
WATERBORNE

COMMERCE

OF THE

UNITED STATES

Calendar Year 1990

Part 3—
Waterways and Harbors
Great Lakes

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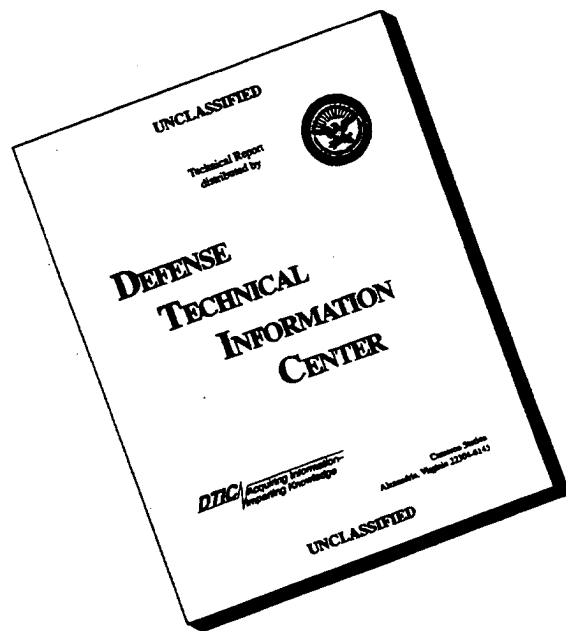


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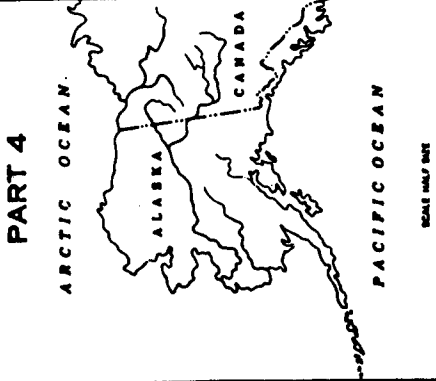
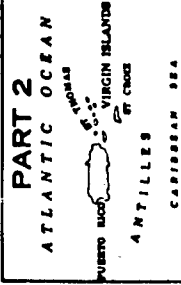
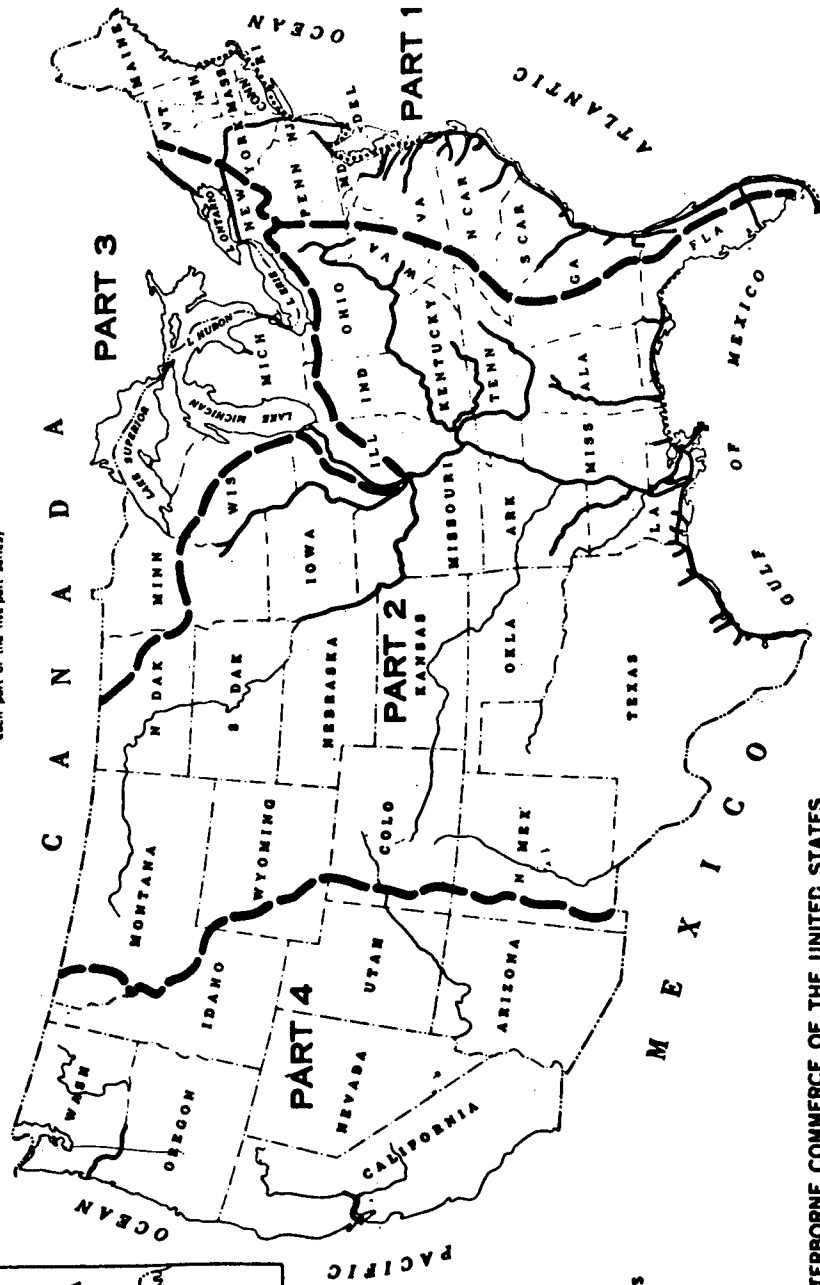


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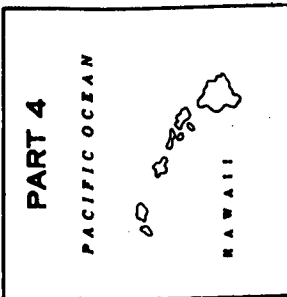
Geographical Areas Covered by
Waterborne Commerce Statistics Publications
of the

DEPARTMENT OF THE ARMY CORPS OF ENGINEERS

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



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)

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Introduction

General

Waterborne Commerce of the United States, WCUS, Part 3 is one of a series of publications which provide statistics on the foreign and domestic waterborne commerce moved on the United States waters. **WCUS, Parts 1-4** present detailed data on the movements of vessels and commodities at the ports and harbors and on the waterways and canals of the United States, the Commonwealth of Puerto Rico, and the Virgin Islands.

The publication numbers and the geographical areas covered in **WCUS, Parts 1-5** are detailed below:

- WCUS, Part 1 Atlantic Coast**
- WCUS, Part 2 Gulf Coast, Mississippi River System and Antilles**
- WCUS, Part 3 Great Lakes**
- WCUS, Part 4 Pacific Coast, Alaska and Hawaii**
- WCUS, Part 5 National Summaries**

Legal Authority

The legal authority for the collection, compilation and publication of waterborne commerce statistics by the Army Corps of Engineers is Section 11 of the Rivers and Harbors Appropriations Act of 1922 (42 Stat. 1043), as amended, and codified in 33 U.S.C. 555 and provides the following:

Owners, agents, masters, and clerks of vessels and other craft plying upon the navigable waters of the United States, and all individuals and corporations engaged in transporting their own goods upon the navigable waters of the United States, shall furnish such statements relative to vessels, passengers, freight and tonnage as may be required by the Secretary of the Army: Provided. That this provision shall not apply to those rafting logs, except upon a direct request upon the owner to

furnish specific information.

Every person or persons offending against the provisions of this section shall, for each and every offense, be liable to a fine of not more than \$5,000 or imprisonment not exceeding two months, to be enforced in any district court of the United States within whose territorial jurisdiction such offense may have been committed. In addition, the Secretary may assess a civil penalty of up to \$2,500 per violation against any person or entity, that fails to provide timely, accurate statements required to be submitted pursuant to this section by the Secretary.

The vessel and commodity movement information collected and compiled is designed to meet the data requirements of the Department of the Army in connection with the duties assigned by Congress. These data also provide valuable information for other governmental departments, commercial and shipping concerns and others interested in the U.S. transportation industry.

Domestic Commerce

Contiguous and non-contiguous states and territories constitute the geographical space upon which domestic commerce may be transported. This includes Hawaii, Alaska, the 48 contiguous states, Puerto Rico and the Virgin Islands, Guam, American Samoa, Wake Island and the U.S. Trust Territories.

The waterborne traffic movements are reported to the Corps of Engineers by all vessel operators of record on ENG Forms 3925 and 3925b (or equivalent) approved by the Office of Management and Budget under the Paperwork Reduction Act (44 U.S.C. 3510(a)). The reports are generally submitted on the basis of individual vessel movements completed. For movements

with cargo, the point of loading and the point of unloading of each individual commodity must be delineated. Cargo moved for the military agencies in commercial vessels is reported as ordinary commercial cargo; military cargo movements in Department of Defense vessels are not collected.

In summarizing the domestic commerce certain movements are excluded: Cargo carried on general ferries; coal and petroleum products loaded from shore facilities directly into bunkers of vessels for fuel; and insignificant amounts of government materials (less than 100 tons) moved on government owned equipment in support of Corps projects.

Foreign Commerce

Foreign commerce is waterborne import and export 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 commerce data are furnished to the Corps of Engineers by the Bureau of the Census under a working arrangement sponsored by the Office of Management and Budget. The data are confined to vessel movements by water and are reconcilable with published reports of the Bureau of Census with the exception of LOOP Oil Terminal and Skagway Wharf reports which are manually entered as imports by the Corps of Engineers, and with the exception of coal exports to Canada from the ports of Ashtabula, Conneaut, Sandusky, and Toledo. Coal exports from these four ports were furnished to WCSC by Resource Data International, (RDI)* Inc who compiled this data from Bills of Lading filed at these ports.

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 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 Waterborne Commerce of the United States (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.

*Resource Data International, Inc
1320 Pearl St.
Boulder, CO 80302
Telephone: 303-444-7788
Telefax: 303-444-1286

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 4 trips are logged.)

Some towboats 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 Census who process the data collected on U.S. Customs 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.

Intransit Merchandise: Which is inbound merchandise coming into the United States from a foreign country and shipped to a foreign country without having been entered as an import. Intransit merchandise is treated as an **Import** when unloaded from a vessel and as an **Export** 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, sand and gravel being moved from the Great Lakes to Great Lake destinations were classified as local traffic. From 1990 on, these activities are classified as lakewise traffic.

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

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

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

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

Intra-waterway: 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, U.S.A. which are considered a single unit.

Traffic Direction

Waterways

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

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

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

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

Ports

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

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

Commodity 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 and Related Products
 - 3211 Acyclic Hydrocarbons
 - 3212 Benzene & Toluene
 - 3219 Other Hydrocarbons
 - 3220 Alcohols
 - 3230 Carboxylic Acids
 - 3240 Nitrogen Func. Comp.
 - 3250 Organo-Inorgan Comp
 - 3260 Organic Comp. NEC
 - 3271 Sulphur (Liquid)
 - 3272 Sulphuric Acid
 - 3273 Ammonia
 - 3274 Sodium Hydroxide
 - 3275 Inorg. Elem., Oxides, & Halogen Salts
 - 3276 Metallic Salts
 - 3279 Inorganic Chem. NEC
 - 3281 Radioactive Material
 - 3282 Pigments & Paints

Major Grouping

Minor Grouping

Pub Group Pub Name

- 3283 Coloring Mat. NEC
- 3284 Medicines
- 3285 Perfumes & Cleansers
- 3286 Plastics
- 3291 Pesticides
- 3292 Starches, Gluten, Glue
- 3293 Explosives
- 3297 Chemical Additives
- 3298 Wood & Resin Chem.
- 3299 Chem. Products NEC
- 40 Crude Materials, Inedible Except Fuels
 - 41 Forest Products, Wood and Chips
 - 4110 Rubber & Gums
 - 4150 Fuel Wood
 - 4161 Wood Chips
 - 4170 Wood in the Rough
 - 4189 Lumber
 - 4190 Forest Products NEC
 - 42 Pulp and Waste Paper
 - 4225 Pulp & Waste Paper
 - 43 Soil, Sand, Gravel, Rock and Stone
 - 4310 Building Stone
 - 4322 Limestone
 - 4323 Gypsum
 - 4327 Phosphate Rock
 - 4331 Sand & Gravel
 - 4333 Dredged Material
 - 4335 Waterway Improv. Mat
 - 4338 Soil & Fill Dirt
 - 44 Iron Ore and Scrap
 - 4410 Iron Ore
 - 4420 Iron & Steel Scrap
 - 45 Marine Shells
 - 4515 Marine Shells
 - 46 Non-Ferrous Ores and Scrap
 - 4630 Copper Ore
 - 4650 Aluminum Ore
 - 4670 Manganese Ore
 - 4680 Non-Ferrous Scrap
 - 4690 Non-Ferrous Ores NEC
 - 47 Sulphur, Clay and Salt
 - 4741 Sulphur, (Dry)
 - 4782 Clay & Refrac. Mat.
 - 4783 Salt
 - 48 Slag
 - 4860 Slag
 - 49 Other Non-Metal. Min.
 - 4900 Non-Metal. Min. NEC

Commodity Classification List (continued)

Major Grouping

Minor Grouping

Pub Group Pub Name

- 50 Primary Manufactured Goods
 - 51 Paper Products
 - 5110 Newsprint
 - 5120 Paper & Paperboard
 - 5190 Paper Products NEC
 - 52 Lime, Cement and Glass
 - 5210 Lime
 - 5220 Cement & Concrete
 - 5240 Glass & Glass Prod.
 - 5290 Misc. Mineral Prod.
 - 53 Primary Iron and Steel Products
 - 5312 Pig Iron
 - 5315 Ferro Alloys
 - 5320 I&S Primary Forms
 - 5330 I&S Plates & Sheets
 - 5360 I&S Bars & Shapes
 - 5370 I&S Pipe & Tube
 - 5390 Primary I&S NEC
 - 54 Primary Non-Ferrous Metal Products
 - 5421 Copper
 - 5422 Aluminum
 - 5429 Smelted Prod. NEC
 - 5480 Fab. Metal Products
 - 55 Primary Wood Products; Veneer
 - 5540 Primary Wood Prod.
- 60 Food and Farm Products
 - 61 Fish
 - 6134 Fish (Not Shellfish)
 - 6136 Shellfish
 - 62-64 Grain
 - 6241 Wheat
 - 6344 Corn
 - 6442 Rice
 - 6443 Barley & Rye
 - 6445 Oats
 - 6447 Sorghum Grains
 - 65 Oilseeds
 - 6521 Peanuts
 - 6522 Soybeans
 - 6534 Flaxseed
 - 6590 Oilseeds NEC
 - 66 Vegetable Products
 - 6653 Vegetable Oils
 - 6654 Vegetables & Prod.
 - 67 Processed Grain and Animal Fed
 - 6746 Wheat Flour
 - 6747 Grain Mill Products
 - 6781 Hay & Fodder
 - 6782 Animal Feed, Prep.
 - 68 Other Agricultural Products

Major Grouping

Minor Grouping

Pub Group Pub Name

- 6811 Meat, Fresh, Frozen
- 6817 Meat, Prepared
- 6822 Dairy Products
- 6835 Fish, Prepared
- 6838 Tallow, Animal Oils
- 6839 Animals & Prod. NEC
- 6856 Bananas & Plantains
- 6857 Fruit & Nuts NEC
- 6858 Fruit Juices
- 6861 Sugar
- 6865 Molasses
- 6871 Coffee
- 6872 Cocoa Beans
- 6885 Alcoholic Beverages
- 6887 Groceries
- 6888 Water & Ice
- 6889 Food Products NEC
- 6891 Tobacco & Products
- 6893 Cotton
- 6894 Natural Fibers NEC
- 6899 Farm Products NEC
- 70 All Manufactured Equipment, Machinery and Products
 - 7110 Machinery (Not Elec)
 - 7120 Electrical Machinery
 - 7210 Vehicles & Parts
 - 7220 Aircraft & Parts
 - 7230 Ships & Boats
 - 7300 Ordnance & Access.
 - 7400 Manufac. Wood Prod.
 - 7500 Textile Products
 - 7600 Rubber & Plastic Pr.
 - 7800 Empty Containers
 - 7900 Manufac. Prod. NEC
- 80 Waste and Scrap NEC
 - 8900 Waste and Scrap NEC
- 90 Unknown or Not Elsewhere Classified
 - 99 Unknown or Not Elsewhere Clsfd
 - 9900 Unknown or NEC

TABLE 1 - TON-MILEAGE OF UNITED STATES FREIGHT CARRIED ON THE GREAT LAKES BY AREA, CALENDAR YEAR 1990
(thousand ton-miles)

Area	Foreign						Domestic					
	Overseas		Canadian		Coastwise		Lakewise		Internal		Intraport	
	In/Out	Through	In/Out	Through	In/Out	Through	In/Out	Through	In/Out	Through	In/Out	
DETROIT RIVER, MI	17,029	117,810	49,949	420,996	---	---	181,614	1,070,050	143	41	---	---
*LAKE ERIE	283,542	1,213,433	2,616,987	2,067,494	---	---	2,142,548	4,340	48	84	---	5
LAKE HURON	6,109	1,035,261	641,198	2,449,082	---	---	5,271,823	13,227,493	---	1,044	---	---
**LAKE MICHIGAN	843,927	---	1,688,890	42	1,176	---	13,164,121	---	26,250	---	68,935	---
***LAKE ONTARIO	2,108	2,405,974	204,631	4,406,799	---	---	2,823	8,626	68	61	---	---
LAKE SUPERIOR	657,361	---	1,610,188	285,584	---	---	22,691,585	---	---	---	540	---
ST. CLAIR RIVER, MI	322	147,872	10,553	562,091	---	---	174,523	1,786,227	---	142	---	---
***ST. LAWRENCE RIVER	3,438	704,223	36,431	1,154,696	---	---	3,992	---	---	---	---	---
ST. MARYS RIVER, MI	21	106,948	1,783	359,628	---	---	12,448	4,032,092	---	---	---	---
WELLAND CANAL, CANADA	---	172,252	---	525,696	---	---	---	1,208	---	9	---	---
NET UNITED STATES TRAFFIC ON THE GREAT LAKES	7,717,632	---	18,632,937	---	1,176	---	63,775,513	---	27,890	---	69,480	---

* Including Upper Niagara River
 ** Including the Port of Chicago (Chicago Harbor, North 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 1990
(thousand tons)

Area	Area Totals	Foreign						Domestic					
		Overseas		Canadian		Coastwise		Lakewise		Internal		Intraport	
		In/Out	Through	In/Out	Through	In/Out	Through	In/Out	Through	In/Out	Through	In/Out	Through
DETROIT RIVER, MI	69,635	808	3,800	3,027	13,581			13,807	34,518	94	1		
*LAKE ERIE	83,245	1,733	4,627	24,511	8,118			44,235	17	1	0		5
LAKE HURON	108,571	21	3,770	3,248	10,255			24,552	66,721		4		
**LAKE MICHIGAN	54,880	2,099		4,356	0		4	42,608		2,926			2,888
***LAKE ONTARIO	26,303	4	6,356	1,075	18,755			15	30	68	0		
LAKE SUPERIOR	74,429	1,671		6,379	1,582			64,256					540
ST. CLAIR RIVER, MI	75,438	9	3,792	1,224	14,413			10,197	45,801		4		
****ST. LAWRENCE RIVER	16,940	15	6,344	164	10,386			30					
ST. MARYS RIVER, MI	71,865	0	1,671	112	6,315			765	63,001				
WELLAND CANAL, CANADA	25,560		6,360		19,155				45		0		
NET UNITED STATES TRAFFIC ON THE GREAT LAKES	167,140	6,360		44,096		4		110,159		3,088			3,432

* 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 tons)

Year	Total	Year	Total
1981	148,147	1986	137,918
1982	127,389	1987	148,108
1983	138,218	1988	168,816
1984	162,799	1989	168,902
1985	148,147	1990	167,140

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Foreign				Domestic			
		Imports		Exports		Coastwise	Lakewise	Internal	Local
		Canadian	Overseas	Canadian	Overseas				
Total, all commodities	167,140	14,535	3,023	29,561	3,337	4	110,159	3,088	3,432
Total coal	39,360	397	-----	18,863	193	-----	19,570	263	74
1100 coal lignite	38,653	290	-----	18,511	193	-----	19,560	75	24
1200 coal coke	707	106	-----	352	0	-----	10	189	50
Total petroleum and petroleum products	6,420	1,072	0	824	361	-----	2,427	830	907
Subtotal crude petroleum	7	7	-----	-----	-----	-----	-----	-----	-----
2100 crude petroleum	7	7	-----	-----	-----	-----	-----	-----	-----
Subtotal petroleum products	6,413	1,066	0	824	361	-----	2,427	830	907
2211 gasoline	1,050	109	-----	48	-----	-----	694	67	133
2221 kerosene	15	-----	-----	15	-----	-----	-----	-----	-----
2330 distillate fuel oil	1,144	173	-----	64	3	-----	450	226	228
2340 residual fuel oil	1,718	623	-----	326	55	-----	257	242	213
2350 lube oil & greases	64	29	0	4	0	-----	-----	30	-----
2429 naphtha & solvents	86	15	-----	10	-----	-----	-----	19	42
2430 asphalt, tar & pitch	1,382	113	-----	-----	-----	-----	822	169	278
2540 petroleum coke	951	-----	-----	356	303	-----	203	76	13
2640 liquid natural gas	5	4	-----	-----	-----	-----	0	-----	-----

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES, BY TYPE OF TRAFFIC AND COMMODITY
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign				Domestic			
		Imports		Exports		Coastwise	Lakewise	Internal	Local
		Canadian	Overseas	Canadian	Overseas				
Total chemicals and related products	2,661	1,563	69	197	43	-----	181	393	214
Subtotal fertilizers	1,399	992	24	171	33	-----	2	178	-----
3110 nitrogenous fert.	309	98	24	36	-----	-----	0	151	-----
3120 phosphatic fert.	19	-----	-----	8	-----	-----	2	9	-----
3130 potassic fert.	921	894	-----	27	-----	-----	-----	-----	-----
3190 fert. & mixes nec	150	0	-----	99	33	-----	-----	18	-----
Subtotal other chemicals and related products	1,262	571	45	27	10	-----	179	215	214
3211 acyclic hydrocarbons	15	15	-----	0	-----	-----	-----	-----	-----
3212 benzene & toluene	50	7	-----	-----	-----	-----	-----	-----	43
3219 other hydrocarbons	189	115	4	7	4	-----	-----	15	44
3220 alcohols	158	35	0	0	0	-----	-----	-----	123
3230 carboxylic acids	1	-----	0	0	0	-----	-----	-----	-----
3240 nitrogen func. comp.	17	16	0	1	0	-----	-----	-----	-----
3250 organo-inorgan. comp	0	-----	0	0	0	-----	-----	-----	-----
3260 organic comp. nec	19	15	0	-----	1	-----	-----	-----	3
3272 sulphuric acid	12	12	-----	-----	-----	-----	-----	-----	-----
3273 ammonia	19	19	-----	-----	-----	-----	-----	-----	-----
3274 sodium hydroxide	232	206	0	15	0	-----	-----	9	1
3275 inorg. elem., oxides, & halogen salts	85	53	9	0	0	-----	22	-----	-----
3276 metallic salts	405	33	25	0	0	-----	157	191	-----
3279 inorganic chem. nec	1	1	0	0	-----	-----	-----	-----	-----
3282 pigments & paints	5	1	3	1	0	-----	-----	-----	-----
3283 coloring mat. nec	0	-----	0	0	0	-----	-----	-----	-----
3284 medicines	1	-----	0	0	1	-----	-----	-----	-----
3285 perfumes & cleansers	1	0	0	0	1	-----	-----	-----	-----
3286 plastics	24	21	1	1	2	-----	0	-----	-----
3291 pesticides	0	-----	0	0	0	-----	-----	-----	-----
3292 starches, gluten, glue	1	-----	1	0	0	-----	-----	-----	-----
3293 explosives	0	-----	-----	-----	0	-----	0	-----	-----
3297 chemical additives	0	-----	0	-----	0	-----	-----	-----	-----

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES, BY TYPE OF TRAFFIC AND COMMODITY
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Grand Total	Foreign				Domestic			
		Imports		Exports		Coastwise	Lakewise	Internal	Local
		Canadian	Overseas	Canadian	Overseas				
3298 wood & resin chem.	0			0			0		
3299 chem. products nec	26	25	0	0	0				
Total crude materials, inedible except fuels	103,087	8,577	275	7,093	414		83,728	873	2,126
Subtotal forest products, wood and chips	35	7	0	0	1		27		
4110 rubber & gums	0			0					
4150 fuel wood	1						1		
4170 wood in the rough	1			0	0		1		
4189 lumber	33	7	0	0	1		25		
4190 forest products nec	0		0		0				
Subtotal pulp and waste paper	131	105	21	3	3		0		
4225 pulp & waste paper	131	105	21	3	3		0		
Subtotal soil, sand, gravel, rock and stone	29,318	297	0	3,084	0		23,818		2,119
4310 building stone	6	6	0				0		
4322 limestone	24,457			2,656	0		21,800		
4323 gypsum	1,047			28			1,019		
4331 sand & gravel	3,808	291	0	399	0		999		2,119
4335 waterway improv. mat	0						0		
4338 soil & fill dirt	0						0		
Subtotal iron ore and scrap	67,511	5,012	30	3,419	327		58,128	587	7
4410 iron ore	66,806	4,934	29	3,408			58,102	330	4
4420 iron & steel scrap	705	78	1	12	327		27	258	3
Subtotal marine shells	9							9	
4515 marine shells	9							9	
Subtotal non-ferrous ores and scrap	467	0	204	162	11			88	
4630 copper ore	0				0				
4650 aluminum ore	100		17	6	0			77	
4670 manganese ore	63		36	16				12	
4680 non-ferrous scrap	37	0	32	0	5				
4690 non-ferrous ores nec	267		120	140	7				

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES, BY TYPE OF TRAFFIC AND COMMODITY
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Grand Total	Foreign				Domestic			
		Imports		Exports		Coastwise	Lakewise	Internal	Local
		Canadian	Overseas	Canadian	Overseas				
Subtotal sulphur, clay and salt	1,414	1,089	20	55	68	-----	176	5	-----
4782 clay & refrac. mat.	1,414	1,089	20	55	68	-----	176	5	-----
Subtotal slag	1,246	399	-----	3	3	-----	667	174	-----
4860 slag	1,246	399	-----	3	3	-----	667	174	-----
Subtotal other non-metal. min.	2,956	1,668	0	367	0	-----	912	9	-----
4900 non-metal. min. nec	2,956	1,668	0	367	0	-----	912	9	-----
Total primary manufactured goods	8,308	1,448	2,641	74	220	-----	3,271	621	33
Subtotal paper products	258	131	1	1	1	-----	123	-----	-----
5110 newsprint	124	124	-----	0	-----	-----	-----	-----	-----
5120 paper & paperboard	78	7	1	1	1	-----	68	-----	-----
5190 paper products nec	56	-----	0	0	0	-----	55	-----	-----
Subtotal lime, cement and glass	4,436	1,216	5	63	0	-----	3,084	68	-----
5210 lime	0	-----	-----	-----	-----	-----	0	-----	-----
5220 cement & concrete	4,428	1,216	-----	61	-----	-----	3,083	68	-----
5240 glass & glass prod.	1	0	0	0	0	-----	0	-----	-----
5290 misc. mineral prod.	7	0	5	2	0	-----	1	-----	-----
Subtotal primary iron and steel products	3,386	91	2,563	9	218	-----	64	411	31
5312 pig iron	154	66	85	-----	-----	-----	-----	3	-----
5315 ferro alloys	136	17	70	0	-----	-----	5	14	29
5320 i&s primary forms	251	0	185	0	7	-----	1	57	-----
5330 i&s plates & sheets	2,095	0	1,802	5	210	-----	-----	77	-----
5360 i&s bars & shapes	385	1	371	0	-----	-----	-----	13	1
5370 i&s pipe & tube	44	2	41	0	0	-----	0	-----	0
5390 primary i&s nec	321	5	8	4	0	-----	57	246	1
Subtotal primary non-ferrous metal products	224	7	72	1	0	-----	0	143	1
5421 copper	0	-----	0	0	0	-----	-----	-----	-----
5422 aluminum	5	4	1	0	0	-----	-----	-----	-----
5429 smelted prod. nec	72	0	66	0	0	-----	-----	5	-----

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES, BY TYPE OF TRAFFIC AND COMMODITY
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign				Domestic			
		Imports		Exports		Coastwise	Lakewise	Internal	Local
		Canadian	Overseas	Canadian	Overseas				
5480 fab. metal products	147	2	4	1	0	-----	0	138	1
Subtotal primary wood products	4	4	0	0	1	-----	-----	-----	-----
5540 primary wood prod.	4	4	0	0	1	-----	-----	-----	-----
Total food and farm products	6,180	568	4	2,501	2,086	-----	919	101	-----
Subtotal fish	6	-----	-----	0	6	-----	0	-----	-----
6134 fish (not shellfish)	6	-----	-----	0	6	-----	0	-----	-----
6136 shellfish	0	-----	-----	-----	0	-----	-----	-----	-----
Subtotal grain	5,663	551	0	2,381	1,739	-----	909	83	-----
6241 wheat	2,914	272	-----	724	985	-----	909	24	-----
6344 corn	1,256	-----	-----	707	489	-----	-----	59	-----
6442 rice	0	-----	0	0	-----	-----	-----	-----	-----
6443 barley & rye	1,247	32	-----	949	265	-----	-----	-----	-----
6445 oats	247	247	-----	-----	-----	-----	-----	-----	-----
Subtotal oilseeds	362	13	0	84	251	-----	-----	13	-----
6521 peanuts	0	-----	-----	0	-----	-----	-----	-----	-----
6522 soybeans	348	-----	0	84	251	-----	-----	13	-----
6534 flaxseed	10	10	-----	-----	-----	-----	-----	-----	-----
6590 oilseeds nec	4	4	-----	0	0	-----	-----	-----	-----
Subtotal vegetable products	33	0	1	1	27	-----	4	-----	-----
6653 vegetable oils	0	-----	0	-----	-----	-----	-----	-----	-----
6654 vegetables & prod.	33	0	0	1	27	-----	4	-----	-----
Subtotal processed grain and animal feed	47	4	0	7	28	-----	5	4	-----
6746 wheat flour	0	-----	-----	-----	0	-----	-----	-----	-----
6747 grain mill products	1	0	0	0	0	-----	-----	-----	-----
6781 hay & fodder	2	2	-----	-----	-----	-----	-----	-----	-----
6782 animal feed, prep.	45	1	0	7	27	-----	5	4	-----
Subtotal other agricultural products	68	0	3	29	35	-----	1	-----	-----
6811 meat, fresh, frozen	1	-----	0	0	0	-----	0	-----	-----
6817 meat, prepared	0	-----	0	0	-----	-----	-----	-----	-----
6822 dairy products	0	-----	0	0	-----	-----	0	-----	-----
6835 fish, prepared	0	-----	0	-----	0	-----	-----	-----	-----
6838 tallow, animal oils	8	-----	-----	-----	8	-----	-----	-----	-----
6839 animals & prod. nec	0	0	0	0	0	-----	-----	-----	-----
6856 bananas & plantains	0	-----	-----	0	-----	-----	-----	-----	-----

TABLE 3 - NET SUMMARY OF FOREIGN AND DOMESTIC FREIGHT CARRIED ON THE GREAT LAKES, BY TYPE OF TRAFFIC AND COMMODITY
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign				Domestic			
		Imports		Exports		Coastwise	Lakewise	Internal	Local
		Canadian	Overseas	Canadian	Overseas				
6857 fruit & nuts nec	0			0	0		0		
6858 fruit juices	1		0	1	0				
6861 sugar	0			0					
6865 molasses	1			1			0		
6871 coffee	0		0	0	0				
6872 cocoa beans	0		0	0					
6885 alcoholic beverages	28	0	2	25			0		
6887 groceries	0						0		
6888 water & ice	0		0				0		
6889 food products nec	2		1	1	0		0		
6891 tobacco & products	0				0				
6893 cotton	0			0					
6899 farm products nec	25	0	0		25				
Total all manufactured equipment, machinery and products	1,014	884	32	7	21	4	58	7	
7110 machinery (not elec)	159	102	19	4	18	4	6	7	
7120 electrical machinery	5	2	2	0	1		0		
7210 vehicles & parts	765	758	5	1	0		0		
7220 aircraft & parts	0	0	0	0	0				
7230 ships & boats	0	0	0	0	0		0		
7300 ordnance & access.	0				0				
7400 manufac. wood prod.	3		0	0			3		
7500 textile products	2		2	0	0		0		
7600 rubber & plastic pr.	37	21	2	1	0		13		
7900 manufac. prod. nec	41	1	2	1	0		36		
Total waste and scrap nec	79						0		78
8900 waste and scrap nec	79						0		78
Total unknown or not elsewhere classified	32	25	1	1	0		4		
9900 unknown or nec	32	25	1	1	0		4		

Section 1
Freight Traffic

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 tons)

Year	Total	Year	Total
1981	11,332	1986	6,609
1982	5,060	1987	7,414
1983	9,055	1988	12,116
1984	7,677	1989	10,536
1985	9,631	1990	12,313

Freight Traffic, 1990
 (thousand tons)

Commodity	Grand Total	Lakewise	
		Receipts	Shipments
Total, all commodities	12,313	5	12,308
Total petroleum and petroleum products	5	5	-----
Subtotal petroleum products	5	5	-----
2330 distillate fuel oil	1	1	-----
2340 residual fuel oil	4	4	-----
Total crude materials, inedible except fuels	12,308	-----	12,308
Subtotal iron ore and scrap	12,308	-----	12,308
4410 iron ore	12,308	-----	12,308

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 tons)

Year	Total	Year	Total
1981	39,426	1986	29,155
1982	27,436	1987	36,463
1983	30,094	1988	40,002
1984	37,256	1989	40,803
1985	28,817	1990	40,766

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Imports	Exports	Imports	Exports	Total	Lakewise		Internal Intraport
							Receipts	Shipments	
Total, all commodities	40,766	47	1,622	747	3,319	35,032	2,687	31,807	538
Total coal	12,386	-----	-----	-----	380	12,007	132	11,875	-----
1100 coal lignite	12,386	-----	-----	-----	380	12,007	132	11,875	-----
Total petroleum and petroleum products	266	-----	109	32	-----	125	30	25	70
Subtotal petroleum products	266	-----	109	32	-----	125	30	25	70
2211 gasoline	46	-----	-----	8	-----	39	21	18	-----
2330 distillate fuel oil	24	-----	3	-----	-----	21	9	2	9
2340 residual fuel oil	89	-----	-----	24	-----	65	-----	4	61
2350 lube oil & greases	0	-----	0	-----	-----	-----	-----	-----	-----
2540 petroleum coke	106	-----	106	-----	-----	-----	-----	-----	-----
Total chemicals and related products	17	0	0	-----	-----	16	16	-----	-----
Subtotal other chemicals and related products	17	0	0	-----	-----	16	16	-----	-----
3230 carboxylic acids	0	0	-----	-----	-----	-----	-----	-----	-----
3260 organic comp. nec	0	-----	0	-----	-----	-----	-----	-----	-----
3274 sodium hydroxide	0	-----	0	-----	-----	-----	-----	-----	-----

DULUTH-SUPERIOR HARBOR, MN AND WI
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Imports	Exports	Imports	Exports	Total	Lakewise		Internal Intraport
							Receipts	Shipments	
3276 metallic salts	16					16	16		
3284 medicines	0	0							
3286 plastics	0		0						
Total crude materials, inedible except fuels	23,208		3	256	1,157	21,791	2,324	18,999	468
Subtotal forest products, wood and chips	0			0					
4189 lumber	0			0					
Subtotal pulp and waste paper	83			83					
4225 pulp & waste paper	83			83					
Subtotal soil, sand, gravel, rock and stone	2,974					2,974	2,290	217	468
4322 limestone	2,494					2,494	2,277	217	
4331 sand & gravel	481					481	13		468
Subtotal iron ore and scrap	19,878				1,114	18,764	9	18,755	
4410 iron ore	19,878				1,114	18,764	9	18,755	
Subtotal sulphur, clay and salt	46		3		43				
4782 clay & refrac. mat.	46		3		43				
Subtotal slag	28			1		27		27	
4860 slag	28			1		27		27	
Subtotal other non-metal. min.	198			172		26	26		
4900 non-metal. min. nec	198			172		26	26		
Total primary manufactured goods	437	45	0	208	0	184	184		
Subtotal paper products	111			111					
5110 newsprint	106			106					
5120 paper & paperboard	4			4					
Subtotal lime, cement and glass	281			98	0	184	184		
5220 cement & concrete	281			98	0	184	184		
5240 glass & glass prod.	0				0				

DULUTH-SUPERIOR HARBOR, MN AND WI
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		Internal Intraport
		Imports	Exports	Imports	Exports	Total	Lakewise Receipts Shipments	
Subtotal primary iron and steel products	45	45						
5330 i&s plates & sheets	45	45						
Subtotal primary non-ferrous metal products	0		0					
5480 fab. metal products	0		0					
Total food and farm products	4,451		1,509	250	1,782	909	909	
Subtotal grain	4,259		1,334	234	1,782	909	909	
6241 wheat	2,599		951	22	717	909	909	
6344 corn	233		117		116			
6443 barley & rye	1,243		265	29	949			
6445 oats	183			183				
Subtotal oilseeds	131		118	13				
6522 soybeans	118		118					
6534 flaxseed	10			10				
6590 oilseeds nec	4			4				
Subtotal vegetable products	26		26					
6654 vegetables & prod.	26		26					
Subtotal processed grain and animal feed	9		6	2				
6747 grain mill products	0			0				
6781 hay & fodder	2			2				
6782 animal feed, prep.	6		6					
Subtotal other agricultural products	26		25	0				
6857 fruit & nuts nec	0		0					
6858 fruit juices	0		0					
6899 farm products nec	25		25	0				
Total all manufactured equipment, machinery and products	2	2	0					
7110 machinery (not elec)	0	0						
7210 vehicles & parts	0	0	0					
7230 ships & boats	0		0					

DULUTH-SUPERIOR HARBOR, MN AND WI
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Imports	Exports	Imports	Exports	Total	Lakewise		Internal
							Receipts	Shipments	
7500 textile products	1	1	-----	-----	-----	-----	-----	-----	
7900 manufac. prod. nec	0	-----	0	-----	-----	-----	-----	-----	
Total unknown or not elsewhere classified	0	-----	0	-----	0	-----	-----	-----	
9900 unknown or nec	0	-----	0	-----	0	-----	-----	-----	

TACONITE HARBOR, MN

NON-CORPS PROJECT

Comparative Statement of Traffic
 (thousand tons)

Year	Total	Year	Total
1981	9,246	1986	6,102
1982	4,217	1987	7,555
1983	3,925	1988	8,267
1984	4,175	1989	8,991
1985	5,446	1990	9,651

Freight Traffic, 1990
 (thousand tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	
					Receipts	Shipments
Total, all commodities	9,651	9	33	9,608	12	9,596
Total coal	12	-----	-----	12	12	-----
1100 coal lignite	12	-----	-----	12	12	-----
Total petroleum and petroleum products	17	9	8	-----	-----	-----
Subtotal petroleum products	17	9	8	-----	-----	-----
2340 residual fuel oil	17	9	8	-----	-----	-----
Total crude materials, inedible except fuels	9,621	-----	25	9,596	-----	9,596
Subtotal iron ore and scrap	9,621	-----	25	9,596	-----	9,596
4410 iron ore	9,621	-----	25	9,596	-----	9,596

Other Harbors and Waterways

Harbor or Waterway	Commodity	Tons Thousand
Project		
ASHLAND HARBOR, WI	1100 coal lignite	78
	4322 limestone	36
	Total Tons(x1000)	115
BAYFIELD HARBOR, WI	2211 gasoline	0
	2330 distillate fuel oil	0
	2640 liquid natural gas	0
	4150 fuel wood	1
	4170 wood in the rough	0
	4331 sand & gravel	14
	7230 ships & boats	0
	7900 manufac. prod. nec	15
Total Tons(x1000)	30	
BEAVER BAY HARBOR, MN	No Commerce Reported	
CHIPPEWA HARBOR (ISLE ROYALE), MI	No Commerce Reported	
CORNUCOPIA HARBOR, WI	No Commerce Reported	
GRAND MARAIS HARBOR, MN	No Commerce Reported	
KNIFE RIVER HARBOR, MN	No Commerce Reported	
LA POINTE HARBOR, WI	2211 gasoline	0
	2330 distillate fuel oil	0
	2640 liquid natural gas	0
	7900 manufac. prod. nec	15
	Total Tons(x1000)	16
LUTSEN HARBOR, MN	No Commerce Reported	
PORT WING HARBOR, WI	No Commerce Reported	
WARROAD HARBOR, MN	No Commerce Reported	
Non-project		
SILVER BAY, MN	1100 coal lignite	216
	4410 iron ore	2,300
	Total Tons(x1000)	2,516

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 tons)

Year	Total	Year	Total
1981	211	1986	464
1982	114	1987	458
1983	192	1988	480
1984	343	1989	470
1985	405	1990	490

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Lakewise Receipts
Total, all commodities	490	490
Total crude materials, inedible except fuels	247	247
Subtotal soil, sand, gravel, rock and stone	247	247
4323 gypsum	247	247
Total primary manufactured goods	242	242
Subtotal lime, cement and glass	242	242
5220 cement & concrete	242	242

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 tons)

Year	Total	Year	Total
1981	2,291	1986	2,678
1982	2,568	1987	1,814
1983	1,854	1988	1,779
1984	1,902	1989	1,709
1985	1,566	1990	2,207

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Internal				
		Inbound	Outbound		Through	
		Upbound	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	2,207	1,408	2	107	558	131
Total coal	3	1		1		
1100 coal lignite	1	1				
1200 coal coke	1			1		
Total petroleum and petroleum products	482		2		367	113
Subtotal petroleum products	482		2		367	113
2211 gasoline	12				8	4
2330 distillate fuel oil	148		2		99	46
2340 residual fuel oil	163				104	59
2350 lube oil & greases	8				8	
2430 asphalt, tar & pitch	132				129	3
2540 petroleum coke	19				19	
Total chemicals and related products	209				191	18
Subtotal fertilizers	18					18
3110 nitrogenous fert.	18					18
Subtotal other chemicals and related products	191				191	
3276 metallic salts	191				191	
Total crude materials, inedible except fuels	1,313	1,272		41		
Subtotal soil, sand, gravel, rock and stone	1,082	1,082				
4331 sand & gravel	1,082	1,082				
Subtotal iron ore and scrap	41			41		
4420 iron & steel scrap	41			41		
Subtotal other non-metal. min.	191	191				
4900 non-metal. min. nec	191	191				

CHICAGO RIVER (MAIN AND NORTH BRANCH), IL (INCLUDED IN PORT OF CHICAGO)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Internal				
		Inbound	Outbound		Through	
		Upbound	Upbound	Downbnd	Upbound	Downbnd
Total primary manufactured goods	135	135	-----	-----	-----	-----
Subtotal lime, cement and glass	130	130	-----	-----	-----	-----
5220 cement & concrete	130	130	-----	-----	-----	-----
Subtotal primary iron and steel products	3	3	-----	-----	-----	-----
5360 i&s bars & shapes	3	3	-----	-----	-----	-----
Subtotal primary non-ferrous metal products	1	1	-----	-----	-----	-----
5429 smelted prod. nec	1	1	-----	-----	-----	-----
Total food and farm products	7	-----	-----	7	-----	-----
Subtotal other agricultural products	7	-----	-----	7	-----	-----
6838 tallow, animal oils	7	-----	-----	7	-----	-----
Total waste and scrap nec	58	-----	-----	58	-----	-----
8900 waste and scrap nec	58	-----	-----	58	-----	-----
Ton-miles (x1000)	1,587	1,428	0	160	0	0
Tons All Traffic (x1000)	2,207					
Ton-miles All Traffic (x1000)	1,587					

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 tons)

Year	Total	Year	Total
1981	3,343	1986	3,334
1982	3,270	1987	2,371
1983	2,561	1988	2,054
1984	2,195	1989	2,220
1985	1,982	1990	2,857

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Internal			
		Inbound	Outbound	Through	
		Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	2,857	627	23	1,539	667
Total coal	411	408	-----	1	1
1100 coal lignite	409	408	-----	1	-----
1200 coal coke	1	-----	-----	-----	1
Total petroleum and petroleum products	482	-----	-----	113	369
Subtotal petroleum products	482	-----	-----	113	369
2211 gasoline	12	-----	-----	4	8
2330 distillate fuel oil	148	-----	-----	46	102
2340 residual fuel oil	163	-----	-----	59	104
2350 lube oil & greases	8	-----	-----	-----	8
2430 asphalt, tar & pitch	132	-----	-----	3	129
2540 petroleum coke	19	-----	-----	-----	19
Total chemicals and related products	209	-----	-----	18	191
Subtotal fertilizers	18	-----	-----	18	-----
3110 nitrogenous fert.	18	-----	-----	18	-----
Subtotal other chemicals and related products	191	-----	-----	-----	191
3276 metallic salts	191	-----	-----	-----	191
Total crude materials, inedible except fuels	1,553	217	23	1,272	41
Subtotal soil, sand, gravel, rock and stone	1,290	208	-----	1,082	-----
4331 sand & gravel	1,290	208	-----	1,082	-----
Subtotal iron ore and scrap	60	-----	19	-----	41
4420 iron & steel scrap	60	-----	19	-----	41
Subtotal sulphur, clay and salt	1	1	-----	-----	-----
4782 clay & refrac. mat.	1	1	-----	-----	-----
Subtotal other non-metal. min.	202	7	4	191	-----
4900 non-metal. min. nec	202	7	4	191	-----

CHICAGO RIVER, SOUTH BRANCH, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN
 STATISTICS FOR ILLINOIS WATERWAY)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Internal			
		Inbound	Outbound	Through	
		Upbound	Downbnd	Upbound	Downbnd
Total primary manufactured goods	137	2	-----	135	-----
Subtotal lime, cement and glass	132	2	-----	130	-----
5220 cement & concrete	132	2	-----	130	-----
Subtotal primary iron and steel products	4	1	-----	3	-----
5360 i&s bars & shapes	3	-----	-----	3	-----
5370 i&s pipe & tube	1	1	-----	-----	-----
Subtotal primary non-ferrous metal products	1	-----	-----	1	-----
5429 smelted prod. nec	1	-----	-----	1	-----
Total food and farm products	7	-----	-----	-----	7
Subtotal other agricultural products	7	-----	-----	-----	7
6838 tallow, animal oils	7	-----	-----	-----	7
Total waste and scrap nec	58	-----	-----	-----	58
8900 waste and scrap nec	58	-----	-----	-----	58
Ton-miles (x1000)	11,760	723	4	7,696	3,336
Tons All Traffic (x1000)	2,857				
Ton-miles All Traffic (x1000)	11,760				

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 tons)

Year	Total	Year	Total
1981	1,164	1986	1,454
1982	943	1987	1,267
1983	1,106	1988	1,261
1984	1,885	1989	1,548
1985	1,419	1990	1,304

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Foreign		Canadian	Domestic				
		Imports	Exports	Imports	Total	Lakewise		Internal	
					Receipts	Shipments	Inbound Upbound	Outbound Downbnd	
Total, all commodities	1,304	33	9	202	1,060	292	3	351	414
Total coal	6	-----	-----	6	-----	-----	-----	-----	-----
1100 coal lignite	6	-----	-----	6	-----	-----	-----	-----	-----
Total petroleum and petroleum products	61	-----	-----	59	3	-----	-----	3	-----
Subtotal petroleum products	61	-----	-----	59	3	-----	-----	3	-----
2350 lube oil & greases	19	-----	-----	19	-----	-----	-----	-----	-----
2429 naphtha & solvents	5	-----	-----	2	3	-----	-----	3	-----
2430 asphalt, tar & pitch	37	-----	-----	37	-----	-----	-----	-----	-----
Total chemicals and related products	427	2	-----	126	299	-----	-----	115	184
Subtotal other chemicals and related products	427	2	-----	126	299	-----	-----	115	184
3212 benzene & toluene	20	-----	-----	-----	20	-----	-----	-----	20
3219 other hydrocarbons	67	1	-----	26	40	-----	-----	30	10
3220 alcohols	222	-----	-----	26	197	-----	-----	54	143
3230 carboxylic acids	1	-----	-----	-----	1	-----	-----	1	-----
3260 organic comp. nec	18	-----	-----	2	16	-----	-----	5	11
3272 sulphuric acid	11	-----	-----	11	-----	-----	-----	-----	-----
3274 sodium hydroxide	77	-----	-----	59	18	-----	-----	18	-----

LAKE CALUMET, IL (INCLUDED IN PORT OF CHICAGO)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian Imports	Domestic			
		Imports	Exports		Total	Lakewise		Internal
				Receipts		Shipments	Inbound Upbound	Outbound Downbnd
3282 pigments & paints	1	1						
3286 plastics	2			2				
3299 chem. products nec	8				8			8
Total crude materials, inedible except fuels	146	0	8	12	125	13	3	26 83
Subtotal forest products, wood and chips	0	0						
4190 forest products nec	0	0						
Subtotal soil, sand, gravel, rock and stone	5				5			5
4331 sand & gravel	5				5			5
Subtotal iron ore and scrap	108			12	96		3	9 83
4410 iron ore	3				3			3
4420 iron & steel scrap	105			12	93		3	9 81
Subtotal sulphur, clay and salt	8		8					
4782 clay & refrac. mat.	8		8					
Subtotal other non-metal. min.	25				25	13		12
4900 non-metal. min. nec	25				25	13		12
Total primary manufactured goods	535	31			504	279		189 36
Subtotal lime, cement and glass	242				242	225		16 1
5210 lime	16				16			16
5220 cement & concrete	225				225	225		
5290 misc. mineral prod.	1				1			1
Subtotal primary iron and steel products	263	31			232	54		143 35
5315 ferro alloys	28				28			1 27
5320 i&s primary forms	10				10	1		9
5330 i&s plates & sheets	35	28			7			7
5360 i&s bars & shapes	35	3			32			32
5370 i&s pipe & tube	6	0			6			5 1

LAKE CALUMET, IL (INCLUDED IN PORT OF CHICAGO)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian	Domestic				
		Imports	Exports	Imports	Total	Lakewise		Internal	
					Receipts	Shipments	Inbound Upbound	Outbound Downbnd	
5390 primary i&s nec	149				149	53		97	
Subtotal primary non-ferrous metal products	30				30			30	
5480 fab. metal products	30				30			30	
Subtotal primary wood products	0	0							
5540 primary wood prod.	0	0							
Total food and farm products	129	0			129			19	110
Subtotal grain	76				76				76
6241 wheat	10				10				10
6344 corn	66				66				66
Subtotal oilseeds	30				30				30
6522 soybeans	30				30				30
Subtotal other agricultural products	23	0			23			19	4
6838 tallow, animal oils	4				4				4
6861 sugar	19				19			19	
6889 food products nec	0	0							
Total all manufactured equipment, machinery and products	0	0	0						
7120 electrical machinery	0	0							
7230 ships & boats	0		0						
7600 rubber & plastic pr.	0	0							
7900 manufac. prod. nec	0	0							
Ton-miles (x1000)	1,209	33	9	202	965	292	3	320	350
Tons All Traffic (x1000)									1,304
Ton-miles All Traffic (x1000)									1,209

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 tons)

Year	Total	Year	Total
1981	17,631	1986	11,481
1982	12,778	1987	9,524
1983	12,454	1988	11,889
1984	13,740	1989	12,973
1985	12,800	1990	11,689

Freight Traffic, 1990
(thousand tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through Upbound	Downbnd	Imports	Exports	Through Downbnd
Total, all commodities	2,683	924	349	9	33	854	313	202
Total coal	185	-----	8	-----	-----	29	142	6
1100 coal lignite	81	-----	8	-----	-----	29	39	6
1200 coal coke	104	-----	-----	-----	-----	-----	104	-----
Total petroleum and petroleum products	418	-----	152	-----	-----	92	115	59
Subtotal petroleum products	418	-----	152	-----	-----	92	115	59
2330 distillate fuel oil	11	-----	-----	-----	-----	7	3	-----
2340 residual fuel oil	3	-----	-----	-----	-----	3	-----	-----
2350 lube oil & greases	29	-----	0	-----	-----	10	-----	19
2429 naphtha & solvents	15	-----	-----	-----	-----	12	-----	2
2430 asphalt, tar & pitch	97	-----	-----	-----	-----	60	-----	37
2540 petroleum coke	264	-----	152	-----	-----	-----	112	-----
Total chemicals and related products	295	15	34	-----	2	102	15	126
Subtotal fertilizers	102	-----	33	-----	-----	54	15	-----
3110 nitrogenous fert.	15	-----	-----	-----	-----	-----	15	-----
3130 potassic fert.	54	-----	-----	-----	-----	54	-----	-----
3190 fert. & mixes nec	33	-----	33	-----	-----	-----	-----	-----
Subtotal other chemicals and related products	193	15	1	-----	2	48	1	126
3212 benzene & toluene	1	-----	-----	-----	-----	1	-----	-----
3219 other hydrocarbons	68	3	0	-----	1	37	-----	26
3220 alcohols	34	-----	-----	-----	-----	9	-----	26
3230 carboxylic acids	0	0	0	-----	-----	-----	-----	-----
3240 nitrogen func. comp.	1	0	0	-----	-----	0	1	-----
3250 organo-inorgan. comp	0	-----	0	-----	-----	-----	-----	-----
3260 organic comp. nec	2	-----	-----	-----	-----	-----	-----	2
3272 sulphuric acid	11	-----	-----	-----	-----	-----	-----	11
3274 sodium hydroxide	59	-----	-----	-----	-----	-----	-----	59
3275 inorg. elem., oxides, & halogen salts	8	8	-----	-----	-----	-----	-----	-----

