

ILLINOIS WATERBORNE SHIPPING DATABASE



**Illinois Department
of Transportation
Division of Water Resources**

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ILLINOIS WATERBORNE SHIPPING DATABASE



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Prepared By
Illinois Department of Transportation
Division of Water Resources
Ports Management Section

July, 1987

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PREFACE

The Illinois Waterborne Shipping Database has been prepared by the Ports Management Section of the Illinois Department of Transportation in keeping with a designated responsibility to "undertake port and waterway development planning and studies of port and waterway development problems."

The Database report presents historic tonnage data since 1970 on waterborne shipments for U.S. tidewater ports, for the Great Lakes/St. Lawrence Seaway system, for the U.S. inland waterway system and for ports and inland waterways in the State of Illinois.

The purpose of this Database is to provide shippers, steamship companies, barge lines, terminals, port districts, industrial developers and other shipping interests with comprehensive statistical data on past trends in waterborne shipments. This type of information can be critical to corporate and public decision-makers in the determination of shipping alternatives, vessel operations, port investments, plant locations and overall infrastructure improvements. In addition, the volume of waterborne shipments to and from the State of Illinois demonstrates the vital role of the commercial navigation system to the economy of the state.

There is no charge for copies of the Database report. To receive a copy by mail, call:

Norman B. Wolf, Section Chief at (312) 793-5744, or
James A. Johnson, Deputy Chief at (312) 793-3127.

The Database report is also available, at no charge, in soft copy for operating on either an IBM-compatible computer or Wang word processor. Mail either an MS-DOS 5-1/4 inch floppy disk or an 8 inch Wang floppy disk to the following address:

Ports Management Section
Illinois Department of Transportation
310 S. Michigan Avenue, Suite 1606
Chicago, IL 60604

Readers of this report are invited to contact us with questions about the tables or the sources of the shipping data and to provide suggestions on other types of shipping data that would be of value to users of the report. The Database report will be updated periodically to reflect the availability of more recent shipping statistics and to address the specific needs of users of the report.

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DEFINITIONS OF TERMS

Barge Loadings	The tons of cargoes loaded into barges.
Barge Receipts	The tons of cargoes unloaded from barges.
Barge Shipments	The sum total of the tons of cargoes loaded into and unloaded from barges.
Canadian Shipment	A shipment of cargo between a U.S. Great Lakes port and a Canadian Great Lakes port.
Coastwise Shipment	A domestic shipment of cargo between U.S. coastal ports, between Alaska and Hawaii and the U.S. mainland or between U.S. coastal ports and U.S. Great Lakes ports.
Commodity	One of 158 four-digit commodities included in the Commodity Classification For Domestic Waterborne Commerce.
Commodity Group	One of 30 two-digit commodity groups included in the Commodity Classification For Domestic Waterborne Commerce.
Container	A sealed metal box, varying in size from 20 feet to 48 feet long, 8 feet to 9.5 feet high and 8 feet wide, used primarily for the overseas shipment of cargoes.
Domestic Shipment	A shipment of cargo from a U.S. port to another U.S. port.
Draft	The distance from the water level to the lowest point of the vessel under the water, measured when the vessel is completely stopped.
Export Shipment	A shipment of cargo from the U.S. to a foreign country.
Foreign Shipment	A shipment of cargo between the U.S. and another country.
Import Shipment	A shipment of cargo to the U.S. from a foreign country.
Inland Waterways Shipment	A domestic barge shipment of cargo on the inland waterways system.
Intracoastal Waterway Shipment	A domestic barge shipment on the Gulf Intracoastal Waterway.

Lakewise Shipment	A domestic shipment of cargo between U.S. Great Lakes ports.
Lock	A structure in a waterway with gates at each end, used in raising and lowering vessels from one water level to another. Locks are constructed, in most cases, with a dam that holds back the water to create a navigable waterway.
NEC	Not elsewhere classified.
PL 480, Title II	Cargoes of bagged processed foods shipped to needy countries for famine relief under the provisions of Title II of the Agricultural Trade Development and Assistance Act of 1954, Public Law 480; also known as "Food for Peace" cargoes.
Port of Chicago	A geographic area designated by the U.S. Army Corps of Engineers for the purpose of reporting statistical data on waterborne shipments. Waterways in the Port of Chicago include the Calumet River, Lake Calumet Harbor, Chicago River (Main, North and South Branches), Chicago Sanitary and Ship Canal, and Calumet-Sag Channel. The area encompassed by the Port includes all commercially navigable waterways in the City of Chicago and in several suburban communities along the Chicago Sanitary and Ship Canal, Calumet River and Calumet-Sag Channel.
Port Range	A segment of the inland waterway system in the State of Illinois. For disaggregating barge tonnage data, a total of 10 port ranges are used in this report, including 5 port ranges on the Illinois Waterway, 3 on the Mississippi River and 2 on the Ohio River.
TEU	A twenty-foot equivalent unit. All 20-foot and 40-foot long containers (and others of varying length) are converted to 20-foot units as a common measure of container traffic.
Ton	A short ton of 2,000 pounds.
WCSC	Waterborne Commerce Statistics Center of the U.S. Army Corps of Engineers, which publishes the annual <u>Waterborne Commerce of the United States</u> reports.

THE NAVIGATION SYSTEM SERVING ILLINOIS

The State of Illinois has 1,118 miles of commercially navigable waterways, and the state borders on 60 miles of navigable Lake Michigan waters, providing access to the Atlantic Ocean via the Great Lakes/St. Lawrence Seaway System. The following table indicates the miles of each commercially navigable waterway in Illinois.

<u>WATERWAY</u>	<u>MILES</u>
Mississippi.....	581
Kaskaskia.....	36
Ohio.....	134
Illinois Waterway	
Calumet River.....	7
Lake Calumet Harbor.....	1
Little Calumet River.....	6
Cal-Sag Channel.....	107
Chicago River.....	13
Chicago Sanitary and Ship Canal.....	31
Des Plaines River.....	18
Illinois River.....	273
Total Illinois Waterway.....	366
Waukegan Harbor.....	1
State Total.....	1,118

Waterborne shipments to and from Illinois are handled by ocean-going ships, lake boats and barges. The following table indicates the types of vessels and their primary types of shipments, the waterways in Illinois that handle the vessels and the waterway drafts.

<u>Vessel Types</u>	<u>Primary Types of Shipments</u>	<u>Waterways</u>	<u>Maximum Vessel Operating Draft</u>
Ocean-going ships	Overseas shipments via St. Lawrence Seaway	Calumet River and Lake Calumet Harbor	26'9"
Lake boats	Great Lakes shipments	Calumet River and Lake Calumet Harbor Waukegan Harbor	26'9"
Barges and towboats	Inland waterway shipments	Illinois Waterway Mississippi River Ohio River Kaskaskia River	18' 9'

Following is a description of the Great Lakes/St. Lawrence Seaway system and of the portion of the inland waterway system that serves the State of Illinois.

1. Great Lakes/St. Lawrence Seaway System

The Great Lakes/St. Lawrence Seaway System extends a distance of 2,250 miles from the Atlantic Ocean to Chicago and 2,342 miles to Duluth, Minnesota. The System is comprised of 1,000 miles of tidewater from the Atlantic Ocean to Montreal on the St. Lawrence River, 190 miles of the locked section of the St. Lawrence River from Montreal to Lake Ontario, 160 miles across Lake Ontario, 26 miles of the locked Welland Canal between Lakes Ontario and Erie, and 874 miles of Great Lakes and connecting channels to Chicago and 966 miles to Duluth.

a. St. Lawrence Seaway

The St. Lawrence Seaway is comprised of two sections: the Montreal-Lake Ontario (MOLO) Section and Welland Canal Section. There are seven locks on the MOLO which raise and lower vessels a total of 226 feet between the St. Lawrence River and Lake Ontario. The Welland Canal, located entirely in Canada, raises and lowers vessels a total of 327 feet within its 26-mile length. There are 8 lock locations on the Welland, five of which have single locks and three sites have two locks, for a total of 11 locks. Figure 1 indicates the system, lock locations and water levels.

The Seaway locks raise and lower vessels a total of 553 feet between the St. Lawrence River and Lake Erie. The locks limit the size of vessels which operate on the system to a maximum length of 730 feet, width of 76 feet and draft of 27 feet. Due to weather conditions, the Seaway closes during the winter season from about December 15 to April 1.

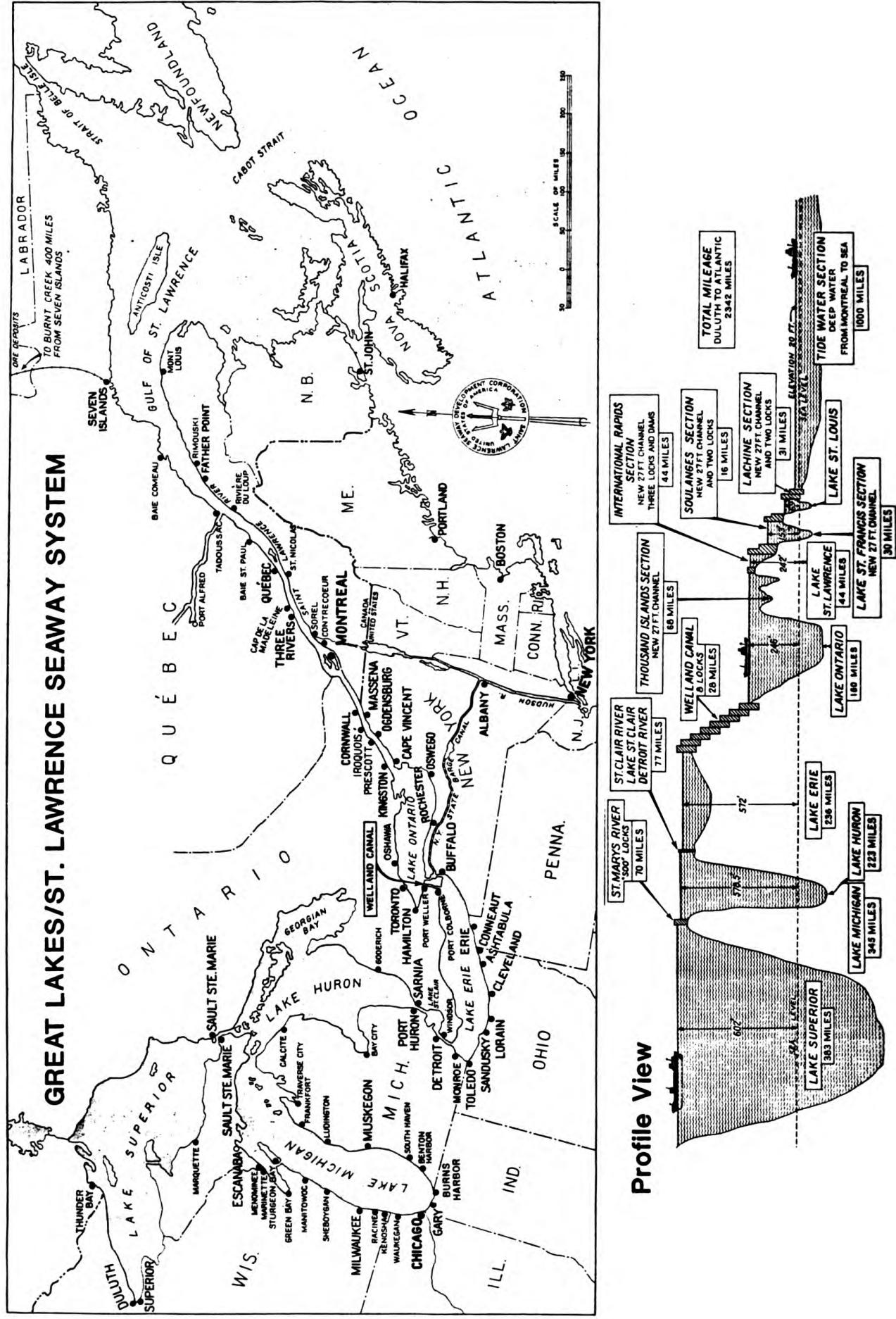
b. Soo Locks

A set of five parallel locks are located at Sault Ste. Marie, Michigan on the St. Marys River which connects Lake Superior to Lakes Huron and Michigan. These locks, commonly known as the Soo Locks, raise and lower vessels by about 21 feet.

Four of the five Soo locks are located in the U.S. and are used by commercial vessels, and one Canadian lock is used mainly by recreation boats. The largest of the U.S. locks, the Poe Lock, measures 1,200'x110' and can handle the largest bulk carrying lake boats. The other three U.S. locks, which handle smaller lake boats and ocean-going vessels, are the Davis and Sabin, each measuring 1,350'x80' and the McArthur which measures 800'x80'.

The Davis and Sabin Locks, which were opened in 1914 and 1919, respectively, are in need of extensive rehabilitation. The Water Resources Development Act of 1986 (P.L. 99-662) authorized the replacement of these two locks by a single new Poe-sized lock.

FIGURE 1



2. Inland Waterways in Illinois

Figure 2 identifies the navigable inland waterways in Illinois and Figure 3 identifies the navigable waterways in the Chicago area. Following is a discussion of the main features of each of the waterways that serve the state.

a. Mississippi River

The Mississippi River forms the western border of the State of Illinois, a distance of 581 river miles from the Wisconsin State Line south to the confluence with the Ohio River. The Mississippi falls by 420 feet from Minneapolis to St. Louis, a distance of 675 miles, and locks and dams have been constructed at 30 locations to create a navigable nine-foot channel for barge operations. Bordering the State of Illinois, the Mississippi falls by about 205 feet, and there are 15 locks locations from the Wisconsin State Line to St. Louis. From St. Louis, the Mississippi River is lock-free to New Orleans.

North of Alton to the Wisconsin State Line, the Mississippi River has 13 locks and dams, each having a single 600'x110' lock. In addition, Locks and Dam 15 in the Quad Cities has a 360'x110' lock which is used primarily by recreation boats.

A new Locks and Dam 26, which is being constructed south of Alton, will have a single 1,200'x110' lock when completed in 1989, and a second lock measuring 600'x110' has been authorized in the Water Resources Development Act of 1986 (PL 99-662). Locks and Dam 27, near St. Louis, has two locks, 1,200'x110' and 600'x110'. Upon completion of the new 1,200' lock at Locks and Dam 26, there will be 17 locks bordering Illinois on the Mississippi River.

b. Kaskaskia River

The Kaskaskia River extends a distance of 36 miles from the Mississippi River in southwestern Illinois through Randolph, St. Clair and Monroe counties to Fayetteville. There is a single 380'x64' lock on the Kaskaskia, less than one mile from the Mississippi.

c. Ohio River

The Ohio River forms the southern border of the state, a distance of 134 river miles from the Indiana State Line west to the Mississippi River. The Ohio River falls by 430 feet from Pittsburgh to the Mississippi, a distance of 981 miles. Locks and dams have been constructed at 20 locations to create a navigable nine-foot channel for barge operations. Bordering the State of Illinois, the Ohio falls by 34 feet, and there are

locks at three locations. Two of these locks have one 1,200'x110' lock and one 600'x110' lock, and one has two 1,200'x110' locks, for a total of six locks on the Ohio River bordering Illinois.

d. Illinois Waterway

The Illinois Waterway traverses the state from Lake Michigan west to DePue and then southwest to the confluence with the Mississippi River at Grafton. Over the 366 river miles that comprise the Illinois Waterway, there are nine locks and a drop of about 161 feet.

In Chicago, the inland river system begins at two points, one in downtown Chicago at the Chicago River and one on the far south side of Chicago at the Calumet River. From downtown Chicago, the Chicago River flows six miles southwest to Damen Avenue, and then the Chicago Sanitary and Ship Canal flows southwest for 31 miles to the Lockport Lock, where the Des Plaines River begins. On the south side of Chicago, the combined Calumet River/Little Calumet River/Calumet-Sag Channel flow south and then west a distance of 30 miles from Lake Michigan to the point where it flows into the Chicago Sanitary and Ship Canal northeast of Lemont.

The Des Plaines River flows in the southwest direction for 18 river miles to the confluence with the non-commercially navigable Kankakee River, southwest of Channahon. The Illinois River begins at this point and flows 273 miles to its confluence with the Mississippi.

There are nine lock locations on the Illinois Waterway, all of which have single locks. The Chicago Controlling Lock, on the Chicago River at Lake Michigan, measures 600'x80', the T.J. O'Brien Lock on the Calumet River measures 1,000'x110', and the five locks on the Illinois River and two locks on the Des Plaines River measure 600'x110'.

NAVIGABLE WATERWAYS IN ILLINOIS

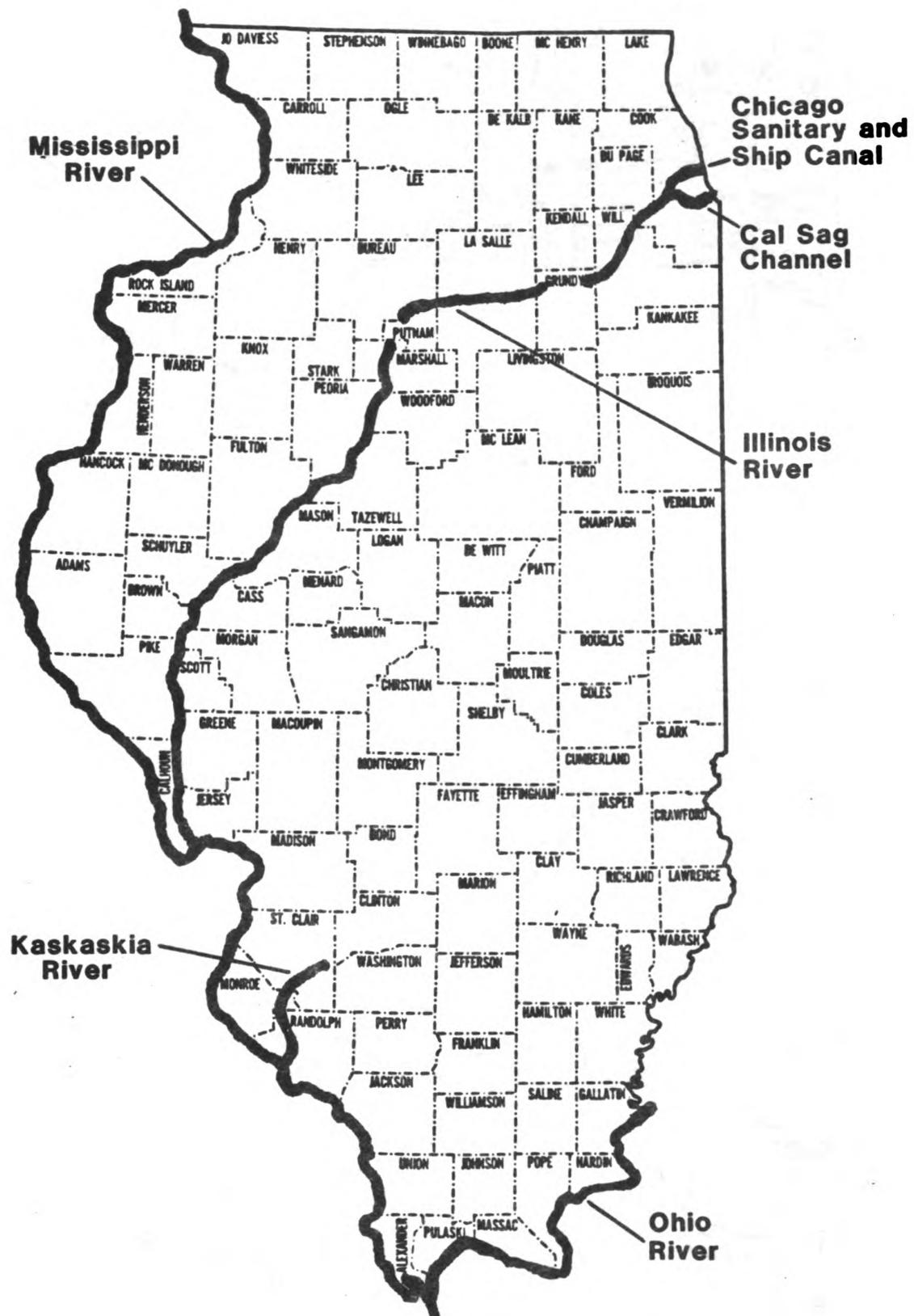


FIGURE 2

NAVIGABLE WATERWAYS IN THE CHICAGO AREA



FIGURE 3

SOURCES OF DATA ON WATERBORNE SHIPMENTS

Three sources of data were used to prepare most of the tables in this Database. These data sources included the annual Waterborne Commerce of the United States reports by the U.S. Army Corps of Engineers, dock-to-dock computer tapes maintained by the Corps of Engineers, and the annual Containerized Cargo Statistics report by the Maritime Administration.

