

GREEN'S

*Marine Directory*

— OF —

*The Great Lakes*

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WM. D. PRESTON

THE DANA THOMAS BOWEN  
Marine Collection  
THE GREAT LAKES HISTORICAL SOCIETY

Vessel Outfits

Ship Chandlery

The Ursan-Milton Co.

ESTABLISHED 1871

Cleveland, Ohio

History, pp. 234

AMERICAN BUREAU OF SHIPPING

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ROCKEFELLER BUILDING,

CLEVELAND, OHIO.

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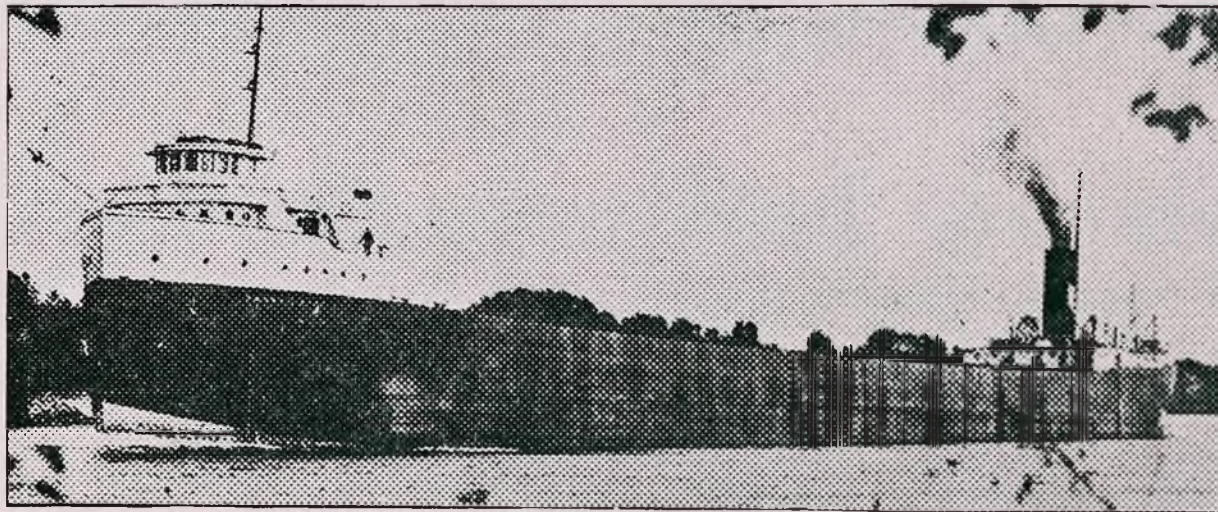
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CLEVELAND  
OHIO



Main Office  
CLEVELAND  
OHIO

## —PLANTS AT—

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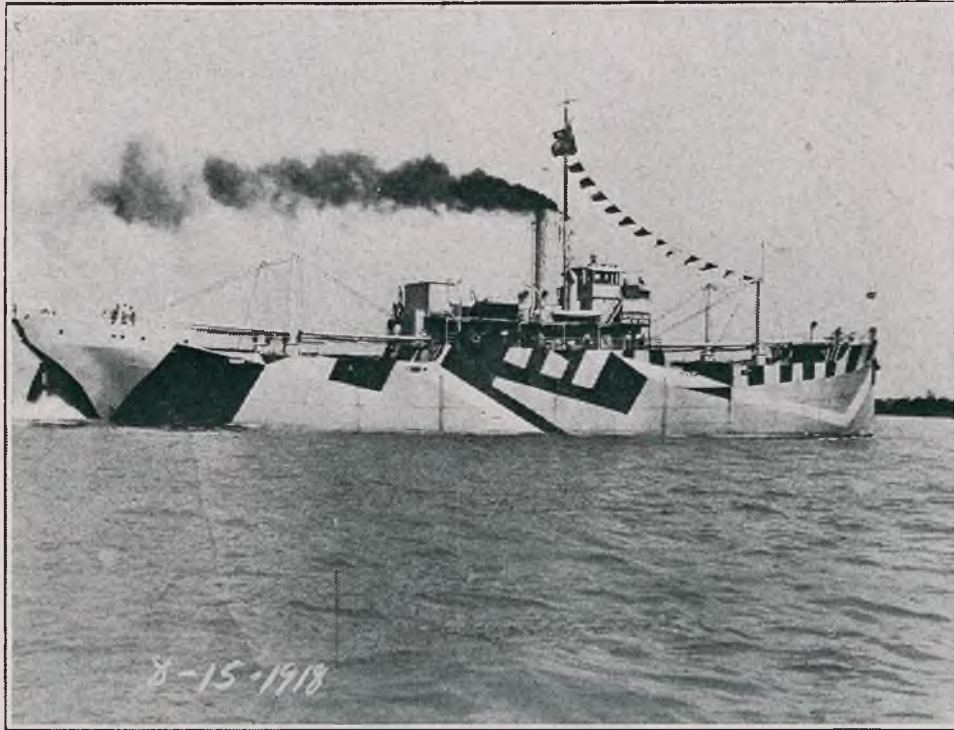
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Wyandotte, Mich.  
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Our floating steel dry docks have a capacity for handling boats 650 feet long. Marine Repair work furnished economically and with dispatch.

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Oxy Acetylene  
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Plant and Office:  
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# The Ohio Shipbuilding Company

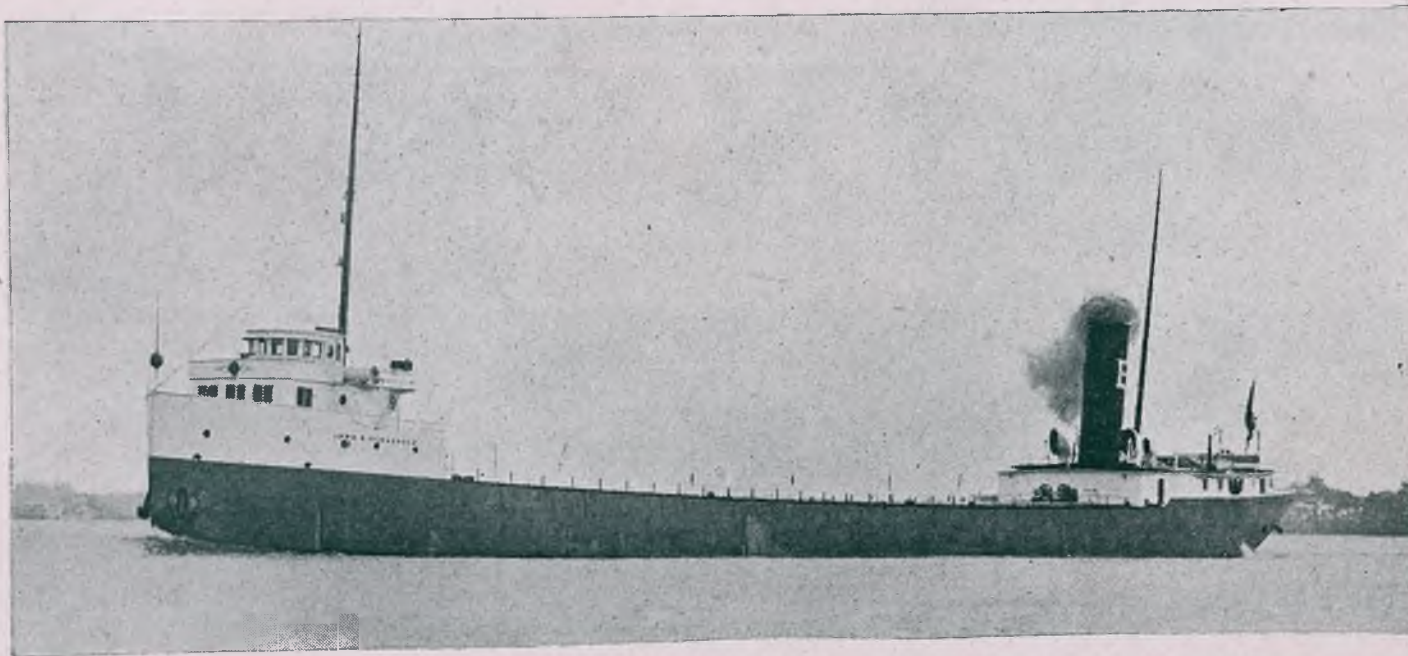
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Ship Building  
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And Repairs  
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Oxy-acetylene Cutting  
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SHOWING EVERY POINT AND DEGREE.



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READ CAREFULLY EVERY ADVERTISEMENT IN THIS DIRECTORY

# U. S. DEPARTMENT OF AGRICULTURE

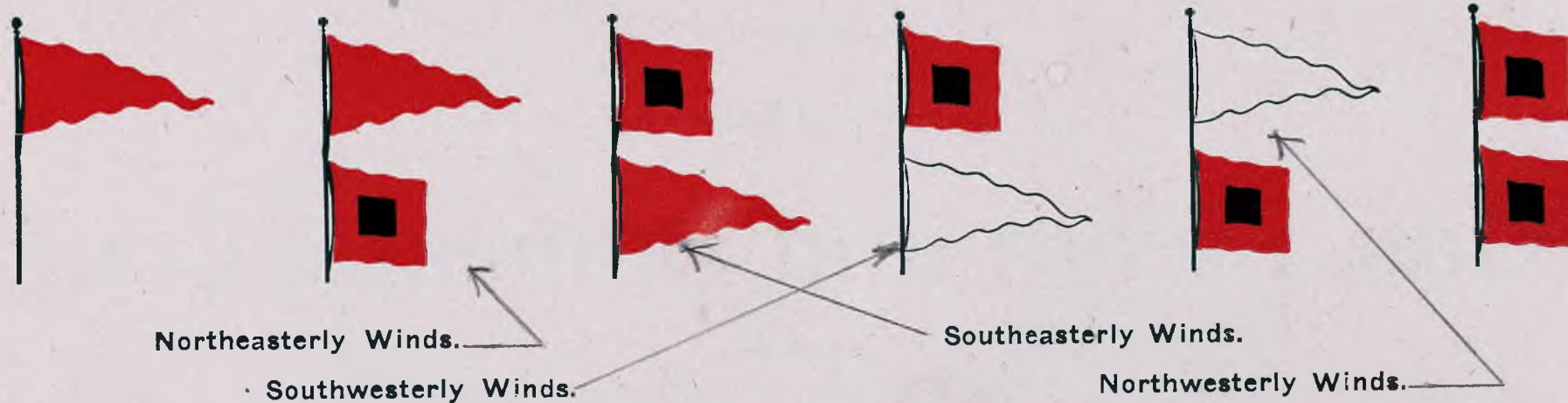
## Weather Bureau

### SMALL CRAFT, STORM AND HURRICANE WARNINGS

Small Craft

Storm

Hurricane



Flags 8 feet square. Pennants, 5-ft. hoist. 12-foot fly.

#### EXPLANATION OF SMALL CRAFT, STORM, AND HURRICANE WARNINGS

**Small craft warning.**—A red pennant indicates that moderately strong winds are expected.

**Storm warning**—A red flag with a black center indicates that a storm of marked violence is expected.

The pennants displayed with the flags indicate the direction of the wind: white, westerly; red, easterly. The pennant above the flag indicates that the wind is expected to blow from the northerly quadrants; below from the southerly quadrants.

By night a red light indicates easterly winds, and a white light below a red light, westerly winds.

**Hurricane warning.**—Two red flags with black centers, displayed one above the other, indicate the expected approach of a tropical hurricane, or one of those extremely severe and dangerous storms which occasionally move across the Lakes and northern Atlantic Coast. Neither small craft nor hurricane warnings are displayed at night.