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through Upbound	Through Downbnd	Imports	Exports	Through Downbnd
3276 metallic salts	0	0						
3282 pigments & paints	3	3	0		1			
3283 coloring mat. nec	0	0						
3284 medicines	0	0	0					
3285 perfumes & cleansers	0	0	0					
3286 plastics	3	0	0			1	0	2
3291 pesticides	0		0					
3292 starches,gluten,glue	0	0						
3293 explosives	0		0					
3297 chemical additives	0	0	0					
3299 chem. products nec	0	0	0					
Total crude materials, inedible except fuels	797	20	130	8	0	616	12	12
Subtotal forest products, wood and chips	0	0			0			
4190 forest products nec	0	0			0			
Subtotal soil, sand, gravel, rock and stone	12	0	0				12	
4310 building stone	0	0					12	
4331 sand & gravel	12		0					
Subtotal iron ore and scrap	532		73			446		12
4410 iron ore	446					446		12
4420 iron & steel scrap	85		73					
Subtotal non-ferrous ores and scrap	19	19						
4670 manganese ore	19	19						
Subtotal sulphur, clay and salt	65		57	8				
4782 clay & refrac. mat.	65		57	8				
Subtotal slag	106					106		
4860 slag	106					106		
Subtotal other non-metal. min.	64	0	0			64		
4900 non-metal. min. nec	64	0	0			64		
Total primary manufactured goods	940	877	24		31	8	0	
Subtotal paper products	0	0	0					
5120 paper & paperboard	0	0						
5190 paper products nec	0	0	0					
Subtotal lime, cement and glass	3	3	0				0	
5240 glass & glass prod.	0	0	0				0	
5290 misc. mineral prod.	3	3	0					
Subtotal primary iron and steel products	931	869	24		31	8	0	
5312 pig iron	23	23						
5315 ferro alloys	37	29				8		
5320 i&s primary forms	2	2						

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through Upbound	Downbnd	Imports	Exports	Through Downbnd
5330 i&s plates & sheets	767	716	24		28			
5360 i&s bars & shapes	87	85			3			
5370 i&s pipe & tube	11	11			0			
5390 primary i&s nec	4	4				0		
Subtotal primary non-ferrous metal products	6	6	0			0		
5421 copper	0	0	0					
5422 aluminum	0	0						
5429 smelted prod. nec	3	3						
5480 fab. metal products	2	2	0			0		
Subtotal primary wood products	0				0			
5540 primary wood prod.	0				0			
Total food and farm products	36	1	0		0	6	28	
Subtotal grain	34	0				6	28	
6344 corn	28						28	
6442 rice	0	0						
6445 oats	6					6		
Subtotal vegetable products	0	0	0					
6653 vegetable oils	0	0						
6654 vegetables & prod.	0	0	0					
Subtotal processed grain and animal feed	1	0	0					
6746 wheat flour	0		0					
6747 grain mill products	0	0	0					
6782 animal feed, prep.	0	0						
Subtotal other agricultural products	1	0	0		0		0	
6817 meat, prepared	0	0						
6822 dairy products	0	0						
6835 fish, prepared	0	0						
6839 animals & prod. nec	0	0						
6858 fruit juices	0	0					0	
6885 alcoholic beverages	0	0						
6889 food products nec	0	0			0			
6899 farm products nec	0	0	0					
Total all manufactured equipment, machinery and products	13	10	1	0	0	0	1	
7110 machinery (not elec)	7	6	1			0	0	
7120 electrical machinery	1	1	0		0		0	
7210 vehicles & parts	2	2	0				0	
7220 aircraft & parts	0	0						
7230 ships & boats	0		0	0				
7300 ordnance & access.	0		0					
7400 manufac. wood prod.	0	0						
7500 textile products	0	0	0				0	
7600 rubber & plastic pr.	0	0	0		0			
7900 manufac. prod. nec	1	1	0		0		0	

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through		Imports	Exports	Through Downbnd
				Upbound	Downbnd			
Total unknown or not elsewhere classified	0	0	-----	-----	-----	-----	-----	
9900 unknown or nec	0	0	-----	-----	-----	-----	-----	
Ton-miles (x1000) Foreign & Canadian	3,904	924	349	51	199	854	313	1,214

Commodity	Total	Lakewise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Total, all commodities	3,049	1,905	849	3	292
Total coal	685	-----	685	-----	-----
1100 coal lignite	675	-----	675	-----	-----
1200 coal coke	10	-----	10	-----	-----
Total petroleum and petroleum products	154	28	125	-----	-----
Subtotal petroleum products	154	28	125	-----	-----
2330 distillate fuel oil	51	15	36	-----	-----
2340 residual fuel oil	20	14	6	-----	-----
2540 petroleum coke	83	-----	83	-----	-----
Total crude materials, inedible except fuels	1,823	1,770	36	3	13
Subtotal soil, sand, gravel, rock and stone	1,039	1,039	-----	-----	-----
4322 limestone	1,023	1,023	-----	-----	-----
4331 sand & gravel	17	17	-----	-----	-----
Subtotal iron ore and scrap	719	705	11	3	-----
4410 iron ore	693	693	-----	-----	-----
4420 iron & steel scrap	26	13	11	3	-----
Subtotal slag	25	-----	25	-----	-----
4860 slag	25	-----	25	-----	-----
Subtotal other non-metal. min.	39	26	-----	-----	13
4900 non-metal. min. nec	39	26	-----	-----	13
Total primary manufactured goods	385	106	-----	-----	279
Subtotal lime, cement and glass	321	96	-----	-----	225
5220 cement & concrete	321	96	-----	-----	225
Subtotal primary iron and steel products	64	10	-----	-----	54
5315 ferro alloys	5	5	-----	-----	-----
5320 i&s primary forms	1	-----	-----	-----	1
5390 primary i&s nec	57	4	-----	-----	53

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Lakewise			
		Receipts	Shipments	Through	
				Upbound	Downbnd
Total all manufactured equipment, machinery and products	3	-----	3	-----	-----
7110 machinery (not elec)	3	-----	3	-----	-----
Ton-miles (x1000) Lakewise	12,779	6,885	4,125	17	1,752

Commodity	Total	Internal				
		Inbound Upbound	Outbound Downbnd	Through		Intra Upbound
				Upbound	Downbnd	
Total, all commodities	5,956	2,770	915	1,010	1,230	30
Total coal	1,989	1,653	49	160	103	24
1100 coal lignite	1,460	1,361	-----	5	70	24
1200 coal coke	529	291	49	156	33	-----
Total petroleum and petroleum products	316	20	34	98	161	3
Subtotal petroleum products	316	20	34	98	161	3
2211 gasoline	56	1	-----	7	48	-----
2330 distillate fuel oil	75	-----	3	2	67	2
2340 residual fuel oil	30	4	6	9	11	0
2350 lube oil & greases	22	-----	-----	-----	22	-----
2429 naphtha & solvents	40	-----	21	19	-----	-----
2430 asphalt, tar & pitch	23	6	-----	4	13	-----
2540 petroleum coke	70	9	4	57	-----	-----
Total chemicals and related products	425	74	167	163	20	-----
Subtotal fertilizers	212	52	2	139	20	-----
3110 nitrogenous fert.	171	39	-----	112	20	-----
3120 phosphatic fert.	15	6	-----	9	-----	-----
3130 potassic fert.	6	6	-----	-----	-----	-----
3190 fert. & mixes nec	21	1	2	18	-----	-----
Subtotal other chemicals and related products	212	22	165	25	-----	-----
3211 acyclic hydrocarbons	16	-----	16	-----	-----	-----
3212 benzene & toluene	33	-----	33	-----	-----	-----
3219 other hydrocarbons	138	7	116	15	-----	-----
3220 alcohols	3	3	-----	-----	-----	-----
3274 sodium hydroxide	9	-----	-----	9	-----	-----
3279 inorganic chem. nec	6	6	-----	-----	-----	-----
3286 plastics	7	7	-----	-----	-----	-----
Total crude materials, inedible except fuels	1,558	458	228	560	313	-----
Subtotal forest products, wood and chips	3	3	-----	-----	-----	-----
4189 lumber	3	3	-----	-----	-----	-----

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Internal				
		Inbound	Outbound	Through		Intra
		Upbound	Downbnd	Upbound	Downbnd	Upbound
Subtotal soil, sand, gravel, rock and stone	7	3	4	-----	-----	-----
4310 building stone	1	1	-----	-----	-----	-----
4322 limestone	4	-----	4	-----	-----	-----
4331 sand & gravel	2	2	-----	-----	-----	-----
Subtotal iron ore and scrap	813	19	207	339	249	-----
4410 iron ore	347	14	3	330	-----	-----
4420 iron & steel scrap	467	5	204	9	249	-----
Subtotal marine shells	9	-----	-----	9	-----	-----
4515 marine shells	9	-----	-----	9	-----	-----
Subtotal non-ferrous ores and scrap	123	35	-----	88	-----	-----
4650 aluminum ore	78	1	-----	77	-----	-----
4670 manganese ore	32	20	-----	12	-----	-----
4690 non-ferrous ores nec	13	13	-----	-----	-----	-----
Subtotal sulphur, clay and salt	5	-----	-----	5	-----	-----
4782 clay & refrac. mat.	5	-----	-----	5	-----	-----
Subtotal slag	187	4	9	109	65	-----
4860 slag	187	4	9	109	65	-----
Subtotal other non-metal. min.	411	395	8	9	-----	-----
4900 non-metal. min. nec	411	395	8	9	-----	-----
Total primary manufactured goods	1,133	537	40	21	532	3
Subtotal lime, cement and glass	149	146	3	-----	-----	-----
5210 lime	2	-----	2	-----	-----	-----
5220 cement & concrete	147	146	2	-----	-----	-----
Subtotal primary iron and steel products	818	377	28	19	391	3
5312 pig iron	65	62	-----	3	-----	-----
5315 ferro alloys	189	171	2	13	1	2
5320 i&s primary forms	82	25	-----	2	55	-----
5330 i&s plates & sheets	80	2	1	-----	77	-----
5360 i&s bars & shapes	93	76	5	-----	13	-----
5370 i&s pipe & tube	4	2	2	-----	-----	-----
5390 primary i&s nec	304	40	17	2	244	1
Subtotal primary non-ferrous metal products	166	15	9	2	141	-----
5422 aluminum	3	3	-----	-----	-----	-----
5429 smelted prod. nec	10	5	-----	-----	5	-----
5480 fab. metal products	153	7	9	2	136	-----
Total food and farm products	497	29	368	-----	101	-----
Subtotal grain	288	5	200	-----	83	-----
6241 wheat	33	2	7	-----	24	-----
6344 corn	245	-----	185	-----	59	-----
6445 oats	10	3	7	-----	-----	-----
Subtotal oilseeds	171	-----	157	-----	13	-----
6522 soybeans	171	-----	157	-----	13	-----
Subtotal processed grain and animal feed	14	-----	10	-----	4	-----
6746 wheat flour	4	-----	4	-----	-----	-----
6782 animal feed, prep.	10	-----	6	-----	4	-----

CALUMET HARBOR AND RIVER, IL AND IN (INCLUDED IN PORT OF CHICAGO)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Internal				
		Inbound	Outbound	Through		Intra
		Upbound	Downbnd	Upbound	Downbnd	Upbound
Subtotal other agricultural products	25	24	1	-----	-----	-----
6861 sugar	8	8	-----	-----	-----	-----
6865 molasses	15	15	-----	-----	-----	-----
6889 food products nec	1	-----	1	-----	-----	-----
Total all manufactured equipment, machinery and products	37	1	30	7	-----	-----
7110 machinery (not elec)	37	1	30	7	-----	-----
Ton-miles (x1000)	22,475					
Internal		7,026	1,924	6,059	7,382	84
Tons All Traffic (x1000)	11,689					
Ton-miles All Traffic (x1000)	39,158					

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 tons)

Year	Total	Year	Total
1981	31,599	1986	24,330
1982	26,820	1987	20,705
1983	24,454	1988	22,894
1984	23,813	1989	23,446
1985	22,610	1990	22,541

Freight Traffic, 1990
 (thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
Total, all commodities	2,683	957	357	1,056	313
Total coal	185	-----	8	34	142
1100 coal lignite	81	-----	8	34	39
1200 coal coke	104	-----	-----	-----	104
Total petroleum and petroleum products	418	-----	152	151	115
Subtotal petroleum products	418	-----	152	151	115
2330 distillate fuel oil	11	-----	-----	7	3
2340 residual fuel oil	3	-----	-----	3	-----

PORT OF CHICAGO, IL
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
2350 lube oil & greases	29		0	29	
2429 naphtha & solvents	15			15	
2430 asphalt, tar & pitch	97			97	
2540 petroleum coke	264		152		112
Total chemicals and related products	295	17	34	228	15
Subtotal fertilizers	102		33	54	15
3110 nitrogenous fert.	15				15
3130 potassic fert.	54			54	
3190 fert. & mixes nec	33		33		
Subtotal other chemicals and related products	193	17	1	174	1
3212 benzene & toluene	1			1	
3219 other hydrocarbons	68	4	0	64	
3220 alcohols	34			34	
3230 carboxylic acids	0	0	0		
3240 nitrogen func. comp.	1	0	0	0	1
3250 organo-inorgan. comp	0		0		
3260 organic comp. nec	2			2	
3272 sulphuric acid	11			11	
3274 sodium hydroxide	59			59	
3275 inorg. elem.,oxides, & halogen salts	8	8			
3276 metallic salts	0	0			
3282 pigments & paints	3	3	0		
3283 coloring mat. nec	0	0			
3284 medicines	0	0	0		
3285 perfumes & cleansers	0	0	0		
3286 plastics	3	0	0	2	0
3291 pesticides	0		0		
3292 starches,gluten,glue	0	0			
3293 explosives	0		0		
3297 chemical additives	0	0	0		
3299 chem. products nec	0	0	0		
Total crude materials, inedible except fuels	797	20	138	628	12
Subtotal forest products, wood and chips	0	0			
4190 forest products nec	0	0			
Subtotal soil, sand, gravel, rock and stone	12	0	0		12
4310 building stone	0	0			
4331 sand & gravel	12		0		12
Subtotal iron ore and scrap	532		73	458	
4410 iron ore	446			446	
4420 iron & steel scrap	85		73	12	
Subtotal non-ferrous ores and scrap	19	19			
4670 manganese ore	19	19			
Subtotal sulphur, clay and salt	65		65		
4782 clay & refrac. mat.	65		65		
Subtotal slag	106			106	
4860 slag	106			106	
Subtotal other non-metal. min.	64	0	0	64	
4900 non-metal. min. nec	64	0	0	64	

PORT OF CHICAGO, IL
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
Total primary manufactured goods	940	908	24	8	0
Subtotal paper products	0	0	0		
5120 paper & paperboard	0	0			
5190 paper products nec	0	0	0		
Subtotal lime, cement and glass	3	3	0		0
5240 glass & glass prod.	0	0	0		
5290 misc. mineral prod.	3	3	0		0
Subtotal primary iron and steel products	931	900	24	8	0
5312 pig iron	23	23			
5315 ferro alloys	37	29		8	
5320 i&s primary forms	2	2			
5330 i&s plates & sheets	767	744	24		
5360 i&s bars & shapes	87	87			
5370 i&s pipe & tube	11	11			
5390 primary i&s nec	4	4			0
Subtotal primary non-ferrous metal products	6	6	0	0	
5421 copper	0	0	0		
5422 aluminum	0	0			
5429 smelted prod. nec	3	3			
5480 fab. metal products	2	2	0	0	
Subtotal primary wood products	0	0			
5540 primary wood prod.	0	0			
Total food and farm products	36	1	0	6	28
Subtotal grain	34	0		6	28
6344 corn	28				28
6442 rice	0	0			
6445 oats	6			6	
Subtotal vegetable products	0	0	0		
6653 vegetable oils	0	0			
6654 vegetables & prod.	0	0	0		
Subtotal processed grain and animal feed	1	0	0		
6746 wheat flour	0		0		
6747 grain mill products	0	0	0		
6782 animal feed, prep.	0	0			
Subtotal other agricultural products	1	1	0		0
6817 meat, prepared	0	0			
6822 dairy products	0	0			
6835 fish, prepared	0	0			
6839 animals & prod. nec	0	0			
6858 fruit juices	0	0			0
6885 alcoholic beverages	0	0			
6889 food products nec	0	0			
6899 farm products nec	0	0	0		
Total all manufactured equipment, machinery and products	13	10	2	0	1
7110 machinery (not elec)	7	6	1	0	0
7120 electrical machinery	1	1	0		0
7210 vehicles & parts	2	2	0		0
7220 aircraft & parts	0	0			

PORT OF CHICAGO, IL
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
7230 ships & boats	0	-----	0	-----	-----
7300 ordnance & access.	0	-----	0	-----	-----
7400 manufac. wood prod.	0	0	-----	-----	-----
7500 textile products	0	0	0	-----	0
7600 rubber & plastic pr.	0	0	0	-----	-----
7900 manufac. prod. nec	1	1	0	-----	0
Total unknown or not elsewhere classified	0	0	-----	-----	-----
9900 unknown or nec	0	0	-----	-----	-----

Commodity	Total	Domestic					
		Coastwise Shipments	Lakewise		Internal		
			Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	19,858	4	2,197	852	10,141	3,813	2,851
Total coal	4,487	-----	-----	685	3,292	436	74
1100 coal lignite	3,686	-----	-----	675	2,987	-----	24
1200 coal coke	801	-----	-----	10	305	436	50
Total petroleum and petroleum products	3,449	-----	28	125	1,425	1,069	802
Subtotal crude petroleum	12	-----	-----	-----	-----	12	-----
2100 crude petroleum	12	-----	-----	-----	-----	12	-----
Subtotal petroleum products	3,437	-----	28	125	1,425	1,057	802
2211 gasoline	325	-----	-----	-----	125	68	133
2221 kerosene	8	-----	-----	-----	8	-----	-----
2330 distillate fuel oil	652	-----	15	36	136	255	210
2340 residual fuel oil	860	-----	14	6	305	410	126
2350 lube oil & greases	260	-----	-----	-----	260	-----	-----
2429 naphtha & solvents	265	-----	-----	-----	163	60	42
2430 asphalt, tar & pitch	890	-----	-----	-----	361	251	278
2540 petroleum coke	172	-----	-----	83	62	14	13
2990 petro. products nec	4	-----	-----	-----	4	-----	-----
Total chemicals and related products	1,906	-----	-----	-----	1,338	353	214
Subtotal fertilizers	84	-----	-----	-----	69	15	-----
3110 nitrogenous fert.	66	-----	-----	-----	52	14	-----
3120 phosphatic fert.	8	-----	-----	-----	8	-----	-----
3130 potassic fert.	7	-----	-----	-----	7	-----	-----
3190 fert. & mixes nec	3	-----	-----	-----	1	2	-----
Subtotal other chemicals and related products	1,822	-----	-----	-----	1,270	338	214
3211 acyclic hydrocarbons	18	-----	-----	-----	1	16	-----
3212 benzene & toluene	138	-----	-----	-----	18	76	43
3219 other hydrocarbons	305	-----	-----	-----	129	131	44
3220 alcohols	559	-----	-----	-----	410	27	123

PORT OF CHICAGO, IL
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Domestic						
		Coastwise	Lakewise		Internal			
		Shipments	Receipts	Shipments	Receipts	Shipments	Intraport	
3230	carboxylic acids	14				14		
3260	organic comp. nec	59				47	9	3
3274	sodium hydroxide	373				370	1	1
3275	inorg. elem.,oxides, & halogen salts	48				43	4	
3276	metallic salts	235				191	44	
3279	inorganic chem. nec	6				6		
3284	medicines	3					3	
3286	plastics	7				7		
3297	chemical additives	4					4	
3298	wood & resin chem.	1					1	
3299	chem. products nec	55				34	21	
Total crude materials, inedible except fuels		6,617		1,784	39	2,223	920	1,651
Subtotal forest products, wood and chips		3				3		
4189	lumber	3				3		
Subtotal pulp and waste paper		2				2		
4225	pulp & waste paper	2				2		
Subtotal soil, sand, gravel, rock and stone		4,281		1,039		1,201	393	1,649
4310	building stone	1				1		
4322	limestone	1,037		1,023		11	4	
4331	sand & gravel	3,243		17		1,189	389	1,649
Subtotal iron ore and scrap		1,245		705	14	31	491	3
4410	iron ore	712		693		13	3	3
4420	iron & steel scrap	533		13	14	18	489	
Subtotal non-ferrous ores and scrap		38				38		
4650	aluminum ore	1				1		
4670	manganese ore	23				23		
4690	non-ferrous ores nec	13				13		
Subtotal sulphur, clay and salt		6				6		
4782	clay & refrac. mat.	6				6		
Subtotal slag		42			25	7	10	
4860	slag	42			25	7	10	
Subtotal other non-metal. min.		1,000		39		936	26	
4900	non-metal. min. nec	1,000		39		936	26	
Total primary manufactured goods		2,275		385		1,761	97	31
Subtotal lime, cement and glass		1,330		321		1,005	4	
5210	lime	19				17	2	
5220	cement & concrete	1,309		321		986	2	
5290	misc. mineral prod.	2				1	1	
Subtotal primary iron and steel products		782		64		604	83	31
5312	pig iron	96				96		
5315	ferro alloys	183		5		146	2	29

PORT OF CHICAGO, IL
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Domestic					
		Coastwise	Lakewise		Internal		
		Shipments	Receipts	Shipments	Receipts	Shipments	Intraport
5320 i&s primary forms	80		1		34	45	
5330 i&s plates & sheets	16				8	9	
5360 i&s bars & shapes	151				144	6	1
5370 i&s pipe & tube	15				11	4	0
5390 primary i&s nec	240		57		164	17	1
Subtotal primary non-ferrous metal products	161				150	10	
5422 aluminum	3				3		
5429 smelted prod. nec	9				9		
5480 fab. metal products	149				139	10	
Subtotal primary wood products	2				2		
5540 primary wood prod.	2				2		
Total food and farm products	1,005				99	906	
Subtotal grain	595				5	590	
6241 wheat	44				2	42	
6344 corn	541					541	
6445 oats	10				3	7	
Subtotal oilseeds	293					293	
6522 soybeans	293					293	
Subtotal processed grain and animal feed	10					10	
6746 wheat flour	4					4	
6782 animal feed, prep.	6					6	
Subtotal other agricultural products	107				94	14	
6838 tallow, animal oils	13					13	
6861 sugar	61				61		
6865 molasses	32				32		
6889 food products nec	1					1	
Total all manufactured equipment, machinery and products	41	4		3	3	31	
7110 machinery (not elec)	41	4		3	3	31	
Total waste and scrap nec	78						78
8900 waste and scrap nec	78						78

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 tons)

Year	Total	Year	Total
1981	18,375	1986	14,014
1982	12,304	1987	13,335
1983	14,475	1988	16,643
1984	14,569	1989	15,055
1985	13,549	1990	14,673

Freight Traffic, 1990
(thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports		Imports	Exports
Total, all commodities	260	18		241	1
Total coal	198	-----		198	-----
1100 coal lignite	198	-----		198	-----
Total petroleum and petroleum products	14	-----		14	-----
Subtotal petroleum products	14	-----		14	-----
2340 residual fuel oil	14	-----		14	-----
Total chemicals and related products	0	0	-----	-----	-----
Subtotal other chemicals and related products	0	0	-----	-----	-----
3284 medicines	0	0	-----	-----	-----
Total crude materials, inedible except fuels	46	17		28	1
Subtotal iron ore and scrap	28	-----		28	-----
4410 iron ore	28	-----		28	-----
Subtotal non-ferrous ores and scrap	17	17	-----	-----	-----
4670 manganese ore	17	17	-----	-----	-----
Subtotal slag	1	-----		0	1
4860 slag	1	-----		0	1
Total primary manufactured goods	1	1	-----	-----	-----
Subtotal primary iron and steel products	0	0	-----	-----	-----
5330 i&s plates & sheets	0	0	-----	-----	-----
5370 i&s pipe & tube	0	0	-----	-----	-----
Subtotal primary non-ferrous metal products	1	1	-----	-----	-----
5422 aluminum	0	0	-----	-----	-----
5480 fab. metal products	1	1	-----	-----	-----
Total food and farm products	0	0	-----	-----	-----
Subtotal vegetable products	0	0	-----	-----	-----
6653 vegetable oils	0	0	-----	-----	-----

INDIANA HARBOR, IN
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
Total all manufactured equipment, machinery and products	0	0	-----	-----	-----
7110 machinery (not elec)	0	0	-----	-----	-----
7230 ships & boats	0	0	-----	-----	-----
7600 rubber & plastic pr.	0	0	-----	-----	-----

Commodity	Total	Domestic				
		Lakewise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	14,413	11,349	1,745	357	927	35
Total coal	120	-----	-----	38	82	-----
1100 coal lignite	70	-----	-----	-----	70	-----
1200 coal coke	50	-----	-----	38	12	-----
Total petroleum and petroleum products	2,302	38	1,536	171	526	32
Subtotal petroleum products	2,302	38	1,536	171	526	32
2211 gasoline	677	5	605	11	56	-----
2330 distillate fuel oil	541	33	288	49	167	6
2340 residual fuel oil	248	-----	41	68	112	27
2350 lube oil & greases	30	-----	-----	-----	30	-----
2429 naphtha & solvents	19	-----	-----	19	-----	-----
2430 asphalt, tar & pitch	668	-----	520	7	142	-----
2540 petroleum coke	120	-----	83	18	19	-----
Total chemicals and related products	4	-----	-----	-----	4	-----
Subtotal fertilizers	4	-----	-----	-----	4	-----
3110 nitrogenous fert.	4	-----	-----	-----	4	-----
Total crude materials, inedible except fuels	11,921	11,311	209	134	263	3
Subtotal soil, sand, gravel, rock and stone	884	884	-----	-----	-----	-----
4322 limestone	774	774	-----	-----	-----	-----
4323 gypsum	110	110	-----	-----	-----	-----
Subtotal iron ore and scrap	10,634	10,321	13	79	218	3
4410 iron ore	10,382	10,307	-----	75	-----	-----
4420 iron & steel scrap	252	14	13	4	218	3
Subtotal sulphur, clay and salt	106	106	-----	-----	-----	-----
4782 clay & refrac. mat.	106	106	-----	-----	-----	-----
Subtotal slag	291	-----	196	49	45	-----
4860 slag	291	-----	196	49	45	-----
Subtotal other non-metal. min.	6	-----	-----	6	-----	-----
4900 non-metal. min. nec	6	-----	-----	6	-----	-----

INDIANA HARBOR, IN
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Domestic				
		Lakewise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total primary manufactured goods	66	-----	-----	14	52	-----
Subtotal primary Iron and steel products	34	-----	-----	12	21	-----
5315 ferro alloys	9	-----	-----	9	-----	-----
5320 i&s primary forms	3	-----	-----	2	1	-----
5330 i&s plates & sheets	1	-----	-----	-----	1	-----
5360 i&s bars & shapes	1	-----	-----	-----	1	-----
5390 primary i&s nec	19	-----	-----	2	17	-----
Subtotal primary non-ferrous metal products	32	-----	-----	2	30	-----
5480 fab. metal products	32	-----	-----	2	30	-----
Total all manufactured equipment, machinery and products	0	-----	-----	0	-----	-----
7110 machinery (not elec)	0	-----	-----	0	-----	-----

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 tons)

Year	Total	Year	Total
1981	7,367	1986	6,750
1982	5,458	1987	7,093
1983	6,332	1988	7,468
1984	8,791	1989	8,695
1985	8,179	1990	9,524

Freight Traffic, 1990
(thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
Total, all commodities	2,203	178	382	1,557	86
Total coal	143	-----	-----	58	85
1100 coal lignite	58	-----	-----	58	-----
1200 coal coke	85	-----	-----	-----	85
Total petroleum and petroleum products	53	-----	45	8	-----
Subtotal petroleum products	53	-----	45	8	-----
2430 asphalt, tar & pitch	8	-----	-----	8	-----
2540 petroleum coke	45	-----	45	-----	-----

BURNS WATERWAY HARBOR, IN
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
Total chemicals and related products	183	0	-----	183	0
Subtotal fertilizers	183	-----	-----	183	-----
3110 nitrogenous fert.	2	-----	-----	2	-----
3130 potassic fert.	180	-----	-----	180	-----
Subtotal other chemicals and related products	0	0	-----	-----	0
3230 carboxylic acids	0	0	-----	-----	0
3279 inorganic chem. nec	0	-----	-----	-----	0
Total crude materials, inedible except fuels	1,421	45	86	1,290	0
Subtotal iron ore and scrap	1,369	29	78	1,262	-----
4410 iron ore	1,291	29	-----	1,262	-----
4420 iron & steel scrap	78	-----	78	-----	-----
Subtotal non-ferrous ores and scrap	21	17	5	-----	-----
4650 aluminum ore	17	17	-----	-----	-----
4680 non-ferrous scrap	5	-----	5	-----	-----
Subtotal sulphur, clay and salt	0	-----	-----	-----	0
4782 clay & refrac. mat.	0	-----	-----	-----	0
Subtotal slag	3	-----	3	-----	-----
4860 slag	3	-----	3	-----	-----
Subtotal other non-metal. min.	28	-----	-----	28	-----
4900 non-metal. min. nec	28	-----	-----	28	-----
Total primary manufactured goods	325	130	187	8	-----
Subtotal primary iron and steel products	325	130	187	8	-----
5312 pig iron	65	63	-----	2	-----
5315 ferro alloys	9	3	-----	5	-----
5320 i&s primary forms	38	38	-----	-----	-----
5330 i&s plates & sheets	211	25	187	-----	-----
5360 i&s bars & shapes	2	2	-----	-----	-----
5370 i&s pipe & tube	0	0	-----	-----	-----
Subtotal primary non-ferrous metal products	0	0	-----	-----	-----
5422 aluminum	0	0	-----	-----	-----
5480 fab. metal products	0	0	-----	-----	-----
Total food and farm products	70	-----	58	12	-----
Subtotal grain	70	-----	58	12	-----
6344 corn	58	-----	58	-----	-----
6445 oats	12	-----	-----	12	-----
Total all manufactured equipment, machinery and products	9	2	7	-----	0
7110 machinery (not elec)	9	2	7	-----	-----
7120 electrical machinery	0	0	-----	-----	-----
7210 vehicles & parts	0	-----	-----	-----	0
7500 textile products	0	0	-----	-----	-----
7600 rubber & plastic pr.	0	0	-----	-----	-----
7900 manufac. prod. nec	0	0	-----	-----	-----

BURNS WATERWAY HARBOR, IN
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
Total unknown or not elsewhere classified	0	-----	0	-----	-----
9900 unknown or nec	0	-----	0	-----	-----

Commodity	Total	Domestic				
		Lakewise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	7,321	6,348	106	413	453	1
Total coal	122	-----	-----	122	-----	-----
1100 coal lignite	5	-----	-----	5	-----	-----
1200 coal coke	118	-----	-----	118	-----	-----
Total petroleum and petroleum products	123	53	36	35	-----	-----
Subtotal petroleum products	123	53	36	35	-----	-----
2330 distillate fuel oil	52	52	-----	-----	-----	-----
2340 residual fuel oil	1	1	-----	-----	-----	-----
2540 petroleum coke	71	-----	36	35	-----	-----
Total chemicals and related products	159	-----	-----	159	-----	-----
Subtotal fertilizers	143	-----	-----	143	-----	-----
3110 nitrogenous fert.	117	-----	-----	117	-----	-----
3120 phosphatic fert.	9	-----	-----	9	-----	-----
3190 fert. & mixes nec	18	-----	-----	18	-----	-----
Subtotal other chemicals and related products	15	-----	-----	15	-----	-----
3219 other hydrocarbons	15	-----	-----	15	-----	-----
Total crude materials, inedible except fuels	6,447	6,295	32	87	33	-----
Subtotal soil, sand, gravel, rock and stone	381	381	-----	-----	-----	-----
4322 limestone	381	381	-----	-----	-----	-----
Subtotal iron ore and scrap	5,861	5,772	-----	58	30	-----
4410 iron ore	5,831	5,772	-----	58	-----	-----
4420 iron & steel scrap	30	-----	-----	-----	30	-----
Subtotal marine shells	9	-----	-----	9	-----	-----
4515 marine shells	9	-----	-----	9	-----	-----
Subtotal non-ferrous ores and scrap	12	-----	-----	12	-----	-----
4670 manganese ore	12	-----	-----	12	-----	-----
Subtotal sulphur, clay and salt	5	-----	-----	5	-----	-----
4782 clay & refrac. mat.	5	-----	-----	5	-----	-----
Subtotal slag	129	94	32	-----	3	-----
4860 slag	129	94	32	-----	3	-----
Subtotal other non-metal. min.	51	47	-----	3	-----	-----
4900 non-metal. min. nec	51	47	-----	3	-----	-----

BURNS WATERWAY HARBOR, IN
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Domestic				
		Lakewise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total primary manufactured goods	361	-----	37	4	319	1
Subtotal primary iron and steel products	276	-----	37	4	236	-----
5312 pig iron	3	-----	-----	3	-----	-----
5315 ferro alloys	8	-----	5	1	1	-----
5320 i&s primary forms	19	-----	-----	-----	19	-----
5330 i&s plates & sheets	39	-----	-----	-----	39	-----
5360 i&s bars & shapes	4	-----	-----	-----	4	-----
5390 primary i&s nec	203	-----	31	-----	172	-----
Subtotal primary non-ferrous metal products	85	-----	-----	-----	83	1
5480 fab. metal products	85	-----	-----	-----	83	1
Total food and farm products	101	-----	-----	-----	101	-----
Subtotal grain	83	-----	-----	-----	83	-----
6241 wheat	24	-----	-----	-----	24	-----
6344 corn	59	-----	-----	-----	59	-----
Subtotal oilseeds	13	-----	-----	-----	13	-----
6522 soybeans	13	-----	-----	-----	13	-----
Subtotal processed grain and animal feed	4	-----	-----	-----	4	-----
6782 animal feed, prep.	4	-----	-----	-----	4	-----
Total all manufactured equipment, machinery and products	7	-----	2	5	-----	-----
7110 machinery (not elec)	7	-----	2	5	-----	-----

Other Harbors and Waterways

Harbor or Waterway	Commodity	Tons Thousand
Project		
CHICAGO HARBOR, IL (INCLUDED IN PORT OF CHICAGO)	No Commerce Reported	
MICHIGAN CITY HARBOR, IN	No Commerce Reported	
Non-project		
BUFFINGTON HARBOR, IN	2330 distillate fuel oil 2340 residual fuel oil 4322 limestone 4650 aluminum ore 4860 slag	1 1 669 77 56
	Total Tons(x1000)	804
GARY HARBOR, IN	1200 coal coke 2330 distillate fuel oil 2340 residual fuel oil 2540 petroleum coke 3110 nitrogenous fert. 4322 limestone 4410 iron ore 4420 iron & steel scrap 4860 slag 5315 ferro alloys 5320 i&s primary forms 5330 i&s plates & sheets 5360 i&s bars & shapes 5390 primary i&s nec 5429 smelted prod. nec 5480 fab. metal products 6889 food products nec 7110 machinery (not elec) 7120 electrical machinery	21 4 15 5 16 419 8,569 5 354 3 36 37 8 81 5 23 0 5 0
	Total Tons(x1000)	9,605

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 tons)

Year	Total	Year	Total
1981	8,120	1986	4,702
1982	3,364	1987	9,333
1983	5,130	1988	11,433
1984	6,848	1989	12,156
1985	7,203	1990	7,737

Freight Traffic, 1990
 (thousand tons)

Commodity	Grand Total	Foreign Imports	Canadian		Domestic		
			Imports	Exports	Total	Lakewise	
					Receipts	Shipments	
Total, all commodities	7,737	2	65	2,205	5,465	1,659	3,806
Total coal	1,393	-----	-----	-----	1,393	1,393	-----
1100 coal lignite	1,393	-----	-----	-----	1,393	1,393	-----
Total petroleum and petroleum products	8	-----	8	-----	-----	-----	-----
Subtotal petroleum products	8	-----	8	-----	-----	-----	-----
2330 distillate fuel oil	8	-----	8	-----	-----	-----	-----
Total chemicals and related products	0	0	-----	-----	-----	-----	-----
Subtotal other chemicals and related products	0	0	-----	-----	-----	-----	-----
3220 alcohols	0	0	-----	-----	-----	-----	-----
3230 carboxylic acids	0	0	-----	-----	-----	-----	-----
3275 inorg. elem., oxides, & halogen salts	0	0	-----	-----	-----	-----	-----
3276 metallic salts	0	0	-----	-----	-----	-----	-----
3282 pigments & paints	0	0	-----	-----	-----	-----	-----
3284 medicines	0	0	-----	-----	-----	-----	-----
3285 perfumes & cleansers	0	0	-----	-----	-----	-----	-----
3286 plastics	0	0	-----	-----	-----	-----	-----
Total crude materials, inedible except fuels	6,334	-----	57	2,205	4,072	266	3,806
Subtotal soil, sand, gravel, rock and stone	404	-----	-----	131	273	266	7
4322 limestone	273	-----	-----	-----	273	266	7
4331 sand & gravel	131	-----	-----	131	-----	-----	-----
Subtotal iron ore and scrap	5,873	-----	-----	2,073	3,799	-----	3,799
4410 iron ore	5,873	-----	-----	2,073	3,799	-----	3,799
Subtotal other non-metal. min.	57	-----	57	-----	-----	-----	-----
4900 non-metal. min. nec	57	-----	57	-----	-----	-----	-----

PRESQUE ISLE HARBOR, MI
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign	Canadian		Domestic	
		Imports	Imports	Exports	Total	Lakewise
					Receipts	Shipments
Total primary manufactured goods	1	1	0	-----	-----	-----
Subtotal paper products	0	0	-----	-----	-----	-----
5120 paper & paperboard	0	0	-----	-----	-----	-----
Subtotal lime, cement and glass	0	0	0	-----	-----	-----
5240 glass & glass prod.	0	0	0	-----	-----	-----
5290 misc. mineral prod.	0	0	-----	-----	-----	-----
Subtotal primary Iron and steel products	0	0	-----	-----	-----	-----
5360 i&s bars & shapes	0	0	-----	-----	-----	-----
5370 i&s pipe & tube	0	0	-----	-----	-----	-----
5390 primary i&s nec	0	0	-----	-----	-----	-----
Subtotal primary non-ferrous metal products	0	0	-----	-----	-----	-----
5421 copper	0	0	-----	-----	-----	-----
5422 aluminum	0	0	-----	-----	-----	-----
5480 fab. metal products	0	0	-----	-----	-----	-----
Total food and farm products	0	0	-----	-----	-----	-----
Subtotal vegetable products	0	0	-----	-----	-----	-----
6654 vegetables & prod.	0	0	-----	-----	-----	-----
Subtotal processed grain and animal feed	0	0	-----	-----	-----	-----
6747 grain mill products	0	0	-----	-----	-----	-----
Subtotal other agricultural products	0	0	-----	-----	-----	-----
6839 animals & prod. nec	0	0	-----	-----	-----	-----
6872 cocoa beans	0	0	-----	-----	-----	-----
6885 alcoholic beverages	0	0	-----	-----	-----	-----
Total all manufactured equipment, machinery and products	1	1	0	-----	-----	-----
7110 machinery (not elec)	0	0	-----	-----	-----	-----
7120 electrical machinery	0	0	-----	-----	-----	-----
7210 vehicles & parts	0	0	-----	-----	-----	-----
7500 textile products	0	0	-----	-----	-----	-----
7600 rubber & plastic pr.	0	0	-----	-----	-----	-----
7900 manufac. prod. nec	0	0	0	-----	-----	-----
Total unknown or not elsewhere classified	0	0	-----	-----	-----	-----
9900 unknown or nec	0	0	-----	-----	-----	-----

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 tons)

Year	Total	Year	Total
1981	68	1986	357
1982	176	1987	617
1983	254	1988	729
1984	180	1989	770
1985	178	1990	626

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Lakewise Receipts
Total, all commodities	626	626
Total coal	163	163
1100 coal lignite	163	163
Total crude materials, inedible except fuels	464	464
Subtotal soil, sand, gravel, rock and stone	464	464
4322 limestone	464	464

DRUMMOND ISLAND, MI (INCLUDE 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 tons)

Year	Total	Year	Total
1981	1,479	1986	1,301
1982	815	1987	1,516
1983	1,130	1988	535
1984	1,091	1989	820
1985	1,187	1990	758

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Lakewise Shipments
Total, all commodities	758	758
Total crude materials, inedible except fuels	758	758
Subtotal soil, sand, gravel, rock and stone	758	758
4322 limestone	758	758

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 tons)

Year	Total	Year	Total
1981	76,378	1986	51,033
1982	43,463	1987	61,475
1983	52,527	1988	72,443
1984	60,325	1989	73,469
1985	57,081	1990	69,392

Freight Traffic, 1990
(thousand tons)

Commodity	Total	Foreign			Canadian		
		Imports	Through Upbound	Downbnd	Imports	Through Upbound	Downbnd
Total, all commodities	5,625	1	49	1,622	21	406	3,526
Total coal	304	-----	-----	-----	-----	-----	304
1100 coal lignite	304	-----	-----	-----	-----	-----	304

ST. MARYS RIVER, MI
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Foreign			Canadian		
		Imports	Through		Imports	Through	
			Upbound	Downbnd		Upbound	Downbnd
Total petroleum and petroleum products	163			109		50	5
Subtotal petroleum products	163			109		50	5
2211 gasoline	8					8	
2330 distillate fuel oil	16			3		8	5
2340 residual fuel oil	33					33	
2350 lube oil & greases	0			0			0
2540 petroleum coke	106			106			
Total chemicals and related products	875	0	0	1		1	873
Subtotal fertilizers	872						872
3110 nitrogenous fert.	70						70
3130 potassic fert.	802						802
3190 fert. & mixes nec	0						0
Subtotal other chemicals and related products	3	0	0	1		1	2
3220 alcohols	0		0				
3230 carboxylic acids	0	0	0				
3260 organic comp. nec	0			0			
3274 sodium hydroxide	0			0			
3275 inorg. elem.,oxides, & halogen salts	2		0				2
3276 metallic salts	0		0	0			
3282 pigments & paints	0		0				
3284 medicines	0		0				
3285 perfumes & cleansers	0		0	0			
3286 plastics	1		0	0			
3298 wood & resin chem.	1					1	
Total crude materials, inedible except fuels	700	1		3	21	258	417
Subtotal forest products, wood and chips	0						0
4170 wood in the rough	0						0
4189 lumber	0						0
Subtotal pulp and waste paper	0						0
4225 pulp & waste paper	0						0
Subtotal soil, sand, gravel, rock and stone	29					29	
4331 sand & gravel	29					29	
Subtotal iron ore and scrap	365						365
4410 iron ore	361						361
4420 iron & steel scrap	5						5
Subtotal sulphur, clay and salt	3			3			
4782 clay & refrac. mat.	3			3			
Subtotal slag	1	1					
4860 slag	1	1					
Subtotal other non-metal. min.	301				21	229	51
4900 non-metal. min. nec	301				21	229	51

ST. MARYS RIVER, MI
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Foreign			Canadian		
		Imports	Through		Imports	Through	
			Upbound	Downbnd		Upbound	Downbnd
Total primary manufactured goods	144	-----	46	0	-----	98	0
Subtotal paper products	0	-----	0	-----	-----	-----	0
5120 paper & paperboard	0	-----	0	-----	-----	-----	0
Subtotal lime, cement and glass	98	-----	0	-----	-----	98	0
5220 cement & concrete	98	-----	-----	-----	-----	98	-----
5240 glass & glass prod.	0	-----	0	-----	-----	0	-----
5290 misc. mineral prod.	0	-----	0	-----	-----	-----	0
Subtotal primary iron and steel products	45	-----	45	-----	-----	-----	-----
5330 i&s plates & sheets	45	-----	45	-----	-----	-----	-----
5360 i&s bars & shapes	0	-----	0	-----	-----	-----	-----
5370 i&s pipe & tube	0	-----	0	-----	-----	-----	-----
5390 primary i&s nec	0	-----	0	-----	-----	-----	-----
Subtotal primary non-ferrous metal products	0	-----	0	0	-----	-----	0
5421 copper	0	-----	0	-----	-----	-----	0
5422 aluminum	0	-----	0	-----	-----	-----	0
5480 fab. metal products	0	-----	0	0	-----	-----	0
Subtotal primary wood products	0	-----	-----	-----	-----	-----	0
5540 primary wood prod.	0	-----	-----	-----	-----	-----	0
Total food and farm products	3,436	-----	0	1,509	-----	1	1,926
Subtotal grain	3,259	-----	-----	1,334	-----	-----	1,926
6241 wheat	1,807	-----	-----	951	-----	-----	856
6344 corn	190	-----	-----	117	-----	-----	73
6443 barley & rye	1,218	-----	-----	265	-----	-----	952
6445 oats	45	-----	-----	-----	-----	-----	45
Subtotal oilseeds	118	-----	-----	118	-----	-----	-----
6522 soybeans	118	-----	-----	118	-----	-----	-----
Subtotal vegetable products	26	-----	0	26	-----	-----	-----
6654 vegetables & prod.	26	-----	0	26	-----	-----	-----
Subtotal processed grain and animal feed	7	-----	0	6	-----	-----	-----
6747 grain mill products	0	-----	0	-----	-----	-----	-----
6782 animal feed, prep.	6	-----	-----	6	-----	-----	-----
Subtotal other agricultural products	27	-----	0	25	-----	1	0
6839 animals & prod. nec	0	-----	0	-----	-----	-----	-----
6857 fruit & nuts nec	0	-----	-----	0	-----	-----	-----
6858 fruit juices	0	-----	-----	0	-----	-----	0
6871 coffee	0	-----	0	-----	-----	-----	-----
6872 cocoa beans	0	-----	0	-----	-----	-----	-----
6885 alcoholic beverages	0	-----	0	-----	-----	-----	0
6889 food products nec	1	-----	-----	-----	-----	1	0
6899 farm products nec	25	-----	-----	25	-----	-----	-----
Total all manufactured equipment, machinery and products	3	-----	3	0	-----	0	0
7110 machinery (not elec)	1	-----	1	0	-----	-----	0
7120 electrical machinery	0	-----	0	0	-----	-----	0

ST. MARYS RIVER, MI
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Foreign			Canadian		
		Imports	Through Upbound	Downbnd	Imports	Through Upbound	Downbnd
7210 vehicles & parts	0		0	0			
7230 ships & boats	0			0		0	
7500 textile products	2		2				
7600 rubber & plastic pr.	0		0				
7900 manufac. prod. nec	0		0	0	0		
Total unknown or not elsewhere classified	0		0	0			
9900 unknown or nec	0		0	0			
Ton-miles (x1000) Foreign & Canadian	351,938	69	3,082	102,195	949	220,705	

Commodity	Total	Lakewise			
		Receipts	Shipments	Through Upbound	Downbnd
Total, all commodities	63,766	7	758	4,404	58,597
Total coal	11,745			1,071	10,674
1100 coal lignite	11,745			1,071	10,674
Total petroleum and petroleum products	49			30	19
Subtotal petroleum products	49			30	19
2211 gasoline	39			21	18
2330 distillate fuel oil	11			9	1
Total chemicals and related products	16			16	
Subtotal other chemicals and related products	16			16	
3276 metallic salts	16			16	
Total crude materials, inedible except fuels	50,863	7	758	3,103	46,995
Subtotal soil, sand, gravel, rock and stone	4,027		758	3,050	219
4322 limestone	4,014		758	3,038	219
4331 sand & gravel	13			13	
Subtotal iron ore and scrap	46,749				46,749
4410 iron ore	46,749				46,749
Subtotal slag	27				27
4860 slag	27				27
Subtotal other non-metal. min.	60	7		53	
4900 non-metal. min. nec	60	7		53	
Total primary manufactured goods	184			184	
Subtotal lime, cement and glass	184			184	
5220 cement & concrete	184			184	

ST. MARYS RIVER, MI
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Lakewise		
		Receipts	Shipments	Through Upbound Downbnd
Total food and farm products	909	-----	-----	----- 909
Subtotal grain	909	-----	-----	----- 909
6241 wheat	909	-----	-----	----- 909
Ton-miles (x1000) Lakewise	3,981,539	322	12,126	277,461 3,691,630
Tons All Traffic (x1000)	69,392			
Ton-miles All Traffic (x1000)	4,333,498			

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 tons)

Year	Total	Year	Total
1981	77,023	1986	51,408
1982	43,825	1987	62,460
1983	52,792	1988	74,054
1984	61,117	1989	75,143
1985	58,075	1990	68,514

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Through		Through		Total	Lakewise	
		Upbound	Downbnd	Upbound	Downbnd		Through	Upbound
Total, all commodities	68,514	49	1,622	377	3,464	63,001	4,404	58,597
Total coal	12,049	-----	-----	-----	304	11,745	1,071	10,674
1100 coal lignite	12,049	-----	-----	-----	304	11,745	1,071	10,674
Total petroleum and petroleum products	208	-----	109	50	-----	49	30	19
Subtotal petroleum products	208	-----	109	50	-----	49	30	19
2211 gasoline	46	-----	-----	8	-----	39	21	18
2330 distillate fuel oil	22	-----	3	8	-----	11	9	1
2340 residual fuel oil	33	-----	-----	33	-----	-----	-----	-----
2350 lube oil & greases	0	-----	0	-----	-----	-----	-----	-----

ST. MARYS FALLS CANAL, MI AND SAULT STE. MARIE, ONTARIO SHIP CANAL, CN (INCLUDED IN ST. MARYS RIVER)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign Through		Canadian Through		Domestic		
		Upbound	Downbnd	Upbound	Downbnd	Total	Lakewise	
							Upbound	Downbnd
2540 petroleum coke	106	-----	106	-----	-----	-----	-----	-----
Total chemicals and related products	891	0	1	1	873	16	16	-----
Subtotal fertilizers	872	-----	-----	-----	872	-----	-----	-----
3110 nitrogenous fert.	70	-----	-----	-----	70	-----	-----	-----
3130 potassic fert.	802	-----	-----	-----	802	-----	-----	-----
3190 fert. & mixes nec	0	-----	-----	-----	0	-----	-----	-----
Subtotal other chemicals and related products	20	0	1	1	2	16	16	-----
3220 alcohols	0	0	-----	-----	-----	-----	-----	-----
3230 carboxylic acids	0	0	-----	-----	-----	-----	-----	-----
3260 organic comp. nec	0	-----	0	-----	-----	-----	-----	-----
3274 sodium hydroxide	0	-----	0	-----	-----	-----	-----	-----
3275 inorg. elem., oxides, & halogen salts	2	0	-----	-----	2	-----	-----	-----
3276 metallic salts	17	0	0	-----	-----	16	16	-----
3282 pigments & paints	0	0	-----	-----	-----	-----	-----	-----
3284 medicines	0	0	-----	-----	-----	-----	-----	-----
3285 perfumes & cleansers	0	0	0	-----	-----	-----	-----	-----
3286 plastics	1	0	0	-----	-----	-----	-----	-----
3298 wood & resin chem.	1	-----	-----	1	-----	-----	-----	-----
Total crude materials, inedible except fuels	50,691	-----	3	229	361	50,098	3,103	46,995
Subtotal soil, sand, gravel, rock and stone	3,269	-----	-----	-----	-----	3,269	3,050	219
4322 limestone	3,256	-----	-----	-----	-----	3,256	3,038	219
4331 sand & gravel	13	-----	-----	-----	-----	13	13	-----
Subtotal iron ore and scrap	47,110	-----	-----	-----	361	46,749	-----	46,749
4410 iron ore	47,110	-----	-----	-----	361	46,749	-----	46,749
Subtotal sulphur, clay and salt	3	-----	3	-----	-----	-----	-----	-----
4782 clay & refrac. mat.	3	-----	3	-----	-----	-----	-----	-----
Subtotal slag	27	-----	-----	-----	-----	27	-----	27
4860 slag	27	-----	-----	-----	-----	27	-----	27
Subtotal other non-metal. min.	282	-----	-----	229	-----	53	53	-----
4900 non-metal. min. nec	282	-----	-----	229	-----	53	53	-----
Total primary manufactured goods	327	46	0	98	-----	184	184	-----
Subtotal paper products	0	0	-----	-----	-----	-----	-----	-----
5120 paper & paperboard	0	0	-----	-----	-----	-----	-----	-----
Subtotal lime, cement and glass	281	0	-----	98	-----	184	184	-----
5220 cement & concrete	281	-----	-----	98	-----	184	184	-----
5240 glass & glass prod.	0	0	-----	0	-----	-----	-----	-----

ST. MARYS FALLS CANAL, MI AND SAULT STE. MARIE, ONTARIO SHIP CANAL, CN (INCLUDED IN ST. MARYS RIVER)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic	
		Through		Through		Total	Lakewise Through
		Upbound	Downbnd	Upbound	Downbnd		
5290 misc. mineral prod.	0	0	-----	-----	-----	-----	-----
Subtotal primary Iron and steel products	45	45	-----	-----	-----	-----	-----
5330 i&s plates & sheets	45	45	-----	-----	-----	-----	-----
5360 i&s bars & shapes	0	0	-----	-----	-----	-----	-----
5370 i&s pipe & tube	0	0	-----	-----	-----	-----	-----
5390 primary i&s nec	0	0	-----	-----	-----	-----	-----
Subtotal primary non-ferrous metal products	0	0	0	-----	-----	-----	-----
5421 copper	0	0	-----	-----	-----	-----	-----
5422 aluminum	0	0	-----	-----	-----	-----	-----
5480 fab. metal products	0	0	0	-----	-----	-----	-----
Total food and farm products	4,345	0	1,509	1	1,926	909	909
Subtotal grain	4,169	-----	1,334	-----	1,926	909	909
6241 wheat	2,716	-----	951	-----	856	909	909
6344 corn	190	-----	117	-----	73	-----	-----
6443 barley & rye	1,218	-----	265	-----	952	-----	-----
6445 oats	45	-----	-----	-----	45	-----	-----
Subtotal oilseeds	118	-----	118	-----	-----	-----	-----
6522 soybeans	118	-----	118	-----	-----	-----	-----
Subtotal vegetable products	26	0	26	-----	-----	-----	-----
6654 vegetables & prod.	26	0	26	-----	-----	-----	-----
Subtotal processed grain and animal feed	7	0	6	-----	-----	-----	-----
6747 grain mill products	0	0	-----	-----	-----	-----	-----
6782 animal feed, prep.	6	-----	6	-----	-----	-----	-----
Subtotal other agricultural products	26	0	25	1	-----	-----	-----
6839 animals & prod. nec	0	0	-----	-----	-----	-----	-----
6857 fruit & nuts nec	0	-----	0	-----	-----	-----	-----
6858 fruit juices	0	-----	0	-----	-----	-----	-----
6871 coffee	0	0	-----	-----	-----	-----	-----
6872 cocoa beans	0	0	-----	-----	-----	-----	-----
6885 alcoholic beverages	0	0	-----	-----	-----	-----	-----
6889 food products nec	1	-----	-----	1	-----	-----	-----
6899 farm products nec	25	-----	25	-----	-----	-----	-----
Total all manufactured equipment, machinery and products	3	3	0	0	-----	-----	-----
7110 machinery (not elec)	1	1	0	-----	-----	-----	-----
7120 electrical machinery	0	0	0	-----	-----	-----	-----
7210 vehicles & parts	0	0	0	-----	-----	-----	-----
7230 ships & boats	0	-----	0	-----	-----	-----	-----
7500 textile products	2	2	-----	-----	-----	-----	-----
7600 rubber & plastic pr.	0	0	-----	-----	-----	-----	-----
7900 manufac. prod. nec	0	0	0	0	-----	-----	-----

