	—	—
14	3	—	—	3	—	—	3	—	—	3	—	—
≤ 12	3	—	—	—	3	—	3	—	—	—	3	—
Total trips:											55	

SAGINAW RIVER, MI

	Upbound						Downbound					
Grand Total	384	291	7	50	20	16	452	356	7	48	24	17
FOREIGN												
Total	83	73	6	1	3	—	87	74	5	1	6	1
26	—	—	—	—	—	—	20	20	—	—	—	—
25	1	1	—	—	—	—	17	17	—	—	—	—
24	1	1	—	—	—	—	17	17	—	—	—	—

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
SAGINAW RIVER, MI - continued												
	Upbound						Downbound					
FOREIGN												
23	9	6	3	—	—	—	13	13	—	—	—	—
22	20	19	1	—	—	—	2	2	—	—	—	—
21	3	3	—	—	—	—	1	1	—	—	—	—
20	22	20	2	—	—	—	4	4	—	—	—	—
19	13	13	—	—	—	—	3	—	3	—	—	—
18	9	9	—	—	—	—	1	—	1	—	—	—
17	—	—	—	—	—	—	1	—	—	—	—	1
16	—	—	—	—	—	—	1	—	1	—	—	—
15	3	1	—	—	2	—	—	—	—	—	—	—
14	—	—	—	—	—	—	5	—	—	—	5	—
≤ 12	2	—	—	1	1	—	2	—	—	1	1	—
DOMESTIC												
Total	301	218	1	49	17	16	365	282	2	47	18	16
27	—	—	—	—	—	—	8	8	—	—	—	—
26	—	—	—	—	—	—	79	79	—	—	—	—
25	—	—	—	—	—	—	9	6	—	—	3	—
24	—	—	—	—	—	—	26	18	—	—	8	—
23	—	—	—	—	—	—	60	59	—	—	1	—
22	2	—	—	2	—	—	67	60	2	2	3	—
21	1	1	—	—	—	—	12	12	—	—	—	—
20	4	4	—	—	—	—	19	19	—	—	—	—
19	17	15	—	2	—	—	8	6	—	2	—	—
18	31	30	—	1	—	—	10	7	—	1	1	—
17	85	85	—	—	—	—	3	3	—	—	—	—
16	56	41	—	3	12	—	15	1	—	3	1	10
15	38	36	—	—	2	—	2	1	—	—	—	1
14	1	—	—	1	—	—	4	—	—	1	—	3
13	9	—	—	9	—	—	11	—	—	10	—	1
≤ 12	57	6	1	31	3	16	32	3	—	28	1	—
										Total trips:		836

ST. CLAIR RIVER, MI

Grand Total	Upbound						Downbound					
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
Grand Total	3,789	2,998	74	294	257	166	3,615	2,815	102	287	241	170
FOREIGN												
Total	1,951	1,493	68	135	182	73	1,612	1,182	97	104	158	71
30	6	6	—	—	—	—	—	—	—	—	—	—
29	88	77	11	—	—	—	118	80	38	—	—	—
28	81	77	4	—	—	—	36	33	1	—	2	—
27	169	165	3	—	1	—	285	282	2	—	1	—
26	81	64	1	16	—	—	155	127	2	8	15	3
25	107	105	2	—	—	—	51	47	2	—	2	—
24	206	194	6	2	4	—	94	88	3	—	3	—
23	178	174	4	—	—	—	110	94	10	—	3	—
22	93	89	1	1	1	1	109	104	4	—	1	—
21	97	92	4	—	—	1	61	59	2	—	—	—
20	141	129	—	—	11	1	53	40	6	—	6	1
19	100	78	11	—	6	5	36	18	3	1	8	6
18	52	37	4	1	6	4	36	23	5	1	3	4
17	22	15	1	—	2	4	31	8	2	—	19	2
16	34	10	7	5	12	—	49	6	12	2	21	8
15	46	11	3	—	23	9	50	8	2	1	12	27
14	18	3	2	4	9	—	22	3	—	10	3	6
13	13	3	2	2	2	4	11	6	2	1	1	1
≤ 12	419	164	2	104	105	44	305	156	1	80	58	10
DOMESTIC												
Total	1,838	1,505	6	159	75	93	2,003	1,633	5	183	83	99
30	—	—	—	—	—	—	9	9	—	—	—	—
29	1	1	—	—	—	—	126	125	—	—	1	—
28	18	17	—	—	—	—	378	372	—	—	6	—
27	40	32	—	2	6	—	348	333	—	2	13	—
26	65	65	—	—	—	—	372	359	—	—	13	—
25	12	12	—	—	—	—	121	104	—	—	17	—
24	44	35	—	6	3	—	74	58	—	6	10	—

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
ST. CLAIR RIVER, MI - continued												
	Upbound						Downbound					
DOMESTIC												
23	173	160	—	1	12	—	55	49	—	—	6	—
22	157	135	2	19	1	—	128	106	—	22	—	—
21	111	108	2	—	1	—	76	63	—	—	13	—
20	91	91	—	—	—	—	28	28	—	—	—	—
19	120	119	—	1	—	—	15	9	1	2	2	1
18	373	354	—	16	1	2	31	6	—	20	—	5
17	203	203	—	—	—	—	14	4	—	—	1	9
16	109	84	—	1	24	—	14	2	—	1	1	10
15	74	74	—	—	—	—	18	1	—	—	—	17
14	27	9	—	15	—	3	25	—	—	15	—	10
13	57	—	—	43	13	1	60	—	—	59	—	1
≤ 12	163	6	2	55	13	87	111	5	4	56	—	46
										Total trips:		7,404

PORT HURON, MI												
	Inbound						Outbound					
Grand Total	54	43	3	6	1	1	52	42	2	6	1	1
FOREIGN												
Total	30	23	3	3	1	—	27	22	1	3	1	—
27	2	2	—	—	—	—	2	2	—	—	—	—
26	2	2	—	—	—	—	2	2	—	—	—	—
24	1	1	—	—	—	—	—	—	—	—	—	—
23	1	1	—	—	—	—	1	1	—	—	—	—
21	1	1	—	—	—	—	—	—	—	—	—	—
19	—	—	—	—	—	—	1	1	—	—	—	—
17	—	—	—	—	—	—	1	1	1	—	—	—
16	3	—	2	1	—	—	2	—	—	1	1	—
15	1	—	1	—	—	—	—	—	—	—	—	—
≤ 12	19	16	—	2	1	—	18	16	—	2	—	—
DOMESTIC												
Total	24	20	—	3	—	1	25	20	1	3	—	1
27	1	1	—	—	—	—	—	—	—	—	—	—
26	9	9	—	—	—	—	—	—	—	—	—	—
22	9	9	—	—	—	—	—	—	—	—	—	—
18	1	1	—	—	—	—	1	1	—	—	—	—
17	—	—	—	—	—	—	9	9	—	—	—	—
16	—	—	—	—	—	—	9	9	—	—	—	—
15	—	—	—	—	—	—	9	9	—	—	—	—
≤ 12	4	—	—	3	—	1	5	—	1	3	—	1
										Total trips:		106

MARYSVILLE, MI												
	Inbound						Outbound					
Grand Total	73	67	—	4	—	2	69	63	—	4	1	1
FOREIGN												
Total	12	12	—	—	—	—	13	11	—	1	1	—
28	1	1	—	—	—	—	—	—	—	—	—	—
27	4	4	—	—	—	—	2	2	—	—	—	—
26	3	3	—	—	—	—	—	—	—	—	—	—
25	1	1	—	—	—	—	—	—	—	—	—	—
24	—	—	—	—	—	—	3	3	—	—	—	—
23	1	1	—	—	—	—	2	2	—	—	—	—
22	—	—	—	—	—	—	1	1	—	—	—	—
21	2	2	—	—	—	—	1	1	—	—	—	—
20	—	—	—	—	—	—	2	2	—	—	—	—
≤ 12	—	—	—	—	—	—	2	—	—	1	1	—

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
MARYSVILLE, MI - continued												
Inbound						Outbound						
DOMESTIC												
Total	61	55	---	4	---	2	56	52	---	3	---	1
28	1	1	---	---	---	---	---	---	---	---	---	---
27	8	8	---	---	---	---	---	---	---	---	---	---
26	23	23	---	---	---	---	2	2	---	---	---	---
25	2	2	---	---	---	---	---	---	---	---	---	---
24	3	3	---	---	---	---	---	---	---	---	---	---
23	1	1	---	---	---	---	---	---	---	---	---	---
22	6	6	---	---	---	---	1	1	---	---	---	---
21	4	4	---	---	---	---	2	2	---	---	---	---
20	2	2	---	---	---	---	---	---	---	---	---	---
19	1	1	---	---	---	---	1	1	---	---	---	---
18	3	3	---	---	---	---	11	11	---	---	---	---
17	---	---	---	---	---	---	22	22	---	---	---	---
16	---	---	---	---	---	---	2	2	---	---	---	---
15	1	1	---	---	---	---	11	11	---	---	---	---
14	1	---	---	1	---	---	---	---	---	---	---	---
≤ 12	5	---	---	3	---	2	4	---	---	3	---	1
										Total trips:		142
ST. CLAIR, MI												
Inbound						Outbound						
Grand Total	172	122	---	22	---	28	165	119	---	20	---	26
FOREIGN												
Total	1	1	---	---	---	---	1	1	---	---	---	---
≤ 12	1	1	---	---	---	---	1	1	---	---	---	---
DOMESTIC												
Total	171	121	---	22	---	28	164	118	---	20	---	26
29	8	8	---	---	---	---	---	---	---	---	---	---
28	66	66	---	---	---	---	1	1	---	---	---	---
27	32	32	---	---	---	---	8	8	---	---	---	---
26	8	8	---	---	---	---	---	---	---	---	---	---
25	5	5	---	---	---	---	4	4	---	---	---	---
23	---	---	---	---	---	---	29	29	---	---	---	---
22	1	1	---	---	---	---	24	24	---	---	---	---
21	1	1	---	---	---	---	24	24	---	---	---	---
20	---	---	---	---	---	---	18	18	---	---	---	---
19	---	---	---	---	---	---	2	2	---	---	---	---
18	---	---	---	---	---	---	3	3	---	---	---	---
17	---	---	---	---	---	---	4	4	---	---	---	---
15	---	---	---	---	---	---	1	1	---	---	---	---
≤ 12	50	---	---	22	---	28	46	---	---	20	---	26
										Total trips:		337
MARINE CITY, MI												
Inbound						Outbound						
Grand Total	93	93	---	---	---	---	91	91	---	---	---	---
DOMESTIC												
Total	93	93	---	---	---	---	91	91	---	---	---	---
29	28	28	---	---	---	---	---	---	---	---	---	---
28	18	18	---	---	---	---	---	---	---	---	---	---
27	5	5	---	---	---	---	---	---	---	---	---	---
26	22	22	---	---	---	---	---	---	---	---	---	---
25	7	7	---	---	---	---	---	---	---	---	---	---
24	1	1	---	---	---	---	---	---	---	---	---	---
23	1	1	---	---	---	---	45	45	---	---	---	---
22	7	7	---	---	---	---	---	---	---	---	---	---
20	3	3	---	---	---	---	1	1	---	---	---	---
19	---	---	---	---	---	---	2	2	---	---	---	---
18	1	1	---	---	---	---	8	8	---	---	---	---