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FAIRMONT, WEST VIRGINIA

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Miners and Shippers of

## Gas, Steam and Domestic Coal

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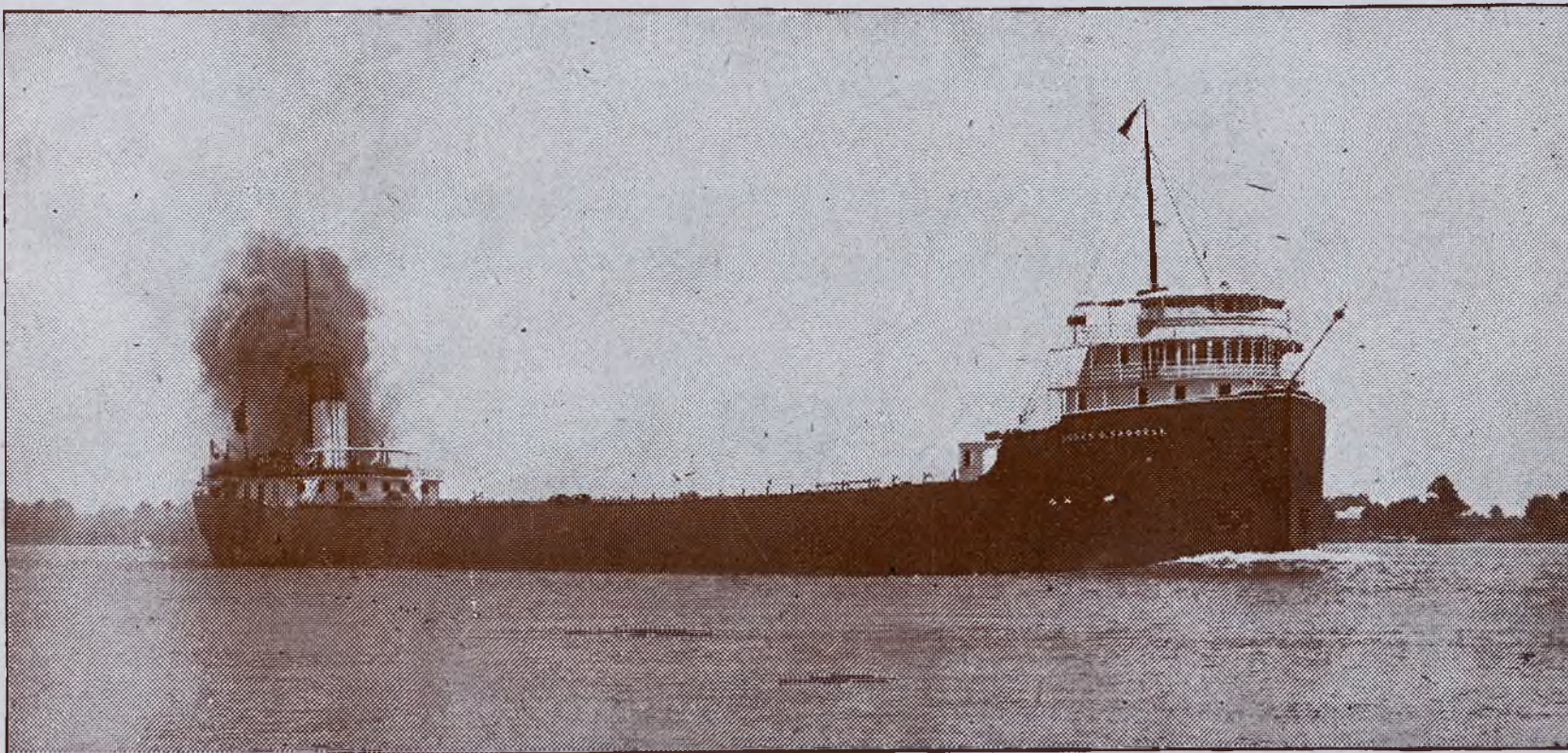
We reach all lower Lake Ports on Fairmont Rate via Baltimore & Ohio R. R., Pennsylvania Lines, and New York Central Lines. We supply GOOD COAL and GOOD SERVICE

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owned by The Pittsburgh Steamship Co., Cleveland, Ohio.

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INCORPORATED 1862

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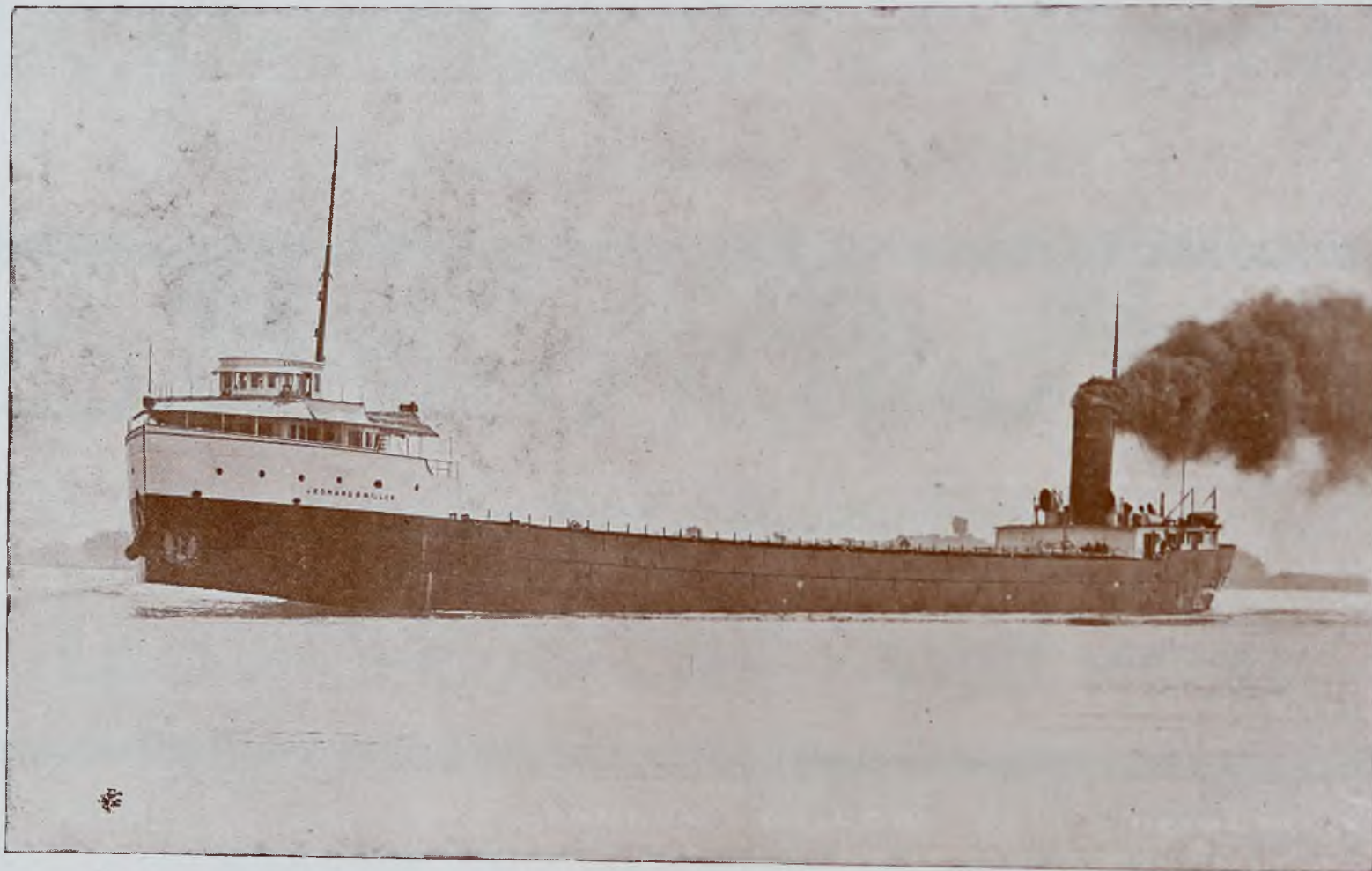
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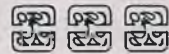


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# HEYL & PATTERTON, INCORPORATED CONTRACTING ENGINEERS

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We have been called in by so many marine engineers to weld stern-frames and rudder stocks of steamships, and by so many iron and steel companies to weld rolls, pinions, connecting rods and shafts, that apparently there is a greater demand for the Thermit Process than ever before. A Thermit weld will usually eliminate serious delay, if not a complete shut down.