ST. MARYS FALLS CANAL, MI AND SAULT STE. MARIE, ONTARIO SHIP CANAL, CN (INCLUDED IN ST. MARYS RIVER)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic	
		Through		Through		Total	Lakewise
		Upbound	Downbnd	Upbound	Downbnd		
Total unknown or not elsewhere classified	0	0	0	-----	-----	-----	-----
9900 unknown or nec	0	0	0	-----	-----	-----	-----
Ton-miles (x1000)	4,316,373	3,082	102,195	23,776	218,230	3,969,090	277,461 3,691,630

Tons All Traffic (x1000) 68,514
Ton-miles All Traffic (x1000) 4,316,373

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 tons)

Year	Total	Year	Total
1981	5,195	1986	3,980
1982	3,791	1987	3,464
1983	3,732	1988	3,713
1984	4,712	1989	4,569
1985	4,601	1990	8,214

Freight Traffic, 1990
 (thousand tons)

Commodity	Grand Total	Domestic			
		Lakewise		Internal	
		Through	Through	Through	Through
Total, all commodities	8,214	1,722	6,489	1	2
Total coal	3,111	52	3,059	-----	-----
1100 coal lignite	3,111	52	3,059	-----	-----
Total petroleum and petroleum products	658	599	57	-----	2
Subtotal petroleum products	658	599	57	-----	2
2211 gasoline	231	219	12	-----	-----
2330 distillate fuel oil	128	84	44	-----	-----
2340 residual fuel oil	13	11	-----	-----	2
2430 asphalt, tar & pitch	191	191	-----	-----	-----
2540 petroleum coke	94	94	-----	-----	-----

GRAYS REEF PASSAGE, MI
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Domestic			
		Lakewise		Internal	
		Through		Through	
		Upbound	Downbnd	Upbound	Downbnd
Total chemicals and related products	119	119	-----	-----	-----
Subtotal other chemicals and related products	119	119	-----	-----	-----
3276 metallic salts	119	119	-----	-----	-----
Total crude materials, inedible except fuels	2,792	429	2,363	-----	-----
Subtotal soil, sand, gravel, rock and stone	2,195	404	1,791	-----	-----
4322 limestone	1,417	-----	1,417	-----	-----
4323 gypsum	358	-----	358	-----	-----
4331 sand & gravel	421	404	17	-----	-----
Subtotal iron ore and scrap	243	-----	243	-----	-----
4410 iron ore	243	-----	243	-----	-----
Subtotal sulphur, clay and salt	26	-----	26	-----	-----
4782 clay & refrac. mat.	26	-----	26	-----	-----
Subtotal slag	25	25	-----	-----	-----
4860 slag	25	25	-----	-----	-----
Subtotal other non-metal. min.	304	-----	304	-----	-----
4900 non-metal. min. nec	304	-----	304	-----	-----
Total primary manufactured goods	1,532	523	1,010	-----	-----
Subtotal lime, cement and glass	1,532	523	1,010	-----	-----
5220 cement & concrete	1,532	523	1,010	-----	-----
Total all manufactured equipment, machinery and products	1	0	-----	1	-----
7110 machinery (not elec)	1	0	-----	1	-----
Ton-miles (x1000)	763,565	187,228	575,402	339	596
Tons All Traffic (x1000)	8,214				
Ton-miles All Traffic (x1000)	763,565				

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 tons)

Year	Total	Year	Total
1981	114	1986	59
1982	163	1987	127
1983	100	1988	118
1984	103	1989	1,456
1985	126	1990	1,508

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Lakewise	
		Receipts	Shipments
Total, all commodities	1,508	298	1,209
Total coal	277	277	-----
1100 coal lignite	277	277	-----
Total crude materials, inedible except fuels	20	20	-----
Subtotal soil, sand, gravel, rock and stone	20	20	-----
4322 limestone	20	20	-----
Total primary manufactured goods	1,207	-----	1,207
Subtotal lime, cement and glass	1,207	-----	1,207
5220 cement & concrete	1,207	-----	1,207
Total all manufactured equipment, machinery and products	3	1	2
7110 machinery (not elec)	0	0	-----
7900 manufac. prod. nec	3	1	2
Total unknown or not elsewhere classified	1	1	1
9900 unknown or nec	1	1	1

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 tons)

Year	Total	Year	Total
1981	132	1986	285
1982	215	1987	241
1983	225	1988	245
1984	263	1989	325
1985	263	1990	535

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Canadian	Domestic
		Imports	Lakewise Receipts
Total, all commodities	535	51	484
Total coal	415	-----	415
1100 coal lignite	415	-----	415
Total crude materials, inedible except fuels	120	51	69
Subtotal soil, sand, gravel, rock and stone	72	15	57
4322 limestone	57	-----	57
4331 sand & gravel	15	15	-----
Subtotal slag	12	-----	12
4860 slag	12	-----	12
Subtotal other non-metal. min.	36	36	-----
4900 non-metal: min. nec	36	36	-----

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 tons)

Year	Total	Year	Total
1981	1,762	1986	721
1982	1,191	1987	894
1983	660	1988	1,152
1984	1,175	1989	1,179
1985	1,075	1990	1,291

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Domestic		
		Lakewise		Internal Shipments
		Receipts	Shipments	
Total, all commodities	1,291	733	368	191
Total petroleum and petroleum products	5	5	-----	-----
Subtotal petroleum products	5	5	-----	-----
2340 residual fuel oil	5	5	-----	-----
Total chemicals and related products	364	1	173	191
Subtotal fertilizers	2	-----	2	-----
3120 phosphatic fert.	2	-----	2	-----
Subtotal other chemicals and related products	362	1	171	191
3275 inorg. elem., oxides, & halogen salts	15	0	14	-----
3276 metallic salts	348	0	157	191
3298 wood & resin chem.	0	0	0	-----
Total crude materials, inedible except fuels	763	644	119	-----
Subtotal forest products, wood and chips	25	25	-----	-----
4189 lumber	25	25	-----	-----
Subtotal pulp and waste paper	0	-----	0	-----
4225 pulp & waste paper	0	-----	0	-----
Subtotal soil, sand, gravel, rock and stone	658	549	109	-----
4310 building stone	0	0	-----	-----
4322 limestone	545	545	-----	-----
4331 sand & gravel	113	4	109	-----
Subtotal sulphur, clay and salt	45	35	10	-----
4782 clay & refrac. mat.	45	35	10	-----
Subtotal slag	35	35	-----	-----
4860 slag	35	35	-----	-----
Subtotal other non-metal. min.	1	-----	1	-----
4900 non-metal. min. nec	1	-----	1	-----

LUDINGTON HARBOR, MI
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Domestic			
		Lakewise			Internal
		Receipts	Shipments		Shipments
Total primary manufactured goods	130	70	60	-----	
Subtotal paper products	123	70	53	-----	
5120 paper & paperboard	68	68		-----	
5190 paper products nec	55	2	53	-----	
Subtotal lime, cement and glass	7	0	7	-----	
5220 cement & concrete	7	0	7	-----	
Subtotal primary iron and steel products	0		0	-----	
5390 primary i&s nec	0		0	-----	
Total food and farm products	10	9	0	-----	
Subtotal vegetable products	4	4		-----	
6654 vegetables & prod.	4	4		-----	
Subtotal processed grain and animal feed	5	5		-----	
6782 animal feed, prep.	5	5		-----	
Subtotal other agricultural products	1	1	0	-----	
6811 meat, fresh, frozen	0	0		-----	
6865 molasses	0	0		-----	
6885 alcoholic beverages	0		0	-----	
Total all manufactured equipment, machinery and products	19	4	15	-----	
7400 manufac. wood prod.	2		2	-----	
7600 rubber & plastic pr.	13		13	-----	
7900 manufac. prod. nec	4	4		-----	

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 tons)

Year	Total	Year	Total
1981	1,158	1986	1,193
1982	1,153	1987	1,202
1983	932	1988	1,544
1984	1,304	1989	1,877
1985	774	1990	1,802

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Canadian Imports	Domestic		
			Total	Lakewise	Internal
				Receipts	Receipts
Total, all commodities	1,802	50	1,752	1,738	14
Total coal	1,090	-----	1,090	1,090	-----
1100 coal lignite	1,090	-----	1,090	1,090	-----
Total petroleum and petroleum products	185	-----	185	185	-----
Subtotal petroleum products	185	-----	185	185	-----
2211 gasoline	87	-----	87	87	-----
2330 distillate fuel oil	99	-----	99	99	-----
Total chemicals and related products	14	-----	14	-----	14
Subtotal fertilizers	14	-----	14	-----	14
3110 nitrogenous fert.	14	-----	14	-----	14
Total crude materials, inedible except fuels	407	50	357	357	-----
Subtotal soil, sand, gravel, rock and stone	137	31	106	106	-----
4322 limestone	106	-----	106	106	-----
4331 sand & gravel	31	31	-----	-----	-----
Subtotal slag	225	-----	225	225	-----
4860 slag	225	-----	225	225	-----
Subtotal other non-metal. min.	46	19	26	26	-----
4900 non-metal. min. nec	46	19	26	26	-----
Total primary manufactured goods	106	-----	106	106	-----
Subtotal lime, cement and glass	106	-----	106	106	-----
5220 cement & concrete	106	-----	106	106	-----

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 tons)

Year	Total	Year	Total
1981	430	1986	1,377
1982	479	1987	1,388
1983	1,056	1988	1,424
1984	1,358	1989	1,333
1985	1,455	1990	1,052

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Foreign	Canadian	Domestic		
		Imports	Imports	Total	Lakewise	
				Receipts	Shipments	
Total, all commodities	1,052	4	96	952	644	308
Total coal	199	-----	-----	199	199	-----
1100 coal lignite	199	-----	-----	199	199	-----
Total petroleum and petroleum products	36	-----	-----	36	36	-----
Subtotal petroleum products	36	-----	-----	36	36	-----
2211 gasoline	29	-----	-----	29	29	-----
2330 distillate fuel oil	7	-----	-----	7	7	-----
Total chemicals and related products	42	4	38	-----	-----	-----
Subtotal fertilizers	42	4	38	-----	-----	-----
3110 nitrogenous fert.	16	4	12	-----	-----	-----
3130 potassic fert.	26	-----	26	-----	-----	-----
Total crude materials, inedible except fuels	655	-----	58	597	289	308
Subtotal soil, sand, gravel, rock and stone	446	-----	22	424	116	308
4322 limestone	116	-----	-----	116	116	-----
4331 sand & gravel	330	-----	22	308	-----	308
Subtotal slag	152	-----	-----	152	152	-----
4860 slag	152	-----	-----	152	152	-----
Subtotal other non-metal. min.	57	-----	36	21	21	-----
4900 non-metal. min. nec	57	-----	36	21	21	-----

GRAND HAVEN HARBOR AND GRAND RIVER, MI
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign	Canadian	Domestic	
		Imports	Imports	Total	Lakewise
				Receipts	Shipments
Total primary manufactured goods	121	-----	-----	121	121 -----
Subtotal lime, cement and glass	121	-----	-----	121	121 -----
5220 cement & concrete	121	-----	-----	121	121 -----
Ton-miles (x1000)	1,762		170	1,583	967 617

Tons All Traffic (x1000) **1,052**
Ton-miles All Traffic (x1000) **1,762**

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 tons)

Year	Total	Year	Total
1981	264	1986	420
1982	209	1987	314
1983	354	1988	313
1984	299	1989	361
1985	457	1990	391

Freight Traffic, 1990
 (thousand tons)

Commodity	Grand Total	Foreign	Canadian	Domestic
		Exports	Imports	Lakewise Receipts
Total, all commodities	391	10	30	351
Total coal	185	-----	-----	185
1100 coal lignite	185	-----	-----	185
Total crude materials, inedible except fuels	207	10	30	166
Subtotal soil, sand, gravel, rock and stone	101	-----	-----	101
4322 limestone	101	-----	-----	101
Subtotal iron ore and scrap	10	10	-----	-----
4420 iron & steel scrap	10	10	-----	-----
Subtotal slag	65	-----	-----	65
4860 slag	65	-----	-----	65

HOLLAND HARBOR, MI
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign	Canadian	Domestic
		Exports	Imports	Lakewise Receipts
Subtotal other non-metal. min.	30	-----	30	-----
4900 non-metal. min. nec	30	-----	30	-----

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 tons)

Year	Total	Year	Total
1981	429	1986	433
1982	270	1987	492
1983	243	1988	463
1984	330	1989	386
1985	390	1990	445

Freight Traffic, 1990
 (thousand tons)

Commodity	Grand Total	Canadian	Domestic
		Imports	Lakewise Receipts
Total, all commodities	445	1	444
Total chemicals and related products	1	1	-----
Subtotal fertilizers	0	0	-----
3110 nitrogenous fert.	0	0	-----
Subtotal other chemicals and related products	0	0	-----
3275 inorg. elem., oxides, & halogen salts	0	0	-----
Total crude materials, inedible except fuels	279	-----	279
Subtotal soil, sand, gravel, rock and stone	247	-----	247
4322 limestone	247	-----	247
Subtotal slag	32	-----	32
4860 slag	32	-----	32
Total primary manufactured goods	165	-----	165
Subtotal lime, cement and glass	165	-----	165
5220 cement & concrete	165	-----	165

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 tons)

Year	Total	Year	Total
1981	3,000	1986	1,823
1982	2,249	1987	2,161
1983	2,741	1988	2,289
1984	2,993	1989	2,379
1985	2,490	1990	2,128

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic Lakewise Receipts
		Imports	Exports	Imports	Exports	
Total, all commodities	2,127	101	60	460	196	1,310
Total coal	452	-----	-----	-----	-----	452
1100 coal lignite	452	-----	-----	-----	-----	452
Total petroleum and petroleum products	214	-----	-----	-----	-----	214
Subtotal petroleum products	214	-----	-----	-----	-----	214
2330 distillate fuel oil	0	-----	-----	-----	-----	0
2430 asphalt, tar & pitch	130	-----	-----	-----	-----	130
2540 petroleum coke	83	-----	-----	-----	-----	83
Total chemicals and related products	0	-----	0	-----	-----	-----
Subtotal other chemicals and related products	0	-----	0	-----	-----	-----
3286 plastics	0	-----	0	-----	-----	-----
Total crude materials, inedible except fuels	653	-----	4	419	-----	230
Subtotal forest products, wood and chips	0	-----	0	-----	-----	-----
4189 lumber	0	-----	0	-----	-----	-----
Subtotal soil, sand, gravel, rock and stone	108	-----	-----	-----	-----	108
4322 limestone	31	-----	-----	-----	-----	31
4331 sand & gravel	76	-----	-----	-----	-----	76
Subtotal iron ore and scrap	4	-----	4	-----	-----	-----
4420 iron & steel scrap	4	-----	4	-----	-----	-----
Subtotal non-ferrous ores and scrap	0	-----	0	-----	-----	-----
4680 non-ferrous scrap	0	-----	0	-----	-----	-----

MILWAUKEE HARBOR, WI
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic Lakewise Receipts
		Imports	Exports	Imports	Exports	
Subtotal other non-metal. min.	541	-----	-----	419	-----	122
4900 non-metal. min. nec	541	-----	-----	419	-----	122
Total primary manufactured goods	551	99	-----	37	0	415
Subtotal lime, cement and glass	415	-----	-----	-----	0	415
5220 cement & concrete	415	-----	-----	-----	-----	415
5290 misc. mineral prod.	0	-----	-----	-----	0	-----
Subtotal primary iron and steel products	136	99	-----	37	-----	-----
5312 pig iron	37	-----	-----	37	-----	-----
5320 i&s primary forms	6	6	-----	-----	-----	-----
5330 i&s plates & sheets	53	53	-----	-----	-----	-----
5360 i&s bars & shapes	40	40	-----	-----	-----	-----
5370 i&s pipe & tube	0	0	-----	-----	-----	-----
Subtotal primary non-ferrous metal products	0	0	-----	-----	-----	-----
5422 aluminum	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	253	0	53	3	196	-----
Subtotal grain	253	-----	53	3	196	-----
6344 corn	249	-----	53	-----	196	-----
6443 barley & rye	3	-----	-----	3	-----	-----
Subtotal vegetable products	0	0	-----	-----	-----	-----
6654 vegetables & prod.	0	0	-----	-----	-----	-----
Subtotal other agricultural products	0	0	-----	-----	-----	-----
6885 alcoholic beverages	0	0	-----	-----	-----	-----
Total all manufactured equipment, machinery and products	5	2	3	-----	0	-----
7110 machinery (not elec)	5	2	3	-----	0	-----
7120 electrical machinery	0	0	0	-----	-----	-----
7210 vehicles & parts	0	0	0	-----	-----	-----
7600 rubber & plastic pr.	0	0	-----	-----	-----	-----
7900 manufac. prod. nec	0	-----	0	-----	-----	-----
Total unknown or not elsewhere classified	0	-----	0	-----	-----	-----
9900 unknown or nec	0	-----	0	-----	-----	-----

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 tons)

Year	Total	Year	Total
1981	1,980	1986	2,200
1982	2,031	1987	1,431
1983	2,441	1988	1,640
1984	2,423	1989	1,547
1985	2,296	1990	1,677

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Foreign		Canadian	Domestic
		Imports	Exports	Imports	Lakewise Receipts
Total, all commodities	1,677	20	9	115	1,533
Total coal	972	-----	-----	-----	972
1100 coal lignite	962	-----	-----	-----	962
1200 coal coke	10	-----	-----	-----	10
Total petroleum and petroleum products	81	-----	-----	-----	81
Subtotal petroleum products	81	-----	-----	-----	81
2430 asphalt, tar & pitch	68	-----	-----	-----	68
2540 petroleum coke	12	-----	-----	-----	12
Total chemicals and related products	9	-----	-----	1	8
Subtotal other chemicals and related products	9	-----	-----	1	8
3276 metallic salts	9	-----	-----	1	8
Total crude materials, inedible except fuels	393	20	1	115	257
Subtotal pulp and waste paper	21	20	1	-----	-----
4225 pulp & waste paper	21	20	1	-----	-----
Subtotal soil, sand, gravel, rock and stone	232	-----	-----	-----	232
4322 limestone	232	-----	-----	-----	232
Subtotal iron ore and scrap	2	-----	-----	2	-----
4420 iron & steel scrap	2	-----	-----	2	-----
Subtotal other non-metal. min.	138	-----	-----	113	25
4900 non-metal. min. nec	138	-----	-----	113	25
Total primary manufactured goods	215	-----	0	-----	215
Subtotal paper products	0	-----	0	-----	-----
5190 paper products nec	0	-----	0	-----	-----

GREEN BAY HARBOR, WI
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Grand Total	Foreign		Canadian	Domestic
		Imports	Exports	Imports	Lakewise Receipts
Subtotal lime, cement and glass	215	-----	-----	-----	215
5220 cement & concrete	215	-----	-----	-----	215
Total food and farm products	8	-----	8	-----	-----
Subtotal other agricultural products	8	-----	8	-----	-----
6838 tallow, animal oils	8	-----	8	-----	-----

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 tons)

Year	Total	Year	Total
1981	2,171	1986	2,393
1982	1,821	1987	1,969
1983	2,178	1988	2,128
1984	2,423	1989	2,397
1985	2,382	1990	2,255

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Foreign Exports	Domestic		
			Total	Lakewise Receipts	Lakewise Shipments
Total, all commodities	2,255	3	2,252	383	1,869
Total coal	294	-----	294	294	-----
1100 coal lignite	294	-----	294	294	-----
Total petroleum and petroleum products	88	-----	88	88	-----
Subtotal petroleum products	88	-----	88	88	-----
2540 petroleum coke	88	-----	88	88	-----
Total primary manufactured goods	1,869	-----	1,869	-----	1,869
Subtotal lime, cement and glass	1,869	-----	1,869	-----	1,869
5220 cement & concrete	1,869	-----	1,869	-----	1,869

ALPENA HARBOR, MI
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Grand Total	Foreign		Domestic	
		Exports	Imports	Total	Lakewise
				Receipts	Shipments
Total all manufactured equipment, machinery and products	3	3	0	0	-----
7110 machinery (not elec)	3	3	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 misc. 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 tons)

Year	Total	Year	Total
1981	2,594	1986	3,917
1982	1,609	1987	4,342
1983	2,386	1988	4,571
1984	2,542	1989	4,674
1985	3,903	1990	4,039

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Imports	Exports	Imports	Total	Lakewise	
					Receipts	Shipments	
Total, all commodities	4,039	14	4	553	3,468	3,443	25
Total coal	128	-----	-----	-----	128	128	-----
1100 coal lignite	128	-----	-----	-----	128	128	-----
Total petroleum and petroleum products	63	-----	-----	17	46	21	25
Subtotal petroleum products	63	-----	-----	17	46	21	25
2211 gasoline	36	-----	-----	12	24	11	12
2330 distillate fuel oil	17	-----	-----	4	13	-----	13
2340 residual fuel oil	10	-----	-----	-----	10	10	-----

SAGINAW RIVER, MI
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian	Domestic	
		Imports	Exports	Imports	Total	Lakewise
					Receipts	Shipments
Total chemicals and related products	262	14	4	134	110	110
Subtotal fertilizers	148	14		134		
3110 nitrogenous fert.	34	14		19		
3130 potassic fert.	114			114		
Subtotal other chemicals and related products	114		4		110	110
3219 other hydrocarbons	4		4			
3260 organic comp. nec	1		1			
3275 inorg. elem., oxides, & halogen salts	8				8	8
3276 metallic salts	102				102	102
Total crude materials, inedible except fuels	3,213			127	3,086	3,086
Subtotal soil, sand, gravel, rock and stone	3,014				3,014	3,014
4322 limestone	2,782				2,782	2,782
4331 sand & gravel	232				232	232
Subtotal slag	25			15	10	10
4860 slag	25			15	10	10
Subtotal other non-metal. min.	173			112	61	61
4900 non-metal. min. nec	173			112	61	61
Total primary manufactured goods	374	0		276	98	98
Subtotal lime, cement and glass	374	0		276	98	98
5220 cement & concrete	374			276	98	98
5240 glass & glass prod.	0	0				
Total food and farm products	0	0				
Subtotal other agricultural products	0	0				
6885 alcoholic beverages	0	0				
Total all manufactured equipment, machinery and products	0			0		
7220 aircraft & parts	0			0		

ST. CLAIR RIVER, MI

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

Comparative Statement of Traffic
(thousand tons)

Year	Total	Year	Total
1981	86,824	1986	65,350
1982	54,689	1987	68,396
1983	60,123	1988	76,541
1984	74,351	1989	78,458
1985	69,918	1990	75,440

Freight Traffic, 1990
(thousand tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through		Imports	Through	
				Upbound	Downbnd		Upbound	Downbnd
Total, all commodities	19,438	1	8	1,343	2,449	143	10,385	5,110
Total coal	5,998	-----	-----	-----	8	-----	5,847	143
1100 coal lignite	5,998	-----	-----	-----	8	-----	5,847	143
Total petroleum and petroleum products	1,188	-----	-----	0	306	2	255	625
Subtotal crude petroleum	7	-----	-----	-----	-----	-----	-----	7
2100 crude petroleum	7	-----	-----	-----	-----	-----	-----	7
Subtotal petroleum products	1,182	-----	-----	0	306	2	255	618
2211 gasoline	81	-----	-----	-----	-----	-----	25	55
2330 distillate fuel oil	140	-----	-----	-----	3	-----	26	111
2340 residual fuel oil	446	-----	-----	-----	-----	-----	53	394
2350 lube oil & greases	30	-----	-----	0	0	0	29	0
2429 naphtha & solvents	18	-----	-----	-----	-----	-----	15	4
2430 asphalt, tar & pitch	110	-----	-----	-----	-----	0	106	4
2540 petroleum coke	353	-----	-----	-----	303	-----	-----	50
2640 liquid natural gas	4	-----	-----	-----	-----	2	2	-----
Total chemicals and related products	1,185	0	-----	36	39	14	489	608
Subtotal fertilizers	662	0	-----	18	33	0	33	577
3110 nitrogenous fert.	74	0	-----	18	-----	0	8	48
3130 potassic fert.	542	-----	-----	-----	-----	-----	26	516
3190 fert. & mixes nec	46	-----	-----	-----	33	-----	-----	13
Subtotal other chemicals and related products	523	0	-----	18	6	13	455	31
3211 acyclic hydrocarbons	15	-----	-----	-----	-----	0	13	1
3212 benzene & toluene	7	-----	-----	-----	-----	-----	2	5
3219 other hydrocarbons	122	-----	-----	4	4	1	104	8
3220 alcohols	35	-----	-----	0	-----	-----	35	-----
3230 carboxylic acids	0	0	-----	0	0	-----	-----	-----
3240 nitrogen func. comp.	16	-----	-----	0	0	9	6	0
3250 organo-inorgan. comp	0	-----	-----	-----	0	-----	-----	-----

ST. CLAIR RIVER, MI
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through		Imports	Through	
				Upbound	Downbnd		Upbound	Downbnd
3260 organic comp. nec	16				1		14	1
3272 sulphuric acid	0						0	
3273 ammonia	19					2	17	0
3274 sodium hydroxide	204				0		195	9
3275 inorg. elem.,oxides, & halogen salts	61			8		0	47	5
3276 metallic salts	1			0	0		1	
3279 inorganic chem. nec	0					0		
3282 pigments & paints	4			3	0	0	1	0
3283 coloring mat. nec	0			0				0
3284 medicines	0			0	0			
3285 perfumes & cleansers	0			0	0		0	0
3286 plastics	22	0		0	1	0	19	1
3291 pesticides	0				0			
3292 starches,gluten,glue	0			0				
3293 explosives	0				0			
3297 chemical additives	0			0	0			
3298 wood & resin chem.	1						1	
3299 chem. products nec	0	0		0	0			0
Total crude materials, inedible except fuels	4,695	0		102	243	62	2,728	1,560
Subtotal forest products, wood and chips	1			0	0	0	0	0
4170 wood in the rough	0							0
4189 lumber	1				0	0	0	0
4190 forest products nec	0			0				
Subtotal pulp and waste paper	43	0		21	1	12	9	
4225 pulp & waste paper	43	0		21	1	12	9	
Subtotal soil, sand, gravel, rock and stone	1,376			0	0		246	1,130
4310 building stone	52			0				52
4322 limestone	1,000							1,000
4327 phosphate rock	119						119	
4331 sand & gravel	205				0		127	78
Subtotal iron ore and scrap	1,637			29	166		1,390	52
4410 iron ore	1,405			29			1,376	
4420 iron & steel scrap	232				166		14	52
Subtotal non-ferrous ores and scrap	57			52	5			
4650 aluminum ore	17			17				
4670 manganese ore	36			36				
4680 non-ferrous scrap	5				5			
Subtotal sulphur, clay and salt	69	0			68			1
4782 clay & refrac. mat.	69	0			68			1
Subtotal slag	340				3		134	204
4860 slag	340				3		134	204
Subtotal other non-metal. min.	1,171			0	0	49	949	172
4900 non-metal. min. nec	1,171			0	0	49	949	172

ST. CLAIR RIVER, MI
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through		Imports	Through	
				Upbound	Downbnd		Upbound	Downbnd
Total primary manufactured goods	1,879	0	0	1,184	210	3	440	41
Subtotal paper products	4	0	0	0	0	2	2	0
5110 newsprint	3					2	1	0
5120 paper & paperboard	1	0		0			1	0
5190 paper products nec	0	0	0	0	0			
Subtotal lime, cement and glass	416	0		3	0		373	40
5220 cement & concrete	412						373	39
5240 glass & glass prod.	0			0	0		0	0
5290 misc. mineral prod.	4	0		3	0		0	1
Subtotal primary iron and steel products	1,449			1,174	210	0	64	0
5312 pig iron	134			85			49	
5315 ferro alloys	46			32			13	
5320 i&s primary forms	46			46		0		
5330 i&s plates & sheets	1,077			867	210	0		0
5360 i&s bars & shapes	129			129			0	0
5370 i&s pipe & tube	14			12			2	
5390 primary i&s nec	4			4			0	
Subtotal primary non-ferrous metal products	8	0		7	0	0	1	0
5421 copper	0			0	0			
5422 aluminum	1			0			0	
5429 smelted prod. nec	4			3		0	0	
5480 fab. metal products	4	0		3	0	0	0	0
Subtotal primary wood products	1			0		1	0	
5540 primary wood prod.	1			0		1	0	
Total food and farm products	3,791	0	8	2	1,630	1	19	2,131
Subtotal grain	3,594			0	1,445		18	2,131
6241 wheat	1,807				951			856
6344 corn	509				229			281
6442 rice	0			0				
6443 barley & rye	1,214				265			949
6445 oats	64						18	45
Subtotal oilseeds	118		0		118			0
6522 soybeans	118				118			
6590 oilseeds nec	0		0		0			0
Subtotal vegetable products	27	0		0	26	0	0	0
6653 vegetable oils	0	0		0				
6654 vegetables & prod.	27			0	26	0	0	0
Subtotal processed grain and animal feed	16		8	0	7	1		
6746 wheat flour	0				0			
6747 grain mill products	0			0	0			
6782 animal feed, prep.	16		8	0	6	1		

ST. CLAIR RIVER, MI
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through		Imports	Through	
				Upbound	Downbnd		Upbound	Downbnd
Subtotal other agricultural products	37	0	-----	1	34	0	1	1
6817 meat, prepared	0	-----	-----	0	-----	-----	-----	-----
6822 dairy products	0	-----	-----	0	-----	-----	-----	0
6835 fish, prepared	0	-----	-----	0	-----	-----	-----	-----
6838 tallow, animal oils	8	-----	-----	-----	8	-----	-----	-----
6839 animals & prod. nec	0	-----	-----	0	-----	0	0	-----
6857 fruit & nuts nec	0	-----	-----	-----	0	-----	-----	-----
6858 fruit juices	0	-----	-----	0	0	-----	-----	-----
6871 coffee	0	-----	-----	0	-----	-----	-----	0
6872 cocoa beans	0	-----	-----	0	-----	-----	-----	-----
6885 alcoholic beverages	1	0	-----	0	-----	-----	0	1
6889 food products nec	1	-----	-----	0	-----	-----	1	-----
6899 farm products nec	25	-----	-----	0	25	-----	-----	0
Total all manufactured equipment, machinery and products	677	1	0	18	14	59	583	2
7110 machinery (not elec)	26	0	-----	11	13	1	1	0
7120 electrical machinery	3	0	-----	1	0	0	1	0
7210 vehicles & parts	621	0	-----	2	0	52	566	1
7220 aircraft & parts	0	-----	-----	0	-----	-----	0	-----
7230 ships & boats	0	-----	-----	0	0	-----	0	0
7300 ordnance & access.	0	-----	-----	-----	0	-----	-----	-----
7400 manufac. wood prod.	0	-----	-----	0	-----	-----	-----	-----
7500 textile products	2	0	-----	2	0	-----	0	1
7600 rubber & plastic pr.	21	-----	-----	1	0	6	15	0
7900 manufac. prod. nec	3	0	0	1	0	1	0	0
Total unknown or not elsewhere classified	24	0	-----	0	0	2	22	0
9900 unknown or nec	24	0	-----	0	0	2	22	0
Ton-miles (x1000) Foreign & Canadian	756,284	32	290	52,367	95,505	3,801	405,009	199,278

Commodity	Total	Domestic					
		Receipts	Lakewise			Internal	
			Upbound	Through	Downbnd	Upbound	Downbnd
Total, all commodities	56,001	10,197	5,594	40,207	2	1	
Total coal	15,750	8,924	4,949	1,877	-----	-----	
1100 coal lignite	15,750	8,924	4,949	1,877	-----	-----	
Total petroleum and petroleum products	385	78	88	217	2	-----	
Subtotal petroleum products	385	78	88	217	2	-----	
2211 gasoline	32	-----	32	-----	-----	-----	

ST. CLAIR RIVER, MI
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Domestic				
		Receipts	Lakewise Through		Internal Through	
			Upbound	Downbnd	Upbound	Downbnd
2330 distillate fuel oil	100	50	47	2		
2340 residual fuel oil	45	27	10	5	2	
2430 asphalt, tar & pitch	191			191		
2540 petroleum coke	18			18		
Total chemicals and related products	8		8			
Subtotal other chemicals and related products	8		8			
3275 inorg. elem.,oxides, & halogen salts	8		8			
Total crude materials, inedible except fuels	37,848	1,195	549	36,104		
Subtotal soil, sand, gravel, rock and stone	9,978	1,195	17	8,766		
4322 limestone	9,114	1,195		7,918		
4323 gypsum	661			661		
4331 sand & gravel	203		17	186		
Subtotal iron ore and scrap	27,320		21	27,299		
4410 iron ore	27,320		21	27,299		
Subtotal sulphur, clay and salt	25			25		
4782 clay & refrac. mat.	25			25		
Subtotal slag	94		80	14		
4860 slag	94		80	14		
Subtotal other non-metal. min.	431		431			
4900 non-metal. min. nec	431		431			
Total primary manufactured goods	1,100			1,100		
Subtotal lime, cement and glass	1,100			1,100		
5220 cement & concrete	1,100			1,100		
Total food and farm products	909			909		
Subtotal grain	909			909		
6241 wheat	909			909		
Total all manufactured equipment, machinery and products	1					1
7110 machinery (not elec)	1					1
Ton-miles (x1000) Domestic	1,960,879	174,523	218,156	1,568,071	90	39
Tons All Traffic (x1000)	75,440					
Ton-miles All Traffic (x1000)	2,717,176					

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 tons)

Year	Total	Year	Total
1981	628	1986	519
1982	321	1987	539
1983	331	1988	955
1984	579	1989	1,034
1985	325	1990	1,429

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic
		Imports	Exports	Imports	Exports	Lakewise Receipts
Total, all commodities	1,429	1	8	1,001	76	343
Total coal	28	-----	-----	-----	-----	28
1100 coal lignite	28	-----	-----	-----	-----	28
Total petroleum and petroleum products	67	-----	-----	7	59	-----
Subtotal petroleum products	67	-----	-----	7	59	-----
2330 distillate fuel oil	12	-----	-----	-----	12	-----
2340 residual fuel oil	2	-----	-----	2	-----	-----
2350 lube oil & greases	0	-----	-----	0	0	-----
2429 naphtha & solvents	4	-----	-----	0	4	-----
2430 asphalt, tar & pitch	1	-----	-----	1	-----	-----
2540 petroleum coke	44	-----	-----	-----	44	-----
2640 liquid natural gas	4	-----	-----	4	-----	-----
Total chemicals and related products	323	0	-----	310	13	-----
Subtotal fertilizers	15	0	-----	3	13	-----
3110 nitrogenous fert.	3	0	-----	3	-----	-----
3190 fert. & mixes nec	13	-----	-----	-----	13	-----
Subtotal other chemicals and related products	308	0	-----	308	0	-----
3211 acyclic hydrocarbons	13	-----	-----	13	-----	-----
3212 benzene & toluene	1	-----	-----	1	-----	-----
3219 other hydrocarbons	43	-----	-----	43	-----	-----
3220 alcohols	0	-----	-----	0	-----	-----
3230 carboxylic acids	0	0	-----	-----	-----	-----
3240 nitrogen func. comp.	16	-----	-----	16	0	-----
3260 organic comp. nec	12	-----	-----	12	-----	-----
3272 sulphuric acid	0	-----	-----	0	-----	-----
3273 ammonia	19	-----	-----	19	-----	-----

PORT HURON, MI (INCLUDED IN ST. CLAIR RIVER)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic Lakewise Receipts
		Imports	Exports	Imports	Exports	
3274 sodium hydroxide	139			139		
3275 inorg. elem., oxides, & halogen salts	46			46	0	
3279 inorganic chem. nec	0			0		
3282 pigments & paints	1			1	0	
3283 coloring mat. nec	0				0	
3285 perfumes & cleansers	0				0	
3286 plastics	17	0		17	0	
3299 chem. products nec	0	0			0	
Total crude materials, inedible except fuels	344	0		28	1	315
Subtotal forest products, wood and chips	1			1	0	
4170 wood in the rough	0				0	
4189 lumber	1			1	0	
Subtotal pulp and waste paper	21	0		21		
4225 pulp & waste paper	21	0		21		
Subtotal soil, sand, gravel, rock and stone	315					315
4322 limestone	315					315
Subtotal iron ore and scrap	0			0		
4420 iron & steel scrap	0			0		
Subtotal sulphur, clay and salt	1	0			1	
4782 clay & refrac. mat.	1	0			1	
Subtotal slag	0				0	
4860 slag	0				0	
Subtotal other non-metal. min.	6			6		
4900 non-metal. min. nec	6			6		
Total primary manufactured goods	10	0	0	8	2	
Subtotal paper products	4	0	0	3	0	
5110 newsprint	3			3	0	
5120 paper & paperboard	1	0		1	0	
5190 paper products nec	0	0	0			
Subtotal lime, cement and glass	1	0			1	
5240 glass & glass prod.	0				0	
5290 misc. mineral prod.	1	0			1	
Subtotal primary iron and steel products	3			3	0	
5320 i&s primary forms	0			0		
5330 i&s plates & sheets	0			0	0	
5360 i&s bars & shapes	0			0	0	
5370 i&s pipe & tube	2			2		
5390 primary i&s nec	0			0		
Subtotal primary non-ferrous metal products	1	0		1	0	
5422 aluminum	0			0		
5429 smelted prod. nec	0			0		
5480 fab. metal products	0	0		0	0	
Subtotal primary wood products	1			1		
5540 primary wood prod.	1			1		

PORT HURON, MI (INCLUDED IN ST. CLAIR RIVER)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic
		Imports	Exports	Imports	Exports	Lakewise Receipts
Total food and farm products	10	0	8	1	1	-----
Subtotal oilseeds	0	-----	0	-----	0	-----
6590 oilseeds nec	0	-----	0	-----	0	-----
Subtotal vegetable products	0	0	-----	0	0	-----
6653 vegetable oils	0	0	-----	-----	-----	-----
6654 vegetables & prod.	0	-----	-----	0	0	-----
Subtotal processed grain and animal feed	9	-----	8	1	-----	-----
6782 animal feed, prep.	9	-----	8	1	-----	-----
Subtotal other agricultural products	1	0	-----	0	1	-----
6822 dairy products	0	-----	-----	-----	0	-----
6839 animals & prod. nec	0	-----	-----	0	-----	-----
6871 coffee	0	-----	-----	-----	0	-----
6885 alcoholic beverages	1	0	-----	-----	1	-----
Total all manufactured equipment, machinery and products	643	1	0	642	0	-----
7110 machinery (not elec)	1	0	-----	1	0	-----
7120 electrical machinery	2	0	-----	2	0	-----
7210 vehicles & parts	618	0	-----	618	0	-----
7230 ships & boats	0	-----	-----	-----	0	-----
7500 textile products	0	0	-----	-----	0	-----
7600 rubber & plastic pr.	21	-----	-----	21	0	-----
7900 manufac. prod. nec	2	0	0	1	0	-----
Total unknown or not elsewhere classified	4	0	-----	4	-----	-----
9900 unknown or nec	4	0	-----	4	-----	-----

MARYSVILLE, MI (INCLUDED IN ST. CLAIR RIVER)

Section Included: West bank of St. Clair River at Marysville, Mich. 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 tons)

Year	Total	Year	Total
1981	264	1986	210
1982	293	1987	440
1983	286	1988	221
1984	333	1989	559
1985	74	1990	615

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Canadian		Domestic
		Imports	Exports	Lakewise Receipts
Total, all commodities	615	140	7	468
Total coal	60	-----	-----	60
1100 coal lignite	60	-----	-----	60
Total petroleum and petroleum products	58	13	7	39
Subtotal petroleum products	58	13	7	39
2330 distillate fuel oil	16	-----	-----	16
2340 residual fuel oil	35	13	-----	23
2540 petroleum coke	7	-----	7	-----
Total chemicals and related products	3	3	-----	-----
Subtotal fertilizers	1	1	-----	-----
3110 nitrogenous fert.	1	1	-----	-----
Subtotal other chemicals and related products	1	1	-----	-----
3273 ammonia	0	0	-----	-----
3274 sodium hydroxide	0	0	-----	-----
3275 inorg. elem., oxides, & halogen salts	1	1	-----	-----
Total crude materials, inedible except fuels	494	125	0	369
Subtotal soil, sand, gravel, rock and stone	450	81	0	369
4322 limestone	369	-----	0	369
4331 sand & gravel	81	81	-----	-----
Subtotal other non-metal. min.	43	43	-----	-----
4900 non-metal. min. nec	43	43	-----	-----
Total food and farm products	0	0	-----	-----
Subtotal other agricultural products	0	0	-----	-----
6839 animals & prod. nec	0	0	-----	-----
Total all manufactured equipment, machinery and products	0	0	-----	-----
7210 vehicles & parts	0	0	-----	-----

MARYSVILLE, MI (INCLUDED IN ST. CLAIR RIVER)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Canadian		Domestic
		Imports	Exports	Lakewise Receipts
Total unknown or not elsewhere classified	0	0	-----	-----
9900 unknown or nec	0	0	-----	-----

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

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

Comparative Statement of Traffic
 (thousand tons)

Year	Total	Year	Total
1981	3,351	1986	8,608
1982	3,259	1987	8,450
1983	4,242	1988	8,212
1984	5,380	1989	5,756
1985	6,177	1990	4,889

Freight Traffic, 1990
 (thousand tons)

Commodity	Grand Total	Lakewise Receipts
Total, all commodities	4,889	4,889
Total coal	4,850	4,850
1100 coal lignite	4,850	4,850
Total petroleum and petroleum products	39	39
Subtotal petroleum products	39	39
2330 distillate fuel oil	34	34
2340 residual fuel oil	5	5

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

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

Comparative Statement of Traffic
(thousand tons)

Year	Total	Year	Total
1981	190	1986	382
1982	110	1987	419
1983	163	1988	383
1984	351	1989	328
1985	271	1990	4,497

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Lakewise Receipts
Total, all commodities	4,497	4,497
Total coal	3,986	3,986
1100 coal lignite	3,986	3,986
Total crude materials, inedible except fuels	511	511
Subtotal soil, sand, gravel, rock and stone	511	511
4322 limestone	511	511

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 tons)

Year	Total	Year	Total
1981	82,294	1986	55,629
1982	50,222	1987	58,521
1983	54,708	1988	66,198
1984	67,819	1989	69,851
1985	62,890	1990	64,034

Freight Traffic, 1990
(thousand tons)

Commodity	Total	Foreign		Canadian	
		Through		Through	
		Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	17,715	1,344	2,457	8,901	5,014
Total coal	5,993	-----	8	5,842	143
1100 coal lignite	5,993	-----	8	5,842	143
Total petroleum and petroleum products	881	0	306	29	546
Subtotal crude petroleum	7	-----	-----	-----	7
2100 crude petroleum	7	-----	-----	-----	7
Subtotal petroleum products	874	0	306	29	540
2211 gasoline	69	-----	-----	13	55
2330 distillate fuel oil	102	-----	3	-----	99
2340 residual fuel oil	381	-----	-----	-----	381
2350 lube oil & greases	0	0	0	0	-----
2430 asphalt, tar & pitch	18	-----	-----	14	4
2540 petroleum coke	303	-----	303	-----	-----
2640 liquid natural gas	2	-----	-----	2	-----
Total chemicals and related products	702	36	39	33	594
Subtotal fertilizers	619	18	33	4	564
3110 nitrogenous fert.	70	18	-----	4	48
3130 potassic fert.	516	-----	-----	-----	516
3190 fert. & mixes nec	33	-----	33	-----	0
Subtotal other chemicals and related products	83	18	6	29	31
3211 acyclic hydrocarbons	2	-----	-----	0	1
3212 benzene & toluene	5	-----	-----	-----	5
3219 other hydrocarbons	24	4	4	8	8
3220 alcohols	4	0	-----	4	-----
3230 carboxylic acids	0	0	0	-----	-----
3240 nitrogen func. comp.	10	0	0	10	-----
3250 organo-inorgan. comp	0	-----	0	-----	-----
3260 organic comp. nec	4	-----	1	-----	-----
3273 ammonia	2	-----	-----	2	0
3274 sodium hydroxide	11	-----	0	2	9

CHANNELS IN LAKE ST. CLAIR
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Foreign Through		Canadian Through	
		Upbound	Downbnd	Upbound	Downbnd
3275 inorg. elem.,oxides, & halogen salts	13	8	---	0	5
3276 metallic salts	1	0	0	1	---
3279 inorganic chem. nec	0	---	---	0	---
3282 pigments & paints	3	3	0	0	---
3283 coloring mat. nec	0	0	---	---	---
3284 medicines	0	0	0	---	---
3285 perfumes & cleansers	0	0	0	0	0
3286 plastics	3	0	1	0	1
3291 pesticides	0	---	0	---	---
3292 starches,gluten,glue	0	0	---	---	---
3293 explosives	0	---	0	---	---
3297 chemical additives	0	0	0	---	---
3298 wood & resin chem.	1	---	---	1	---
3299 chem. products nec	0	0	0	---	---
Total crude materials, inedible except fuels	4,361	102	243	2,457	1,559
Subtotal forest products, wood and chips	1	0	0	0	0
4189 lumber	1	---	0	0	0
4190 forest products nec	0	0	---	---	---
Subtotal pulp and waste paper	34	21	1	12	---
4225 pulp & waste paper	34	21	1	12	---
Subtotal soil, sand, gravel, rock and stone	1,295	0	0	165	1,130
4310 building stone	52	0	---	---	52
4322 limestone	1,000	---	---	---	1,000
4327 phosphate rock	119	---	---	119	---
4331 sand & gravel	124	---	0	46	78
Subtotal iron ore and scrap	1,594	29	166	1,347	52
4410 iron ore	1,374	29	---	1,346	---
4420 iron & steel scrap	220	---	166	2	52
Subtotal non-ferrous ores and scrap	57	52	5	---	---
4650 aluminum ore	17	17	---	---	---
4670 manganese ore	36	36	---	---	---
4680 non-ferrous scrap	5	---	5	---	---
Subtotal sulphur, clay and salt	68	0	68	---	---
4782 clay & refrac. mat.	68	0	68	---	---
Subtotal slag	278	---	3	71	204
4860 slag	278	---	3	71	204
Subtotal other non-metal. min.	1,033	0	0	860	172
4900 non-metal. min. nec	1,033	0	0	860	172
Total primary manufactured goods	1,873	1,184	210	439	39
Subtotal paper products	2	0	0	2	0
5110 newsprint	2	---	---	2	0
5120 paper & paperboard	0	0	---	0	0
5190 paper products nec	0	0	0	---	---
Subtotal lime, cement and glass	415	3	0	373	39
5220 cement & concrete	412	---	---	373	39
5240 glass & glass prod.	0	0	0	0	---
5290 misc. mineral prod.	3	3	0	0	---

CHANNELS IN LAKE ST. CLAIR
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Foreign		Canadian	
		Through		Through	
		Upbound	Downbnd	Upbound	Downbnd
Subtotal primary iron and steel products	1,447	1,174	210	62	-----
5312 pig iron	134	85	-----	49	-----
5315 ferro alloys	46	32	-----	13	-----
5320 i&s primary forms	46	46	-----	0	-----
5330 i&s plates & sheets	1,077	867	210	0	-----
5360 i&s bars & shapes	129	129	-----	-----	-----
5370 i&s pipe & tube	12	12	-----	-----	-----
5390 primary i&s nec	4	4	-----	-----	-----
Subtotal primary non-ferrous metal products	7	7	0	0	0
5421 copper	0	0	0	-----	-----
5422 aluminum	1	0	-----	0	-----
5429 smelted prod. nec	4	3	-----	0	-----
5480 fab. metal products	3	3	0	0	0
Subtotal primary wood products	1	0	-----	1	-----
5540 primary wood prod.	1	0	-----	1	-----
Total food and farm products	3,790	2	1,637	21	2,131
Subtotal grain	3,594	0	1,445	18	2,131
6241 wheat	1,807	-----	951	-----	856
6344 corn	509	-----	229	-----	281
6442 rice	0	0	-----	-----	-----
6443 barley & rye	1,214	-----	265	-----	949
6445 oats	64	-----	-----	18	45
Subtotal oilseeds	118	-----	118	-----	-----
6522 soybeans	118	-----	118	-----	-----
6590 oilseeds nec	0	-----	0	-----	-----
Subtotal vegetable products	27	0	26	0	-----
6653 vegetable oils	0	0	-----	-----	-----
6654 vegetables & prod.	27	0	26	0	-----
Subtotal processed grain and animal feed	16	0	14	1	-----
6746 wheat flour	0	-----	0	-----	-----
6747 grain mill products	0	0	0	-----	-----
6782 animal feed, prep.	16	0	14	1	-----
Subtotal other agricultural products	36	1	34	1	0
6817 meat, prepared	0	0	-----	-----	-----
6822 dairy products	0	0	-----	-----	0
6835 fish, prepared	0	0	-----	-----	-----
6838 tallow, animal oils	8	-----	8	-----	-----
6839 animals & prod. nec	0	0	-----	0	-----
6857 fruit & nuts nec	0	-----	0	-----	-----
6858 fruit juices	0	0	0	-----	-----
6871 coffee	0	0	-----	-----	-----
6872 cocoa beans	0	0	-----	-----	-----
6885 alcoholic beverages	0	0	-----	0	-----
6889 food products nec	1	0	-----	1	-----
6899 farm products nec	25	0	25	-----	0
Total all manufactured equipment, machinery and products	93	19	14	60	1
7110 machinery (not elec)	26	11	13	1	0
7120 electrical machinery	2	1	0	0	-----
7210 vehicles & parts	54	2	0	52	1

CHANNELS IN LAKE ST. CLAIR
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Foreign Through		Canadian Through	
		Upbound	Downbnd	Upbound	Downbnd
7220 aircraft & parts	0	0	0	0	0
7230 ships & boats	0	0	0	0	0
7300 ordnance & access.	0	0	0	0	0
7400 manufac. wood prod.	0	0	0	0	0
7500 textile products	2	2	0	0	1
7600 rubber & plastic pr.	6	1	0	6	0
7900 manufac. prod. nec	3	2	0	1	0
Total unknown or not elsewhere classified	22	0	0	22	0
9900 unknown or nec	22	0	0	22	0
Ton-miles (x1000) Foreign & Canadian	318,875	24,185	44,221	160,213	90,257

Commodity	Total	Domestic			
		Lakewise Through		Internal Through	
		Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	46,318	6,108	40,207	2	1
Total coal	7,264	5,388	1,877		
1100 coal lignite	7,264	5,388	1,877		
Total petroleum and petroleum products	379	160	217	2	
Subtotal petroleum products	379	160	217	2	
2211 gasoline	32	32			
2330 distillate fuel oil	100	97	2		
2340 residual fuel oil	39	31	5	2	
2430 asphalt, tar & pitch	191		191		
2540 petroleum coke	18		18		
Total chemicals and related products	8	8			
Subtotal other chemicals and related products	8	8			
3275 inorg. elem.,oxides, & halogen salts	8	8			
Total crude materials, inedible except fuels	36,656	552	36,104		
Subtotal soil, sand, gravel, rock and stone	8,786	20	8,766		
4322 limestone	7,922	3	7,918		
4323 gypsum	661		661		
4331 sand & gravel	203	17	186		
Subtotal iron ore and scrap	27,320	21	27,299		
4410 iron ore	27,320	21	27,299		
Subtotal sulphur, clay and salt	25		25		
4782 clay & refrac. mat.	25		25		

CHANNELS IN LAKE ST. CLAIR
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Domestic			
		Lakewise		Internal	
		Through		Through	
		Upbound	Downbnd	Upbound	Downbnd
Subtotal slag	94	80	14	-----	-----
4860 slag	94	80	14	-----	-----
Subtotal other non-metal. min.	431	431	-----	-----	-----
4900 non-metal. min. nec	431	431	-----	-----	-----
Total primary manufactured goods	1,100	-----	1,100	-----	-----
Subtotal lime, cement and glass	1,100	-----	1,100	-----	-----
5220 cement & concrete	1,100	-----	1,100	-----	-----
Total food and farm products	909	-----	909	-----	-----
Subtotal grain	909	-----	909	-----	-----
6241 wheat	909	-----	909	-----	-----
Total all manufactured equipment, machinery and products	1	-----	-----	-----	1
7110 machinery (not elec)	1	-----	-----	-----	1
Ton-miles (x1000)	833,722		723,725		18
Domestic		109,937		42	
Tons All Traffic (x1000)					64,034
Ton-miles All Traffic (x1000)					1,152,603

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 tons)

Year	Total	Year	Total
1981	90,406	1986	61,733
1982	56,566	1987	62,689
1983	60,760	1988	71,502
1984	75,052	1989	75,662
1985	69,404	1990	69,636

Freight Traffic, 1990
(thousand tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through		Imports	Through	
				Upbound	Downbnd		Upbound	Downbnd
Total, all commodities	21,217	732	75	1,344	2,457	1,577	9,516	5,517
Total coal	6,154	-----	-----	-----	8	107	5,842	198
1100 coal lignite	5,993	-----	-----	-----	8	0	5,842	143
1200 coal coke	161	-----	-----	-----	-----	106	-----	55
Total petroleum and petroleum products	1,099	-----	-----	0	306	88	38	667
Subtotal crude petroleum	7	-----	-----	-----	-----	-----	-----	7
2100 crude petroleum	7	-----	-----	-----	-----	-----	-----	7
Subtotal petroleum products	1,092	-----	-----	0	306	88	38	660
2211 gasoline	73	-----	-----	-----	-----	32	13	27
2221 kerosene	15	-----	-----	-----	-----	-----	-----	15
2330 distillate fuel oil	113	-----	-----	-----	3	39	9	63
2340 residual fuel oil	477	-----	-----	-----	-----	13	-----	464
2350 lube oil & greases	0	-----	-----	0	0	-----	0	-----
2430 asphalt, tar & pitch	21	-----	-----	-----	-----	4	14	3
2540 petroleum coke	391	-----	-----	-----	303	-----	-----	89
2640 liquid natural gas	2	-----	-----	-----	-----	-----	2	-----
Total chemicals and related products	853	3	2	36	39	33	33	707
Subtotal fertilizers	714	-----	-----	18	33	0	4	658
3110 nitrogenous fert.	81	-----	-----	18	-----	-----	4	59
3120 phosphatic fert.	5	-----	-----	-----	-----	-----	-----	5
3130 potassic fert.	516	-----	-----	-----	-----	-----	-----	516
3190 fert. & mixes nec	111	-----	-----	-----	33	0	-----	78
Subtotal other chemicals and related products	140	3	2	18	6	33	29	49
3211 acyclic hydrocarbons	2	-----	-----	-----	-----	-----	0	1
3212 benzene & toluene	5	-----	-----	-----	-----	-----	-----	5
3219 other hydrocarbons	31	0	0	4	4	-----	8	15
3220 alcohols	4	0	-----	0	-----	-----	4	-----
3230 carboxylic acids	1	0	0	0	0	-----	-----	0