1. Waterborne Commerce of the United States

The Waterborne Commerce of the United States is an annual series of five reports, prepared by the U.S. Army Corps of Engineers, which present statistics on shipments of foreign and domestic cargoes. The five reports, which present statistics by geographic region, include:

Part 1 - Waterways and Harbors on the Atlantic Coast

Part 2 - Waterways and Harbors on the Gulf Coast and Mississippi River System

Part 3 - Waterways and Harbors on the Great Lakes

Part 4 - Waterways and Harbors on the Pacific Coast, Alaska and Hawaii

Part 5 - National Summaries.

A uniform system of codes, known as the "Commodity Classification for Domestic Waterborne Commerce", is used to aggregate water shipments for statistical purposes. Under the Commodity Classification, cargoes are classified according to 30 two-digit commodity group code numbers. Within each group, primary commodity types are listed by four-digit code numbers. The Commodity Classification numbering system is shown on the next two pages.

The value of the Waterborne Commerce reports as an analytic tool for use by non-federal government agencies, ports and the shipping industry in conducting port and waterway studies is limited by a lack of timeliness. This is the result of a two-year lag between the current year and the year the shipping data is made available by the Corps of Engineers. As an example, as of the date of publication of this Database report, 1984 was the most recent year for which the Waterborne Commerce reports were available.

Commodity Classification For Waterborne Commerce

Code # Item Name

<u>Group 01-Farm Products</u>	
0101	Cotton, raw
0102	Barley and rye
0103	Corn
0104	Oats
0105	Rice
0106	Sorghum Grains
0107	Wheat
0111	Soybeans
0112	Flaxseed
0119	Oilseeds, not elsewhere classified
0121	Tobacco, leaf
0122	Hay and Fodder
0129	Field crops, not elsewhere classified
0131	Fresh fruits
0132	Bananas and plantains
0133	Coffee, green and roasted (including instant)
0134	Cacao beans
0141	Fresh and frozen vegetables
0151	Live animals (livestock) except zoo animals, cats, dogs, etc.
0161	Animals and animal products, not elsewhere classified
0191	Miscellaneous farm products
<u>Group 08-Forest Products</u>	
0841	Crude rubber and allied gums
0861	Forest products, not elsewhere classified
<u>Group 09-Fresh Fish and Other Marine Products</u>	
0911	Fresh fish, except shellfish
0912	Shellfish, except prepared or preserved
0913	Menhaden
0931	Marine shells, unmanufactured
<u>Group 10-Metallic Ores</u>	
1011	Iron ore and concentrates
1021	Copper ore and concentrates
1051	Bauxite and other aluminum ores and concentrates
1061	Manganese ores and concentrates
1091	Nonferrous metal ores and concentrates, not elsewhere classified
<u>Group 11-Coal</u>	
1121	Coal and lignite
<u>Group 13-Crude Petroleum</u>	
1311	Crude petroleum
<u>Group 14-Nonmetallic Minerals, Except Fuels</u>	
1411	Limestone flux and calcareous stone
1412	Building stone, unworked
1442	Sand, gravel and crushed rock
1451	Clay, ceramic and refractory materials
1471	Phosphate rock
1479	Natural fertilizer materials, not elsewhere classified
1491	Salt
1492	Sulphur, dry
1493	Sulphur, liquid
1494	Gypsum, crude and plasters
1499	Nonmetallic minerals, except fuels, not elsewhere classified

Code # Item Name

<u>Group 19-Ordnance and Accessories</u>	
1911	Ordnance and accessories
<u>Group 20-Food and Kindred Products</u>	
2011	Meat, fresh, chilled, or frozen
2012	Meat and meat products prepared or preserved, including canned meat products
2014	Tallow, animal fats and oils
2015	Animal by-products, not elsewhere classified
2021	Dairy products, except dried milk and cream
2022	Dried milk and cream
2031	Fish and fish products, including shellfish, prepared or preserved
2034	Vegetables and preparations, canned and otherwise prepared and preserved
2039	Fruits, and fruit and vegetable juices, canned and otherwise prepared or preserved
2041	Wheat flour and semolina
2042	Animal feeds
2049	Grain mill products, not elsewhere classified
2061	Sugar
2062	Molasses
2081	Alcoholic beverages
2091	Vegetable oils, all grades; margarine and shortening
2092	Animal oils and fats, not elsewhere classified, including marine
2094	Groceries
2099	Miscellaneous food products
<u>Group 21-Tobacco Products</u>	
2111	Tobacco manufactures
<u>Group 22-Basic Textiles</u>	
2211	Basic textile products, except textile fibers
2212	Textile fibers not elsewhere classified
<u>Group 23-Apparel and Other Finished Textile Products Including Knit</u>	
2311	Apparel and other finished textile products, including knit
<u>Group 24-Lumber and Wood Products Except Furniture</u>	
2411	Logs
2412	Rafted logs
2413	Fuel wood, charcoal, and wastes
2414	Timber, posts, poles, piling, and other wood in the rough
2415	Pulpwood, log
2416	Wood chips, staves, moldings, and excelsior
2421	Lumber
2431	Veneer, plywood, and other worked wood
2491	Wood manufactures, not elsewhere classified
<u>Group 25-Furniture and Fixtures</u>	
2511	Furniture and fixtures
<u>Group 26-Pulp, Paper and Allied Products</u>	
2611	Pulp
2621	Standard newsprint paper
2631	Paper and paperboard
2691	Pulp, paper and paperboard products, not elsewhere classified
<u>Group 27-Printed Matter</u>	
2711	Printed matter

Code #	Item Name	Code #	Item Name		
Group 28-Chemicals and Allied Products			Group 33-Primary Metal Products		
2810	Sodium hydroxide (caustic soda)	3311	Pig iron		
2811	Crude products from coal tar, petroleum, and natural gas, except benzene and toluene	3312	Slag		
2812	Dyes, organic pigment, dyeing and tanning materials	3313	Coke (coal and petroleum), petroleum pitches and asphalts, and naphtha and solvents		
2813	Alcohols	3314	Iron and steel ingots, and other primary forms, including blanks for tube and pipe, and sponge		
2816	Radioactive and associated materials, including waste	3315	Iron and steel bars, rods, angles, shapes and sections, including sheet piling		
2817	Benzene and toluene, crude and commercially pure	3316	Iron and steel plates and sheets		
2818	Sulphuric acid	3317	Iron and steel pipe and tube		
2819	Basic chemicals and basic chemical products, not elsewhere classified	3318	Ferroalloys		
2821	Plastic materials, regenerated cellulose and synthetic resins, including film, sheeting and laminates	3319	Primary iron and steel products, not elsewhere classified including castings in the rough		
2822	Synthetic rubber	3321	Nonferrous metals primary smelter products, basic shapes, wire castings and forgings, except copper, lead, zinc and aluminum		
2823	Synthetic (man-made) fiber	3322	Copper and copper alloys, whether or not refined, unworked		
2831	Drugs (biological products, medicinal chemicals, botanical products and pharmaceutical preparations)	3323	Lead and zinc including alloys, unworked		
2841	Soap, detergents, and cleaning preparations; perfumes, cosmetics, and other toilet preparations	3324	Aluminum and aluminum alloys, unworked		
2851	Paints, varnishes, lacquers, enamels, and allied products	Group 34-Fabricated Metal Products, Except Ordnance, Machinery and Transportation Equipment			
2861	Gum and wood chemicals	3411	Fabricated metal products, except ordnance, machinery, and transportation equipment.		
2871	Nitrogenous chemical fertilizers, except mixtures	Group 35-Machinery, Except Electrical			
2872	Potassic chemical fertilizers, except mixtures	3511	Machinery, except electrical		
2873	Phosphatic chemical fertilizers, except mixtures	Group 36-Electrical Machinery, Equipment and Supplies			
2876	Insecticides, fungicides, pesticides, and disinfectants	3611	Electrical machinery equipment and supplies		
2879	Fertilizers and fertilizer materials, not elsewhere classified	Group 37-Transportation Equipment			
2891	Miscellaneous chemical products	3711	Motor vehicles, parts and equipment		
Group 29-Petroleum and Coal Products			3721	Aircraft and parts	
2911	Gasoline, including additives	3731	Ships and boats		
2912	Jet fuel	3791	Miscellaneous transportation equipment		
2913	Kerosene	Group 38-Instruments, Photographic and Optical Goods, Watches and Clocks			
2914	Distillate fuel oil	3811	Instruments, photographic and optical goods, watches and clocks		
2915	Residual fuel oil	Group 39-Miscellaneous Products of Manufacturing			
2916	Lubricating oils and greases	3911	Miscellaneous products of manufacturing		
2917	Naphtha, mineral spirits, solvents, not elsewhere classified	Group 40-Waste and Scrap Materials			
2918	Asphalt, tar, and pitches	4011	Iron and steel scrap		
2920	Coke, including petroleum coke	4012	Nonferrous metal scrap		
2921	Liquefied petroleum gases, coal gases, natural gas, and natural gas liquids	4022	Textile waste, scrap, and sweepings		
2951	Asphalt building materials	4024	Paper waste and scrap		
2991	Petroleum and coal products, not elsewhere classified	4029	Waste and scrap, not elsewhere classified		
Group 30-Rubber and Miscellaneous Plastics Products			Group 41-Special Items		
3011	Rubber and miscellaneous plastic products	4111	Water		
Group 31-Leather and Leather Products		4112	Miscellaneous shipments not identifiable by commodity		
3111	Leather and leather products	4113	LCL freight		
Group 32-Stone, Clay, Glass and Concrete Products		4118	Materials used in waterway improvement, Government materials		
3211	Glass and glass products	4119	Empty containers		
3241	Building cement	9999-	Department of Defense controlled cargo and special category items		
3251	Structural clay products, including refractories				
3271	Lime				
3281	Cut stone and stone products				
3291	Miscellaneous nonmetallic mineral products				

* Cargoes exported on Department of Defense controlled vessels (other than goods for the use of U.S. Armed Forces abroad) and non-Department of Defense shipments of military component items (abbreviated SCI) for which commodity detail is not furnished to the Corps of Engineers.

2. Dock-to-Dock Computer Tapes on Inland Waterway Shipments

In the preparation of the annual Waterborne Commerce of the United States reports, the Corps of Engineers aggregates shipments to and from all individual docks in U.S. ports and on inland and intracoastal waterways. On the inland waterway system, each dock is numerically coded by the Corps using a numerical code that indicates the river, river mile and descending bank on which the dock is located. The cargoes shipped to or from each dock are specified using the four-digit commodity codes from the Commodity Classification for Domestic Waterborne Commerce.

Although the Corps records all waterway shipments on this dock-to-dock basis, the data for barge shipments on the inland waterway system, as presented in the annual Waterborne Commerce of the United States reports, is aggregated for long segments of each waterway. A major limitation of this format, for inland waterways such as the Mississippi and Ohio Rivers that form the borders of two or more states, is the failure to indicate the tonnage of cargo loaded to or unloaded from barges in river segments that are within the borders of a state.

As an example of this limitation of the Corps' reports, tons shipped by barge are indicated for the entire Ohio River extending from Pittsburgh to the confluence with the Mississippi River, a distance of 981 miles. Six states including Illinois border the Ohio River; however, there is no indication in the Corps' report of either the total inbound and outbound barge tonnage for each state or the tonnage by the major commodity groups shipped to and from each state.

The lack of state-specific barge tonnage data makes effective statewide planning for port facilities more difficult, and prevents individual states from easily obtaining the types of data needed to respond effectively to policy issues affecting the waterway system. From an investment viewpoint, the lack of information on waterborne shipments also increases the uncertainty of port investment decisions made by states, port authorities and the private sector.

To resolve the problem, IDOT contracted with Data Resources, Inc. (DRI), a national macro-economic consulting firm, to develop a state-specific database on inland waterway barge shipments. DRI had worked on a number of national waterway and shipping studies and had access to the Corps of Engineers dock-to-dock data tapes. The tables in this Database report on barge shipments to and from inland rivers in Illinois and to and from 10 port ranges in the state were generated by DRI from barge shipping data on the Corps' dock-to-dock tapes.

3. Containerized Cargo Statistics

The report Containerized Cargo Statistics is published annually by the Office of Trade Studies and Subsidy Contracts of the Maritime Administration, U.S. Department of Transportation. Statistics are

provided on historic container shipments and include the number of loaded and empty containers, inbound and outbound containers, percent of containers by flag (country of registry) of vessels, top 40 foreign ports handling U.S. container cargo and numbers of containers on essential U.S. trade routes.

The statistics on container shipments are reported to the Maritime Administration by a designated agent in the U.S. or by the operator of any vessel of 1,000 or more gross registered tons carrying 25 or more twenty-foot equivalent units (TEUs). In addition to reports filed for all commercial vessels, the statistics are collected for all merchant vessels operated by or for the Department of Defense, except for vessels of the Military Sealift Command.

4. Other Data Sources

Data for several tables on Port of Chicago shipments was furnished by the Illinois International (Chicago) Port District, Illinois Department of Commerce and Community Affairs and the Great Lakes Commission. Besides Corps of Engineers tonnage data, an annual report on shipments of both U.S. and Canadian cargoes through the St. Lawrence Seaway is prepared by the Saint Lawrence Seaway Development Corporation. This agency's report uses a different commodity classification system than the Corps of Engineers, so the Corps data on Great Lakes overseas shipments was used in this Database report to maintain consistency among the tables.

ORGANIZATION OF THE TABLES

The ordering of the tables in this Database report is structured to provide a useful progression of overseas and domestic shipping data from the national level to the state level. This involves the following grouping of the tables:

- Tables 1-9 U.S. foreign waterborne shipments
- Tables 10-17 U.S. domestic waterborne shipments
- Tables 18-25 Great Lakes overseas and domestic shipments
- Table 26 State of Illinois foreign and domestic shipments to/from the Port of Chicago, Waukegan Harbor and inland waterways
- Tables 27-37 Port of Chicago shipments
- Table 38 Waukegan Harbor shipments
- Tables 39-63 Illinois barge shipments on inland waterways

Tonnage data is presented annually for years 1970 to 1984 for tables that indicate foreign and domestic shipments, while data on shipments of cargoes by commodity groups and by commodities is presented in five-year intervals from 1970 to 1975 to 1980 and in a four-year interval to 1984. This was the most recent year for which national shipping statistics had been published as of the date of this Database report. These intervals were selected as base years for trend analysis and as the basis for comparing U.S. shipments to Illinois shipments.

Tables 39 to 62 present the tons of cargoes shipped to and from Illinois on the inland waterway system. For purposes of data presentation, the inland waterways in Illinois are divided into 10 port ranges with five port ranges on the Illinois Waterway, 3 port ranges on the Mississippi River and 2 port ranges on the Ohio River. The list on the following page indicates the borders of the Illinois port ranges, and Figure 4 identifies the ranges on a map of the state.

BORDERS OF ILLINOIS PORT RANGES

<u>Port Range</u>	<u>Waterway</u>	<u>Limits</u>
1	Mississippi	Wisconsin State Line to the confluence with the Illinois River
2	Mississippi	Confluence with the Illinois River to the St. Clair/Monroe County Line
3	Mississippi	St. Clair/Monroe County Line to the confluence with the Ohio River, including the Kaskaskia River
4	Ohio	Confluence with the Mississippi River to the Massac/Pope County Line
5	Ohio	Massac/Pope County Line to the Indiana State Line
6	Illinois	Confluence with the Mississippi River to the Mason/Tazewell County Line
7	Illinois	Mason/Tazewell County Line to Peoria/Marshall/Woodford County Line
8	Illinois	Peoria/Marshall/Woodford County Line to LaSalle/Grundy County Line
9	Illinois	LaSalle/Grundy County Line to Will/Cook County Line
10	Illinois	Will/Cook County Line to Lake Michigan, including Chicago Sanitary and Ship Canal/Chicago River and Cal-Sag Channel/Calumet River

ILLINOIS PORT RANGES

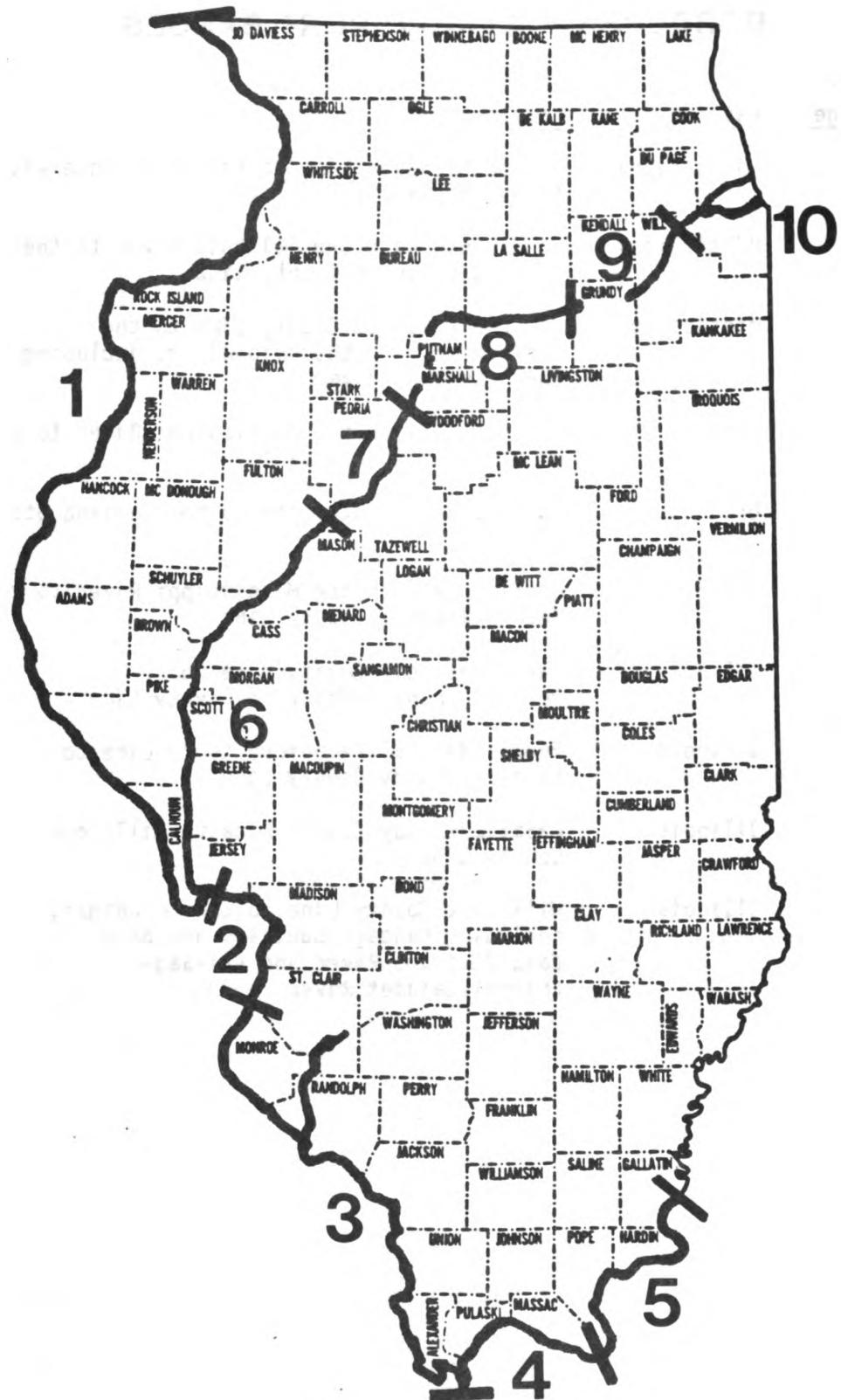


FIGURE 4

Table 1

U.S. FOREIGN AND DOMESTIC WATERBORNE SHIPMENTS
Calendar Years 1970-1984
 (Tons of 2,000 Pounds)

<u>Year</u>	<u>Foreign</u>	<u>Domestic</u>	<u>Total</u>
1970	580,989,133	950,727,374	1,531,696,507
1971	555,985,584	946,598,105	1,512,583,690
1972	629,360,844	965,811,761	1,616,792,505
1973	767,333,903	934,158,107	1,761,532,010
1974	764,088,905	932,539,333	1,746,798,544
1975	743,707,407	945,325,959	1,635,034,355
1976	855,953,909	979,042,910	1,835,006,819
1977	935,255,813	972,955,806	1,905,223,519
1978	946,057,833	1,075,291,855	2,021,399,754
1979	933,444,963	1,080,312,555	2,073,757,628
1980	921,404,000	1,077,483,492	1,998,877,492
1981	837,102,150	1,054,455,797	1,941,558,947
1982	819,730,983	957,009,596	1,776,740,579
1983	751,140,194	956,520,817	1,707,661,011
1984	803,338,133	1,032,682,435	1,836,020,619

Source: Waterborne Commerce of the United States, Part 5,
 Merchant Summaries, Table 1, Selected years, U.S. Army
 Corps of Engineers.