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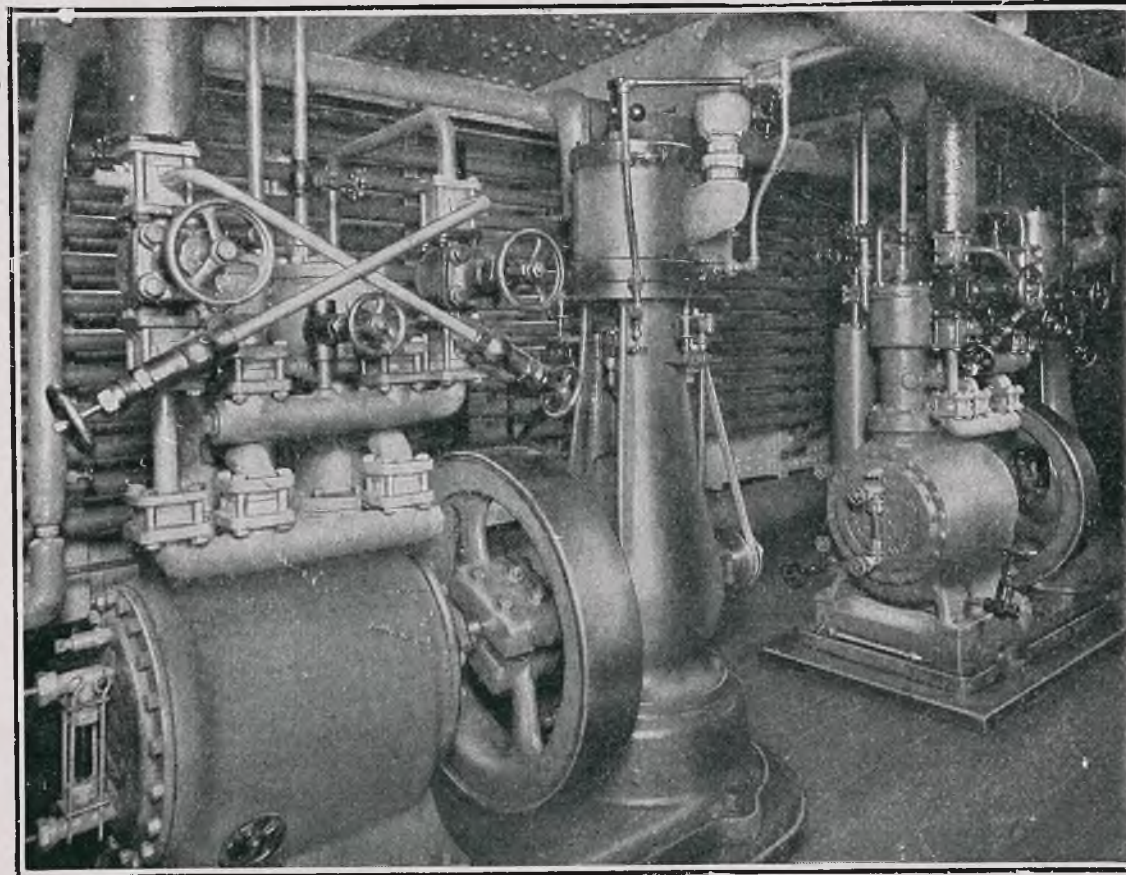
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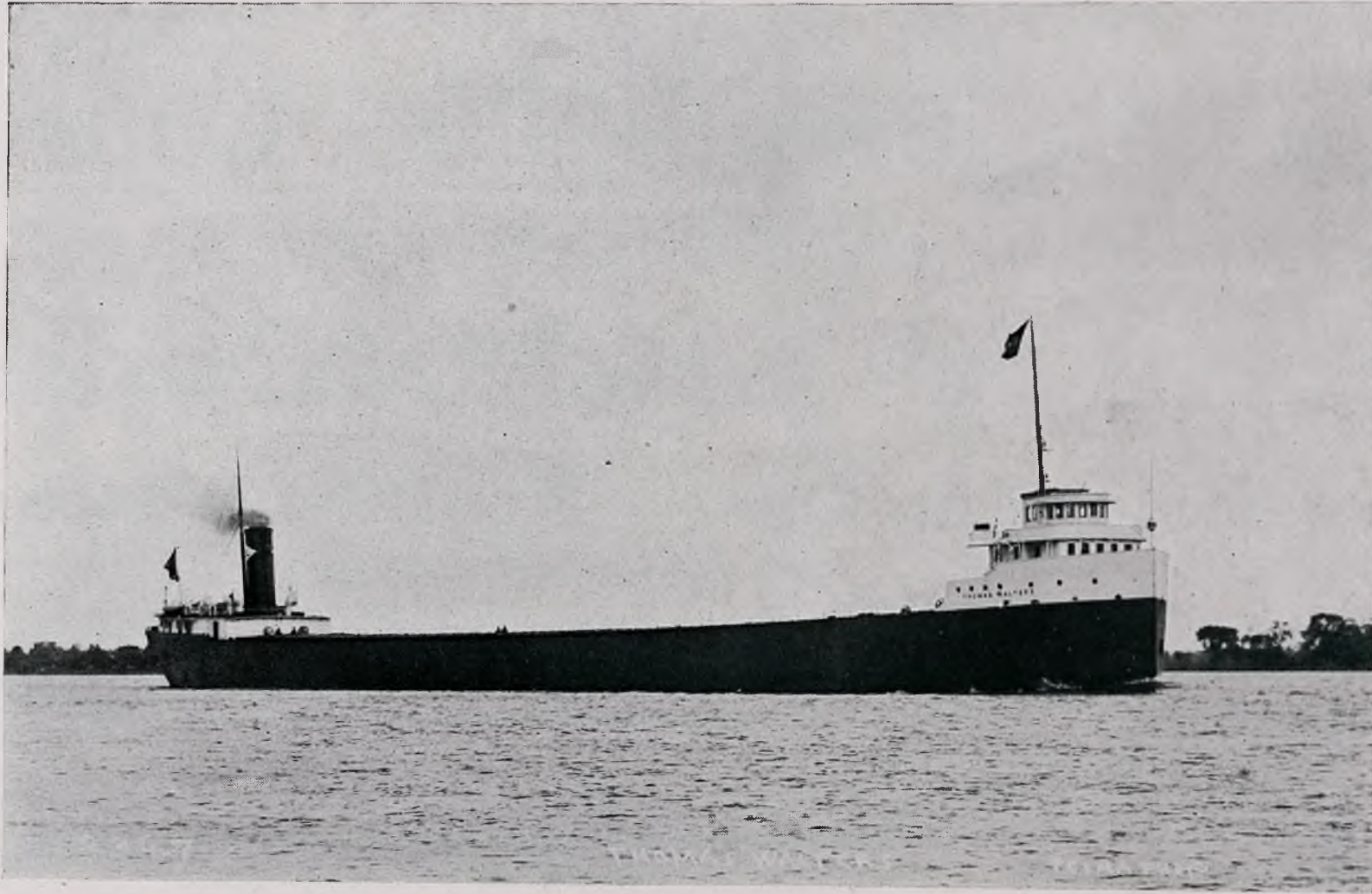
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**THE "ROCK OF AGES" LIGHTHOUSE**  
Located at the S-W End of Isle Royal, Lake Superior  
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Facilities for Loading all  
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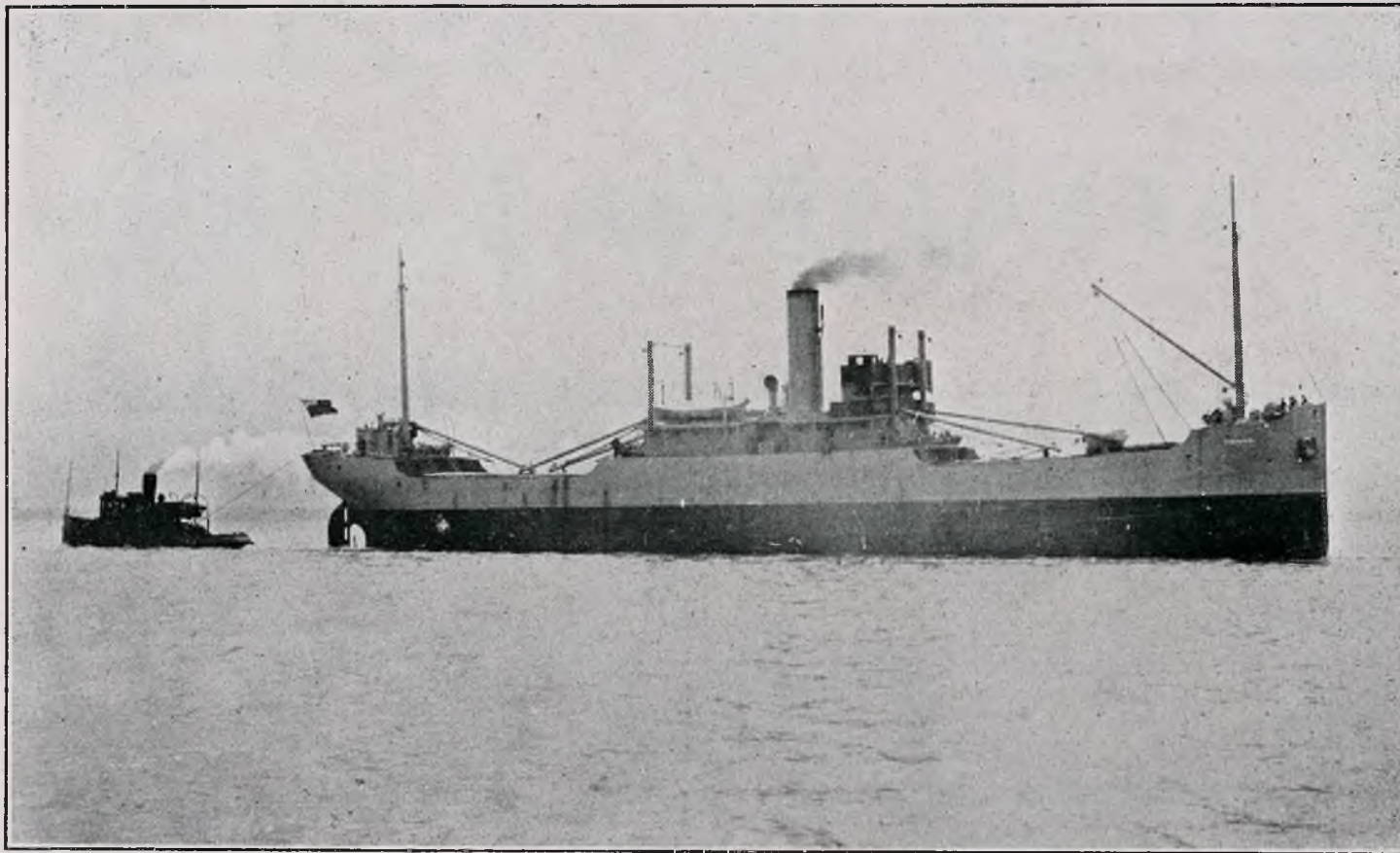
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# COAL

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**STEAMER "TENTO"**

Built by The Polson Iron Works, Ltd., Toronto, Ontario

**Steel Vessels, Tugs, Dredges and Scows  
Marine Engines and Boilers**

All Types and Sizes

# **POLSON IRON WORKS**

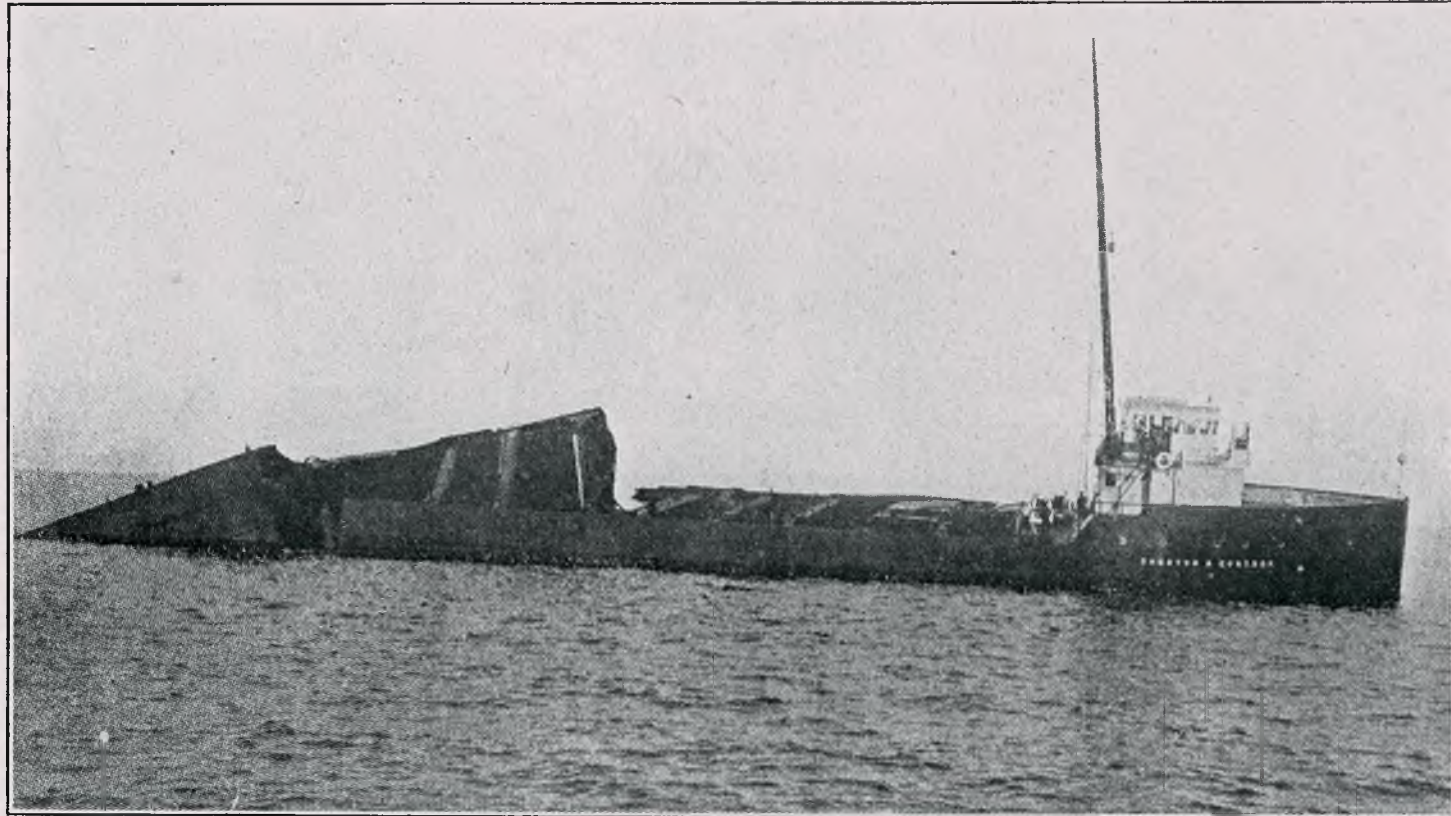
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TORONTO, CANADA

**Steel Shipbuilders  
Engineers and Boilermakers**

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**STEAMER CHESTER A. CONGDON**

Steamer Chester A. Congdon, which represents the greatest loss in the history of Great Lakes Shipping. The Congdon piled up on Canoe Rocks near Passage Island, Lake Superior.

# Glidden Endurance Wood Oil Marine Coatings

It has been the constant aim of the Glidden varnish and paint makers to develop the *right* finish for every marine use.

The fact that Glidden Finishes are used on a majority of lake boats is evidence that these paints and varnishes are of lasting quality.

Glidden Marine Coatings are made on a base of Chinese Wood Oil. This oil, properly treated, has better weather-resisting properties than any other oil known.

This foundation, with the use of highest quality gums, pigments, driers and thinners, put together by an organization with fifty years' experience in a model factory, is your guarantee of Glidden quality.

We have the proper finish for every marine use, inside or outside.

Write or phone our offices for samples and quotations.