DETROIT RIVER, MI
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through		Imports	Through	
				Upbound	Downbnd		Upbound	Downbnd
3240 nitrogen func. comp.	10	-----	0	0	0	-----	10	0
3250 organo-inorgan. comp	0	0	0	-----	0	-----	-----	-----
3260 organic comp. nec	4	0	0	-----	1	-----	2	1
3273 ammonia	2	-----	-----	-----	-----	0	2	0
3274 sodium hydroxide	11	0	-----	-----	0	-----	2	9
3275 inorg. elem.,oxides, & halogen salts	15	0	0	8	-----	1	0	5
3276 metallic salts	19	0	0	0	0	7	1	11
3279 inorganic chem. nec	1	0	-----	-----	-----	1	0	0
3282 pigments & paints	3	0	0	3	0	-----	0	-----
3283 coloring mat. nec	0	-----	-----	0	-----	-----	-----	0
3284 medicines	1	0	0	0	0	-----	-----	0
3285 perfumes & cleansers	1	0	1	0	0	-----	0	0
3286 plastics	4	1	1	0	1	0	0	1
3291 pesticides	0	0	-----	-----	0	-----	-----	0
3292 starches,gluten,glue	1	1	-----	0	-----	-----	-----	0
3293 explosives	0	-----	-----	-----	0	-----	-----	-----
3297 chemical additives	0	-----	0	0	0	-----	-----	-----
3298 wood & resin chem.	1	-----	-----	-----	-----	-----	1	0
3299 chem. products nec	26	0	0	0	0	25	-----	0
Total crude materials, inedible except fuels	6,198	1	69	102	243	1,227	2,850	1,706
Subtotal forest products, wood and chips	7	0	0	0	0	5	1	0
4189 lumber	6	0	0	-----	0	5	1	0
4190 forest products nec	0	-----	-----	0	-----	-----	-----	-----
Subtotal pulp and waste paper	39	-----	2	21	1	0	12	3
4225 pulp & waste paper	39	-----	2	21	1	0	12	3
Subtotal soil, sand, gravel, rock and stone	1,518	0	-----	0	0	-----	165	1,353
4310 building stone	52	0	-----	0	-----	-----	-----	52
4322 limestone	1,050	-----	-----	-----	-----	-----	-----	1,050
4323 gypsum	0	-----	-----	-----	-----	-----	-----	0
4327 phosphate rock	119	-----	-----	-----	-----	-----	119	-----
4331 sand & gravel	297	0	-----	-----	0	-----	46	251
Subtotal iron ore and scrap	2,854	1	67	29	166	921	1,506	165
4410 iron ore	2,548	-----	-----	29	-----	858	1,503	158
4420 iron & steel scrap	306	1	67	-----	166	63	3	7
Subtotal non-ferrous ores and scrap	58	0	0	52	5	0	0	0
4630 copper ore	0	-----	0	-----	-----	-----	-----	-----
4650 aluminum ore	17	0	-----	17	-----	-----	-----	-----
4670 manganese ore	36	-----	-----	36	-----	-----	-----	-----
4680 non-ferrous scrap	5	-----	-----	-----	5	0	0	0
Subtotal sulphur, clay and salt	70	0	-----	0	68	-----	-----	1
4782 clay & refrac. mat.	70	0	-----	0	68	-----	-----	1
Subtotal slag	329	-----	-----	-----	3	187	71	68
4860 slag	329	-----	-----	-----	3	187	71	68

DETROIT RIVER, MI
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through		Imports	Through	
				Upbound	Downbnd		Upbound	Downbnd
Subtotal other non-metal. min.	1,323	-----	-----	0	0	113	1,094	116
4900 non-metal. min. nec	1,323	-----	-----	0	0	113	1,094	116
Total primary manufactured goods	2,737	717	1	1,184	210	90	439	94
Subtotal paper products	20	1	-----	0	0	16	2	1
5110 newsprint	17	-----	-----	-----	-----	14	2	0
5120 paper & paperboard	3	1	-----	0	-----	2	-----	0
5190 paper products nec	0	0	-----	0	0	0	-----	0
Subtotal lime, cement and glass	539	2	0	3	0	70	373	90
5220 cement & concrete	534	-----	-----	-----	-----	70	373	90
5240 glass & glass prod.	0	0	0	0	0	0	0	0
5290 misc. mineral prod.	5	2	0	3	0	0	0	0
Subtotal primary iron and steel products	2,163	712	0	1,174	210	1	62	3
5312 pig iron	134	-----	-----	85	-----	-----	49	-----
5315 ferro alloys	65	-----	-----	32	-----	-----	13	-----
5320 i&s primary forms	86	40	-----	46	-----	-----	0	-----
5330 i&s plates & sheets	1,612	532	0	867	210	0	0	3
5360 i&s bars & shapes	236	106	-----	129	-----	1	-----	0
5370 i&s pipe & tube	26	14	-----	12	-----	-----	-----	0
5390 primary i&s nec	4	1	0	4	-----	-----	-----	0
Subtotal primary non-ferrous metal products	11	2	0	7	0	0	0	0
5421 copper	0	0	-----	0	0	-----	-----	0
5422 aluminum	1	0	0	0	-----	0	0	0
5429 smelted prod. nec	5	2	-----	3	-----	-----	0	0
5480 fab. metal products	4	0	0	3	0	0	0	0
Subtotal primary wood products	4	0	1	0	-----	2	1	-----
5540 primary wood prod.	4	0	1	0	-----	2	1	-----
Total food and farm products	3,805	2	1	2	1,637	1	21	2,141
Subtotal grain	3,594	-----	-----	0	1,445	0	18	2,130
6241 wheat	1,807	-----	-----	-----	951	-----	-----	856
6344 corn	509	-----	-----	-----	229	-----	-----	281
6442 rice	0	-----	-----	0	-----	-----	-----	0
6443 barley & rye	1,214	-----	-----	-----	265	-----	-----	949
6445 oats	64	-----	-----	-----	-----	0	18	45
Subtotal oilseeds	118	0	0	-----	118	-----	-----	0
6521 peanuts	0	-----	-----	-----	-----	-----	-----	0
6522 soybeans	118	0	-----	-----	118	-----	-----	-----
6590 oilseeds nec	0	-----	0	-----	0	-----	-----	-----
Subtotal vegetable products	28	0	1	0	26	-----	0	0
6653 vegetable oils	0	-----	-----	0	-----	-----	-----	0
6654 vegetables & prod.	28	0	1	0	26	-----	0	0
Subtotal processed grain and animal feed	16	0	0	0	14	0	1	0
6746 wheat flour	0	-----	-----	-----	0	-----	-----	-----
6747 grain mill products	0	0	-----	0	0	-----	-----	0

DETROIT RIVER, MI
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Foreign				Canadian		
		Imports	Exports	Through		Imports	Through	
				Upbound	Downbnd		Upbound	Downbnd
6782 animal feed, prep.	16	-----	0	0	14	0	1	0
Subtotal other agricultural products	48	2	0	1	34	-----	1	11
6811 meat, fresh, frozen	0	0	-----	-----	-----	-----	-----	-----
6817 meat, prepared	0	-----	-----	0	-----	-----	-----	-----
6822 dairy products	0	-----	-----	0	-----	-----	-----	0
6835 fish, prepared	0	0	-----	0	-----	-----	-----	-----
6838 tallow, animal oils	8	-----	-----	-----	8	-----	-----	-----
6839 animals & prod. nec	0	-----	-----	0	-----	-----	0	-----
6857 fruit & nuts nec	0	-----	0	-----	0	-----	-----	0
6858 fruit juices	1	0	0	0	0	-----	-----	0
6865 molasses	1	-----	-----	-----	-----	-----	-----	1
6871 coffee	0	-----	-----	0	-----	-----	-----	-----
6872 cocoa beans	0	-----	-----	0	-----	-----	-----	-----
6885 alcoholic beverages	11	1	-----	0	-----	-----	0	9
6888 water & ice	0	0	-----	-----	-----	-----	-----	-----
6889 food products nec	2	0	0	0	-----	-----	1	0
6899 farm products nec	25	-----	0	0	25	-----	-----	0
Total all manufactured equipment, machinery and products	347	9	2	19	14	30	270	2
7110 machinery (not elec)	131	3	2	11	13	12	90	0
7120 electrical machinery	3	1	0	1	0	0	1	0
7210 vehicles & parts	198	3	0	2	0	18	174	0
7220 aircraft & parts	0	-----	0	0	-----	0	0	0
7230 ships & boats	0	-----	0	0	0	-----	0	0
7300 ordnance & access.	0	-----	-----	-----	0	-----	-----	-----
7400 manufac. wood prod.	0	0	-----	0	-----	-----	0	1
7500 textile products	3	0	0	2	0	-----	0	0
7600 rubber & plastic pr.	8	2	0	1	0	0	6	0
7900 manufac. prod. nec	4	0	0	2	0	0	1	0
Total unknown or not elsewhere classified	25	0	-----	0	0	1	22	1
9900 unknown or nec	25	0	-----	0	0	1	22	1
Ton-miles (x1000) Foreign & Canadian	629,493	15,353	1,676	41,652	76,158	28,657	294,985	171,013

Commodity	Total	Domestic						
		Receipts	Lakewise		Internal			
			Shipments	Through	Outbound	Through	Intra	
			Upbound	Downbnd	Upbound	Downbnd	Upbound	
Total, all commodities	48,419	13,356	450	5,960	28,558	2	1	91
Total coal	8,737	1,800	-----	5,388	1,549	-----	-----	-----
1100 coal lignite	8,737	1,800	-----	5,388	1,549	-----	-----	-----

DETROIT RIVER, MI
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Domestic						
		Lakewise				Internal		
		Receipts	Shipments	Through		Outbound	Through	Intra
			Upbound	Downbnd	Upbound	Downbnd	Upbound	
Total petroleum and petroleum products	824	230	443	20	38	2	-----	91
Subtotal petroleum products	824	230	443	20	38	2	-----	91
2211 gasoline	35	-----	27	9	-----	-----	-----	-----
2330 distillate fuel oil	116	8	91	7	-----	-----	-----	10
2340 residual fuel oil	140	29	44	4	-----	2	-----	60
2430 asphalt, tar & pitch	514	193	281	-----	20	-----	-----	21
2540 petroleum coke	18	-----	-----	-----	18	-----	-----	-----
Total chemicals and related products	8	-----	8	-----	-----	-----	-----	-----
Subtotal other chemicals and related products	8	-----	8	-----	-----	-----	-----	-----
3275 inorg. elem., oxides, & halogen salts	8	-----	8	-----	-----	-----	-----	-----
Total crude materials, inedible except fuels	36,840	10,819	-----	552	25,469	-----	-----	-----
Subtotal soil, sand, gravel, rock and stone	8,796	3,142	-----	20	5,634	-----	-----	-----
4322 limestone	7,922	2,832	-----	3	5,086	-----	-----	-----
4323 gypsum	661	299	-----	-----	362	-----	-----	-----
4331 sand & gravel	213	11	-----	17	186	-----	-----	-----
Subtotal iron ore and scrap	27,320	7,490	-----	21	19,809	-----	-----	-----
4410 iron ore	27,320	7,490	-----	21	19,809	-----	-----	-----
Subtotal sulphur, clay and salt	25	-----	-----	-----	25	-----	-----	-----
4782 clay & refrac. mat.	25	-----	-----	-----	25	-----	-----	-----
Subtotal slag	94	14	-----	80	-----	-----	-----	-----
4860 slag	94	14	-----	80	-----	-----	-----	-----
Subtotal other non-metal. min.	604	173	-----	431	-----	-----	-----	-----
4900 non-metal. min. nec	604	173	-----	431	-----	-----	-----	-----
Total primary manufactured goods	1,100	506	-----	-----	593	-----	-----	-----
Subtotal lime, cement and glass	1,100	506	-----	-----	593	-----	-----	-----
5220 cement & concrete	1,100	506	-----	-----	593	-----	-----	-----
Total food and farm products	909	-----	-----	-----	909	-----	-----	-----
Subtotal grain	909	-----	-----	-----	909	-----	-----	-----
6241 wheat	909	-----	-----	-----	909	-----	-----	-----

DETROIT RIVER, MI
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Domestic							
		Lakewise				Internal			
		Receipts	Shipments	Through		Outbound	Through	Intra	
				Upbound	Downbnd	Upbound	Downbnd	Upbound	
Total all manufactured equipment, machinery and products	1	-----	-----	-----	-----	-----		1	-----
7110 machinery (not elec)	1	-----	-----	-----	-----	-----		1	-----
Ton-miles (x1000) Domestic	1,251,839	173,919	7,695	184,747	885,303		26	31	118
Tons All Traffic (x1000)		69,636							
Ton-miles All Traffic (x1000)		1,881,342							

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 tons)

Year	Total	Year	Total
1981	5,143	1986	5,084
1982	4,323	1987	5,073
1983	5,016	1988	5,677
1984	5,530	1989	9,900
1985	5,041	1990	7,553

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise	Internal
						Receipts	Receipts	Receipts
Total, all commodities	7,553	255	44	1,585	718	4,950	4,887	62
Total coal	753	-----	-----	75	53	625	625	-----
1100 coal lignite	625	-----	-----	0	-----	625	625	-----
1200 coal coke	128	-----	-----	75	53	-----	-----	-----
Total petroleum and petroleum products	245	-----	-----	18	157	70	7	62
Subtotal petroleum products	245	-----	-----	18	157	70	7	62
2211 gasoline	10	-----	-----	10	-----	-----	-----	-----
2221 kerosene	15	-----	-----	-----	15	-----	-----	-----
2330 distillate fuel oil	20	-----	-----	8	-----	12	2	10
2340 residual fuel oil	143	-----	-----	-----	85	58	5	52

DETROIT HARBOR, MI (INCLUDED IN PORT OF DETROIT)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise Receipts	Internal Receipts
2540 petroleum coke	57				57			
Total chemicals and related products	140	2	2	33	102			
Subtotal fertilizers	94				94			
3110 nitrogenous fert.	11				11			
3120 phosphatic fert.	5				5			
3130 potassic fert.	0				0			
3190 fert. & mixes nec	78				78			
Subtotal other chemicals and related products	46	2	2	33	8			
3211 acyclic hydrocarbons	0				0			
3219 other hydrocarbons	7	0	0		7			
3220 alcohols	0	0						
3230 carboxylic acids	0	0	0		0			
3240 nitrogen func. comp.	0		0		0			
3250 organo-inorgan. comp	0	0	0					
3260 organic comp. nec	0	0	0					
3273 ammonia	0			0				
3274 sodium hydroxide	0	0						
3275 inorg. elem., oxides, & halogen salts	1	0		1	0			
3276 metallic salts	7	0	0	7	0			
3279 inorganic chem. nec	1	0		1	0			
3282 pigments & paints	0	0	0					
3283 coloring mat. nec	0				0			
3284 medicines	0	0	0		0			
3285 perfumes & cleansers	1	0	1		0			
3286 plastics	1	0	1	0	0			
3291 pesticides	0	0			0			
3292 starches, gluten, glue	1	1			0			
3297 chemical additives	0		0					
3298 wood & resin chem.	0				0			
3299 chem. products nec	26	0	0	25	0			
Total crude materials, inedible except fuels	5,250	1	39	1,124	337	3,748	3,748	
Subtotal forest products, wood and chips	6	0		6	0			
4189 lumber	6	0		6	0			
Subtotal pulp and waste paper	5		2	0	3			
4225 pulp & waste paper	5		2	0	3			
Subtotal soil, sand, gravel, rock and stone	1,094	0			173	921	921	
4310 building stone	0	0						
4322 limestone	921					921	921	
4323 gypsum	0				0			
4331 sand & gravel	173	0			173			
Subtotal iron ore and scrap	3,741	1	37	740	137	2,827	2,827	
4410 iron ore	3,665			705	133	2,827	2,827	
4420 iron & steel scrap	77	1	37	35	3			

DETROIT HARBOR, MI (INCLUDED IN PORT OF DETROIT)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise Receipts	Internal Receipts
Subtotal non-ferrous ores and scrap	1	0	0	0	0	-----	-----	-----
4630 copper ore	0	-----	0	-----	-----	-----	-----	-----
4650 aluminum ore	0	0	-----	-----	-----	-----	-----	-----
4680 non-ferrous scrap	1	-----	-----	0	0	-----	-----	-----
Subtotal sulphur, clay and salt	1	0	-----	-----	1	-----	-----	-----
4782 clay & refrac. mat.	1	0	-----	-----	1	-----	-----	-----
Subtotal slag	163	-----	-----	162	1	-----	-----	-----
4860 slag	163	-----	-----	162	1	-----	-----	-----
Subtotal other non-metal. min.	238	-----	-----	215	23	-----	-----	-----
4900 non-metal. min. nec	238	-----	-----	215	23	-----	-----	-----
Total primary manufactured goods	897	244	0	90	55	506	506	-----
Subtotal paper products	18	0	-----	17	0	-----	-----	-----
5110 newsprint	15	-----	-----	15	-----	-----	-----	-----
5120 paper & paperboard	3	0	-----	2	0	-----	-----	-----
5190 paper products nec	0	0	-----	-----	0	-----	-----	-----
Subtotal lime, cement and glass	630	2	-----	70	52	506	506	-----
5220 cement & concrete	628	-----	-----	70	52	506	506	-----
5240 glass & glass prod.	0	0	-----	0	0	-----	-----	-----
5290 misc. mineral prod.	2	2	-----	0	0	-----	-----	-----
Subtotal primary iron and steel products	244	240	0	1	3	-----	-----	-----
5315 ferro alloys	4	4	-----	-----	-----	-----	-----	-----
5320 i&s primary forms	14	14	-----	-----	-----	-----	-----	-----
5330 i&s plates & sheets	150	147	0	0	3	-----	-----	-----
5360 i&s bars & shapes	70	70	-----	1	0	-----	-----	-----
5370 i&s pipe & tube	4	4	-----	-----	0	-----	-----	-----
5390 primary i&s nec	0	0	0	-----	0	-----	-----	-----
Subtotal primary non-ferrous metal products	2	2	0	0	0	-----	-----	-----
5421 copper	0	0	-----	-----	0	-----	-----	-----
5422 aluminum	0	0	0	0	0	-----	-----	-----
5429 smelted prod. nec	1	1	-----	-----	-----	-----	-----	-----
5480 fab. metal products	1	0	0	0	0	-----	-----	-----
Subtotal primary wood products	2	0	-----	2	-----	-----	-----	-----
5540 primary wood prod.	2	0	-----	2	-----	-----	-----	-----
Total food and farm products	14	2	1	1	11	-----	-----	-----
Subtotal grain	0	-----	-----	0	0	-----	-----	-----
6442 rice	0	-----	-----	-----	0	-----	-----	-----
6445 oats	0	-----	-----	0	-----	-----	-----	-----
Subtotal oilseeds	0	-----	0	-----	0	-----	-----	-----
6521 peanuts	0	-----	-----	-----	0	-----	-----	-----

DETROIT HARBOR, MI (INCLUDED IN PORT OF DETROIT)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise Receipts	Internal Receipts
6590 oilseeds nec	0	-----	0	-----	-----	-----	-----	-----
Subtotal vegetable products	1	0	1	-----	0	-----	-----	-----
6654 vegetables & prod.	1	0	1	-----	0	-----	-----	-----
Subtotal processed grain and animal feed	0	0	0	0	0	-----	-----	-----
6747 grain mill products	0	0	-----	-----	0	-----	-----	-----
6782 animal feed, prep.	0	-----	0	0	0	-----	-----	-----
Subtotal other agricultural products	12	1	0	0	11	-----	-----	-----
6811 meat, fresh, frozen	0	0	-----	-----	-----	-----	-----	-----
6822 dairy products	0	-----	-----	-----	0	-----	-----	-----
6835 fish, prepared	0	0	-----	-----	-----	-----	-----	-----
6857 fruit & nuts nec	0	-----	-----	-----	0	-----	-----	-----
6858 fruit juices	1	0	0	-----	0	-----	-----	-----
6865 molasses	1	-----	-----	-----	1	-----	-----	-----
6885 alcoholic beverages	10	1	-----	0	9	-----	-----	-----
6888 water & ice	0	0	-----	-----	-----	-----	-----	-----
6889 food products nec	0	0	0	-----	0	-----	-----	-----
6899 farm products nec	0	-----	0	-----	-----	-----	-----	-----
Total all manufactured equipment, machinery and products	251	6	2	241	1	-----	-----	-----
7110 machinery (not elec)	104	1	1	101	0	-----	-----	-----
7120 electrical machinery	1	1	0	0	0	-----	-----	-----
7210 vehicles & parts	144	3	0	140	0	-----	-----	-----
7220 aircraft & parts	0	-----	0	0	0	-----	-----	-----
7230 ships & boats	0	-----	0	-----	0	-----	-----	-----
7400 manufac. wood prod.	0	0	-----	-----	-----	-----	-----	-----
7500 textile products	0	0	-----	-----	0	-----	-----	-----
7600 rubber & plastic pr.	1	1	0	0	0	-----	-----	-----
7900 manufac. prod. nec	1	0	0	0	0	-----	-----	-----
Total unknown or not elsewhere classified	3	0	-----	2	1	-----	-----	-----
9900 unknown or nec	3	0	-----	2	1	-----	-----	-----

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 tons)

Year	Total	Year	Total
1981	9,634	1986	8,191
1982	7,469	1987	7,162
1983	8,033	1988	7,522
1984	9,127	1989	8,044
1985	8,729	1990	7,960

Freight Traffic, 1990
(thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
Total, all commodities	714	286	14	333	81
Total coal	33	-----	-----	31	2
1200 coal coke	33	-----	-----	31	2
Total petroleum and petroleum products	61	-----	-----	36	25
Subtotal petroleum products	61	-----	-----	36	25
2330 distillate fuel oil	33	-----	-----	31	2
2340 residual fuel oil	2	-----	-----	2	-----
2430 asphalt, tar & pitch	3	-----	-----	3	-----
2540 petroleum coke	23	-----	-----	-----	23
Total chemicals and related products	1	0	-----	0	-----
Subtotal fertilizers	0	-----	-----	0	-----
3190 fert. & mixes nec	0	-----	-----	0	-----
Subtotal other chemicals and related products	0	0	-----	-----	-----
3220 alcohols	0	0	-----	-----	-----
3230 carboxylic acids	0	0	-----	-----	-----
3284 medicines	0	0	-----	-----	-----
3286 plastics	0	0	-----	-----	-----
Total crude materials, inedible except fuels	334	-----	14	266	54
Subtotal soil, sand, gravel, rock and stone	50	-----	-----	-----	50
4322 limestone	50	-----	-----	-----	50
Subtotal iron ore and scrap	129	-----	14	112	4
4410 iron ore	83	-----	-----	83	-----
4420 iron & steel scrap	46	-----	14	29	4
Subtotal slag	25	-----	-----	25	0
4860 slag	25	-----	-----	25	0
Subtotal other non-metal. min.	129	-----	-----	129	-----
4900 non-metal. min. nec	129	-----	-----	129	-----

ROUGE RIVER, MI (INCLUDED IN PORT OF DETROIT)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
Total primary manufactured goods	283	283	-----	-----	-----
Subtotal paper products	0	0	-----	-----	-----
5120 paper & paperboard	0	0	-----	-----	-----
Subtotal primary iron and steel products	282	282	-----	-----	-----
5315 ferro alloys	9	9	-----	-----	-----
5320 i&s primary forms	25	25	-----	-----	-----
5330 i&s plates & sheets	218	218	-----	-----	-----
5360 i&s bars & shapes	22	22	-----	-----	-----
5370 i&s pipe & tube	8	8	-----	-----	-----
5390 primary i&s nec	0	0	-----	-----	-----
Subtotal primary non-ferrous metal products	1	1	-----	-----	-----
5422 aluminum	0	0	-----	-----	-----
5429 smelted prod. nec	1	1	-----	-----	-----
5480 fab. metal products	0	0	-----	-----	-----
Total food and farm products	1	1	-----	-----	0
Subtotal oilseeds	0	0	-----	-----	-----
6522 soybeans	0	0	-----	-----	-----
Subtotal vegetable products	0	0	-----	-----	-----
6654 vegetables & prod.	0	0	-----	-----	-----
Subtotal other agricultural products	1	0	-----	-----	0
6858 fruit juices	0	0	-----	-----	-----
6885 alcoholic beverages	0	0	-----	-----	0
6889 food products nec	0	0	-----	-----	-----
Total all manufactured equipment, machinery and products	2	2	-----	-----	-----
7110 machinery (not elec)	1	1	-----	-----	-----
7120 electrical machinery	0	0	-----	-----	-----
7210 vehicles & parts	0	0	-----	-----	-----
7600 rubber & plastic pr.	1	1	-----	-----	-----
7900 manufac. prod. nec	0	0	-----	-----	-----
Total unknown or not elsewhere classified	0	0	-----	-----	-----
9900 unknown or nec	0	0	-----	-----	-----

Commodity	Total	Domestic				
		Lakewise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	7,246	6,720	440	6	57	23
Total coal	711	711	-----	-----	-----	-----
1100 coal lignite	711	711	-----	-----	-----	-----

ROUGE RIVER, MI (INCLUDED IN PORT OF DETROIT)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Domestic				
		Lakewise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total petroleum and petroleum products	713	195	432	6	57	23
Subtotal petroleum products	713	195	432	6	57	23
2211 gasoline	17		17			
2330 distillate fuel oil	101	1	91		8	0
2340 residual fuel oil	107	7	43	6	49	2
2430 asphalt, tar & pitch	488	186	281			21
Total chemicals and related products	8		8			
Subtotal other chemicals and related products	8		8			
3275 inorg. elem., oxides, & halogen salts	8		8			
Total crude materials, inedible except fuels	5,814	5,814				
Subtotal soil, sand, gravel, rock and stone	2,147	2,147				
4322 limestone	1,837	1,837				
4323 gypsum	299	299				
4331 sand & gravel	11	11				
Subtotal iron ore and scrap	3,491	3,491				
4410 iron ore	3,491	3,491				
Subtotal slag	14	14				
4860 slag	14	14				
Subtotal other non-metal. min.	161	161				
4900 non-metal. min. nec	161	161				

ECORSE, MI (INCLUDED IN PORT OF DETROIT)

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

Comparative Statement of Traffic
(thousand tons)

Year	Total	Year	Total
1981	183	1986	400
1982	153	1987	185
1983	390	1988	483
1984	554	1989	641
1985	440	1990	268

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Foreign		Canadian Imports	Domestic			
		Imports	Exports		Total	Lakewise	Internal Shipments	
				Receipts		Shipments		
Total, all commodities	268	191	17	7	53	40	1	13
Total petroleum and petroleum products	46	-----	-----	4	42	28	1	13
Subtotal petroleum products	46	-----	-----	4	42	28	1	13
2330 distillate fuel oil	6	-----	-----	-----	6	4	-----	2
2340 residual fuel oil	28	-----	-----	-----	28	17	1	11
2430 asphalt, tar & pitch	11	-----	-----	4	7	7	-----	-----
Total chemicals and related products	0	0	0	-----	-----	-----	-----	-----
Subtotal other chemicals and related products	0	0	0	-----	-----	-----	-----	-----
3219 other hydrocarbons	0	0	0	-----	-----	-----	-----	-----
3220 alcohols	0	0	-----	-----	-----	-----	-----	-----
3250 organo-inorgan. comp	0	-----	0	-----	-----	-----	-----	-----
3275 inorg. elem., oxides, & halogen salts	0	-----	0	-----	-----	-----	-----	-----
3299 chem. products nec	0	-----	0	-----	-----	-----	-----	-----
Total crude materials, inedible except fuels	30	-----	16	3	12	12	-----	-----
Subtotal forest products, wood and chips	0	-----	0	-----	-----	-----	-----	-----
4189 lumber	0	-----	0	-----	-----	-----	-----	-----
Subtotal pulp and waste paper	0	-----	0	-----	-----	-----	-----	-----
4225 pulp & waste paper	0	-----	0	-----	-----	-----	-----	-----
Subtotal iron ore and scrap	16	-----	16	-----	-----	-----	-----	-----
4420 iron & steel scrap	16	-----	16	-----	-----	-----	-----	-----
Subtotal other non-metal. min.	14	-----	-----	3	12	12	-----	-----
4900 non-metal. min. nec	14	-----	-----	3	12	12	-----	-----

ECORSE, MI (INCLUDED IN PORT OF DETROIT)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian	Domestic		
		Imports	Exports	Imports	Total	Lakewise	Internal
					Receipts	Shipments	Shipments
Total primary manufactured goods	191	190	1				
Subtotal paper products	0	0					
5120 paper & paperboard	0	0					
Subtotal lime, cement and glass	0	0	0				
5240 glass & glass prod.	0		0				
5290 misc. mineral prod.	0	0	0				
Subtotal primary iron and steel products	190	190					
5315 ferro alloys	7	7					
5320 i&s primary forms	0	0					
5330 i&s plates & sheets	167	167					
5360 i&s bars & shapes	15	15					
5370 i&s pipe & tube	2	2					
5390 primary i&s nec	0	0					
Subtotal primary non-ferrous metal products	0	0	0				
5429 smelted prod. nec	0	0					
5480 fab. metal products	0	0	0				
Subtotal primary wood products	1		1				
5540 primary wood prod.	1		1				
Total food and farm products	0	0	0				
Subtotal processed grain and animal feed	0		0				
6782 animal feed, prep.	0		0				
Subtotal other agricultural products	0	0	0				
6857 fruit & nuts nec	0		0				
6885 alcoholic beverages	0	0					
Total all manufactured equipment, machinery and products	1	1	0	0			
7110 machinery (not elec)	1	1	0				
7120 electrical machinery	0	0	0				
7210 vehicles & parts	0	0	0				
7230 ships & boats	0		0				
7500 textile products	0		0				
7600 rubber & plastic pr.	0	0	0				
7900 manufac. prod. nec	0			0			

TRENTON, MI (INCLUDED IN PORT OF DETROIT)

Section Included: U.S. shore of Detroit River from foot of Sibley Road to foot of Parkway Drive. Controlling and Project Depths: 28 feet.

Comparative Statement of Traffic
(thousand tons)

Year	Total	Year	Total
1981	2,570	1986	1,346
1982	1,105	1987	1,677
1983	1,396	1988	1,654
1984	2,084	1989	2,043
1985	1,298	1990	1,885

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	
					Receipts	Shipments
Total, all commodities	1,885	294	9	1,583	1,573	10
Total coal	328	-----	-----	328	328	-----
1100 coal lignite	328	-----	-----	328	328	-----
Total petroleum and petroleum products	60	41	9	10	-----	10
Subtotal petroleum products	60	41	9	10	-----	10
2211 gasoline	31	21	-----	10	-----	10
2330 distillate fuel oil	9	9	-----	-----	-----	-----
2340 residual fuel oil	11	11	-----	-----	-----	-----
2540 petroleum coke	9	-----	9	-----	-----	-----
Total crude materials, inedible except fuels	1,498	253	-----	1,245	1,245	-----
Subtotal soil, sand, gravel, rock and stone	74	-----	-----	74	74	-----
4322 limestone	74	-----	-----	74	74	-----
Subtotal iron ore and scrap	1,424	253	-----	1,172	1,172	-----
4410 iron ore	1,424	253	-----	1,172	1,172	-----

PORT OF DETROIT, MI

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

Comparative Statement of Traffic
(thousand tons)

Year	Total	Year	Total
1981	17,839	1986	15,219
1982	13,176	1987	14,130
1983	14,955	1988	15,331
1984	17,531	1989	20,701
1985	15,612	1990	17,735

Freight Traffic, 1990
(thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
Total, all commodities	3,835	732	75	2,219	807
Total coal	161			107	55
1100 coal lignite	0			0	
1200 coal coke	161			106	55
Total petroleum and petroleum products	291			100	191
Subtotal petroleum products	291			100	191
2211 gasoline	32			32	
2221 kerosene	15				15
2330 distillate fuel oil	49			47	2
2340 residual fuel oil	99			13	85
2430 asphalt, tar & pitch	7			7	
2540 petroleum coke	89				89
Total chemicals and related products	141	3	2	34	102
Subtotal fertilizers	95			0	94
3110 nitrogenous fert.	11				11
3120 phosphatic fert.	5				5
3130 potassic fert.	0				0
3190 fert. & mixes nec	78			0	78
Subtotal other chemicals and related products	46	3	2	33	8
3211 acyclic hydrocarbons	0				0
3219 other hydrocarbons	7	0	0		7
3220 alcohols	0	0			
3230 carboxylic acids	0	0	0		0
3240 nitrogen func. comp.	0		0		0
3250 organo-inorgan. comp	0	0	0		
3260 organic comp. nec	0	0	0		
3273 ammonia	0			0	
3274 sodium hydroxide	0	0			
3275 inorg. elem., oxides, & halogen salts	1	0	0	1	0
3276 metallic salts	7	0	0	7	0
3279 inorganic chem. nec	1	0		1	0
3282 pigments & paints	0	0	0		
3283 coloring mat. nec	0				0
3284 medicines	0	0	0		0

PORT OF DETROIT, MI
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
3285 perfumes & cleansers	1	0	1	-----	0
3286 plastics	1	1	1	0	0
3291 pesticides	0	0	-----	-----	0
3292 starches,gluten,glue	1	1	-----	-----	0
3297 chemical additives	0	-----	0	-----	-----
3298 wood & resin chem.	0	-----	-----	-----	0
3299 chem. products nec	26	0	0	25	0
Total crude materials, inedible except fuels	2,106	1	69	1,645	391
Subtotal forest products, wood and chips	6	0	0	6	0
4189 lumber	6	0	0	6	0
Subtotal pulp and waste paper	5	-----	2	0	3
4225 pulp & waste paper	5	-----	2	0	3
Subtotal soil, sand, gravel, rock and stone	223	0	-----	-----	223
4310 building stone	0	0	-----	-----	-----
4322 limestone	50	-----	-----	-----	50
4323 gypsum	0	-----	-----	-----	0
4331 sand & gravel	173	0	-----	-----	173
Subtotal iron ore and scrap	1,312	1	67	1,105	140
4410 iron ore	1,174	-----	-----	1,041	133
4420 iron & steel scrap	138	1	67	64	7
Subtotal non-ferrous ores and scrap	1	0	0	0	0
4630 copper ore	0	-----	0	-----	-----
4650 aluminum ore	0	0	-----	-----	-----
4680 non-ferrous scrap	1	-----	-----	0	0
Subtotal sulphur, clay and salt	1	0	-----	-----	1
4782 clay & refrac. mat.	1	0	-----	-----	1
Subtotal slag	188	-----	-----	187	1
4860 slag	188	-----	-----	187	1
Subtotal other non-metal. min.	369	-----	-----	347	23
4900 non-metal. min. nec	369	-----	-----	347	23
Total primary manufactured goods	864	717	1	90	55
Subtotal paper products	18	1	-----	17	0
5110 newsprint	15	-----	-----	15	-----
5120 paper & paperboard	3	1	-----	2	0
5190 paper products nec	0	0	-----	-----	0
Subtotal lime, cement and glass	124	2	0	70	52
5220 cement & concrete	122	-----	-----	70	52
5240 glass & glass prod.	0	0	0	0	0
5290 misc. mineral prod.	2	2	0	0	0
Subtotal primary iron and steel products	716	712	0	1	3
5315 ferro alloys	20	20	-----	-----	-----
5320 i&s primary forms	40	40	-----	-----	-----
5330 i&s plates & sheets	535	532	0	0	3
5360 i&s bars & shapes	107	106	-----	1	0
5370 i&s pipe & tube	14	14	-----	-----	0
5390 primary i&s nec	1	1	0	-----	0

PORT OF DETROIT, MI
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
Subtotal primary non-ferrous metal products	3	2	0	0	0
5421 copper	0	0	0	0	0
5422 aluminum	0	0	0	0	0
5429 smelted prod. nec	2	2	0	0	0
5480 fab. metal products	1	0	0	0	0
Subtotal primary wood products	3	0	1	2	0
5540 primary wood prod.	3	0	1	2	0
Total food and farm products	15	2	1	1	11
Subtotal grain	0	0	0	0	0
6442 rice	0	0	0	0	0
6445 oats	0	0	0	0	0
Subtotal oilseeds	0	0	0	0	0
6521 peanuts	0	0	0	0	0
6522 soybeans	0	0	0	0	0
6590 oilseeds nec	0	0	0	0	0
Subtotal vegetable products	1	0	1	0	0
6654 vegetables & prod.	1	0	1	0	0
Subtotal processed grain and animal feed	0	0	0	0	0
6747 grain mill products	0	0	0	0	0
6782 animal feed, prep.	0	0	0	0	0
Subtotal other agricultural products	13	2	0	0	11
6811 meat, fresh, frozen	0	0	0	0	0
6822 dairy products	0	0	0	0	0
6835 fish, prepared	0	0	0	0	0
6857 fruit & nuts nec	0	0	0	0	0
6858 fruit juices	1	0	0	0	0
6865 molasses	1	0	0	0	0
6885 alcoholic beverages	11	1	0	0	9
6888 water & ice	0	0	0	0	0
6889 food products nec	0	0	0	0	0
6899 farm products nec	0	0	0	0	0
Total all manufactured equipment, machinery and products	254	9	2	241	1
7110 machinery (not elec)	106	3	2	101	0
7120 electrical machinery	1	1	0	0	0
7210 vehicles & parts	144	3	0	140	0
7220 aircraft & parts	0	0	0	0	0
7230 ships & boats	0	0	0	0	0
7400 manufac. wood prod.	0	0	0	0	0
7500 textile products	0	0	0	0	0
7600 rubber & plastic pr.	2	2	0	0	0
7900 manufac. prod. nec	1	0	0	0	0
Total unknown or not elsewhere classified	3	0	0	2	1
9900 unknown or nec	3	0	0	2	1

PORT OF DETROIT, MI
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Total	Domestic				
		Lakewise		Internal		
		Receipts	Shipments	Receipts	Shipments	Intraport
Total, all commodities	13,900	13,356	450	68	2	23
Total coal	1,800	1,800	-----	-----	-----	-----
1100 coal lignite	1,800	1,800	-----	-----	-----	-----
Total petroleum and petroleum products	766	230	443	68	2	23
Subtotal petroleum products	766	230	443	68	2	23
2211 gasoline	27	-----	27	-----	-----	-----
2330 distillate fuel oil	109	8	91	10	-----	0
2340 residual fuel oil	136	29	44	58	2	2
2430 asphalt, tar & pitch	495	193	281	-----	-----	21
Total chemicals and related products	8	-----	8	-----	-----	-----
Subtotal other chemicals and related products	8	-----	8	-----	-----	-----
3275 inorg. elem., oxides, & halogen salts	8	-----	8	-----	-----	-----
Total crude materials, inedible except fuels	10,819	10,819	-----	-----	-----	-----
Subtotal soil, sand, gravel, rock and stone	3,142	3,142	-----	-----	-----	-----
4322 limestone	2,832	2,832	-----	-----	-----	-----
4323 gypsum	299	299	-----	-----	-----	-----
4331 sand & gravel	11	11	-----	-----	-----	-----
Subtotal iron ore and scrap	7,490	7,490	-----	-----	-----	-----
4410 iron ore	7,490	7,490	-----	-----	-----	-----
Subtotal slag	14	14	-----	-----	-----	-----
4860 slag	14	14	-----	-----	-----	-----
Subtotal other non-metal. min.	173	173	-----	-----	-----	-----
4900 non-metal. min. nec	173	173	-----	-----	-----	-----
Total primary manufactured goods	506	506	-----	-----	-----	-----
Subtotal lime, cement and glass	506	506	-----	-----	-----	-----
5220 cement & concrete	506	506	-----	-----	-----	-----

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 tons)

Year	Total	Year	Total
1981	2,782	1986	623
1982	2,401	1987	1,178
1983	2,570	1988	1,123
1984	2,399	1989	1,490
1985	793	1990	1,585

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Canadian	Domestic
		Imports	Lakewise Receipts
Total, all commodities	1,585	17	1,568
Total coal	1,549	-----	1,549
1100 coal lignite	1,549	-----	1,549
Total petroleum and petroleum products	18	-----	18
Subtotal petroleum products	18	-----	18
2540 petroleum coke	18	-----	18
Total primary manufactured goods	17	17	-----
Subtotal lime, cement and glass	17	17	-----
5220 cement & concrete	17	17	-----

CALCITE, MI

NON-CORPS PROJECT

Comparative Statement of Traffic
(thousand tons)

Year	Total	Year	Total
1981	7,975	1986	6,843
1982	5,269	1987	8,159
1983	6,116	1988	10,205
1984	7,789	1989	9,238
1985	7,740	1990	10,058

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	
					Receipts	Shipments
Total, all commodities	10,058	65	1,523	8,470	240	8,230
Total coal	8	-----	-----	8	8	-----
1100 coal lignite	8	-----	-----	8	8	-----
Total crude materials, inedible except fuels	10,030	45	1,523	8,462	232	8,230
Subtotal soil, sand, gravel, rock and stone	9,905	-----	1,523	8,383	232	8,151
4322 limestone	9,905	-----	1,523	8,383	232	8,151
Subtotal sulphur, clay and salt	79	-----	-----	79	-----	79
4782 clay & refrac. mat.	79	-----	-----	79	-----	79
Subtotal slag	28	28	-----	-----	-----	-----
4860 slag	28	28	-----	-----	-----	-----
Subtotal other non-metal. min.	17	17	-----	-----	-----	-----
4900 non-metal. min. nec	17	17	-----	-----	-----	-----
Total unknown or not elsewhere classified	20	20	-----	-----	-----	-----
9900 unknown or nec	20	20	-----	-----	-----	-----

ESCANABA, MI

NON-CORPS PROJECT

Comparative Statement of Traffic
(thousand tons)

Year	Total	Year	Total
1981	10,062	1986	8,720
1982	6,507	1987	6,113
1983	8,670	1988	7,873
1984	10,454	1989	6,767
1985	8,676	1990	6,400

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Canadian Exports	Domestic			
			Total	Lakewise		Internal Receipts
				Receipts	Shipments	
Total, all commodities	6,400	21	6,379	726	5,644	9
Total coal	312	-----	312	312	-----	-----
1100 coal lignite	312	-----	312	312	-----	-----
Total petroleum and petroleum products	109	-----	109	109	-----	-----
Subtotal petroleum products	109	-----	109	109	-----	-----
2211 gasoline	61	-----	61	61	-----	-----
2330 distillate fuel oil	48	-----	48	48	-----	-----
Total chemicals and related products	9	-----	9	-----	-----	9
Subtotal other chemicals and related products	9	-----	9	-----	-----	9
3274 sodium hydroxide	9	-----	9	-----	-----	9
Total crude materials, inedible except fuels	5,970	21	5,949	305	5,644	-----
Subtotal soil, sand, gravel, rock and stone	326	21	305	305	-----	-----
4322 limestone	326	21	305	305	-----	-----
Subtotal iron ore and scrap	5,644	-----	5,644	-----	5,644	-----
4410 iron ore	5,644	-----	5,644	-----	5,644	-----
Total all manufactured equipment, machinery and products	0	0	-----	-----	-----	-----
7110 machinery (not elec)	0	0	-----	-----	-----	-----

STONEPORT, MI

NON-CORPS PROJECT

Comparative Statement of Traffic
(thousand tons)

Year	Total	Year	Total
1981	6,142	1986	6,643
1982	3,943	1987	8,186
1983	5,347	1988	8,337
1984	5,946	1989	8,888
1985	6,501	1990	8,694

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Canadian Exports	Domestic		
			Total	Lakewise	
				Receipts	Shipments
Total, all commodities	8,694	937	7,756	361	7,396
Total crude materials, inedible except fuels	8,694	937	7,756	361	7,396
Subtotal soil, sand, gravel, rock and stone	8,694	937	7,756	361	7,396
4322 limestone	8,679	922	7,756	361	7,396
4323 gypsum	15	15			

Other Harbors and Waterways

Harbor or Waterway	Commodity	Tons Thousand
Project		
ALGOMA HARBOR, WI	No Commerce Reported	
ALGONAC, MI (INCLUDED IN ST. CLAIR RIVER)	No Commerce Reported	
AU SABLE HARBOR AND RIVER (OSCODA), MI	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	
CHEBOYGAN HARBOR, MI	1100 coal lignite	5
	2211 gasoline	88
	2330 distillate fuel oil	42
	2350 lube oil & greases	0
	5480 fab. metal products	0
	7120 electrical machinery	0
	Total Tons(x1000)	134
DETOUR, MI AND VICINITY (INCLUDED IN ST. MARYS RIVER)	3230 carboxylic acids	0
	7210 vehicles & parts	0
	Total Tons(x1000)	0
DETROIT HARBOR, WI	2211 gasoline	1
	2330 distillate fuel oil	1
	2540 petroleum coke	0
	2640 liquid natural gas	0
	4170 wood in the rough	1
	6134 fish (not shellfish)	0
	7110 machinery (not elec)	0
	7900 manufac. prod. nec	1
	9900 unknown or nec	2
Total Tons(x1000)	7	
EAGLE HARBOR, MI	No Commerce Reported	
FRANKFORT HARBOR, MI	2430 asphalt, tar & pitch	100
	Total Tons(x1000)	100

Other Harbors and Waterways - continued

Harbor or Waterway	Commodity	Tons Thousand
Project		
GLADSTONE HARBOR, MI	1100 coal lignite 2430 asphalt, tar & pitch 4900 non-metal. min. nec	100 30 24
	Total Tons(x1000)	153
GRAND MARAIS HARBOR (HARBOR OF REFUGE), MI	No Commerce Reported	
GRAND TRAVERSE BAY HARBOR, MI	No Commerce Reported	
HARBOR BEACH, MI (HARBOR OF REFUGE, LAKE HURON)	1100 coal lignite 4322 limestone	72 27
	Total Tons(x1000)	98
HARRISVILLE HARBOR, MI (HARBOR OF REFUGE, LAKE HURON)	No Commerce Reported	
KENOSHA HARBOR, WI	5480 fab. metal products 7110 machinery (not elec)	0 0
	Total Tons(x1000)	0
KEWAUNEE HARBOR, WI	3120 phosphatic fert. 3275 inorg. elem., oxides, & halogen salts 3276 metallic salts 3298 wood & resin chem. 4189 lumber 4225 pulp & waste paper 4310 building stone 4331 sand & gravel 4782 clay & refrac. mat. 4900 non-metal. min. nec 5120 paper & paperboard 5190 paper products nec 5220 cement & concrete 5390 primary i&s nec 6654 vegetables & prod. 6782 animal feed, prep. 6811 meat, fresh, frozen 6865 molasses 6885 alcoholic beverages 7400 manufac. wood prod. 7600 rubber & plastic pr. 7900 manufac. prod. nec	2 15 11 0 25 0 0 5 10 1 68 55 7 0 4 5 0 0 0 2 13 4
	Total Tons(x1000)	227
KEWEENAW WATERWAY, MI	1100 coal lignite 2211 gasoline 2330 distillate fuel oil 3286 plastics	57 0 0 0

Other Harbors and Waterways - continued

Harbor or Waterway	Commodity	Tons Thousand
Project		
KEWEENAW WATERWAY, MI - continued	3293 explosives	0
	4170 wood in the rough	0
	4189 lumber	0
	4331 sand & gravel	1
	4900 non-metal. min. nec	27
	5220 cement & concrete	0
	5240 glass & glass prod.	0
	5290 misc. mineral prod.	0
	5370 i&s pipe & tube	0
	5480 fab. metal products	0
	7110 machinery (not elec)	0
	7120 electrical machinery	0
	7210 vehicles & parts	0
	7230 ships & boats	0
	7400 manufac. wood prod.	0
7500 textile products	0	
7900 manufac. prod. nec	0	
	Total Tons(x1000)	86
	Total Ton-miles(x1000)	1,003
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	
MACKINAC HARBOR, MI	2211 gasoline	5
	2540 petroleum coke	14
	4322 limestone	24
	7110 machinery (not elec)	0
	7900 manufac. prod. nec	13
	Total Tons(x1000)	57
MACKINAW CITY HARBOR, MI	2211 gasoline	148
	2330 distillate fuel oil	53
		Total Tons(x1000)
MANISTIQUE HARBOR, MI	No Commerce Reported	
MANITOWOC HARBOR, WI	1100 coal lignite	92
	5220 cement & concrete	109
		Total Tons(x1000)
MENOMINEE HARBOR AND RIVER, MI AND WI	1100 coal lignite	68
	4225 pulp & waste paper	1
	4900 non-metal. min. nec	23
	5312 pig iron	9

Other Harbors and Waterways - continued

Harbor or Waterway	Commodity	Tons Thousand
Project		
MENOMINEE HARBOR AND RIVER, MI AND WI - continued	5480 fab. metal products	0
	Total Tons(x1000)	102
NEW BUFFALO HARBOR MI	No Commerce Reported	
OCONTO HARBOR, WI	No Commerce Reported	
ONTONAGON HARBOR, MI	1100 coal lignite	174
	Total Tons(x1000)	174
PENSANKEE HARBOR, WI	No Commerce Reported	
PENTWATER HARBOR, MI	No Commerce Reported	
PORT SANILAC HARBOR, MI	No Commerce Reported	
PORT WASHINGTON HARBOR, WI	1100 coal lignite	139
	Total Tons(x1000)	139
PUT-IN-BAY HARBOR, OH	7900 manufac. prod. nec	0
	9900 unknown or nec	1
	Total Tons(x1000)	1
RACINE HARBOR, WI	No Commerce Reported	
ROGERS CITY, MI	No Commerce Reported	
SAUGATUCK HARBOR AND KALAMAZOO RIVER, MI	No Commerce Reported	
SAULT STE. MARIE, MI (INCLUDED IN ST. MARYS RIVER)	2330 distillate fuel oil	5
	2350 lube oil & greases	0
	3250 organo-inorgan. comp	0
	3284 medicines	0
	3291 pesticides	0
	4170 wood in the rough	0
	4189 lumber	0
	4225 pulp & waste paper	0
	4331 sand & gravel	29
	4420 iron & steel scrap	5
	4900 non-metal. min. nec	79
	5120 paper & paperboard	0
	5290 misc. mineral prod.	0

Other Harbors and Waterways - continued

Harbor or Waterway	Commodity	Tons Thousand
Project		
SAULT STE. MARIE, MI (INCLUDED IN ST. MARYS RIVER) - continued	5422 aluminum 5480 fab. metal products 5540 primary wood prod. 6590 oilseeds nec 6654 vegetables & prod. 6858 fruit juices 6885 alcoholic beverages 6889 food products nec 7110 machinery (not elec) 7120 electrical machinery 7210 vehicles & parts 7230 ships & boats	0 0 0 0 0 0 0 0 0 0 0
	Total Tons(x1000)	119
SEBEWAING, MI	No Commerce Reported	
SHEBOYGAN HARBOR, WI	3276 metallic salts 4900 non-metal. min. nec	19 20
	Total Tons(x1000)	39
SOUTH HAVEN HARBOR, MI	No Commerce Reported	
ST. JAMES (BEAVER ISLAND), MI	7900 manufac. prod. nec 9900 unknown or nec	3 1
	Total Tons(x1000)	4
STURGEON BAY AND LAKE MICHIGAN SHIP CANAL, WI	No Commerce Reported	
TRAVERSE CITY HARBOR, MI	1100 coal lignite 2211 gasoline 2330 distillate fuel oil	52 132 26
	Total Tons(x1000)	210
TWO RIVERS HARBOR, WI	No Commerce Reported	
WHITE LAKE HARBOR, MI	No Commerce Reported	
WHITEFISH POINT HARBOR, MI	No Commerce Reported	
WYANDOTTE, MI (INCLUDED IN PORT OF DETROIT)	1100 coal lignite 7110 machinery (not elec) 7120 electrical machinery 7210 vehicles & parts 7900 manufac. prod. nec	137 0 0 0 0

Other Harbors and Waterways - continued

Harbor or Waterway	Commodity	Tons Thousand
Project		
WYANDOTTE, MI (INCLUDED IN PORT OF DETROIT) - continued	9900 unknown or nec	0
	Total Tons(x1000)	137
Non-project		
ALABASTER, MI	4323 gypsum	563
	Total Tons(x1000)	563
MARBLEHEAD, OH	4322 limestone	980
	Total Tons(x1000)	980
PORT DOLOMITE, MI	3110 nitrogenous fert.	0
	3274 sodium hydroxide	0
	3275 inorg. elem. oxides, & halogen salts	0
	4322 limestone	4,610
	4331 sand & gravel	13
	4782 clay & refrac. mat.	94
	4860 slag	1
	Total Tons(x1000)	4,718
PORT GYPSUM, MI	2330 distillate fuel oil	7
	3286 plastics	0
	4323 gypsum	469
	4900 non-metal. min. nec	13
	5390 primary i&s nec	0
	Total Tons(x1000)	490

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 tons)

Year	Total	Year	Total
1981	22,962	1986	17,819
1982	16,394	1987	16,212
1983	17,409	1988	14,742
1984	20,837	1989	14,806
1985	18,400	1990	14,668

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Imports	Exports	Imports	Exports	Total	Lakewise	Internal	
						Receipts	Shipments		Intraport
Total, all commodities	14,668	265	442	842	5,576	7,544	3,989	3,552	3
Total coal	8,427	-----	5	-----	5,067	3,355	-----	3,355	-----
1100 coal lignite	8,427	-----	5	-----	5,067	3,355	-----	3,355	-----
1200 coal coke	0	-----	0	-----	0	-----	-----	-----	-----
Total petroleum and petroleum products	319	-----	0	34	62	223	23	197	3
Subtotal crude petroleum	7	-----	-----	7	-----	-----	-----	-----	-----
2100 crude petroleum	7	-----	-----	7	-----	-----	-----	-----	-----
Subtotal petroleum products	312	-----	0	27	62	223	23	197	3
2211 gasoline	79	-----	-----	-----	48	31	-----	31	-----
2330 distillate fuel oil	49	-----	-----	27	-----	22	1	19	3
2340 residual fuel oil	151	-----	-----	-----	-----	151	3	148	-----
2350 lube oil & greases	0	-----	0	-----	-----	-----	-----	-----	-----
2430 asphalt, tar & pitch	20	-----	-----	-----	-----	20	20	-----	-----
2540 petroleum coke	14	-----	-----	-----	14	-----	-----	-----	-----