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
MARINE CITY, MI - continued												
Inbound						Outbound						
DOMESTIC												
17	—	—	—	—	—	—	22	22	—	—	—	—
16	—	—	—	—	—	—	10	10	—	—	—	—
15	—	—	—	—	—	—	3	3	—	—	—	—
											Total trips:	184
CHANNELS IN LAKE ST. CLAIR												
Upbound						Downbound						
Grand Total	3,141	2,550	52	223	174	142	3,136	2,472	67	252	189	156
FOREIGN												
Total	1,535	1,273	46	67	99	50	1,381	1,087	62	69	106	57
30	3	3	—	—	—	—	—	—	—	—	—	—
29	56	46	10	—	—	—	115	80	35	—	—	—
28	45	41	4	—	—	—	36	33	1	—	2	—
27	153	149	3	—	1	—	263	260	2	—	1	—
26	75	58	1	16	—	—	145	117	2	8	15	3
25	97	95	2	—	—	—	47	43	2	—	2	—
24	177	169	2	2	4	—	69	65	1	—	3	—
23	150	146	4	—	—	—	95	87	2	—	3	3
22	76	72	1	1	1	1	103	100	2	—	1	—
21	89	86	2	—	—	1	56	56	—	—	—	—
20	128	120	—	—	7	1	45	37	3	—	4	1
19	75	65	5	—	2	3	29	17	2	1	6	3
18	40	35	2	1	—	2	29	23	1	1	2	2
17	18	15	1	—	1	1	24	8	1	—	14	1
16	18	10	4	—	4	—	32	6	5	1	16	4
15	40	11	2	—	19	8	44	8	1	1	7	27
14	7	1	2	2	2	—	15	3	—	5	3	4
13	9	3	1	1	1	3	9	5	1	1	1	1
≤ 12	279	148	—	44	57	30	225	139	1	51	26	8
DOMESTIC												
Total	1,606	1,277	6	156	75	92	1,755	1,385	5	183	83	99
30	—	—	—	—	—	—	9	9	—	—	—	—
29	1	1	—	—	—	—	90	89	—	—	1	—
28	18	17	—	—	1	—	294	288	—	—	6	—
27	40	32	—	2	6	—	305	290	—	2	13	—
26	63	63	—	—	—	—	318	305	—	—	13	—
25	12	12	—	—	—	—	107	90	—	—	17	—
24	44	35	—	6	3	—	73	57	—	6	10	—
23	114	101	—	1	12	—	55	49	—	—	6	—
22	138	116	2	19	1	—	112	90	—	22	—	—
21	98	95	2	—	1	—	76	63	—	—	13	—
20	73	73	—	—	—	—	26	26	—	—	—	—
19	115	114	—	1	—	—	15	9	1	2	2	1
18	351	332	—	16	1	2	30	5	—	20	—	5
17	146	146	—	—	—	—	14	4	—	—	1	9
16	88	63	—	1	24	—	14	2	—	1	1	10
15	59	59	—	—	—	—	18	1	—	—	—	17
14	27	9	—	15	—	3	25	—	—	15	—	10
13	57	—	—	43	13	1	60	—	—	59	—	1
≤ 12	162	9	2	52	13	86	114	8	4	56	—	46
											Total trips:	6,277
DETROIT RIVER, MI												
Upbound						Downbound						
Grand Total	5,347	4,105	63	484	319	376	5,310	4,054	89	481	357	329
FOREIGN												
Total	2,327	1,774	54	184	241	74	2,243	1,634	79	176	271	83
30	3	3	—	—	—	—	—	—	—	—	—	—
29	56	46	10	—	—	—	115	80	35	—	—	—
28	46	42	4	—	—	—	39	36	1	—	2	—

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
DETROIT RIVER, MI - continued												
Upbound						Downbound						
FOREIGN												
27	235	231	3	—	1	—	298	295	2	—	1	—
26	130	111	1	16	1	1	184	156	2	8	15	3
25	124	122	2	—	—	—	89	84	2	—	3	—
24	261	250	2	2	7	—	166	162	1	—	3	—
23	173	169	4	—	—	—	192	184	2	—	3	3
22	97	92	1	1	1	2	154	145	2	—	1	6
21	106	102	2	—	—	2	76	66	—	—	2	8
20	154	144	—	—	8	2	90	54	17	—	12	7
19	88	78	5	—	2	3	54	35	3	1	11	4
18	63	58	2	1	—	2	49	41	2	1	2	3
17	26	20	1	—	2	3	30	14	1	—	14	1
16	21	12	4	—	5	—	37	8	5	2	18	4
15	41	11	2	—	19	9	47	8	1	1	10	27
14	14	1	2	4	7	—	36	7	—	22	3	4
13	27	5	9	1	1	11	10	5	2	1	1	1
≤ 12	662	277	—	159	187	39	577	254	1	140	170	12
DOMESTIC												
Total	3,020	2,331	9	300	78	302	3,067	2,420	10	305	86	246
30	—	—	—	—	—	—	9	9	—	—	—	—
29	1	1	—	—	—	—	90	89	—	—	1	—
28	19	18	—	—	1	—	294	288	—	—	6	—
27	42	34	—	2	6	—	310	295	—	2	13	—
26	64	63	—	—	1	—	314	301	—	—	13	—
25	17	17	—	—	—	—	107	90	—	—	17	—
24	56	47	—	6	3	—	73	57	—	6	10	—
23	132	119	—	1	12	—	57	51	—	—	6	—
22	168	145	2	20	1	—	113	91	—	22	—	—
21	120	117	2	—	1	—	80	67	—	—	13	—
20	80	80	—	—	—	—	36	34	—	—	2	—
19	122	119	—	2	1	—	34	11	4	3	2	14
18	399	337	—	59	1	2	148	47	—	61	—	40
17	152	152	—	—	—	—	25	15	—	—	1	9
16	89	64	—	1	24	—	31	12	—	1	2	16
15	69	60	—	9	—	—	56	16	—	9	—	31
14	61	9	—	46	—	—	57	—	—	43	—	14
13	62	—	—	47	14	1	72	—	—	66	—	6
≤ 12	1,367	949	5	107	13	293	1,161	947	6	92	—	116
Total trips:											10,657	
DETROIT HARBOR, MI												
Inbound						Outbound						
Grand Total	1,332	1,145	4	73	60	50	1,333	1,141	2	79	64	47
FOREIGN												
Total	267	190	3	33	37	4	267	183	2	38	42	2
28	5	5	—	—	—	—	—	—	—	—	—	—
27	47	47	—	—	—	—	3	3	—	—	—	—
26	35	35	—	—	—	—	3	3	—	—	—	—
25	11	11	—	—	—	—	24	24	—	—	—	—
24	42	42	—	—	—	—	54	54	—	—	—	—
23	9	9	—	—	—	—	44	44	—	—	—	—
22	14	14	—	—	—	—	12	12	—	—	—	—
21	5	5	—	—	—	—	5	4	—	—	1	—
20	8	5	—	—	2	1	7	5	2	—	—	—
19	8	5	—	—	1	2	10	10	—	—	—	—
18	5	5	—	—	—	—	11	11	—	—	—	—
17	12	—	—	—	12	—	6	6	—	—	—	—
16	8	—	—	—	8	—	3	—	—	1	2	—
15	3	—	—	—	3	—	3	—	—	—	3	—
14	6	—	—	4	1	1	7	3	—	3	1	—
13	4	1	3	—	—	—	1	—	—	—	1	—
≤ 12	45	6	—	29	10	—	74	4	—	34	34	2

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
DETROIT HARBOR, MI - continued												
	Inbound						Outbound					
DOMESTIC												
Total	1,065	955	1	40	23	46	1,066	958	—	41	22	45
27	8	3	—	—	5	—	—	—	—	—	—	—
26	16	9	—	—	7	—	1	1	—	—	—	—
25	13	11	—	—	2	—	—	—	—	—	—	—
24	3	2	—	—	1	—	—	—	—	—	—	—
23	1	1	—	—	—	—	—	—	—	—	—	—
22	8	3	—	5	—	—	4	—	—	4	—	—
21	19	14	—	—	5	—	3	3	—	—	—	—
20	10	10	—	—	—	—	10	8	—	—	2	—
19	8	3	1	2	2	—	7	5	—	2	—	—
18	2	2	—	—	—	—	24	23	—	—	1	—
17	5	5	—	—	—	—	6	6	—	—	—	—
16	3	1	—	1	—	1	25	15	—	1	9	—
15	1	1	—	—	—	—	1	1	—	—	—	—
14	1	—	—	—	—	1	4	4	—	—	—	—
13	11	—	—	10	1	—	20	—	—	14	6	—
≤ 12	956	890	—	22	—	44	961	892	—	20	4	45
										Total trips:		2,665

ROUGE RIVER, MI												
	Inbound						Outbound					
Grand Total	1,249	514	6	298	194	237	1,151	421	21	312	162	235
FOREIGN												
Total	383	71	4	112	187	9	391	66	15	143	155	12
28	2	1	—	—	1	—	—	—	—	—	—	—
27	26	26	—	—	—	—	1	1	—	—	—	—
26	47	21	—	8	14	4	16	—	—	16	—	—
25	5	2	—	—	3	—	2	2	—	—	—	—
24	4	4	—	—	—	—	8	—	—	—	—	—
23	4	4	—	—	—	—	18	18	—	—	—	—
22	1	1	—	—	—	—	5	5	—	—	—	—
21	1	1	—	—	—	—	2	1	—	—	1	—
20	4	2	—	—	2	—	32	8	12	—	11	1
19	4	3	1	—	—	—	23	18	1	—	2	2
18	3	2	—	—	1	—	5	3	1	—	—	1
17	3	1	—	—	2	—	—	—	—	—	—	—
16	2	—	—	—	2	—	2	1	—	—	1	—
15	5	—	—	—	1	4	15	—	—	—	11	4
14	10	—	—	6	4	—	12	—	—	12	—	—
13	4	1	3	—	—	—	1	—	1	—	—	—
≤ 12	258	2	—	98	157	1	249	1	—	115	129	4
DOMESTIC												
Total	866	443	2	186	7	228	760	355	6	169	7	223
28	172	172	—	—	—	—	—	—	—	—	—	—
27	72	71	—	—	1	—	—	—	—	—	—	—
26	51	46	—	—	5	—	—	—	—	—	—	—
25	29	29	—	—	—	—	—	—	—	—	—	—
24	18	18	—	—	—	—	—	—	—	—	—	—
23	23	23	—	—	—	—	3	3	—	—	—	—
22	48	44	—	4	—	—	10	6	—	4	—	—
21	27	27	—	—	—	—	8	8	—	—	—	—
20	7	6	—	—	1	—	8	8	—	—	—	—
19	5	5	—	—	—	—	37	21	3	—	—	13
18	52	2	—	48	—	2	305	224	—	45	—	36
17	1	—	—	—	—	—	28	28	—	—	—	—
16	3	—	—	—	—	3	38	30	—	—	3	5
15	16	—	—	9	—	7	45	27	—	9	—	9
14	45	—	—	33	—	12	35	—	—	29	—	6
13	22	—	—	20	—	2	15	—	—	11	—	4
≤ 12	275	—	2	72	—	201	228	—	3	71	4	150
										Total trips:		2,400