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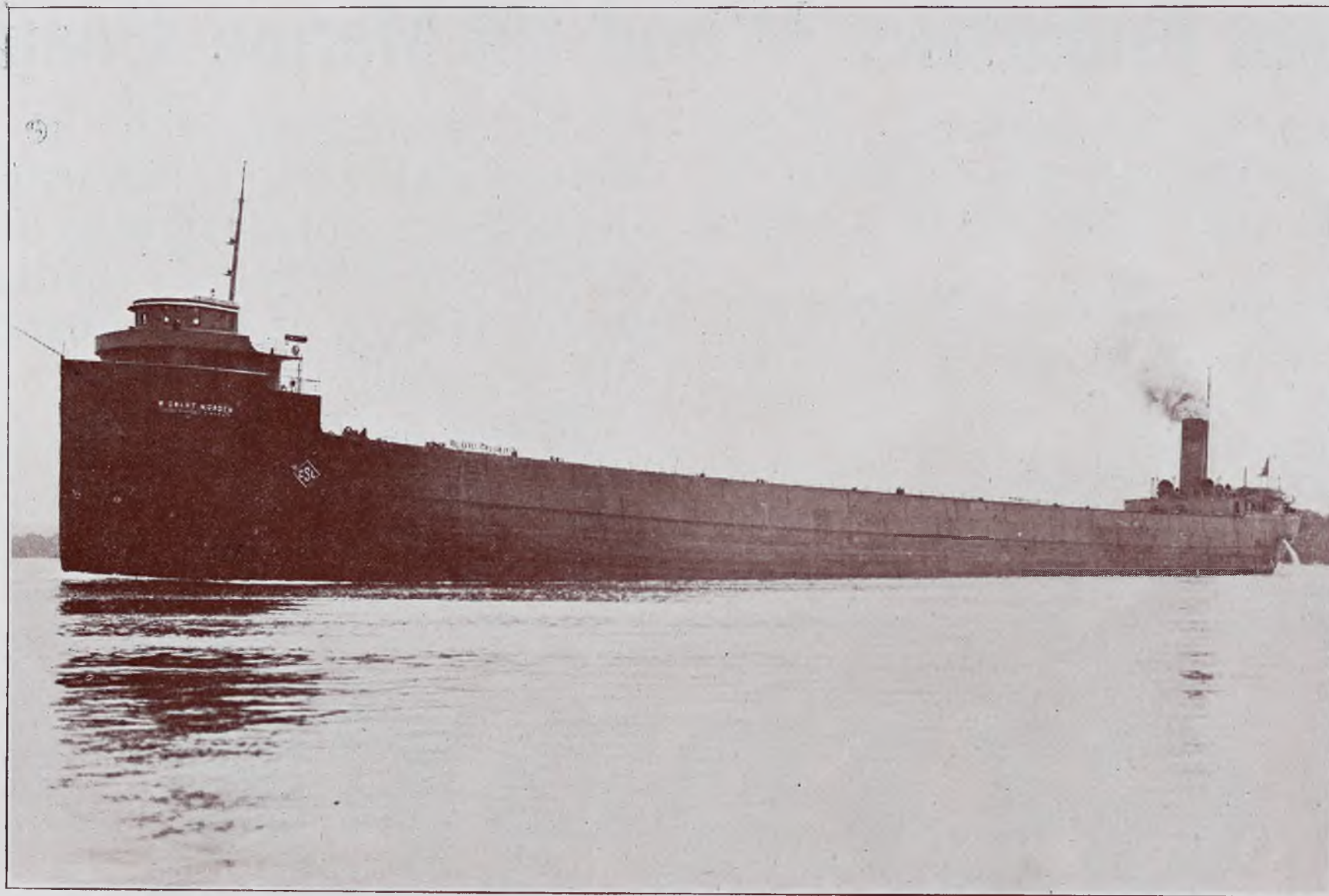


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Soo, Mich.

**STEAMER W. GRANT MORDEN.**

The Flagship of the Canada Steamship Lines, Ltd., Montreal, Canada, and the longest Steamer on the Great Lakes. Her record cargoes are 490,724 Bushels of Wheat in 1916, and 760,066 Bushels of Oats in 1915.



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**ATLANTA**  
**ST. LOUIS**

**SAN FRANCISCO**  
**PHILADELPHIA**

Eleventh Edition

# Green's Marine Directory of the Great Lakes

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Containing complete information regarding the construction of American and Canadian Vessels, names and addresses of their owners, lists of Steamship Corporations, also information concerning Grain Elevators, Harbors, Ore and Coal Docks of the Great Lakes Etc., Etc., Etc.

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Price Per Copy, \$5.00

Postpaid

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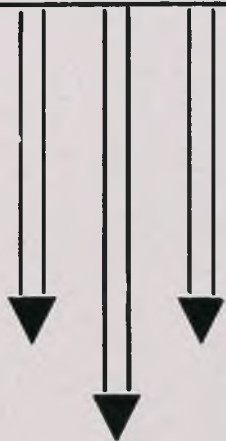
Compiled by  
**FRED W. GREEN**

Rockefeller Building  
**CLEVELAND - OHIO**

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**FRED W. GREEN**

Read Carefully Every Advertisement in this Directory

# Preface



**Read  
Carefully  
Every  
Advertisement  
in this  
Directory**

This book has been compiled with the idea in view of giving to all those interested in shipping, reliable and complete information, as far as possible, concerning Vessels, Ore and Coal Docks, Grain Elevators, etc., located on the Great Lakes.

The information contained herein has never before been published in such a complete form, by anyone, other than myself.

This Book is used and endorsed by all of the Ore and Coal Shippers, Ore and Coal Dock Operators, Grain Elevators, Vessel Managers and Brokers, Railroads, Marine Underwriters, Marine Supply Houses, etc., and it is the recognized authority on Marine Statistics. It is not my wish to do an injustice to anyone through any error which might occur in this Book, and in the event of such an occurrence I would deem it a favor to be promptly advised thereof.

I wish to extend my sincere thanks to my many friends who have so willingly assisted me in obtaining the information contained herein.

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W.  
Green**



**Rockefeller  
Bldg.**



**Cleveland,  
Ohio**

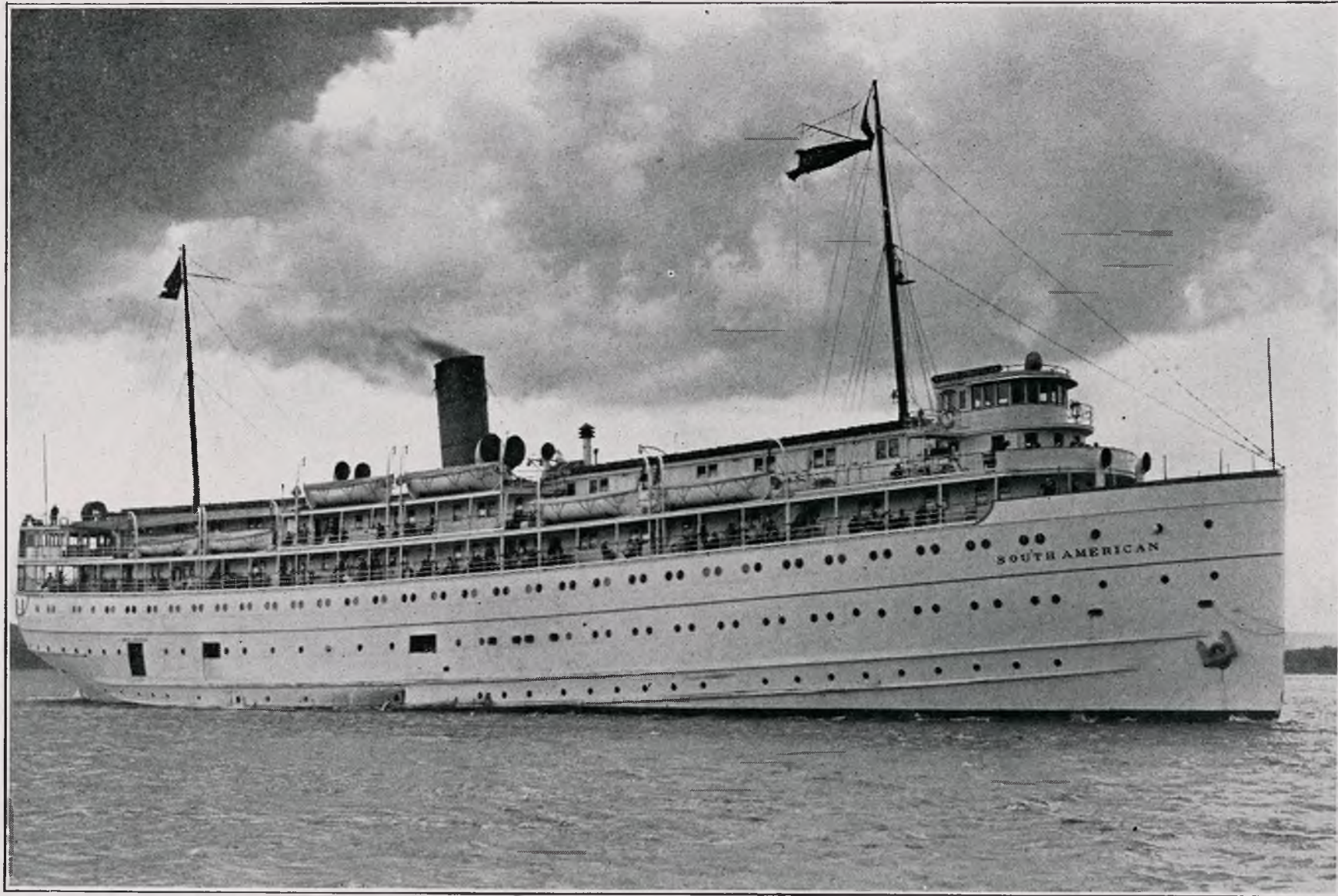


Photo by A. E. Young  
Soo, Mich.

**STEAMER SOUTH AMERICAN.**

Owned and operated by The Chicago, Duluth and Georgian Bay Transit Co., Chicago, Ill., running between Chicago, Duluth and Georgian Bay Ports.

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## OF COURSE IT LASTS!

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On the basis of cost per month of service, American Metal Hose is the least expensive Hose on the market to-day. Naturally it costs more at the start than Rubber Steam Hose, but you buy a whole lot less of it in the long run.

American Metal Hose is well known and highly thought of by the Great Lakes Steamship trade, the majority of the Transportation Companies having adopted it as standard Flue Cleaning Equipment on their boats.