TOLEDO HARBOR, OH
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Imports	Exports	Imports	Exports	Total	Lakewise		Internal Intraport
							Receipts	Shipments	
Total chemicals and related products	466	30	2	434					
Subtotal fertilizers	439	6		434					
3110 nitrogenous fert.	56	6		50					
3130 potassic fert.	383			383					
Subtotal other chemicals and related products	26	25	2						
3219 other hydrocarbons	0		0						
3220 alcohols	0		0						
3230 carboxylic acids	0		0						
3250 organo-inorgan. comp	0	0	0						
3260 organic comp. nec	0		0						
3275 inorg. elem., oxides, & halogen salts	0	0	0						
3276 metallic salts	25	25	0						
3282 pigments & paints	0		0						
3283 coloring mat. nec	0		0						
3285 perfumes & cleansers	0		0						
3286 plastics	1		1						
3292 starches, gluten, glue	0		0						
3297 chemical additives	0		0						
3299 chem. products nec	0		0						
Total crude materials, inedible except fuels	4,110	8	3	213	58	3,827	3,827		
Subtotal forest products, wood and chips	1		1						
4170 wood in the rough	0		0						
4189 lumber	1		1						
Subtotal pulp and waste paper	0		0						
4225 pulp & waste paper	0		0						

TOLEDO HARBOR, OH
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise	Internal
						Receipts	Shipments	Intraport
Subtotal soil, sand, gravel, rock and stone	170	0	0	114	23	33	33	-----
4322 limestone	24	-----	0	-----	23	-----	-----	-----
4331 sand & gravel	146	0	-----	114	-----	33	33	-----
Subtotal iron ore and scrap	3,739	-----	2	-----	35	3,702	3,702	-----
4410 iron ore	3,737	-----	-----	-----	35	3,702	3,702	-----
4420 iron & steel scrap	2	-----	2	-----	-----	-----	-----	-----
Subtotal non-ferrous ores and scrap	0	-----	0	-----	-----	-----	-----	-----
4650 aluminum ore	0	-----	0	-----	-----	-----	-----	-----
4680 non-ferrous scrap	0	-----	0	-----	-----	-----	-----	-----
Subtotal sulphur, clay and salt	7	7	0	-----	-----	-----	-----	-----
4782 clay & refrac. mat.	7	7	0	-----	-----	-----	-----	-----
Subtotal slag	31	-----	-----	31	-----	-----	-----	-----
4860 slag	31	-----	-----	31	-----	-----	-----	-----
Subtotal other non-metal. min.	162	-----	0	69	-----	93	93	-----
4900 non-metal. min. nec	162	-----	0	69	-----	93	93	-----
Total primary manufactured goods	383	227	9	9	-----	138	138	-----
Subtotal paper products	1	-----	1	-----	-----	-----	-----	-----
5120 paper & paperboard	1	-----	1	-----	-----	-----	-----	-----
5190 paper products nec	0	-----	0	-----	-----	-----	-----	-----
Subtotal lime, cement and glass	138	-----	0	-----	-----	138	138	-----
5220 cement & concrete	138	-----	-----	-----	-----	138	138	-----
5240 glass & glass prod.	0	-----	0	-----	-----	-----	-----	-----
5290 misc. mineral prod.	0	-----	0	-----	-----	-----	-----	-----
Subtotal primary iron and steel products	185	168	7	9	-----	-----	-----	-----
5312 pig iron	9	-----	-----	9	-----	-----	-----	-----
5320 i&s primary forms	8	0	7	-----	-----	-----	-----	-----
5330 i&s plates & sheets	75	75	0	-----	-----	-----	-----	-----

TOLEDO HARBOR, OH
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Imports	Exports	Imports	Exports	Total	Lakewise Receipts	Shipments	Internal Intraport
5360 i&s bars & shapes	89	89							
5370 i&s pipe & tube	2	2	0						
5390 primary i&s nec	2	2							
Subtotal primary non-ferrous metal products	59	59	0						
5422 aluminum	0	0	0						
5429 smelted prod. nec	59	59	0						
5480 fab. metal products	0	0							
Total food and farm products	963	0	422	152	389				
Subtotal fish	3		3						
6134 fish (not shellfish)	3		3						
6136 shellfish	0		0						
Subtotal grain	767		294	152	320				
6241 wheat	151		34	110	8				
6344 corn	574		261		313				
6445 oats	42			42					
Subtotal oilseeds	192		124		68				
6522 soybeans	192		124		68				
Subtotal vegetable products	1				1				
6654 vegetables & prod.	1				1				
Subtotal processed grain and animal feed	0		0						
6747 grain mill products	0		0						
6782 animal feed, prep.	0		0						
Subtotal other agricultural products	0	0	0		0				
6811 meat, fresh, frozen	0		0						
6839 animals & prod. nec	0		0						
6857 fruit & nuts nec	0		0						
6885 alcoholic beverages	0	0			0				
6889 food products nec	0		0						

TOLEDO HARBOR, OH
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic			
		Imports	Exports	Imports	Exports	Total	Lakewise		Internal
							Receipts	Shipments	
Total all manufactured equipment, machinery and products	1	0	1	0					
7110 machinery (not elec)	0	0	0						
7120 electrical machinery	0		0						
7210 vehicles & parts	0		0						
7230 ships & boats	0		0	0					
7500 textile products	0	0	0						
7600 rubber & plastic pr.	0		0						
7900 manufac. prod. nec	0		0						
Total unknown or not elsewhere classified	0		0						
9900 unknown or nec	0		0						

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 tons)

Year	Total	Year	Total
1981	5,949	1986	4,135
1982	5,065	1987	3,319
1983	4,344	1988	4,831
1984	4,790	1989	4,485
1985	4,586	1990	4,600

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Foreign	Canadian		Domestic		
		Exports	Imports	Exports	Total	Lakewise	
					Receipts	Shipments	
Total, all commodities	4,600	9	26	3,200	1,365	262	1,103
Total coal	4,296	-----	-----	3,200	1,096	-----	1,096
1100 coal lignite	4,296	-----	-----	3,200	1,096	-----	1,096
Total petroleum and petroleum products	1	-----	-----	-----	1	-----	1
Subtotal petroleum products	1	-----	-----	-----	1	-----	1
2211 gasoline	0	-----	-----	-----	0	-----	0
2330 distillate fuel oil	0	-----	-----	-----	0	-----	0
2430 asphalt, tar & pitch	0	-----	-----	-----	0	-----	0
2640 liquid natural gas	0	-----	-----	-----	0	-----	0
Total chemicals and related products	0	-----	-----	-----	0	-----	0
Subtotal fertilizers	0	-----	-----	-----	0	-----	0
3110 nitrogenous fert.	0	-----	-----	-----	0	-----	0
Subtotal other chemicals and related products	0	-----	-----	-----	0	-----	0
3275 inorg. elem., oxides, & halogen salts	0	-----	-----	-----	0	-----	0
Total crude materials, inedible except fuels	290	-----	26	-----	264	262	2
Subtotal forest products, wood and chips	1	-----	-----	-----	1	-----	1
4189 lumber	1	-----	-----	-----	1	-----	1
Subtotal soil, sand, gravel, rock and stone	223	-----	-----	-----	223	221	1
4322 limestone	26	-----	-----	-----	26	26	-----
4323 gypsum	113	-----	-----	-----	113	113	-----
4331 sand & gravel	84	-----	-----	-----	84	83	1

SANDUSKY HARBOR, OH
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic	
		Exports	Imports	Exports	Total	Lakewise	
					Receipts	Shipments	
4338 soil & fill dirt	0				0		0
Subtotal iron ore and scrap	26			26	0		0
4410 iron ore	26			26	0		0
4420 iron & steel scrap	0				0		0
Subtotal other non-metal. min.	40				40	40	
4900 non-metal. min. nec	40				40	40	
Total primary manufactured goods	1	0			1		1
Subtotal lime, cement and glass	1				1		1
5210 lime	0				0		0
5220 cement & concrete	0				0		0
5290 misc. mineral prod.	1				1		1
Subtotal primary iron and steel products	0				0		0
5390 primary i&s nec	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	10	9			1	0	0
Subtotal oilseeds	9	9					
6522 soybeans	9	9					
Subtotal other agricultural products	1	0			1	0	0
6835 fish, prepared	0	0					
6857 fruit & nuts nec	0				0	0	
6871 coffee	0	0					0
6887 groceries	0				0		0
6888 water & ice	0				0		0
6889 food products nec	0				0		0
Total all manufactured equipment, machinery and products	1	0			1	0	1
7110 machinery (not elec)	0				0		0
7400 manufac. wood prod.	1				1		1
7600 rubber & plastic pr.	0	0					0
7900 manufac. prod. nec	0				0	0	0
Total waste and scrap nec	0				0	0	0
8900 waste and scrap nec	0				0	0	0
Total unknown or not elsewhere classified	0	0					
9900 unknown or nec	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 tons)

Year	Total	Year	Total
1981	2,380	1986	263
1982	1,893	1987	529
1983	1,954	1988	523
1984	2,509	1989	590
1985	1,950	1990	565

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Canadian	Domestic
		Imports	Lakewise Receipts
Total, all commodities	565	15	549
Total chemicals and related products	2	2	-----
Subtotal other chemicals and related products	2	2	-----
3275 inorg. elem., oxides, & halogen salts	2	2	-----
Total crude materials, inedible except fuels	549	-----	549
Subtotal soil, sand, gravel, rock and stone	549	-----	549
4322 limestone	549	-----	549
Total food and farm products	14	14	-----
Subtotal grain	14	14	-----
6241 wheat	11	11	-----
6445 oats	3	3	-----

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 tons)

Year	Total	Year	Total
1981	13,720	1986	11,427
1982	5,672	1987	14,372
1983	7,230	1988	17,476
1984	9,884	1989	14,568
1985	9,426	1990	13,967

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Canadian Imports	Domestic		
			Total	Lakewise Receipts	Lakewise Shipments
Total, all commodities	13,967	75	13,892	7,965	5,926
Total coal	13	-----	13	-----	13
1100 coal lignite	13	-----	13	-----	13
Total chemicals and related products	15	15	-----	-----	-----
Subtotal fertilizers	15	15	-----	-----	-----
3130 potassic fert.	15	15	-----	-----	-----
Total crude materials, inedible except fuels	13,939	60	13,879	7,965	5,914
Subtotal soil, sand, gravel, rock and stone	384	-----	384	250	134
4322 limestone	42	-----	42	42	-----
4323 gypsum	209	-----	209	209	-----
4331 sand & gravel	134	-----	134	-----	134
Subtotal iron ore and scrap	13,444	29	13,415	7,715	5,700
4410 iron ore	13,444	29	13,415	7,715	5,700
Subtotal slag	111	31	80	-----	80
4860 slag	111	31	80	-----	80

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 & Co., Grasselli Chemical Division Dock, 18 feet.

Comparative Statement of Traffic
(thousand tons)

Year	Total	Year	Total
1981	13,904	1986	12,188
1982	8,941	1987	13,914
1983	11,360	1988	14,551
1984	12,921	1989	14,688
1985	13,767	1990	14,368

Freight Traffic, 1990
(thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
Total, all commodities	3,144	500	22	2,394	227
Total coal	45	-----	-----	-----	45
1200 coal coke	45	-----	-----	-----	45
Total petroleum and petroleum products	52	-----	-----	52	-----
Subtotal petroleum products	52	-----	-----	52	-----
2211 gasoline	5	-----	-----	5	-----
2330 distillate fuel oil	10	-----	-----	10	-----
2340 residual fuel oil	38	-----	-----	38	-----
Total chemicals and related products	8	0	-----	8	-----
Subtotal other chemicals and related products	8	0	-----	8	-----
3276 metallic salts	8	-----	-----	8	-----
3286 plastics	0	0	-----	-----	-----
Total crude materials, inedible except fuels	2,360	0	15	2,178	167
Subtotal soil, sand, gravel, rock and stone	52	0	-----	-----	51
4331 sand & gravel	52	0	-----	-----	51
Subtotal iron ore and scrap	1,453	-----	15	1,438	-----
4410 iron ore	1,438	-----	-----	1,438	-----
4420 iron & steel scrap	15	-----	15	-----	-----
Subtotal non-ferrous ores and scrap	1	0	-----	-----	1
4670 manganese ore	1	-----	-----	-----	1
4680 non-ferrous scrap	0	0	-----	-----	-----

CLEVELAND HARBOR, OH
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Foreign		Canadian	
		Imports	Exports	Imports	Exports
Subtotal sulphur, clay and salt	740	-----	-----	740	-----
4782 clay & refrac. mat.	740	-----	-----	740	-----
Subtotal other non-metal. min.	115	-----	-----	-----	115
4900 non-metal. min. nec	115	-----	-----	-----	115
Total primary manufactured goods	651	496	0	156	-----
Subtotal lime, cement and glass	156	0	-----	156	-----
5220 cement & concrete	156	-----	-----	156	-----
5290 misc. mineral prod.	0	0	-----	-----	-----
Subtotal primary Iron and steel products	493	493	-----	-----	-----
5315 ferro alloys	4	4	-----	-----	-----
5320 i&s primary forms	99	99	-----	-----	-----
5330 i&s plates & sheets	329	329	-----	-----	-----
5360 i&s bars & shapes	45	45	-----	-----	-----
5370 i&s pipe & tube	14	14	-----	-----	-----
5390 primary i&s nec	2	2	-----	-----	-----
Subtotal primary non-ferrous metal products	3	3	0	-----	-----
5422 aluminum	0	0	-----	-----	-----
5429 smelted prod. nec	2	2	-----	-----	-----
5480 fab. metal products	1	1	0	-----	-----
Subtotal primary wood products	0	0	-----	-----	-----
5540 primary wood prod.	0	0	-----	-----	-----
Total food and farm products	20	0	4	-----	15
Subtotal oilseeds	15	-----	-----	-----	15
6522 soybeans	15	-----	-----	-----	15
Subtotal processed grain and animal feed	4	-----	4	-----	-----
6782 animal feed, prep.	4	-----	4	-----	-----
Subtotal other agricultural products	0	0	-----	-----	-----
6885 alcoholic beverages	0	0	-----	-----	-----
Total all manufactured equipment, machinery and products	6	4	3	-----	-----
7110 machinery (not elec)	6	3	3	-----	-----
7120 electrical machinery	0	0	0	-----	-----
7210 vehicles & parts	0	0	-----	-----	-----
7500 textile products	0	0	-----	-----	-----
7600 rubber & plastic pr.	0	0	-----	-----	-----
7900 manufac. prod. nec	0	0	0	-----	-----
Total unknown or not elsewhere classified	0	0	-----	-----	-----
9900 unknown or nec	0	0	-----	-----	-----

CLEVELAND HARBOR, OH
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Domestic			
		Lakewise		Internal	
		Receipts	Shipments	Receipts	Intraport
Total, all commodities	11,224	10,698	523	1	2
Total coal	7	7	-----	-----	-----
1100 coal lignite	7	7	-----	-----	-----
Total petroleum and petroleum products	307	307	-----	-----	-----
Subtotal petroleum products	307	307	-----	-----	-----
2330 distillate fuel oil	6	6	-----	-----	-----
2340 residual fuel oil	116	116	-----	-----	-----
2430 asphalt, tar & pitch	185	185	-----	-----	-----
Total crude materials, inedible except fuels	10,464	9,938	523	-----	2
Subtotal soil, sand, gravel, rock and stone	2,598	2,598	-----	-----	-----
4322 limestone	2,470	2,470	-----	-----	-----
4331 sand & gravel	127	127	-----	-----	-----
Subtotal iron ore and scrap	7,329	7,327	-----	-----	2
4410 iron ore	7,329	7,327	-----	-----	2
Subtotal sulphur, clay and salt	14	14	-----	-----	-----
4782 clay & refrac. mat.	14	14	-----	-----	-----
Subtotal other non-metal. min.	523	-----	523	-----	-----
4900 non-metal. min. nec	523	-----	523	-----	-----
Total primary manufactured goods	436	436	-----	-----	-----
Subtotal lime, cement and glass	436	436	-----	-----	-----
5220 cement & concrete	436	436	-----	-----	-----
Total food and farm products	10	10	-----	-----	-----
Subtotal grain	10	10	-----	-----	-----
6241 wheat	10	10	-----	-----	-----
Total all manufactured equipment, machinery and products	1	-----	-----	1	-----
7110 machinery (not elec)	1	-----	-----	1	-----

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 tons)

Year	Total	Year	Total
1981	1,674	1986	2,493
1982	1,627	1987	2,077
1983	1,710	1988	2,212
1984	1,995	1989	2,634
1985	2,318	1990	2,320

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Canadian		Domestic		
		Imports	Exports	Total	Lakewise	
				Receipts	Shipments	
Total, all commodities	2,320	12	87	2,221	1,822	399
Total crude materials, inedible except fuels	2,320	12	87	2,221	1,822	399
Subtotal soil, sand, gravel, rock and stone	1,821	-----	-----	1,821	1,811	11
4322 limestone	1,695	-----	-----	1,695	1,695	-----
4331 sand & gravel	126	-----	-----	126	116	11
Subtotal sulphur, clay and salt	24	12	-----	12	12	-----
4782 clay & refrac. mat.	24	12	-----	12	12	-----
Subtotal other non-metal. min.	475	-----	87	388	-----	388
4900 non-metal. min. nec	475	-----	87	388	-----	388

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 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 tons)

Year	Total	Year	Total
1981	9,948	1986	7,164
1982	6,832	1987	8,888
1983	8,395	1988	10,335
1984	9,243	1989	10,322
1985	7,039	1990	11,852

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic		
		Imports	Exports	Imports	Exports	Total	Lakewise	
						Receipts	Shipments	
Total, all commodities	11,852	169	77	901	3,958	6,747	5,447	1,300
Total coal	5,328	-----	75	-----	3,953	1,300	-----	1,300
1100 coal lignite	5,328	-----	75	-----	3,953	1,300	-----	1,300
Total petroleum and petroleum products	5	-----	-----	-----	5	-----	-----	-----
Subtotal petroleum products	5	-----	-----	-----	5	-----	-----	-----
2330 distillate fuel oil	5	-----	-----	-----	5	-----	-----	-----
Total chemicals and related products	95	-----	-----	95	-----	-----	-----	-----
Subtotal fertilizers	95	-----	-----	95	-----	-----	-----	-----
3130 potassic fert.	95	-----	-----	95	-----	-----	-----	-----
Total crude materials, inedible except fuels	6,383	164	1	770	1	5,447	5,447	-----
Subtotal soil, sand, gravel, rock and stone	486	-----	-----	6	-----	480	480	-----
4310 building stone	6	-----	-----	6	-----	-----	-----	-----
4322 limestone	480	-----	-----	-----	-----	480	480	-----
Subtotal iron ore and scrap	5,589	-----	1	621	-----	4,967	4,967	-----
4410 iron ore	5,588	-----	-----	621	-----	4,967	4,967	-----
4420 iron & steel scrap	1	-----	1	-----	-----	-----	-----	-----

ASHTABULA HARBOR, OH
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign		Canadian		Domestic	
		Imports	Exports	Imports	Exports	Total	Lakewise
						Receipts	Shipments
Subtotal non-ferrous ores and scrap	152	152	-----	-----	-----	-----	-----
4680 non-ferrous scrap	32	32	-----	-----	-----	-----	-----
4690 non-ferrous ores nec	120	120	-----	-----	-----	-----	-----
Subtotal sulphur, clay and salt	155	12	-----	143	-----	-----	-----
4782 clay & refrac. mat.	155	12	-----	143	-----	-----	-----
Subtotal other non-metal. min.	1	-----	-----	-----	1	-----	-----
4900 non-metal. min. nec	1	-----	-----	-----	1	-----	-----
Total primary manufactured goods	41	5	0	36	-----	-----	-----
Subtotal paper products	0	-----	0	-----	-----	-----	-----
5120 paper & paperboard	0	-----	0	-----	-----	-----	-----
Subtotal lime, cement and glass	36	-----	-----	36	-----	-----	-----
5220 cement & concrete	36	-----	-----	36	-----	-----	-----
Subtotal primary iron and steel products	5	5	-----	-----	-----	-----	-----
5315 ferro alloys	4	4	-----	-----	-----	-----	-----
5360 i&s bars & shapes	1	1	-----	-----	-----	-----	-----

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 tons)

Year	Total	Year	Total
1981	16,151	1986	7,675
1982	10,968	1987	7,047
1983	8,771	1988	10,220
1984	12,661	1989	8,890
1985	9,148	1990	9,567

Freight Traffic, 1990
 (thousand tons)

Commodity	Grand Total	Foreign	Canadian		Domestic		
		Exports	Imports	Exports	Total	Lakewise	
					Receipts	Shipments	
Total, all commodities	9,567	159	13	5,887	3,507	2,260	1,247
Total coal	7,224	105	-----	5,873	1,247	-----	1,247
1100 coal lignite	7,224	105	-----	5,873	1,247	-----	1,247
Total petroleum and petroleum products	69	55	-----	14	-----	-----	-----
Subtotal petroleum products	69	55	-----	14	-----	-----	-----
2340 residual fuel oil	55	55	-----	-----	-----	-----	-----
2350 lube oil & greases	0	-----	-----	0	-----	-----	-----
2429 naphtha & solvents	6	-----	-----	6	-----	-----	-----
2540 petroleum coke	8	-----	-----	8	-----	-----	-----
Total chemicals and related products	0	-----	-----	0	-----	-----	-----
Subtotal other chemicals and related products	0	-----	-----	0	-----	-----	-----
3286 plastics	0	-----	-----	0	-----	-----	-----
Total crude materials, inedible except fuels	2,273	-----	13	-----	2,260	2,260	-----
Subtotal soil, sand, gravel, rock and stone	483	-----	-----	-----	483	483	-----
4322 limestone	443	-----	-----	-----	443	443	-----
4323 gypsum	41	-----	-----	-----	41	41	-----
Subtotal iron ore and scrap	1,790	-----	13	-----	1,777	1,777	-----
4410 iron ore	1,790	-----	13	-----	1,777	1,777	-----
Total all manufactured equipment, machinery and products	0	-----	-----	0	-----	-----	-----
7230 ships & boats	0	-----	-----	0	-----	-----	-----

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 tons)

Year	Total	Year	Total
1981	755	1986	834
1982	624	1987	971
1983	607	1988	1,002
1984	829	1989	734
1985	966	1990	811

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Foreign		Canadian	Domestic
		Imports	Exports	Imports	Lakewise Receipts
Total, all commodities	810	12	77	234	488
Total crude materials, inedible except fuels	782	-----	76	218	488
Subtotal soil, sand, gravel, rock and stone	419	-----	-----	-----	419
4322 limestone	233	-----	-----	-----	233
4331 sand & gravel	186	-----	-----	-----	186
Subtotal iron ore and scrap	76	-----	76	-----	-----
4420 iron & steel scrap	76	-----	76	-----	-----
Subtotal sulphur, clay and salt	194	-----	-----	194	-----
4782 clay & refrac. mat.	194	-----	-----	194	-----
Subtotal other non-metal. min.	92	-----	-----	24	69
4900 non-metal. min. nec	92	-----	-----	24	69
Total primary manufactured goods	28	11	-----	17	-----
Subtotal primary iron and steel products	28	11	-----	17	-----
5312 pig iron	8	-----	-----	8	-----
5315 ferro alloys	15	11	-----	3	-----
5330 i&s plates & sheets	0	0	-----	-----	-----
5390 primary i&s nec	5	-----	-----	5	-----
Total all manufactured equipment, machinery and products	1	0	1	-----	-----
7110 machinery (not elec)	1	0	1	-----	-----

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 Lock 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 tons)

Year	Total	Year	Total
1981	5,780	1986	1,464
1982	3,552	1987	1,103
1983	1,963	1988	1,335
1984	1,490	1989	1,564
1985	1,400	1990	2,002

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Foreign Imports	Canadian		Domestic		
			Imports	Exports	Total	Lakewise	
						Receipts	Shipments
Total, all commodities	2,002	1	155	651	1,195	1,174	21
Total coal	53	-----	-----	53	-----	-----	-----
1200 coal coke	53	-----	-----	53	-----	-----	-----
Total petroleum and petroleum products	275	-----	3	243	29	8	21
Subtotal petroleum products	275	-----	3	243	29	8	21
2211 gasoline	11	-----	3	-----	8	8	-----
2330 distillate fuel oil	1	-----	-----	1	-----	-----	-----
2340 residual fuel oil	195	-----	-----	195	-----	-----	-----
2350 lube oil & greases	0	-----	-----	0	-----	-----	-----
2430 asphalt, tar & pitch	21	-----	-----	-----	21	-----	21
2540 petroleum coke	47	-----	-----	47	-----	-----	-----
Total chemicals and related products	10	0	7	2	-----	-----	-----
Subtotal fertilizers	1	-----	-----	1	-----	-----	-----
3190 fert. & mixes nec	1	-----	-----	1	-----	-----	-----
Subtotal other chemicals and related products	9	0	7	2	-----	-----	-----
3230 carboxylic acids	0	-----	-----	0	-----	-----	-----
3240 nitrogen func. comp.	0	-----	-----	0	-----	-----	-----
3250 organo-inorgan. comp	0	-----	-----	0	-----	-----	-----
3272 sulphuric acid	1	-----	1	-----	-----	-----	-----
3274 sodium hydroxide	0	-----	-----	0	-----	-----	-----

BUFFALO HARBOR, NY (INCLUDED IN PORT OF BUFFALO)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign	Canadian		Domestic	
		Imports	Imports	Exports	Total	Lakewise
					Receipts	Shipments
3275 inorg. elem.,oxides, & halogen salts	0			0		
3276 metallic salts	7		7	0		
3282 pigments & paints	1			1		
3283 coloring mat. nec	0			0		
3285 perfumes & cleansers	0		0	0		
3286 plastics	0			0		
3292 starches,gluten,glue	0	0				
3299 chem. products nec	0	0		0		
Total crude materials, inedible except fuels	532	0	0	284	247	247
Subtotal forest products, wood and chips	0			0		
4110 rubber & gums	0			0		
4189 lumber	0			0		
Subtotal pulp and waste paper	0			0		
4225 pulp & waste paper	0			0		
Subtotal soil, sand, gravel, rock and stone	200			45	155	155
4322 limestone	105			14	91	91
4331 sand & gravel	95			31	64	64
Subtotal iron ore and scrap	26		0	26		
4410 iron ore	26		0	26		
Subtotal non-ferrous ores and scrap	147			147		
4650 aluminum ore	6			6		
4670 manganese ore	1			1		
4690 non-ferrous ores nec	140			140		
Subtotal sulphur, clay and salt	1	0		1		
4782 clay & refrac. mat.	1	0		1		
Subtotal other non-metal. min.	157			65	92	92
4900 non-metal. min. nec	157			65	92	92
Total primary manufactured goods	49		17	13	20	20
Subtotal paper products	1			1		
5120 paper & paperboard	0			0		
5190 paper products nec	0			0		
Subtotal lime, cement and glass	44		15	10	20	20
5220 cement & concrete	44		15	9	20	20
5240 glass & glass prod.	0			0		
5290 misc. mineral prod.	0			0		
Subtotal primary iron and steel products	2			2		
5315 ferro alloys	0			0		
5320 i&s primary forms	0			0		
5330 i&s plates & sheets	2			2		
5360 i&s bars & shapes	0			0		
5370 i&s pipe & tube	0			0		
5390 primary i&s nec	0			0		

BUFFALO HARBOR, NY (INCLUDED IN PORT OF BUFFALO)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign	Canadian		Domestic	
		Imports	Imports	Exports	Total	Lakewise
						Receipts Shipments
Subtotal primary non-ferrous metal products	2	-----	1	0	-----	-----
5421 copper	0	-----	-----	0	-----	-----
5422 aluminum	0	-----	-----	0	-----	-----
5429 smelted prod. nec	0	-----	-----	0	-----	-----
5480 fab. metal products	2	-----	1	0	-----	-----
Subtotal primary wood products	0	-----	-----	0	-----	-----
5540 primary wood prod.	0	-----	-----	0	-----	-----
Total food and farm products	1,078	-----	128	51	899	899
Subtotal fish	0	-----	-----	0	-----	-----
6134 fish (not shellfish)	0	-----	-----	0	-----	-----
Subtotal grain	1,059	-----	128	31	899	899
6241 wheat	1,028	-----	128	-----	899	899
6344 corn	31	-----	-----	31	-----	-----
Subtotal vegetable products	0	-----	-----	0	-----	-----
6654 vegetables & prod.	0	-----	-----	0	-----	-----
Subtotal processed grain and animal feed	7	-----	-----	7	-----	-----
6747 grain mill products	0	-----	-----	0	-----	-----
6782 animal feed, prep.	7	-----	-----	7	-----	-----
Subtotal other agricultural products	12	-----	-----	12	-----	-----
6811 meat, fresh, frozen	0	-----	-----	0	-----	-----
6817 meat, prepared	0	-----	-----	0	-----	-----
6822 dairy products	0	-----	-----	0	-----	-----
6856 bananas & plantains	0	-----	-----	0	-----	-----
6858 fruit juices	0	-----	-----	0	-----	-----
6865 molasses	0	-----	-----	0	-----	-----
6871 coffee	0	-----	-----	0	-----	-----
6872 cocoa beans	0	-----	-----	0	-----	-----
6885 alcoholic beverages	11	-----	-----	11	-----	-----
6889 food products nec	0	-----	-----	0	-----	-----
6893 cotton	0	-----	-----	0	-----	-----
Total all manufactured equipment, machinery and products	5	1	0	4	-----	-----
7110 machinery (not elec)	3	1	0	3	-----	-----
7120 electrical machinery	0	-----	-----	0	-----	-----
7210 vehicles & parts	0	0	-----	0	-----	-----
7220 aircraft & parts	0	-----	-----	0	-----	-----
7230 ships & boats	0	-----	-----	0	-----	-----
7400 manufac. wood prod.	0	-----	-----	0	-----	-----
7500 textile products	0	-----	-----	0	-----	-----
7600 rubber & plastic pr.	0	0	0	0	-----	-----
7900 manufac. prod. nec	1	0	-----	1	-----	-----

BUFFALO HARBOR, NY (INCLUDED IN PORT OF BUFFALO)
 Freight Traffic, 1990 - continued
 (thousand tons)

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

NIAGARA RIVER, NY (INCLUDED IN PORT OF BUFFALO)

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

Comparative Statement of Traffic
 (thousand tons)

Year	Total	Year	Total
1981	456	1986	201
1982	430	1987	342
1983	323	1988	196
1984	364	1989	581
1985	405	1990	560

Freight Traffic, 1990
 (thousand tons)

Commodity	Grand Total	Canadian		Domestic		
		Through		Total	Lakewise	
		Upbound	Downbnd	Receipts	Shipments	
Total, all commodities	560	77	161	322	307	15
Total coal	153	10	-----	142	142	-----
1100 coal lignite	142	-----	-----	142	142	-----
1200 coal coke	10	10	-----	-----	-----	-----
Total petroleum and petroleum products	358	60	152	146	131	15
Subtotal petroleum products	358	60	152	146	131	15
2211 gasoline	61	-----	43	18	18	-----
2330 distillate fuel oil	63	-----	63	-----	-----	-----
2340 residual fuel oil	116	38	46	32	18	15
2430 asphalt, tar & pitch	96	-----	-----	96	96	-----
2540 petroleum coke	22	22	-----	-----	-----	-----
Total chemicals and related products	16	7	9	-----	-----	-----
Subtotal other chemicals and related products	16	7	9	-----	-----	-----
3212 benzene & toluene	5	-----	5	-----	-----	-----
3219 other hydrocarbons	4	-----	4	-----	-----	-----
3274 sodium hydroxide	7	7	-----	-----	-----	-----

NIAGARA RIVER, NY (INCLUDED IN PORT OF BUFFALO)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Canadian		Domestic		
		Through		Total	Lakewise	
		Upbound	Downbnd		Receipts	Shipments
Total crude materials, inedible except fuels	34	-----	-----	34	34	-----
Subtotal soil, sand, gravel, rock and stone	34	-----	-----	34	34	-----
4322 limestone	34	-----	-----	34	34	-----
Total all manufactured equipment, machinery and products	0	-----	0	-----	-----	-----
7110 machinery (not elec)	0	-----	0	-----	-----	-----
Ton-miles (x1000)	4,109		1,287	2,204	2,086	118
		618				

Tons All Traffic (x1000) 560
Ton-miles All Traffic (x1000) 4,109

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 tons)

Year	Total	Year	Total
1981	6,181	1986	1,628
1982	3,968	1987	1,423
1983	2,286	1988	1,335
1984	1,854	1989	2,145
1985	1,784	1990	2,563

Freight Traffic, 1990
 (thousand tons)

Commodity	Grand Total	Foreign	Canadian		Domestic		
		Imports	Imports	Exports	Total	Lakewise	
						Receipts	Shipments
Total, all commodities	2,563	1	316	728	1,518	1,482	36
Total coal	206	-----	-----	63	142	142	-----
1100 coal lignite	142	-----	-----	-----	142	142	-----
1200 coal coke	63	-----	-----	63	-----	-----	-----

PORT OF BUFFALO, NY
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign	Canadian		Domestic		
		Imports	Imports	Exports	Total	Lakewise	Shipments
					Receipts		
Total petroleum and petroleum products	633	-----	155	303	175	140	36
Subtotal petroleum products	633	-----	155	303	175	140	36
2211 gasoline	72	-----	46	-----	26	26	-----
2330 distillate fuel oil	63	-----	63	1	-----	-----	-----
2340 residual fuel oil	311	-----	46	233	32	18	15
2350 lube oil & greases	0	-----	-----	0	-----	-----	-----
2430 asphalt, tar & pitch	117	-----	-----	-----	117	96	21
2540 petroleum coke	69	-----	-----	69	-----	-----	-----
Total chemicals and related products	26	0	16	9	-----	-----	-----
Subtotal fertilizers	1	-----	-----	1	-----	-----	-----
3190 fert. & mixes nec	1	-----	-----	1	-----	-----	-----
Subtotal other chemicals and related products	25	0	16	9	-----	-----	-----
3212 benzene & toluene	5	-----	5	-----	-----	-----	-----
3219 other hydrocarbons	4	-----	4	-----	-----	-----	-----
3230 carboxylic acids	0	-----	-----	0	-----	-----	-----
3240 nitrogen func. comp.	0	-----	-----	0	-----	-----	-----
3250 organo-inorgan. comp	0	-----	-----	0	-----	-----	-----
3272 sulphuric acid	1	-----	1	-----	-----	-----	-----
3274 sodium hydroxide	7	-----	-----	7	-----	-----	-----
3275 inorg. elem.,oxides, & halogen salts	0	-----	-----	0	-----	-----	-----
3276 metallic salts	7	-----	7	0	-----	-----	-----
3282 pigments & paints	1	-----	-----	1	-----	-----	-----
3283 coloring mat. nec	0	-----	-----	0	-----	-----	-----
3285 perfumes & cleansers	0	-----	0	0	-----	-----	-----
3286 plastics	0	-----	-----	0	-----	-----	-----
3292 starches,gluten,glue	0	0	-----	0	-----	-----	-----
3299 chem. products nec	0	0	-----	0	-----	-----	-----
Total crude materials, inedible except fuels	565	0	0	284	281	281	-----
Subtotal forest products, wood and chips	0	-----	-----	0	-----	-----	-----
4110 rubber & gums	0	-----	-----	0	-----	-----	-----
4189 lumber	0	-----	-----	0	-----	-----	-----
Subtotal pulp and waste paper	0	-----	-----	0	-----	-----	-----
4225 pulp & waste paper	0	-----	-----	0	-----	-----	-----
Subtotal soil, sand, gravel, rock and stone	234	-----	-----	45	189	189	-----
4322 limestone	139	-----	-----	14	125	125	-----
4331 sand & gravel	95	-----	-----	31	64	64	-----
Subtotal Iron ore and scrap	26	-----	0	26	-----	-----	-----
4410 iron ore	26	-----	0	26	-----	-----	-----
Subtotal non-ferrous ores and scrap	147	-----	-----	147	-----	-----	-----
4650 aluminum ore	6	-----	-----	6	-----	-----	-----
4670 manganese ore	1	-----	-----	1	-----	-----	-----

PORT OF BUFFALO, NY
Freight Traffic, 1990 - continued
(thousand tons)

Commodity	Grand Total	Foreign	Canadian		Domestic	
		Imports	Imports	Exports	Total	Lakewise
						Receipts Shipments
4690 non-ferrous ores nec	140			140		
Subtotal sulphur, clay and salt	1	0		1		
4782 clay & refrac. mat.	1	0		1		
Subtotal other non-metal. min.	157			65	92	92
4900 non-metal. min. nec	157			65	92	92
Total primary manufactured goods	49		17	13	20	20
Subtotal paper products	1			1		
5120 paper & paperboard	0			0		
5190 paper products nec	0			0		
Subtotal lime, cement and glass	44		15	10	20	20
5220 cement & concrete	44		15	9	20	20
5240 glass & glass prod.	0			0		
5290 misc. mineral prod.	0			0		
Subtotal primary iron and steel products	2			2		
5315 ferro alloys	0			0		
5320 i&s primary forms	0			0		
5330 i&s plates & sheets	2			2		
5360 i&s bars & shapes	0			0		
5370 i&s pipe & tube	0			0		
5390 primary i&s nec	0			0		
Subtotal primary non-ferrous metal products	2		1	0		
5421 copper	0			0		
5422 aluminum	0			0		
5429 smelted prod. nec	0			0		
5480 fab. metal products	2		1	0		
Subtotal primary wood products	0			0		
5540 primary wood prod.	0			0		
Total food and farm products	1,078		128	51	899	899
Subtotal fish	0			0		
6134 fish (not shellfish)	0			0		
Subtotal grain	1,059		128	31	899	899
6241 wheat	1,028		128		899	899
6344 corn	31			31		
Subtotal vegetable products	0			0		
6654 vegetables & prod.	0			0		
Subtotal processed grain and animal feed	7			7		
6747 grain mill products	0			0		
6782 animal feed, prep.	7			7		
Subtotal other agricultural products	12			12		
6811 meat, fresh, frozen	0			0		
6817 meat, prepared	0			0		
6822 dairy products	0			0		
6856 bananas & plantains	0			0		

PORT OF BUFFALO, NY
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign	Canadian		Domestic	
		Imports	Imports	Exports	Total	Lakewise
					Receipts	Shipments
6858 fruit juices	0	-----	-----	0	-----	-----
6865 molasses	0	-----	-----	0	-----	-----
6871 coffee	0	-----	-----	0	-----	-----
6872 cocoa beans	0	-----	-----	0	-----	-----
6885 alcoholic beverages	11	-----	-----	11	-----	-----
6889 food products nec	0	-----	-----	0	-----	-----
6893 cotton	0	-----	-----	0	-----	-----
Total all manufactured equipment, machinery and products	5	1	0	4	-----	-----
7110 machinery (not elec)	3	1	0	3	-----	-----
7120 electrical machinery	0	-----	-----	0	-----	-----
7210 vehicles & parts	0	0	-----	0	-----	-----
7220 aircraft & parts	0	-----	-----	0	-----	-----
7230 ships & boats	0	-----	-----	0	-----	-----
7400 manufac. wood prod.	0	-----	-----	0	-----	-----
7500 textile products	0	-----	-----	0	-----	-----
7600 rubber & plastic pr.	0	0	0	0	-----	-----
7900 manufac. prod. nec	1	0	-----	1	-----	-----
Total unknown or not elsewhere classified	0	-----	0	0	-----	-----
9900 unknown or nec	0	-----	0	0	-----	-----

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 tons)

Year	Total	Year	Total
1981	1,040	1986	483
1982	542	1987	448
1983	355	1988	531
1984	474	1989	746
1985	525	1990	951

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Foreign	Canadian	Domestic		
		Exports	Imports	Total	Lakewise Receipts	Internal Shipments
Total, all commodities	950	3	865	82	15	68
Total petroleum and petroleum products	475	-----	461	15	15	-----
Subtotal petroleum products	475	-----	461	15	15	-----
2340 residual fuel oil	475	-----	461	15	15	-----
Total chemicals and related products	63	0	63	-----	-----	-----
Subtotal fertilizers	35	-----	35	-----	-----	-----
3110 nitrogenous fert.	9	-----	9	-----	-----	-----
3130 potassic fert.	26	-----	26	-----	-----	-----
Subtotal other chemicals and related products	28	0	28	-----	-----	-----
3211 acyclic hydrocarbons	1	-----	1	-----	-----	-----
3219 other hydrocarbons	4	0	4	-----	-----	-----
3220 alcohols	0	0	-----	-----	-----	-----
3240 nitrogen func. comp.	0	0	-----	-----	-----	-----
3260 organic comp. nec	1	-----	1	-----	-----	-----
3273 ammonia	0	-----	0	-----	-----	-----
3274 sodium hydroxide	7	-----	7	-----	-----	-----
3275 inorg. elem., oxides, & halogen salts	3	-----	3	-----	-----	-----
3276 metallic salts	11	-----	11	-----	-----	-----
3284 medicines	0	0	-----	-----	-----	-----
3285 perfumes & cleansers	0	0	-----	-----	-----	-----
3286 plastics	1	0	1	-----	-----	-----
3291 pesticides	0	0	-----	-----	-----	-----
3292 starches, gluten, glue	0	0	-----	-----	-----	-----
3299 chem. products nec	0	0	-----	-----	-----	-----
Total crude materials, inedible except fuels	0	0	-----	-----	-----	-----
Subtotal forest products, wood and chips	0	0	-----	-----	-----	-----
4190 forest products nec	0	0	-----	-----	-----	-----

OSWEGO HARBOR, NY
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Foreign	Canadian	Domestic		
		Exports	Imports	Total	Lakewise	Internal
				Receipts	Shipments	
Subtotal non-ferrous ores and scrap	0	0				
4690 non-ferrous ores nec	0	0				
Total primary manufactured goods	409	0	341	68		68
Subtotal paper products	0	0				
5190 paper products nec	0	0				
Subtotal lime, cement and glass	405	0	337	68		68
5220 cement & concrete	405		337	68		68
5290 misc. mineral prod.	0	0	0			
Subtotal primary non-ferrous metal products	4		4			
5422 aluminum	4		4			
Total food and farm products	3	3				
Subtotal fish	3	3				
6134 fish (not shellfish)	3	3				
Subtotal vegetable products	0	0				
6654 vegetables & prod.	0	0				
Subtotal processed grain and animal feed	0	0				
6747 grain mill products	0	0				
Subtotal other agricultural products	0	0				
6858 fruit juices	0	0				
6889 food products nec	0	0				
6891 tobacco & products	0	0				
Total all manufactured equipment, machinery and products	0	0	0			
7110 machinery (not elec)	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				

Other Harbors and Waterways

Harbor or Waterway	Commodity	Tons Thousand
Project		
BARCELONA HARBOR, NY	No Commerce Reported	
CAPE VINCENT, NY	No Commerce Reported	
DUNKIRK HARBOR, NY	No Commerce Reported	
GREAT SODUS BAY HARBOR, NY	No Commerce Reported	
KELLEYS ISLAND, OH	1100 coal lignite	0
	2211 gasoline	0
	2330 distillate fuel oil	0
	2430 asphalt, tar & pitch	0
	2640 liquid natural gas	0
	3275 inorg. elem., oxides, & halogen salts	0
	4189 lumber	1
	4331 sand & gravel	1
	4338 soil & fill dirt	0
	4420 iron & steel scrap	0
	5220 cement & concrete	0
	5290 misc. mineral prod.	1
	5390 primary i&s nec	0
	5480 fab. metal products	0
	6887 groceries	0
	6888 water & ice	0
	6889 food products nec	0
	7110 machinery (not elec)	0
	7400 manuf. wood prod.	1
	7900 manuf. prod. nec	0
8900 waste and scrap nec	0	
	Total Tons(x1000)	6
NIAGARA FALLS, NY	No Commerce Reported	
OGDENSBURG HARBOR, NY	2330 distillate fuel oil	30
	2350 lube oil & greases	4
	2540 petroleum coke	0
	3286 plastics	0
	3293 explosives	0
	4331 sand & gravel	17
	4650 aluminum ore	0
	4690 non-ferrous ores nec	7
	4782 clay & refrac. mat.	2
	4900 non-metal. min. nec	38
	5120 paper & paperboard	0
	5370 i&s pipe & tube	0
	5480 fab. metal products	0
	6344 corn	22
	6590 oilseeds nec	0
	6782 animal feed, prep.	9
6839 animals & prod. nec	0	
6861 sugar	0	

Other Harbors and Waterways

Harbor or Waterway	Commodity	Tons Thousand
Project		
OGDENSBURG HARBOR, NY - continued	6889 food products nec	0
	7110 machinery (not elec)	0
	7120 electrical machinery	0
	7900 manufac. prod. nec	0
	9900 unknown or nec	0
	Total Tons(x1000)	130
PORT CLINTON HARBOR, OH	4331 sand & gravel	19
	Total Tons(x1000)	19
ROCHESTER (CHARLOTTE) HARBOR, NY	5220 cement & concrete	211
	5480 fab. metal products	0
	Total Tons(x1000)	211
SACKETS HARBOR, NY	No Commerce Reported	
TONAWANDA HARBOR, NY (INCLUDED IN PORT OF BUFFALO)	1200 coal coke	10
	2211 gasoline	43
	2330 distillate fuel oil	63
	2340 residual fuel oil	84
	2540 petroleum coke	22
	3212 benzene & toluene	5
	3219 other hydrocarbons	4
	3274 sodium hydroxide	7
	7110 machinery (not elec)	0
Total Tons(x1000)	238	
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, Illinois, to Lockport, Illinois, 291.9 miles. Controlling Depth: 9 feet. Project Depths: 9 feet at low water stages.

Comparative Statement of Traffic
(thousand tons)

Year	Total	Year	Total
1981	39,764	1986	39,991
1982	39,472	1987	38,431
1983	41,029	1988	37,816
1984	37,086	1989	36,617
1985	36,535	1990	39,659

Freight Traffic, 1990
(thousand tons)

Commodity	Total	Coastwise
		Through Downbd
Total, all commodities	4	4
Total all manufactured equipment, machinery and products	4	4
7110 machinery (not elec)	4	4
Ton-miles (x1000)	1,164	1,164

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbd	Upbound	Downbd	Upbound	Downbd	Upbound	Downbd
Total, all commodities	39,655	5,951	687	3,129	18,323	7,285	4,047	38	196
Total coal	6,191	1,882	2	1,682	427	1,664	431	-----	104
1100 coal lignite	4,991	1,878	2	1,533	6	1,458	69	-----	45
1200 coal coke	1,201	3	-----	149	421	206	363	-----	58
Total petroleum and petroleum products	4,049	1,237	84	117	605	966	961	-----	81
Subtotal crude petroleum	12	-----	-----	-----	-----	-----	12	-----	-----
2100 crude petroleum	12	-----	-----	-----	-----	-----	12	-----	-----
Subtotal petroleum products	4,037	1,237	84	117	605	966	948	-----	81
2211 gasoline	798	448	33	4	127	79	38	-----	69
2221 kerosene	8	-----	-----	-----	-----	8	-----	-----	-----

ILLINOIS RIVER, IL (INCLUDED IN THE ILLINOIS WATERWAY CONSOLIDATED)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
2330 distillate fuel oil	683	222	7	149	32	262		12	
2340 residual fuel oil	946	255	25	69	133	135	331		
2350 lube oil & greases	278	4				252	22		
2429 naphtha & solvents	232	27	9	1	163	31			
2430 asphalt, tar & pitch	789	257	9	44	35	193	252		
2540 petroleum coke	287	12	1	160	100	12			
2990 petro. products nec	15	11			4				
Total chemicals and related products	4,633	2,233	90	189	697	1,127	271	27	
Subtotal fertilizers	1,292	1,043	19	37	4	175	3	11	
3110 nitrogenous fert.	571	375	19	37	4	131	2	2	
3120 phosphatic fert.	66	48				17			
3130 potassic fert.	141	125				7		9	
3190 fert. & mixes nec	515	494				19	2		
Subtotal other chemicals and related products	3,340	1,190	71	152	692	952	267	16	
3211 acyclic hydrocarbons	36	18				1	16		
3212 benzene & toluene	99	4	1			18	75		
3219 other hydrocarbons	831	533	61	21		145	70	1	
3220 alcohols	1,150	59	5	152	653	258	22	3	
3230 carboxylic acids	14					14			
3260 organic comp. nec	70	14				47	9		
3273 ammonia	235	228						8	
3274 sodium hydroxide	381					379	1		
3275 inorg. elem., oxides, & halogen salts	50	3				43	4		
3276 metallic salts	246	197	3			0	41	5	
3279 inorganic chem. nec	6					6			
3284 medicines	3						3		
3286 plastics	7					7			
3297 chemical additives	15	7		4			4		
3298 wood & resin chem.	1						1		

ILLINOIS RIVER, IL (INCLUDED IN THE ILLINOIS WATERWAY CONSOLIDATED)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
3299 chem. products nec	197	128	-----	-----	14	34	21	-----	-----
Total crude materials, inedible except fuels	4,416	370	485	1,140	33	1,638	744	6	-----
Subtotal forest products, wood and chips	24	21	-----	-----	-----	3	-----	-----	-----
4161 wood chips	7	7	-----	-----	-----	-----	-----	-----	-----
4189 lumber	3	-----	-----	-----	-----	3	-----	-----	-----
4190 forest products nec	14	14	-----	-----	-----	-----	-----	-----	-----
Subtotal pulp and waste paper	6	4	-----	-----	-----	2	-----	-----	-----
4225 pulp & waste paper	6	4	-----	-----	-----	2	-----	-----	-----
Subtotal soil, sand, gravel, rock and stone	1,682	72	389	1,134	12	67	4	5	-----
4310 building stone	1	-----	-----	-----	-----	1	-----	-----	-----
4322 limestone	49	34	-----	-----	-----	11	4	-----	-----
4323 gypsum	2	2	-----	-----	-----	-----	-----	-----	-----
4331 sand & gravel	1,631	36	389	1,134	12	55	-----	5	-----
Subtotal iron ore and scrap	1,173	53	78	3	11	365	661	1	-----
4410 iron ore	346	-----	-----	-----	-----	343	3	-----	-----
4420 iron & steel scrap	827	53	78	3	11	23	658	1	-----
Subtotal marine shells	9	-----	-----	-----	-----	9	-----	-----	-----
4515 marine shells	9	-----	-----	-----	-----	9	-----	-----	-----
Subtotal non-ferrous ores and scrap	128	1	-----	-----	-----	126	-----	-----	-----
4650 aluminum ore	78	-----	-----	-----	-----	78	-----	-----	-----
4670 manganese ore	36	1	-----	-----	-----	35	-----	-----	-----
4690 non-ferrous ores nec	13	-----	-----	-----	-----	13	-----	-----	-----
Subtotal sulphur, clay and salt	23	12	-----	-----	-----	11	-----	-----	-----
4782 clay & refrac. mat.	23	12	-----	-----	-----	11	-----	-----	-----
Subtotal slag	195	2	16	-----	9	113	56	-----	-----
4860 slag	195	2	16	-----	9	113	56	-----	-----
Subtotal other non-metal. min.	1,176	205	2	3	1	942	24	-----	-----
4900 non-metal. min. nec	1,176	205	2	3	1	942	24	-----	-----

ILLINOIS RIVER, IL (INCLUDED IN THE ILLINOIS WATERWAY CONSOLIDATED)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total primary manufactured goods	2,677	151	1	1	114	1,781	628	-----	-----
Subtotal lime, cement and glass	1,110	101	-----	-----	-----	1,005	4	-----	-----
5210 lime	57	38	-----	-----	-----	17	2	-----	-----
5220 cement & concrete	1,051	63	-----	-----	-----	986	2	-----	-----
5290 misc. mineral prod.	2	-----	-----	-----	-----	1	1	-----	-----
Subtotal primary iron and steel products	1,236	43	1	1	95	623	473	-----	-----
5312 pig iron	100	1	-----	-----	-----	99	-----	-----	-----
5315 ferro alloys	166	3	-----	-----	-----	159	4	-----	-----
5320 i&s primary forms	165	20	-----	-----	9	36	100	-----	-----
5330 i&s plates & sheets	94	-----	1	-----	-----	8	85	-----	-----
5360 i&s bars & shapes	232	15	-----	-----	53	144	19	-----	-----
5370 i&s pipe & tube	16	1	-----	1	-----	11	4	-----	-----
5390 primary i&s nec	463	2	-----	-----	33	166	261	-----	-----
Subtotal primary non-ferrous metal products	329	6	0	-----	19	152	151	-----	-----
5422 aluminum	3	-----	-----	-----	-----	3	-----	-----	-----
5429 smelted prod. nec	14	0	-----	-----	-----	9	5	-----	-----
5480 fab. metal products	312	6	0	-----	19	141	146	-----	-----
Subtotal primary wood products	2	-----	-----	-----	-----	2	-----	-----	-----
5540 primary wood prod.	2	-----	-----	-----	-----	2	-----	-----	-----
Total food and farm products	17,644	76	-----	-----	16,447	99	1,007	4	11
Subtotal grain	12,451	21	-----	-----	11,741	5	673	3	8
6241 wheat	687	-----	-----	-----	613	2	66	-----	6
6344 corn	11,721	2	-----	-----	11,115	-----	600	3	2
6443 barley & rye	15	15	-----	-----	-----	-----	-----	-----	-----
6445 oats	15	5	-----	-----	-----	3	7	-----	-----
6447 sorghum grains	13	-----	-----	-----	13	-----	-----	-----	-----
Subtotal oilseeds	3,291	-----	-----	-----	2,980	-----	306	1	3
6522 soybeans	3,205	-----	-----	-----	2,895	-----	306	1	3
6590 oilseeds nec	86	-----	-----	-----	86	-----	-----	-----	-----

ILLINOIS RIVER, IL (INCLUDED IN THE ILLINOIS WATERWAY CONSOLIDATED)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Internal									
		Inbound		Outbound		Through		Intra			
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd		
Subtotal vegetable products	5	5									
6653 vegetable oils	5	5									
Subtotal processed grain and animal feed	1,755	19		1,722		14					
6746 wheat flour	4					4					
6747 grain mill products	135	4		131							
6782 animal feed, prep.	1,615	15		1,591		10					
Subtotal other agricultural products	141	30		4	94	14					
6838 tallow, animal oils	13					13					
6861 sugar	61					61					
6865 molasses	64	30		1		32					
6889 food products nec	3			2		1					
Total all manufactured equipment, machinery and products	45	4	26	1	10	5					
7110 machinery (not elec)	43	2	26	0	10	5					
7210 vehicles & parts	1			1							
7500 textile products	2	2									
Ton-miles Internal (x1000)	8,261,409	1,162,788	82,081	317,140	3,382,929	2,120,009	1,177,575	3,514	15,372		
Tons All Traffic (x1000)			39,659								
Ton-miles All Traffic (x1000)			8,262,573								