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
ECORSE, MI												
	Inbound						Outbound					
Grand Total	81	69	---	6	---	6	79	68	---	5	1	5
FOREIGN												
Total	67	67	---	---	---	---	68	67	---	---	1	---
23	44	44	---	---	---	---	38	38	---	---	---	---
22	4	4	---	---	---	---	2	2	---	---	---	---
21	2	2	---	---	---	---	3	3	---	---	---	---
20	1	1	---	---	---	---	3	3	---	---	---	---
19	---	---	---	---	---	---	1	1	---	---	---	---
18	3	3	---	---	---	---	5	5	---	---	---	---
17	2	2	---	---	---	---	3	3	---	---	---	---
16	2	2	---	---	---	---	3	3	---	---	---	---
14	---	---	---	---	---	---	1	1	---	---	---	---
≤ 12	9	9	---	---	---	---	9	8	---	---	1	---
DOMESTIC												
Total	14	2	---	6	---	6	11	1	---	5	---	5
21	2	2	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	1	1	---	---	---	---
14	4	---	---	4	---	---	3	---	---	3	---	---
≤ 12	8	---	---	2	---	6	7	---	---	2	---	5
											Total trips:	160
PORT OF DETROIT, MI												
	Inbound						Outbound					
Grand Total	2,738	1,800	10	379	255	294	2,503	1,691	23	364	225	200
FOREIGN												
Total	719	330	7	145	224	13	729	319	17	181	198	14
28	7	6	---	---	1	---	---	---	---	---	---	---
27	73	73	---	---	---	---	4	4	---	---	---	---
26	87	61	---	8	14	4	22	6	---	16	---	---
25	25	22	---	---	3	---	33	33	---	---	---	---
24	73	73	---	---	---	---	89	89	---	---	---	---
23	16	16	---	---	---	---	63	63	---	---	---	---
22	19	19	---	---	---	---	19	19	---	---	---	---
21	8	8	---	---	---	---	10	8	---	---	2	---
20	13	8	---	---	4	1	42	16	14	---	11	1
19	12	8	1	---	1	2	35	30	1	---	2	2
18	11	10	---	---	1	---	21	19	1	---	---	1
17	17	3	---	---	14	---	9	9	---	---	---	---
16	12	2	---	---	10	---	8	4	---	1	3	---
15	8	---	---	---	4	4	18	---	---	---	14	4
14	16	---	---	10	5	1	20	4	---	15	1	---
13	8	2	6	---	---	---	2	---	1	---	1	---
≤ 12	314	19	---	127	167	1	334	15	---	149	164	6
DOMESTIC												
Total	2,019	1,470	3	234	31	281	1,774	1,372	6	183	27	186
28	172	172	---	---	---	---	---	---	---	---	---	---
27	80	74	---	---	6	---	---	---	---	---	---	---
26	68	56	---	---	12	---	1	1	---	---	---	---
25	42	40	---	---	2	---	---	---	---	---	---	---
24	21	20	---	---	1	---	---	---	---	---	---	---
23	24	24	---	---	---	---	3	3	---	---	---	---
22	59	50	---	9	---	---	14	6	---	8	---	---
21	48	43	---	---	5	---	11	11	---	---	---	---
20	20	18	---	---	2	---	16	16	---	---	---	---
19	15	10	1	2	2	---	44	26	3	2	---	13
18	56	5	---	49	---	2	328	247	---	44	1	36
17	7	6	---	---	---	1	35	35	---	---	---	---
16	7	1	---	1	---	5	66	49	---	1	12	4
15	17	1	---	9	---	7	48	30	---	9	---	9
14	50	---	---	37	---	13	37	4	---	27	---	6
13	33	---	---	30	1	2	34	---	---	24	6	4
≤ 12	1,300	950	2	97	---	251	1,137	944	3	68	8	114
											Total trips:	5,241

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
MONROE HARBOR, MI												
	Inbound						Outbound					
Grand Total	118	105	---	7	1	5	124	104	---	10	1	9
FOREIGN												
Total	3	1	---	1	1	---	3	1	---	1	1	---
20	---	---	---	---	---	---	1	---	---	---	1	---
19	2	1	---	---	1	---	1	1	---	---	---	---
14	---	---	---	---	---	---	1	---	---	1	---	---
12	1	---	---	1	---	---	---	---	---	---	---	---
DOMESTIC												
Total	115	104	---	6	---	5	121	103	---	9	---	9
28	2	2	---	---	---	---	---	---	---	---	---	---
27	12	12	---	---	---	---	---	---	---	---	---	---
26	7	7	---	---	---	---	---	---	---	---	---	---
25	6	6	---	---	---	---	---	---	---	---	---	---
24	3	3	---	---	---	---	---	---	---	---	---	---
23	30	30	---	---	---	---	18	18	---	---	---	---
22	23	23	---	---	---	---	18	18	---	---	---	---
21	18	18	---	---	---	---	1	1	---	---	---	---
20	2	2	---	---	---	---	7	7	---	---	---	---
19	1	---	---	---	---	1	8	8	---	---	---	---
18	2	1	---	1	---	---	34	32	---	2	---	---
17	1	---	---	---	---	1	11	11	---	---	---	---
16	2	---	---	---	---	2	2	2	---	---	---	---
15	2	---	---	1	---	1	7	6	---	1	---	---
14	3	---	---	3	---	---	4	---	---	4	---	---
13	1	---	---	1	---	---	1	---	---	1	---	---
9	---	---	---	---	---	---	2	---	---	1	---	1
7	---	---	---	---	---	---	5	---	---	---	---	5
6	---	---	---	---	---	---	1	---	---	---	---	1
5	---	---	---	---	---	---	2	---	---	---	---	2
											Total trips:	242

CALCITE, MI												
	Inbound						Outbound					
Grand Total	477	453	---	12	12	---	489	461	---	14	14	---
FOREIGN												
Total	79	79	---	---	---	---	82	82	---	---	---	---
28	---	---	---	---	---	---	3	3	---	---	---	---
27	---	---	---	---	---	---	32	32	---	---	---	---
26	1	1	---	---	---	---	23	23	---	---	---	---
25	5	5	---	---	---	---	5	5	---	---	---	---
24	14	14	---	---	---	---	8	8	---	---	---	---
23	27	27	---	---	---	---	7	7	---	---	---	---
22	19	19	---	---	---	---	3	3	---	---	---	---
21	4	4	---	---	---	---	---	---	---	---	---	---
20	6	6	---	---	---	---	---	---	---	---	---	---
19	2	2	---	---	---	---	1	1	---	---	---	---
17	1	1	---	---	---	---	---	---	---	---	---	---
DOMESTIC												
Total	398	374	---	12	12	---	407	379	---	14	14	---
30	---	---	---	---	---	---	1	1	---	---	---	---
29	---	---	---	---	---	---	1	1	---	---	---	---
28	---	---	---	---	---	---	2	2	---	---	---	---
27	6	3	---	3	---	---	102	99	---	3	---	---
26	1	1	---	---	---	---	103	100	---	---	3	---
25	1	1	---	---	---	---	51	49	---	---	2	---
24	9	4	---	3	---	---	31	19	---	4	---	8
23	11	7	---	---	2	4	34	33	---	---	1	---
22	36	36	---	---	---	---	45	45	---	---	---	---
21	62	62	---	---	---	---	16	16	---	---	---	---
20	14	14	---	---	---	---	8	8	---	---	---	---
19	27	27	---	---	---	---	2	2	---	---	---	---
18	87	87	---	---	---	---	2	2	---	---	---	---
17	88	88	---	---	---	---	1	1	---	---	---	---

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
CALCITE, MI - continued												
				Inbound							Outbound	
DOMESTIC												
16	30	24	—	—	6	—	—	—	—	—	—	—
15	20	20	—	—	—	—	1	1	—	—	—	—
13	6	—	—	6	—	—	7	—	—	7	—	—
										Total trips:		966
ESCANABA, MI												
				Inbound							Outbound	
Grand Total												
	239	205	—	18	16	—	243	205	—	19	19	—
FOREIGN												
Total	2	2	—	—	—	—	2	2	—	—	—	—
27	1	1	—	—	—	—	—	—	—	—	—	—
26	1	1	—	—	—	—	—	—	—	—	—	—
24	—	—	—	—	—	—	1	1	—	—	—	—
19	—	—	—	—	—	—	1	1	—	—	—	—
DOMESTIC												
Total	237	203	—	18	16	—	241	203	—	19	19	—
31	—	—	—	—	—	—	7	7	—	—	—	—
30	—	—	—	—	—	—	46	46	—	—	—	—
29	1	1	—	—	—	—	16	16	—	—	—	—
28	—	—	—	—	—	—	32	31	—	—	1	—
27	1	1	—	—	—	—	62	52	—	—	10	—
26	10	10	—	—	—	—	25	22	—	—	3	—
25	12	12	—	—	—	—	4	2	—	—	2	—
24	1	1	—	—	—	—	3	1	—	—	2	—
23	17	16	—	—	1	—	—	—	—	—	—	—
22	17	8	—	9	—	—	15	5	—	10	—	—
21	87	87	—	—	—	—	8	8	—	—	—	—
20	3	3	—	—	—	—	2	2	—	—	—	—
19	12	12	—	—	—	—	—	—	—	—	—	—
18	40	40	—	—	—	—	6	6	—	—	—	—
17	9	9	—	—	—	—	4	4	—	—	—	—
16	9	3	—	—	6	—	1	—	—	—	1	—
15	—	—	—	—	—	—	1	1	—	—	—	—
13	9	—	—	9	—	—	9	—	—	9	—	—
9	9	—	—	—	9	—	—	—	—	—	—	—
										Total trips:		482
STONEPORT, MI												
				Inbound							Outbound	
Grand Total												
	408	359	—	24	25	—	422	366	—	28	28	—
FOREIGN												
Total	13	13	—	—	—	—	12	12	—	—	—	—
27	—	—	—	—	—	—	5	5	—	—	—	—
26	—	—	—	—	—	—	7	7	—	—	—	—
24	2	2	—	—	—	—	—	—	—	—	—	—
23	2	2	—	—	—	—	—	—	—	—	—	—
22	4	4	—	—	—	—	—	—	—	—	—	—
21	1	1	—	—	—	—	—	—	—	—	—	—
20	1	1	—	—	—	—	—	—	—	—	—	—
18	2	2	—	—	—	—	—	—	—	—	—	—
9	1	1	—	—	—	—	—	—	—	—	—	—
DOMESTIC												
Total	395	346	—	24	25	—	410	354	—	28	28	—
29	—	—	—	—	—	—	1	1	—	—	—	—
28	1	1	—	—	—	—	2	2	—	—	—	—
27	3	3	—	—	—	—	89	83	—	—	6	—
26	4	4	—	—	—	—	124	118	—	—	6	—
25	—	—	—	—	—	—	22	16	—	—	6	—

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
STONEPORT, MI - continued												
	Inbound						Outbound					
DOMESTIC												
24	5	4	—	1	—	—	39	28	—	1	10	—
23	5	4	—	—	—	1	28	28	—	—	—	—
22	14	9	—	5	—	—	53	47	—	6	—	—
21	12	12	—	—	—	—	14	14	—	—	—	—
20	5	5	—	—	—	—	3	3	—	—	—	—
19	21	21	—	—	—	—	2	2	—	—	—	—
18	84	84	—	—	—	—	7	7	—	—	—	—
17	114	114	—	—	—	—	1	1	—	—	—	—
16	60	42	—	—	18	—	4	4	—	—	—	—
15	43	43	—	—	—	—	—	—	—	—	—	—
13	18	—	—	18	—	—	21	—	—	21	—	—
9	6	—	—	—	6	—	—	—	—	—	—	—
										Total trips:		830

ALGOMA HARBOR, WI
No Vessel Trips Reported

ALGONAC, MI
No Vessel Trips Reported

ASHLAND HARBOR, WI
(21 feet and less)

	Inbound						Outbound					
Grand Total	6	6	—	—	—	—	6	6	—	—	—	—
										Total trips:		12

AU SABLE HARBOR AND RIVER (OSCODA), MI
No Vessel Trips Reported

BAYFIELD HARBOR, WI
(8 feet and less)

	Inbound						Outbound					
Grand Total	6,167	6,167	—	—	—	—	6,167	6,167	—	—	—	—
										Total trips:		12,334