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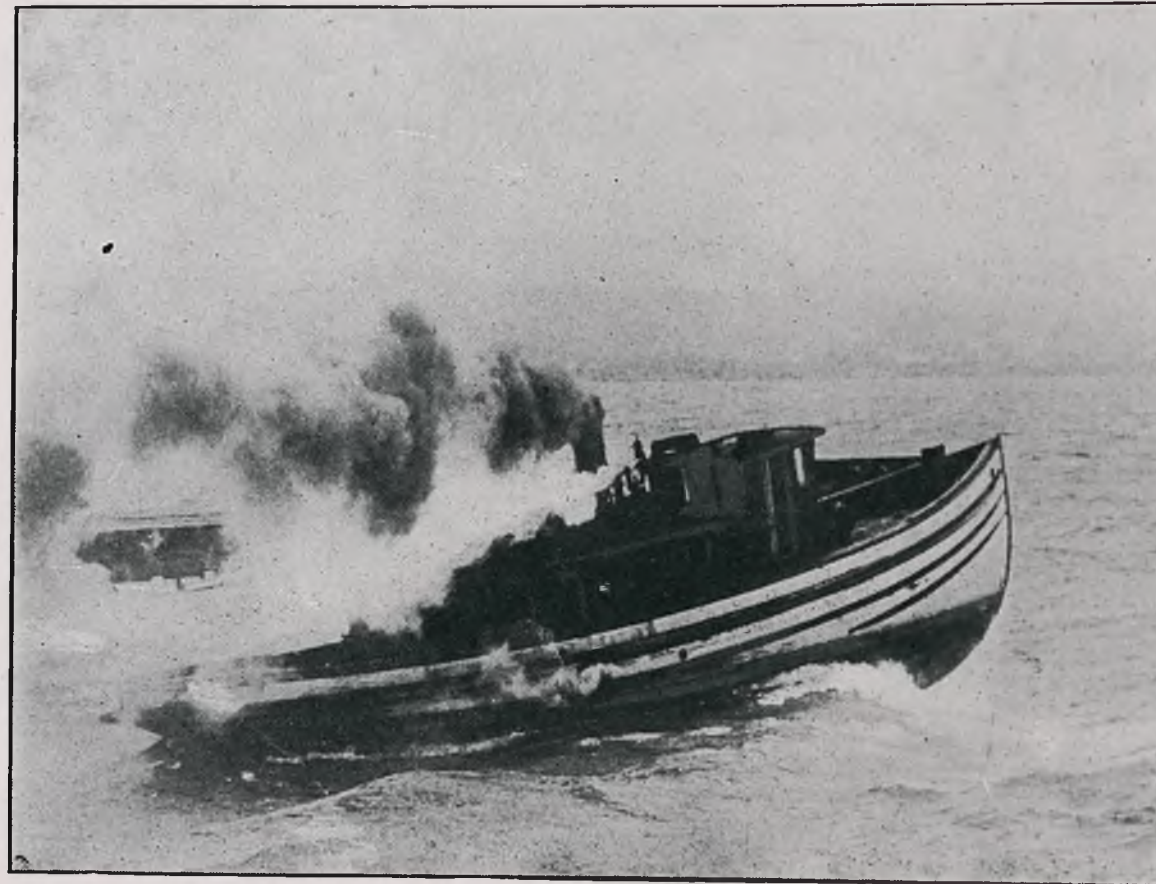
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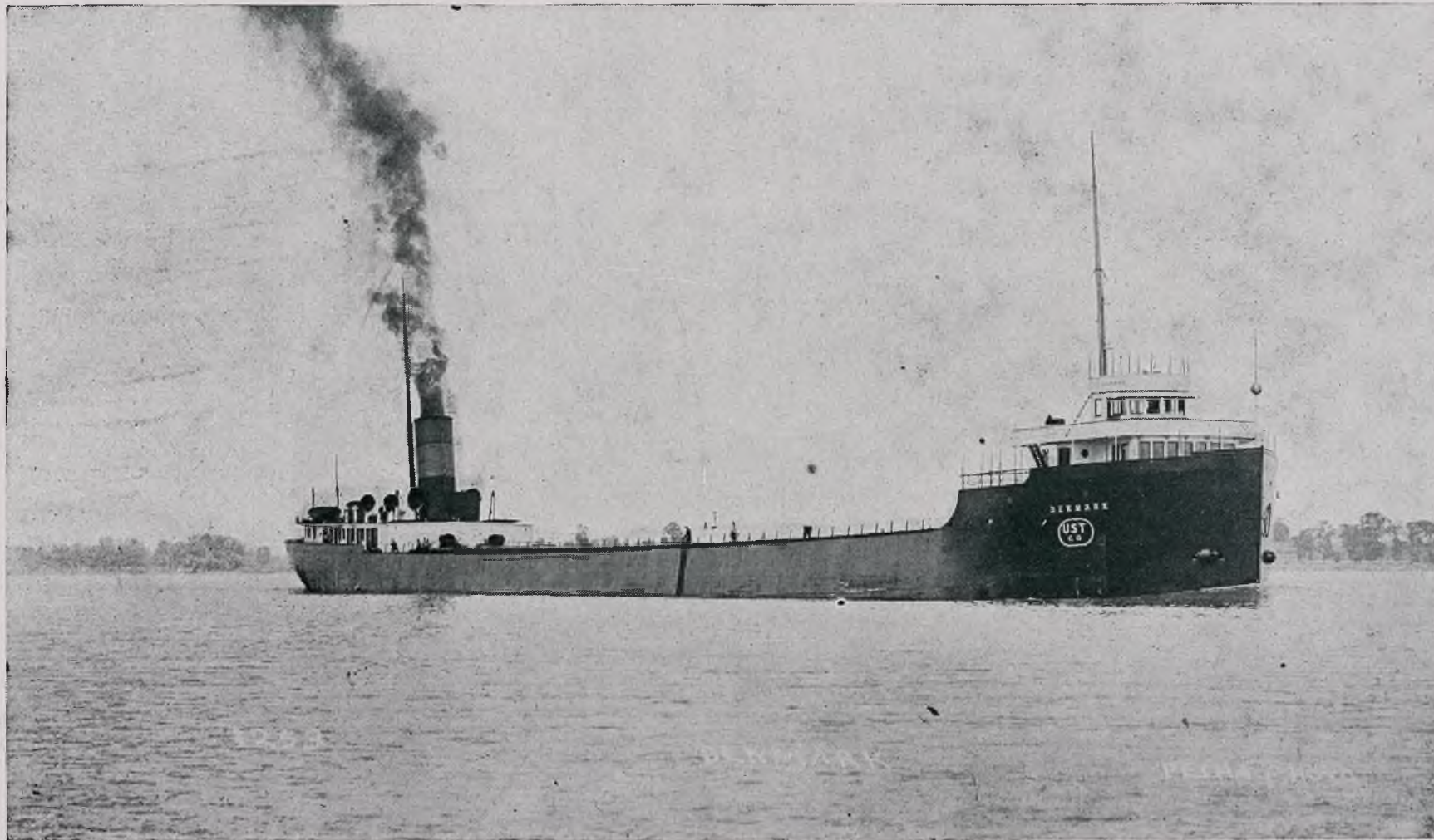
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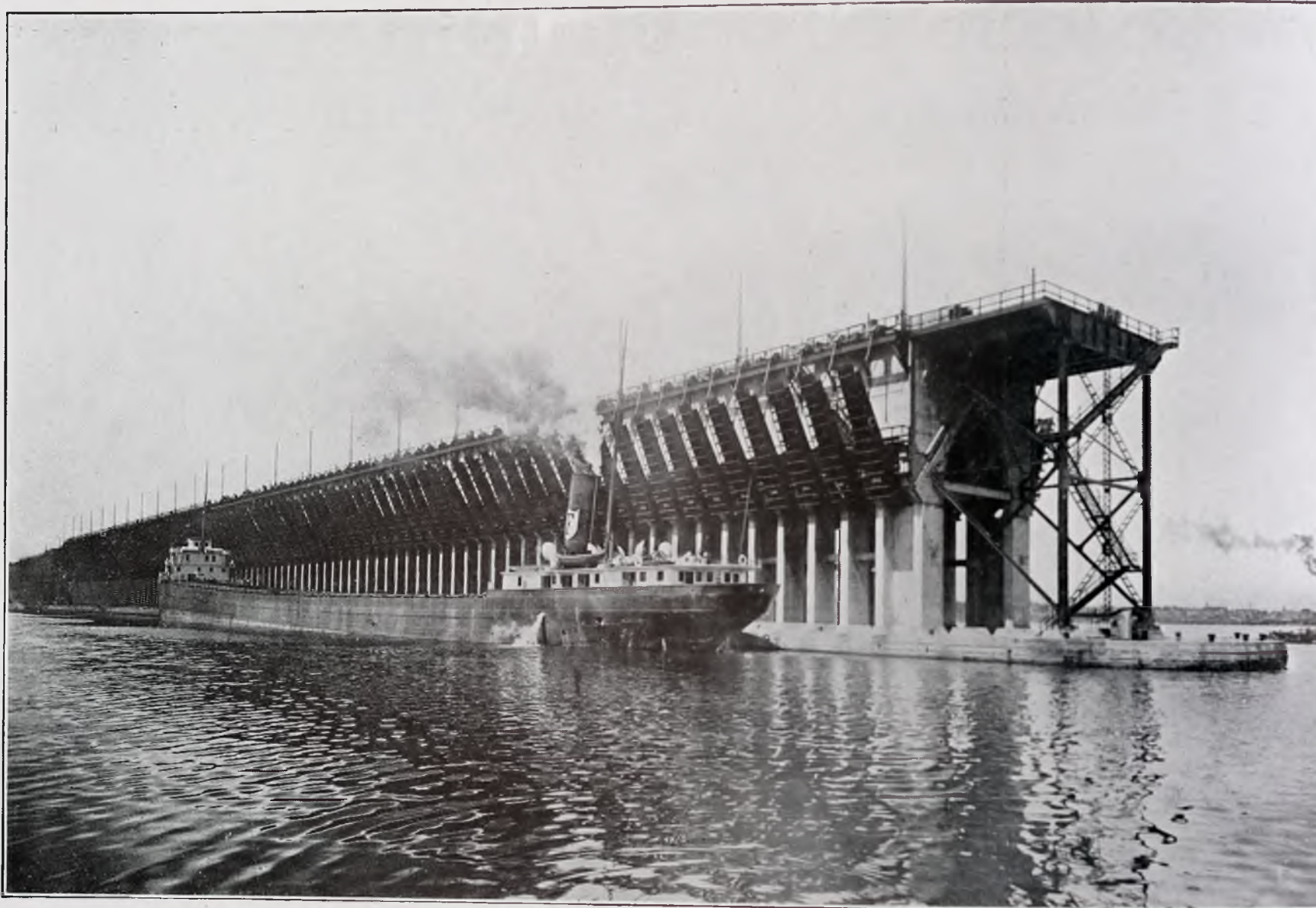
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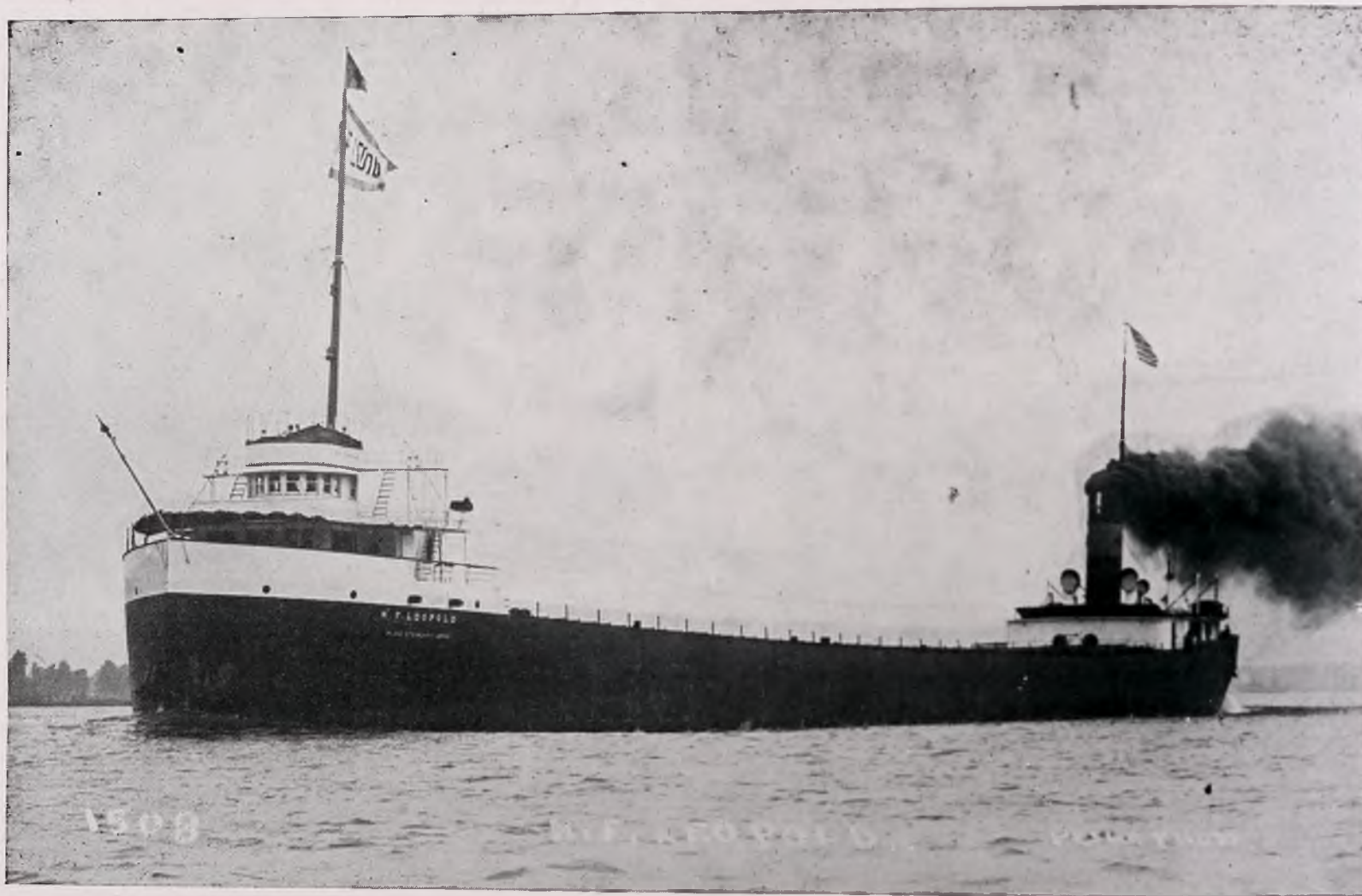
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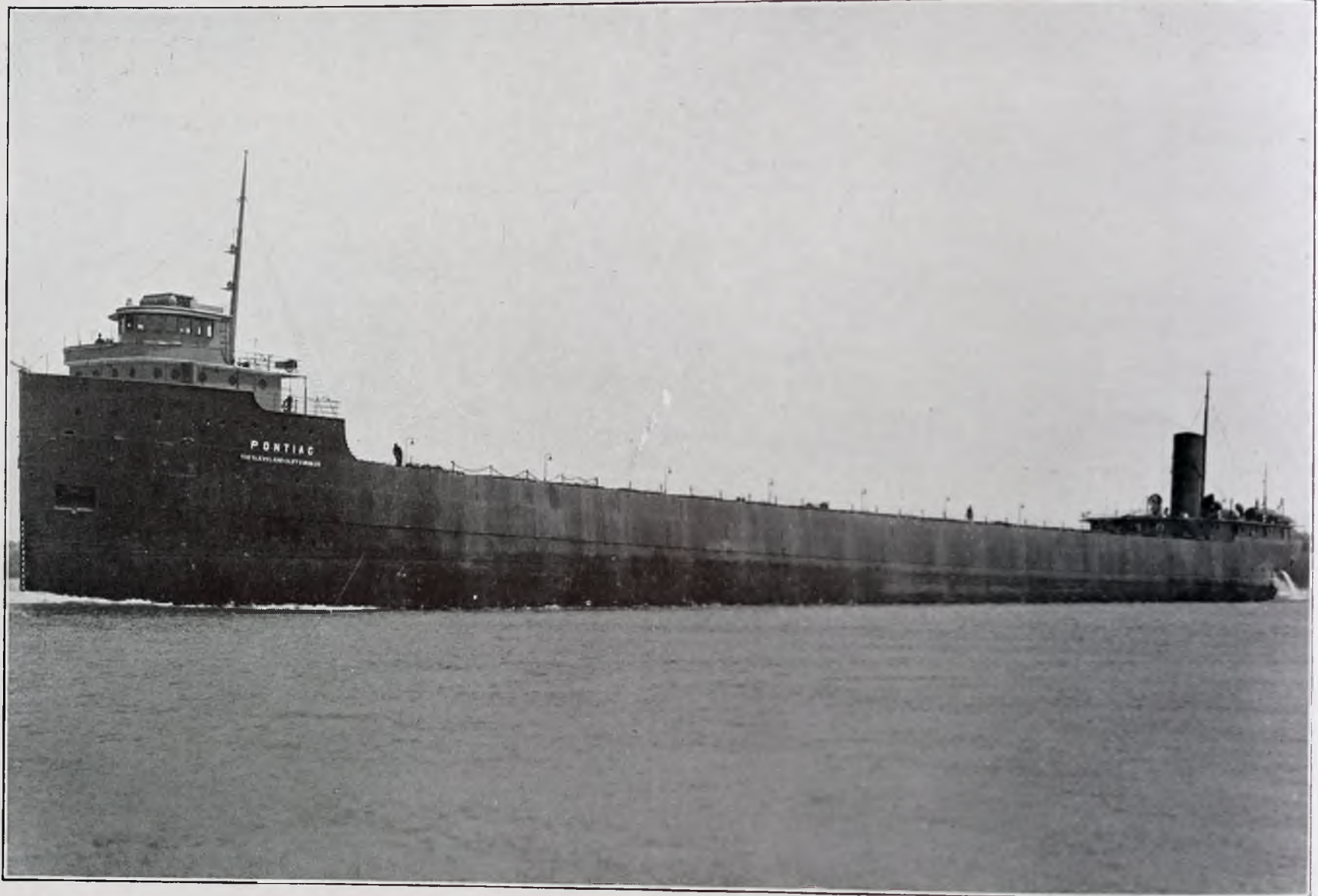