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 tons)

Year	Total	Year	Total
1981	21,706	1986	19,524
1982	19,064	1987	16,599
1983	18,749	1988	17,747
1984	15,293	1989	16,908
1985	15,904	1990	18,643

Freight Traffic, 1990
(thousand tons)

Commodity	Total	Coastwise
		Shipments
Total, all commodities	4	4
Total all manufactured equipment, machinery and products	4	4
7110 machinery (not elec)	4	4
Ton-miles (x1000) Coastwise	12	12

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	18,639	5,824	820	1,559	2,155	4,929	2,621	560	171
Total coal	3,935	1,258	17	137	297	2,089	136	2	-----
1100 coal lignite	3,061	1,216	-----	-----	-----	1,775	70	-----	-----
1200 coal coke	874	41	17	137	297	314	66	2	-----
Total petroleum and petroleum products	3,403	1,228	534	122	669	108	416	178	148
Subtotal crude petroleum	12	-----	-----	-----	-----	-----	12	-----	-----
2100 crude petroleum	12	-----	-----	-----	-----	-----	12	-----	-----
Subtotal petroleum products	3,390	1,228	534	122	669	108	404	178	148
2211 gasoline	298	98	66	4	28	3	47	-----	53

CHICAGO SANITARY AND SHIP CANAL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
2221 kerosene	8	7				1			
2330 distillate fuel oil	654	59	115	49	202		71	109	50
2340 residual fuel oil	845	236	104	56	256	12	126	32	23
2350 lube oil & greases	282	252	8				22		
2429 naphtha & solvents	246	165	11	11	31	3	9	12	4
2430 asphalt, tar & pitch	907	366	207	3	142	22	124	24	18
2540 petroleum coke	146	43	23		9	66	4		
2990 petro. products nec	4	2				1			
Total chemicals and related products	2,003	906	207	22	176	495	185	9	3
Subtotal fertilizers	248	17		14		195	22		
3110 nitrogenous fert.	203	13		14		156	20		
3120 phosphatic fert.	17	2				15			
3130 potassic fert.	7	2				6			
3190 fert. & mixes nec	21					19	2		
Subtotal other chemicals and related products	1,755	889	207	8	176	300	163	9	3
3211 acyclic hydrocarbons	18	1					16		
3212 benzene & toluene	138	46	3	8	52		24	3	1
3219 other hydrocarbons	320	118	12		45	57	86	1	
3220 alcohols	469	292	1		3	145	25	3	0
3230 carboxylic acids	14	13				1			
3260 organic comp. nec	56	42				5	9		1
3274 sodium hydroxide	382	311			1	68		1	
3275 inorg. elem., oxides, & halogen salts	48	43			4				
3276 metallic salts	235	0	191		44				
3279 inorganic chem. nec	6					6			
3284 medicines	3						3		
3286 plastics	7					7			
3297 chemical additives	4				4				
3298 wood & resin chem.	1				1				

CHICAGO SANITARY AND SHIP CANAL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
3299 chem. products nec	55	22			21	11			
Total crude materials, inedible except fuels	5,661	1,501	5	1,276	544	1,278	685	373	
Subtotal forest products, wood and chips	3					3			
4189 lumber	3					3			
Subtotal pulp and waste paper	2	2							
4225 pulp & waste paper	2	2							
Subtotal soil, sand, gravel, rock and stone	3,242	1,167		1,276	389	34	4	373	
4310 building stone	1					1			
4322 limestone	15					11	4		
4331 sand & gravel	3,227	1,167		1,276	389	22		373	
Subtotal iron ore and scrap	1,109	1	1		140	368	599		
4410 iron ore	346					343	3		
4420 iron & steel scrap	763	1	1		140	25	596		
Subtotal marine shells	9					9			
4515 marine shells	9					9			
Subtotal non-ferrous ores and scrap	126					126			
4650 aluminum ore	78					78			
4670 manganese ore	35					35			
4690 non-ferrous ores nec	13					13			
Subtotal sulphur, clay and salt	11	4				7			
4782 clay & refrac. mat.	11	4				7			
Subtotal slag	188		3		1	113	71		
4860 slag	188		3		1	113	71		
Subtotal other non-metal. min.	970	326			14	619	12		
4900 non-metal. min. nec	970	326			14	619	12		

CHICAGO SANITARY AND SHIP CANAL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total primary manufactured goods	2,413	894	-----	1	48	888	582	-----	-----
Subtotal lime, cement and glass	1,009	710	-----	-----	-----	295	4	-----	-----
5210 lime	19	-----	-----	-----	-----	17	2	-----	-----
5220 cement & concrete	988	709	-----	-----	-----	278	2	-----	-----
5290 misc. mineral prod.	2	1	-----	-----	-----	-----	1	-----	-----
Subtotal primary iron and steel products	1,099	78	-----	1	46	545	428	-----	-----
5312 pig iron	99	5	-----	-----	-----	95	-----	-----	-----
5315 ferro alloys	163	1	-----	-----	-----	158	4	-----	-----
5320 i&s primary forms	136	-----	-----	-----	45	36	55	-----	-----
5330 i&s plates & sheets	94	6	-----	-----	-----	2	86	-----	-----
5360 i&s bars & shapes	164	34	-----	1	2	110	17	-----	-----
5370 i&s pipe & tube	15	4	-----	0	-----	7	4	-----	-----
5390 primary i&s nec	428	28	-----	-----	-----	139	261	-----	-----
Subtotal primary non-ferrous metal products	303	104	-----	-----	1	48	150	-----	-----
5422 aluminum	3	-----	-----	-----	-----	3	-----	-----	-----
5429 smelted prod. nec	13	2	-----	-----	-----	7	5	-----	-----
5480 fab. metal products	287	102	-----	-----	1	38	145	-----	-----
Subtotal primary wood products	2	2	-----	-----	-----	-----	-----	-----	-----
5540 primary wood prod.	2	2	-----	-----	-----	-----	-----	-----	-----
Total food and farm products	1,106	35	-----	-----	420	64	587	-----	-----
Subtotal grain	678	-----	-----	-----	314	5	359	-----	-----
6241 wheat	68	-----	-----	-----	24	2	42	-----	-----
6344 corn	600	-----	-----	-----	289	-----	311	-----	-----
6445 oats	10	-----	-----	-----	-----	3	7	-----	-----
Subtotal oilseeds	306	-----	-----	-----	106	-----	200	-----	-----
6522 soybeans	306	-----	-----	-----	106	-----	200	-----	-----
Subtotal processed grain and animal feed	14	-----	-----	-----	-----	-----	14	-----	-----
6746 wheat flour	4	-----	-----	-----	-----	-----	4	-----	-----
6782 animal feed, prep.	10	-----	-----	-----	-----	-----	10	-----	-----

CHICAGO SANITARY AND SHIP CANAL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Internal								
		Inbound		Outbound		Through		Intra		
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	
Subtotal other agricultural products	107	35	-----	-----	-----		59	14	-----	-----
6838 tallow, animal oils	13	-----	-----	-----	-----	-----	-----	13	-----	-----
6861 sugar	61	35	-----	-----	-----	-----	27	-----	-----	-----
6865 molasses	32	-----	-----	-----	-----	-----	32	-----	-----	-----
6889 food products nec	1	-----	-----	-----	-----	-----	-----	1	-----	-----
Total all manufactured equipment, machinery and products	41	2	-----	-----	-----	1	7	30	-----	-----
7110 machinery (not elec)	41	2	-----	-----	-----	1	7	30	-----	-----
Total waste and scrap nec	78	-----	58	-----	-----	-----	-----	-----	-----	20
8900 waste and scrap nec	78	-----	58	-----	-----	-----	-----	-----	-----	20
Ton-miles Internal (x1000)	233,211	63,498	9,639	36,673	19,193	63,867	27,619	9,985	2,738	
Tons All Traffic (x1000)			18,643							
Ton-miles All Traffic (x1000)			233,224							

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 tons)

Year	Total	Year	Total
1981	6,842	1986	7,503
1982	5,442	1987	6,127
1983	6,445	1988	7,075
1984	5,578	1989	6,544
1985	5,829	1990	7,621

Freight Traffic, 1990
(thousand tons)

Commodity	Grand Total	Internal						
		Inbound		Outbound		Through		Intra
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound
Total, all commodities	7,621	298	126	37	686	4,065	2,404	5
Total coal	1,969	4	-----	-----	-----	1,813	151	-----
1100 coal lignite	1,436	-----	-----	-----	-----	1,366	70	-----
1200 coal coke	533	4	-----	-----	-----	447	81	-----
Total petroleum and petroleum products	1,068	74	34	37	674	84	161	5
Subtotal crude petroleum	12	-----	-----	-----	12	-----	-----	-----
2100 crude petroleum	12	-----	-----	-----	12	-----	-----	-----
Subtotal petroleum products	1,056	74	34	37	661	84	161	5
2211 gasoline	170	6	34	7	108	1	14	-----
2221 kerosene	1	1	-----	-----	-----	-----	-----	-----
2330 distillate fuel oil	124	5	-----	2	41	-----	71	5
2340 residual fuel oil	215	31	-----	9	154	4	17	-----
2350 lube oil & greases	22	-----	-----	-----	-----	-----	22	-----
2429 naphtha & solvents	57	11	-----	19	3	3	21	-----
2430 asphalt, tar & pitch	382	18	-----	-----	341	10	13	-----
2540 petroleum coke	84	-----	-----	-----	13	66	4	-----
2990 petro. products nec	1	1	-----	-----	-----	-----	-----	-----
Total chemicals and related products	879	148	92	-----	7	352	280	-----
Subtotal fertilizers	212	-----	-----	-----	-----	190	22	-----
3110 nitrogenous fert.	171	-----	-----	-----	-----	151	20	-----
3120 phosphatic fert.	15	-----	-----	-----	-----	15	-----	-----
3130 potassic fert.	6	-----	-----	-----	-----	6	-----	-----
3190 fert. & mixes nec	21	-----	-----	-----	-----	19	2	-----
Subtotal other chemicals and related products	666	148	92	-----	7	162	258	-----
3211 acyclic hydrocarbons	16	-----	-----	-----	-----	-----	16	-----
3212 benzene & toluene	63	8	-----	-----	1	-----	53	-----
3219 other hydrocarbons	186	6	-----	-----	3	52	126	-----
3220 alcohols	289	89	89	-----	-----	57	54	-----

CALUMET-SAG CHANNEL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Internal						
		Inbound		Outbound		Through		Intra
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound
3230 carboxylic acids	1	-----	-----	-----	-----	1	-----	-----
3260 organic comp. nec	16	-----	2	-----	-----	5	9	-----
3274 sodium hydroxide	68	41	-----	-----	-----	27	-----	-----
3279 inorganic chem. nec	6	-----	-----	-----	-----	6	-----	-----
3284 medicines	3	-----	-----	-----	3	-----	-----	-----
3286 plastics	7	-----	-----	-----	-----	7	-----	-----
3299 chem. products nec	11	4	-----	-----	-----	8	-----	-----
Total crude materials, inedible except fuels	1,690	23	-----	-----	4	1,041	622	-----
Subtotal forest products, wood and chips	3	-----	-----	-----	-----	3	-----	-----
4189 lumber	3	-----	-----	-----	-----	3	-----	-----
Subtotal soil, sand, gravel, rock and stone	24	12	-----	-----	-----	8	4	-----
4310 building stone	1	-----	-----	-----	-----	1	-----	-----
4322 limestone	15	11	-----	-----	-----	-----	4	-----
4331 sand & gravel	8	1	-----	-----	-----	7	-----	-----
Subtotal iron ore and scrap	908	3	-----	-----	4	364	536	-----
4410 iron ore	346	2	-----	-----	-----	341	3	-----
4420 iron & steel scrap	562	2	-----	-----	4	23	534	-----
Subtotal marine shells	9	-----	-----	-----	-----	9	-----	-----
4515 marine shells	9	-----	-----	-----	-----	9	-----	-----
Subtotal non-ferrous ores and scrap	126	3	-----	-----	-----	123	-----	-----
4650 aluminum ore	78	-----	-----	-----	-----	78	-----	-----
4670 manganese ore	35	3	-----	-----	-----	32	-----	-----
4690 non-ferrous ores nec	13	-----	-----	-----	-----	13	-----	-----
Subtotal sulphur, clay and salt	5	-----	-----	-----	-----	5	-----	-----
4782 clay & refrac. mat.	5	-----	-----	-----	-----	5	-----	-----
Subtotal slag	187	-----	-----	-----	-----	113	74	-----
4860 slag	187	-----	-----	-----	-----	113	74	-----
Subtotal other non-metal. min.	428	5	-----	-----	-----	416	8	-----
4900 non-metal. min. nec	428	5	-----	-----	-----	416	8	-----
Total primary manufactured goods	1,334	32	-----	-----	-----	720	582	-----
Subtotal lime, cement and glass	167	2	-----	-----	-----	161	4	-----
5210 lime	19	2	-----	-----	-----	16	2	-----
5220 cement & concrete	147	-----	-----	-----	-----	146	2	-----
5290 misc. mineral prod.	1	-----	-----	-----	-----	-----	1	-----
Subtotal primary iron and steel products	970	30	-----	-----	-----	513	428	-----
5312 pig iron	95	30	-----	-----	-----	65	-----	-----
5315 ferro alloys	161	-----	-----	-----	-----	158	4	-----
5320 i&s primary forms	91	-----	-----	-----	-----	36	55	-----

CALUMET-SAG CHANNEL, IL (INCLUDED IN PORT OF CHICAGO, ALSO INCLUDED IN STATISTICS FOR ILLINOIS WATERWAY)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Grand Total	Internal						
		Inbound		Outbound		Through		Intra Upbound
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	
5330 i&s plates & sheets	88	-----	-----	-----	-----	2	86	-----
5360 i&s bars & shapes	125	-----	-----	-----	-----	108	17	-----
5370 i&s pipe & tube	10	-----	-----	-----	-----	6	4	-----
5390 primary i&s nec	400	-----	-----	-----	-----	139	261	-----
Subtotal primary non-ferrous metal products	196	-----	-----	-----	-----	47	150	-----
5422 aluminum	3	-----	-----	-----	-----	3	-----	-----
5429 smelted prod. nec	10	-----	-----	-----	-----	5	5	-----
5480 fab. metal products	183	-----	-----	-----	-----	38	145	-----
Total food and farm products	644	17	-----	-----	1	47	579	-----
Subtotal grain	364	-----	-----	-----	-----	5	359	-----
6241 wheat	43	-----	-----	-----	-----	2	42	-----
6344 corn	311	-----	-----	-----	-----	-----	311	-----
6445 oats	10	-----	-----	-----	-----	3	7	-----
Subtotal oilseeds	200	-----	-----	-----	-----	-----	200	-----
6522 soybeans	200	-----	-----	-----	-----	-----	200	-----
Subtotal processed grain and animal feed	14	-----	-----	-----	-----	-----	14	-----
6746 wheat flour	4	-----	-----	-----	-----	-----	4	-----
6782 animal feed, prep.	10	-----	-----	-----	-----	-----	10	-----
Subtotal other agricultural products	66	17	-----	-----	1	42	5	-----
6838 tallow, animal oils	6	-----	-----	-----	1	-----	4	-----
6861 sugar	27	-----	-----	-----	-----	27	-----	-----
6865 molasses	32	17	-----	-----	-----	15	-----	-----
6889 food products nec	1	-----	-----	-----	-----	-----	1	-----
Total all manufactured equipment, machinery and products	37	-----	-----	-----	-----	7	30	-----
7110 machinery (not elec)	37	-----	-----	-----	-----	7	30	-----
Ton-miles (x1000)	170,760	4,756	1,248	376	9,103	97,564	57,693	20
Tons All Traffic (x1000)		7,621						
Ton-miles All Traffic (x1000)		170,762						

ILLINOIS WATERWAY, IL (CONSOLIDATED REPORT FOR ENTIRE WATERWAY)

Section Included: Illinois River, Grafton, IL to confluence of Desplaines and Kankakee Rivers then Desplaines 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 tons)

Year	Total	Year	Total
1981	43,111	1986	43,427
1982	42,719	1987	41,412
1983	43,513	1988	40,973
1984	39,631	1989	39,672
1985	38,531	1990	43,318

Freight Traffic, 1990
(thousand tons)

Commodity	Total	Coastwise
		Shipments
Total, all commodities	4	4
Total all manufactured equipment, machinery and products	4	4
7110 machinery (not elec)	4	4
Ton-miles (x1000) Coastwise	1,176	1,176

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Total, all commodities	43,314	9,282	1,001	1,575	20,284	4,055	2,096	4,021	1,000
Total coal	6,347	2,018	18	287	723	1,528	135	1,534	104
1100 coal lignite	4,991	1,970	2	-----	6	1,367	69	1,533	45
1200 coal coke	1,356	49	17	287	717	161	66	2	58
Total petroleum and petroleum products	5,401	2,147	433	152	1,459	70	117	574	449
Subtotal crude petroleum	12	-----	-----	-----	12	-----	-----	-----	-----
2100 crude petroleum	12	-----	-----	-----	12	-----	-----	-----	-----

ILLINOIS WATERWAY, IL (CONSOLIDATED REPORT FOR ENTIRE WATERWAY)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Subtotal petroleum products	5,389	2,147	433	152	1,447	70	117	574	449
2211 gasoline	984	526	49	11	158	1	7	26	206
2221 kerosene	8	8							
2330 distillate fuel oil	1,044	259	108	49	351		60	142	76
2340 residual fuel oil	1,241	395	104	67	458		11	159	47
2350 lube oil & greases	286	256	8				22		
2429 naphtha & solvents	294	192	16	19	33	3		23	8
2430 asphalt, tar & pitch	1,198	450	129	7	280		13	215	105
2540 petroleum coke	319	47	19		168	66	4	9	6
2990 petro. products nec	15	15							
Total chemicals and related products	5,052	3,125	371	51	863	320	105	197	19
Subtotal fertilizers	1,306	1,060	19	51	4	158	3	11	
3110 nitrogenous fert.	585	388	19	51	4	118	2	2	
3120 phosphatic fert.	66	51				15			
3130 potassic fert.	141	126				6		9	
3190 fert. & mixes nec	515	494				19	2		
Subtotal other chemicals and related products	3,746	2,066	353		858	162	102	186	19
3211 acyclic hydrocarbons	36	20					16		
3212 benzene & toluene	142	51	3		52		22	11	3
3219 other hydrocarbons	875	657	61		57	52	34	3	12
3220 alcohols	1,273	287	96		655	57	20	159	0
3230 carboxylic acids	14	13				1			
3260 organic comp. nec	73	56	2			5	9		1
3273 ammonia	235	228						8	
3274 sodium hydroxide	382	352			1	27		1	
3275 inorg. elem., oxides, & halogen salts	50	46			4				
3276 metallic salts	436	197	191		41			5	3

ILLINOIS WATERWAY, IL (CONSOLIDATED REPORT FOR ENTIRE WATERWAY)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
3279 inorganic chem. nec	6					6			
3284 medicines	3				3				
3286 plastics	7					7			
3297 chemical additives	15	7			8				
3298 wood & resin chem.	1				1				
3299 chem. products nec	197	154			35	8			
Total crude materials, inedible except fuels	6,069	779	93	1,084	207	1,229	570	1,711	397
Subtotal forest products, wood and chips	24	21				3			
4161 wood chips	7	7							
4189 lumber	3					3			
4190 forest products nec	14	14							
Subtotal pulp and waste paper	6	6							
4225 pulp & waste paper	6	6							
Subtotal soil, sand, gravel, rock and stone	3,331	131		1,082	12	8	4	1,706	389
4310 building stone	1					1			
4322 limestone	49	45					4		
4323 gypsum	2	2							
4331 sand & gravel	3,279	85		1,082	12	7		1,706	389
Subtotal iron ore and scrap	1,175	57	75	2	169	362	503	3	5
4410 iron ore	346	2				341	3		
4420 iron & steel scrap	829	55	75	2	169	21	500	3	5
Subtotal marine shells	9					9			
4515 marine shells	9					9			
Subtotal non-ferrous ores and scrap	128	4				123			
4650 aluminum ore	78					78			
4670 manganese ore	36	4				32			
4690 non-ferrous ores nec	13					13			
Subtotal sulphur, clay and salt	23	18				5			
4782 clay & refrac. mat.	23	18				5			

ILLINOIS WATERWAY, IL (CONSOLIDATED REPORT FOR ENTIRE WATERWAY)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Subtotal slag	198	2	18	9	113	56			1
4860 slag	198	2	18	9	113	56			1
Subtotal other non-metal. min.	1,176	540		18	606	8		3	2
4900 non-metal. min. nec	1,176	540		18	606	8		3	2
Total primary manufactured goods	2,678	1,079	1	1	162	854	580	1	
Subtotal lime, cement and glass	1,110	814				292	4		
5210 lime	57	39				16	2		
5220 cement & concrete	1,051	774				276	2		
5290 misc. mineral prod.	2	1					1		
Subtotal primary iron and steel products	1,237	152	1	1	141	515	427	1	
5312 pig iron	100	36				65			
5315 ferro alloys	166	4				158	4		
5320 i&s primary forms	165	20			54	36	55		
5330 i&s plates & sheets	94	6	1			2	85		
5360 i&s bars & shapes	233	49		1	55	110	17		
5370 i&s pipe & tube	16	6		0		6	4	1	
5390 primary i&s nec	463	30			33	139	261		
Subtotal primary non-ferrous metal products	329	111	0		21	48	149		
5422 aluminum	3					3			
5429 smelted prod. nec	14	2				7	5		
5480 fab. metal products	312	108	0		21	38	145		
Subtotal primary wood products	2	2							
5540 primary wood prod.	2	2							
Total food and farm products	17,644	128			16,868	47	586	4	11
Subtotal grain	12,451	21			12,055	5	359	3	8
6241 wheat	687				638	2	42		6
6344 corn	11,721	2			11,404		311	3	2
6443 barley & rye	15	15							
6445 oats	15	5				3	7		
6447 sorghum grains	13				13				

ILLINOIS WATERWAY, IL (CONSOLIDATED REPORT FOR ENTIRE WATERWAY)
 Freight Traffic, 1990 - continued
 (thousand tons)

Commodity	Total	Internal							
		Inbound		Outbound		Through		Intra	
		Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd	Upbound	Downbnd
Subtotal oilseeds	3,291	-----	-----	-----	3,086	-----	200	1	3
6522 soybeans	3,205	-----	-----	-----	3,001	-----	200	1	3
6590 oilseeds nec	86	-----	-----	-----	86	-----	-----	-----	-----
Subtotal vegetable products	5	5	-----	-----	-----	-----	-----	-----	-----
6653 vegetable oils	5	5	-----	-----	-----	-----	-----	-----	-----
Subtotal processed grain and animal feed	1,755	19	-----	-----	1,722	-----	14	-----	-----
6746 wheat flour	4	-----	-----	-----	-----	-----	4	-----	-----
6747 grain mill products	135	4	-----	-----	131	-----	-----	-----	-----
6782 animal feed, prep.	1,615	15	-----	-----	1,591	-----	10	-----	-----
Subtotal other agricultural products	141	82	-----	-----	5	42	12	-----	-----
6838 tallow, animal oils	13	-----	-----	-----	1	-----	11	-----	-----
6861 sugar	61	35	-----	-----	-----	27	-----	-----	-----
6865 molasses	64	47	-----	-----	1	15	-----	-----	-----
6889 food products nec	3	-----	-----	-----	2	-----	1	-----	-----
Total all manufactured equipment, machinery and products	45	6	26	-----	2	7	4	-----	-----
7110 machinery (not elec)	43	4	26	-----	1	7	4	-----	-----
7210 vehicles & parts	1	-----	-----	-----	1	-----	-----	-----	-----
7500 textile products	2	2	-----	-----	-----	-----	-----	-----	-----
Total waste and scrap nec	78	-----	58	-----	-----	-----	-----	-----	20
8900 waste and scrap nec	78	-----	58	-----	-----	-----	-----	-----	20
Ton-miles Internal (x1000)	8,677,140	2,154,792	41,655	52,677	3,974,673	1,317,920	681,259	368,710	85,454
Tons All Traffic (x1000)			43,318						
Ton-miles All Traffic (x1000)			8,678,320						

Section 2
Trips and Drafts of Vessels

Trips and Drafts of Vessels, 1990
(draft in feet)

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

TWO HARBORS (AGATE BAY), MN

Grand Total	Inbound						Outbound					
	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
	270	264	6	---	---	---	281	275	6	---	---	---

DOMESTIC

Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	
31	---	---	---	---	---	8	8	---	---	---	---	
30	---	---	---	---	---	1	1	---	---	---	---	
28	8	8	---	---	---	22	22	---	---	---	---	
27	5	5	---	---	---	166	166	---	---	---	---	
26	---	---	---	---	---	64	64	---	---	---	---	
25	21	21	---	---	---	8	8	---	---	---	---	
24	52	52	---	---	---	2	2	---	---	---	---	
23	50	50	---	---	---	3	3	---	---	---	---	
22	17	17	---	---	---	1	1	---	---	---	---	
21	24	24	---	---	---	---	---	---	---	---	---	
20	36	36	---	---	---	---	---	---	---	---	---	
19	25	25	---	---	---	---	---	---	---	---	---	
18	18	18	---	---	---	---	---	---	---	---	---	
17	4	4	---	---	---	---	---	---	---	---	---	
15	4	4	---	---	---	---	---	---	---	---	---	
13	1	---	1	---	---	---	---	---	---	---	---	
≤ 12	5	---	5	---	---	6	---	6	---	---	---	
											Total trips:	551

DULUTH-SUPERIOR HARBOR, MN AND WI

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
	2,476	1,307	257	316	586	10	2,484	1,316	260	312	586	10

FOREIGN

Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker	Total	Pass & Dry Cargo	Tanker	Tow or Tug	Dry Cargo	Tanker
27	---	---	---	---	---	14	14	---	---	---	---
26	5	5	---	---	---	184	184	---	---	---	---
25	7	7	---	---	---	7	7	---	---	---	---
24	10	10	---	---	---	6	6	---	---	---	---
23	33	32	1	---	---	34	33	1	---	---	---
22	59	59	---	---	---	9	9	---	---	---	---
21	53	51	2	---	---	4	4	---	---	---	---
20	70	70	---	---	---	13	13	---	---	---	---
19	16	16	---	---	---	5	5	---	---	---	---
18	35	35	---	---	---	5	5	---	---	---	---
17	2	2	---	---	---	2	1	1	---	---	---
16	160	160	---	---	---	4	2	2	---	---	---
15	2	2	---	---	---	3	3	---	---	---	---
14	4	4	---	---	---	158	158	---	---	---	---
≤ 12	2	---	1	---	1	2	---	1	---	1	---

Trips and Drafts of Vessels, 1990
(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

DULUTH-SUPERIOR HARBOR - continued
Inbound

Outbound

DOMESTIC

Total	2,018	854	254	315	585	10	2,034	872	256	311	585	10
29	---	---	---	---	---	---	13	13	---	---	---	---
28	---	---	---	---	---	---	45	45	---	---	---	---
27	---	---	---	---	---	---	407	407	---	---	---	---
26	19	19	---	---	---	---	183	183	---	---	---	---
25	34	34	---	---	---	---	14	14	---	---	---	---
24	30	30	---	---	---	---	37	37	---	---	---	---
23	118	118	---	---	---	---	45	45	---	---	---	---
22	75	75	---	---	---	---	33	33	---	---	---	---
21	124	124	---	---	---	---	35	34	---	---	---	1
20	51	51	---	---	---	---	4	4	---	---	---	---
19	43	41	---	---	---	2	24	24	---	---	---	---
18	212	210	---	---	---	2	4	4	---	---	---	---
17	21	21	---	---	---	---	17	16	---	---	---	1
16	46	43	---	3	---	---	8	5	---	3	---	---
15	20	20	---	---	---	---	---	---	---	---	---	---
14	12	8	---	3	---	1	4	---	---	3	---	1
13	14	---	---	12	---	2	10	---	---	8	---	1
≤ 12	1,199	60	254	297	585	3	1,151	8	255	297	585	6
										Total trips:		4,960

TACONITE HARBOR, MN

Inbound

Outbound

Grand Total	213	212	1	---	---	---	216	216	---	---	---	---
--------------------	------------	------------	----------	-----	-----	-----	------------	------------	-----	-----	-----	-----

FOREIGN

Total	2	1	1	---	---	---	---	---	---	---	---	---
22	1	---	1	---	---	---	---	---	---	---	---	---
21	1	1	---	---	---	---	---	---	---	---	---	---

DOMESTIC

Total	211	211	---	---	---	---	216	216	---	---	---	---
29	---	---	---	---	---	---	2	2	---	---	---	---
28	---	---	---	---	---	---	50	50	---	---	---	---
27	---	---	---	---	---	---	117	117	---	---	---	---
26	1	1	---	---	---	---	44	44	---	---	---	---
25	---	---	---	---	---	---	1	1	---	---	---	---
23	82	82	---	---	---	---	1	1	---	---	---	---
22	25	25	---	---	---	---	---	---	---	---	---	---
21	6	6	---	---	---	---	---	---	---	---	---	---
20	5	5	---	---	---	---	---	---	---	---	---	---
19	14	14	---	---	---	---	---	---	---	---	---	---
18	59	59	---	---	---	---	---	---	---	---	---	---
17	5	5	---	---	---	---	---	---	---	---	---	---
16	4	4	---	---	---	---	---	---	---	---	---	---
15	2	2	---	---	---	---	1	1	---	---	---	---
14	1	1	---	---	---	---	---	---	---	---	---	---

Trips and Drafts of Vessels, 1990
(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 - continued

Inbound						Outbound					
DOMESTIC											
10	7	7	---	---	---	---	---	---	---	---	---
Total trips:											429

ASHLAND HARBOR, WI
(23 feet and less)

Inbound						Outbound					
Grand Total	7	7	---	---	---	7	7	---	---	---	---
Total trips:											14

BAYFIELD HARBOR, WI
(8 feet and less)

Inbound						Outbound					
Grand Total	5,331	5,331	---	---	---	5,342	5,342	---	---	---	---
Total trips:											10,673

BEAVER BAY HARBOR, MN
No Vessel Trips Reported

CHIPPEWA HARBOR (ISLE ROYALE), MI
No Vessel Trips Reported

CORNUCOPIA HARBOR, WI
No Vessel Trips Reported

GRAND MARAIS HARBOR, MN
No Vessel Trips Reported

KNIFE RIVER HARBOR, MN
No Vessel Trips Reported

LA POINTE HARBOR, WI
(8 feet and less)

Inbound						Outbound					
Grand Total	4,966	4,966	---	---	---	4,955	4,955	---	---	---	---
Total trips:											9,921

LUTSEN HARBOR, MN
No Vessel Trips Reported

WCSC: GREAT LAKES

Trips and Drafts of Vessels, 1990
(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 WING HARBOR, WI
No Vessel Trips Reported

WARROAD HARBOR, MN
No Vessel Trips Reported

SILVER BAY, MN
(29 feet and less)

	Inbound						Outbound							
Grand Total	90	90	----	----	----	----	87	87	----	----	----	----	Total trips:	177

Trips and Drafts of Vessels, 1990
(draft in feet)

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

WAUKEGAN HARBOR, IL

Inbound							Outbound					
Grand Total	72	71	----	----	1	----	72	71	----	----	1	----
DOMESTIC												
Total	72	71	----	----	1	----	72	71	----	----	1	----
20	9	9	----	----	----	----	----	----	----	----	----	----
19	19	18	----	----	1	----	----	----	----	----	----	----
18	8	8	----	----	----	----	----	----	----	----	----	----
17	8	8	----	----	----	----	----	----	----	----	----	----
16	15	15	----	----	----	----	3	3	----	----	----	----
15	9	9	----	----	----	----	7	6	----	----	1	----
14	3	3	----	----	----	----	12	12	----	----	----	----
13	1	1	----	----	----	----	19	19	----	----	----	----
≤ 12	----	----	----	----	----	----	31	31	----	----	----	----
											Total trips:	144

CHICAGO RIVER (MAIN AND NORTH BRANCH), IL

Upbound							Downbound					
Grand Total	1,873	162	----	406	1,068	237	4,078	2,413	----	366	1,068	231
DOMESTIC												
Total	1,873	162	----	406	1,068	237	4,078	2,413	----	366	1,068	231
≤ 12	1,873	162	----	406	1,068	237	4,078	2,413	----	366	1,068	231
											Total trips:	5,951

CHICAGO RIVER, SOUTH BRANCH, IL

Upbound							Downbound					
Grand Total	3,960	2,024	----	325	1,397	214	1,994	----	----	359	1,390	245
DOMESTIC												
Total	3,960	2,024	----	325	1,397	214	1,994	----	----	359	1,390	245
≤ 12	3,960	2,024	----	325	1,397	214	1,994	----	----	359	1,390	245
											Total trips:	5,954

LAKE CALUMET, IL

Upbound							Downbound					
Grand Total	656	24	56	60	345	171	648	21	55	58	345	169
FOREIGN												
Total	50	8	40	1	----	1	46	6	40	----	----	----

Trips and Drafts of Vessels, 1990
(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 - continued

Upbound

Downbound

FOREIGN

27	10	1	9	---	---	---	---	---	---	---	---	---
26	9	---	9	---	---	---	1	---	1	---	---	---
25	---	---	---	---	---	---	2	1	1	---	---	---
24	7	4	3	---	---	---	---	---	---	---	---	---
23	3	1	2	---	---	---	11	1	10	---	---	---
22	5	1	4	---	---	---	6	3	3	---	---	---
21	4	---	4	---	---	---	1	---	1	---	---	---
20	8	1	7	---	---	---	7	---	7	---	---	---
19	1	---	1	---	---	---	3	1	2	---	---	---
17	1	---	---	---	---	1	9	---	9	---	---	---
16	1	---	---	1	---	---	2	---	2	---	---	---
15	---	---	---	---	---	---	1	---	1	---	---	---
≤ 12	1	---	1	---	---	---	3	---	3	---	---	---

DOMESTIC

Total	606	16	16	59	345	170	602	15	15	58	345	169
22	4	4	---	---	---	---	---	---	---	---	---	---
21	11	9	2	---	---	---	---	---	---	---	---	---
20	3	1	2	---	---	---	---	---	---	---	---	---
17	9	1	8	---	---	---	1	1	---	---	---	---
16	4	1	3	---	---	---	4	4	---	---	---	---
15	---	---	---	---	---	---	3	3	---	---	---	---
14	1	---	---	1	---	---	8	7	---	---	---	---
13	28	---	1	27	---	---	47	---	15	25	7	---
≤ 12	546	---	---	31	345	170	539	---	---	32	338	169
										Total trips:		1,304

CALUMET HARBOR AND RIVER, IL AND IN

Upbound

Downbound

Grand Total	5,892	478	80	1,746	3,131	457	8,406	2,980	84	1,748	3,131	463
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FOREIGN

Total	237	167	65	5	---	---	237	159	68	4	---	6
27	11	11	---	---	---	---	29	20	9	---	---	---
26	12	11	1	---	---	---	22	10	12	---	---	---
25	6	5	1	---	---	---	12	12	---	---	---	---
24	10	10	---	---	---	---	28	25	3	---	---	---
23	40	28	12	---	---	---	26	23	3	---	---	---
22	27	21	6	---	---	---	29	19	10	---	---	---
21	20	19	1	---	---	---	35	23	12	---	---	---
20	41	29	12	---	---	---	22	11	11	---	---	---
19	16	13	3	---	---	---	8	6	1	---	---	1
18	11	11	---	---	---	---	8	7	1	---	---	---
17	24	7	17	---	---	---	4	3	---	---	---	1
16	4	1	3	---	---	---	4	---	1	3	---	---
15	4	---	4	---	---	---	2	---	1	---	---	1
≤ 12	11	1	5	5	---	---	8	---	4	1	---	3

Trips and Drafts of Vessels, 1990
(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

CALUMET HARBOR AND RIVER - continued
Upbound

Downbound

DOMESTIC

Total	5,655	311	15	1,741	3,131	457	8,169	2,821	16	1,744	3,131	457
28	---	---	---	---	---	---	16	16	---	---	---	---
27	---	---	---	---	---	---	22	22	---	---	---	---
26	2	2	---	---	---	---	35	35	---	---	---	---
24	10	10	---	---	---	---	---	---	---	---	---	---
23	1	1	---	---	---	---	2	2	---	---	---	---
22	15	15	---	---	---	---	21	21	---	---	---	---
21	26	26	---	---	---	---	32	30	2	---	---	---
20	11	11	---	---	---	---	4	2	2	---	---	---
19	20	20	---	---	---	---	4	4	---	---	---	---
18	34	34	---	---	---	---	32	32	---	---	---	---
17	17	17	---	---	---	---	16	8	8	---	---	---
16	9	8	---	---	---	1	8	5	3	---	---	---
15	8	7	---	1	---	---	2	1	---	1	---	---
14	66	12	---	54	---	---	54	1	---	53	---	---
13	135	39	15	70	11	---	147	74	1	70	1	1
≤ 12	5,301	109	---	1,616	3,120	456	7,774	2,568	---	1,620	3,130	456
										Total trips:	14,298	

PORT OF CHICAGO, IL

Inbound

Outbound

Grand Total	20,195	5,806	85	3,695	7,699	2,910	20,200	5,841	81	3,682	7,693	2,903
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FOREIGN

Total	235	159	68	5	---	3	239	167	65	4	---	3
27	29	20	9	---	---	---	11	11	---	---	---	---
26	22	10	12	---	---	---	12	11	1	---	---	---
25	12	12	---	---	---	---	6	5	1	---	---	---
24	28	25	3	---	---	---	10	10	---	---	---	---
23	26	23	3	---	---	---	40	28	12	---	---	---
22	29	19	10	---	---	---	27	21	6	---	---	---
21	35	23	12	---	---	---	20	19	1	---	---	---
20	22	11	11	---	---	---	41	29	12	---	---	---
19	8	6	1	---	---	1	16	13	3	---	---	---
18	8	7	1	---	---	---	11	11	---	---	---	---
17	4	3	---	---	---	1	24	7	17	---	---	---
16	1	---	1	---	---	---	7	1	3	3	---	---
15	2	---	1	---	---	1	4	---	4	---	---	---
≤ 12	9	---	4	5	---	---	10	1	5	1	---	3

DOMESTIC

Total	19,960	5,647	17	3,690	7,699	2,907	19,961	5,674	16	3,678	7,693	2,900
27	22	22	---	---	---	---	---	---	---	---	---	---
26	35	35	---	---	---	---	2	2	---	---	---	---
25	16	16	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	10	10	---	---	---	---
23	2	2	---	---	---	---	1	1	---	---	---	---

Trips and Drafts of Vessels, 1990
(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 - continued

Inbound

Outbound

DOMESTIC

22	24	24	---	---	---	---	15	15	---	---	---	---
21	29	27	2	---	---	---	26	26	---	---	---	---
20	4	2	2	---	---	---	11	11	---	---	---	---
19	4	4	---	---	---	---	20	20	---	---	---	---
18	28	28	---	---	---	---	38	38	---	---	---	---
17	16	8	8	---	---	---	17	17	---	---	---	---
16	8	5	3	---	---	---	9	8	---	---	---	1
15	3	1	---	1	---	1	9	8	---	---	---	---
14	58	1	---	52	---	5	76	11	---	65	---	---
13	155	80	1	70	2	2	132	33	15	74	10	---
≤ 12	19,556	5,392	1	3,567	7,697	2,899	19,595	5,474	1	3,538	7,683	2,899
											Total trips:	40,395

INDIANA HARBOR, IN

Inbound

Outbound

Grand Total	2,688	659	52	1,032	393	552	2,693	654	50	1,040	391	558
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FOREIGN

Total	61	53	2	2	2	2	61	50	1	5	---	5
27	37	37	---	---	---	---	4	4	---	---	---	---
26	12	12	---	---	---	---	2	2	---	---	---	---
25	1	1	---	---	---	---	3	3	---	---	---	---
24	2	2	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	38	38	---	---	---	---
22	1	1	---	---	---	---	3	3	---	---	---	---
21	1	---	1	---	---	---	---	---	---	---	---	---
20	1	---	---	---	1	---	2	---	1	---	---	1
16	1	---	---	---	1	---	3	---	---	1	---	2
15	---	---	---	---	---	---	2	---	---	---	---	2
≤ 12	5	---	1	2	---	2	4	---	---	4	---	---

DOMESTIC

Total	2,627	606	50	1,030	391	550	2,632	604	49	1,035	391	553
30	1	1	---	---	---	---	---	---	---	---	---	---
29	16	16	---	---	---	---	---	---	---	---	---	---
28	83	83	---	---	---	---	---	---	---	---	---	---
27	140	140	---	---	---	---	---	---	---	---	---	---
26	53	53	---	---	---	---	---	---	---	---	---	---
25	17	17	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	2	2	---	---	---	---
23	---	---	---	---	---	---	62	62	---	---	---	---
22	7	7	---	---	---	---	40	40	---	---	---	---
21	4	4	---	---	---	---	201	144	---	---	---	57
20	1	1	---	---	---	---	17	1	15	---	---	1
19	3	---	3	---	---	---	43	17	26	---	---	---
18	1	1	---	---	---	---	53	49	3	---	---	1
17	7	2	---	4	---	1	37	1	1	5	---	30
16	83	---	---	78	---	5	99	---	---	74	---	25

Trips and Drafts of Vessels, 1990
(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

INDIANA HARBOR - continued

Inbound							Outbound					
DOMESTIC												
15	17	---	---	15	---	2	30	---	1	16	---	13
14	93	---	---	26	---	67	37	---	---	32	---	5
13	63	13	---	49	---	1	285	222	---	50	2	11
≤ 12	2,038	268	47	858	391	474	1,726	66	3	858	389	410
											Total trips:	5,381

BURNS WATERWAY HARBOR, IN

Inbound							Outbound					
Grand Total	1,357	333	---	436	534	54	1,359	337	---	437	532	53

FOREIGN

Total	114	114	---	---	---	---	118	118	---	---	---	---
27	54	54	---	---	---	---	15	15	---	---	---	---
26	32	32	---	---	---	---	11	11	---	---	---	---
25	3	3	---	---	---	---	3	3	---	---	---	---
24	3	3	---	---	---	---	5	5	---	---	---	---
23	5	5	---	---	---	---	55	55	---	---	---	---
22	4	4	---	---	---	---	25	25	---	---	---	---
21	5	5	---	---	---	---	2	2	---	---	---	---
20	1	1	---	---	---	---	---	---	---	---	---	---
19	4	4	---	---	---	---	1	1	---	---	---	---
18	1	1	---	---	---	---	1	1	---	---	---	---
16	1	1	---	---	---	---	---	---	---	---	---	---
15	1	1	---	---	---	---	---	---	---	---	---	---

DOMESTIC

Total	1,243	219	---	436	534	54	1,241	219	---	437	532	53
27	45	45	---	---	---	---	---	---	---	---	---	---
26	69	69	---	---	---	---	---	---	---	---	---	---
25	3	3	---	---	---	---	---	---	---	---	---	---
24	4	4	---	---	---	---	1	1	---	---	---	---
23	3	3	---	---	---	---	1	1	---	---	---	---
22	1	1	---	---	---	---	42	42	---	---	---	---
21	1	1	---	---	---	---	14	14	---	---	---	---
20	---	---	---	---	---	---	18	18	---	---	---	---
19	---	---	---	---	---	---	31	31	---	---	---	---
18	1	1	---	---	---	---	7	7	---	---	---	---
17	1	1	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	3	3	---	---	---	---
13	86	81	---	1	4	---	6	4	---	2	---	---
≤ 12	1,029	10	---	435	530	54	1,118	98	---	435	532	53
											Total trips:	2,716

Trips and Drafts of Vessels, 1990
(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

CHICAGO HARBOR, IL
(15 feet and less)

				Upbound						Downbound		
Grand Total	5,249	5,127	----	93	----	29	5,211	5,092	----	91	----	28
										Total trips:		10,460

MICHIGAN CITY HARBOR, IN
No Vessel Trips Reported

BUFFINGTON HARBOR, IN
(27 feet and less)

				Inbound						Outbound		
Grand Total	128	43	----	32	53	----	123	43	----	28	52	----
										Total trips:		251

GARY HARBOR, IN
(32 feet and less)

				Inbound						Outbound		
Grand Total	892	268	----	243	381	----	887	264	----	243	380	----
										Total trips:		1,779

Trips and Drafts of Vessels, 1990
(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

PRESQUE ISLE HARBOR, MI

	Inbound						Outbound					
Grand Total	261	253	----	4	4	----	256	248	----	5	3	----
FOREIGN												
Total	79	79	----	----	----	----	79	79	----	----	----	----
27	---	---	---	---	---	---	18	18	---	---	---	---
26	---	---	---	---	---	---	4	4	---	---	---	---
24	2	2	---	---	---	---	7	7	---	---	---	---
23	22	22	---	---	---	---	47	47	---	---	---	---
22	17	17	---	---	---	---	2	2	---	---	---	---
21	9	9	---	---	---	---	---	---	---	---	---	---
20	10	10	---	---	---	---	---	---	---	---	---	---
19	17	17	---	---	---	---	---	---	---	---	---	---
18	2	2	---	---	---	---	1	1	---	---	---	---
DOMESTIC												
Total	182	174	----	4	4	----	177	169	----	5	3	----
28	2	2	---	---	---	---	1	1	---	---	---	---
27	1	1	---	---	---	---	91	90	---	---	1	---
26	2	2	---	---	---	---	41	41	---	---	---	---
25	12	12	---	---	---	---	1	1	---	---	---	---
24	8	8	---	---	---	---	---	---	---	---	---	---
23	21	21	---	---	---	---	4	4	---	---	---	---
22	8	8	---	---	---	---	3	3	---	---	---	---
21	2	2	---	---	---	---	7	7	---	---	---	---
20	17	17	---	---	---	---	2	2	---	---	---	---
19	3	3	---	---	---	---	3	3	---	---	---	---
18	56	56	---	---	---	---	3	3	---	---	---	---
17	3	3	---	---	---	---	---	---	---	---	---	---
16	12	12	---	---	---	---	---	---	---	---	---	---
15	6	5	---	---	---	1	---	---	---	---	---	---
14	4	---	---	4	---	---	7	2	---	5	---	---
≤ 12	25	22	---	---	---	3	14	12	---	---	2	---
											Total trips:	517

MARQUETTE HARBOR, MI

	Inbound						Outbound					
Grand Total	37	32	----	4	1	----	44	39	----	4	1	----
FOREIGN												
Total	3	3	----	----	----	----	3	3	----	----	----	----
23	1	1	---	---	---	---	3	3	---	---	---	---
22	2	2	---	---	---	---	---	---	---	---	---	---
DOMESTIC												
Total	34	29	----	4	1	----	41	36	----	4	1	----
24	1	1	---	---	---	---	---	---	---	---	---	---
23	2	2	---	---	---	---	---	---	---	---	---	---

Trips and Drafts of Vessels, 1990
(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 - continued

Inbound

Outbound

DOMESTIC

22	22	22	---	---	---	---	2	2	---	---	---	---
21	1	1	---	---	---	---	4	4	---	---	---	---
20	1	1	---	---	---	---	7	7	---	---	---	---
19	1	1	---	---	---	---	3	3	---	---	---	---
18	1	1	---	---	---	---	5	5	---	---	---	---
17	---	---	---	---	---	---	3	3	---	---	---	---
16	---	---	---	---	---	---	5	5	---	---	---	---
15	---	---	---	---	---	---	1	1	---	---	---	---
14	4	---	---	4	---	---	4	---	---	4	---	---
≤ 12	1	---	---	---	1	---	7	6	---	---	1	---
Total trips:											81	

DRUMMOND ISLAND, MI

Inbound

Outbound

Grand Total	11,356	11,356	---	---	---	---	11,359	11,359	---	---	---	---
--------------------	---------------	---------------	------------	------------	------------	------------	---------------	---------------	------------	------------	------------	------------

FOREIGN

Total	16	16	---	---	---	---	15	15	---	---	---	---
24	---	---	---	---	---	---	7	7	---	---	---	---
23	3	3	---	---	---	---	6	6	---	---	---	---
22	2	2	---	---	---	---	1	1	---	---	---	---
21	4	4	---	---	---	---	1	1	---	---	---	---
20	4	4	---	---	---	---	---	---	---	---	---	---
19	2	2	---	---	---	---	---	---	---	---	---	---
18	1	1	---	---	---	---	---	---	---	---	---	---

DOMESTIC

Total	11,340	11,340	---	---	---	---	11,344	11,344	---	---	---	---
26	---	---	---	---	---	---	6	6	---	---	---	---
25	---	---	---	---	---	---	17	17	---	---	---	---
24	---	---	---	---	---	---	10	10	---	---	---	---
23	---	---	---	---	---	---	7	7	---	---	---	---
22	---	---	---	---	---	---	3	3	---	---	---	---
21	---	---	---	---	---	---	1	1	---	---	---	---
19	4	4	---	---	---	---	---	---	---	---	---	---
18	10	10	---	---	---	---	---	---	---	---	---	---
17	14	14	---	---	---	---	---	---	---	---	---	---
16	3	3	---	---	---	---	---	---	---	---	---	---
15	6	6	---	---	---	---	---	---	---	---	---	---
14	1	1	---	---	---	---	---	---	---	---	---	---
≤ 12	11,302	11,302	---	---	---	---	11,300	11,300	---	---	---	---
Total trips:											22,715	

Trips and Drafts of Vessels, 1990
(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

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	
33,905	33,861		4	22	8	10	33,806	33,767		4	17	7	11

FOREIGN

Total	593	571	4	13	5	---	552	531	4	12	4	1
27	---	---	---	---	---	---	32	32	---	---	---	---
26	5	5	---	---	---	---	188	188	---	---	---	---
25	7	7	---	---	---	---	7	7	---	---	---	---
24	19	19	---	---	---	---	13	13	---	---	---	---
23	65	64	1	---	---	---	84	83	1	---	---	---
22	82	81	1	---	---	---	11	11	---	---	---	---
21	68	66	2	---	---	---	4	4	---	---	---	---
20	84	84	---	---	---	---	13	13	---	---	---	---
19	36	35	---	1	---	---	7	6	---	1	---	---
18	38	38	---	---	---	---	6	6	---	---	---	---
17	4	4	---	---	---	---	2	1	1	---	---	---
16	161	160	---	1	---	---	5	2	2	1	---	---
15	4	2	---	2	---	---	4	3	---	1	---	---
14	4	4	---	---	---	---	159	158	---	1	---	---
13	---	---	---	---	---	---	2	2	---	---	---	---
≤ 12	16	2	---	9	5	---	15	2	---	8	4	1

DOMESTIC

Total	33,312	33,290	---	9	3	10	33,254	33,236	---	5	3	10
31	---	---	---	---	---	---	8	8	---	---	---	---
30	---	---	---	---	---	---	1	1	---	---	---	---
29	---	---	---	---	---	---	27	27	---	---	---	---
28	8	8	---	---	---	---	122	122	---	---	---	---
27	6	6	---	---	---	---	793	792	---	---	1	---
26	29	29	---	---	---	---	381	381	---	---	---	---
25	78	78	---	---	---	---	17	17	---	---	---	---
24	97	97	---	---	---	---	35	35	---	---	---	---
23	258	258	---	---	---	---	25	25	---	---	---	---
22	126	126	---	---	---	---	12	12	---	---	---	---
21	141	141	---	---	---	---	4	3	---	---	---	1
20	109	109	---	---	---	---	1	1	---	---	---	---
19	55	53	---	---	---	2	3	3	---	---	---	---
18	384	382	---	---	---	2	2	2	---	---	---	---
17	49	49	---	---	---	---	15	14	---	---	---	1
16	58	55	---	3	---	---	5	2	---	3	---	---
15	37	36	---	---	1	---	1	1	---	---	---	---
14	9	7	---	1	---	1	2	---	---	1	---	1
13	7	---	---	5	---	2	2	---	---	1	---	1
≤ 12	31,861	31,856	---	---	2	3	31,798	31,790	---	---	2	6
										Total trips:		67,711

Trips and Drafts of Vessels, 1990
(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)

Grand Total	Upbound						Downbound					
	1,984	1,956	4	10	4	10	2,003	1,979	4	6	4	10

FOREIGN

Total	542	536	4	1	1	---	534	528	4	1	1	---
27	---	---	---	---	---	---	32	32	---	---	---	---
26	5	5	---	---	---	---	188	188	---	---	---	---
25	7	7	---	---	---	---	7	7	---	---	---	---
24	12	12	---	---	---	---	13	13	---	---	---	---
23	56	55	1	---	---	---	84	83	1	---	---	---
22	79	78	1	---	---	---	11	11	---	---	---	---
21	63	61	2	---	---	---	4	4	---	---	---	---
20	80	80	---	---	---	---	13	13	---	---	---	---
19	33	33	---	---	---	---	5	5	---	---	---	---
18	37	37	---	---	---	---	6	6	---	---	---	---
17	2	2	---	---	---	---	2	1	1	---	---	---
16	160	160	---	---	---	---	4	2	2	---	---	---
15	2	2	---	---	---	---	3	3	---	---	---	---
14	4	4	---	---	---	---	158	158	---	---	---	---
13	---	---	---	---	---	---	2	2	---	---	---	---
≤ 12	2	---	---	1	1	---	2	---	---	1	1	---

DOMESTIC

Total	1,442	1,420	---	9	3	10	1,469	1,451	---	5	3	10
31	---	---	---	---	---	---	8	8	---	---	---	---
30	---	---	---	---	---	---	1	1	---	---	---	---
29	---	---	---	---	---	---	27	27	---	---	---	---
28	8	8	---	---	---	---	122	122	---	---	---	---
27	6	6	---	---	---	---	793	792	---	---	1	---
26	23	23	---	---	---	---	381	381	---	---	---	---
25	61	61	---	---	---	---	17	17	---	---	---	---
24	87	87	---	---	---	---	35	35	---	---	---	---
23	250	250	---	---	---	---	25	25	---	---	---	---
22	123	123	---	---	---	---	12	12	---	---	---	---
21	140	140	---	---	---	---	4	3	---	---	---	1
20	109	109	---	---	---	---	---	---	---	---	---	---
19	51	49	---	---	---	2	3	3	---	---	---	---
18	374	372	---	---	---	2	2	2	---	---	---	---
17	35	35	---	---	---	---	15	14	---	---	---	1
16	55	52	---	3	---	---	5	2	---	3	---	---
15	31	30	---	---	1	---	1	1	---	---	---	---
14	8	6	---	1	---	1	2	---	---	1	---	1
13	7	---	---	5	---	2	2	---	---	1	---	1
≤ 12	74	69	---	---	2	3	14	6	---	---	2	6