Source: Waterborne Commerce of the United States, Part 5,
 National Summaries, Table 1A, Selected years,
 U.S. Army Corps of Engineers.

Table 2

U.S. WATERBORNE EXPORTS AND IMPORTS
Calendar Years 1970-1984
 (Tons of 2,000 Pounds)

<u>Year</u>	<u>Exports</u>	<u>Imports</u>	<u>Total Foreign</u>
1970	241,629,361	339,339,772	580,960,133
1971	206,239,744	359,745,840	565,985,584
1972	232,415,232	397,565,612	629,980,844
1973	277,305,888	490,088,015	767,393,903
1974	266,805,094	497,292,811	764,088,905
1975	272,134,891	476,572,516	748,707,407
1976	285,645,016	570,318,893	855,963,909
1977	277,119,920	658,136,893	935,256,813
1978	302,871,026	643,186,863	946,057,889
1979	360,449,306	632,995,557	993,444,963
1980	403,882,879	517,521,121	921,404,000
1981	409,910,646	477,191,504	887,102,150
1982	403,109,549	416,621,434	819,730,983
1983	363,292,869	387,847,325	751,140,194
1984	376,198,562	427,139,571	803,338,133

Table 3

LEADING U.S. WATERBORNE EXPORT COMMODITY GROUPS
 Calendar Years 1970, 1975, 1980, 1984
 (Tons of 2,000 Pounds)

Commodity Group	WCSC Number(s)	1970		1975		1980		1984		% Change 1970-1984
		Tons	%	Tons	%	Tons	%	Tons	%	
Farm Products	01	56,729,752	23.5	96,400,115	35.4	148,681,142	36.8	136,201,012	36.2	140.1
Coal	11	71,275,818	29.5	65,273,814	24.0	91,339,901	22.6	81,354,925	21.6	14.1
Petroleum Products & Coal Products	29	15,829,373	6.6	12,820,411	4.7	16,621,281	4.1	34,279,029	9.1	116.6
Chemicals & Allied Products	28	15,771,996	6.5	17,889,165	6.6	32,765,194	8.1	29,966,528	8.0	90.0
Lumber, Wood Products & Furniture	24,25	16,713,558	6.9	19,670,294	7.2	25,242,802	6.3	21,879,225	5.8	30.9
Food & Kindred Products	20	12,316,073	5.1	11,754,686	4.3	24,003,176	5.9	20,223,508	5.4	64.2
Non-Metallic Minerals, Except Fuels	14	17,873,926	7.4	19,722,032	7.2	23,587,007	5.8	19,800,467	5.3	10.8
Pulp & Paper	26	5,440,411	2.3	4,761,558	1.7	7,876,628	2.0	6,842,777	1.8	25.8
Metallic Ores	10	7,047,628	2.9	4,137,706	1.5	8,085,208	2.0	6,829,064	1.8	-3.1

Source: Waterborne Commerce of the United States, Part 5, National Summaries, Table 2, selected years, U.S. Army Corps of Engineers.

Notes: Export shipments of at least 3 million tons in 1984. Data is rank-ordered for 1984 only.

Through 1977, foreign shipments of coke were classified in group 33 (WCSC number 3313). These shipments are reclassified in this table in group 29 (WCSC number 2920) in years 1970 and 1975.

Table 4

LEADING U.S. WATERBORNE EXPORT COMMODITIES
Calendar Years 1970, 1975, 1980, 1984
(Tons of 2,000 Pounds)

Commodity	WCS Number	1970 Tons <u>\$</u>	1970 Tons <u>\$</u>	1975 Tons <u>\$</u>	1975 Tons <u>\$</u>	1980 Tons <u>\$</u>	1980 Tons <u>\$</u>	1984 Tons <u>\$</u>	1984 Tons <u>\$</u>	% Change 1970-1984
Coal	1121	71,275,818	29.5	65,273,814	24.0	91,339,901	22.6	81,354,925	21.6	14.1
Corn	0103	15,397,640	6.4	35,976,012	13.2	67,014,582	16.8	52,664,866	14.0	242.0
Wheat	0107	19,208,968	7.9	34,036,506	12.5	39,103,005	9.7	46,556,909	12.4	142.3
Soybeans	0111	12,868,109	5.3	13,728,006	5.0	23,533,781	5.8	20,209,887	5.4	56.8
Coke	2920	8,579,056	3.6	9,025,304	3.3	11,056,560	2.7	14,540,590	3.9	69.5
Logs	2411	11,194,905	4.6	10,915,251	4.0	13,361,002	3.3	14,433,115	3.8	28.9
Residue										
Fuel Oil	2915	3,390,274	1.4	1,416,909	0.5	1,065,335	0.3	12,223,092	3.2	260.5
Phosphate										
Rock	1471	10,634,392	4.4	10,667,161	3.9	13,590,024	3.4	11,195,212	3.0	5.3
Basic Chemicals, NEC	2819	8,447,951	3.5	8,576,914	3.2	12,093,019	3.0	10,688,773	2.8	26.5
Iron & Steel Scrap	4011	8,863,221	3.7	7,438,816	2.7	9,195,905	2.3	8,309,091	2.2	-6.0
Prepared Animal Feeds	2042	1,116,285	0.5	789,822	0.3	14,288,179	3.5	7,501,472	2.0	572.0
Sorghum Grains	0106	4,116,058	1.7	6,173,535	2.3	0 -	0	6,795,453	1.8	64.9
Iron Ore	1011	6,119,002	2.5	2,782,211	1.0	6,330,745	1.6	5,963,432	1.5	-8.8
Grain Mill Products	2049	5,287,322	2.2	5,803,956	2.1	826,925	0.2	5,153,378	1.4	-2.5
Wood Chips	2416	3,621,058	1.5	6,417,390	2.4	8,494,723	2.1	4,564,672	1.2	26.1
Pulp	2611	2,953,303	1.2	2,519,254	0.9	3,571,527	0.9	3,304,749	0.9	11.9
Distillate Fuel Oil	2914	300,868	0.1	101,738	-	142,166	-	3,135,552	0.8	942.2

Source: Waterborne Commerce of the United States, Part 5, National Summaries, Table 2, selected years.
U.S. Army Corps of Engineers.

Notes: Exports of at least 3 million tons in 1984. Data is rank-ordered for 1984 only.

Table 5

LEADING U.S. WATERBORNE IMPORT COMMODITY GROUPS
 Calendar Years 1970, 1975, 1980, 1984
 (Tons of 2,000 Pounds)

Commodity Group	WCS Number(s)	1970		1975		1980		1984		% Change 1970-1984
		Tons	\$	Tons	\$	Tons	\$	Tons	\$	
Crude Petroleum	13	93,567,571	27.6	255,912,508	53.7	305,965,362	59.1	171,638,703	40.2	83.4
Petroleum Products & Coal Products	29	101,706,800	21.3	78,567,469	16.5	67,278,256	13.0	85,676,683	20.1	-15.8
Metallic Ores	10	69,298,903	20.4	67,763,674	14.2	52,381,987	10.1	36,333,180	8.5	-47.6
Chemicals & Allied Products	28	6,481,147	1.9	8,663,688	1.8	10,023,549	1.9	25,680,276	6.0	296.2
Primary Metal Products	33	13,672,424	2.9	13,514,151	2.8	15,570,453	3.0	25,499,207	6.0	86.5
Non-metallic Minerals, Except Fuels	14	16,133,203	4.8	16,204,074	3.4	22,241,175	4.3	22,191,260	5.2	37.6
Food & Kindred Products	20	11,673,768	3.4	10,523,499	2.2	10,682,783	2.1	13,759,725	3.2	17.9
Farm Products	01	5,167,980	1.5	4,822,980	1.0	5,157,387	1.0	5,898,689	1.4	12.2
Transport Equipment	37	1,939,709	0.6	2,400,952	0.5	4,637,921	0.9	5,388,335	1.3	177.8

Source: Waterborne Commerce of the United States, Part 5, National Summaries, Table 2, selected years, U.S. Army Corps of Engineers.

Notes: Import shipments of at least 5 million tons in 1984. Data is rank-ordered for 1984 only.

Through 1977, foreign shipments of coke were classified in group 33 (WCS number 3313). These shipments are reclassified in this table in group 29 (WCS number 2920) in years 1970 and 1975.

Table 6

LEADING U.S. WATERBORNE IMPORT COMMODITIES
Calendar Years 1970, 1975, 1980, 1984
(Tons of 2,000 Pounds)

Commodity	WCSIC Number	1970 Tons	1970 Tons	1975 Tons	1975 Tons	1980 Tons	1980 Tons	1984 Tons	1984 Tons	% Change 1970-1984
Crude Petroleum	1311	93,567,571	26.9	255,912,508	53.7	305,965,362	59.1	171,638,703	40.2	83.4
Residual Fuel Oil	2915	88,320,058	26.0	59,171,932	12.4	45,592,883	8.8	40,861,975	9.6	-53.7
Iron & Steel Products	3314-3319	12,533,574	3.7	12,155,703	2.6	14,528,166	2.8	22,918,933	5.4	82.9
Iron Ore	1011	47,972,265	14.1	49,280,487	10.3	27,255,050	5.3	18,238,668	4.3	-62.0
Aluminum Ore	1051	17,204,903	5.1	14,847,147	3.1	22,113,532	4.3	16,397,807	3.8	-4.7
Basic Chemicals, NEC	2819	4,720,190	1.4	6,378,187	1.3	5,577,122	1.1	16,197,214	3.8	243.1
Distillate Fuel Oil	2914	2,190,039	0.6	6,277,539	1.3	2,319,997	0.4	14,678,758	3.4	567.8
Gasoline	2911	504,873	0.1	3,506,155	0.7	6,101,929	1.2	12,550,926	2.9	2,386.0
Naphtha	2917	0	-	0	-	0	-	9,234,327	2.2	N.A.
Gypsum	1494	0	-	0	-	0	-	8,584,544	2.0	N.A.
Salt	1491	3,394,764	1.0	2,972,934	0.6	4,644,941	0.9	5,935,837	1.4	74.9
Motor Vehicles	3711	1,609,262	0.5	2,039,579	0.4	4,358,240	0.8	5,278,123	1.2	228.0
Clay	1451	230,976	-	206,286	-	5,540,486	1.1	3,191,012	0.7	1,281.5
Bananas	0132	2,246,295	0.7	2,375,154	0.5	0	-	3,157,856	0.7	40.6

Source: Waterborne Commerce of the United States, Part 5, National Summaries, Table 2, selected years,
U.S. Army Corps of Engineers.

Notes: Imports of at least 3 million tons in 1984. Data is rank-ordered for 1984 only.

Table 7

FOREIGN SHIPMENTS AT U.S. PORTS
Not Including Great Lakes Ports
Calendar Years 1970, 1975, 1980, 1984
(Tons of 2,000 Pounds)

Port	1970	1975	1980	1984
New Orleans, LA	32,214,996	47,659,170	73,776,399	57,953,290
New York, NY	57,932,094	55,691,050	50,191,608	52,710,215
Houston, TX	17,083,283	36,742,282	53,503,463	47,237,620
Hampton Roads, VA (Norfolk & Newport News)	56,180,632	50,900,120	61,429,226	46,792,870
Baltimore, MD	29,854,441	34,515,426	36,117,280	24,724,073
Corpus Christie, TX	6,852,525	18,233,713	20,654,982	22,317,594
Tampa, FL	13,273,657	16,768,875	22,996,773	21,506,256
Long Beach, CA	12,527,062	17,190,733	18,598,018	19,903,373
Baton Rouge, LA	13,973,500	20,407,808	29,312,553	19,493,524
Beaumont, TX	3,616,153	9,998,767	28,815,074	16,933,440
Philadelphia, PA	23,106,102	33,490,549	29,358,971	15,865,566
Mobile, AL	11,717,357	13,300,553	17,787,905	15,527,277
Portland, OR	5,208,161	8,590,885	13,761,127	15,232,354
Pascagoula, MS	1,333,983	8,050,588	13,870,908	14,244,163
Lake Charles, LA	1,884,855	7,239,930	7,239,930	14,202,990
Texas City, TX	881,575	6,194,240	12,572,395	13,881,812
Los Angeles, CA	9,719,735	16,096,379	13,807,371	13,835,816
Tacoma, WA	5,032,849	5,616,286	11,886,954	10,803,681
Seattle, WA	4,339,429	5,119,216	9,602,069	10,237,400
Galveston, TX	2,445,423	3,946,340	7,453,772	9,799,129
Savannah, GA	4,134,654	4,902,906	9,066,482	8,937,148
Boston, MA	9,829,278	6,534,456	6,027,677	8,532,014
Freeport, TX	1,124,195	18,233,713	14,320,475	7,842,837
Port Arthur, TX	2,134,217	10,337,588	16,583,151	7,118,818
Longview, WA	3,568,832	3,853,917	6,727,356	6,350,573
Oakland, CA	2,170,901	2,761,997	5,348,669	6,014,528

Source: Waterborne Commerce of the United States, Part 5, National Summaries.
Table 3, selected years. U.S. Army Corps of Engineers.

Notes: Foreign shipments of at least 5 million tons in 1984. Data is rank-ordered for 1984 only.

Table 8

CONTAINER TRAFFIC AT U.S. PORTS
Calendar Years 1975-1983
(Thousand of TEUs)

Year	Loaded TEUs	Empty TEUs	Total TEUs
1975	1,640,3	252,3	1,892,6
1976	1,939,9	N.A.	N.A.
1977	2,033,8	N.A.	N.A.
1978	3,038,9	197,8	3,236,7
1979	3,330,3	225,8	3,556,1
1980	3,685,8	363,5	4,049,3
1981	3,883,7	333,9	4,217,6
1982	3,946,3	364,3	4,310,6
1983	4,147,0	458,8	4,605,8

Source: Containerized Cargo Statistics, Calendar Year 1983,
Maritime Administration.

Notes: A TEU is twenty-foot equivalent unit. All 20-foot and
40-foot containers (and others of varying lengths) are
converted to 20-foot units as a common measure of container
traffic.

Table 9

LOADED TEUS HANDLED AT MAJOR U.S. PORTS
Calendar Year 1983
(Thousands of TEUs)

Port	TEUs	% of U.S. Total
New York, NY	795	19.2
Los Angeles, CA	481	11.6
Long Beach, CA	453	10.9
Seattle, WA	430	10.4
Oakland, CA	336	8.1
Baltimore, MD	279	6.7
Norfolk, VA	170	4.1
Charleston, SC	160	3.9
Savannah, GA	136	3.3
Houston, TX	127	3.1
Miami, FL	105	2.5
San Francisco, CA	86	2.1
New Orleans, LA	84	2.0
Philadelphia, PA	63	1.5
Portland, OR	56	1.4
Gulfport, MS	51	1.2
Boston, MA	28	.7
Jacksonville, FL	27	.7
Port Everglades, FL	27	.7
Wilmington, NC	27	.7
Tacoma, WA	23	.6
Gulfport, MS	21	.5
Richmond, VA	17	.4
All Other Ports	165	4.0
TOTAL U.S.	4,147	100.0

Source: Containerized Cargo Statistics, Calendar Year 1983.
Maritime Administration.

Notes: A TEU is a twenty-foot equivalent unit. All 20-foot and 40-foot containers (and others of varying lengths) are converted to 20-foot units as a common measure of container traffic.

Source: Waterborne Commerce of the United States, Part 5, National Summary, Table 10, selected years, U.S. Army Corps of Engineers.

Notes: Waterborne Commerce of the United States, Part 5, National Summary, Table 10, selected years, U.S. Army Corps of Engineers.

Table 10

U.S. DOMESTIC WATERBORNE COMMERCE
Calendar Years 1970-1984
(Tons of 2,000 Pounds)

Year	Barge Shipments on Inland and Intracoastal Waterways			Other	Total Domestic
	Coastwise	Lakewise	Inland		
1970	240,070,285	157,058,867	511,602,358	41,995,864	950,727,374
1971	245,172,733	140,954,956	521,997,097	38,473,320	946,598,106
1972	244,543,004	145,013,420	558,657,951	38,597,386	986,811,761
1973	241,077,763	156,620,831	559,474,871	36,984,642	994,158,107
1974	237,412,815	146,067,270	556,830,288	42,389,266	982,699,639
1975	234,784,316	129,331,161	542,325,353	39,885,129	946,325,959
1976	239,226,470	132,112,775	564,966,012	42,737,653	979,042,910
1977	251,737,731	109,079,945	567,847,915	44,301,215	972,966,806
1978	308,613,786	142,662,552	581,602,029	42,413,498	1,075,291,865
1979	308,666,189	143,563,644	583,967,013	44,115,819	1,080,312,665
1980	333,196,448	115,124,231	583,331,886	45,830,837	1,077,483,402
1981	325,120,039	115,418,165	573,516,516	40,402,077	1,054,456,797
1982	313,869,433	72,084,986	538,140,260	32,914,917	957,009,596
1983	312,796,761	83,446,847	530,383,834	29,893,375	956,520,817
1984	307,652,127	98,010,499	588,606,222	38,413,638	1,032,682,486

Source: Waterborne Commerce of the United States, Part 5, National Summary, Table 10, selected years, U.S. Army Corps of Engineers.

Notes: Coastwise includes intra-Territory shipments between Puerto Rico and Virgin Islands.

Bar = shipments on Inland and Local Barge Traffic in Table 10.