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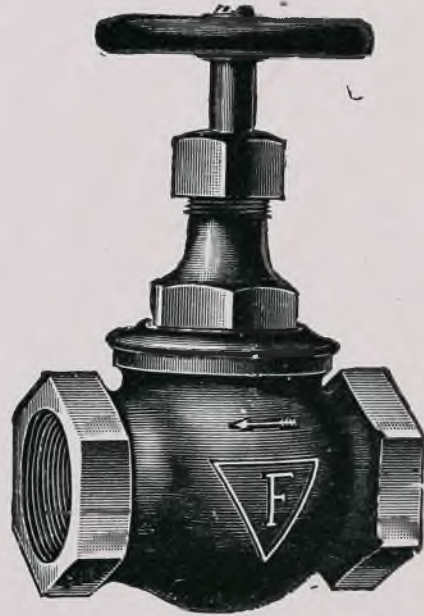
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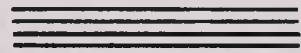
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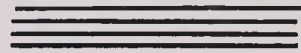
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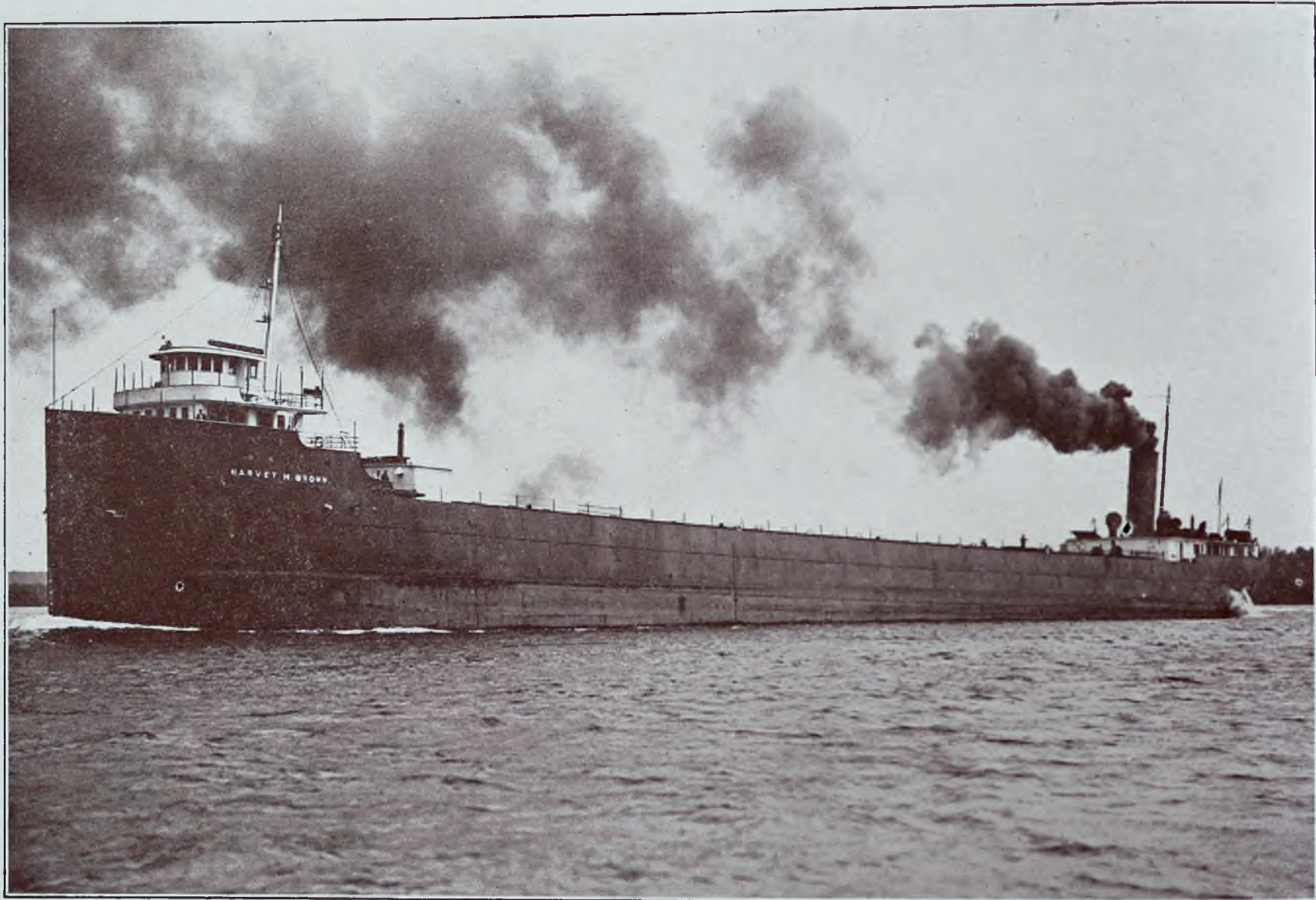