Total trips: 3,987

Trips and Drafts of Vessels, 1990
(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

	Inbound						Outbound					
Grand Total	42	42	----	----	----	----	42	42	----	----	----	----
FOREIGN												
Total	4	4	----	----	----	----	4	4	----	----	----	----
21	2	2	----	----	----	----	2	2	----	----	----	----
20	2	2	----	----	----	----	2	2	----	----	----	----
19	----	----	----	----	----	----	----	----	----	----	----	----
DOMESTIC												
Total	38	38	----	----	----	----	38	38	----	----	----	----
26	3	3	----	----	----	----	----	----	----	----	----	----
24	1	1	----	----	----	----	----	----	----	----	----	----
23	16	16	----	----	----	----	----	----	----	----	----	----
22	2	2	----	----	----	----	----	----	----	----	----	----
21	8	8	----	----	----	----	----	----	----	----	----	----
20	3	3	----	----	----	----	----	----	----	----	----	----
19	5	5	----	----	----	----	----	----	----	----	----	----
18	----	----	----	----	----	----	11	11	----	----	----	----
17	----	----	----	----	----	----	21	21	----	----	----	----
16	----	----	----	----	----	----	3	3	----	----	----	----
15	----	----	----	----	----	----	2	2	----	----	----	----
≤ 12	----	----	----	----	----	----	1	1	----	----	----	----
											Total trips:	84

LUDINGTON HARBOR, MI

	Inbound						Outbound					
Grand Total	543	381	----	107	----	55	544	380	----	108	----	56
FOREIGN												
Total	----	----	----	----	----	----	1	----	----	1	----	----
≤ 12	----	----	----	----	----	----	1	----	----	1	----	----
DOMESTIC												
Total	543	381	----	107	----	55	543	380	----	107	----	56
26	10	10	----	----	----	----	1	1	----	----	----	----
25	5	5	----	----	----	----	----	----	----	----	----	----
24	4	4	----	----	----	----	5	5	----	----	----	----
23	6	6	----	----	----	----	2	2	----	----	----	----
22	5	5	----	----	----	----	6	6	----	----	----	----
21	----	----	----	----	----	----	1	1	----	----	----	----
20	3	3	----	----	----	----	1	1	----	----	----	----
19	341	341	----	----	----	----	345	345	----	----	----	----
18	4	4	----	----	----	----	14	6	----	----	----	8
17	3	3	----	----	----	----	4	2	----	----	----	2
16	----	----	----	----	----	----	4	1	----	----	----	3
15	----	----	----	----	----	----	4	1	----	----	----	3
14	87	----	----	87	----	----	93	----	----	87	----	6

Trips and Drafts of Vessels, 1990
(draft in feet)

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

LUDINGTON HARBOR - continued

Inbound							Outbound					
DOMESTIC												
13	16	---	---	16	---	---	21	4	---	16	---	1
≤ 12	59	---	---	4	---	55	43	6	---	4	---	33
											Total trips:	1,087

MUSKEGON HARBOR, MI

Inbound							Outbound					
Grand Total	185	110	---	39	---	36	186	109	---	40	---	37

FOREIGN

Total	6	6	---	---	---	---	7	7	---	---	---	---
25	1	1	---	---	---	---	1	1	---	---	---	---
23	3	3	---	---	---	---	1	1	---	---	---	---
22	2	2	---	---	---	---	2	2	---	---	---	---
21	---	---	---	---	---	---	1	1	---	---	---	---
20	---	---	---	---	---	---	1	1	---	---	---	---
18	---	---	---	---	---	---	1	1	---	---	---	---

DOMESTIC

Total	179	104	---	39	---	36	179	102	---	40	---	37
27	1	1	---	---	---	---	---	---	---	---	---	---
26	13	13	---	---	---	---	---	---	---	---	---	---
25	3	3	---	---	---	---	---	---	---	---	---	---
24	17	17	---	---	---	---	---	---	---	---	---	---
23	12	12	---	---	---	---	2	2	---	---	---	---
22	34	34	---	---	---	---	4	4	---	---	---	---
21	40	18	---	---	---	22	13	13	---	---	---	---
20	2	2	---	---	---	---	4	3	---	---	---	1
19	1	1	---	---	---	---	8	2	---	---	---	6
18	2	1	---	---	---	1	37	37	---	---	---	---
17	4	1	---	---	---	3	13	13	---	---	---	---
16	27	---	---	27	---	---	13	10	---	27	---	---
15	---	---	---	---	---	---	6	6	---	---	---	---
14	2	---	---	1	---	1	22	1	---	1	---	20
13	1	1	---	---	---	---	6	2	---	4	---	---
≤ 12	20	---	---	11	---	9	27	9	---	8	---	10
											Total trips:	371

GRAND HAVEN HARBOR AND GRAND RIVER, MI

Upbound							Downbound					
Grand Total	121	87	15	19	---	---	120	86	15	19	---	---

FOREIGN

Total	18	18	---	---	---	---	18	18	---	---	---	---
--------------	-----------	-----------	-----	-----	-----	-----	-----------	-----------	-----	-----	-----	-----

Trips and Drafts of Vessels, 1990
(draft in feet)

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

GRAND HAVEN HARBOR AND GRAND RIVER - continued

Upbound

Downbound

FOREIGN

23	3	3	---	---	---	---	4	4	---	---	---	---
22	9	9	---	---	---	---	5	5	---	---	---	---
21	4	4	---	---	---	---	4	4	---	---	---	---
20	2	2	---	---	---	---	3	3	---	---	---	---
19	---	---	---	---	---	---	2	2	---	---	---	---

DOMESTIC

Total	103	69	15	19	---	---	102	68	15	19	---	---
24	1	1	---	---	---	---	---	---	---	---	---	---
22	5	5	---	---	---	---	3	3	---	---	---	---
21	27	27	---	---	---	---	29	29	---	---	---	---
20	9	8	1	---	---	---	---	---	---	---	---	---
19	5	1	4	---	---	---	1	---	1	---	---	---
18	1	1	---	---	---	---	18	18	---	---	---	---
17	4	1	3	---	---	---	7	7	---	---	---	---
16	6	2	4	---	---	---	2	2	---	---	---	---
15	4	4	---	---	---	---	2	2	---	---	---	---
14	---	---	---	---	---	---	6	6	---	---	---	---
13	31	10	2	19	---	---	29	---	10	19	---	---
≤ 12	10	9	1	---	---	---	5	1	4	---	---	---

Total trips: 241

HOLLAND HARBOR, MI

Inbound

Outbound

Grand Total	34	33	---	1	---	---	31	30	---	1	---	---
--------------------	-----------	-----------	-----	----------	-----	-----	-----------	-----------	-----	----------	-----	-----

FOREIGN

Total	6	5	---	1	---	---	5	4	---	1	---	---
21	2	2	---	---	---	---	2	2	---	---	---	---
20	2	2	---	---	---	---	2	2	---	---	---	---
18	1	1	---	---	---	---	---	---	---	---	---	---
14	1	---	---	1	---	---	1	---	---	1	---	---

DOMESTIC

Total	28	28	---	---	---	---	26	26	---	---	---	---
24	1	1	---	---	---	---	---	---	---	---	---	---
23	16	16	---	---	---	---	---	---	---	---	---	---
22	1	1	---	---	---	---	---	---	---	---	---	---
21	5	5	---	---	---	---	---	---	---	---	---	---
20	2	2	---	---	---	---	---	---	---	---	---	---
19	1	1	---	---	---	---	---	---	---	---	---	---
18	2	2	---	---	---	---	2	2	---	---	---	---
17	---	---	---	---	---	---	20	20	---	---	---	---
16	---	---	---	---	---	---	1	1	---	---	---	---
13	---	---	---	---	---	---	2	2	---	---	---	---
10	---	---	---	---	---	---	1	1	---	---	---	---

Total trips: 65

Trips and Drafts of Vessels, 1990
(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. JOSEPH HARBOR, MI

Upbound							Downbound					
Grand Total	67	67	----	----	----	----	66	66	----	----	----	----
FOREIGN												
Total	3	3	----	----	----	----	3	3	----	----	----	----
21	3	3	----	----	----	----	3	3	----	----	----	----
DOMESTIC												
Total	64	64	----	----	----	----	63	63	----	----	----	----
23	1	1	----	----	----	----	----	----	----	----	----	----
22	24	24	----	----	----	----	----	----	----	----	----	----
21	22	22	----	----	----	----	----	----	----	----	----	----
20	5	5	----	----	----	----	----	----	----	----	----	----
19	5	5	----	----	----	----	1	1	----	----	----	----
18	2	2	----	----	----	----	7	7	----	----	----	----
17	3	3	----	----	----	----	7	7	----	----	----	----
16	----	----	----	----	----	----	17	17	----	----	----	----
15	1	1	----	----	----	----	11	11	----	----	----	----
14	----	----	----	----	----	----	2	2	----	----	----	----
13	----	----	----	----	----	----	9	9	----	----	----	----
≤ 12	1	1	----	----	----	----	9	9	----	----	----	----
											Total trips:	133

MILWAUKEE HARBOR, WI

Inbound							Outbound					
Grand Total	691	500	19	115	1	56	690	505	20	108	2	55
FOREIGN												
Total	77	77	----	----	----	----	78	78	----	----	----	----
27	3	3	----	----	----	----	7	7	----	----	----	----
26	16	16	----	----	----	----	3	3	----	----	----	----
25	12	12	----	----	----	----	5	5	----	----	----	----
24	12	12	----	----	----	----	9	9	----	----	----	----
23	15	15	----	----	----	----	18	18	----	----	----	----
22	6	6	----	----	----	----	14	14	----	----	----	----
21	4	4	----	----	----	----	12	12	----	----	----	----
20	5	5	----	----	----	----	4	4	----	----	----	----
19	1	1	----	----	----	----	2	2	----	----	----	----
18	----	----	----	----	----	----	1	1	----	----	----	----
15	1	1	----	----	----	----	----	----	----	----	----	----
14	1	1	----	----	----	----	----	----	----	----	----	----
13	----	----	----	----	----	----	1	1	----	----	----	----
≤ 12	1	1	----	----	----	----	2	2	----	----	----	----
DOMESTIC												
Total	614	423	19	115	1	56	612	427	20	108	2	55
26	3	3	----	----	----	----	----	----	----	----	----	----
25	6	6	----	----	----	----	----	----	----	----	----	----

Trips and Drafts of Vessels, 1990
(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 - continued

Inbound

Outbound

DOMESTIC

24	5	5	---	---	---	---	2	2	---	---	---	---
23	14	14	---	---	---	---	---	---	---	---	---	---
22	10	10	---	---	---	---	2	2	---	---	---	---
21	18	18	---	---	---	---	4	4	---	---	---	---
20	11	8	3	---	---	---	---	---	---	---	---	---
19	2	2	---	---	---	---	1	1	---	---	---	---
18	20	20	---	---	---	---	15	13	2	---	---	---
17	24	6	7	---	---	11	15	15	---	---	---	---
16	20	9	3	1	---	7	2	1	---	1	---	---
15	11	5	---	4	---	2	12	8	---	4	---	---
14	10	---	---	10	---	---	33	25	---	8	---	---
13	24	---	---	24	---	---	66	29	11	25	---	1
≤ 12	436	317	6	76	1	36	460	327	7	70	2	54
Total trips:											1,381	

GREEN BAY HARBOR, WI

Upbound

Downbound

Grand Total	166	134	4	14	1	13	163	132	4	13	1	13
--------------------	------------	------------	----------	-----------	----------	-----------	------------	------------	----------	-----------	----------	-----------

FOREIGN

Total	16	12	4	---	---	---	14	10	4	---	---	---
26	1	1	---	---	---	---	---	---	---	---	---	---
23	2	2	---	---	---	---	---	---	---	---	---	---
22	5	5	---	---	---	---	2	---	2	---	---	---
21	1	1	---	---	---	---	1	---	1	---	---	---
20	4	2	2	---	---	---	6	6	---	---	---	---
19	2	1	1	---	---	---	2	1	1	---	---	---
18	1	---	1	---	---	---	2	2	---	---	---	---
15	---	---	---	---	---	---	1	1	---	---	---	---

DOMESTIC

Total	150	122	---	14	1	13	149	122	---	13	---	13
26	9	9	---	---	---	---	---	---	---	---	---	---
25	8	8	---	---	---	---	---	---	---	---	---	---
24	2	2	---	---	---	---	---	---	---	---	---	---
23	9	9	---	---	---	---	---	---	---	---	---	---
22	33	33	---	---	---	---	2	2	---	---	---	---
21	22	22	---	---	---	---	3	3	---	---	---	---
20	30	29	---	---	1	---	---	---	---	---	---	---
19	4	4	---	---	---	---	5	5	---	---	---	---
18	4	4	---	---	---	---	34	34	---	---	---	---
17	1	1	---	---	---	---	22	22	---	---	---	---
16	5	---	---	1	---	4	6	4	---	2	---	---
15	11	1	---	3	---	7	12	8	---	3	1	---
14	8	---	---	6	---	2	12	8	---	4	---	---
13	---	---	---	---	---	---	7	7	---	---	---	---
≤ 12	4	---	---	4	---	---	46	29	---	4	---	13
Total trips:											329	

Trips and Drafts of Vessels, 1990
(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

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
	292	284	5	2	1	---	293	289	4	---	---	---

FOREIGN

Total	35	30	5	---	---	---	25	24	1	---	---	---
25	---	---	---	---	---	---	1	1	---	---	---	---
24	---	---	---	---	---	---	3	3	---	---	---	---
23	---	---	---	---	---	---	1	1	---	---	---	---
22	1	1	---	---	---	---	5	5	---	---	---	---
21	13	13	---	---	---	---	5	5	---	---	---	---
20	---	---	---	---	---	---	4	4	---	---	---	---
19	6	6	---	---	---	---	3	3	---	---	---	---
18	---	---	---	---	---	---	1	1	---	---	---	---
17	2	1	1	---	---	---	---	---	---	---	---	---
16	9	6	3	---	---	---	1	---	1	---	---	---
15	1	---	1	---	---	---	---	---	---	---	---	---
13	2	2	---	---	---	---	---	---	---	---	---	---
≤ 12	1	1	---	---	---	---	1	1	---	---	---	---

DOMESTIC

Total	257	254	---	2	1	---	268	265	3	---	---	---
26	2	2	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	2	2	---	---	---	---
24	2	2	---	---	---	---	51	51	---	---	---	---
23	3	3	---	---	---	---	4	4	---	---	---	---
22	8	8	---	---	---	---	106	106	---	---	---	---
21	7	7	---	---	---	---	39	39	---	---	---	---
20	7	7	---	---	---	---	12	12	---	---	---	---
19	1	1	---	---	---	---	12	12	---	---	---	---
18	---	---	---	---	---	---	20	20	---	---	---	---
17	27	27	---	---	---	---	11	11	---	---	---	---
15	---	---	---	---	---	---	1	1	---	---	---	---
14	41	41	---	---	---	---	---	---	---	---	---	---
13	58	58	---	---	---	---	---	---	---	---	---	---
≤ 12	101	98	---	2	1	---	10	7	3	---	---	---

Total trips: 585

SAGINAW 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
	309	246	15	30	1	17	325	251	14	36	1	23

FOREIGN

Total	47	37	10	---	---	---	49	37	12	---	---	---
26	2	2	---	---	---	---	---	---	---	---	---	---
25	1	1	---	---	---	---	9	9	---	---	---	---
24	7	6	1	---	---	---	11	10	1	---	---	---
23	6	6	---	---	---	---	6	6	---	---	---	---
22	7	6	1	---	---	---	7	6	1	---	---	---
21	6	3	3	---	---	---	4	3	1	---	---	---

Trips and Drafts of Vessels, 1990
(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 - continued

Upbound

Downbound

FOREIGN

20	11	11	---	---	---	---	3	2	1	---	---	---
19	1	1	---	---	---	---	1	1	---	---	---	---
18	---	---	---	---	---	---	3	---	3	---	---	---
17	1	1	---	---	---	---	3	---	3	---	---	---
16	2	---	---	---	---	---	2	---	2	---	---	---
13	2	---	---	---	---	---	---	---	---	---	---	---
≤ 12	1	---	---	1	---	---	---	---	---	---	---	---

DOMESTIC

Total	262	209	5	30	1	17	276	214	2	36	1	23
26	---	---	---	---	---	---	24	24	---	---	---	---
25	1	1	---	---	---	---	10	10	---	---	---	---
24	---	---	---	---	---	---	18	18	---	---	---	---
23	1	---	1	---	---	---	12	12	---	---	---	---
22	---	---	---	---	---	---	39	39	---	---	---	---
21	1	---	---	---	---	1	77	76	---	---	1	---
20	1	1	---	---	---	---	19	19	---	---	---	---
19	---	---	---	---	---	---	10	9	---	---	---	---
18	21	21	---	---	---	---	11	5	---	---	---	6
17	79	78	1	---	---	---	3	2	---	---	---	1
16	20	18	---	2	---	---	4	---	---	2	---	2
15	29	28	---	---	1	---	3	---	---	1	---	2
14	29	8	---	20	---	1	28	---	---	23	---	5
13	15	11	---	4	---	---	5	---	---	4	---	1
≤ 12	65	43	3	4	---	15	13	---	2	6	---	5
											Total trips:	634

ST. CLAIR RIVER, MI

Upbound

Downbound

Grand Total	3,345	2,990	142	108	37	68	3,383	3,014	147	120	40	62
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FOREIGN

Total	1,433	1,261	107	38	12	15	1,423	1,246	109	41	12	15
27	129	120	9	---	---	---	82	82	---	---	---	---
26	94	82	12	---	---	---	275	274	1	---	---	---
25	48	48	---	---	---	---	62	61	1	---	---	---
24	90	86	4	---	---	---	66	65	1	---	---	---
23	157	153	4	---	---	---	280	267	13	---	---	---
22	179	167	12	---	---	---	116	107	9	---	---	---
21	163	146	17	---	---	---	65	60	5	---	---	---
20	164	148	15	---	1	---	100	83	15	---	---	2
19	75	68	4	1	---	2	38	33	4	1	---	---
18	60	49	10	---	---	1	27	27	---	---	---	---
17	16	9	6	---	---	1	28	9	19	---	---	---
16	180	168	7	4	1	---	24	6	14	2	---	2
15	11	6	2	2	---	1	13	5	5	1	---	2
14	7	5	---	2	---	---	162	158	---	3	---	1
13	6	2	---	---	---	4	16	3	13	---	---	---

Trips and Drafts of Vessels, 1990
(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 - continued

Upbound							Downbound					
FOREIGN												
≤ 12	54	4	5	29	10	6	69	6	9	34	12	8
DOMESTIC												
Total	1,912	1,729	35	70	25	53	1,960	1,768	38	79	28	47
29							25	25				
28	1	1					102	102				
27	3	3					568	566			2	
26	26	26					410	410				
25	17	17					203	203				
24	26	26					123	123				
23	241	238	3				117	117				
22	88	88					76	76				
21	189	189					91	89	2			
20	133	132			1		50	39	11			
19	89	89					4	3	1			
18	432	432					11	5	5			1
17	173	172	1				14	6	7			1
16	76	68	2	3		3	15	2	3	2		8
15	71	62		5	1	3	7	1		4		2
14	83	60		21		2	33			31	1	1
13	40	9		17		1	21			20		
≤ 12	224	117	16	24	23	44	90	1	8	22	25	34
											Total trips:	6,728

PORT HURON, MI

Inbound							Outbound					
Grand Total	47	28		19			61	30		29	1	1
FOREIGN												
Total	6	6					13	5		6	1	1
27							1	1				
26	1	1					3	3				
23	1	1										
22							1	1				
21	1	1										
19	1	1										
18	1	1										
15	1	1										
14							1					1
≤ 12							7			6	1	
DOMESTIC												
Total	41	22		19			48	25		23		
26	11	11										
25	1	1										
22	1	1										
21	8	8										

Trips and Drafts of Vessels, 1990
(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 HURON - continued

Inbound							Outbound					
DOMESTIC												
20	---	---	---	---	---	---	1	1	---	---	---	---
18	---	---	---	---	---	---	9	9	---	---	---	---
17	1	1	---	---	---	---	12	12	---	---	---	---
15	---	---	---	---	---	---	3	3	---	---	---	---
14	10	---	---	10	---	---	6	---	---	6	---	---
13	7	---	---	7	---	---	15	---	---	15	---	---
≤ 12	2	---	---	2	---	---	2	---	---	2	---	---
											Total trips:	108

MARYSVILLE, MI

Inbound							Outbound					
Grand Total	78	38	---	16	5	19	65	32	---	11	4	18
FOREIGN												
Total	28	8	---	10	5	5	22	6	---	7	4	5
27	2	2	---	---	---	---	1	1	---	---	---	---
26	2	2	---	---	---	---	1	1	---	---	---	---
25	2	2	---	---	---	---	2	2	---	---	---	---
21	1	1	---	---	---	---	---	---	---	---	---	---
20	1	1	---	---	---	---	1	1	---	---	---	---
15	---	---	---	---	---	---	1	1	---	---	---	---
13	4	---	---	---	4	---	---	---	---	---	---	---
≤ 12	16	---	---	10	5	1	16	---	---	7	4	5
DOMESTIC												
Total	50	30	---	6	---	14	43	26	---	4	---	13
26	14	14	---	---	---	---	---	---	---	---	---	---
25	5	5	---	---	---	---	---	---	---	---	---	---
22	3	3	---	---	---	---	1	1	---	---	---	---
21	---	---	---	---	---	---	1	1	---	---	---	---
20	2	2	---	---	---	---	1	1	---	---	---	---
19	---	---	---	---	---	---	1	1	---	---	---	---
18	2	2	---	---	---	---	3	3	---	---	---	---
17	3	3	---	---	---	---	15	15	---	---	---	---
16	1	---	---	---	1	---	1	1	---	---	---	---
15	1	---	---	1	---	---	1	---	---	1	---	---
14	1	1	---	---	---	---	1	1	---	---	---	---
≤ 12	18	---	---	5	---	13	18	2	---	3	---	13
											Total trips:	143

Trips and Drafts of Vessels, 1990
(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, MI

	Inbound						Outbound					
Grand Total	146	121	----	8	----	17	147	124	----	10	3	10

FOREIGN

Total	----	----	----	----	----	----	8	----	----	4	3	1
≤ 12	----	----	----	----	----	----	8	----	----	4	3	1

DOMESTIC

Total	146	121	----	8	----	17	139	124	----	6	----	9
27	96	96	----	----	----	----	1	1	----	----	----	----
26	17	17	----	----	----	----	1	1	----	----	----	----
25	3	3	----	----	----	----	30	30	----	----	----	----
24	1	1	----	----	----	----	7	7	----	----	----	----
23	----	----	----	----	----	----	2	2	----	----	----	----
22	----	----	----	----	----	----	2	2	----	----	----	----
21	2	2	----	----	----	----	13	13	----	----	----	----
20	1	1	----	----	----	----	17	17	----	----	----	----
19	----	----	----	----	----	----	1	1	----	----	----	----
18	1	1	----	----	----	----	8	8	----	----	----	----
17	----	----	----	----	----	----	14	14	----	----	----	----
14	----	----	----	----	----	----	3	1	----	2	----	----
≤ 12	25	----	----	8	----	17	40	27	----	4	----	9
											Total trips:	293

MARINE CITY, MI

	Inbound						Outbound					
Grand Total	106	106	----	----	----	----	106	106	----	----	----	----

FOREIGN

Total	1	1	----	----	----	----	1	1	----	----	----	----
21	1	1	----	----	----	----	1	1	----	----	----	----
20	----	----	----	----	----	----	1	1	----	----	----	----

DOMESTIC

Total	105	105	----	----	----	----	105	105	----	----	----	----
28	11	11	----	----	----	----	----	----	----	----	----	----
27	43	43	----	----	----	----	----	----	----	----	----	----
26	26	26	----	----	----	----	----	----	----	----	----	----
25	6	6	----	----	----	----	----	----	----	----	----	----
24	1	1	----	----	----	----	----	----	----	----	----	----
23	10	10	----	----	----	----	60	60	----	----	----	----
22	4	4	----	----	----	----	----	----	----	----	----	----
21	4	4	----	----	----	----	----	----	----	----	----	----
18	----	----	----	----	----	----	27	27	----	----	----	----
17	----	----	----	----	----	----	16	16	----	----	----	----
16	----	----	----	----	----	----	2	2	----	----	----	----
											Total trips:	212

Trips and Drafts of Vessels, 1990
(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

CHANNELS IN LAKE ST. CLAIR

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
	3,099	2,753	142	100	37	67	3,128	2,767	147	113	40	61

FOREIGN

Total	1,433	1,261	107	38	12	15	1,423	1,246	109	41	12	15
27	129	120	9	---	---	---	82	82	---	---	---	---
26	94	82	12	---	---	---	275	274	1	---	---	---
25	48	48	---	---	---	---	62	61	1	---	---	---
24	90	86	4	---	---	---	66	65	1	---	---	---
23	157	153	4	---	---	---	280	267	13	---	---	---
22	179	167	12	---	---	---	116	107	9	---	---	---
21	163	146	17	---	---	---	65	60	5	---	---	---
20	164	148	15	---	1	---	100	83	15	---	---	2
19	75	68	4	1	---	2	38	33	4	1	---	---
18	60	49	10	---	---	1	27	27	---	---	---	---
17	16	9	6	---	---	1	28	9	19	---	---	---
16	180	168	7	4	1	---	24	6	14	2	---	2
15	11	6	2	2	---	1	13	5	5	1	---	2
14	7	5	---	2	---	---	162	158	---	3	---	1
13	6	2	---	---	---	4	16	3	13	---	---	---
≤ 12	54	4	5	29	10	6	69	6	9	34	12	8

DOMESTIC

Total	1,666	1,492	35	62	25	52	1,705	1,521	38	72	28	46
29	---	---	---	---	---	---	25	25	---	---	---	---
28	1	1	---	---	---	---	91	91	---	---	---	---
27	3	3	---	---	---	---	428	426	---	---	2	---
26	26	26	---	---	---	---	341	341	---	---	---	---
25	17	17	---	---	---	---	192	192	---	---	---	---
24	26	26	---	---	---	---	123	123	---	---	---	---
23	181	178	3	---	---	---	116	116	---	---	---	---
22	85	85	---	---	---	---	72	72	---	---	---	---
21	176	176	---	---	---	---	81	79	2	---	---	---
20	114	113	---	---	1	---	50	39	11	---	---	---
19	87	87	---	---	---	---	4	3	1	---	---	---
18	386	386	---	---	---	---	11	5	5	---	---	1
17	116	115	1	---	---	---	13	5	7	---	---	1
16	73	65	2	3	---	3	14	2	3	2	---	7
15	67	59	---	4	1	3	6	1	---	3	---	2
14	77	58	---	17	---	2	27	---	---	25	1	1
13	37	9	13	14	---	1	21	---	1	20	---	---
≤ 12	194	88	16	24	23	43	90	1	8	22	25	34
										Total trips:	6,227	

DETROIT 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
	6,313	4,964	182	608	296	263	6,211	4,982	181	527	259	262

FOREIGN

Total	4,166	3,312	119	386	271	78	4,076	3,295	125	346	231	79
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Trips and Drafts of Vessels, 1990
(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 - continued

Upbound

Downbound

FOREIGN

27	130	121	9	---	---	---	82	82	---	---	---	---
26	155	143	12	---	---	---	286	285	1	---	---	---
25	68	66	1	---	1	---	79	77	2	---	---	---
24	117	113	4	---	---	---	97	96	1	---	---	---
23	187	183	4	---	---	---	327	314	13	---	---	---
22	200	188	12	---	---	---	145	136	9	---	---	---
21	188	169	19	---	---	---	94	88	6	---	---	---
20	182	164	17	---	1	---	135	117	16	---	---	2
19	94	87	4	1	---	2	55	48	6	1	---	---
18	73	61	11	---	---	1	38	37	1	---	---	---
17	19	9	9	---	---	1	36	12	21	---	---	3
16	189	169	8	7	1	4	38	9	16	8	1	4
15	313	304	4	2	1	2	319	305	8	1	1	4
14	13	7	---	3	---	3	171	165	---	3	---	3
13	24	13	---	3	---	8	45	11	14	7	---	13
≤ 12	2,214	1,515	5	370	267	57	2,129	1,513	11	326	229	50

DOMESTIC

Total	2,147	1,652	63	222	25	185	2,135	1,687	56	181	28	183
29	---	---	---	---	---	---	25	25	---	---	---	---
28	1	1	---	---	---	---	91	91	---	---	---	---
27	3	3	---	---	---	---	428	426	---	---	2	---
26	29	29	---	---	---	---	341	341	---	---	---	---
25	27	27	---	---	---	---	192	192	---	---	---	---
24	60	60	---	---	---	---	123	123	---	---	---	---
23	199	196	3	---	---	---	117	117	---	---	---	---
22	102	102	---	---	---	---	79	79	---	---	---	---
21	191	191	---	---	---	---	90	86	4	---	---	---
20	123	122	---	---	1	---	70	46	24	---	---	---
19	114	114	---	---	---	---	21	19	2	---	---	---
18	390	390	---	---	---	---	93	82	6	---	---	5
17	121	119	1	---	---	1	40	26	7	---	---	7
16	97	71	2	21	---	3	43	5	3	13	---	22
15	92	67	1	19	1	4	40	25	---	13	---	2
14	124	61	1	53	---	9	64	---	---	62	1	1
13	60	11	16	30	---	3	39	2	2	35	---	---
≤ 12	414	88	39	99	23	165	239	2	8	58	25	146
											Total trips:	12,524

DETROIT HARBOR, MI

Inbound

Outbound

Grand Total	832	378	14	247	144	49	826	372	12	250	144	48
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FOREIGN

Total	448	133	2	161	144	8	444	129	1	164	144	6
27	1	1	---	---	---	---	---	---	---	---	---	---
26	23	23	---	---	---	---	5	5	---	---	---	---
25	10	8	1	---	1	---	9	8	1	---	---	---

Trips and Drafts of Vessels, 1990
(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 - continued

Inbound

Outbound

FOREIGN

24	18	18	---	---	---	---	19	19	---	---	---	---
23	12	12	---	---	---	---	17	17	---	---	---	---
22	13	13	---	---	---	---	16	16	---	---	---	---
21	13	13	---	---	---	---	19	19	---	---	---	---
20	7	7	---	---	---	---	15	15	---	---	---	---
19	14	14	---	---	---	---	5	5	---	---	---	---
18	8	8	---	---	---	---	4	4	---	---	---	---
17	1	---	1	---	---	---	1	1	---	---	---	---
16	---	---	---	---	---	---	3	1	---	2	---	---
15	---	---	---	---	---	---	1	1	---	---	---	---
14	2	2	---	---	---	---	6	6	---	---	---	---
13	9	9	---	---	---	---	11	8	---	3	---	---
≤ 12	317	5	---	161	143	8	313	4	---	159	144	6

DOMESTIC

Total	384	245	12	86	---	41	382	243	11	86	---	42
27	41	41	---	---	---	---	---	---	---	---	---	---
26	33	33	---	---	---	---	---	---	---	---	---	---
25	23	23	---	---	---	---	---	---	---	---	---	---
24	53	53	---	---	---	---	---	---	---	---	---	---
23	12	12	---	---	---	---	---	---	---	---	---	---
22	19	19	---	---	---	---	2	2	---	---	---	---
21	13	11	2	---	---	---	53	53	---	---	---	---
20	7	7	---	---	---	---	5	5	---	---	---	---
19	20	20	---	---	---	---	37	37	---	---	---	---
18	5	5	---	---	---	---	44	44	---	---	---	---
17	5	2	3	---	---	---	39	39	---	---	---	---
16	8	6	2	---	---	---	3	3	---	---	---	---
15	8	7	1	---	---	---	5	5	---	---	---	---
14	35	4	---	26	---	5	73	33	---	40	---	---
13	35	1	4	30	---	---	42	6	11	25	---	---
≤ 12	67	1	---	30	---	36	79	16	---	21	---	42
											Total trips:	1,658

ROUGE RIVER, MI

Inbound

Outbound

Grand Total	943	370	39	258	87	189	961	365	42	259	92	203
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FOREIGN

Total	355	63	6	148	87	51	371	66	10	152	92	51
26	28	28	---	---	---	---	6	6	---	---	---	---
25	9	9	---	---	---	---	8	8	---	---	---	---
24	9	9	---	---	---	---	10	10	---	---	---	---
23	4	4	---	---	---	---	11	11	---	---	---	---
22	1	1	---	---	---	---	5	5	---	---	---	---
21	4	3	1	---	---	---	4	3	1	---	---	---
20	8	6	2	---	---	---	15	14	1	---	---	---
19	---	---	---	---	---	---	7	5	2	---	---	---

Trips and Drafts of Vessels, 1990
(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

ROUGE RIVER - continued

Inbound

Outbound

FOREIGN

18	1	---	1	---	---	---	2	1	1	---	---	---
17	---	---	---	---	---	---	4	1	1	---	---	2
16	8	---	1	3	---	4	6	1	1	2	1	1
15	3	---	1	---	1	1	4	---	1	---	1	2
14	4	---	---	1	---	3	2	---	---	---	---	2
13	6	2	---	1	---	3	14	---	1	---	---	13
≤ 12	270	1	---	143	86	40	273	1	1	150	90	31

DOMESTIC

Total	588	307	33	110	---	138	590	299	32	107	---	152
28	18	18	---	---	---	---	---	---	---	---	---	---
27	97	97	---	---	---	---	---	---	---	---	---	---
26	25	25	---	---	---	---	---	---	---	---	---	---
25	45	45	---	---	---	---	---	---	---	---	---	---
24	12	12	---	---	---	---	1	1	---	---	---	---
23	40	40	---	---	---	---	4	4	---	---	---	---
22	30	30	---	---	---	---	3	3	---	---	---	---
21	15	15	---	---	---	---	17	16	1	---	---	---
20	29	18	11	---	---	---	17	4	13	---	---	---
19	4	3	1	---	---	---	15	14	1	---	---	---
18	6	1	4	---	---	1	210	205	1	---	---	4
17	2	2	---	---	---	---	35	26	2	---	---	7
16	23	1	---	17	---	5	40	3	2	17	---	18
15	17	---	---	15	---	2	37	18	---	15	---	4
14	31	---	---	28	---	3	25	---	1	18	---	6
13	2	---	---	2	---	---	4	1	---	2	---	1
≤ 12	192	---	17	48	---	127	182	4	11	55	---	112
Total trips:											1,904	

ECORSE, MI

Inbound

Outbound

Grand Total	124	44	1	39	4	36	127	44	1	40	6	36
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FOREIGN

Total	63	43	1	12	4	3	71	42	1	15	6	7
23	13	13	---	---	---	---	12	12	---	---	---	---
22	7	7	---	---	---	---	6	6	---	---	---	---
21	8	7	1	---	---	---	6	6	---	---	---	---
20	3	3	---	---	---	---	4	4	---	---	---	---
19	5	5	---	---	---	---	5	5	---	---	---	---
18	4	4	---	---	---	---	5	5	---	---	---	---
17	---	---	---	---	---	---	2	1	---	---	---	1
16	1	1	---	---	---	---	4	1	---	2	---	1
15	---	---	---	---	---	---	1	1	---	---	---	---
14	---	---	---	---	---	---	1	1	---	---	---	---
13	3	---	---	2	---	1	4	---	---	4	---	---
≤ 12	19	3	---	10	4	2	21	---	1	9	6	5

Trips and Drafts of Vessels, 1990
(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 - continued

Inbound

Outbound

DOMESTIC

Total	61	1	----	27	----	33	56	2	----	25	----	29
20	1	1	----	----	----	----	----	----	----	----	----	----
18	----	----	----	----	----	----	2	2	----	----	----	----
14	7	----	----	7	----	----	8	----	----	6	----	2
13	2	----	----	----	----	2	----	----	----	----	----	----
≤ 12	51	----	----	20	----	31	46	----	----	19	----	27
										Total trips:		251

TRENTON, MI

Inbound

Outbound

Grand Total	1,032	1,023	4	2	1	2	1,030	1,023	5	1	----	1
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FOREIGN

Total	967	962	3	1	----	1	966	962	4	----	----	----
26	10	10	----	----	----	----	----	----	----	----	----	----
25	1	1	----	----	----	----	----	----	----	----	----	----
24	----	----	----	----	----	----	2	2	----	----	----	----
23	1	1	----	----	----	----	7	7	----	----	----	----
22	----	----	----	----	----	----	2	2	----	----	----	----
20	----	----	----	----	----	----	1	1	----	----	----	----
17	2	----	2	----	----	----	1	----	1	----	----	----
16	----	----	----	----	----	----	1	----	1	----	----	----
15	1	----	1	----	----	----	2	----	2	----	----	----
≤ 12	952	950	----	1	----	1	950	950	----	----	----	----

DOMESTIC

Total	65	61	1	1	1	1	64	61	1	1	----	1
27	27	26	----	----	1	----	----	----	----	----	----	----
26	12	12	----	----	----	----	----	----	----	----	----	----
25	3	3	----	----	----	----	----	----	----	----	----	----
23	17	17	----	----	----	----	2	1	1	----	----	----
22	3	3	----	----	----	----	----	----	----	----	----	----
21	1	----	1	----	----	----	----	----	----	----	----	----
20	----	----	----	----	----	----	8	8	----	----	----	----
19	----	----	----	----	----	----	4	4	----	----	----	----
18	----	----	----	----	----	----	13	13	----	----	----	----
17	----	----	----	----	----	----	2	2	----	----	----	----
16	----	----	----	----	----	----	3	3	----	----	----	----
15	----	----	----	----	----	----	22	22	----	----	----	----
13	1	----	1	----	----	----	1	----	1	----	----	----
≤ 12	1	----	----	----	1	1	9	8	----	----	----	1
										Total trips:		2,062

Trips and Drafts of Vessels, 1990
(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 DETROIT, 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
	2,997	1,828	67	539	260	303	2,721	1,811	50	462	219	179

FOREIGN

Total	1,886	1,204	12	348	259	63	1,806	1,202	16	305	219	64
27	1	1										
26	61	61					11	11				
25	20	18	1		1		17	16	1			
24	27	27					31	31				
23	30	30					47	47				
22	21	21					29	29				
21	25	23	2				29	28	1			
20	18	16	2				35	34	1			
19	19	19					17	15	2			
18	13	12	1				11	10	1			
17	3		3				8	3	2			3
16	9	1	1	3		4	14	3	2	6	1	2
15	4		2		1	1	8	2	3			2
14	6	2		1		3	9	7			1	2
13	18	11		3		4	29	8	1	7		13
≤ 12	1,611	962		341	257	51	1,511	958	2	292	217	42

DOMESTIC

Total	1,111	624	55	191	1	240	915	609	34	157		115
28	18	18										
27	165	164			1							
26	70	70										
25	71	71										
24	65	65					1	1				
23	69	69					5	4	1			
22	52	52					7	7				
21	32	29	3				72	72				
20	39	28	11				32	19	13			
19	28	27	1				56	55	1			
18	11	6	4			1	268	263	1			4
17	8	4	3			1	75	67	2			6
16	34	7	2	20		5	43	9	2	14		18
15	29	7	1	18		3	60	45		12		3
14	13	4	1			8	53	33		19		1
13	53	2	4	45		2	32	6	11	14		1
≤ 12	354	1	25	108		220	211	28	3	98		82

Total trips: 5,718

MONROE 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
	50	50					47	47				
FOREIGN												
Total	7	7					6	6				

Trips and Drafts of Vessels, 1990
(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 - continued

Inbound

Outbound

FOREIGN

24	---	---	---	---	---	---	1	1	---	---	---	---
23	---	---	---	---	---	---	2	2	---	---	---	---
22	6	6	---	---	---	---	2	2	---	---	---	---
21	1	1	---	---	---	---	1	1	---	---	---	---

DOMESTIC

Total	43	43	---	---	---	---	41	41	---	---	---	---
25	31	31	---	---	---	---	---	---	---	---	---	---
24	8	8	---	---	---	---	---	---	---	---	---	---
23	2	2	---	---	---	---	---	---	---	---	---	---
21	2	2	---	---	---	---	1	1	---	---	---	---
20	---	---	---	---	---	---	4	4	---	---	---	---
19	---	---	---	---	---	---	1	1	---	---	---	---
18	---	---	---	---	---	---	13	13	---	---	---	---
17	---	---	---	---	---	---	2	2	---	---	---	---
14	---	---	---	---	---	---	5	5	---	---	---	---
10	---	---	---	---	---	---	15	15	---	---	---	---
Total trips:											97	

CALCITE, MI

Inbound

Outbound

Grand Total	570	567	---	1	1	1	577	574	---	1	1	1
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FOREIGN

Total	95	93	---	1	---	1	91	89	---	1	---	1
27	---	---	---	---	---	---	1	1	---	---	---	---
26	---	---	---	---	---	---	34	34	---	---	---	---
25	---	---	---	---	---	---	27	27	---	---	---	---
24	7	7	---	---	---	---	3	3	---	---	---	---
23	28	28	---	---	---	---	20	20	---	---	---	---
22	21	21	---	---	---	---	2	2	---	---	---	---
21	7	7	---	---	---	---	2	2	---	---	---	---
20	24	24	---	---	---	---	1	---	---	---	---	1
19	7	6	---	---	---	---	---	---	---	---	---	---
10	1	---	---	1	---	---	1	---	---	1	---	---

DOMESTIC

Total	475	474	---	---	1	---	486	485	---	---	1	---
26	2	2	---	---	---	---	89	89	---	---	---	---
25	2	2	---	---	---	---	134	134	---	---	---	---
24	5	5	---	---	---	---	28	28	---	---	---	---
23	15	15	---	---	---	---	77	77	---	---	---	---
22	21	21	---	---	---	---	56	56	---	---	---	---
21	76	76	---	---	---	---	68	67	---	---	1	---
20	10	10	---	---	---	---	26	26	---	---	---	---
19	36	36	---	---	---	---	3	3	---	---	---	---
18	119	119	---	---	---	---	2	2	---	---	---	---

Trips and Drafts of Vessels, 1990
(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 - continued

Inbound							Outbound					
DOMESTIC												
17	109	109	---	---	---	---	1	1	---	---	---	---
16	18	18	---	---	---	---	---	---	---	---	---	---
15	29	28	---	---	1	---	---	---	---	---	---	---
14	3	3	---	---	---	---	---	---	---	---	---	---
13	7	7	---	---	---	---	---	---	---	---	---	---
10	23	23	---	---	---	---	2	2	---	---	---	---
											Total trips:	1,147

ESCANABA, MI

Inbound							Outbound					
Grand Total	288	208	9	42	1	28	296	212	9	45	1	29

FOREIGN

Total	11	---	9	1	---	1	11	---	9	1	---	1
21	1	---	1	---	---	---	---	---	---	---	---	---
20	1	---	1	---	---	---	---	---	---	---	---	---
19	2	---	2	---	---	---	2	---	2	---	---	---
18	5	---	4	---	---	1	---	---	---	---	---	---
17	1	---	1	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	3	---	3	---	---	---
10	1	---	---	1	---	---	4	---	4	---	---	---
8	---	---	---	---	---	---	1	---	---	1	---	---

DOMESTIC

Total	277	208	---	41	1	27	285	212	---	44	1	28
30	---	---	---	---	---	---	1	1	---	---	---	---
29	---	---	---	---	---	---	14	14	---	---	---	---
28	---	---	---	---	---	---	79	79	---	---	---	---
27	---	---	---	---	---	---	76	75	---	---	1	---
26	---	---	---	---	---	---	14	14	---	---	---	---
23	24	24	---	---	---	---	---	---	---	---	---	---
22	33	33	---	---	---	---	1	1	---	---	---	---
21	86	78	---	---	---	8	9	9	---	---	---	---
20	9	4	---	---	---	5	2	1	---	---	---	1
19	14	11	---	---	---	3	4	3	---	---	---	1
18	21	20	---	---	---	1	12	11	---	---	---	1
17	2	1	---	---	---	1	2	2	---	---	---	1
16	26	4	---	---	---	1	2	2	---	---	---	---
15	6	3	---	21	---	1	24	1	---	22	---	1
14	2	---	---	---	1	---	1	1	---	---	---	---
13	17	---	---	1	---	1	20	---	---	2	---	18
12	2	---	---	17	---	---	20	---	---	20	---	---
11	1	---	---	2	---	---	---	---	---	---	---	---
10	30	30	---	---	---	---	---	---	---	---	---	---
9	3	---	---	---	---	3	---	---	---	---	---	---
3	---	---	---	---	---	---	1	---	---	---	---	1
2	1	---	---	---	---	1	3	---	---	---	---	3
											Total trips:	584

Trips and Drafts of Vessels, 1990
(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

	Inbound						Outbound					
Grand Total	456	423	----	11	22	----	471	427	----	21	23	----

FOREIGN

Total	36	36	----	----	----	----	37	37	----	----	----	----
27	---	---	---	---	---	---	6	6	---	---	---	---
26	---	---	---	---	---	---	15	15	---	---	---	---
25	1	1	---	---	---	---	3	3	---	---	---	---
24	12	12	---	---	---	---	8	8	---	---	---	---
23	8	8	---	---	---	---	1	1	---	---	---	---
22	5	5	---	---	---	---	3	3	---	---	---	---
21	6	6	---	---	---	---	1	1	---	---	---	---
20	2	2	---	---	---	---	---	---	---	---	---	---
19	1	1	---	---	---	---	---	---	---	---	---	---
15	1	1	---	---	---	---	---	---	---	---	---	---

DOMESTIC

Total	420	387	----	11	22	----	434	390	----	21	23	----
27	---	---	---	---	---	---	1	1	---	---	---	---
26	5	5	---	---	---	---	136	136	---	---	---	---
25	14	14	---	---	---	---	116	116	---	---	---	---
24	1	1	---	---	---	---	44	44	---	---	---	---
23	---	---	---	---	---	---	22	22	---	---	---	---
22	15	15	---	---	---	---	21	21	---	---	---	---
21	33	33	---	---	---	---	27	27	---	---	---	---
20	4	4	---	---	---	---	17	17	---	---	---	---
19	42	42	---	---	---	---	3	3	---	---	---	---
18	91	91	---	---	---	---	2	2	---	---	---	---
17	129	129	---	---	---	---	1	1	---	---	---	---
16	12	12	---	---	---	---	---	---	---	---	---	---
15	20	20	---	---	---	---	---	---	---	---	---	---
14	14	4	---	10	---	---	21	---	20	---	1	---
12	---	---	---	---	---	---	6	---	---	---	6	---
11	---	---	---	---	---	---	5	---	---	---	5	---
10	18	17	---	1	---	---	2	---	1	---	1	---
9	---	---	---	---	---	---	7	---	---	---	7	---
2	22	---	---	---	22	---	3	---	---	---	3	---
										Total trips:	927	----

ALGOMA HARBOR, WI
No Vessel Trips Reported

ALGONAC, MI
No Vessel Trips Reported

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

Trips and Drafts of Vessels, 1990
(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

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

CHEBOYGAN HARBOR, MI
(21 feet and less)

	Inbound						Outbound					
Grand Total	404	341	1	31	----	31	402	341	1	30	----	30
	Total trips: 806											

DETOUR, MI AND VICINITY
(19 feet and less)

	Inbound						Outbound					
Grand Total	11,300	11,300	----	----	----	----	11,301	11,301	----	----	----	----
	Total trips: 22,601											

DETROIT HARBOR, WI
(10 feet and less)

	Inbound						Outbound					
Grand Total	3,493	3,493	----	----	----	----	3,493	3,493	----	----	----	----
	Total trips: 6,986											

EAGLE HARBOR, MI
No Vessel Trips Reported

FRANKFORT HARBOR, MI
(20 feet and less)

	Inbound						Outbound					
Grand Total	30	----	6	12	----	12	27	----	6	11	----	10
	Total trips: 57											

GLADSTONE HARBOR, MI
(24 feet and less)

	Inbound						Outbound					
Grand Total	19	9	----	5	----	5	19	9	----	5	----	5
	Total trips: 38											

WCSC: GREAT LAKES

Trips and Drafts of Vessels, 1990
(draft in feet)

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

GRAND MARAIS HARBOR (HARBOR OF REFUGE), MI
No Vessel Trips Reported

GRAND TRAVERSE BAY HARBOR, MI
No Vessel Trips Reported

HARBOR BEACH, MI (HARBOR OF REFUGE, LAKE HURON)
(22 feet and less)

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

HARRISVILLE HARBOR, MI (HARBOR OF REFUGE, LAKE HURON)
No Vessel Trips Reported

KENOSHA HARBOR, WI
No Vessel Trips Reported

KEWAUNEE HARBOR, WI
(19 feet and less)

	Inbound						Outbound							
Grand Total	341	341	---	---	---	---	341	341	---	---	---	---	Total trips:	682

KEWEENAW WATERWAY, MI
(26 feet and less)

	Upbound						Downbound							
Grand Total	93	60	---	16	17	---	94	62	---	16	15	1	Total trips:	187

LAC LA BELLE HARBOR, MI
No Vessel Trips Reported

LELAND HARBOR, MI
(6 feet and less)

	Inbound						Outbound							
Grand Total	237	237	---	---	---	---	237	237	---	---	---	---	Total trips:	474

LIME ISLAND, MI
No Vessel Trips Reported

Trips and Drafts of Vessels, 1990
(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

MACKINAC HARBOR, MI
(9 feet and less)

	Inbound						Outbound					
Grand Total	13,056	13,056	-----	-----	-----	-----	13,553	13,553	-----	-----	-----	-----
											Total trips:	26,609

MACKINAW CITY HARBOR, MI
(23 feet and less)

	Inbound						Outbound					
Grand Total	5,238	5,190	35	7	-----	6	5,229	5,195	21	7	-----	6
											Total trips:	10,467

MANISTIQUE HARBOR, MI
No Vessel Trips Reported

MANITOWOC HARBOR, WI
(23 feet and less)

	Inbound						Outbound					
Grand Total	125	110	5	10	-----	-----	124	110	4	10	-----	-----
											Total trips:	249

MENOMINEE HARBOR AND RIVER, MI AND WI
(26 feet and less)

	Inbound						Outbound					
Grand Total	14	14	-----	-----	-----	-----	14	14	-----	-----	-----	-----
											Total trips:	28

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	11	11	-----	-----	-----	-----	10	10	-----	-----	-----	-----
											Total trips:	21

PENSAUKEE HARBOR, WI
No Vessel Trips Reported

Trips and Drafts of Vessels, 1990
(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
No Vessel Trips Reported

PORT SANILAC HARBOR, MI
No Vessel Trips Reported

PORT WASHINGTON HARBOR, WI
(25 feet and less)

	Inbound						Outbound					
Grand Total	8	8	----	----	----	----	8	8	----	----	----	----
											Total trips:	16

PUT-IN-BAY HARBOR, OH
(9 feet and less)

	Inbound						Outbound					
Grand Total	3,857	3,857	----	----	----	----	3,859	3,859	----	----	----	----
											Total trips:	7,716

RACINE HARBOR, WI
No Vessel Trips Reported

ROGERS CITY, MI
No Vessel Trips Reported

SAUGATUCK HARBOR AND KALAMAZOO RIVER, MI
(7 feet and less)

	Upbound						Downbound					
Grand Total	310	310	----	----	----	----	310	310	----	----	----	----
											Total trips:	620

SAULT STE. MARIE, MI
(23 feet and less)

	Inbound						Outbound					
Grand Total	17,505	17,489	----	12	4	----	17,497	17,482	----	11	3	1
											Total trips:	35,002

SEBEWAING, MI
No Vessel Trips Reported

SHEBOYGAN HARBOR, WI
(22 feet and less)

	Inbound						Outbound					
Grand Total	21	2	----	11	----	8	20	2	----	11	----	7
											Total trips:	41

Trips and Drafts of Vessels, 1990
(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

SOUTH HAVEN HARBOR, MI
No Vessel Trips Reported

ST. JAMES (BEAVER ISLAND), MI
(9 feet and less)

	Inbound						Outbound							
Grand Total	343	343	----	----	----	----	343	343	----	----	----	----	Total trips:	686

STURGEON BAY AND LAKE MICHIGAN SHIP CANAL, WI
(24 feet and less)

	Upbound						Downbound							
Grand Total	119	113	1	4	----	1	137	129	1	5	----	2	Total trips:	256

TRAVERSE CITY HARBOR, MI
(19 feet and less)

	Inbound						Outbound							
Grand Total	81	4	2	37	----	38	87	4	3	41	----	39	Total trips:	168

TWO RIVERS HARBOR, WI
No Vessel Trips Reported

WHITE LAKE HARBOR, MI
No Vessel Trips Reported

WHITEFISH POINT HARBOR, MI
No Vessel Trips Reported

WYANDOTTE, MI
(22 feet and less)

	Inbound						Outbound							
Grand Total	12	12	----	----	----	----	12	12	----	----	----	----	Total trips:	24

ALABASTER, MI
(24 feet and less)

	Inbound						Outbound							
Grand Total	41	41	----	----	----	----	44	44	----	----	----	----	Total trips:	85

Trips and Drafts of Vessels, 1990
(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
MARBLEHEAD, OH (24 feet and less)												
				Inbound							Outbound	
Grand Total	4,162	4,101	----	----	15	46	4,162	4,103	----	----	15	44
											Total trips: 8,324	
PORT DOLOMITE, MI (26 feet and less)												
				Inbound							Outbound	
Grand Total	286	285	----	1	----	----	285	284	----	----	1	571
											Total trips: 571	
PORT GYPSUM, MI (27 feet and less)												
				Inbound							Outbound	
Grand Total	40	39	----	----	1	----	38	37	----	----	1	78
											Total trips: 78	

Trips and Drafts of Vessels, 1990
(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	3,006	3,005	1	----	----	----	3,010	3,008	1	----	----	1

FOREIGN

Total	237	236	1	----	----	----	243	241	1	----	----	1
29	---	---	---	---	---	---	3	3	---	---	---	---
28	---	---	---	---	---	---	9	9	---	---	---	---
27	2	2	---	---	---	---	76	76	---	---	---	---
26	3	3	---	---	---	---	14	14	---	---	---	---
25	---	---	---	---	---	---	2	2	---	---	---	---
24	30	30	---	---	---	---	4	4	---	---	---	---
23	56	56	---	---	---	---	5	5	---	---	---	---
22	6	6	---	---	---	---	4	4	---	---	---	---
21	13	13	---	---	---	---	5	5	---	---	---	---
20	6	6	---	---	---	---	1	1	---	---	---	---
18	2	2	---	---	---	---	---	---	---	---	---	---
17	1	1	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	1	1	---	---	---	---
14	1	1	---	---	---	---	---	---	---	---	---	---
≤ 12	117	116	1	---	---	---	119	117	1	---	---	1