Column for "other" domestic shipments includes inland shipments that cross short stretches of open water; shipments between the inland waterways and the Great Lakes; items taken directly from the beds of oceans and the Gulf of Mexico including marine products, sand and gravel; and shipments between inland waterways and offshore installations.

Table 11

LEADING COASTWISE COMMODITY GROUPS
Calendar Years 1970, 1975, 1980, 1984
(Tons of 2,000 Pounds)

Commodity Group	WCSC Number(s)	1970 Tons	1970 %	1975 Tons	1975 %	1980 Tons	1980 %	1984 Tons	1984 %	% Change 1970-1984
Crude Petroleum	13	61,918,593	26.0	26,038,636	11.2	126,581,876	38.4	138,652,246	43.1	123.9
Petroleum Products & Coal Products	29	130,634,276	54.8	159,418,243	68.7	154,582,683	46.9	118,618,443	38.6	-9.2
Non-Metallic Minerals, Except Fuels	14	14,714,876	6.2	15,439,720	6.7	17,659,647	5.4	14,507,237	4.7	-1.4
Chemicals & Allied Products	28	8,428,657	3.5	8,671,446	3.7	9,950,255	3.0	9,253,103	3.0	9.8
Coal	11	5,849,056	2.5	3,453,045	1.5	3,705,329	1.1	7,865,877	2.6	34.5
Food & Kindred Products	20	4,456,046	1.9	5,155,583	2.2	5,367,697	1.6	5,027,317	1.6	12.8

Source: Waterborne Commerce of the United States, Part 5, National Summaries, Table 2, selected years, U.S. Army Corps of Engineers.

Notes: Coastwise shipments of at least 5 million tons in 1984. Data is rank-ordered for 1984 only.

Coastwise shipments include Intra-Territory shipments.

Table 12

LEADING COASTWISE COMMODITIES
Calendar Years 1970, 1975, 1980, 1984
(Tons of 2,000 Pounds)

Commodity	WCSC Number	1970 Tons	1970 %	1975 Tons	1975 %	1980 Tons	1980 %	1984 Tons	1984 %	% Change 1970-1984
Crude Petroleum	1311	61,918,593	26.0	26,038,636	11.2	126,581,876	38.4	138,652,246	43.1	123.9
Gasoline	2911	42,532,582	17.8	51,345,409	22.1	44,196,300	3.4	42,818,289	13.9	0.7
Residual Fuel O11	2915	23,881,724	10.0	46,684,702	20.1	57,471,565	17.4	31,901,262	10.4	33.6
Distillate Fuel O11	2914	44,530,989	18.7	46,200,454	19.9	34,325,045	10.4	27,215,625	8.8	-38.9
Phosphate Rock	1471	5,061,642	2.1	8,011,780	3.5	8,303,426	2.5	7,896,303	2.6	56.0
Coal	1121	5,849,056	2.5	3,453,045	1.5	3,705,329	1.1	7,865,877	2.6	34.5
Jet Fuel	2912	5,727,293	2.4	4,806,310	2.1	6,662,450	2.0	7,669,994	2.5	33.9
Basic Chemicals, NEC	2819	2,246,939	0.9	2,958,166	1.3	4,895,781	1.5	4,237,738	1.4	88.6
Sand, Gravel, Crushed Rock	1442	5,738,667	2.4	3,867,392	1.7	4,167,546	1.3	4,161,544	1.4	-27.5
Asphalt, Tar	2918	3,778,250	1.6	3,214,142	1.4	2,697,543	0.8	2,912,180	0.9	-22.9
Lubricating Oils & Greases	2916	3,091,042	1.3	3,038,999	1.3	3,043,632	0.9	2,725,658	0.9	-11.8
Liquid Sulphur	1493	3,220,115	1.4	3,279,497	1.4	4,958,745	1.5	2,342,576	0.8	-27.3

Source: Waterborne Commerce of the United States, Part 5, National Summaries, Table 2, selected years, U.S. Army Corps of Engineers.

Notes: Shipments of at least 2 million tons in 1984. Data is rank-ordered for 1984 only.

Coastwise shipments include Intra-Territory shipments.

Table 13

LEADING LAKEWISE (GREAT LAKES) COMMODITY GROUPS
Calendar Years 1970, 1975, 1980, 1984
(Tons of 2,000 Pounds)

Commodity Group	WCSC Number	1970 Tons	1970 %	1975 Tons	1975 %	1980 Tons	1980 %	1984 Tons	1984 %	% Change 1970-1984
Metallic Ores	10	72,214,706	46.0	55,782,374	43.1	60,377,487	52.4	49,341,470	50.3	-31.7
Coal	11	31,071,395	19.8	21,792,899	16.9	21,900,189	19.0	21,521,962	22.0	-30.7
Non-Metallic Minerals, Except Fuels	14	34,200,191	21.8	29,463,092	22.8	21,472,715	18.7	19,859,469	20.3	-41.9
Stone, Clay & Concrete Products	32	4,294,099	2.7	3,159,942	1.1	2,935,611	2.5	2,802,212	2.9	-34.7
Petroleum Products & Coal Products	29	7,505,173	4.8	4,978,088	3.8	4,453,111	3.9	2,450,407	2.5	-67.4

Source: Waterborne Commerce of the United States, Part 5, National Summaries, Table 2, selected years, U.S. Army Corps of Engineers.

Notes: A lakewise shipment is a domestic shipment of cargo between U.S. ports on the Great Lakes.

Lakewise shipments of at least 2 million tons in 1984. Data is rank-ordered for 1984 only.

Table 14

LEADING LAKEWISE (GREAT LAKES) COMMODITIES
Calendar Years 1970, 1975, 1980, 1984
(Tons of 2,000 Pounds)

Commodity	WCSC Number	1970 Tons	1970 %	1975 Tons	1975 %	1980 Tons	1980 %	1984 Tons	1984 %	% Change 1970-1984
Iron Ore	1011	72,189,818	46.0	65,781,539	50.9	60,374,104	52.4	49,341,470	50.3	-31.7
Coal	1121	31,071,395	19.8	21,792,899	16.9	21,900,189	19.0	21,521,962	22.0	-30.7
Limestone	1411	31,377,519	20.0	26,641,463	20.6	19,691,641	17.1	17,403,375	17.8	-44.5
Cement	3241	4,007,324	2.6	3,089,765	2.4	3,604,339	3.1	2,766,748	2.8	-31.0
Gypsum	1494	655,426	0.4	599,611	0.5	725,771	0.6	877,990	0.9	34.0
Wheat	0107	1,547,683	1.0	1,442,447	1.1	1,446,484	1.3	864,213	0.9	-44.2
Gasoline	2911	2,743,511	1.7	1,499,985	1.2	1,122,432	1.0	653,325	0.7	-76.2
Sand, Gravel, Crushed Rock	1442	1,106,284	0.7	853,399	0.7	452,949	0.4	558,947	0.6	-49.5
Asphalt, Tar	2918	182,551	0.1	182,035	0.1	180,389	0.2	519,796	0.5	184.7
Distillate Fuel Oil	2914	2,427,665	1.5	1,537,229	1.2	905,726	0.8	469,396	0.5	-80.7
Slag	3312	160,695	0.1	402,504	3.1	342,095	0.3	424,717	0.4	164.3
Residual Fuel Oil	2915	1,573,027	1.0	1,376,588	1.1	1,588,896	1.4	360,417	0.4	-77.1
Jet Fuel	2912	166,572	0.1	244,418	0.2	183,318	0.2	255,606	0.3	53.5

Source: Waterborne Commerce of the United States, Part 5, National Summaries, Table 2, selected years, U.S. Army Corps of Engineers.

Notes: A lakewise shipment is a domestic shipment of cargo between U.S. ports on the Great Lakes.

Lakewise shipments of at least 200,000 tons in 1984. Data is rank-ordered for 1984 only.

Table 15

LEADING COMMODITY GROUPS SHIPPED BY BARGE ON INLAND AND INTRACOASTAL WATERWAYS
Calendar Years 1970, 1975, 1980, 1984
(Tons of 2,000 Pounds)

Commodity Group	MSC Number	1970		1975		1980		1984		% Change 1970-1984
		Tons	%	Tons	\$	Tons	\$	Tons	\$	
Coal	11	117,079,116	22.9	127,567,735	23.5	138,387,115	23.7	160,111,894	27.2	36.8
Petroleum Products & Coal Products	29	132,012,860	25.8	183,460,785	33.8	168,896,255	29.0	149,452,797	25.4	13.2
Non-Metallic Minerals, Except Fuels	14	81,578,278	15.9	76,663,575	14.1	71,179,622	12.2	68,637,069	11.7	-15.9
Farm Products	01	24,459,333	4.8	39,574,792	7.3	60,590,305	10.4	67,256,699	11.4	175.0
Chemicals & Allied Products	28	30,137,748	5.9	30,548,999	5.6	38,678,898	6.6	44,902,703	7.6	49.0
Crude Petroleum	13	53,888,234	10.5	49,695,951	9.2	40,080,264	6.9	37,817,679	6.4	-29.8
Waste & Scrap Materials	40	12,095,532	2.4	15,464,185	2.9	14,394,064	2.5	14,857,873	2.5	22.8
Food & Kindred Products	20	5,259,239	0.9	7,091,718	1.3	14,517,486	2.5	12,825,165	2.2	143.9
Primary Metal Products	33	8,264,512	1.6	7,356,585	1.4	7,783,758	1.3	7,522,553	1.3	-9.0
Stone, Clay & Concrete Products	32	5,767,124	1.1	4,724,849	0.9	5,028,012	0.9	7,456,196	1.3	29.3
Lumber & Wood Products	24	4,598,715	0.9	2,674,388	0.5	4,625,864	0.8	5,759,030	1.0	25.2

Source: Waterborne Commerce of the United States, Part 5, National Summaries, Table 10, selected years, U.S. Army Corps of Engineers.

Notes: Barge shipments of at least 5 million tons in 1984. Data is rank-ordered for 1984 only.

Barge shipments on Inland and Intracoastal Waterways represents the sum of Internal and Local shipments in Table 10.

Table 16

LEADING COMMODITIES SHIPPED BY BARGE ON INLAND AND INTRACOASTAL WATERWAYS
 (Calendar Years 1970, 1975, 1980, 1984
 (Tons of 2,000 Pounds)

Commodity	WCS Number	1970 Tons	1970 %	1975 Tons	1975 %	1980 Tons	1980 %	1984 Tons	1984 %	% Change 1970-1984
Coal	1121	117,079,116	22.9	127,567,735	23.5	138,387,115	23.7	160,111,894	27.2	36.8
Residual Fuel Oil	2915	50,946,760	9.5	60,946,225	11.2	78,920,538	13.5	60,453,666	10.3	18.7
Sand, Gravel, Crushed Rock	1442	65,311,163	10.3	61,650,329	11.4	55,090,061	9.4	53,492,801	9.1	-18.1
Crude Petroleum	1311	53,888,234	10.5	49,695,951	9.2	40,080,264	6.9	37,817,679	6.4	-29.8
Gasoline	2911	40,264,907	7.8	36,598,046	6.7	43,500,822	7.5	31,188,053	5.3	-22.5
Corn	0103	11,303,988	2.1	20,550,020	3.8	30,508,388	5.2	31,187,552	5.3	175.9
Distillate Fuel Oil	2914	25,382,685	5.3	35,923,207	6.6	33,202,650	5.7	30,428,801	5.2	19.9
Basic Chemicals, NEC	2819	12,238,582	2.4	11,968,563	2.2	17,176,450	2.9	18,308,473	3.1	49.6
Wheat	0107	4,091,635	0.7	8,646,478	1.6	12,622,624	2.2	15,769,915	2.7	285.4
Soybeans	0111	8,205,351	1.5	9,421,991	1.7	16,086,168	2.8	15,540,895	2.6	89.4
Fertilizer	2871, 2872 2873, 2879	4,423,958	0.9	5,100,471	0.9	8,062,935	1.4	12,547,225	2.1	183.6
Animal Feeds	2042	106,993	-	167,677	-	4,242,271	0.7	5,850,880	1.0	5,368.5
Cement	3241	4,357,689	0.8	3,650,420	0.7	3,571,830	0.6	5,458,575	0.9	25.3
Grain Mill Products	2049	2,128,988	0.4	4,230,399	0.8	7,033,510	1.2	4,386,756	0.7	106.0

Source: Waterborne Commerce of the United States, Part 5, National Summaries, Table 10, selected years,
 U.S. Army Corps of Engineers.

Notes: Barge shipments of at least 4 million tons in 1984. Data is rank-ordered for 1984 only.

Barge shipments on Inland and Intracoastal Waterways represents the sum of Internal and Local shipments in Table 10.

Table 17

BARGE SHIPMENTS ON MAJOR INLAND/INTRACOASTAL WATERWAYS
Calendar Years 1970, 1975, 1980, 1984
(Tons of 2,000 Pounds)

River/Waterway, State (River Miles)	1970	1975	1980	1984
Mississippi (1,812)	178,806,043	187,913,877	222,901,151	240,389,289
Ohio (981)	129,584,658	140,058,314	155,906,719	174,637,494
Gulf Intracoastal Waterway (1,109)	100,143,435	95,446,274	90,075,572	92,405,875
Illinois Waterway (355)	36,645,141	45,831,976	44,118,876	39,156,220
Monongahela, PA, WV (123)	42,274,126	37,268,425	34,310,879	34,513,953
Tennessee (550)	25,489,225	28,315,539	29,335,552	33,204,953
Black Warrior/Tombigbee, AL (428)	11,132,630	12,737,822	16,708,082	19,503,943
Columbia/Snake (745)	7,834,584	16,543,790	19,050,823	16,543,199
Kanawha, WV (91)	14,055,674	12,449,424	14,673,829	14,232,525
Cumberland, TN, AL, KY (552)	5,559,238	11,830,145	12,348,920	14,118,585
Green, KY (228)	16,904,306	15,893,545	9,983,135	11,369,516
Arkansas (472)	3,994,782	5,155,532	8,461,411	8,521,310
Missouri (735)	7,519,251	6,208,425	5,914,775	6,395,205
Big Sandy, KY, WV (27)	1,362,820	1,450,278	2,491,795	4,842,951
Allegheny, PA (72)	5,561,147	5,332,205	5,012,399	4,349,950
Alabama (304)	1,222,561	2,247,812	1,501,448	3,950,558
Atchafalaya, LA (121)	4,905,304	2,958,039	4,327,349	3,361,870
Kaskaskia, IL (35)	Not Built	194,750	2,045,575	3,173,275

Notes: Barge shipments of at least 2 million tons in 1984. Data is rank-ordered for 1984 only.

Table 18

GREAT LAKES SHIPMENTS
TO/FROM U.S. PORTS
Calendar Years 1970-1984
(Tons of 2,000 Pounds)

Year	U.S. Overseas Exports Via Seaway	U.S. Overseas Imports Via Seaway	U.S. Canada To Canada To U.S.		Total U.S. Great Lakes
			Lakewise	Canada To Canada To U.S.	
1970	12,411,462	4,585,996	23,520,187	21,820,193	157,058,867
1971	11,754,938	6,864,419	21,725,999	19,104,708	140,954,956
1972	12,232,786	6,286,758	22,752,001	18,861,084	145,013,420
1973	16,409,201	5,270,966	22,089,220	22,988,904	156,620,831
1974	9,346,470	4,315,423	18,772,870	19,027,376	146,067,270
1975	11,311,305	3,333,432	24,115,590	18,121,866	129,331,161
1976	11,050,568	4,799,339	23,961,780	25,845,506	132,112,775
1977	12,617,647	7,411,950	23,718,116	25,416,264	109,079,945
1978	19,187,649	7,129,217	24,366,720	19,916,819	142,662,552
1979	18,191,691	5,646,213	30,471,322	19,450,918	143,563,644
1980	16,799,606	2,101,050	28,277,292	13,414,205	115,124,231
1981	13,601,829	2,929,320	29,884,399	16,794,705	115,418,165
1982	11,323,459	2,568,743	24,960,973	11,541,473	122,479,634
1983	8,958,610	2,993,730	23,378,582	13,080,460	83,446,847
1984	11,759,441	4,921,710	29,169,892	12,922,699	98,010,499

Source: Waterborne Commerce of the United States, Part 5, National Summaries, Table 2 and Table 28, selected years, U.S. Army Corps of Engineers.

Notes: U.S. Seaway Exports include Farm Products in WSC codes 0102 through 0119 that are classified by the Corps of Engineers as Canadian Exports. These bulk grain commodities are shipped from U.S. ports on the Great Lakes to Canadian ports on the St. Lawrence River, where the commodities are transshipped to overseas destinations.

Source: Waterborne Commerce of the United States, Parts 1, 2, 3, 4, Selected years, U.S. Army Corps of Engineers.

Table 19

GREAT LAKES PORTS OVERSEAS SHIPMENTS
Not Including Canadian Shipments
Calendar Years 1970, 1975, 1980, 1984
(Tons of 2,000 Pounds)

Port	1970	1975	1980	1984
Duluth-Superior, MN-WI	4,601,217	4,561,004	7,299,956	6,133,937
Toledo, OH	2,272,333	3,250,546	5,191,966	3,245,756
Chicago, IL	4,872,647	3,065,155	2,088,680	2,039,741
Detroit, MI	2,508,502	1,711,801	946,572	2,005,096
Milwaukee, WI	1,053,507	606,271	1,679,458	1,098,468
Burns Harbor, IN	50,799	95,293	219,992	682,156
Cleveland, OH	758,746	467,572	276,644	414,504
Erie, PA	33,029	75,390	61,694	218,417
Green Bay, WI	53,991	111,901	54,513	138,619
Saginaw, MI	175,647	312,947	300,415	138,282
Buffalo, NY	80,099	75,390	47,090	122,387
Astabula, OH	147,137	109,849	155,274	102,688

Source: Waterborne Commerce of the United States, Part 3, Waterways and Harbors Great Lakes, selected years, U.S. Army Corps of Engineers.

Notes: Overseas shipments of at least 100,000 tons in 1984. Data is rank-ordered for 1984 only.

Overseas shipments include Foreign Exports Overseas, Foreign Imports Overseas and Canadian Exports of grain. Grain shipped from U.S. ports to Canada is transshipped to overseas destinations.

Table 20

LEADING GREAT LAKES/OVERSEAS EXPORT COMMODITY GROUPS
Calendar Years 1970, 1975, 1980, 1984
(Tons of 2,000 Pounds)

Commodity Group	WCSC Number(s)	1970 Tons	1970 %	1975 Tons	1975 %	1980 Tons	1980 %	1984 Tons	1984 %	% Change 1970-1984
Farm Products	01	8,576,599	69.1	9,335,956	82.5	14,827,335	88.3	9,958,360	84.7	16.1
Scrap	40	889,466	7.2	588,465	5.2	748,206	4.5	696,836	5.9	-21.7
Food & Kindred Products	20	1,480,572	11.9	730,874	6.5	442,990	2.6	326,641	2.8	-77.9
Coal	11	1,702	-	-	-	-	-	265,930	2.3	-
Non-Metallic Minerals	14	129,278	1.0	122,987	1.1	139,408	0.8	146,608	1.2	13.4
Petroleum Products & Coal Products	29	145,710	1.2	116,362	1.0	239,015	1.4	132,778	1.1	-8.9
Primary Metal Products	33	899,511	7.2	131,405	1.2	245,898	1.5	88,607	0.8	-90.1
Metallic Ores	10	57,011	0.5	78,634	0.7	15,662	0.1	70,500	0.6	23.7
Chemicals & Allied Products	28	80,393	0.6	53,969	0.5	21,552	0.1	34,502	0.3	-57.1

Source: Waterborne Commerce of the United States, Part 5, National Summaries, Table 2B, selected years, U.S. Army Corps of Engineers.