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

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
DETOUR, MI AND VICINITY (24 feet and less)												
				Inbound						Outbound		
Grand Total	12,020	12,020	---	---	---	---	12,019	12,019	---	---	---	---
										Total trips:		24,039
DETROIT HARBOR, WI (8 feet and less)												
				Inbound						Outbound		
Grand Total	4,056	4,056	---	---	---	---	4,056	4,056	---	---	---	---
										Total trips:		8,112
EAGLE HARBOR, MI No Vessel Trips Reported												
FRANKFORT HARBOR, MI (18 feet and less)												
				Inbound						Outbound		
Grand Total	74	---	---	45	2	27	61	---	---	32	2	27
										Total trips:		135
GLADSTONE HARBOR, MI (23 feet and less)												
				Inbound						Outbound		
Grand Total	21	10	---	5	---	6	21	12	---	5	---	4
										Total trips:		42
GRAND MARAIS HARBOR (HARBOR OF REFUGE), MI No Vessel Trips Reported												
GRAND MARAIS HARBOR, MN No Vessel Trips Reported												
GRAND TRAVERSE BAY HARBOR, MI (8 feet and less)												
				Inbound						Outbound		
Grand Total	344	344	---	---	---	---	344	344	---	---	---	---
										Total trips:		688
HARBOR BEACH, MI (HARBOR OF REFUGE, LAKE HURON) (26 feet and less)												
				Inbound						Outbound		
Grand Total	5	5	---	---	---	---	5	5	---	---	---	---
										Total trips:		10
HARRISVILLE HARBOR, MI (HARBOR OF REFUGE, LAKE HURON) No Vessel Trips Reported												
KENOSHA HARBOR, WI No Vessel Trips Reported												
KEWAUNEE HARBOR, WI No Vessel Trips Reported												
KEWEENAW WATERWAY, MI (25 feet and less)												
				Upbound						Downbound		
Grand Total	88	65	---	9	12	2	89	65	---	10	12	2
										Total trips:		177

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
KNIFE RIVER HARBOR, MN No Vessel Trips Reported												
LA POINTE HARBOR, WI (8 feet and less)												
				Inbound						Outbound		
Grand Total	5,777	5,777	---	---	---	---	5,777	5,777	---	---	---	---
										Total trips:	---	11,554
LAC LA BELLE HARBOR, MI No Vessel Trips Reported												
LELAND HARBOR, MI (5 feet and less)												
				Inbound						Outbound		
Grand Total	206	206	---	---	---	---	206	206	---	---	---	---
										Total trips:	---	412
LIME ISLAND, MI No Vessel Trips Reported												
LUTSEN HARBOR, MN No Vessel Trips Reported												
MACKINAC HARBOR, MI (18 feet and less)												
				Inbound						Outbound		
Grand Total	21,988	21,988	---	---	---	---	21,987	21,987	---	---	---	---
										Total trips:	---	43,975
MACKINAW CITY HARBOR, MI (24 feet and less)												
				Inbound						Outbound		
Grand Total	9,940	9,939	---	1	---	---	9,942	9,940	---	2	---	---
										Total trips:	---	19,882
MANISTIQUE HARBOR, MI (7 feet and less)												
				Inbound						Outbound		
Grand Total	18	---	---	9	---	9	20	---	---	10	---	10
										Total trips:	---	38
NEW BUFFALO HARBOR, MI No Vessel Trips Reported												
OCONTO HARBOR, WI No Vessel Trips Reported												
ONTONAGON HARBOR, MI (21 feet and less)												
				Inbound						Outbound		
Grand Total	9	7	---	1	1	---	9	7	---	1	1	---
										Total trips:	---	18
PENSAUKEE HARBOR, WI No Vessel Trips Reported												

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
PENTWATER HARBOR, MI (10 feet and less)												
				Inbound						Outbound		
Grand Total	4	—	—	2	2	—	4	—	—	2	2	—
										Total trips:		8
PORT SANILAC HARBOR, MI No Vessel Trips Reported												
PORT WING HARBOR, WI No Vessel Trips Reported												
PUT-IN-BAY HARBOR, OH (10 feet and less)												
				Inbound						Outbound		
Grand Total	7,293	7,197	96	—	—	—	7,291	7,195	96	—	—	—
										Total trips:		14,584
RACINE HARBOR, WI (6 feet and less)												
				Inbound						Outbound		
Grand Total	17	—	—	9	8	—	22	—	—	11	11	—
										Total trips:		39
ROGERS CITY, MI No Vessel Trips Reported												
SAUGATUCK HARBOR AND KALAMAZOO RIVER, MI (13 feet and less)												
				Upbound						Downbound		
Grand Total	683	682	—	1	—	—	683	682	—	1	—	—
										Total trips:		1,366
SAULT STE. MARIE, MI (26 feet and less)												
				Inbound						Outbound		
Grand Total	21,248	21,239	—	6	3	—	21,252	21,243	—	7	2	—
										Total trips:		42,500
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	435	415	—	10	—	10	433	415	—	9	—	9
										Total trips:		868
STURGEON BAY AND LAKE MICHIGAN SHIP CANAL, WI (26 feet and less)												
				Upbound						Downbound		
Grand Total	10	2	—	7	1	—	77	37	—	26	11	3
										Total trips:		87

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
TRENTON, MI (26 feet and less)												
				Inbound						Outbound		
Grand Total	4	4	—	—	—	—	4	4	—	—	—	—
										Total trips:		8
TWO RIVERS HARBOR, WI (21 feet and less)												
				Inbound						Outbound		
Grand Total	—	—	—	—	—	—	1	—	—	1	—	—
										Total trips:		1
WARROAD HARBOR, MN No Vessel Trips Reported												
WHITE LAKE HARBOR, MI (9 feet and less)												
				Inbound						Outbound		
Grand Total	26	—	—	13	13	—	26	—	—	13	13	—
										Total trips:		52
WHITEFISH POINT HARBOR, MI No Vessel Trips Reported												
WYANDOTTE, MI (22 feet and less)												
				Inbound						Outbound		
Grand Total	66	66	—	—	—	—	67	67	—	—	—	—
										Total trips:		133
ALABASTER, MI (25 feet and less)												
				Inbound						Outbound		
Grand Total	48	48	—	—	—	—	50	50	—	—	—	—
										Total trips:		98
MARBLEHEAD, OH (26 feet and less)												
				Inbound						Outbound		
Grand Total	12,839	12,803	—	14	22	—	12,857	12,812	—	26	19	—
										Total trips:		25,696
PORT DOLOMITE, MI (28 feet and less)												
				Inbound						Outbound		
Grand Total	258	212	—	21	25	—	264	214	—	23	27	—
										Total trips:		522
PORT GYPSUM, MI (22 feet and less)												
				Inbound						Outbound		
Grand Total	33	33	—	—	—	—	33	33	—	—	—	—
										Total trips:		66
PORT INLAND, MI (28 feet and less)												
				Inbound						Outbound		
Grand Total	248	243	—	3	2	—	250	245	—	3	2	—
										Total trips:		498

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
SILVER BAY, MN (30 feet and less)												
	Inbound						Outbound					
Grand Total	177	159	---	9	9	---	180	162	---	9	9	---
											Total trips:	357

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
TOLEDO HARBOR, OH												
	Inbound						Outbound					
Grand Total	1,101	854	37	119	16	75	1,100	856	31	113	22	78
FOREIGN												
Total	336	307	12	—	10	7	344	304	13	—	16	11
30	—	—	—	—	—	—	4	4	—	—	—	—
29	—	—	—	—	—	—	5	5	—	—	—	—
28	—	—	—	—	—	—	19	19	—	—	—	—
27	24	24	—	—	—	—	77	77	—	—	—	—
26	16	15	1	—	—	—	20	20	—	—	—	—
25	32	32	—	—	—	—	62	62	—	—	—	—
24	76	76	—	—	—	—	44	44	—	—	—	—
23	69	69	—	—	—	—	18	17	—	—	1	—
22	31	30	—	—	1	—	12	11	1	—	—	—
21	11	11	—	—	—	—	10	10	—	—	—	—
20	26	25	—	—	1	—	15	10	4	—	1	—
19	12	12	—	—	—	—	15	10	4	—	—	1
18	7	6	—	—	—	1	8	7	—	—	—	1
17	2	—	1	—	—	1	4	1	—	—	1	2
16	16	2	7	—	5	2	10	4	3	—	1	2
15	3	—	2	—	1	—	1	—	—	—	—	1
14	1	1	—	—	—	—	—	—	—	—	—	—
13	2	1	1	—	—	—	—	—	1	—	—	—
≤ 12	8	3	—	—	2	3	19	3	—	—	12	4
DOMESTIC												
Total	765	547	25	119	6	68	756	552	18	113	6	67
29	5	5	—	—	—	—	1	1	—	—	—	—
28	4	4	—	—	—	—	2	2	—	—	—	—
27	24	24	—	—	—	—	13	13	—	—	—	—
26	109	109	—	—	—	—	31	31	—	—	—	—
25	3	3	—	—	—	—	4	4	—	—	—	—
24	4	4	—	—	—	—	12	12	—	—	—	—
23	1	1	—	—	—	—	20	19	—	—	1	—
22	9	9	—	—	—	—	42	38	3	—	—	—
21	23	22	—	—	1	—	36	30	6	—	—	—
20	13	13	—	—	—	—	29	29	—	—	—	—
19	13	12	—	—	—	1	29	25	4	—	—	—
18	60	46	—	12	—	2	64	51	—	11	—	2
17	36	31	—	—	1	4	55	55	—	—	—	—
16	22	16	—	—	2	4	3	3	—	—	—	—
15	32	19	—	—	—	13	11	9	1	—	—	1
14	12	—	—	12	—	—	26	1	—	18	—	7
13	21	—	—	20	—	1	35	—	—	16	—	17
≤ 12	374	229	25	75	2	43	343	229	4	68	2	40
										Total trips:		2,201
KELLEYS ISLAND, OH												
	Inbound						Outbound					
Grand Total	12,824	12,657	—	58	109	—	12,876	12,657	—	106	113	—
DOMESTIC												
Total	12,824	12,657	—	58	109	—	12,876	12,657	—	106	113	—
20	—	—	—	—	—	—	27	—	—	—	27	—
19	—	—	—	—	—	—	40	—	—	—	40	—
18	—	—	—	—	—	—	46	—	—	—	46	—
13	10	—	—	10	—	—	55	—	—	55	—	—
10	48	—	—	48	—	—	51	—	—	51	—	—
8	58	58	—	—	—	—	58	58	—	—	—	—
7	11,670	11,670	—	—	—	—	11,340	11,340	—	—	—	—
6	1,038	929	—	—	109	—	1,259	1,259	—	—	—	—
										Total trips:		25,700

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
SANDUSKY HARBOR, OH												
	Inbound						Outbound					
Grand Total	3,206	3,204	—	1	1	—	3,107	3,105	—	1	1	—
FOREIGN												
Total	141	141	—	—	—	—	141	141	—	—	—	—
29	—	—	—	—	—	—	5	5	—	—	—	—
28	—	—	—	—	—	—	6	6	—	—	—	—
27	1	1	—	—	—	—	67	67	—	—	—	—
26	—	—	—	—	—	—	2	2	—	—	—	—
25	11	11	—	—	—	—	3	3	—	—	—	—
24	22	22	—	—	—	—	2	2	—	—	—	—
23	43	43	—	—	—	—	4	4	—	—	—	—
22	11	11	—	—	—	—	—	—	—	—	—	—
21	1	1	—	—	—	—	—	—	—	—	—	—
20	2	2	—	—	—	—	—	—	—	—	—	—
≤ 12	50	50	—	—	—	—	52	52	—	—	—	—
DOMESTIC												
Total	3,065	3,063	—	1	1	—	2,966	2,964	—	1	1	—
27	—	—	—	—	—	—	3	3	—	—	—	—
26	—	—	—	—	—	—	6	6	—	—	—	—
24	—	—	—	—	—	—	2	2	—	—	—	—
23	1	1	—	—	—	—	28	27	—	—	1	—
22	5	5	—	—	—	—	27	27	—	—	—	—
21	6	6	—	—	—	—	14	14	—	—	—	—
20	3	3	—	—	—	—	10	10	—	—	—	—
19	9	9	—	—	—	—	3	3	—	—	—	—
18	42	42	—	—	—	—	2	2	—	—	—	—
17	9	9	—	—	—	—	1	1	—	—	—	—
16	14	13	—	—	1	—	1	1	—	—	—	—
15	12	12	—	—	—	—	6	6	—	—	—	—
13	1	—	—	1	—	—	1	—	—	—	—	—
≤ 12	2,963	2,963	—	—	—	—	2,862	2,862	—	—	—	—
										Total trips:	6,313	