DOMESTIC

Total	2,769	2,769	----	----	----	----	2,767	2,767	----	----	----	----
27	---	---	---	---	---	---	1	1	---	---	---	---
26	---	---	---	---	---	---	4	4	---	---	---	---
25	---	---	---	---	---	---	4	4	---	---	---	---
24	---	---	---	---	---	---	24	24	---	---	---	---
23	1	1	---	---	---	---	9	9	---	---	---	---
22	7	7	---	---	---	---	4	4	---	---	---	---
21	8	8	---	---	---	---	2	2	---	---	---	---
20	5	5	---	---	---	---	12	12	---	---	---	---
19	6	6	---	---	---	---	4	4	---	---	---	---
18	34	34	---	---	---	---	5	5	---	---	---	---
17	3	3	---	---	---	---	1	1	---	---	---	---
16	4	4	---	---	---	---	2	2	---	---	---	---
15	1	1	---	---	---	---	7	7	---	---	---	---
≤ 12	2,700	2,700	---	---	---	---	2,688	2,688	---	---	---	---

Total trips: 6,016

HURON HARBOR, OH

	Inbound						Outbound					
Grand Total	43	43	----	----	----	----	43	42	----	----	----	1

FOREIGN

Total	8	8	----	----	----	----	9	8	----	----	----	1
24	4	4	---	---	---	---	---	---	---	---	---	---
23	4	4	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	2	2	---	---	---	---
21	---	---	---	---	---	---	2	2	---	---	---	---

Trips and Drafts of Vessels, 1990
(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

HURON HARBOR - continued

Inbound						Outbound					
FOREIGN											
20	---	---	---	---	---	4	4	---	---	---	---
14	---	---	---	---	---	1	---	---	---	---	1
DOMESTIC											
Total	35	35	---	---	---	34	34	---	---	---	---
26	8	8	---	---	---	---	---	---	---	---	---
25	15	15	---	---	---	---	---	---	---	---	---
23	6	6	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	4	4	---	---	---	---
21	---	---	---	---	---	4	4	---	---	---	---
20	2	2	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	17	17	---	---	---	---
17	---	---	---	---	---	5	5	---	---	---	---
≤ 12	4	4	---	---	---	4	4	---	---	---	---
Total trips:											86

LORAIN HARBOR, OH

Inbound						Outbound						
Grand Total	769	763	---	1	5	---	766	760	---	---	6	---
FOREIGN												
Total	15	14	---	1	---	---	15	15	---	---	---	---
27	1	1	---	---	---	---	---	---	---	---	---	---
26	6	6	---	---	---	1	1	---	---	---	---	---
25	1	1	---	---	---	---	---	---	---	---	---	---
24	1	1	---	---	---	1	1	---	---	---	---	---
23	---	---	---	---	---	3	3	---	---	---	---	---
22	1	1	---	---	---	2	2	---	---	---	---	---
21	1	1	---	---	---	4	4	---	---	---	---	---
20	3	3	---	---	---	4	4	---	---	---	---	---
≤ 12	1	---	---	1	---	---	---	---	---	---	---	---
DOMESTIC												
Total	754	749	---	---	5	---	751	745	---	---	6	---
28	28	28	---	---	---	---	---	---	---	---	---	---
27	112	112	---	---	---	1	1	---	---	---	---	---
26	63	63	---	---	---	3	3	---	---	---	---	---
25	---	---	---	---	---	118	118	---	---	---	---	---
24	1	1	---	---	---	95	94	---	---	---	1	---
23	5	5	---	---	---	93	93	---	---	---	---	---
22	7	7	---	---	---	41	36	---	---	---	5	---
21	7	7	---	---	---	57	57	---	---	---	---	---
20	1	1	---	---	---	17	17	---	---	---	---	---
19	---	---	---	---	---	32	32	---	---	---	---	---
18	23	23	---	---	---	34	34	---	---	---	---	---
17	107	107	---	---	---	7	7	---	---	---	---	---
16	1	1	---	---	---	1	1	---	---	---	---	---

Trips and Drafts of Vessels, 1990
(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 - continued

Inbound

Outbound

DOMESTIC

15	73	73	---	---	---	---	7	7	---	---	---	---
14	43	38	---	---	5	---	23	23	---	---	---	---
13	7	7	---	---	---	---	2	2	---	---	---	---
≤ 12	276	276	---	---	---	---	220	220	---	---	---	---
											Total trips:	1,535

CLEVELAND HARBOR, OH

Inbound

Outbound

Grand Total	1,640	1,354	27	159	32	68	1,624	1,351	27	152	28	66
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FOREIGN

Total	264	241	10	---	1	12	257	235	8	1	1	12
27	13	13	---	---	---	---	2	2	---	---	---	---
26	103	103	---	---	---	---	18	18	---	---	---	---
25	19	19	---	---	---	---	11	10	---	1	---	---
24	34	34	---	---	---	---	55	55	---	---	---	---
23	10	10	---	---	---	---	16	16	---	---	---	---
22	26	24	2	---	---	---	19	19	---	---	---	---
21	8	4	4	---	---	---	31	31	---	---	---	---
20	17	16	1	---	---	---	52	50	2	---	---	---
19	11	11	---	---	---	---	29	29	---	---	---	---
18	4	2	2	---	---	---	1	1	---	---	---	---
17	3	3	---	---	---	---	4	2	2	---	---	---
16	3	1	---	---	1	1	1	---	---	---	---	1
15	1	---	1	---	---	---	2	1	1	---	---	---
14	1	1	---	---	---	---	1	1	---	---	---	---
≤ 12	11	---	---	---	---	11	15	---	3	---	1	11

DOMESTIC

Total	1,376	1,113	17	159	31	56	1,367	1,116	19	151	27	54
28	2	2	---	---	---	---	---	---	---	---	---	---
27	27	27	---	---	---	---	---	---	---	---	---	---
26	18	18	---	---	---	---	2	2	---	---	---	---
25	148	148	---	---	---	---	---	---	---	---	---	---
24	155	154	---	---	1	---	1	1	---	---	---	---
23	78	76	2	---	---	---	27	27	---	---	---	---
22	51	46	---	---	5	---	19	19	---	---	---	---
21	52	51	1	---	---	---	7	7	---	---	---	---
20	32	24	8	---	---	---	5	5	---	---	---	---
19	15	15	---	---	---	---	21	21	---	---	---	---
18	16	10	2	---	---	4	73	73	---	---	---	---
17	21	15	3	---	---	3	167	167	---	---	---	---
16	23	4	1	7	---	11	27	20	---	---	---	---
15	13	4	---	9	---	---	140	130	1	7	---	---
14	112	---	---	108	1	3	153	48	---	100	5	---
13	13	2	---	10	---	1	31	17	4	10	---	---
≤ 12	600	517	---	25	24	34	694	579	14	25	22	54
											Total trips:	3,264

Trips and Drafts of Vessels, 1990
(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

FAIRPORT HARBOR, OH

	Inbound						Outbound					
Grand Total	497	497	----	----	----	----	493	493	----	----	----	----

FOREIGN

Total	32	32	----	----	----	----	32	32	----	----	----	----
27	1	1	----	----	----	----	1	1	----	----	----	----
26	-----	-----	----	----	----	----	1	1	----	----	----	----
25	4	4	----	----	----	----	13	13	----	----	----	----
24	4	4	----	----	----	----	4	4	----	----	----	----
23	4	4	----	----	----	----	1	1	----	----	----	----
22	5	5	----	----	----	----	7	7	----	----	----	----
21	3	3	----	----	----	----	2	2	----	----	----	----
20	3	3	----	----	----	----	1	1	----	----	----	----
19	2	2	----	----	----	----	-----	-----	----	----	----	----
18	-----	-----	----	----	----	----	1	1	----	----	----	----
17	-----	-----	----	----	----	----	1	1	----	----	----	----
15	6	6	----	----	----	----	-----	-----	----	----	----	----

DOMESTIC

Total	465	465	----	----	----	----	461	461	----	----	----	----
26	17	17	----	----	----	----	-----	-----	----	----	----	----
25	32	32	----	----	----	----	3	3	----	----	----	----
24	21	21	----	----	----	----	8	8	----	----	----	----
23	14	14	----	----	----	----	-----	-----	----	----	----	----
22	10	10	----	----	----	----	3	3	----	----	----	----
21	3	3	----	----	----	----	3	3	----	----	----	----
20	2	2	----	----	----	----	3	3	----	----	----	----
19	2	2	----	----	----	----	6	6	----	----	----	----
18	-----	-----	----	----	----	----	27	27	----	----	----	----
17	-----	-----	----	----	----	----	36	36	----	----	----	----
16	7	7	----	----	----	----	4	4	----	----	----	----
15	4	4	----	----	----	----	20	20	----	----	----	----
14	-----	-----	----	----	----	----	1	1	----	----	----	----
13	4	4	----	----	----	----	1	1	----	----	----	----
≤ 12	349	349	----	----	----	----	346	346	----	----	----	----

Total trips: 990

ASHTABULA HARBOR, OH

	Inbound						Outbound					
Grand Total	440	430	----	----	10	----	442	432	----	----	10	----

FOREIGN

Total	184	175	----	----	9	----	184	175	----	----	9	----
29	-----	-----	----	----	-----	----	11	11	----	----	-----	----
28	1	1	----	----	----	----	15	15	----	----	----	----
27	15	15	----	----	----	----	69	69	----	----	----	----
26	23	23	----	----	----	----	18	18	----	----	----	----
25	18	18	----	----	----	----	6	6	----	----	----	----
24	76	76	----	----	----	----	6	6	----	----	----	----

WCSC: GREAT LAKES

Trips and Drafts of Vessels, 1990
(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 - continued
Inbound

Outbound

FOREIGN

23	24	24	---	---	---	---	12	12	---	---	---	---
22	10	10	---	---	---	---	7	7	---	---	---	---
21	4	4	---	---	---	---	14	14	---	---	---	---
20	2	2	---	---	---	---	8	8	---	---	---	---
18	2	2	---	---	---	---	---	---	---	---	---	---
16	8	---	---	---	8	---	9	1	---	---	8	---
15	1	---	---	---	1	---	1	---	---	---	1	---
≤ 12	---	---	---	---	---	---	8	8	---	---	---	---

DOMESTIC

Total	256	255	---	---	1	---	258	257	---	---	1	---
28	22	22	---	---	---	---	---	---	---	---	---	---
27	96	95	---	---	1	---	---	---	---	---	---	---
26	47	47	---	---	---	---	4	4	---	---	---	---
25	4	4	---	---	---	---	11	11	---	---	---	---
24	---	---	---	---	---	---	4	4	---	---	---	---
23	8	8	---	---	---	---	29	29	---	---	---	---
22	3	3	---	---	---	---	6	6	---	---	---	---
21	4	4	---	---	---	---	20	20	---	---	---	---
20	3	3	---	---	---	---	39	39	---	---	---	---
19	1	1	---	---	---	---	3	3	---	---	---	---
18	31	31	---	---	---	---	53	53	---	---	---	---
17	10	10	---	---	---	---	10	10	---	---	---	---
16	2	2	---	---	---	---	22	22	---	---	---	---
15	16	16	---	---	---	---	5	4	---	---	1	---
14	3	3	---	---	---	---	---	---	---	---	---	---
≤ 12	6	6	---	---	---	---	52	52	---	---	---	---

Total trips: 882

CONNEAUT HARBOR, OH

Inbound

Outbound

Grand Total	283	283	---	---	---	---	282	282	---	---	---	---
--------------------	------------	------------	-----	-----	-----	-----	------------	------------	-----	-----	-----	-----

FOREIGN

Total	145	145	---	---	---	---	146	146	---	---	---	---
29	---	---	---	---	---	---	27	27	---	---	---	---
28	1	1	---	---	---	---	11	11	---	---	---	---
27	3	3	---	---	---	---	72	72	---	---	---	---
26	2	2	---	---	---	---	15	15	---	---	---	---
25	20	20	---	---	---	---	---	---	---	---	---	---
24	94	94	---	---	---	---	1	1	---	---	---	---
23	14	14	---	---	---	---	2	2	---	---	---	---
22	2	2	---	---	---	---	---	---	---	---	---	---
21	5	5	---	---	---	---	2	2	---	---	---	---
20	2	2	---	---	---	---	---	---	---	---	---	---
17	1	1	---	---	---	---	---	---	---	---	---	---
16	1	1	---	---	---	---	---	---	---	---	---	---
≤ 12	---	---	---	---	---	---	16	16	---	---	---	---

Trips and Drafts of Vessels, 1990
(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 - continued

	Inbound						Outbound					
DOMESTIC												
Total	138	138	----	----	----	----	136	136	----	----	----	----
28	7	7	----	----	----	----	1	1	----	----	----	----
27	23	23	----	----	----	----	1	1	----	----	----	----
26	23	23	----	----	----	----	7	7	----	----	----	----
25	9	9	----	----	----	----	11	11	----	----	----	----
24	-----	-----	----	----	----	----	12	12	----	----	----	----
23	2	2	----	----	----	----	23	23	----	----	----	----
22	5	5	----	----	----	----	12	12	----	----	----	----
21	3	3	----	----	----	----	9	9	----	----	----	----
20	1	1	----	----	----	----	27	27	----	----	----	----
19	4	4	----	----	----	----	5	5	----	----	----	----
18	22	22	----	----	----	----	16	16	----	----	----	----
17	16	16	----	----	----	----	8	8	----	----	----	----
16	2	2	----	----	----	----	4	4	----	----	----	----
15	6	6	----	----	----	----	-----	-----	----	----	----	----
13	6	6	----	----	----	----	-----	-----	----	----	----	----
≤ 12	9	9	----	----	----	----	-----	-----	----	----	----	----
											Total trips:	565

ERIE HARBOR, PA

	Inbound						Outbound					
Grand Total	664	660	----	3	1	----	665	661	----	4	----	----
FOREIGN												
Total	40	38	----	1	1	----	39	38	----	1	----	----
27	1	1	----	----	----	----	2	2	----	1	----	----
26	4	4	----	----	----	----	4	4	----	----	----	----
25	4	4	----	----	----	----	1	1	----	----	----	----
24	12	12	----	----	----	----	13	13	----	----	----	----
23	4	4	----	----	----	----	4	4	----	----	----	----
22	1	1	----	----	----	----	2	2	----	----	----	----
21	7	7	----	----	----	----	2	2	----	----	----	----
20	-----	-----	----	----	----	----	4	4	----	----	----	----
18	3	3	----	----	----	----	-----	-----	----	----	----	----
17	2	2	----	----	----	----	-----	-----	----	----	----	----
16	-----	-----	----	----	----	----	2	2	----	----	----	----
15	-----	-----	----	----	----	----	3	3	----	----	----	----
13	-----	-----	----	----	----	----	1	1	----	----	----	----
≤ 12	2	-----	----	1	1	----	1	-----	----	1	----	----
DOMESTIC												
Total	624	622	----	2	----	----	626	623	----	3	----	----
26	2	2	----	----	----	----	-----	-----	----	----	----	----
25	7	7	----	----	----	----	-----	-----	----	----	----	----
24	3	3	----	----	----	----	-----	-----	----	----	----	----
23	1	1	----	----	----	----	-----	-----	----	----	----	----
22	1	1	----	----	----	----	-----	-----	----	----	----	----

Trips and Drafts of Vessels, 1990
(draft in feet)

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

ERIE HARBOR - continued

Inbound

Outbound

DOMESTIC

21	2	2	---	---	---	---	---	---	---	---	---	---
20	2	2	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	3	3	---	---	---	---
17	---	---	---	---	---	---	3	3	---	---	---	---
16	---	---	---	---	---	---	1	1	---	---	---	---
15	---	---	---	---	---	---	8	8	---	---	---	---
14	206	206	---	---	---	---	---	---	---	---	---	---
13	3	2	---	1	---	---	3	2	---	1	---	---
≤ 12	397	396	---	1	---	---	608	606	---	2	---	---
										Total trips: 1,329		

BUFFALO HARBOR, NY

Upbound

Downbound

Grand Total	136	96	---	27	3	10	120	91	---	18	3	8
--------------------	-----	----	-----	----	---	----	-----	----	-----	----	---	---

FOREIGN

Total	35	28	---	4	3	---	29	19	---	5	3	2
25	---	---	---	---	---	---	1	1	---	---	---	---
24	1	1	---	---	---	---	3	3	---	---	---	---
23	3	3	---	---	---	---	1	1	---	---	---	---
22	---	---	---	---	---	---	9	9	---	---	---	---
21	---	---	---	---	---	---	3	3	---	---	---	---
20	3	3	---	---	---	---	---	---	---	---	---	---
19	7	7	---	---	---	---	---	---	---	---	---	---
18	5	5	---	---	---	---	---	---	---	---	---	---
17	8	8	---	---	---	---	---	---	---	---	---	---
16	2	---	---	---	2	---	3	---	---	2	---	1
15	2	1	---	---	1	---	2	1	---	---	1	---
13	---	---	---	---	---	---	1	---	---	---	---	1
≤ 12	4	---	---	4	---	---	6	1	---	3	2	---

DOMESTIC

Total	101	68	---	23	---	10	91	72	---	13	---	6
26	---	---	---	---	---	---	1	1	---	---	---	---
25	---	---	---	---	---	---	5	5	---	---	---	---
24	---	---	---	---	---	---	31	31	---	---	---	---
23	---	---	---	---	---	---	6	6	---	---	---	---
22	1	1	---	---	---	---	13	13	---	---	---	---
21	---	---	---	---	---	---	5	5	---	---	---	---
20	---	---	---	---	---	---	3	3	---	---	---	---
19	---	---	---	---	---	---	1	1	---	---	---	---
18	20	20	---	---	---	---	1	1	---	---	---	---
17	4	4	---	---	---	---	2	---	---	---	---	---
16	39	39	---	---	---	---	4	4	---	---	---	---
14	7	2	---	5	---	---	4	---	---	4	---	---
13	10	1	---	7	---	---	2	---	---	2	---	---
≤ 12	20	1	---	11	---	8	13	---	---	7	---	6
										Total trips: 256		

Trips and Drafts of Vessels, 1990
(draft in feet)

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

NIAGARA RIVER, NY

	Upbound						Downbound					
Grand Total	63	10	31	11	1	10	78	20	34	13	----	11

FOREIGN

Total	18	1	15	1	1	----	30	4	23	2	----	1
20	----	----	----	----	----	----	10	----	10	----	----	----
19	----	----	----	----	----	----	10	----	10	----	----	----
18	----	----	----	----	----	----	2	----	2	----	----	----
17	2	----	2	----	----	----	----	----	----	----	----	----
16	7	----	7	----	----	----	2	----	1	1	----	----
13	5	----	5	----	----	----	1	----	1	1	----	----
≤ 12	4	1	1	1	1	----	5	4	----	----	----	1

DOMESTIC

Total	45	9	16	10	----	10	48	16	11	11	----	10
21	----	9	16	10	----	10	4	2	2	11	----	10
20	2	----	2	----	----	----	18	12	6	----	----	----
19	----	----	----	----	----	----	3	2	1	----	----	----
18	2	2	----	----	----	----	----	----	----	----	----	----
17	----	----	----	----	----	----	3	----	----	----	----	3
16	3	----	----	3	----	----	10	----	4	----	----	6
15	8	5	----	3	----	----	3	----	3	----	----	----
13	2	2	----	----	----	----	----	----	----	----	----	----
≤ 12	28	----	14	4	----	10	7	----	2	4	----	1
Total trips:												141

PORT OF BUFFALO, NY

	Inbound						Outbound					
Grand Total	198	108	33	35	3	19	189	104	32	30	4	19

FOREIGN

Total	55	19	23	7	3	3	52	28	15	5	4	----
25	1	1	----	----	----	----	----	----	15	5	4	----
24	3	3	----	----	----	----	1	1	----	----	----	----
23	1	1	----	----	----	----	3	3	----	----	----	----
22	9	9	----	----	----	----	----	----	----	----	----	----
21	3	3	----	----	----	----	----	----	----	----	----	----
20	10	----	10	----	----	----	3	3	----	----	----	----
19	10	----	10	----	----	----	7	7	----	----	----	----
18	2	----	2	----	----	----	5	5	----	----	----	----
17	----	----	----	----	----	----	10	8	2	----	----	----
16	5	----	1	3	----	1	9	7	7	----	2	----
15	2	1	----	----	1	----	2	1	----	----	1	----
13	2	----	----	1	----	1	5	----	5	----	----	----
≤ 12	7	1	----	3	2	1	7	1	5	5	1	----

Trips and Drafts of Vessels, 1990
(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 - continued

Inbound

Outbound

DOMESTIC

Total	143	89	10	28	----	16	137	76	17	25	----	19
26	1	1	---	---	---	---	---	---	---	---	---	---
25	5	5	---	---	---	---	---	---	---	---	---	---
24	31	31	---	---	---	---	---	---	---	---	---	---
23	6	6	---	---	---	---	---	---	---	---	---	---
22	13	13	---	---	---	---	1	1	---	---	---	---
21	9	7	2	---	---	---	---	---	---	---	---	---
20	21	15	6	---	---	---	2	---	2	---	---	---
19	4	3	1	---	---	---	---	---	---	---	---	---
18	1	1	---	---	---	---	22	22	---	---	---	---
17	5	2	---	---	---	3	4	4	---	---	---	---
16	15	5	---	4	---	6	41	38	---	3	---	---
15	3	---	---	3	---	---	8	5	---	3	---	---
14	5	---	---	5	---	---	6	2	---	4	---	---
13	5	---	---	5	---	---	9	3	---	4	---	---
≤ 12	19	---	1	11	---	7	44	1	15	11	---	17
										Total trips:		387

OSWEGO HARBOR, NY

Inbound

Outbound

Grand Total	327	171	102	8	35	11	338	176	102	12	35	13
--------------------	------------	------------	------------	----------	-----------	-----------	------------	------------	------------	-----------	-----------	-----------

FOREIGN

Total	279	130	100	3	35	11	284	133	101	3	35	12
29	1	1	---	---	---	---	---	---	---	---	---	---
25	1	1	---	---	---	---	---	---	---	---	---	---
24	1	1	---	---	---	---	1	1	---	---	---	---
23	3	2	1	---	---	---	1	1	---	---	---	---
22	37	21	16	---	---	---	5	4	1	---	---	---
21	42	6	36	---	---	---	21	20	1	---	---	---
20	65	20	45	---	---	---	9	9	---	---	---	---
19	15	14	1	---	---	---	9	6	3	---	---	---
18	25	21	1	---	---	3	48	44	3	---	---	1
17	1	1	---	---	---	---	8	3	5	---	---	---
16	2	---	---	---	2	---	58	---	50	---	7	1
15	33	---	---	1	31	1	34	---	8	1	24	1
14	2	2	---	---	---	---	6	---	6	---	---	---
13	2	---	---	1	---	1	6	1	2	1	1	1
≤ 12	49	40	---	1	2	6	78	44	22	1	3	8

DOMESTIC

Total	48	41	2	5	----	----	54	43	1	9	----	1
20	2	---	2	---	---	---	---	---	---	---	---	---
14	1	---	---	1	---	---	5	---	---	5	---	---
≤ 12	45	41	---	4	---	---	49	43	1	4	---	1
										Total trips:		665

Trips and Drafts of Vessels, 1990
(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

DUNKIRK HARBOR, NY
No Vessel Trips Reported

GREAT SODUS BAY HARBOR, NY
No Vessel Trips Reported

KELLEYS ISLAND, OH
(8 feet and less)

				Inbound							Outbound	
Grand Total	4,249	4,249	----	----	----	----	4,249	4,249	----	----	Total trips:	8,498

NIAGARA FALLS, NY
No Vessel Trips Reported

OGDENSBURG HARBOR, NY
(22 feet and less)

				Inbound							Outbound	
Grand Total	28	28	----	----	----	----	30	30	----	----	Total trips:	58

PORT CLINTON HARBOR, OH
(10 feet and less)

				Inbound							Outbound	
Grand Total	38	38	----	----	----	----	36	36	----	----	Total trips:	74

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

				Inbound							Outbound	
Grand Total	46	46	----	----	----	----	46	46	----	----	Total trips:	92

SACKETS HARBOR, NY
No Vessel Trips Reported

Trips and Drafts of Vessels, 1990
(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

TONAWANDA HARBOR, NY
(20 feet and less)

	Upbound						Downbound					
Grand Total	39	-----	36	2	-----	1	39	-----	36	2	-----	1
	Total trips:											78

VERMILION HARBOR, OH
No Vessel Trips Reported

WADDINGTON HARBOR, NY
No Vessel Trips Reported

Trips and Drafts of Vessels, 1990
(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	25,347	5	4	3,946	18,030	3,362	25,353	5	2	3,952	18,031	3,363
DOMESTIC												
Total	25,347	5	4	3,946	18,030	3,362	25,353	5	2	3,952	18,031	3,363
13	1	---	---	---	1	---	4	---	---	---	4	---
12	78	---	---	---	34	44	59	---	---	---	37	22
11	227	---	---	10	172	45	119	---	---	11	92	16
10	686	---	2	48	513	123	927	---	1	69	764	93
9	6,540	---	---	1,066	4,158	1,316	7,601	4	---	1,117	5,742	738
8	5,114	---	---	1,058	3,254	802	7,583	1	1	1,083	6,100	398
7	1,313	---	---	1,052	145	116	1,362	---	---	992	333	37
6	618	1	---	468	88	61	584	---	---	431	82	71
5	347	---	---	233	96	18	257	---	---	219	36	2
4	59	---	---	6	41	12	94	---	---	9	14	71
3	54	---	---	---	45	9	159	---	---	---	7	152
2	10,056	4	2	5	9,246	799	6,335	---	---	21	4,630	1,684
1	254	---	---	---	237	17	269	---	---	---	190	79
Total trips:											50,700	

CHICAGO SANITARY AND SHIP CANAL, IL

Upbound							Downbound					
Grand Total	12,553	2,025	1	2,073	5,992	2,462	10,432	----	1	1,980	5,989	2,462
DOMESTIC												
Total	12,553	2,025	1	2,073	5,992	2,462	10,432	----	1	1,980	5,989	2,462
≤ 12	12,553	2,025	1	2,073	5,992	2,462	10,432	----	1	1,980	5,989	2,462
Total trips:											22,985	

CALUMET-SAG CHANNEL, IL

Upbound							Downbound					
Grand Total	2,220	----	----	357	1,093	770	4,216	2,024	----	333	1,119	740
DOMESTIC												
Total	2,220	----	----	357	1,093	770	4,216	2,024	----	333	1,119	740
12	4	---	---	---	3	1	4	---	---	---	---	4
11	8	---	---	---	3	5	10	---	---	---	1	9
10	116	---	---	13	96	7	88	---	---	19	24	45
9	495	---	---	20	345	130	604	---	---	19	250	335
8	531	---	---	259	187	85	599	---	---	265	277	57
7	255	---	---	58	184	13	130	---	---	29	69	32
6	20	---	---	6	9	5	29	---	---	---	21	8
5	3	---	---	---	1	2	2,039	2,024	---	---	10	5
4	8	---	---	---	7	1	4	---	---	---	1	3
3	---	---	---	---	---	---	3	---	---	---	---	3

Trips and Drafts of Vessels, 1990
(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

CALUMET-SAG CHANNEL - continued
Upbound

Downbound

DOMESTIC

2		748				1		240	507		671							1		440	230
1		32						18	14		35									26	9
																			Total trips:		6,436

ILLINOIS WATERWAY, IL

Upbound

Downbound

Grand Total	31,269	2,029	4	5,127	19,598	4,511	29,243	5	2	5,127	19,599	4,510
--------------------	---------------	--------------	----------	--------------	---------------	--------------	---------------	----------	----------	--------------	---------------	--------------

DOMESTIC

Total	31,269	2,029	4	5,127	19,598	4,511	29,243	5	2	5,127	19,599	4,510	
13	1				1		4				4	4	
≤ 12	31,268	2,029	4	5,127	19,597	4,511	29,239	5	2	5,127	19,595	4,510	
											Total trips:		60,512

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**Publication Commodity Codes Cross Reference List
(sorted by 1990 commodity codes)**

1990 Commodity	1989 Commodity
0200 Vehicles	4115 Transported Vehicles (E.G. Ferried Autos)
.....	4116 Railway Cars (Loaded)
.....	4117 Railway Cars (Empty)
0300 Passengers	4114 Passengers Only
1100 Coal & Lignite	1121 Coal and Lignite
1200 Coke	2920 Coke, Including Petroleum Coke
2100 Crude Petroleum	1311 Crude Petroleum
2211 Gasoline	2911 Gasoline, Including Additives
.....	2912 Jet Fuel
2221 Kerosene	2913 Kerosene
2330 Distillate Fuel Oil	2914 Distillate Fuel Oil
2340 Residual Fuel Oil	2915 Residual Fuel Oil
2350 Lube Oil & Greases	2916 Lubricating Oil and Greases
2410 Petro. Jelly & Waxes	2991 Petroleum and Coal Products, NEC
2429 Naphtha & Solvents	2917 Naphtha, Mineral Spirits, Solvent, NEC
2430 Asphalt, Tar & Pitch	2918 Asphalt, Tar and Pitches
2540 Petroleum Coke	2920 Coke, Including Petroleum Coke
2640 Liquid Natural Gas	2921 Liquefied Petroleum Gases, Coal Gas, Nat Gas/Liquid
2990 Petro. Products NEC	2991 Petroleum and Coal Products, NEC
.....	3113 Coke (coal & petroleum), petroleum pitches and asphalts, and naphtha and solvents
3110 Nitrogenous Fert.	2871 Nitrogenous Chemical Fertilizers, Except Mixtures
3120 Phosphatic Fert.	2873 Phosphatic Chemical Fertilizers, Except Mixtures
3130 Potassic Fert.	2872 Potassic Chemical Fertilizers, Except Mixtures
3190 Fert. & Mixes NEC	1479 Natural Fertilizer Materials, NEC
.....	2879 Fertilizers and Fertilizer Materials, NEC
3211 Acyclic Hydrocarbons	2811 Crude Products from Coal, Tar, Petroleum & Nat Gas
3212 Benzene & Toluene	2817 Benzene and Toluene, Crude and Commercially Pure
3219 Other Hydrocarbons	2811 Crude Products from Coal, Tar, Petroleum & Nat Gas
3220 Alcohols	2813 Alcohols
3230 Carboxylic Acids	2819 Basic Chemicals & Basic Chemical Products, NEC
3240 Nitrogen Func Comp	2819 Basic Chemicals & Basic Chemical Products, NEC
3250 Organo-Inorgan Comp	2819 Basic Chemicals & Basic Chemical Products, NEC
3260 Organic Comp NEC	2819 Basic Chemicals & Basic Chemical Products, NEC
3271 Sulphur (Liquid)	1493 Sulphur, Liquid
3272 Sulphuric Acid	2818 Sulphuric Acid
3273 Ammonia	2819 Basic Chemicals & Basic Chemical Products, NEC
3274 Sodium Hydroxide	2810 Sodium Hydroxide (Caustic Soda)
3275 Inorg. Elem., Oxides, & Halogen Salts	2819 Basic Chemicals & Basic Chemical Products, NEC
3276 Metallic Salts	2819 Basic Chemicals & Basic Chemical Products, NEC
3279 Inorganic Chem. NEC	2819 Basic Chemicals & Basic Chemical Products, NEC
3281 Radioactive Material	2816 Radioactive & Associated Materials, Including Waste
3282 Pigments & Paints	2851 Paints, Varnishes, Lacquers, Enamels & Allied Prods
3283 Coloring Mat. NEC	2812 Dyes, Organic Pigment, Dyeing & Tanning Materials
3284 Medicines	2831 Drugs (Biological Prod, Medicinal Chem, Pharmaceut)
3285 Perfumes & Cleansers	2841 Soap, Detergents & Cleaning Preps, Perfume, Cosmetics
3286 Plastics	2821 Plastics, Cellulose & Resins, Film, Sheeting, Laminate
3291 Pesticides	2876 Insecticides, Fungicides, Pesticides & Disinfectants
3292 Starches, Gluten, Glue	2891 Miscellaneous Chemical Products
3293 Explosives	1911 Ordnance and Accessories
3297 Chemical Additives	2891 Miscellaneous Chemical Products

Publication Commodity Codes Cross Reference List (continued)
(sorted by 1990 commodity codes)

1990 Commodity	1989 Commodity
3298 Wood & Resin Chem.	2861 Gum and Wood Chemicals
3299 Chem. Products NEC	2891 Miscellaneous Chemical Products
4110 Rubber & Gums	0841 Crude Rubber and Allied Gums
4150 Fuel Wood	2413 Fuel Wood, Charcoal and Wastes
4161 Wood Chips	2416 Woodchips, Staves, Molding and Excelsior
4170 Wood in the Rough	2411 Logs
.....	2412 Rafted Logs
.....	2414 Timber, Posts, Poles, Piling & Oth Wood in the Rough
.....	2415 Pulpwood Logs
4189 Lumber	2421 Lumber
4190 Forest Products NEC	0861 Forest Products, Not Elsewhere Classified
4225 Pulp & Waste Paper	2611 Pulp
.....	4024 Paper Waste and Scrap
4310 Building Stone	1412 Building Stone, Unworked
4322 Limestone	1411 Limestone Flux and Calcareous Stone
4323 Gypsum	1494 Gypsum, Crude and Plasters
4327 Phosphate Rock	1471 Phosphate Rock
4331 Sand & Gravel	1442 Sand, Gravel and Crushed Rock
4333 Dredged Material	4029 Waste and Scrap, Not Elsewhere Classified
4335 Waterway Improv. Mat	4118 Waterway Improvement Materials, Govt Materials
4338 Soil & Fill Dirt	1499 Nonmetallic Minerals, Except Fuels, NEC
4410 Iron Ore	1011 Iron Ore and Concentrates
4420 Iron & Steel Scrap	4011 Iron and Steel Scrap
4515 Marine Shells	0931 Marine Shells, Unmanufactured
4630 Copper Ore	1021 Copper Ore and Concentrates
4650 Aluminum Ore	1051 Bauxite and Other Aluminum Ores and Concentrates
4670 Manganese Ore	1061 Manganese Ores and Concentrates
4680 Non-Ferrous Scrap	4012 Nonferrous Metal Scrap
4690 Non-Ferrous Ores NEC	1091 Nonferrous Metal Ores and Concentrates, NEC
4741 Sulphur, (Dry)	1492 Sulphur, Dry
4782 Clay & Refrac. Mat.	1451 Clay, Ceramic and Refractory Materials
4783 Salt	1491 Salt
4860 Slag	3312 Slag
4900 Non-Metal. Min. NEC	1499 Nonmetallic Minerals, Except Fuels, NEC
5110 Newsprint	2621 Standard Newsprint Paper
5120 Paper & Paperboard	2631 Paper and Paperboard
5190 Paper Products NEC	2691 Pulp, Paper and Paperboard Products, NEC
5210 Lime	3271 Lime
5220 Cement & Concrete	3241 Building Cement
5240 Glass & Glass Prod.	3211 Glass and Glass Products
5290 Misc. Mineral Prod.	2951 Asphalt Building Materials
.....	3251 Structural Clay Products, Including Refractories
.....	3281 Cut Stone and Stone Products
.....	3291 Miscellaneous Nonmetallic Mineral Products
5312 Pig Iron	3311 Pig Iron
5315 Ferro Alloys	3318 Ferroalloys
5320 I&S Primary Forms	3314 Iron and Steel Ingots and Other Primary Forms
5330 I&S Plates & Sheets	3316 Iron and Steel Plates and Sheets
5360 I&S Bars & Shapes	3315 Iron and Steel Bars, Rods, Angles, Shapes & Sections
5370 I&S Pipe & Tube	3317 Iron and Steel Pipe and Tube
5390 Primary I&S NEC	3319 Primary Iron & Steel Prods, NEC Incl Rough Castings
5421 Copper	3322 Copper & Copper Alloys, Refined, Unrefined, Unworked

Publication Commodity Codes Cross Reference List (continued)
(sorted by 1990 commodity codes)

<u>1990 Commodity</u>	<u>1989 Commodity</u>
5422 Aluminum	3324 Aluminum and Aluminum Alloys, Unworked
5429 Smelted Prod. NEC	3321 Nonferrous Metals Primary Smelter Prod,Wire Castng
.....	3323 Lead and Zinc Including Alloys, Unworked
5480 Fab. Metal Products	3411 Fabricated Metal Prods, Exc Machinery,Transp Equip
5540 Primary Wood Prod.	2431 Veneer, Plywood and Other Worked Wood
6134 Fish (Not Shellfish)	0911 Fresh Fish, Except Shellfish
.....	0913 Menhaden
6136 Shellfish	0912 Shellfish, Except Prepared or Preserved
6241 Wheat	0107 Wheat
6344 Corn	0103 Corn
6442 Rice	0105 Rice
6443 Barley & Rye	0102 Barley and Rye
6445 Oats	0104 Oats
6447 Sorghum Grains	0106 Sorghum Grains
6521 Peanuts	0119 Oilseeds, Not Elsewhere Classified
6522 Soybeans	0111 Soybeans
6534 Flaxseed	0112 Flaxseed
6590 Oilseeds NEC	0119 Oilseeds, Not Elsewhere Classified
6653 Vegetable Oils	2091 Vegetable Oils, All Grades; Margarine & Shortening
6654 Vegetables & Prod.	0141 Fresh and Frozen Vegetables
.....	2034 Vegetables & Preparations,Canned,Prepared & Presvd
6746 Wheat Flour	2041 Wheat Flour and Semolina
6747 Grain Mill Products	2049 Grain Mill Products, Not Elsewhere Classified
6781 Hay & Fodder	0122 Hay and Fodder
6782 Animal Feed, Prep.	2042 Animal Feeds
6811 Meat, Fresh, Frozen	2011 Meat, Fresh, Chilled, or Frozen
6817 Meat, Prepared	2012 Meat & Meat Products Prepared, Preserved or Canned
6822 Dairy Products	2021 Dairy Products, Except Dried Milk and Cream
.....	2022 Dried Milk and Cream
6835 Fish, Prepared	2031 Fish & Fish Products, Incl Shellfish,Prep & Presvd
6838 Tallow, Animal Oils	2014 Tallow, Animal Fats and Oils
.....	2092 Animal Oils and Fats, Not Elsewhere Classified
6839 Animals & Prod. NEC	0151 Live Animals (Livestock) Excl Zoo Animals,Dogs,Etc
.....	0161 Animals and Animal Products, NEC
.....	2015 Animal By-Products, Not Elsewhere Classified
6856 Bananas & Plantains	0132 Bananas and Plantains
6857 Fruit & Nuts NEC	0131 Fresh Fruit
6858 Fruit Juices	2039 Fruit, Fruit & Vegetable Juices Canned,Prep,Presvd
6861 Sugar	2061 Sugar
6865 Molasses	2062 Molasses
6871 Coffee	0133 Coffee, Green and Roasted (Including Instant)
6872 Cocoa Beans	0134 Cocoa Beans
6885 Alcoholic Beverages	2081 Alcoholic Beverages
6887 Groceries	2094 Groceries
6888 Water & Ice	2095 Ice
.....	4111 Water
6889 Food Products NEC	2099 Miscellaneous Food Products
6891 Tobacco & Products	0121 Tobacco, Leaf
.....	2111 Tobacco Manufactures
6893 Cotton	0101 Cotton, Raw
6894 Natural Fibers NEC	2212 Textile Fibers, Not Elsewhere Classified

Publication Commodity Codes Cross Reference List (continued)
(sorted by 1990 commodity codes)

<u>1990 Commodity</u>	<u>1989 Commodity</u>
6899 Farm Products NEC	0129 Field Crops, Not Elsewhere Classified
.....	0191 Miscellaneous Farm Products
7110 Machinery (Not Elec)	3511 Machinery, Except Electrical
7120 Electrical Machinery	3611 Electrical Machinery, Equipment and Supplies
7210 Vehicles & Parts	3711 Motor Vehicles, Parts and Equipment
7220 Aircraft & Parts	3721 Aircraft and Parts
7230 Ships & Boats	3731 Ships and Boats
7300 Ordnance & Access.	1911 Ordnance and Accessories
7400 Manufac. Wood Prod.	2491 Wood Manufactures, Not Elsewhere Classified
7500 Textile Products	2211 Basic Textile Products, Except Textile Fibers
.....	2311 Apparel & Other Finished Textile Products,Inc Knit
.....	2823 Synthetic (Man-Made) Fiber
.....	4022 Textile Waste, Scrap and Sweepings
7600 Rubber & Plastic Pr.	2822 Synthetic Rubber
.....	3011 Rubber and Miscellaneous Plastic Products
7800 Empty Containers	4119 Empty Containers
7900 Manufac. Prod. NEC	2311 Apparel & Other Finished Textile Products,Inc Knit
7900 Manufac. Prod. NEC	2511 Furniture and Fixtures
.....	2711 Printed Matter
.....	3111 Leather and Leather Products
.....	3791 Miscellaneous Transportation Equipment
.....	3811 Instruments,Photographic/Optical Goods,Watches,Clk
.....	3911 Miscellaneous Products of Manufacturing
8900 Waste and Scrap NEC	4029 Waste and Scrap, Not Elsewhere Classified
9900 Unknown or NEC	4113 LCL Freight
.....	9999 Dept of Defense Controlled Cargo & Special Items

**Publication Commodity Codes Cross Reference List
(sorted by 1989 commodity codes)**

1990 Commodity	1989 Commodity
6893 Cotton	0101 Cotton, Raw
6443 Barley & Rye	0102 Barley and Rye
6344 Corn	0103 Corn
6445 Oats	0104 Oats
6442 Rice	0105 Rice
6447 Sorghum Grains	0106 Sorghum Grains
6241 Wheat	0107 Wheat
6522 Soybeans	0111 Soybeans
6534 Flaxseed	0112 Flaxseed
6521 Peanuts	0119 Oilseeds, Not Elsewhere Classified
6590 Oilseeds NEC	0119
6891 Tobacco & Products	0121 Tobacco, Leaf
6781 Hay & Fodder	0122 Hay and Fodder
6899 Farm Products NEC	0129 Field Crops, Not Elsewhere Classified
6857 Fruit & Nuts NEC	0131 Fresh Fruit
6856 Bananas & Plantains	0132 Bananas and Plantains
6871 Coffee	0133 Coffee, Green and Roasted (Including Instant)
6872 Cocoa Beans	0134 Cocoa Beans
6654 Vegetables & Prod.	0141 Fresh and Frozen Vegetables
6839 Animals & Prod. NEC	0151 Live Animals (Livestock) Excl Zoo Animals,Dogs,Etc
6839 Animals & Prod. NEC	0161 Animals and Animal Products, NEC
6899 Farm Products NEC	0191 Miscellaneous Farm Products
4110 Rubber & Gums	0841 Crude Rubber and Allied Gums
4190 Forest Products NEC	0861 Forest Products, Not Elsewhere Classified
6134 Fish (Not Shellfish)	0911 Fresh Fish, Except Shellfish
6136 Shellfish	0912 Shellfish, Except Prepared or Preserved
6134 Fish (Not Shellfish)	0913 Menhaden
4515 Marine Shells	0931 Marine Shells, Unmanufactured
4410 Iron Ore	1011 Iron Ore and Concentrates
4630 Copper Ore	1021 Copper Ore and Concentrates
4650 Aluminum Ore	1051 Bauxite and Other Aluminum Ores and Concentrates
4670 Manganese Ore	1061 Manganese Ores and Concentrates
4690 Non-Ferrous Ores NEC	1091 Nonferrous Metal Ores and Concentrates, NEC
1100 Coal & Lignite	1121 Coal and Lignite
2100 Crude Petroleum	1311 Crude Petroleum
4322 Limestone	1411 Limestone Flux and Calcareous Stone
4310 Building Stone	1412 Building Stone, Unworked
4331 Sand & Gravel	1442 Sand, Gravel and Crushed Rock
4782 Clay & Refrac. Mat.	1451 Clay, Ceramic and Refractory Materials
4327 Phosphate Rock	1471 Phosphate Rock
3190 Fert and Mixes NEC	1479 Natural Fertilizer Materials, NEC
4783 Salt	1491 Salt
4741 Sulphur, (Dry)	1492 Sulphur, Dry
3271 Sulphur (Liquid)	1493 Sulphur, Liquid
4323 Gypsum	1494 Gypsum, Crude and Plasters
4338 Soil & Fill Dirt	1499 Nonmetallic Minerals, Except Fuels, NEC
4900 Non-Metal. Min. NEC	1499
3293 Explosives	1911 Ordnance and Accessories
7300 Ordnance & Access.	1911
6811 Meat, Fresh, Frozen	2011 Meat, Fresh, Chilled, or Frozen
6817 Meat, Prepared	2012 Meat & Meat Products Prepared, Preserved or Canned
6838 Tallow, Animal Oils	2014 Tallow, Animal Fats and Oils

Publication Commodity Codes Cross Reference List (continued)
(sorted by 1989 commodity codes)

1990 Commodity	1989 Commodity
6839 Animals & Prod. NEC	2015 Animal By-Products, Not Elsewhere Classified
6822 Dairy Products	2021 Dairy Products, Except Dried Milk and Cream
6822 Dairy Products	2022 Dried Milk and Cream
6835 Fish, Prepared	2031 Fish & Fish Products, Incl Shellfish, Prep & Presvd
6654 Vegetables & Prod.	2034 Vegetables & Preparations, Canned, Prepared & Presvd
6858 Fruit Juices	2039 Fruit, Fruit & Vegetable Juices Canned, Prep, Presvd
6746 Wheat Flour	2041 Wheat Flour and Semolina
6782 Animal Feed, Prep.	2042 Animal Feeds
6747 Grain Mill Products	2049 Grain Mill Products, Not Elsewhere Classified
6861 Sugar	2061 Sugar
6865 Molasses	2062 Molasses
6885 Alcoholic Beverages	2081 Alcoholic Beverages
6653 Vegetable Oils	2091 Vegetable Oils, All Grades; Margarine & Shortening
6838 Tallow, Animal Oils	2092 Animal Oils and Fats, Not Elsewhere Classified
6887 Groceries	2094 Groceries
6888 Water & Ice	2095 Ice
6889 Food Products NEC	2099 Miscellaneous Food Products
6891 Tobacco & Products	2111 Tobacco Manufactures
7500 Textile Products	2211 Basic Textile Products, Except Textile Fibers
6894 Natural Fibers NEC	2212 Textile Fibers, Not Elsewhere Classified
7500 Textile Products	2311 Apparel & Other Finished Textile Products, Inc Knit
4170 Wood in the Rough	2411 Logs
4170 Wood in the Rough	2412 Rafted Logs
4150 Fuel Wood	2413 Fuel Wood, Charcoal and Wastes
4170 Wood in the Rough	2414 Timber, Posts, Poles, Piling & Oth Wood in the Rough
4170 Wood in the Rough	2415 Pulpwood Logs
4161 Wood Chips	2416 Woodchips, Staves, Molding and Excelsior
4189 Lumber	2421 Lumber
5540 Primary Wood Prod.	2431 Veneer, Plywood and Other Worked Wood
7400 Manufac. Wood Prod.	2491 Wood Manufactures, Not Elsewhere Classified
7900 Manufac. Prod. NEC	2511 Furniture and Fixtures
4225 Pulp & Waste Paper	2611 Pulp
5110 Newsprint	2621 Standard Newsprint Paper
5120 Paper & Paperboard	2631 Paper and Paperboard
5190 Paper Products NEC	2691 Pulp, Paper and Paperboard Products, NEC
7900 Manufac. Prod. NEC	2711 Printed Matter
3274 Sodium Hydroxide	2810 Sodium Hydroxide (Caustic Soda)
3211 Acyclic Hydrocarbons	2811 Crude Products from Coal, Tar, Petroleum & Nat Gas
3219 Other Hydrocarbons	2811
3283 Coloring Mat. NEC	2812 Dyes, Organic Pigment, Dyeing & Tanning Materials
3220 Alcohols	2813 Alcohols
3281 Radioactive Material	2816 Radioactive & Associated Materials, Including Waste
3212 Benzene & Toluene	2817 Benzene and Toluene, Crude and Commercially Pure
3272 Sulphuric Acid	2818 Sulphuric Acid
3230 Carboxylic Acids	2819 Basic Chemicals & Basic Chemical Products, NEC
3240 Nitrogen Func. Comp.	2819
3250 Organo-Inorgan Comp	2819
3260 Organic Comp. NEC	2819
3273 Ammonia	2819
3275 Inorg Elem, Oxides, & Halogen Salts	2819
3276 Metallic Salts	2819
3279 Inorganic Chem. NEC	2819
3286 Plastics	2821 Plastics, Cellulose & Resins, Film, Sheeting, Laminate
7600 Rubber & Plastic Products	2822 Synthetic Rubber

Publication Commodity Codes Cross Reference List (continued)
(sorted by 1989 commodity codes)

1990 Commodity	1989 Commodity
7500 Textile Products	2823 Synthetic (Man-Made) Fiber
3284 Medicines	2831 Drugs (Biological Prod, Medicinal Chem, Pharmaceut)
3285 Perfumes & Cleansers	2841 Soap, Detergents & Cleaning Preps, Perfume, Cosmetics
3282 Pigments & Paints	2851 Paints, Varnishes, Lacquers, Enamels & Allied Prod
3298 Wood & Resin Chem.	2861 Gum and Wood Chemicals
3110 Nitrogenous Fert.	2871 Nitrogenous Chemical Fertilizers, Except Mixtures
3130 Potassic Fert.	2872 Potassic Chemical Fertilizers, Except Mixtures
3120 Phosphatic Fert.	2873 Phosphatic Chemical Fertilizers, Except Mixtures
3291 Pesticides	2876 Insecticides, Fungicides, Pesticides & Disinfectants
3190 Fert. & Mixes NEC	2879 Fertilizers and Fertilizer Materials, NEC
3292 Starches, Gluten, Glue	2891 Miscellaneous Chemical Products
3297 Chemical Additives	2891
3299 Chem. Products NEC	2891
2211 Gasoline	2911 Gasoline, Including Additives
2211 Gasoline	2912 Jet Fuel
2221 Kerosene	2913 Kerosene
2330 Distillate Fuel Oil	2914 Distillate Fuel Oil
2340 Residual Fuel Oil	2915 Residual Fuel Oil
2350 Lube Oil & Greases	2916 Lubricating Oil and Greases
2429 Naphtha & Solvents	2917 Naphtha, Mineral Spirits, Solvent, NEC
2430 Asphalt, Tar & Pitch	2918 Asphalt, Tar and Pitches
1200 Coke	2920 Coke, Including Petroleum Coke
2540 Petroleum Coke	2920
2640 Liquid Natural Gas	2921 Liquefied Petroleum Gases, Coal Gas, Nat Gas/Liquid
5290 Misc. Mineral Prod.	2951 Asphalt Building Materials
2410 Petro. Jelly & Waxes	2991 Petroleum and Coal Products, NEC
2990 Petro. Products NEC	2991 Petroleum and Coal Products, NEC
7600 Rubber & Plastic Pr.	3011 Rubber and Miscellaneous Plastic Products
7900 Manufac. Prod. NEC	3111 Leather and Leather Products
5240 Glass & Glass Prod.	3211 Glass and Glass Products
5220 Cement & Concrete	3241 Building Cement
5290 Misc. Mineral Prod.	3251 Structural Clay Products, Including Refractories
5210 Lime	3271 Lime
5290 Misc. Mineral Prod.	3281 Cut Stone and Stone Products
5290 Misc. Mineral Prod.	3291 Miscellaneous Nonmetallic Mineral Products
5312 Pig Iron	3311 Pig Iron
4860 Slag	3312 Slag
2990 Petro. Products NEC	3313 Coke (coal & petroleum), petroleum pitches and asphalts, and naphtha and solvents
5320 I&S Primary Forms	3314 Iron and Steel Ingots and Other Primary Forms
5360 I&S Bars & Shapes	3315 Iron and Steel Bars, Rods, Angles, Shapes & Sections
5330 I&S Plates & Sheets	3316 Iron and Steel Plates and Sheets
5370 I&S Pipe & Tube	3317 Iron and Steel Pipe and Tube
5315 Ferro Alloys	3318 Ferroalloys
5390 Primary I&S NEC	3319 Primary Iron & Steel Prods, NEC Incl Rough Castings
5429 Smelted Prod. NEC	3321 Nonferrous Metals Primary Smelter Prod, Wire Castng
5421 Copper	3322 Copper & Copper Alloys, Refined, Unrefined, Unworked
5429 Smelted Prod. NEC	3323 Lead and Zinc Including Alloys, Unworked
5422 Aluminum	3324 Aluminum and Aluminum Alloys, Unworked
5480 Fab. Metal Products	3411 Fabricated Metal Prods, Exc Machinery, Transp Equip
7110 Machinery (Not Elec)	3511 Machinery, Except Electrical
7120 Electrical Machinery	3611 Electrical Machinery, Equipment and Supplies
7210 Vehicles & Parts	3711 Motor Vehicles, Parts and Equipment
7220 Aircraft & Parts	3721 Aircraft and Parts

Publication Commodity Codes Cross Reference List (continued)
(sorted by 1989 commodity codes)

1990 Commodity	1989 Commodity
7230 Ships & Boats	3731 Ships and Boats
7900 Manufac. Prod. NEC	3791 Miscellaneous Transportation Equipment
7900 Manufac. Prod. NEC	3811 Instruments, Photographic/Optical Goods, Watches, Clk
7900 Manufac. Prod. NEC	3911 Miscellaneous Products of Manufacturing
4420 Iron & Steel Scrap	4011 Iron and Steel Scrap
4680 Non-Ferrous Scrap	4012 Nonferrous Metal Scrap
7500 Textile Products	4022 Textile Waste, Scrap and Sweepings
4225 Pulp & Waste Paper	4024 Paper Waste and Scrap
4333 Dredged Material	4029 Waste and Scrap, Not Elsewhere Classified
8900 Waste and Scrap NEC	4029
6888 Water & Ice	4111 Water
9900 Unknown or NEC	4112 Misc Shipments not Identifiable by Commodity
9900 Unknown or NEC	4113 LCL Freight
0300 Passengers	4114 Passengers Only
0200 Vehicles	4115 Transported Vehicles (E.G. Ferried Autos)
0200 Vehicles	4116 Railway Cars (Loaded)
0200 Vehicles	4117 Railway Cars (Empty)
4335 Waterway Improv. Mat	4118 Waterway Improvement Materials, Govt Materials
7800 Empty Containers	4119 Empty Containers
9900 Unknown or NEC	9999 Dept of Defense Controlled Cargo & Special Items

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