Notes: Export shipments of at least 20,000 tons in 1984. Data is rank-ordered for 1984 only.

Through 1977, foreign shipments of coke were classified in group 33 (WCSC number 3313). These shipments are reclassified in this table in group 29 (WCSC number 2920) in years 1970 and 1975.

Table 21

LEADING GREAT LAKES/OVERSEAS EXPORT COMMODITIES
Calendar Years 1970, 1975, 1980, 1984
(Tons of 2,000 Pounds)

Commodity Group	WCSC Number(s)	1970 Tons	1970 %	1975 Tons	1975 %	1980 Tons	1980 %	1984 Tons	1984 %
Barley, Rye	0102	1,126,836	9.1	186,585	1.6	967,305	5.8	886,536	7.5
Corn	0103	2,802,608	22.6	3,090,146	27.3	6,518,326	38.8	2,911,797	24.8
Oats	0104	235,075	1.9	147,779	1.3	65,326	0.4	-	
Wheat	0107	1,655,617	13.4	3,931,079	34.8	4,069,120	24.2	3,800,781	32.3
Soybeans	0111	2,693,632	21.7	1,736,166	15.3	1,818,774	10.8	1,185,287	10.1
Flaxseeds	0112	51,154	0.4	-	-	-	-	-	
Oilseeds, NEC	0119	-	-	215,084	1.9	1,367,655	8.1	1,127,072	9.6
Fresh, Frozen Vegetables	0141	-	-	-	-	-	-	30,213	0.3
Iron Ore	1011	56,533	0.5	-	-	-	-	-	
Nonferrous Ores, NEC	1091	-	-	73,209	0.6	-	-	40,720	0.3
Coal	1121	-	-	-	-	-	-	265,930	2.3
Clay	1451	113,036	0.9	120,427	1.1	138,979	0.8	96,367	0.8
Salt	1491	-	-	-	-	-	-	49,911	0.4
Meat	2011	41,897	0.3	38,409	0.3	39,013	0.2	46,768	0.4
Tallow	2014	99,952	0.8	48,676	0.4	-	-	-	
Animal By-Products	2015	-	-	52,557	0.5	-	-	-	
Dried Milk	2022	66,176	0.5	-	-	-	-	47,064	0.4
Canned, Preserved Vegetables	2034	69,518	0.6	-	-	-	-	-	
Wheat Flour	2041	83,030	0.7	35,929	0.3	30,949	0.2	32,251	0.3
Animal Feeds	2042	204,007	1.6	60,328	0.5	101,309	0.6	-	
Grain Mill Products	2049	709,651	5.7	401,408	3.5	130,883	0.8	140,567	1.2
Vegetable Oils	2091	-	-	-	-	-	-	46,367	0.4
Logs	2411	-	-	31,527	0.3	46,233	0.3	-	
Basic Chemicals, NEC	2819	39,988	0.3	-	-	-	-	-	
Coke	2920	141,408	1.1	115,272	1.0	238,529	1.4	132,427	1.1
Pig Iron	3311	73,746	0.6	-	-	-	-	-	
Iron & Steel Ingots	3314	532,276	4.3	-	-	68,741	0.4	-	
Iron & Steel Plates, Sheets	3316	182,355	1.5	59,211	0.5	163,345	1.0	48,985	0.4
Iron & Steel Products, NEC	3319	88,000	4.3	-	-	-	-	-	
Machinery, Not Electrical	3511	53,720	0.4	57,012	0.5	30,119	0.2	-	
Motor Vehicles	3711	30,899	0.2	-	-	-	-	-	
Iron & Steel Scrap	4011	878,111	7.1	585,834	5.2	745,496	4.4	696,462	5.9

Source: Waterborne Commerce of the United States, Part 5, National Summaries, Table 2B, selected years, U.S. Army Corps of Engineers.

Notes: Data is reported, by WCSC number, for each export commodity that exceeds 30,000 tons in any selected year.

Through 1977, foreign shipments of coke were classified in WCSC number 3313. These shipments are reclassified in this table in WCSC number 2920 in years 1970 and 1975.

Table 22

LEADING GREAT LAKES/OVERSEAS IMPORT COMMODITY GROUPS
Calendar Years 1970, 1975, 1980, 1984
(Tons of 2,000 Pounds)

<u>Commodity Group</u>	<u>WCS Number(s)</u>	<u>1970 Tons</u>	<u>1975 Tons</u>	<u>1980 Tons</u>	<u>1984 Tons</u>	<u>% Change 1970-1984</u>
Primary Metal Products	33	3,503,323	76.4	2,187,626	65.5	1,200,960
Pulp & Paper	26	13,272	0.3	33,048	1.0	39,472
Chemicals & Allied Products	28	54,379	1.2	119,406	3.6	130,093
Metallic Ores	10	103,544	2.3	99,829	3.0	253,529
Petroleum Products & Coal Products	29	-	-	469,729	14.1	17,588
Non-Metallic Minerals, Except Fuels	14	130,608	2.8	108,140	3.2	42,570
Food & Kindred Products	20	143,886	3.1	49,046	1.5	83,053
Basic Textiles	22	39,247	0.9	13,669	0.4	37,372
Scrap	40	5,773	0.1	43,946	1.3	56,299

Source: Waterborne Commerce of the United States, Part 5, National Summaries, Table 28, selected years, U.S. Army Corps of Engineers.

Notes: Import shipments of at least 30,000 tons in 1984. Data is rank-ordered for 1984 only.

Through 1977, foreign shipments of coke were classified in group 33 (WCS number 3313). These shipments are reclassified in this table in group 29 (WCS number 2920) in years 1970 and 1975.

Table 23

LEADING GREAT LAKES/OVERSEAS IMPORT COMMODITIES
Calendar Years 1970, 1975, 1980, 1984
(Tons of 2,000 Pounds)

Commodity Group	WCSC Number(s)	1970 Tons	1970 %	1975 Tons	1975 %	1980 Tons	1980 %	1984 Tons	1984 %
Crude Rubber	0841	67,557	1.5	-	-	-	-	-	-
Iron Ore	1011	-	-	43,416	1.3	147,274	7.0	47,161	1.0
Clay	1451	41,762	0.9	-	-	-	-	-	-
Sugar	2061	-	-	55,117	1.7	-	-	-	-
Alcoholic Beverages	2081	69,725	1.5	-	-	-	-	30,767	0.6
Basic Textiles	2211	36,835	0.8	-	-	36,251	1.7	30,312	0.6
Veneer, Plywood	2431	66,332	1.4	35,000	1.1	-	-	-	-
Pulp	2611	-	-	-	-	-	-	82,348	1.7
Paper, Paperboard	2631	-	-	-	-	-	-	72,621	1.5
Nitrogenous Chemical Fertilizer	2871	-	-	-	-	114,620	5.5	96,775	2.0
Coke	2920	-	-	462,862	13.9	-	-	90,059	1.8
Glass	3211	36,163	0.8	-	-	-	-	-	-
Iron & Steel Ingots	3314	58,611	1.3	87,244	2.6	-	-	630,491	12.8
Iron & Steel Bars, Rods	3315	704,270	15.4	352,921	10.6	1,110,005	52.8	3,086,518	62.7
Iron & Steel Plates, Sheets	3316	2,431,304	53.0	1,539,748	46.2	-	-	-	-
Iron & Steel Pipe, Tube	3317	112,814	2.5	-	-	-	-	62,475	1.3
Ferroalloys	3318	32,631	0.7	59,420	17.8	154,954	7.4	94,160	1.9
Iron & Steel Products, NEC	3319	104,940	2.3	-	-	-	-	104,589	2.1
Lead, Zinc	3323	37,509	0.8	80,616	2.4	37,357	1.8	73,133	1.5
Fabricated Metal	3411	129,221	2.8	32,461	9.7	-	-	-	-
Machinery, Not Electrical	3511	69,739	1.5	43,630	13.1	-	-	-	-
Motor Vehicles	3711	105,315	2.3	48,871	1.5	-	-	-	-
Nonferrous Metal Scrap	4012	-	-	43,161	1.3	50,357	2.4	32,498	0.7

Source: Waterborne Commerce of the United States, Part 5, National Summaries, Table 2B, selected years, U.S. Army Corps of Engineers.

Notes: Data is reported, by WCSC number, for each import commodity that exceeds 30,000 tons in any selected year.

Through 1977, foreign shipments of coke were classified in WCSC number 3313. These shipments are reclassified in this table in WCSC number 2920 in year 1975.

Table 24

LEADING GREAT LAKES COMMODITY SHIPMENTS
FROM THE U.S. TO CANADA
Calendar Years 1970, 1975, 1980, 1984
(Tons of 2,000 Pounds)

Commodity Group	WCSC Number(s)	1970 Tons	1970 %	1975 Tons	1975 %	1980 Tons	1980 %	1984 Tons	1984 %	% Change 1970-1984
Coal	1121	18,233,975	77.5	16,717,956	69.3	16,783,364	59.4	19,820,865	67.9	8.7
Iron Ore	1011	2,433,004	10.3	2,731,402	11.3	6,317,290	22.3	5,549,571	19.0	128.1
Limestone	1411	1,536,700	6.5	2,962,267	12.3	2,498,899	8.8	1,937,071	6.6	26.1
Coke	2920	242,307	1.0	592,690	2.5	1,206,133	4.3	628,246	2.2	159.3
Salt	1491	197,213	0.8	488,540	2.0	616,567	2.2	492,634	1.7	149.8
Sand, Gravel, Crushed Rock	1442	449,770	1.9	426,586	1.8	34,295	0.1	451,438	1.5	0.4

Source: Waterborne Commerce of the United States, Part 5, National Summaries, Table 2B, selected years, U.S. Army Corps of Engineers.

Notes: Great Lakes shipments from the U.S. to Canada of at least 100,000 tons in 1984. Data is rank-ordered for 1984 only.

This table does not include shipments of bulk grain commodities from the U.S. to Canada. Bulk grain shipped on the Great Lakes from the U.S. to Canada is transshipped to overseas destinations. Grain shipments from the U.S. to Canada are included in Table 20, Leading Great Lakes/Overseas Export Commodity Groups and Table 21, Leading Great Lakes/Overseas Export Commodity Groups.

Table 25

LEADING GREAT LAKES COMMODITY SHIPMENTS
FROM CANADA TO THE U.S.
Calendar Years 1970, 1975, 1980, 1984
(Tons of 2,000 Pounds)

Commodity Group	WCSC Number(s)	1970 Tons	1970 %	1975 Tons	1975 %	1980 Tons	1980 %	1984 Tons	1984 %	% Change 1970-1984
Iron Ore	1011	16,449,380	75.4	12,867,935	71.0	7,620,201	56.8	6,735,584	52.1	-59.1
Salt	1491	1,158,732	5.3	623,853	3.4	1,329,068	9.9	1,604,624	12.4	38.5
Potassic Chemical Fertilizer	2872	-	-	-	-	-	-	1,326,021	10.3	N.A.
Cement	3241	452,863	2.1	769,910	4.2	745,082	5.6	710,242	5.5	56.8
Sand, Gravel, Crushed Rock	1442	1,749,602	8.4	1,354,798	7.5	1,181,263	8.8	638,713	4.9	-63.5
Residual Fuel Oil	2915	342,527	1.6	713,353	3.9	937,915	7.0	482,777	3.7	40.9
Distillate Fuel Oil	2914	7,163	-	596,146	3.3	14,253	0.1	207,623	1.6	2,798.5
Newsprint Paper	2621	449,830	2.1	147,198	0.8	-	-	145,024	1.1	-67.8
Pig Iron	3311	138,770	0.6	117,219	0.6	-	-	125,625	1.0	-9.5
Wheat	0107	11,526	-	-	-	-	-	106,244	0.8	921.8

Source: Waterborne Commerce of the United States, Part 5, National Summaries, Table 2B, selected years, U.S. Army Corps of Engineers.

Notes: Great Lakes shipments from Canada to the U.S. of at least 100,000 tons in 1984. Data is rank-ordered for 1984 only.

Table 26

ILLINOIS FOREIGN AND DOMESTIC WATERBORNE SHIPMENTS
TO/FROM THE PORT OF CHICAGO, WAUKESHA HARBOURS, AND INLAND WATERWAYS
Calendar Years 1970-1983
(Thousands of Tons)

<u>Year</u>	<u>Seaway Overseas Exports/Imports</u>	<u>Canadian Shipments</u>	<u>Lakewise Shipments</u>	<u>Inland Waterway Shipments</u>	<u>Illinois Total</u>	<u>Illinois % of U.S.</u>	<u>Year</u>	<u>Total Deep-Draft</u>	<u>Barge Shipments on Inland Waterways</u>	<u>Total</u>
1970	4,972.5	2,200.3	20,274.3	70,237.2	97,744.4	6.1	1970	26,889.831	21,364.556	48,244,387
1971	5,554.6	2,294.3	18,242.6	69,539.4	95,730.9	6.3	1971	25,557.693	21,872.647	47,430,340
1972	4,998.7	2,315.0	17,624.3	82,971.7	107,909.7	6.7	1972	24,501.209	22,337.050	46,838,259
1973	5,235.9	1,544.4	18,633.6	81,123.7	106,602.6	6.1	1973	24,888.448	22,482.794	47,381,242
1974	3,418.5	1,821.6	16,594.1	85,208.3	107,042.5	6.1	1974	21,359.879	24,525.700	45,885,579
1975	3,065.2	1,555.1	14,539.5	90,675.2	109,835.0	6.5	1975	18,817.910	23,771.148	42,589,058
1976	3,679.5	3,184.1	13,314.0	89,937.3	110,175.5	6.0	1976	19,726.259	20,848.265	40,574,524
1977	3,868.2	2,275.9	11,432.7	84,812.0	102,438.8	5.4	1977	17,149.665	18,986.483	36,136,148
1978	4,728.7	2,910.3	15,395.7	78,752.8	101,787.5	5.0	1978	22,555.967	17,134.755	39,690,722
1979	4,877.7	3,637.8	13,503.6	78,918.8	100,937.9	4.9	1979	21,474.746	17,218.242	38,692,968
1980	2,088.7	2,263.9	9,380.1	89,447.3	103,480.0	5.2	1980	13,746.350	19,246.894	32,993,244
1981	2,329.7	3,753.8	8,341.6	80,235.6	94,661.7	4.9	1981	14,214.078	17,385.089	31,599,167
1982	1,943.0	2,708.7	6,085.2	79,266.8	90,003.7	5.1	1982	10,622.791	16,196.992	26,819,783
1983	1,234.4	2,558.6	4,904.0	81,571.9	90,278.9	5.3	1983	8,514.792	15,939.495	24,454,287
							1984	10,534.016	13,279.352	23,813,368

Table 27

DEEP-DRAFT AND INLAND WATERWAY SHIPMENTS AT THE PORT OF CHICAGO
Calendar Years 1980-1984
(Tons of 2,000 Pounds)

<u>Year</u>	<u>Barge Shipments on Inland Waterways</u>	<u>Total</u>
1980	21,364.556	48,244,387
1981	25,557.693	47,430,340
1982	24,501.209	46,838,259
1983	22,337.050	47,381,242
1984	22,482.794	45,885,579

Source: Waterborne Commerce of the United States, Part 3,
Waterways and Harbors Great Lakes, selected years, U.S.
Army Corps of Engineers.

Table 28

DEEP-DRAFT SHIPMENTS AT THE PORT OF CHICAGO
Calendar Years 1970-1984
(tons of 2,000 Pounds)

<u>Year</u>	<u>Overseas Exports</u>	<u>Canada Exports</u>	<u>Canada Imports</u>	<u>Lakewise Shipments</u>	<u>Total Deep-Draft</u>
1970	3,483,839	1,488,808	338,767	1,861,520	7,479,335
1971	3,421,909	2,232,562	440,567	1,808,779	6,604,987
1972	2,882,237	2,115,425	323,643	1,991,345	6,171,221
1973	3,790,735	1,505,155	440,898	1,103,501	6,206,660
1974	2,183,540	1,234,958	445,757	1,375,876	5,082,249
1975	2,276,578	789,577	445,943	1,109,126	4,735,289
1976	2,451,681	1,228,015	422,542	2,761,515	3,845,412
1977	1,876,010	1,992,179	695,068	1,580,817	3,702,011
1978	2,694,337	2,034,376	571,779	2,338,503	4,446,318
1979	2,973,450	1,904,286	725,530	2,912,318	3,362,839
1980	1,427,030	661,650	991,865	1,277,082	2,612,428
1981	1,480,749	848,922	746,953	3,006,858	2,144,036
1982	995,483	947,501	398,905	2,309,751	2,815,718
1983	262,702	971,700	539,510	2,029,061	1,851,037
1984	442,958	1,596,783	353,223	2,085,304	1,898,560

Source: Waterborne Commerce of the United States, Part 3, Waterways and Harbors, Great Lakes, selected years, U.S. Army Corps of Engineers.

Notes: Shipments of corn, wheat, oats and soybeans to Canada, designated by the Corps of Engineers as Canada Exports, are included in this table as Foreign Exports. These grain cargoes are transshipped to overseas destinations.

Deep-draft terminals are located in Lake Calumet and on the Calumet River and Chicago River.

Source: Illinois Department of Commerce and Community Affairs.

Note: The decline in the number of containers handled at the Port of Chicago from 1972 to 1975 was the result of a general decline in Great Lakes vessel service along with intensive development of container terminals on other coasts and the introduction of larger container vessels that were not Seaway-sized. The increase in container traffic at the Port of Chicago in 1977 was the result of the short-lived container service operated by Great Lakes European Line which offered direct service to Europe every 7 days. Following the discontinuance of Great Lakes European Line after the 1978 season, weekly container feeder service was provided in 1979 and 1980 between the Great Lakes and Montreal by Manchester Lines. This feeder service was discontinued at the end of the 1980 shipping season.

Table 29

CONTAINER SHIPMENTS AT THE PORT OF CHICAGO
(Calendar Years 1972-1985
(Twenty-Foot Equivalent Units)

<u>Year</u>	<u>Number of TEU</u>
1972	12,529
1973	11,904
1974	2,313
1975	1,651
1976	6,393
1977	12,996
1978	9,555
1979	8,093
1980	6,072
1981	2,041
1982	2,114
1983	1,383
1984	4,840
1985	3,905

Table 30

PL 480, TITLE 11 SHIPMENTS
FROM THE U.S., GREAT LAKES AND THE PORT OF CHICAGO
(Calendar Years 1980-1986
(tons of 2,000 Pounds)

<u>Year</u>	<u>Total U.S. Tons</u>	<u>Great Lakes Tons</u>	<u>Great Lakes % of U.S.</u>	<u>Chicago Tons</u>	<u>Chicago % of Great Lakes</u>
1980	1,113,694	179,712	16.1	32,890	18.3
1981	1,179,365	263,203	22.3	48,400	18.4
1982	1,226,237	335,177	27.3	57,480	17.3
1983	1,425,865	340,149	23.9	28,195	8.3
1984	1,703,870	276,020	16.2	7,040	2.6
1985	2,184,223	315,064	14.4	5,364	1.7
1986	1,724,632	259,633	15.1	0	0

Source: Great Lakes Commission reports.

Notes: The decline in shipments from the Port of Chicago is attributed to lower port productivity, higher terminal transfer charges and higher rail rates than at competing Great Lakes ports and to decisions by some steamship companies to not bid for PL 480 cargoes at the Port of Chicago, or, in cases, to add a differential charge for calling at Chicago.