HURON HARBOR, OH												
	Inbound						Outbound					
Grand Total	109	46	—	53	10	—	106	46	—	29	31	—
FOREIGN												
Total	14	13	—	1	—	—	5	4	—	—	1	—
27	2	2	—	—	—	—	1	1	—	—	—	—
26	1	1	—	—	—	—	—	—	—	—	—	—
25	1	1	—	—	—	—	—	—	—	—	—	—
24	4	4	—	—	—	—	—	—	—	—	—	—
23	2	2	—	—	—	—	1	1	—	—	—	—
22	2	1	—	1	—	—	2	2	—	—	—	—
21	1	1	—	—	—	—	—	—	—	—	—	—
15	1	1	—	—	—	—	1	—	—	—	1	—
DOMESTIC												
Total	95	33	—	52	10	—	101	42	—	29	30	—
28	1	1	—	—	—	—	—	—	—	—	—	—
27	16	16	—	—	—	—	—	—	—	—	—	—
26	11	11	—	—	—	—	—	—	—	—	—	—
25	4	3	—	—	1	—	—	—	—	—	—	—
24	2	1	—	1	—	—	1	—	—	1	—	—
23	—	—	—	—	—	—	1	—	—	—	1	—
22	—	—	—	—	—	—	5	5	—	—	—	—
21	1	1	—	—	—	—	4	4	—	—	—	—
20	—	—	—	—	—	—	3	3	—	—	—	—
19	—	—	—	—	—	—	4	4	—	—	—	—
18	—	—	—	—	—	—	10	10	—	—	—	—
17	—	—	—	—	—	—	11	11	—	—	—	—
16	—	—	—	—	—	—	1	1	—	—	—	—
15	—	—	—	—	—	—	3	3	—	—	—	—
≤ 12	60	—	—	51	9	—	58	1	—	28	29	—
										Total trips:	215	

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

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

LORAIN HARBOR, OH

	Inbound						Outbound					
Grand Total	740	595	—	71	74	—	832	688	—	70	74	—

FOREIGN

Total	41	36	—	2	3	—	41	35	—	1	5	—
29	1	1	—	—	—	—	—	—	—	—	—	—
28	3	3	—	—	—	—	2	2	—	—	—	—
27	15	15	—	—	—	—	1	1	—	—	—	—
26	3	3	—	—	—	—	1	1	—	—	—	—
25	3	3	—	—	—	—	4	4	—	—	—	—
24	1	1	—	—	—	—	8	8	—	—	—	—
23	4	3	—	—	—	1	3	3	—	—	—	—
22	7	6	—	—	—	1	4	4	—	—	—	—
21	1	1	—	—	—	—	2	2	—	—	—	—
20	—	—	—	—	—	—	6	6	—	—	—	—
19	2	—	—	1	1	—	3	2	—	—	1	—
18	1	—	—	1	—	—	1	—	1	—	—	—
15	—	—	—	—	—	—	4	2	—	—	2	—
14	—	—	—	—	—	—	1	—	—	—	1	—
≤ 12	—	—	—	—	—	—	1	—	—	—	1	—

DOMESTIC

Total	699	559	—	69	71	—	791	653	—	69	69	—
30	1	1	—	—	—	—	—	—	—	—	—	—
29	33	33	—	—	—	—	—	—	—	—	—	—
28	46	46	—	—	—	—	1	—	—	—	—	—
27	90	83	—	—	7	—	38	33	—	—	5	—
26	32	30	—	—	2	—	76	75	—	—	1	—
25	7	7	—	—	—	—	20	20	—	—	—	—
24	4	4	—	—	—	—	54	53	—	—	1	—
23	3	3	—	—	—	—	175	161	—	—	14	—
22	26	13	—	13	—	—	45	33	—	12	—	—
21	10	10	—	—	—	—	49	49	—	—	—	—
20	1	1	—	—	—	—	17	17	—	—	—	—
19	3	3	—	—	—	—	11	11	—	—	—	—
18	3	3	—	—	—	—	28	28	—	—	—	—
17	82	82	—	—	—	—	14	14	—	—	—	—
16	189	174	—	—	15	—	3	3	—	—	—	—
15	29	29	—	—	—	—	19	19	—	—	—	—
13	15	—	—	15	—	—	15	—	—	15	—	—
≤ 12	125	37	—	41	47	—	226	137	—	42	47	—

Total trips: 1,572

CLEVELAND HARBOR, OH

	Inbound						Outbound					
Grand Total	2,198	1,553	11	310	188	136	2,119	1,540	10	255	188	126

FOREIGN

Total	306	234	3	—	15	54	303	231	4	—	19	49
29	2	2	—	—	—	—	6	6	—	—	—	—
27	44	44	—	—	—	—	5	5	—	—	—	—
26	58	57	—	—	1	—	9	9	—	—	—	—
25	35	35	—	—	—	—	24	24	—	—	—	—
24	29	25	—	—	4	—	9	9	—	—	—	—
23	35	30	—	—	2	3	57	54	3	—	—	—
22	25	22	3	—	—	—	10	10	—	—	—	—
21	6	5	—	—	—	1	40	37	—	—	2	1
20	12	8	—	—	—	4	14	13	—	—	—	1
19	6	2	—	—	2	2	58	57	—	—	—	1
18	1	—	—	—	—	1	3	2	—	—	—	1
17	1	—	—	—	1	—	2	2	—	—	—	—
16	4	—	—	—	1	3	16	2	—	—	6	8
15	32	3	—	—	1	28	3	2	—	—	1	2
14	7	—	—	—	3	4	5	—	1	—	—	4
13	2	1	—	—	—	1	—	—	—	—	10	31
≤ 12	7	—	—	—	—	7	42	1	—	—	—	—

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
CLEVELAND HARBOR, OH - continued												
	Inbound						Outbound					
DOMESTIC												
Total	1,892	1,319	8	310	173	82	1,816	1,309	6	255	169	77
29	24	24	—	—	—	—	—	—	—	—	—	—
28	24	24	—	—	—	—	—	—	—	—	—	—
27	56	56	—	—	—	—	1	1	—	—	—	—
26	116	116	—	—	—	—	7	7	—	—	—	—
25	39	39	—	—	—	—	1	1	—	—	—	—
24	130	121	—	—	9	—	4	1	—	—	3	—
23	169	149	—	—	20	—	12	9	—	—	3	—
22	40	40	—	—	—	—	15	15	—	—	—	—
21	17	10	—	—	7	—	13	12	—	—	1	—
20	40	11	—	—	29	—	13	13	—	—	—	—
19	68	5	8	2	47	6	33	31	—	1	1	—
18	103	8	—	22	56	17	77	53	—	24	—	—
17	24	22	—	—	—	2	131	131	—	—	—	—
16	8	3	—	—	3	2	234	210	—	—	24	—
15	17	8	—	3	1	5	143	140	—	3	—	—
14	22	—	—	9	—	13	10	2	—	7	—	1
13	133	—	—	114	1	18	58	—	—	51	7	—
≤ 12	862	683	—	160	—	19	1,064	683	6	169	130	76
										Total trips:		4,317

FAIRPORT HARBOR, OH												
	Inbound						Outbound					
Grand Total	587	554	—	16	17	—	581	551	—	15	15	—
FOREIGN												
Total	27	27	—	—	—	—	26	26	—	—	—	—
27	1	1	—	—	—	—	12	12	—	—	—	—
26	1	1	—	—	—	—	6	6	—	—	—	—
25	1	1	—	—	—	—	—	—	—	—	—	—
24	9	9	—	—	—	—	—	—	—	—	—	—
23	11	11	—	—	—	—	2	2	—	—	—	—
22	3	3	—	—	—	—	3	3	—	—	—	—
20	1	1	—	—	—	—	1	1	—	—	—	—
19	—	—	—	—	—	—	2	2	—	—	—	—
DOMESTIC												
Total	560	527	—	16	17	—	555	525	—	15	15	—
28	1	1	—	—	—	—	—	—	—	—	—	—
27	1	1	—	—	—	—	2	2	—	—	—	—
26	20	20	—	—	—	—	1	1	—	—	—	—
25	21	6	—	—	15	—	12	12	—	—	—	—
24	43	42	—	—	1	—	11	11	—	—	—	—
23	27	27	—	—	—	—	6	6	—	—	—	—
22	26	21	—	5	—	—	7	3	—	4	—	—
21	5	5	—	—	—	—	5	5	—	—	—	—
20	2	2	—	—	—	—	—	—	—	—	—	—
19	2	2	—	—	—	—	5	5	—	—	—	—
18	3	3	—	—	—	—	6	6	—	—	—	—
17	3	2	—	—	1	—	23	23	—	—	—	—
16	3	3	—	—	—	—	22	12	—	—	10	—
15	14	14	—	—	—	—	61	61	—	—	—	—
14	—	—	—	—	—	—	1	1	—	—	—	—
13	11	—	—	11	—	—	11	—	—	11	—	—
≤ 12	378	378	—	—	—	—	382	377	—	—	5	—
										Total trips:		1,168

ASHTABULA HARBOR, OH												
	Inbound						Outbound					
Grand Total	431	429	—	1	1	—	426	424	—	1	1	—
FOREIGN												
Total	225	225	—	—	—	—	214	214	—	—	—	—

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

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

ASHTABULA HARBOR, OH - continued

	Inbound						Outbound					
FOREIGN												
30	1	1	—	—	—	—	22	22	—	—	—	—
29	—	—	—	—	—	—	57	57	—	—	—	—
28	1	1	—	—	—	—	32	32	—	—	—	—
27	25	25	—	—	—	—	59	59	—	—	—	—
26	11	11	—	—	—	—	7	7	—	—	—	—
25	19	19	—	—	—	—	7	7	—	—	—	—
24	76	76	—	—	—	—	10	10	—	—	—	—
23	69	69	—	—	—	—	7	7	—	—	—	—
22	16	16	—	—	—	—	1	1	—	—	—	—
21	3	3	—	—	—	—	4	4	—	—	—	—
20	3	3	—	—	—	—	5	5	—	—	—	—
19	—	—	—	—	—	—	1	1	—	—	—	—
18	—	—	—	—	—	—	2	2	—	—	—	—
15	1	1	—	—	—	—	—	—	—	—	—	—
DOMESTIC												
Total	206	204	—	1	1	—	212	210	—	1	1	—
30	7	7	—	—	—	—	—	—	—	—	—	—
29	15	15	—	—	—	—	—	—	—	—	—	—
28	33	33	—	—	—	—	16	16	—	—	—	—
27	27	27	—	—	—	—	21	20	—	—	1	—
26	30	30	—	—	—	—	14	14	—	—	—	—
25	6	6	—	—	—	—	9	9	—	—	—	—
24	—	—	—	—	—	—	4	4	—	—	—	—
23	5	5	—	—	—	—	19	19	—	—	—	—
22	6	5	—	—	—	1	13	12	—	—	1	—
21	17	17	—	—	—	—	25	25	—	—	—	—
20	1	1	—	—	—	—	7	7	—	—	—	—
19	3	3	—	—	—	—	10	10	—	—	—	—
18	21	21	—	—	—	—	33	33	—	—	—	—
17	17	17	—	—	—	—	23	23	—	—	—	—
16	6	6	—	—	—	—	8	8	—	—	—	—
15	11	11	—	—	—	—	10	10	—	—	—	—
≤ 12	1	—	—	—	—	1	—	—	—	—	—	—
											Total trips:	857