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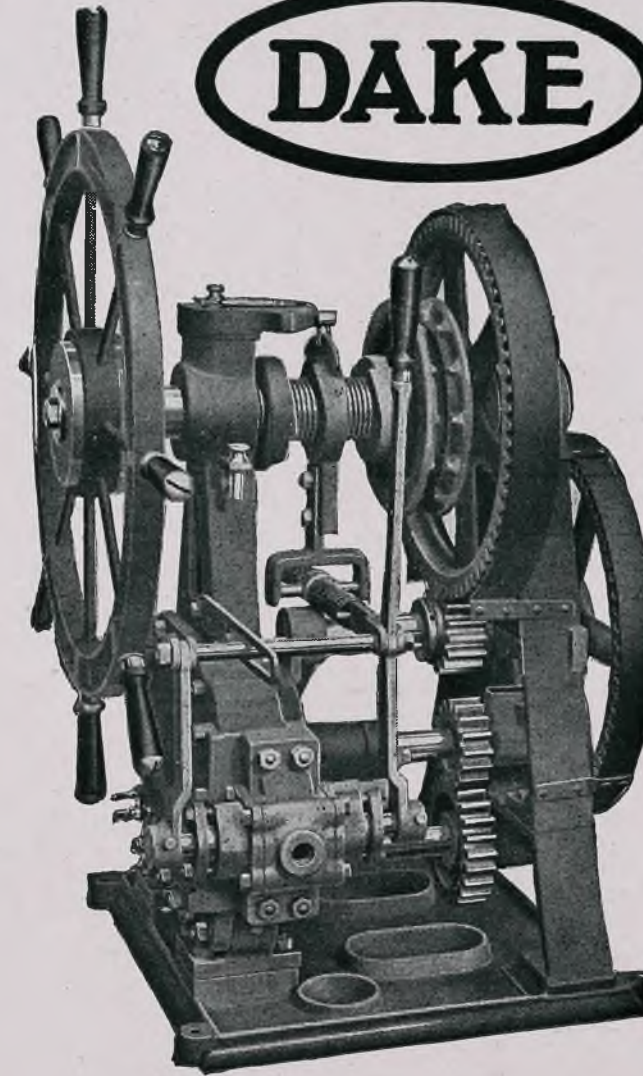
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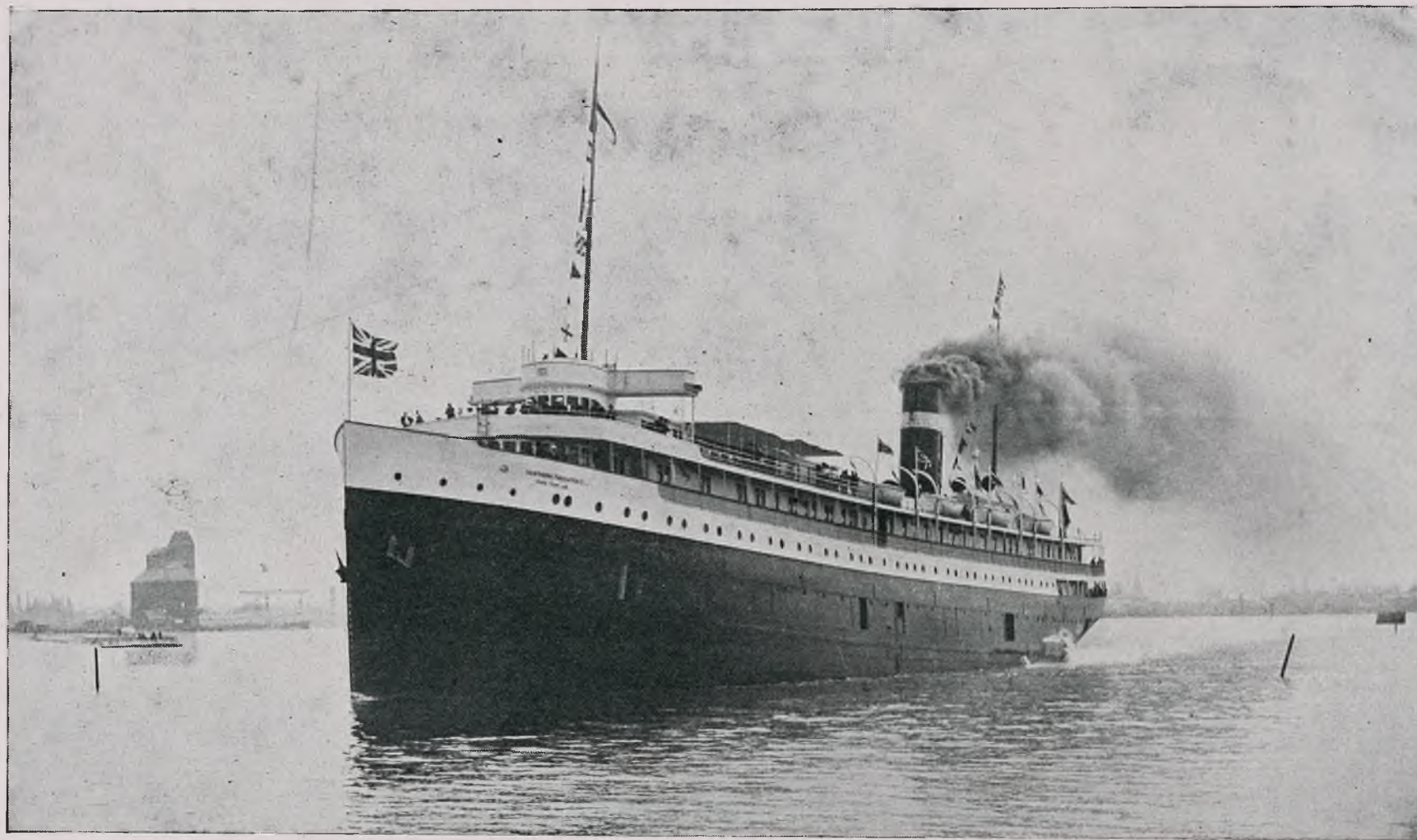
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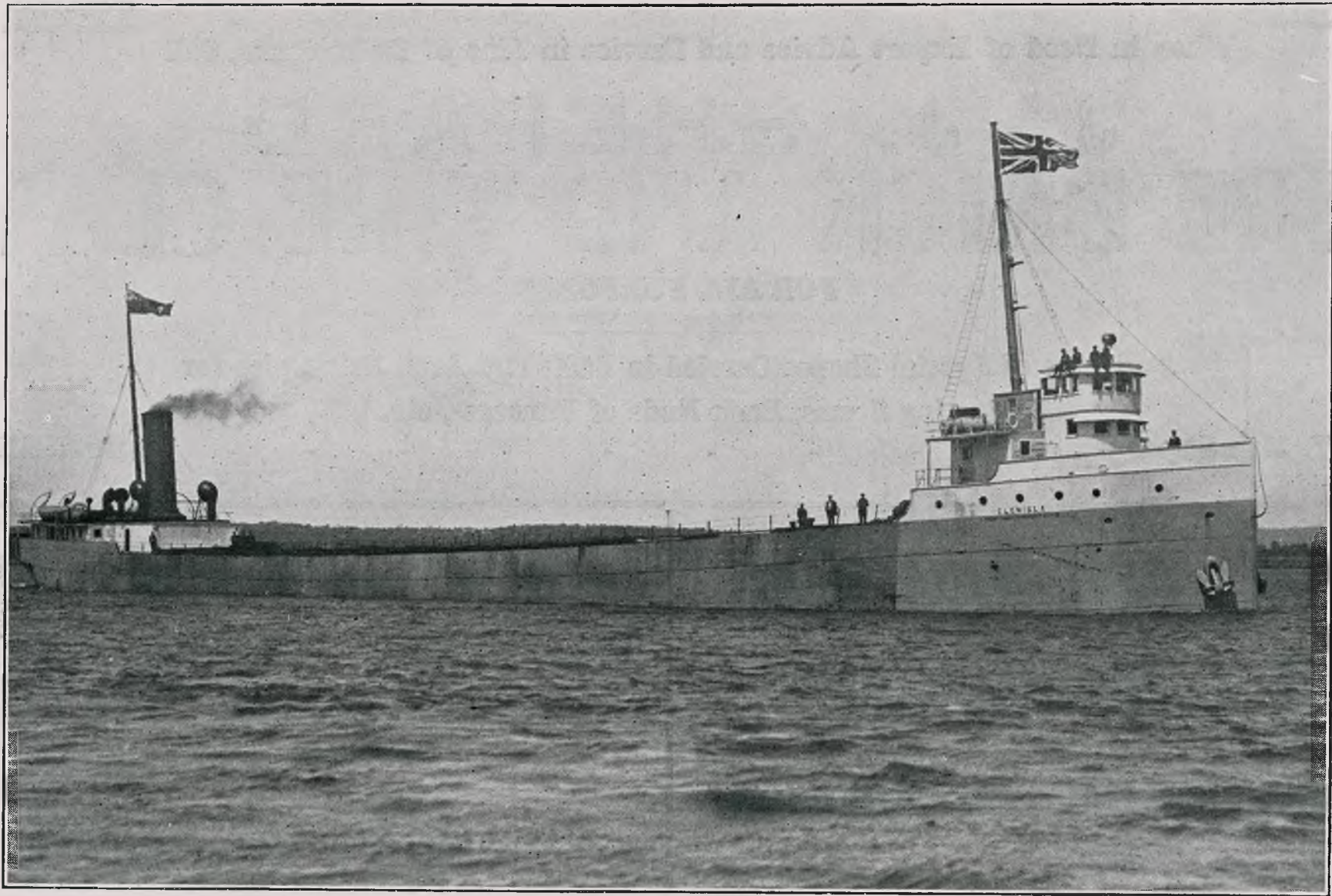
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| No. 1  | Acme Sand & Gravel Co., Cleveland, Ohio.<br>Str. Burnham, George.<br>Str. Mentor.  | No. 11 | Arnold Transportation Co., Mackinac Island, Mich.<br>Str. Chippewa.<br>Str. Elva.<br>Str. Islander.  |
| No. 2  | Algoma Central Steamship Line, W. J. McCormack, Supt.,<br>Sault Ste. Marie, Ont.<br>Str. Agawa.<br>Str. Franz, W. C.<br>Str. Taylor, J. Frater.<br>Str. Smith, Home. | No. 12 | Ashley & Dustin Steamer Line, Foot of First St., Detroit,<br>Mich.<br>Str. Kirby, Frank E.<br>Str. Put-in-Bay.   |
| No. 3  | Algoma Dredging Co., Ltd., Sault Ste. Marie, Ont.<br>Bge. McWilliam, Ed.   | No. 13 | Atkinson, W. G., Whitby, Ont.<br>Schr. Guido.  |
| No. 4  | Algoma Steel Corporation, Ltd., S. V. McLeod, Supt.,<br>Sault Ste. Marie, Ont.<br>Str. Wade, J. H.<br>Sault Shipping Co., Ltd.<br>Str. Valcartier.                   | No. 14 | Atlas Steamship Co., R. C. Helm, Mgr., Board of Trade,<br>Duluth, Minn.<br>Str. La Salle.<br>Str. Vulcan.  |
| No. 5  | American Box Co., Cleveland, Ohio.<br>American Transit Co.<br>Str. Stevens, Frank B.   | No. 15 | Atlas Transportation Corporation, Montreal, Canada.<br>Bge. Atlasco.<br>Bge. Carney, Fred.<br>Bge. Hector.<br>Bge. Ireland, Keldonan.<br>Bge. Menominee.<br>Bge. Rene, J. G.<br>Bge. Stephenson, Isaac.<br>Bge. Twin Sisters.<br>Bge. Warmington, G. H.<br>Bge. Woodlands. |
| No. 6  | American-Interlake Co., Cleveland, Ohio.<br>Str. Dawson, Sir Trevor.<br>Str. Stadacona.  | No. 16 | Barlum, J. J., Mgr., 354 Grand River Ave., Detroit, Mich.<br>Postal Steamship Co.<br>Str. Barlum, John J.<br>Str. Barlum, Thomas.  |
| No. 7  | Anderson, J. M., Chicago, Ill.<br>Schr. Carrier.   | No. 17 | Becker, William H., Mgr., Rockefeller Bldg., Cleveland,<br>Ohio.<br>Inter-State Steamship Co.<br>Str. Brower, A. G.  |
| No. 8  | Anderson, Wilbur, Marinette, Wis.<br>Schr. Grant, Levi.  |        |  |
| No. 9  | Armour Grain Co., Chicago, Ill.<br>Str. Helena.  |        |  |
| No. 10 | Argo Steamship Co., Rockefeller Bldg., Cleveland, Ohio.<br>Str. Argo.<br>Str. Langell, Simon.  |        |  |

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

<p>Str. Brown, W. W.            Str. Curry, S. S.            Str. Jones, B. F.            Str. King, Willis L.            Str. Laughlin, James.            Str. Miller, P. P.            Str. Walters, Thomas.            Str. Widlar, Francis.  <b>Valley Steamship Co.</b>            Str. Donaldson, John A.            Str. England, R. W.            Str. Grammer, G. J.            Str. Ohl, Edwin N.            Str. Pollock, W. G.            Str. Rhodes, Joshua W.            Str. Robbins, Francis L.            Str. Thompson, Alexis W.</p>	<p>Bge. Reddington, Nellie.            Bge. Woolson, Mary.</p>
<p>No. 18 <b>Benton Transit Co.</b>, Benton Harbor, Mich.            Str. Woods, Frank.</p>	<p>No. 21 <b>Boland, John A.</b>, Ellicott Sq., Buffalo, N. Y.  <b>Nyanza Transit Corporation.</b>            Str. Landbo.</p>
<p>No. 19 <b>Bielman, C. F.</b>, Detroit, Mich.            Str. Bielman, Jr., C. F.</p>	<p>No. 22 <b>Boland, John J.</b>, Prudential Bldg., Buffalo, N. Y.            Bge. Jennette.</p>
<p>No. 20 <b>Blodgett, O. W.</b>, Lyceum Bldg., Duluth, Minn.            Str. Bradley, C. H.            Str. Myron.            Str. Ralph, P. J.            Str. Zillah.            Bge. Arthur.            Bge. Brightie.            Bge. Delaware.            Bge. Goshawk.            Bge. Holland, N. C.            Bge. Miztec.            Bge. Page, M. W.            Bge. Peshtigo.</p>	<p>No. 23 <b>Boland &amp; Cornelius, Mgrs.</b>, Prudential Bldg., Buffalo, N. Y.  <b>American Steamship Co.</b>            Str. Boland, John J.            Str. Booth, Edwin L.            Str. Cornelius, Adam E.            Str. Davidson, L. R.            Str. Kopp, Jacob T.            Str. Moll, Clifford F.            Str. Reeb, M. A.            Str. Roberts, W. T.            Str. Wickwire, T. H.            Str. Wickwire, Jr., T. H.            Str. Yates, Harry.  <b>Rochester Steamship Co.</b>            Str. Niagara.</p>
	<p>No. 24 <b>Bonin, Alfred</b>, Lanoraie, Que.            Bge. Freeport.</p>
	<p>No. 25 <b>Booth Fisheries Co.</b>, Majestic Bldg., Chicago, Ill.            Str. America.            Str. Barker, S. B.            Str. Moore, C. W.</p>
	<p>No. 26 <b>Bourasso, Jas.</b>, Houghton, Mich.            Str. Hayes, R. B.</p>