Table 31

PORT OF CHICAGO SHIPMENTS
TO/FROM FACILITIES OWNED BY AND ON LANDS LEASED FROM
ILLINOIS INTERNATIONAL (CHICAGO) PORT DISTRICT
(Calendar Years 1973-1986
(tons of 2,000 Pounds)

<u>Year</u>	<u>Tons</u>
1973	2,232,025
1974	1,279,831
1975	1,212,810
1976	1,457,630
1977	1,474,210
1978	1,515,791
1979	1,679,007
1980	549,348
1981	979,257
1982	835,175
1983	1,215,316
1984	2,146,033
1985	1,878,508
1986	1,939,166

Source: Illinois International Port District (IIPD).

Note: Facilities in the Port of Chicago that are owned by the IIPD include the Iroquois Landing Lakefront Terminal at the mouth of the Calumet River, Transit Sheds 1, 2 and 3 in Lake Calumet, and two grain elevators in Lake Calumet. Facilities operating on land leased from the IIPD in Lake Calumet, as of 1986, included Stoil Terminals, EmES Co Terminal, International Salt, CERES Lake Calumet, Mississippi Lime Company and Medusa Cement Company.

The tons handled at port district and private facilities include overseas, Canadian, lakewise and inland waterway shipments.

Table 32

LEADING OVERSEAS COMMODITY EXPORTS FROM THE PORT OF CHICAGO
 Calendar Years 1970, 1975, 1980, 1984
 (Tons of 2,000 Pounds)

Commodity	WCSC Number	1970 Tons	1970 %	1975 Tons	1975 %	1980 Tons	1980 %	1984 Tons	1984 %
Corn	0103	1,151,061	33.0	1,185,434	52.1	738,812	51.8	93,053	21.0
Wheat	0107	39,307	1.1	-	-	-	-	66,063	14.9
Soybeans	0111	882,406	25.3	391,245	17.2	133,889	9.4	111,381	25.1
Clay	1451	110,074	3.2	119,599	5.3	138,746	9.7	79,633	18.0
Tallow, Animal Oils	2014	37,540	1.1	11,059	0.5	43,867	3.1	-	-
Animal Byproducts	2015	75,459	2.2	-	-	-	-	-	-
Wheat Flour	2041	21,686	0.6	13,038	0.6	14,870	1.0	-	-
Prepared Animal Feeds	2042	26,160	0.8	29,869	1.3	-	-	-	-
Grain Mill Products	2049	525,040	15.1	279,158	12.3	17,219	1.2	-	-
Coke	2920	14,795	0.4	97,673	4.3	210,165	14.7	46,514	10.5
Pig Iron	3311	16,209	0.5	-	-	-	-	-	-
Iron & Steel Ingots	3314	237,167	6.8	-	-	-	-	-	-
Iron & Steel Bars, Rods	3315	-	-	27,465	1.2	-	-	-	-
Iron & Steel Plates, Sheets	3316	73,768	2.1	26,327	1.2	98,865	6.9	-	-
Iron & Steel Products, NEC	3319	41,969	1.2	-	-	-	-	-	-
Fabricated Metal, Machinery, Transport Equipment, Other Manufactured Products	34,35 36,37 36,39	19,475	1.8	-	-	-	-	-	-
Iron & Steel Scrap	4011	127,779	3.7	12,902	0.6	-	-	22,605	5.1

Source: Waterborne Commerce of the United States, Part 3, Waterways and Harbors Great Lakes, selected years, U.S. Army Corps of Engineers.

Notes: Data is reported, by WCSC number, for each export commodity that exceeds 10,000 tons in any selected year.

Overseas exports include Canadian Exports of grain. Grains shipped to Canada are transshipped to overseas destination.

Through 1977, foreign shipments of coke were classified in WCSC number 3313. These shipments are reclassified in this table in WCSC number 2920 in years 1970 and 1975.

Table 33

LEADING OVERSEAS COMMODITY IMPORTS TO PORT OF CHICAGO
Calendar Years 1970, 1975, 1980, 1984
(Tons of 2,000 Pounds)

Commodity	WCSC Number	1970 Tons	1970 %	1975 Tons	1975 %	1980 Tons	1980 %	1984 Tons	1984 %	
Iron Ore	1011	-		-		85,077	12.9	-		
Alcoholic Beverages	2081	32,200	2.2	-		12,420	1.8	12,760	0.8	
Basic Chemicals, NEC	2819	13,235	0.9	-		-		-		
Nitrogenous Chemical Fertilizer	2871	-		-		-		19,290	1.2	
Glass & Glass Products	3211	11,551	0.8	-		-		-		
Coke	2920	-		108,595	13.8	17,535	2.7	-		
Iron & Steel Ingots	3314	-		21,067	2.7	-				
Iron & Steel Bars, Rods	3315	163,347	11.0	77,436	9.8	437,741	66.2	1,394,204	87.3	
Iron & Steel Plates, Sheets	3316	983,723	66.1	463,170	58.7	-		-		
Iron & Steel Pipe, Tube	3317	36,327	2.4	-		-		39,826	2.5	
Ferroalloys	3318	-		-		28,076	4.2	-		
Iron & Steel Products, NEC	3319	61,650	4.1	-		-		-		
Lead & Zinc	3323	11,342	0.8	10,423	1.3	10,182	1.5	13,997	0.9	
Aluminum	3324	-		-		-		16,606	1.0	
Fabricated Metal, Machinery Transport Equipment, Other Manufactured Products		34,35,36 37,38,39	139,091	9.3	47,238	6.0	24,528	3.7	30,835	1.9

Source: Waterborne Commerce of the United States, Part 3, Waterways and Harbors Great Lakes, selected years, U.S. Army Corps of Engineers.

Notes: Data is reported, by WCSC number, for each import commodity that exceeds 10,000 tons in any selected year.

Through 1977, foreign shipments of coke were classified in WCSC number 3313. These shipments are reclassified in this table in WCSC number 2920 in year 1975.

Table 34

LEADING COMMODITY EXPORTS TO CANADA FROM THE PORT OF CHICAGO
Calendar Years 1970, 1975, 1980, 1984
(Tons of 2,000 Pounds)

Commodity	WCSC Number	1970 Tons	1970 %	1975 Tons	1975 %	1980 Tons	1980 %	1984 Tons	1984 %
Coal	1121	21,156	6.2	41,657	9.3	-		-	
Sand, Gravel, Crushed Rock	1442	-		-		-		-	
Clay	1451	139,657	41.2	19,577	4.4	67,891	6.8	-	
Grain Mill Products	2049	24,292	7.2	-		-		-	
Lubricating Oil & Greases	2916	-		-		16,067	1.6	-	
Coke	2920	145,065	42.8	358,033	80.3	874,999	88.2	351,265	99.4
Iron & Steel Ingots	3314	-		-		14,550	1.5	-	
Ferroalloys	3318	-		14,331	3.2	-		-	

Source: Waterborne Commerce of the United States, Part 3, Waterways and Harbors Great Lakes, selected years, U.S. Army Corps of Engineers.

Notes: Data is reported, by WCSC number, for each export commodity that exceeds 10,000 tons in any selected year.

Through 1977, foreign shipments of coke were classified in WCSC number 3313. These shipments are reclassified in this table in WCSC number 2920 in years 1970 and 1975.

Table 35

LEADING COMMODITY IMPORTS FROM CANADA TO THE PORT OF CHICAGO
 Calendar Years 1970, 1975, 1980, 1984
 (Tons of 2,000 Pounds)

<u>Commodity</u>	<u>WCSC Number</u>	<u>1970 Tons</u>	<u>1970 %</u>	<u>1975 Tons</u>	<u>1975 %</u>	<u>1980 Tons</u>	<u>1980 %</u>	<u>1984 Tons</u>	<u>1984 %</u>
Barley & Rye	0102	27,359	1.5	-	-	-	-	-	-
Iron Ore	1011	1,222,888	65.7	928,577	83.7	432,465	38.7	703,451	33.7
Aluminum Ore	1051	11,913	0.6	-	-	-	-	-	-
Nonferrous Ores, NEC	1091	56,575	3.0	-	-	-	-	-	-
Petroleum	1311	-	-	-	-	-	-	143,018	6.9
Sand, Gravel, Crushed Rock	1442	28,759	1.5	-	-	-	-	-	-
Non-Metallic Minerals, NEC	1499	246,951	13.3	32,418	2.9	447,820	35.2	514,935	24.7
Vegetable Oils	2091	-	-	-	-	-	-	12,574	0.6
Newsprint Paper	2621	200,561	10.8	59,915	5.4	-	-	-	-
Paper & Paperboard	2631	-	-	-	-	38,625	3.0	-	-
Crude Tar	2811	-	-	-	-	11,951	0.9	34,093	1.5
Alcohols	2813	-	-	-	-	-	-	11,925	0.6
Benzene & Toluene	2817	-	-	-	-	-	-	54,865	2.6
Basic Chemicals, NEC	2819	-	-	16,214	1.5	116,507	9.2	63,534	3.0
Potassic Chemical Fertilizer	2872	-	-	-	-	-	-	257,421	12.3
Phosphatic Chemical Fertilizer	2873	-	-	-	-	113,814	8.9	-	-
Miscellaneous Chemical Products	2891	-	-	-	-	31,169	2.5	-	-
Distillate Fuel Oil	2914	-	-	-	-	-	-	36,413	1.7
Residual Fuel Oil	2915	-	-	-	-	-	-	138,989	6.7
Naphtha	2917	-	-	-	-	-	-	14,909	0.7
Asphalt	2918	-	-	-	-	-	-	77,585	3.7
Building Cement	3241	-	-	13,515	1.2	-	-	-	-
Pig Iron	3311	45,958	2.5	20,357	1.8	-	-	-	-
Ferroalloys	3318	-	-	-	-	12,224	1.0	-	-
Aluminum	3324	-	-	12,798	1.2	-	-	-	-

Source: Waterborne Commerce of the United States, Part 3, Waterways and Harbors Great Lakes, selected years,
 U.S. Army Corps of Engineers.

Notes: Data is reported, by WCSC number, for each import commodity that exceeds 10,000 tons in any selected year.

The decline in shipments of iron ore from Canada to the Port of Chicago is attributed to the decline in steel production and the closure of steel mills in Chicago.

Table 36

LEADING LAKEWISE COMMODITY SHIPMENTS FROM THE PORT OF CHICAGO TO U.S. GREAT LAKES PORTS
 Calendar Years 1970, 1975, 1980, 1984
 (Tons of 2,000 Pounds)

<u>Commodity</u>	<u>MCSC Number</u>	<u>1970 Tons</u>	<u>1970 %</u>	<u>1975 Tons</u>	<u>1975 %</u>	<u>1980 Tons</u>	<u>1980 %</u>	<u>1984 Tons</u>	<u>1984 %</u>
Wheat	0107	87,766	1.1	13,104	0.3	-	-	-	-
Iron Ore	1011	-	-	180,842	3.8	-	-	-	-
Coal	1121	6,318,530	84.5	4,039,114	85.3	2,275,331	87.1	1,606,165	84.6
Sand, Gravel, Crushed Rock	1442	28,551	0.4	120,295	2.5	-	-	-	-
Non-Metallic Minerals, NEC	1499	52,356	0.7	-	-	-	-	-	-
Alcohols	2813	-	-	33,065	0.7	-	-	-	-
Benzene & Toluene	2817	29,577	0.4	34,955	0.7	-	-	-	-
Basic Chemicals, NEC	2819	-	-	-	-	53,598	2.1	-	-
Nitrogenous Chemical Fertilizer	2871	-	-	-	-	-	-	21,002	1.1
Fertilizer, NEC	2879	56,536	0.9	-	-	-	-	-	-
Gasoline	2911	194,953	2.6	-	-	-	-	31,593	1.7
Jet Fuel	2912	-	-	-	-	-	-	20,249	1.1
Distillate Fuel Oil	2914	189,781	2.5	26,553	0.6	62,052	2.4	-	-
Residual Fuel Oil	2915	305,846	4.1	183,233	3.9	24,051	0.9	38,840	2.0
Naphtha	2917	-	-	-	-	12,198	0.5	-	-
Asphalt	2918	-	-	-	-	-	-	21,877	1.2
Coke	2920	-	-	-	-	-	-	137,275	7.2
Structural Clay Products	3251	50,471	0.7	-	-	-	-	-	-
Pig Iron	3311	28,127	0.4	-	-	-	-	-	-
Iron & Steel Products, NEC	3319	23,273	0.3	-	-	-	-	-	-
Iron & Steel Scrap	4011	17,632	0.2	12,535	0.3	10,921	0.4	-	-

Source: Waterborne Commerce of the United States, Part 3, Waterways and Harbors Great Lakes, selected years, U.S. Army Corps of Engineers.

Notes: Data is reported, by MCSC number, for each lakewise shipment that exceeds 10,000 tons in any selected year.

The decline in coal shipments from the Port of Chicago to other U.S. ports on the Great Lakes is attributed to the lessening demand by utilities for high sulfur Illinois basin coal, which has been replaced by low sulfur western coal.

Table 37

LEADING LAKEWISE COMMODITY SHIPMENTS FROM U.S. GREAT LAKES PORTS TO THE PORT OF CHICAGO
 Calendar Years 1970, 1975, 1980, 1984
 (Tons of 2,000 Pounds)

Commodity	MCSC Number	1970 Tons	1970 %	1975 Tons	1975 %	1980 Tons	1980 %	1984 Tons	1984 %
Wheat	0107	22,410	0.2	-	-	-	-	-	-
Iron Ore	1011	8,330,077	68.2	6,460,322	68.3	3,833,891	56.6	1,848,247	44.5
Coal	1121	-	-	-	-	-	-	231,091	5.5
Limestone	1411	2,273,605	18.5	1,498,007	15.8	1,305,948	19.3	1,061,853	25.5
Sand, Gravel, Crushed Rock	1442	36,335	0.3	29,300	0.3	-	-	-	-
Non-Metallic Minerals, NEC	1499	58,246	0.5	248,177	2.6	25,863	0.4	212,418	5.1
Sodium Hydroxide	2810	-	-	11,145	0.1	-	-	-	-
Alcohols	2813	-	-	20,176	0.2	-	-	-	-
Benzene, Toluene	2817	-	-	-	-	17,037	0.3	-	-
Basic Chemicals, NEC	2819	63,997	0.5	91,005	1.0	301,876	4.5	247,363	6.0
Gasoline	2911	84,744	0.7	20,695	0.2	-	-	22,497	0.5
Jet Fuels	2912	-	-	-	-	-	-	13,138	0.3
Kerosene	2913	-	-	-	-	-	-	11,839	0.3
Distillate Fuel Oil	2914	295,373	2.4	180,199	1.9	129,249	1.9	135,752	3.3
Residual Fuel Oil	2915	590,155	5.6	822,001	6.6	716,045	10.6	181,626	4.4
Lubricating Oil	2916	10,241	-	-	-	-	-	-	-
Naphtha	2917	-	-	-	-	165,976	2.5	-	-
Asphalt, Tar	2918	43,552	0.4	-	-	43,737	0.6	10,425	0.3
Coke	2920	-	-	-	-	10,001	0.1	-	-
Cement	3241	173,911	1.4	155,637	1.7	135,797	2.0	161,414	3.9
Slag	3312	14,952	0.1	46,577	0.5	-	-	-	-
Iron & Steel Plates, Sheets	3316	83,852	0.7	53,490	0.6	23,317	0.3	-	-
Iron & Steel Products, NEC	3319	-	-	-	-	17,200	0.3	-	-

Source: Waterborne Commerce of the United States, Part 3, Waterways and Harbors Great Lakes, selected years, U.S. Army Corps of Engineers.

Notes: Data is reported, by MCSC number, for each lakewise shipment that exceeds 10,000 tons in any selected year.

The decline in shipments of iron ore and limestone from other U.S. Great Lakes ports to the Port of Chicago is attributed to the decline in steel production and the closure of steel mills in Chicago.

Table 38

LAKEWISE COMMODITY SHIPMENTS TO WAUKEGAN HARBOR
Calendar Years 1970-1984
(Tons of 2,000 Pounds)

Commodity (WMSC Number)	<u>Year</u>	<u>Cement (1241)</u>	<u>Gypsum (1431)</u>	<u>Other</u>	<u>Total</u>
	1970	325,221	140,738	91,472	557,431
	1971	390,859	194,857	3,140	588,866
	1972	282,193	153,974	537	436,710
	1973	357,424	232,845	166	590,436
	1974	331,685	142,474	175	474,335
	1975	203,422	138,118	241	341,781
	1976	254,399	197,063	13	451,497
	1977	281,214	195,938	5	477,157
	1978	239,845	238,887	0	478,733
	1979	329,537	214,708	6	544,281
	1980	161,724	124,619	20	286,353
	1981	130,024	81,000	25	211,049
	1982	113,997	0	36	114,033
	1983	155,913	36,237	33	192,183
	1984	125,485	157,577	8	343,149

Source: Waterborne Commerce of the United States, Part 3, Waterways and Harbors Great Lakes, Selected Years, U.S. Army Corps of Engineers.
Note: Waukegan Harbor receives shipments from other U.S. Great Lakes ports, but cargoes are not shipped from Waukegan Harbor. Waukegan has one commercial slip which has two terminal facilities, both of which are operated by National Gypsum Company.

Table 39

ILLINOIS BARGE SHIPMENTS BY RIVER
Calendar Years 1970-1983
(Thousands of Tons)

Commodity (WMSC Number)	<u>Year</u>	<u>Illinois</u>	<u>Mississippi</u>	<u>Ohio</u>	<u>Kaskaskia</u>	<u>Total</u>
	1970	45,721.1	16,394.2	8,181.7	-	70,297.0
	1971	47,007.3	15,671.3	6,920.8	-	69,599.4
	1972	52,908.8	22,450.3	7,612.3	-	82,971.4
	1973	56,095.0	18,335.1	6,693.4	-	81,123.5
	1974	57,797.5	20,954.2	6,240.4	216.3	85,208.4
	1975	60,001.8	23,253.9	7,224.6	194.8	90,875.1
	1976	58,635.3	23,563.0	7,209.8	589.5	89,997.6
	1977	52,448.8	20,286.7	10,789.4	1,286.8	84,811.7
	1978	46,690.2	16,934.9	13,295.2	1,833.0	78,753.3
	1979	45,070.4	18,739.8	13,385.0	1,723.5	78,918.7
	1980	51,145.4	23,939.9	12,316.7	2,045.6	89,447.6
	1981	45,319.1	20,400.4	11,776.6	2,704.6	80,200.7
	1982	45,708.9	19,700.6	10,669.3	3,188.4	79,267.2
	1983	46,708.9	21,588.9	10,771.3	2,503.1	81,572.2

Source: Corps of Engineers' deck-to-dock computer tapes.

Notes: Total barge shipments included barge loadings of cargoes shipped to destinations outside of Illinois, barge receipts of cargoes shipped to Illinois, and barge loadings and barge receipts of cargoes shipped between river terminals within Illinois.

Table 40

ILLINOIS BARGE LOADINGS BY RIVER
[Calendar Years 1970-1983
(Thousands of Tons)]

<u>Year</u>	<u>Illinois</u>	<u>Mississippi</u>	<u>Ohio</u>	<u>Kaskaskia</u>	<u>Total</u>
1970	21,073.1	12,305.8	5,024.2	-	38,403.1
1971	22,139.1	10,887.4	4,201.3	-	37,221.8
1972	27,014.8	17,986.3	4,463.5	-	49,464.6
1973	29,060.7	15,348.3	3,946.7	-	48,355.7
1974	28,584.7	18,000.9	3,624.5	0	50,210.1
1975	31,420.6	20,683.2	4,112.6	0	56,216.4
1976	31,528.0	20,060.7	4,115.5	458.8	56,163.0
1977	28,613.3	17,223.1	7,941.5	1,166.3	54,964.2
1978	26,897.2	14,273.9	9,898.6	1,413.2	52,482.9
1979	26,119.0	15,302.6	9,599.7	1,713.2	52,734.5
1980	32,405.9	20,980.4	10,112.2	2,045.6	65,545.1
1981	28,718.6	17,211.8	9,530.0	2,699.1	56,159.5
1982	30,633.3	15,506.4	8,319.9	3,132.1	57,591.7
1983	30,279.5	16,657.6	7,792.4	2,501.9	57,231.4

Source: Corps of Engineers' dock-to-dock computer tapes.