CONNEAUT HARBOR, OH

	Inbound						Outbound					
Grand Total	217	203	—	7	7	—	224	210	—	8	6	—
FOREIGN												
Total	74	74	—	—	—	—	78	78	—	—	—	—
30	—	—	—	—	—	—	7	7	—	—	—	—
29	—	—	—	—	—	—	29	29	—	—	—	—
28	—	—	—	—	—	—	5	5	—	—	—	—
27	4	4	—	—	—	—	12	12	—	—	—	—
26	—	—	—	—	—	—	3	3	—	—	—	—
25	6	6	—	—	—	—	—	—	—	—	—	—
24	23	23	—	—	—	—	—	—	—	—	—	—
23	18	18	—	—	—	—	2	2	—	—	—	—
22	4	4	—	—	—	—	17	17	—	—	—	—
21	1	1	—	—	—	—	1	1	—	—	—	—
20	1	1	—	—	—	—	—	—	—	—	—	—
18	—	—	—	—	—	—	1	1	—	—	—	—
15	13	13	—	—	—	—	1	1	—	—	—	—
14	4	4	—	—	—	—	—	—	—	—	—	—
DOMESTIC												
Total	143	129	—	7	7	—	146	132	—	8	6	—
29	13	12	—	—	—	—	—	—	—	—	—	—
28	11	5	—	—	—	—	—	—	—	—	—	—
27	36	34	—	—	—	—	2	—	—	—	—	—
26	12	12	—	—	—	—	12	12	—	—	—	—
25	2	2	—	—	—	—	2	2	—	—	—	—
24	5	—	—	—	—	5	26	21	—	—	—	—
23	3	3	—	—	—	—	13	6	—	—	—	—
22	11	11	—	—	—	—	18	18	—	—	—	—

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
CONNEAUT HARBOR, OH - continued												
Inbound						Outbound						
DOMESTIC												
21	3	3	—	—	—	—	16	16	—	—	—	—
20	1	1	—	—	—	—	4	4	—	—	—	—
19	14	14	—	—	—	—	35	35	—	—	—	—
18	19	19	—	—	—	—	10	10	—	—	—	—
17	9	9	—	—	—	—	3	3	—	—	—	—
16	1	1	—	—	—	—	—	—	—	—	—	—
15	3	3	—	—	—	—	5	5	—	—	—	—
Total trips:											441	
ERIE HARBOR, PA												
Inbound						Outbound						
Grand Total	955	945	—	6	4	—	954	944	—	6	4	—
FOREIGN												
Total	14	11	—	2	1	—	15	12	—	2	1	—
27	2	2	—	—	—	—	1	1	—	—	—	—
26	4	4	—	—	—	—	3	3	—	—	—	—
24	3	3	—	—	—	—	2	2	—	—	—	—
23	—	—	—	—	—	—	1	1	—	—	—	—
22	—	—	—	—	—	—	1	1	—	—	—	—
20	—	—	—	—	—	—	1	1	—	—	—	—
18	—	—	—	—	—	—	1	1	—	—	—	—
15	1	1	—	—	—	—	—	—	—	—	—	—
≤ 12	4	1	—	2	1	—	5	2	—	2	1	—
DOMESTIC												
Total	941	934	—	4	3	—	939	932	—	4	3	—
30	1	1	—	—	—	—	—	—	—	—	—	—
28	1	1	—	—	—	—	—	—	—	—	—	—
27	5	5	—	—	—	—	1	1	—	—	—	—
26	18	18	—	—	—	—	—	—	—	—	—	—
25	8	8	—	—	—	—	—	—	—	—	—	—
24	3	3	—	—	—	—	—	—	—	—	—	—
23	2	2	—	—	—	—	—	—	—	—	—	—
22	1	1	—	—	—	—	—	—	—	—	—	—
21	—	—	—	—	—	—	2	2	—	—	—	—
19	—	—	—	—	—	—	2	2	—	—	—	—
18	—	—	—	—	—	—	9	9	—	—	—	—
17	—	—	—	—	—	—	9	9	—	—	—	—
16	—	—	—	—	—	—	5	5	—	—	—	—
15	1	1	—	—	—	—	10	10	—	—	—	—
14	291	291	—	—	—	—	—	—	—	—	—	—
13	39	39	—	—	—	—	—	—	—	—	—	—
≤ 12	571	564	—	4	3	—	901	894	—	4	3	—
Total trips:											1,909	
DUNKIRK HARBOR, NY												
Inbound						Outbound						
Grand Total	34	34	—	—	—	—	34	34	—	—	—	—
DOMESTIC												
Total	34	34	—	—	—	—	34	34	—	—	—	—
19	30	30	—	—	—	—	21	21	—	—	—	—
18	4	4	—	—	—	—	5	5	—	—	—	—
17	—	—	—	—	—	—	8	8	—	—	—	—
Total trips:											68	

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

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

BUFFALO HARBOR, NY

				Upbound						Downbound		
Grand Total	589	514	12	34	6	23	574	511	11	26	5	21

FOREIGN

Total	106	48	9	25	5	19	89	40	10	18	4	17
27	1	1	—	—	—	—	6	6	—	—	—	—
26	—	—	—	—	—	—	4	4	—	—	—	—
25	1	1	—	—	—	—	4	4	—	—	—	—
24	4	4	—	—	—	—	3	3	—	—	—	—
23	1	1	—	—	—	—	9	9	—	—	—	—
22	8	8	—	—	—	—	5	5	—	—	—	—
21	3	3	—	—	—	—	3	3	—	—	—	—
20	4	4	—	—	—	—	3	3	—	—	—	—
19	4	4	—	—	—	—	—	—	—	—	—	—
18	21	21	—	—	—	—	1	—	1	—	—	—
17	1	1	—	—	—	—	9	—	8	—	—	1
16	24	—	—	24	—	—	41	3	1	17	4	16
15	5	—	5	—	—	—	—	—	—	—	—	—
14	4	—	4	—	—	—	—	—	—	—	—	—
≤ 12	25	—	—	1	5	19	1	—	—	1	—	—

DOMESTIC

Total	483	466	3	9	1	4	485	471	1	8	1	4
27	—	—	—	—	—	—	5	5	—	—	—	—
26	—	—	—	—	—	—	1	1	—	—	—	—
25	4	4	—	—	—	—	19	19	—	—	—	—
24	3	3	—	—	—	—	11	11	—	—	—	—
23	—	—	—	—	—	—	1	1	—	—	—	—
22	4	4	—	—	—	—	9	8	1	—	—	—
21	2	2	—	—	—	—	2	2	—	—	—	—
20	—	—	—	—	—	—	2	2	—	—	—	—
19	15	14	—	1	—	—	5	4	—	1	—	—
18	6	6	—	—	—	—	—	—	—	—	—	—
17	12	12	—	—	—	—	—	—	—	—	—	—
16	1	1	—	—	—	—	1	—	—	—	1	—
15	4	3	—	—	1	—	1	1	—	—	—	—
14	4	—	—	—	—	4	—	—	—	—	—	—
≤ 12	428	417	3	8	—	—	428	417	—	7	—	4

Total trips: 1,163

NIAGARA RIVER, NY

				Upbound						Downbound		
Grand Total	7,774	7,703	4	34	2	31	7,786	7,709	6	35	2	34

FOREIGN

Total	19	—	4	8	2	5	21	6	2	6	2	5
19	1	—	1	—	—	—	1	—	1	—	—	—
18	—	—	—	—	—	—	1	—	—	—	—	—
17	—	—	—	—	—	—	1	—	—	—	1	—
16	7	—	2	5	—	—	13	1	—	6	1	5
15	1	—	1	—	—	—	—	—	—	—	—	—
13	1	—	—	1	—	—	—	—	—	—	—	—
≤ 12	9	—	—	2	2	5	5	5	—	—	—	—

DOMESTIC

Total	7,755	7,703	—	26	—	26	7,765	7,703	4	29	—	29
21	—	—	—	—	—	—	4	—	4	—	—	—
20	—	—	—	—	—	—	3	3	—	—	—	—
19	—	—	—	—	—	—	6	—	—	—	—	6
18	17	—	—	17	—	—	38	—	—	19	—	19
17	—	—	—	—	—	—	1	—	—	—	—	1
16	—	—	—	—	—	—	2	—	—	—	—	2
15	6	3	—	3	—	—	4	—	—	3	—	1
14	5	—	—	5	—	—	5	—	—	5	—	—
≤ 12	7,727	7,700	—	1	—	26	7,702	7,700	—	2	—	—

Total trips: 15,560

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

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

PORT OF BUFFALO, NY

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
	7,954	7,810	17	65	7	55	7,941	7,799	16	64	8	54

FOREIGN

Total	106	42	12	24	6	22	125	48	13	33	7	24
27	6	6	—	—	—	—	1	1	—	—	—	—
26	4	4	—	—	—	—	—	—	—	—	—	—
25	4	4	—	—	—	—	1	1	—	—	—	—
24	3	3	—	—	—	—	4	4	—	—	—	—
23	9	9	—	—	—	—	1	1	—	—	—	—
22	5	5	—	—	—	—	8	8	—	—	—	—
21	3	3	—	—	—	—	3	3	—	—	—	—
20	3	3	—	—	—	—	4	4	—	—	—	—
19	1	—	1	—	—	—	5	4	1	—	—	—
18	2	—	2	—	—	—	21	21	—	—	—	—
17	10	—	8	—	1	1	1	1	—	—	—	—
16	54	4	1	23	5	21	31	—	2	29	—	—
15	—	—	—	—	—	—	6	—	6	—	—	—
14	—	—	—	—	—	—	4	—	4	—	—	—
13	—	—	—	—	—	—	1	—	—	1	—	—
≤ 12	2	1	—	1	—	—	34	—	—	3	7	24

DOMESTIC

Total	7,848	7,768	5	41	1	33	7,816	7,751	3	31	1	30
27	5	5	—	—	—	—	—	—	—	—	—	—
26	1	1	—	—	—	—	—	—	—	—	—	—
25	21	21	—	—	—	—	2	2	—	—	—	—
24	12	12	—	—	—	—	2	2	—	—	—	—
23	1	1	—	—	—	—	—	—	—	—	—	—
22	10	9	—	—	—	—	3	3	—	—	—	—
21	6	2	4	—	—	—	2	2	—	—	—	—
20	5	5	—	—	—	—	—	—	—	—	—	—
19	12	5	—	1	—	6	14	13	—	1	—	—
18	38	—	—	19	—	19	23	6	—	17	—	—
17	2	1	—	—	—	—	11	11	—	—	—	—
16	3	—	—	—	1	2	1	1	—	—	—	—
15	5	1	—	3	—	1	10	6	—	3	1	—
14	5	—	—	5	—	—	9	—	—	5	—	4
≤ 12	7,722	7,705	—	13	—	4	7,739	7,705	3	5	—	26

Total trips: 15,895

OSWEGO HARBOR, NY

Grand Total	Upbound						Downbound					
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
	101	54	31	1	5	10	193	147	31	—	5	10

FOREIGN

Total	89	54	19	1	5	10	193	147	31	—	5	10
27	1	1	—	—	—	—	—	—	—	—	—	—
26	—	—	—	—	—	—	1	1	—	—	—	—
25	1	1	—	—	—	—	1	1	—	—	—	—
24	1	1	—	—	—	—	2	2	—	—	—	—
23	1	1	—	—	—	—	3	3	—	—	—	—
22	1	1	—	—	—	—	25	21	1	—	—	3
21	1	—	—	—	—	1	18	14	—	—	1	3
20	1	1	—	—	—	—	26	8	17	—	1	—
19	4	3	1	—	—	—	16	3	10	—	1	2
18	42	41	1	—	—	—	2	2	—	—	—	—
17	4	2	2	—	—	—	2	—	2	—	—	—
16	1	—	1	—	—	—	1	—	1	—	—	—
15	1	—	1	—	—	—	—	—	—	—	—	—
14	6	—	6	—	—	—	—	—	—	—	—	—
13	12	1	7	—	—	4	1	—	—	—	1	—
≤ 12	12	1	—	1	5	5	95	92	—	—	1	2

DOMESTIC

Total	12	—	12	—	—	—	—	—	—	—	—	—
≤ 12	12	—	12	—	—	—	—	—	—	—	—	—

Total trips: 294

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
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	6,997	6,997	—	—	—	—	6,993	6,993	—	—	—	—
										Total trips:	—	13,990
OGDENSBURG HARBOR, NY (22 feet and less)												
				Inbound						Outbound		
Grand Total	25	25	—	—	—	—	25	25	—	—	—	—
										Total trips:	—	50
PORT CLINTON HARBOR, OH (9 feet and less)												
				Inbound						Outbound		
Grand Total	2,152	2,152	—	—	—	—	2,153	2,153	—	—	—	—
										Total trips:	—	4,305
ROCHESTER (CHARLOTTE) HARBOR, NY (22 feet and less)												
				Inbound						Outbound		
Grand Total	135	119	—	8	8	—	133	117	—	8	8	—
										Total trips:	8	268
SACKETS HARBOR, NY (4 feet and less)												
				Inbound						Outbound		
Grand Total	10	10	—	—	—	—	16	16	—	—	—	—
										Total trips:	—	26
TONAWANDA HARBOR, NY (19 feet and less)												
				Inbound						Outbound		
Grand Total	7,610	7,579	6	12	4	9	7,002	7,002	—	—	—	—
										Total trips:	—	14,612
VERMILION HARBOR, OH (5 feet and less)												
				Inbound						Outbound		
Grand Total	2	—	—	1	1	—	2	—	—	1	1	—
										Total trips:	1	4
WADDINGTON HARBOR, NY No Vessel Trips Reported												

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

Draft	Self Propelled Vessels				Non-Self Propelled Vessels		Self Propelled Vessels				Non-Self Propelled Vessels	
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
ILLINOIS RIVER, IL												
	Upbound						Downbound					
Grand Total	40,689	14,933	—	5,550	16,724	3,482	43,874	14,933	—	6,505	18,812	3,624
DOMESTIC												
Total	40,689	14,933	—	5,550	16,724	3,482	43,874	14,933	—	6,505	18,812	3,624
12	9	—	—	—	4	5	21	—	—	—	16	5
11	83	—	—	12	43	28	140	—	—	8	99	33
10	6,501	6,213	—	57	141	90	6,537	6,213	—	64	230	30
9	6,845	833	—	1,649	2,972	1,391	8,977	833	—	1,358	6,223	563
8	6,375	—	—	2,115	3,443	817	10,225	—	—	3,168	6,516	541
7	8,203	6,547	—	1,019	441	196	8,307	6,547	—	1,132	553	75
6	1,961	1,340	—	419	149	53	1,999	1,340	—	479	79	101
5	575	—	—	265	276	34	307	—	—	284	16	7
4	94	—	—	2	50	42	85	—	—	1	23	61
3	97	—	—	5	35	57	217	—	—	4	31	182
2	9,485	—	—	7	8,724	754	6,780	—	—	7	4,855	1,918
1	461	—	—	—	446	15	279	—	—	—	171	108
										Total trips:		84,563
CALUMET-SAG CHANNEL, IL												
	Upbound						Downbound					
Grand Total	6,943	—	—	1,320	4,695	928	8,750	1,953	—	1,294	4,471	1,032
DOMESTIC												
Total	6,943	—	—	1,320	4,695	928	8,750	1,953	—	1,294	4,471	1,032
12	9	—	—	8	—	1	15	—	—	13	—	2
11	118	—	—	100	13	5	119	—	—	96	14	9
10	233	—	—	183	27	23	604	—	—	189	390	25
9	1,863	—	—	236	1,357	270	1,812	—	—	251	1,130	431
8	2,020	—	—	533	1,418	69	1,098	—	—	526	422	150
7	355	—	—	152	178	25	284	—	—	146	105	33
6	1,253	—	—	42	1,196	15	83	—	—	48	29	6
5	230	—	—	26	195	9	1,994	1,953	—	25	14	2
4	106	—	—	—	72	34	3	—	—	—	2	1
3	51	—	—	—	20	31	31	—	—	—	6	25
2	690	—	—	40	215	435	2,602	—	—	—	2,261	341
1	15	—	—	—	4	11	105	—	—	—	98	7
										Total trips:		15,693
CHICAGO SANITARY AND SHIP CANAL, IL												
	Upbound						Downbound					
Grand Total	15,809	1,955	—	3,206	8,084	2,564	13,737	2	—	3,328	7,887	2,520
DOMESTIC												
Total	15,809	1,955	—	3,206	8,084	2,564	13,737	2	—	3,328	7,887	2,520
≤ 12	15,809	1,955	—	3,206	8,084	2,564	13,737	2	—	3,328	7,887	2,520
										Total trips:		29,546
ILLINOIS WATERWAY, IL												
	Upbound						Downbound					
Grand Total	49,016	16,886	—	8,302	19,105	4,723	47,483	14,933	—	7,466	21,086	3,998
DOMESTIC												
Total	49,016	16,886	—	8,302	19,105	4,723	47,483	14,933	—	7,466	21,086	3,998
13	3	—	—	3	—	—	1	—	—	1	—	—
≤ 12	49,013	16,886	—	8,299	19,105	4,723	47,482	14,933	—	7,465	21,086	3,998
										Total trips:		96,499

INDEX

	Pages
A	
ALABASTER, MI	60, 119
ALGOMA HARBOR, WI	57, 115
ALGONAC, MI	57, 115
ALPENA HARBOR, MI	32, 104
ASHLAND HARBOR, WI	57, 115
ASHTABULA HARBOR, OH	68, 124
AU SABLE HARBOR AND RIVER (OSCODA), MI	57, 115
B	
BARCELONA HARBOR, NY	76, 129
BAYFIELD HARBOR, WI	57, 115
BEAVER BAY HARBOR, MN	57, 115
BIG BAY HARBOR, MI	57, 115
BLACK RIVER HARBOR, MI	57, 115
BUFFALO HARBOR, NY	71, 127
BUFFALO, NY DISTRICT	73, 128
BUFFALO, NY, PORT OF	73, 128
BUFFALO HARBOR, NY	71, 127
NIAGARA RIVER, NY	72, 127
BUFFINGTON HARBOR, IN	16, 93
BURNS WATERWAY HARBOR, IN	14, 92
C	
CALCITE, MI	55, 113
CALUMET HARBOR AND RIVER, IL AND IN	6, 90
CALUMET-SAG CHANNEL, IL	79, 130
CAPE VINCENT, NY	76, 129
CASEVILLE, MI	57, 115
CEDAR RIVER HARBOR, MI	57, 115
CHANNELS IN LAKE ST. CLAIR	41, 109
CHARLEVOIX HARBOR, MI	25, 98
CHEBOYGAN HARBOR, MI	29, 102
CHICAGO HARBOR, IL	16, 92
CHICAGO RIVER (MAIN AND NORTH BRANCH), IL	3, 89
CHICAGO RIVER, (SOUTH BRANCH), IL	4, 89
CHICAGO SANITARY AND SHIP CANAL, IL	81, 130
CHICAGO, IL DISTRICT	10, 91
CHICAGO, IL, PORT OF	10, 91
CALUMET HARBOR AND RIVER, IL AND IN	6, 90
CALUMET-SAG CHANNEL, IL	79, 130
CHICAGO HARBOR, IL	16, 92
CHICAGO RIVER (MAIN AND NORTH BRANCH), IL	3, 89
CHICAGO RIVER, (SOUTH BRANCH), IL	4, 89
CHICAGO SANITARY AND SHIP CANAL, IL	81, 130
LAKE CALUMET, IL	5, 89
CHIPPEWA HARBOR (ISLE ROYALE), MI	57, 115
CLEVELAND HARBOR, OH	66, 123
COMMODITY CLASSIFICATION LIST	viii
CONNEAUT HARBOR, OH	69, 125
CORNUCOPIA HARBOR, WI	57, 115
D	
DETOUR, MI AND VICINITY	57, 116
DETROIT HARBOR, MI	48, 116
DETROIT HARBOR, WI	57, 116
DETROIT RIVER, MI	44, 109
DETROIT, MI DISTRICT	52, 112
DETROIT, MI, PORT OF	52, 112
DETROIT HARBOR, MI	57, 116
ECORSE, MI	51, 112
ROUGE RIVER, MI	50, 111
TRENTON, MI	60, 119

	Pages
D	
WYANDOTTE, MI	60, 119
DRUMMOND ISLAND, MI	20, 96
DULUTH-SUPERIOR HARBOR, MN AND WI	17, 94
DUNKIRK HARBOR, NY	70, 126
E	
EAGLE HARBOR, MI	57, 116
ECORSE, MI	51, 112
ERIE HARBOR, PA	70, 126
ESCANABA, MI	55, 114
F	
FAIRPORT HARBOR, OH	68, 124
FRANKFORT HARBOR, MI	57, 116
FREIGHT TONS CARRIED ON GREAT LAKES BY AREA	xi
FREIGHT TONS CARRIED ON GREAT LAKES BY TYPE OF TRAFFIC AND COMMODITY	xii
G	
GARY HARBOR, IN	16, 93
GLADSTONE HARBOR, MI	57, 116
GRAND HAVEN HARBOR AND GRAND RIVER, MI	28, 101
GRAND MARAIS HARBOR (HARBOR OF REFUGE), MI	58, 116
GRAND MARAIS HARBOR, MN	58, 116
GRAND TRAVERSE BAY HARBOR, MI	58, 116
GRAYS REEF PASSAGE, MI	25, 98
GREAT SODUS BAY HARBOR, NY	76, 129
GREEN BAY HARBOR, WI	32, 104
H	
HARBOR BEACH, MI (HARBOR OF REFUGE, LAKE HURON)	58, 116
HARRISVILLE HARBOR, MI (HARBOR OF REFUGE, LAKE HURON)	58, 116
HOLLAND HARBOR, MI	28, 101
HURON HARBOR, OH	65, 122
I	
ILLINOIS RIVER, IL	77, 130
ILLINOIS WATERWAY, IL (CONSOLIDATED REPORT)	83, 130
CALUMET-SAG CHANNEL, IL	79, 130
CHICAGO RIVER, (SOUTH BRANCH), IL	4, 89
CHICAGO SANITARY AND SHIP CANAL, IL	81, 130
ILLINOIS RIVER, IL	77, 130
INDIANA HARBOR, IN	13, 91
INTRODUCTION	ii
K	
KELLEYS ISLAND, OH	63, 121
KENOSHA HARBOR, WI	58, 116
KEWAUNEE HARBOR, WI	58, 116
KEWEENAW WATERWAY, MI	58, 116
KNIFE RIVER HARBOR, MN	58, 117
L	
LA POINTE HARBOR, WI	58, 117
LAC LA BELLE HARBOR, MI	58, 117
LAKE CALUMET, IL	5, 89
LELAND HARBOR, MI	58, 117
LIME ISLAND, MI	58, 117
LORAIN HARBOR, OH	65, 123
LUDINGTON HARBOR, MI	27, 100
LUTSEN HARBOR, MN	58, 117
M	
MACKINAC HARBOR, MI	58, 117
MACKINAW CITY HARBOR, MI	58, 117
MANISTEE HARBOR, MI	26, 99
MANISTIQUE HARBOR, MI	58, 117
MANITOWOC HARBOR, WI	31, 103
MARBLEHEAD, OH	60, 119
MARINE CITY, MI	41, 108