Table 41

ILLINOIS BARGE RECEIPTS BY RIVER
[Calendar Years 1970-1983
(Thousands of Tons)]

<u>Year</u>	<u>Illinois</u>	<u>Mississippi</u>	<u>Ohio</u>	<u>Kaskaskia</u>	<u>Total</u>
1970	24,648.0	4,068.4	3,157.5	-	31,893.9
1971	24,868.2	4,769.9	2,719.5	-	32,377.6
1972	25,994.0	4,464.0	3,148.8	-	33,506.8
1973	27,034.3	2,986.8	2,746.7	-	32,767.8
1974	29,212.8	2,953.3	2,615.9	216.3	34,998.3
1975	28,581.2	2,570.7	3,112.0	194.8	34,458.7
1976	27,107.3	3,502.2	3,094.3	130.8	33,834.6
1977	23,835.5	3,063.6	2,847.9	100.5	29,847.5
1978	19,793.0	2,661.0	3,396.6	419.8	26,270.4
1979	18,951.4	3,437.2	3,785.3	10.3	26,184.2
1980	18,738.5	2,959.5	2,204.5	0	23,902.5
1981	16,600.5	3,188.5	2,246.6	5.6	22,041.2
1982	15,075.6	4,194.2	2,349.4	56.3	21,675.5
1983	16,429.4	4,931.3	2,978.9	1.2	24,340.8

Source: Corps of Engineers' dock-to-dock computer tapes.

Table 43

**ILLINOIS BARGE SHIPMENTS BY COMMODITY GROUP
Calendar Years 1970-1983**

Table 42

**ILLINOIS INLAND WATERWAY BARGE SHIPMENTS
AS A PERCENT OF
TOTAL U.S. BARGE SHIPMENTS ON INLAND AND INTRACOASTAL WATERWAYS
Calendar Years 1970-1983**
(Thousands of Tons)

Table 44

ILLINOIS BARGE LOADINGS BY COMMODITY GROUP
Calendar Years 1970-1983
 (Thousands of Tons)

Group	1970	1971	1972	1973	1974	1975	1976	Total
01	9,345.9	9,491.5	13,953.7	13,512.7	12,180.9	16,222.6	18,938.9	38,000.0
09	0.8	437.0	453.0	326.0	0.0	0.0	237.0	1,000.0
10	61.7	17.2	5.2	2.1	16.9	34.0	53.3	93.0
11	12,025.7	11,257.0	17,278.4	15,436.1	16,337.2	18,921.6	15,300.5	120,000.0
13	19.7	0.0	79.2	0.0	240.0	93.5	127.0	0.0
14	4,950.4	4,957.0	4,678.5	5,273.4	4,807.1	4,708.2	4,488.4	20,000.0
20	981.3	1,042.1	1,020.3	1,142.8	1,442.3	1,339.2	2,848.3	10,000.0
24	1.6	1.8	4.6	4.4	18.4	25.3	22.0	0.0
26	0.0	0.0	0.0	0.0	1.1	0.7	0.0	0.0
28	565.5	700.4	746.2	612.4	600.6	642.4	817.5	51.8
29	7,556.8	6,798.1	6,867.8	7,722.8	8,826.5	8,552.5	9,504.4	26.0
30	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	738.2	893.5	1,148.1	569.7	398.2	334.0	610.8	32.0
33	670.5	648.3	623.5	753.4	1,467.3	862.9	1,036.6	33.0
34	12.5	93.1	27.5	7.2	11.2	11.9	10.1	34.0
35	29.7	6.7	3.0	3.6	2.2	7.0	9.3	35.0
36	0.2	0.0	0.0	0.0	0.0	0.0	1.0	0.0
37	26.9	0.6	1.5	0.5	0.0	4.9	5.0	3.8
40	268.0	606.0	2,565.0	2,675.0	3,846.8	2,147.2	3,846.8	39.0
41	270.5	251.4	8.3	314.1	7.8	3.8	6.3	40.0
Total	38,403.1	37,221.8	49,464.6	48,355.7	50,210.1	56,216.4	56,163.0	41.0
Group	1977	1978	1979	1980	1981	1982	1983	Total
01	18,550.0	17,133.9	16,262.8	19,273.8	19,131.5	22,792.3	21,356.7	31,893.9
09	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	86.2	27.2	17.4	5.2	6.4	4.0	1.5	0.0
11	16,441.2	14,967.5	15,960.4	23,282.6	19,333.8	14,215.7	13,982.5	91.0
13	108.9	151.9	135.4	36.5	67.5	420.5	455.5	10.0
14	4,514.0	4,452.4	4,805.9	4,584.8	3,601.4	4,406.5	4,557.5	11.0
20	2,668.8	3,386.2	3,999.1	5,214.6	4,459.4	5,250.0	6,340.1	13.0
24	25.5	0.8	14.4	22.8	22.0	8.7	4.1	14.0
26	0.0	0.8	0.0	16.7	0.0	0.0	0.0	20.0
28	719.4	699.8	685.8	889.2	817.3	757.7	1,191.2	22.0
29	9,191.6	8,726.1	8,213.9	8,400.2	6,861.7	6,674.6	6,320.9	24.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.0
32	693.9	653.1	858.9	613.4	735.0	800.5	883.5	29.0
33	933.2	888.8	1,022.6	715.4	624.2	288.3	327.2	30.0
34	4.8	1.1	7.5	8.0	6.0	18.6	3.5	32.0
35	14.3	4.9	23.2	34.7	8.8	3.1	1.1	33.0
36	0.2	1.1	0.5	0.0	0.0	0.6	0.0	34.0
37	4.6	11.3	0.1	1.1	0.0	0.6	0.2	35.0
49	955.6	1,370.9	724.9	2,438.5	2,220.2	1,584.4	725.8	35.0
4	51.8	5.1	1.7	0.6	0.6	111.6	299.0	37.0
Total	54,964.2	52,482.9	52,734.5	65,545.1	58,159.5	57,591.7	57,231.4	41.0

Table 45

ILLINOIS BARGE RECEIPTS BY COMMODITY GROUP
 Calendar Years 1970-1983
 (Thousands of Tons)

Group	1970	1971	1972	1973	1974	1975	1976	Total
Group	1970	1971	1972	1973	1974	1975	1976	Total
01	613.6	737.7	473.3	355.0	493.4	509.1	447.5	5,091.1
09	0.9	1.2	0.6	0.6	4.0	0.1	0.3	0.3
10	163.7	185.2	19.6	62.4	121.5	123.0	125.8	1,125.8
11	9,735.8	7,955.4	7,673.7	8,615.8	8,302.7	9,200.8	8,102.2	8,160.9
13	11	0.0	0.0	0.0	0.0	208.1	4.5	6,734.1
14	13	126.5	7,817.7	7,677.3	8,168.9	7,632.4	7,538.6	6,925.0
20	20	518.9	506.9	481.7	500.9	466.4	356.4	3,525.0
24	22	0.0	0.3	1.0	0.8	0.0	0.0	0.0
26	24	51.8	74.2	44.5	61.0	40.8	92.5	92.5
28	26	54.4	66.8	38.8	27.4	38.7	69.2	32.8
29	28	3,303.7	3,555.3	3,793.8	3,241.2	3,762.3	3,763.0	4,129.7
30	29	8,634.6	8,855.5	8,321.2	7,543.5	7,863.8	6,932.1	6,847.6
31	30	32	1,053.9	1,459.6	821.6	836.8	757.1	928.2
32	32	561.3	748.8	757.1	757.1	1,183.5	1,092.5	1,215.4
33	34	26.5	87.7	23.1	29.9	18.3	21.1	21.1
35	35	25.7	9.9	8.7	5.1	7.0	11.1	9.5
36	36	25.3	0.3	0.1	1.2	0.8	2.3	3.2
37	37	49.5	26.8	4.9	5.1	5.9	6.1	7.7
40	38	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	40	148.1	736.4	2,667.2	2,539.0	3,961.9	3,868.8	2,221.6
Total	41	66.9	71.9	25.9	15.3	21.1	164.7	228.8
Group	1977	1978	1979	1980	1981	1982	1983	Total
Group	1977	1978	1979	1980	1981	1982	1983	Total
01	31,893.9	32,377.6	33,506.8	32,767.8	34,998.3	34,458.7	33,834.6	31,893.9
09	0.1	339.9	488.7	627.0	508.3	584.3	491.6	541.9
10	20	493.2	432.8	399.2	354.4	417.1	343.0	287.7
11	0.9	0.3	0.1	1.6	1.6	0.3	0.1	1.3
13	0.9	144.1	169.0	169.0	169.0	169.0	169.0	169.0
14	11	6,617.3	5,831.5	6,222.8	6,540.6	6,454.0	5,369.5	7,024.7
20	13	6,653.3	5,522	37.5	11.5	44.4	312.1	845.9
24	14	6,704.7	6,486.5	6,569.3	5,981.7	4,064.7	5,517.6	5,254.0
26	20	493.2	432.8	399.2	354.4	417.1	343.0	287.7
28	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	24	85.2	37.3	43.2	24.8	21.0	21.0	27.9
30	26	25.0	29.0	36.2	21.8	23.6	35.4	35.4
31	28	4,111.7	3,980.9	3,592.0	3,709.7	3,348.6	2,907.1	3,355.7
32	32	3.7	3.7	3.7	3.7	1.8	1.8	1.8
33	30	904.8	6,936.7	6,580.3	5,352.3	4,790.7	5,321.6	5,133.0
34	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	33	1,929.7	532.9	798.7	642.5	667.9	678.7	644.8
36	34	1,223.8	818.4	962.9	461.4	393.3	340.4	516.5
37	35	316.4	21.3	23.3	13.4	9.9	8.6	8.6
49	36	32.3	32.3	4.2	4.2	1.8	1.8	17.2
4	41	177.1	155.4	5.1	5.0	0.2	0.2	0.0
Total	29,847.5	26,270.4	26,184.2	23,902.5	22,041.2	21,675.5	24,340.8	298.6

Table 46

ILLINOIS PERCENT OF U.S. BARGE SHIPMENTS
ON INLAND AND INTRACOASTAL WATERWAYS,
BY LEADING COMMODITY GROUPS,
Calendar Years 1970, 1975, 1980, 1983

Commodity Group	MCSC Number	1970	1975	Percent of U.S.	1980	1983
Farm Products	01	40.7	42.3	32.6	31.5	
Coal	11	19.1	22.0	21.6	15.9	
Non-Metallic Minerals	14	15.0	16.0	14.8	17.0	
Except Fuels						
Food & Kindred Products	20	28.6	28.1	38.4	43.0	
Chemicals & Allied Products	28	12.8	14.4	11.9	11.7	
Petroleum Products & Coal Products	29	12.3	8.6	8.1	8.0	
Stone, Clay & Concrete Products	32	24.5	23.1	25.0	22.7	
Primary Metal Products	33	17.3	26.6	15.1	15.5	
Total		84,811.7	78,753.3	78,918.7	89,447.6	

ILLINOIS BARGE SHIPMENTS BY PORT RANGE
Calendar Years 1970-1983
(Thousands of Tons)

Port Range	1970	1971	1972	1973	1974	1975	1976
1	2,233.7	2,459.2	2,872.2	2,412.8	2,129.0	2,928.4	3,258.3
2	13,218.3	12,713.2	14,485.3	12,138.9	13,887.3	14,846.5	16,323.7
3	3,902.2	498.9	5,092.8	3,783.4	5,024.2	5,673.8	4,510.5
4	3,432.7	3,092.3	3,530.0	3,213.4	3,017.3	3,413.5	3,915.7
5	4,749.0	3,828.5	4,082.3	3,480.0	3,223.1	3,811.1	3,294.1
6	6,002.7	7,540.2	10,780.6	12,062.0	12,654.7	13,980.1	12,663.4
7	6,871.0	5,598.6	5,792.5	5,365.6	5,001.0	6,351.3	6,528.2
8	3,989.3	4,061.3	5,908.7	6,191.4	5,636.2	6,338.5	7,520.9
9	4,975.5	4,779.7	5,045.5	7,000.3	6,883.6	6,889.7	7,397.1
10	23,882.6	25,027.5	25,381.5	25,478.7	27,622.0	26,442.2	24,555.7
Total	70,297.0	69,599.4	82,971.4	81,123.5	85,208.4	90,675.1	89,997.6

Source: Corps of Engineers' dock-to-dock computer tapes.

Table 48

ILLINOIS BARGE LOADINGS BY PORT RANGE
Calendar Years 1970-1983
(Thousands of Tons)

Port Range	1970	1971	1972	1973	1974	1975	1976
1	1,209.5	1,272.4	1,760.2	1,650.3	1,524.4	2,169.7	2,805.6
2	10,482.8	9,450.7	11,369.0	10,152.0	11,691.3	13,059.4	13,335.7
3	613.5	158.3	4,887.1	3,566.0	4,785.2	5,454.1	4,378.2
4	439.0	508.0	535.3	575.6	496.8	442.7	986.8
5	4,585.2	3,693.3	3,928.2	3,371.1	3,127.7	3,669.9	3,128.7
6	5,458.4	6,277.1	7,941.7	8,650.9	9,048.9	10,564.9	9,104.9
7	4,577.9	3,328.0	3,528.1	2,951.1	2,303.6	3,193.5	3,492.9
8	2,611.4	2,840.3	4,142.9	4,349.7	4,899.7	5,674.1	5,674.1
9	3,287.8	3,635.9	3,825.7	5,237.5	5,431.7	5,720.7	5,237.5
10	5,197.6	5,957.8	5,595.8	5,576.4	7,533.0	8,122.7	7,604.8
Total	38,403.1	37,221.8	49,464.6	48,355.7	50,210.1	56,216.4	56,163.0

Port Range	1977	1978	1979	1980	1981	1982	1983
1	2,513.5	2,685.5	2,740.0	3,862.3	3,197.3	3,427.4	3,639.9
2	12,460.7	10,501.6	10,232.3	13,777.1	11,713.2	10,441.0	11,057.6
3	3,431.2	2,500.0	4,023.5	5,386.6	5,000.4	4,770.1	4,462.0
4	4,754.1	4,284.1	3,794.8	4,527.1	4,344.5	3,861.9	3,510.3
5	3,187.4	5,614.5	5,804.9	5,585.1	5,185.5	4,458.0	4,222.1
6	6,239.1	6,863.6	6,847.7	9,500.1	8,268.9	7,985.1	8,042.5
7	2,956.7	2,601.1	2,003.8	2,390.9	2,328.1	3,167.4	3,024.7
8	5,544.2	5,982.9	5,724.9	6,726.2	6,503.5	7,185.3	6,849.4
9	5,465.1	4,636.4	4,715.5	5,190.4	4,667.9	5,284.5	5,787.4
10	6,408.2	6,813.2	6,827.1	8,599.3	6,950.2	7,011.0	6,576.5
Total	54,964.2	52,482.9	52,734.5	65,545.1	58,159.5	57,591.7	57,231.4

Source: Corps of Engineers' dock-to-dock computer tapes.

Table 49

ILLINOIS BARGE RECEIPTS BY PORT RANGE
Calendar Years 1970-1983
(Thousands of Tons)

Port Range	1970	1971	1972	1973	1974	1975	1976
1	1,024.2	1,186.8	1,112.0	762.5	734.5	756.7	452.7
2	2,735.5	3,282.5	3,116.3	1,986.9	2,196.0	1,787.1	2,988.0
3	3,993.7	2,994.7	340.6	235.7	237.4	219.7	192.3
4	163.8	544.3	135.2	154.1	108.9	95.4	161.4
5	2,353.1	2,254.4	2,270.6	2,210.6	2,410.9	3,415.2	3,558.5
6	1,377.9	1,221.0	1,765.8	1,641.7	1,764.2	1,838.8	1,846.8
7	1,687.7	1,433.8	1,219.8	1,404.9	1,646.1	1,456.0	1,677.4
8	18,685.0	19,069.7	17,805.1	17,945.7	19,499.3	18,837.4	16,990.3
Total	31,893.9	32,377.6	33,506.8	32,767.8	34,998.3	34,456.7	33,834.6

Port Range	1977	1978	1979	1980	1981	1982	1983
1	493.0	382.4	702.8	614.1	706.8	704.3	742.9
2	2,466.0	2,443.7	2,586.3	2,249.2	2,402.8	3,470.0	4,084.8
3	205.1	254.7	195.4	96.2	84.5	76.2	104.8
4	2,654.2	3,186.8	3,186.8	3,186.8	2,000.5	2,066.2	2,143.1
5	190.7	209.8	219.4	204.0	180.4	206.3	168.6
6	2,281.8	1,479.3	1,065.9	1,231.1	866.7	744.9	1,192.9
7	3,031.3	3,044.6	2,255.5	2,121.6	1,771.6	1,295.4	1,267.5
8	7	8	1,196.1	1,045.1	1,100.3	974.1	832.5
9	9	9	1,682.2	1,190.6	1,150.9	872.3	863.6
10	15,135.1	12,882.4	13,174.1	13,134.6	12,115.8	11,339.2	12,196.4
Total	29,847.5	26,270.4	26,184.2	23,902.5	22,041.2	21,675.5	24,340.8

Source: Corps of Engineers' dock-to-dock computer tapes.

Table 50

COAL LOADINGS TO BARGE BY RIVER
 Calendar Years 1975-1983
 (Thousands of Tons)

<u>Year</u>	<u>Illinoian</u>	<u>Mississippi</u>	<u>Ohio</u>	<u>Total</u>
1975 5,763.8	10,492.6	2,665.2	18,921.6	
1976 5,032.6	7,773.8	2,494.1	15,300.5	
1977 4,352.0	6,227.6	5,861.6	16,441.2	
1978 3,650.5	4,059.5	7,247.5	14,967.5	
1979 3,696.8	5,924.9	6,348.6	15,960.3	
1980 5,380.3	11,006.4	6,895.9	23,282.6	
1981 4,775.3	8,736.8	5,821.8	19,333.9	
1982 3,521.2	6,535.7	4,158.8	14,215.7	
1983 3,822.4	6,702.6	3,457.5	13,982.5	

Source: Corps of Engineers' dock-to-dock computer tapes.
 Note: Due to confidentiality requirements, data on coal loadings to barge is not shown by port range.

Table 51

COAL RECEIPTS BY BARGE BY RIVER
 Calendar Years 1975-1983
 (Thousands of Tons)

<u>Year</u>	<u>Illinoian</u>	<u>Mississippi</u>	<u>Ohio</u>	<u>Total</u>
1975 7,348.7	5.7		1,846.4	9,200.8
1976 6,284.6	140.6		1,677.0	8,102.0
1977 6,138.0	100.7		1,378.6	7,617.3
1978 4,214.4	118.6		1,498.5	5,831.5
1979 4,453.7	131.0		1,688.1	6,272.8
1980 5,764.9	68.3		707.4	6,540.6
1981 5,547.8	131.7		774.5	6,454.0
1982 4,348.3	303.3		717.9	5,369.5
1983 5,449.9	627.3		947.5	7,024.7

Source: Corps of Engineers' dock-to-dock computer tapes.