	Pages
M	
MARQUETTE HARBOR, MI	20, 95
MARYSVILLE, MI	40, 107
MENOMINEE HARBOR AND RIVER, MI AND WI	33, 105
MICHIGAN CITY HARBOR, IN	16, 93
MILWAUKEE HARBOR, WI	30, 103
MONROE HARBOR, MI	54, 113
MUSKEGON HARBOR, MI	27, 100
N	
NEW BUFFALO HARBOR, MI	59, 117
NIAGARA FALLS, NY	76, 129
NIAGARA RIVER, NY	72, 127
O	
OCONTO HARBOR, WI	59, 117
OGDENSBURG HARBOR, NY	76, 129
ONTONAGON HARBOR, MI	59, 117
OSWEGO HARBOR, NY	75, 128
P	
PENSAUKEE HARBOR, WI	59, 117
PENTWATER HARBOR, MI	59, 118
PORT CLINTON HARBOR, OH	76, 129
PORT DOLOMITE, MI	60, 119
PORT GYPSUM, MI	60, 119
PORT HURON, MI	38, 107
PORT INLAND, MI	61, 119
PORT OF BUFFALO, NY	73, 128
PORT OF CHICAGO, IL	10, 91
PORT OF DETROIT, MI	52, 112
PORT SANILAC HARBOR, MI	59, 118
PORT WASHINGTON HARBOR, WI	31, 103
PORT WING HARBOR, WI	59, 118
PRESQUE ISLE HARBOR, MI	19, 95
PUT-IN-BAY HARBOR, OH	59, 118
R	
RACINE HARBOR, WI	59, 118
ROCHESTER (CHARLOTTE) HARBOR, NY	76, 129
ROGERS CITY, MI	59, 118
ROUGE RIVER, MI	50, 111
S	
SACKETS HARBOR, NY	76, 129
SAGINAW RIVER, MI	34, 105
SANDUSKY HARBOR, OH	64, 122
SAUGATUCK HARBOR AND KALAMAZOO RIVER, MI	59, 118
SAULT STE. MARIE, MI	59, 118
SEBEWAING, MI	59, 118
SHEBOYGAN HARBOR, WI	59, 118
SILVER BAY, MN	61, 120
SOUTH HAVEN HARBOR, MI	59, 118
ST. CLAIR RIVER, MI	34, 106
ST. CLAIR, MI	40, 108
ST. JAMES (BEAVER ISLAND), MI	59, 118
ST. JOSEPH HARBOR, MI	29, 102
ST. MARYS FALLS CANAL, MI AND SAULT STE. MARIE, ONTARIO SHIP CANAL, CN	23, 97
ST. MARYS RIVER, MI	21, 96
STONEPORT, MI	56, 114
STURGEON BAY AND LAKE MICHIGAN SHIP CANAL, WI	60, 118
SUMMARY OF GREAT LAKES TRAFFIC:	
FREIGHT TONS BY AREA	xi
FREIGHT TONS BY COMMODITY	xii
TON-MILES BY AREA	x
T	
TACONITE HARBOR, MN	19, 95

	Pages
T	
TERMINOLOGY	v
TOLEDO HARBOR, OH	62, 121
TONAWANDA HARBOR, NY	76, 129
TON-MILEAGE OF FREIGHT CARRIED ON GREAT LAKES	x
TRAVERSE CITY HARBOR, MI	26, 99
TRENTON, MI	60, 119
TWO HARBORS (AGATE BAY), MN	17, 94
TWO RIVERS HARBOR, WI	60, 119
V	
VERMILION HARBOR, OH	76, 129
W	
WADDINGTON HARBOR, NY	76, 129
WARROAD HARBOR, MN	60, 119
WAUKEGAN HARBOR, IL	3, 89
WHITE LAKE HARBOR, MI	60, 119
WHITEFISH POINT HARBOR, MI	60, 119
WYANDOTTE, MI	60, 119

ORDERING GUIDE FOR THE NAVIGATION DATA CENTER REPORTS

Waterborne Commerce, Vessel and Locks Statistics

<u>Title</u>	<u>Sales Price*</u>
Waterborne Commerce of the United States (WCUS)	
Part 1 WCUS, Waterways and Harbors on the Atlantic Coast	\$ 13.00
1st Class Postage	6.00
Manuscript Data on diskette	5.00
Part 2 WCUS, Waterways and Harbors on the Gulf Coast, Mississippi River System and Antilles	15.00
1st Class Postage	6.00
Manuscript Data on diskette	5.00
Part 3 WCUS, Waterways and Harbors of the Great Lakes	6.00
1st Class Postage	3.00
Manuscript Data on diskette	5.00
Part 4 WCUS, Waterways and Harbors on the Pacific Coast, Alaska and Hawaii .	9.00
1st Class Postage	5.00
Manuscript Data on diskette	5.00
Part 5 WCUS, National Summaries	4.00
1st Class Postage	3.00
Public Domain Database (Area to Area or State to State)	
Hardcopy	15.00
Diskette	5.00
Waterborne Transportation Lines of the United States (WTLUS)	
Volume 1 National Summaries	2.00
1st Class Postage	2.00
Volume 2 Vessel Company Summary	4.00
1st Class Postage	3.00
Vessel Company Information on diskette (decompressing utility included) .	5.00
Volume 3 Vessel Characteristics	20.00
1st Class Postage	6.00
Vessel Characteristics on diskette (decompressing utility included)	5.00

Complimentary Copies

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

* Effective with the calendar year 1994 publications.

Material may be ordered from Waterborne Commerce Statistics Center, U.S. Army Corps of Engineers, P.O. Box 61280, New Orleans, LA 70161-1280. Checks or money orders should be made out to FAO-B2. Point of contact is Ms. Peggy Galliano (504) 862-1424, FAX (504) 862-1423.
(01/99)

Ordering Guide for Port Series Reports

<u>NO.</u>		<u>Date of Publication</u>	<u>Sales Price</u>
1	Portland and Searsport, ME, and Portsmouth, NH	1985	\$ 7.00
3	Boston, MA	1994	14.00
4	Ports of Southern New England (Bridgeport, CT; New Haven, CT; Connecticut River; New London, CT; Providence, RI; Fall River and New Bedford, MA; Fairhaven, MA)	1994	17.00
5	New York, NY, and NJ, and Ports on Long Island, NY	1999	*
6	Albany and Ports on Hudson River, NY	1996	12.00
8	Philadelphia, PA; Camden, NJ; Wilmington, DE; and Ports on Delaware River	1998	21.00
10	Baltimore, MD	1991	8.00
11	Ports of Hampton Roads, and Ports on the James and York Rivers, VA	1993	26.00
12	Wilmington and Morehead City, NC	1997	17.00
13	Charleston and Georgetown, SC	1997	11.00
14	Savannah and Brunswick, GA	1990	7.50
15	Jacksonville and Fernandina Beach, FL	1997	11.00
16	Miami, Port Everglades, Palm Beach, and Port Canaveral, FL	1991	8.50
17	The Ports of Tampa and Port Manatee, FL	1996	15.00
18	Mobile, AL	1998	9.00
19	Panama City and Pensacola, FL; Pascagoula and Gulfport, MS; and Ports on the Apalachicola, Chattahoochee, and Flint Rivers	1998	21.00
20	New Orleans, LA	1990	10.00
20A	Mississippi River Ports Below and Above New Orleans, LA	1991	10.50
21	Baton Rouge and Lake Charles, LA	1990	11.00
22	Port Arthur, Beaumont, and Orange, TX	1988	8.00
23	Galveston and Texas City, TX	1996	15.00
24	Houston, TX	1999	*
25	Corpus Christi, TX	1993	10.00
26	Freeport, Point Comfort/Port Lavaca, Brownsville, and Ports along Gulf Intracoastal Waterway, TX	1991	10.00
27	San Diego, CA	1998	23.00
28	The Ports of Long Beach, Los Angeles and Port Hueneme, CA	1996	20.00
30	San Francisco, Redwood City, and Humboldt Bay, CA	1991	8.00
31	Oakland, Alameda, Richmond, and Ports on Carquinez Strait, CA	1991	8.00
32	Sacramento, Stockton, Pittsburg and Antioch, Ca	1998	19.00
33	Coos Bay, OR and Ports on Columbia-Snake River System	1986	11.00
34	Portland, Astoria, The Dalles, Boardman, and Umatilla, OR; Longview, Kalama, Vancouver, Pasco/ Kennewick, Wilma, and Clarkston, WA; and Lewiston, ID	1996	31.00
35	The Ports of Tacoma, Olympia and Grays Harbor, WA	1993	13.00
36	Seattle, WA	1993	19.00
37	Port Angeles, Port Townsend, Everett, Anacortes, and Bellingham, WA.	1998	10.00
38	Ports of Southeast Alaska (Metlakatla, Ketchikan, Hollis, Thorne Bay, Hydaburg, Craig, Klawock, Wrangell, Petersburg, Kake, Juneau, Angoon, Haines, Skagway, Sitka, Pelican, Gustavus, Hoonah, and Yakutat)	1995	20.00
39	Ports of Southwest and Western Alaska (NEW EDITION)	1994	20.00
41	Buffalo, Rochester, Oswego, and Ogdensburg, NY	1990	6.50
42	U.S. Ports on Lake Erie (Erie, PA; Conneaut, Ashtabula, Fairport Harbor, Lorain, Huron, and Sandusky, OH)	1990	8.50
43	Cleveland, OH	1989	7.00
44	Toledo, OH	1989	6.00
45	Detroit and Ports on the Saginaw River, MI	1996	22.00
46	Chicago, IL	1995	20.00
48	The Port of Milwaukee, WI and Ports on Lake Michigan	1995	23.00
49	Duluth, MN; Superior, WI; Taconite Harbor, Silver Bay, and Two Harbors, MN; and Ashland, WI.	1987	6.50
50	Ports of Hawaii (Honolulu, Kahului, Nawiliwili, Port Allen, Kuanakakai, Kaunapau, Hilo, and Kawaihae)	1987	7.00
60	Pittsburgh, PA, and Ports on the Ohio, Monogahela, and Allegheny Rivers, PA.	1992	12.00
61	Huntington, WV, Ports on Ohio River (Miles 40-317), and Kanawha River, WV	1992	12.00
62	Cincinnati, OH, and Ports on Ohio River (Miles 317-560)	1991	8.50
63	Louisville, KY, Ports on Ohio River (Miles 560-980), and Cumberland and Green Rivers	1992	10.50
64	Ports on Tennessee River, Tennessee-Tombigbee and Black Warrior-Tombigbee Waterways, and Alabama River	1986	11.00
65	Illinois Waterway, IL.	1994	12.00
68	Ports on the Missouri, Arkansas, Verdigris, White, and Ouachita Rivers	1987	10.00
69	Minneapolis-St. Paul, MN, and Ports on Upper Mississippi River (Miles 300-860 AOR)	1994	33.00
70	St. Louis, MO, and Ports on Upper Mississippi River (Miles 0-300 AOR)	1992	9.50
71	Memphis, TN; Helena, AR; and Ports on Lower Mississippi River (Miles 620-954 AHP)	1993	10.00
72	Natchez, Vicksburg, and Greenville, MS, and Ports on Lower Mississippi River (Miles 255-620 AHP)	1991	8.00

* Tentative date of publication.

Port Series reports may be ordered from the Navigation Data Center (CEWRC-NDC-P), 7701 Telegraph Road, Casey Building, Alexandria, VA 22315-3868. Federal law requires advance payment for all purchases. Check or money order (in U.S. funds) should be made payable to the Superintendent of Documents. Telephone/telex orders are accepted and can be charged to Visa, Master Card, and Superintendent of Documents or National Technical Information Service accounts (Phone: 703/428-6495; Telefax: 703/428-6047). Publications are mailed postpaid (4th Class Mail) on the same day that order is received unless a prepaid alternate delivery method is specified. Prices are subject to change without notice. For a review of other services provided through the Navigation Data Center, please contact the Internet Access NDC Home Page at <http://www.wrc.usace.army.mil/ndc> or for E-mail: webmaster@wrc-ndc.usace.army.mil. (12/98)