Table 52

COAL RECEIPTS BY BARGE BY PORT RANGE
Calendar Years 1975-1983
(Thousands of Tons)

Port Range	1975	1976	1977	1978	1979
1	2.8	2.7	16.7	11.1	3.3
2	2.9	137.9	84.0	101.9	126.3
3	0.0	0.0	0.0	5.6	1.4
4	1,837.9	1,677.0	1,377.3	1,498.5	1,688.1
5	8.5	0.0	1.3	0.0	0.0
6	783.3	727.6	895.8	642.2	479.0
7	457.6	1.2	230.1	106.0	52.4
8	903.0	912.5	805.8	161.8	118.6
9	40.8	32.1	41.9	25.1	58.9
10	5,164.0	4,611.2	4,164.4	3,279.3	3,744.8
Total	9,200.8	8,102.2	7,617.3	5,831.5	6,272.8

Source: Corps of Engineers' dock-to-dock computer tapes.

Table 53

COAL LOADINGS TO BARGE BY RIVER OF DESTINATION
Calendar Years 1970-1983
(Thousands of Tons)

River	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Illinois Terminals	6,380.2	5,792.9	5,684.5	6,891.1	6,775.1	7,644.5	6,144.5	6,775.1	6,891.1	6,775.1	6,775.1	6,775.1	6,775.1	6,775.1
L. Mississippi River	1,253.8	1,382.1	1,355.3	1,459.1	1,292.3	1,695.1	1,325.1	1,382.1	1,355.3	1,459.1	1,292.3	1,695.1	1,325.1	1,382.1
Ohio River	14.3	1.7	312.8	377.7	1,086.4	1,966.4	1,914.8	1.7	312.8	377.7	1,086.4	1,966.4	1,914.8	1.7
U. Mississippi River	3,965.3	2,701.2	6,545.2	4,105.8	5,061.2	5,365.3	4,134.4	2,701.2	6,545.2	4,105.8	5,061.2	5,365.3	4,134.4	2,701.2
Tennessee River	89.0	234.1	13.1	0.0	39.4	4.3	437.0	13.1	0.0	39.4	4.3	437.0	4.3	13.1
GIWW-East	530.1	498.5	1,080.4	1,472.9	1,505.2	1,955.9	1,955.9	498.5	1,080.4	1,472.9	1,505.2	1,955.9	1,955.9	1,955.9
Cumberland River	0.0	0.0	46.7	441.3	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GIWW-West	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Black Warrior River	0.0	43.2	1,396.7	545.5	417.7	324.1	0.0	0.0	43.2	1,396.7	545.5	417.7	324.1	0.0
Lake Michigan	47.0	53.4	2.6	0.0	0.0	0.0	0.0	0.0	47.0	53.4	2.6	0.0	0.0	0.0
Kanawha River	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Destinations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	12,230.6	10,737.2	16,437.4	15,435.1	16,337.2	18,921.6	15,380.5	12,230.6	10,737.2	16,437.4	15,435.1	16,337.2	18,921.6	15,380.5

Total

River	1977	1978	1979	1980	1981	1982	1983
Illinois Terminals	5,637.0	3,528.9	3,404.2	5,121.5	4,617.0	3,399.0	3,727.9
L. Mississippi River	435.1	769.0	1,628.8	4,531.0	5,053.2	2,192.6	2,457.9
Ohio River	4,047.4	5,859.5	4,713.4	5,273.5	4,421.4	2,688.3	2,128.2
U. Mississippi River	4,271.1	2,345.6	2,613.3	3,181.0	1,533.1	1,629.1	1,855.1
Tennessee River	317.5	499.2	1,120.7	2,559.7	1,613.4	1,835.1	1,852.4
GIWW-East	1,631.4	1,240.1	1,650.4	1,870.7	1,294.1	1,632.4	1,285.6
Cumberland River	0.0	700.2	829.5	926.7	716.4	733.8	672.1
GIWW-West	0.0	13.9	0.0	12.0	25.2	1.4	0.0
Black Warrior River	0.0	0.0	0.0	2.0	0.0	0.0	0.0
Lake Michigan	59.6	0.0	0.0	0.0	0.0	0.0	0.0
Kanawha River	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Destinations	13.7	0.0	0.0	4.4	0.0	73.3	1.5

Total

Source: Corps of Engineers' dock-to-dock computer tapes.

Notes: L. Mississippi River destinations are south of the Ohio River.

U. Mississippi River destinations are north of the Ohio River and not in the State of Illinois.

GIWW is the Gulf Intracoastal Waterway.

Table 54

COAL RECEIPTS BY BARGE BY RIVER OF ORIGIN
Calendar Years 1970-1983
(Thousands of Tons)

River	1970	1971	1972	1973	1974	1975	1976
Illinois Terminals	6,360.2	5,792.9	5,684.5	6,891.1	6,775.1	7,644.5	6,144.5
Ohio River	584.1	406.8	417.6	454.5	161.6	586.5	1,181.4
Green River	1,744.9	1,361.0	1,416.3	1,287.7	911.3	878.7	1,181.4
Monongahela River	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kanawha River	45.8	40.3	27.6	11.6	7.0	4.4	4.4
U. Mississippi River	154.5	153.0	4.1	7.7	78.0	333.8	15.1
Tennessee River	846.4	201.5	74.2	26.6	76.7	179.7	165.4
Gulf East	0.0	0.0	0.0	0.0	0.0	0.0	1.4
L. Mississippi River	0.0	0.0	0.0	1.4	0.0	0.0	1,858.7
Arkansas River	0.0	0.0	49.1	0.0	0.0	2.5	3.5
Other Origins	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	9,735.8	7,955.4	7,673.5	8,615.8	8,302.7	9,200.9	8,102.3
River	1977	1978	1979	1980	1981	1982	1983
Illinois Terminals	5,637.0	3,798.1	3,909.0	5,559.6	5,051.7	3,826.0	4,085.7
Ohio River	1,141.2	392.6	347.2	119.9	374.9	585.7	1,294.8
Green River	760.3	1,403.0	1,686.7	690.0	908.0	711.6	799.3
Monongahela River	2.9	1.4	1.4	25.8	12.0	140.1	312.9
Kanawha River	0.0	0.0	0.0	1.5	0.0	0.0	45.2
U. Mississippi River	29.9	18.3	28.0	14.1	2.9	6.8	32.9
Tennessee River	43.5	6.0	9.0	2.9	15.2	3.1	24.1
Gulf East	0.0	2.9	0.0	0.0	0.0	1.4	18.7
L. Mississippi River	1.4	4.2	3.2	5.9	2.8	4.5	1.6
Arkansas River	26.8	84.2	68.4	67.4	74.1	0.0	0.0
Other Origins	1.5	2.8	1.4	6.0	0.0	1.5	0.0
Total	7,644.5	5,713.5	6,054.3	6,493.3	6,441.7	5,280.6	6,615.1

Source: Corps of Engineers' dock-to-dock computer tapes.

Notes: U. Mississippi River origins are north of the Ohio River and not in the State of Illinois.

L. Mississippi River origins are south of the Ohio River.

GINN is the Gulf Intracoastal Waterway.

Table 55

GRAIN LOADINGS TO BARGE BY RIVER
Calendar Years 1970-1983
(Thousands of Tons)

River	1970	1971	1972	1973	1974	1975	1976	Year	Illinois	Mississippi	Ohio	Total
Illinois Terminals	6,360.2	5,792.9	5,684.5	6,891.1	6,775.1	7,644.5	6,144.5	1970	7,842.8	1,343.2	159.9	9,345.9
Ohio River	584.1	406.8	417.6	454.5	161.6	586.5	1,181.4	1971	7,821.8	1,442.5	227.2	9,491.5
Green River	1,744.9	1,361.0	1,416.3	1,287.7	911.3	878.7	1,181.4	1972	11,567.5	2,085.3	300.9	13,953.7
Monongahela River	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1973	11,444.5	1,849.7	209.5	13,512.7
Kanawha River	45.8	40.3	27.6	11.6	7.0	4.4	4.4	1974	10,049.8	1,849.7	281.4	12,180.9
U. Mississippi River	154.5	153.0	4.1	7.7	78.0	333.8	15.1	1975	13,088.7	2,674.0	459.9	16,222.6
Tennessee River	846.4	201.5	74.2	26.6	76.7	179.7	165.4	1976	15,412.0	3,051.2	475.7	18,938.9
Gulf East	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
L. Mississippi River	0.0	0.0	0.0	1.4	0.0	0.0	0.0					
Arkansas River	0.0	0.0	49.1	0.0	0.0	2.5	3.5					
Other Origins	0.0	0.0	0.0	0.0	0.0	0.0	0.0					

Source: Corps of Engineers' dock-to-dock computer tapes.

Table 56
GRAIN LOADINGS TO BARGE BY PORT RANGE
Calendar Years 1970-1983
(Thousands of Tons)

Port Range	1970	1971	1972	1973	1974	1975	1976
1	1,075.3	1,069.4	1,489.6	1,407.3	1,303.6	1,778.8	2,053.4
2	230.6	316.7	527.8	406.4	500.7	834.0	896.9
3	37.3	56.4	67.9	45.0	45.4	61.2	100.9
4	69.0	104.2	125.5	83.2	84.1	113.1	186.6
5	90.9	123.0	175.4	126.3	197.3	346.8	289.1
6	1,662.6	1,729.5	2,745.5	2,791.8	2,638.9	3,385.8	3,990.2
7	2,065.6	2,005.8	2,982.6	2,438.0	2,045.3	2,905.0	3,282.5
8	2,361.7	2,316.1	3,597.2	4,171.1	3,683.0	4,358.3	5,312.4
9	1,322.4	1,349.9	1,786.2	1,562.9	1,218.3	1,590.4	2,174.7
10	1,430.5	1,420.5	1,456.0	1,480.7	1,464.3	1,849.2	1,672.2
Total	9,345.9	9,491.5	13,953.7	13,512.7	12,180.9	16,222.6	18,938.9
Port Range	1977	1978	1979	1980	1981	1982	1983
1	1,897.1	2,003.5	2,015.0	2,425.1	2,448.3	2,541.4	2,077.3
2	1,165.5	693.2	1,021.1	1,161.9	1,413.6	1,867.5	1,931.7
3	81.6	109.2	274.1	324.9	322.5	384.2	360.0
4	151.0	202.0	507.0	600.9	596.4	710.6	665.8
5	367.2	139.5	137.1	162.4	161.2	192.1	180.0
6	3,921.5	3,656.2	3,104.4	3,805.8	3,396.1	4,441.8	4,009.4
7	2,838.2	2,341.9	1,833.5	1,972.9	2,084.7	2,610.3	2,179.1
8	5,115.1	5,627.6	5,333.3	6,314.4	5,895.9	6,659.2	6,379.1
9	2,168.0	1,775.6	1,615.1	1,968.9	2,130.3	2,692.4	2,664.3
10	844.8	585.2	422.2	536.6	682.5	692.8	910.0
Total	18,550.0	17,133.9	16,262.8	19,273.8	19,131.5	22,792.3	21,356.7

Source: Corps of Engineers' dock-to-dock computer tapes.

Note: Due to confidentiality requirements, the Corps of Engineers does not release grain tonnage loaded for Port Ranges 3 and 4. The tonnage figures presented in this table for these two port ranges are IDOT estimates.

Table 57

PETROLEUM PRODUCTS LOADINGS TO BARGE BY RIVER
Calendar Years 1975-1983
(Thousands of Tons)

Year	111inois	MississippI	Ohio	Total
1975	3,118.1	5,728.8	5.6	8,852.5
1976	3,226.7	6,274.7	3.1	9,504.5
1977	3,089.6	6,087.8	14.0	9,191.4
1978	2,868.3	5,845.1	12.8	8,725.2
1979	3,495.4	4,709.0	9.6	8,214.0
1980	3,940.6	4,458.4	1.2	8,400.2
1981	3,169.8	3,679.2	12.7	6,861.7
1982	3,186.8	3,475.7	12.0	6,674.5
1983	3,278.8	3,040.6	1.4	6,320.8

Source: Corps of Engineers' dock-to-dock computer tapes.

Table 58

PETROLEUM PRODUCTS LOADINGS TO BARGE BY PORT RANGE
Calendar Years 1975-1983
(Thousands of Tons)

Port Range	1975	1976	1977	1978	1979
1	5,723.9	6,271.9	6,085.6	5,845.1	4,707.6
2	4.9	0.0	2.2	0.0	0.0
3	5,720.5	2.8	0.0	0.0	1.4
4	5.6	3.1	4.5	12.8	9.6
5	0.0	0.0	9.5	0.0	0.0
6	1.2	11.7	1.0	5.0	5.6
7	1.6	17.1	0.0	8.7	0.0
8	3.9	0.0	9.3	4.3	12.4
9	1,590.9	1,931.7	1,734.8	1,427.4	1,552.3
10	1,520.5	1,266.2	1,344.5	1,422.9	1,925.1
Total	8,852.5	9,504.5	9,191.4	8,726.2	8,214.0
Port Range	1980	1981	1982	1983	
1	0.0	0.0	0.0	0.0	
2	4,458.4	3,677.8	3,475.7	3,040.6	
3	0.0	1.4	0.0	0.0	
4	0.0	1.2	12.7	1.7	
5	0.0	0.0	0.0	10.3	
6	21.9	0.0	2.7	19.4	
7	14.8	5.4	23.7	5.4	
8	1.4	3.4	3.0	24.7	
9	1,764.6	1,443.1	1,464.4	1,796.2	
10	2,137.9	1,715.2	1,676.3	1,428.6	
Total	8,400.2	6,861.7	6,674.5	6,320.8	

Source: Corps of Engineers' dock-to-dock computer tapes.

Table 59

PETROLEUM PRODUCTS RECEIPTS BY BARGE BY RIVER
Calendar Years 1975-1983
(Thousands of Tons)

Year	Illinoian	Mississippi	Ohio	Total
1975	5,944.5	972.5	15.1	6,932.1
1976	5,258.2	1,561.3	28.1	6,847.6
1977	5,582.2	1,206.2	116.4	6,904.8
1978	5,679.4	1,174.5	82.8	6,936.7
1979	4,950.2	1,565.6	44.5	6,560.3
1980	3,942.9	1,333.9	75.5	5,352.3
1981	3,286.4	1,467.9	36.4	4,790.7
1982	3,201.3	2,102.2	18.1	5,321.6
1983	3,359.8	1,750.3	22.9	5,133.0

Source: Corps of Engineers' dock-to-dock computer tapes.

Table 60

PETROLEUM PRODUCTS RECEIPTS BY BARGE BY PORT RANGE
Calendar Years 1975-1983
(Thousands of Tons)

Port Range	1975	1976	1977	1978	1979
1	60.5	45.4	60.4	40.3	89.3
2	912.0	1,515.9	1,105.8	1,132.9	1,476.3
3	0.0	0.0	0.0	1.3	0.0
4	15.1	28.1	116.4	82.8	44.5
5	0.0	0.0	0.0	0.0	0.0
6	374.4	458.4	511.1	557.5	330.6
7	1,598.9	1,645.5	1,665.4	1,652.6	1,357.6
8	32.7	69.4	177.0	244.5	138.0
9	67.8	89.6	84.3	140.4	401.2
10	3,810.7	2,995.3	3,143.4	3,084.4	2,722.8
Total	6,932.1	6,847.6	6,904.8	6,936.7	6,560.3
Port Range	1980	1981	1982	1983	
1	11.4	40.1	24.1	14.8	
2	1,322.5	1,427.8	2,078.1	1,735.5	
3	0.0	0.0	0.0	0.0	
4	75.5	36.4	18.1	22.9	
5	0.0	0.0	0.0	0.0	
6	224.9	87.6	148.8	91.0	
7	1,249.8	921.8	685.9	599.6	
8	203.0	65.1	45.0	119.7	
9	140.4	184.2	165.4	732.2	
10	2,120.8	2,027.7	2,156.2	1,817.3	
Total	5,352.3	4,790.7	5,321.6	5,133.0	

Source: Corps of Engineers' dock-to-dock computer tapes.

Table 61

FERTILIZER RECEIPTS BY BARGE BY RIVER
Calendar Years 1970-1983
(Thousands of Tons)

Year	Illinois	Mississippi ¹	Ohio	Total
1970	593.6	233.0	1.4	828.0
1971	625.5	397.0	0.0	1,022.5
1972	637.8	286.5	0.0	924.3
1973	570.7	201.0	3.5	775.2
1974	685.7	116.1	4.4	806.2
1975	807.0	128.8	1.2	937.0
1976	1,196.4	186.0	0.0	1,382.4
1977	1,162.4	188.3	0.0	1,350.7
1978	1,057.0	223.5	1.5	1,282.0
1979	854.4	234.0	2.8	1,091.2
1980	840.7	351.2	6.6	1,198.5
1981	661.1	285.9	14.3	961.3
1982	482.0	256.0	8.7	746.7
1983	866.0	462.1	5.3	1,333.4

Source: Corps of Engineers' dock-to-dock computer tapes.

Table 62
FERTILIZER RECEIPTS BY BARGE BY PORT RANGE
Calendar Years 1970-1983
(Thousands of Tons)

Port Range	1970	1971	1972	1973	1974	1975	1976
1	91.5	132.8	82.2	54.3	71.2	81.0	115.8
2	137.0	263.0	204.3	142.7	40.6	67.4	40.5
3	4.5	1.3	0.0	4.0	4.4	7.3	2.8
4	0.0	0.0	0.0	3.5	4.4	0.0	0.0
5	1.4	0.0	0.0	0.0	0.0	1.2	0.0
6	59.0	45.6	61.4	68.9	91.5	111.2	146.9
7	222.0	221.5	191.1	285.9	273.0	349.6	582.5
8	50.1	45.4	79.7	44.3	76.8	88.5	113.2
9	90.6	116.8	108.9	69.7	117.8	69.5	116.5
10	171.8	196.2	196.7	126.6	188.3	237.4	
Total	827.9	1,022.6	924.3	775.0	806.3	937.1	1,382.5
Port Range	1977	1978	1979	1980	1981	1982	1983
1	146.6	124.0	148.4	203.7	195.1	174.0	248.8
2	41.8	99.6	85.6	147.5	90.8	80.5	213.3
3	0.0	0.0	0.0	0.0	0.0	1.5	0.0
4	0.0	1.5	2.8	6.6	14.3	8.7	5.3
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	174.7	163.1	168.8	163.3	137.5	104.0	191.9
7	506.5	453.8	404.1	398.4	343.0	214.3	341.9
8	57.6	42.4	45.6	64.1	68.5	85.4	234.9
9	158.5	120.3	82.4	80.8	29.5	44.8	47.4
10	265.0	277.5	153.5	134.1	82.7	33.6	49.9
Total	1,350.7	1,282.2	1,091.2	1,198.5	961.4	746.8	1,333.4

Source: Corps of Engineers' dock-to-dock computer tapes.

Table 63
TON-MILES OF ILLINOIS BARGE SHIPMENTS ON INLAND WATERWAYS
Calendar Year 1983

Commodity Group	U.S. Internal Ton-Miles (Thousands)	U.S. Average Miles Per Ton	Illinois Barge Ton-Miles (Thousands)
	55,367,300	1,110.9	21,898.6
Grains	51,120,072	395.2	21,007.1
Coal & Coke			
Petroleum & Products	31,855,683	243.5	11,453.9
Chemicals & Products	25,248,402	706.3	4,550.9
Iron Ore, Iron & Steel	6,754,447	1,070.9	843.7
Sand, Gravel, Stone	5,402,558	118.9	9,811.5
Other	49,879,836	556.5	11,361.6
Total	225,628,298	463.2	80,927.3

Notes:

Internal shipments include shipments other than inland waterway barge shipments, but the category is considered most representative of Engineers.

Illinois average of miles per ton for each commodity group is assumed to be equal to the U.S. average.

Source: Waterborne Commerce of the United States, Calendar Year 1983, Part 5, National Summaries, Table 3-Domestic Traffic, U.S. Army Corps of Engineers.

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