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

- |  |  |
|--|--|
| <p>No. 27 <b>Boynton, L. R., Mgr., St. Ignace, Mich.</b><br/> <b>Island Transportation Co.</b><br/>           Str. Algolah.<br/>           Str. Wau-Kon.<br/>           Str. Chief Wawatam.</p>  | <p>No. 35 <b>Burns, Richard, 153 Ohene St., Detroit, Mich.</b><br/>           Bge. Lozen, J. B.</p>  |
| <p>No. 28 <b>Bradley, Carl D., Mgr., Rogers City, Mich.</b><br/> <b>Bradley Transportation Co.</b><br/>           Str. Bradley, Carl D.<br/> <b>Limestone Transportation Co.</b><br/>           Str. White, W. F.</p>  | <p>No. 36 <b>Cadillac Builders Supply Co., Detroit, Mich.</b><br/>           Str. Markham, Geo. C.</p>   |
| <p>No. 29 <b>Brady Bros., N. Tonawanda, N. Y.</b><br/>           Str. United Lumberman.</p>  | <p>No. 37 <b>Calcite Transportation Co., D. R. Parsons, Mgr., Foot Orleans St., Detroit, Mich.</b><br/>           Str. Calcite.</p>  |
| <p>No. 30 <b>Brown &amp; Co., Mgrs., Chamber of Commerce, Buffalo, N. Y.</b><br/> <b>Brown Steamship Co.</b><br/>           Str. Brown, J. J. H.<br/> <b>Empire Steamship Co.</b><br/>           Str. Truesdale, Wm. H.</p>  | <p>No. 38 <b>Canada Atlantic Transit Co., Canadian Express Bldg., Montreal, Can.</b><br/>           Str. Kearsarge.<br/>           Str. Orr, Arthur.</p>   |
| <p>No. 31 <b>Brown &amp; Co., H. H., Rockefeller Bldg., Cleveland, Ohio.</b><br/> <b>Brown Transit Co.</b><br/>           Str. Brown, Fayette.<br/> <b>Merrimac Steamship Co.</b><br/>           Str. Bradley, M. A.<br/> <b>Headwaters S. S. Co.</b><br/>           Str. Brown, Harvey H.<br/>           Str. Croft, Harry W.</p> | <p>No. 39 <b>Canada Shipping Co., Ltd., Montreal, Canada.</b><br/>           Str. Omaha.</p>   |
| <p>No. 32 <b>Brown, Lawrence D., 11312 Clifton Blvd., Cleveland, Ohio.</b><br/>           Str. Aztec.</p>  | <p>No. 40 <b>Canada Starch Co., Ltd., 164 St. James St., Montreal, Canada.</b><br/>           Str. Holcombe, Ralph T.</p>  |
| <p>No. 33 <b>Brown, W. C., Plymouth, Mich.</b><br/>           Str. Helen C.</p>  | <p>No. 41 <b>Canada Steamship Lines, Ltd., J. W. Norcross, Managing Director, Montreal, Canada, H. W. Cowan, Operating Supt., Toronto, Ont.</b><br/>           Str. Bickerdike.<br/>           Str. Cadillac.<br/>           Str. Calgarian.<br/>           Str. City of Hamilton.<br/>           Str. City of Ottawa.<br/>           Str. Collingwood.<br/>           Str. Emperor.<br/>           Str. Fairfax.<br/>           Str. Haddington.<br/>           Str. Hagarty, J. H. G.<br/>           Str. Hamiltonian.<br/>           Str. Iroquois.<br/>           Str. Juno.</p> |
| <p>No. 34 <b>Buckeye Lake Sand &amp; Gravel Co., Sandusky, Ohio.</b><br/>           Str. Groh, Mary.</p>   |  |

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

Str. Martian.  
 Str. Matthews, W. D.  
 Str. Midland Prince.  
 Str. Midland King.  
 Str. Morden, W. G.  
 Str. Osler, E. B.  
 Str. Sarnian.  
 Str. Seguin.  
 Str. Water Lily.  
 Str. Wyoming.  
 Bge. Brookdale.  
 Bge. Pennington, B. L.  
 Bge. Reed, Isabella.  
 Bge. Rickarton.  
 Bge. Wayne.

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H. H. Gildersleeve, Mgr., Sarnia, Ont.

Str. Doric.  
 Str. Hamonic.  
 Str. Huronic.  
 Str. Ionic.  
 Str. Noronic.  
 Str. Rochester.  
 Str. Waubic.

(Richelieu & Ontario Division)

T. Henry, Supt., Montreal, Canada.

Str. Aletha.  
 Str. America.  
 Str. Belleville.  
 Str. Boucherville.  
 Str. Brockville.  
 Str. Kingston.  
 Str. Montreal.  
 Str. Murray Bay.  
 Str. New Island Wanderer.  
 Str. News Boy.

Str. Quebec.  
 Str. Ramonia.  
 Str. Rapids King.  
 Str. Rapids Prince.  
 Str. Rapids Queen.  
 Str. St. Irene.  
 Str. St. Lawrence.  
 Str. Saguenay.  
 Str. Syracuse.  
 Str. Tadausac.  
 Str. Thousand Islander.  
 Str. Trois Rivieres.  
 Str. Varuna.

(Turret Crown, Ltd.)

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- No. 42 Canada Steamship Lines, Ltd., Montreal, Canada.  
 Otter Navigation Co.  
 Str. Nipigon.
- No. 43 Canadian Oil Companies, Ltd., Toronto, Ont.  
 Sarnia-Toledo Transit Co., Ltd.  
 Bge. Calvert, W. S.
- No. 44 Canadian Import Co., Ltd., Montreal, Canada.  
 Webster Steamship Co.  
 Str. Colin W.  
 Str. Howard W.  
 Str. Marian W.  
 Str. Packer, H. E.  
 Str. Richard W.  
 Str. Stuart W.
- No. 45 Canadian Pacific Car & Passenger Transfer Co., Ltd.,  
 Prescott, Ont.  
 Str. Lyon, Charles.



ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

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|---|--|
| <p>No. 46 Canadian Pacific Railway Co., Owen Sound, Ont.<br/>           Str. Alberta.<br/>           Str. Assiniboia.<br/>           Str. Athabasca.<br/>           Str. Kewatin.<br/>           Str. Manitoba.</p> | <p>No. 56 Chesborough, A. M., Emerson, Mich.<br/>           Schr. Skeelee, Edw. E.</p>   |
| <p>No. 47 Canadian Pacific Railway Co., Windsor, Ont.<br/>           Str. Michigan.<br/>           Str. Ontario.</p>  | <p>No. 57 Chew, Manley, Midland, Ont.<br/>           Str. Schoolcraft.</p>   |
| <p>No. 48 Carrollton Steamship Co., Saginaw, Mich.<br/>           Str. Langell Boys.</p>  | <p>No. 58 Chicago Lighterage Co., Chicago, Ill.<br/>           Str. Seymour, Jr., R. A.<br/>           Bge. York State.</p>  |
| <p>No. 49 Cavanaugh, W. P., Bay City, Mich.<br/>           Sch. Weaver, Jennie.</p>   | <p>No. 59 Chicago, Duluth &amp; Georgian Bay Transit Co., R. C. Davis,<br/>           Mgr., 314 So. Clark, Chicago, Ill.<br/>           Str. North American.<br/>           Str. South American.</p>   |
| <p>No. 50 Cedar Point Resort Co., Sandusky, Ohio.<br/>           Str. Boeckling, G. A.<br/>           Str. Wehrle, Jr., A.</p>  | <p>No. 60 Chicago &amp; So. Haven Line, 7 Rush St., Chicago, Ill.<br/>           Str. Petoskey.<br/>           Str. City of So. Haven.</p>   |
| <p>No. 51 Central Canada Coal Co., Ltd., Brockville, Ont.<br/>           Bge. Georger, F. A.</p>  | <p>No. 61 Citizens Sand &amp; Gravel Co., Capt. C. E. LeBeau, Mgr.,<br/>           Foot Magnolia St., Toledo, Ohio.<br/>           Str. Sawyer, Philetus.<br/>           Tug LeBeau, C. E.<br/>           Bge. Jones, C. B.</p>  |
| <p>No. 52 Central Contracting Co., Ltd., C. E. Smith, Mgr., Ft. Wil-<br/>           liam, Ont.<br/>           Central S. S. Co.<br/>           Str. Gogebic.<br/>           Bge. Crete.</p>                         | <p>No. 62 Cleland, Herbert, Collingwood, Ont.<br/>           Georgian Bay Navigation Co.<br/>           Str. Soo City.</p>   |
| <p>No. 53 Charcoal Iron Co. of America, H. H. Bingham, Mgr.,<br/>           Detroit, Mich.<br/>           Str. Griffin.</p>   | <p>No. 63 Cleveland-Cliffs Iron Co., Rockefeller Bldg., Cleveland,<br/>           Ohio.<br/>           Grand Island Steamship Co.<br/>           Str. Andaste.<br/>           Str. Cadillac.<br/>           Str. Grand Island.<br/>           Str. Ishpeming.<br/>           Str. Mather, W. G.<br/>           Str. Marquette.<br/>           Str. Michigan.</p> |

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

- Str. Munising.  
Str. Negaunee.  
Str. Pioneer.  
Str. Pontiac.  
Str. Sheadle, J. H.  
**Presque Isle Trans. Co.**  
Str. Angeline.  
Str. Presque Isle.  
Str. White, Peter.
- No. 64 **Cleveland-Cliffs Iron Co., Mgrs., Rockefeller Bldg., Cleveland, Ohio.**  
**Paisley Steamship Co.**  
Str. Central West.  
Str. Panay.  
Str. Paisley, Robert R.  
Str. Schenider, Cletus.  
Str. Wesee.  
**Morrow S. S. Co.**  
Str. Breitung, C. G.  
Str. Luzon.  
Str. Morrow, John L.  
Bge. Hartnell, G. E.
- No. 65 **Cleveland & Buffalo Transit Co., Cleveland, Ohio.**  
Str. City of Buffalo.  
Str. City of Erie.  
Str. Seeandbee.  
Str. State of Ohio.
- No. 66 **Cleveland Transportation Co., A. E. R. Schneider, Mgr., Rockefeller Bldg., Cleveland, Ohio.**  
Str. Lewiston.
- No. 67 **Clow, J. M. & D. D., Marinette, Wis.**  
Str. Liberty.
- No. 68 **Clow & Nicholson, Duluth, Minn.**  
Str. Chicora.
- No. 69 **Connolly, H. M., Montreal, Canada.**  
Str. City of London.
- No. 70 **Construction Materials Co., 109 N. Dearborn, Chicago, Ill.**  
Str. Barth, L. L.
- No. 71 **Collingwood Shipbuilding Co., Ltd., Collingwood, Ont.**  
Str. Atikoken.
- No. 72 **Collingwood Steamship Co., Ltd., Collingwood, Ont.**  
Str. City of Meaford.
- No. 73 **Crosby Transportation Co., Milwaukee, Wis.**  
Str. Conestoga.  
Str. Holland.  
**Davidson Steamship Co.**  
Str. Davidson, Thomas.  
**Livingstone Steamship Co.**  
Str. Livingstone.
- No. 74 **Crosthwaite, J. L., 15 Broad St., New York City.**  
Bge. Buckeye State.  
Bge. Harrison, Ben.
- No. 75 **Cuyahoga Lumber Co., 1948 Carter Road, Cleveland, Ohio.**  
**Lake Steamship Co.**  
Str. Starke, C. H.
- No. 76 **Daryaw, Henry, Wolf Island, Ont.**  
Schr. Ford River.
- No. 77 **Davidson, James, Bay City, Mich.**  
Str. Orinoco.  
Str. Sacramento.  
Str. Shenandoah.  
Bge. Chieftain.  
Bge. Grampian.  
Bge. Granada.  
Bge. Matanzas.

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

<p><b>Bge. Montezuma.</b></p>	<p><b>Str. Eastern States.</b> <b>Str. Western States.</b></p>
<p>No. 78 Davidson &amp; Smith, Port Arthur, Ont. Str. Fryer, R. L.</p>	<p>No. 84 Desrosler, Zenon St. Joseph, Sorel, Que. Bge. Kahtadin.</p>
<p>No. 79 Davis Ship Bldg. Co., Ltd., Montreal, Canada. Str. North Land.</p>	<p>No. 85 Diamond Crystal Salt Co., St. Clair, Mich. Douglass Transit Co. Str. Colborn, A. R. Str. Hilton.</p>
<p>No. 80 Desrosiers, Alexandre, Lanoraie, Que. Schr. Lyon, Mary.</p>	<p>No. 86 Dominion Iron &amp; Steel Co., Ltd., Sydney, Cape Briton. Str. Corunna. Str. Nevada.</p>
<p>No. 81 Detroit Sulphite Pulp &amp; Paper Co., Delray Sta., Detroit, Mich. Str. Green, C. H. Bge. Auburn. Bge. Francombe, J. A. Bge. Kennedy, W. L. Bge. Our Son.</p>	<p>No. 87 Dominion Transportation Co., Ltd., Sault Ste. Marie, Mich. Str. Caribou. Str. Manitou.</p>
<p>No. 82 Detroit &amp; Windsor Ferry Co., Detroit, Mich. Str. Britannia. Str. Columbia. Str. Excelsior. Str. Garland. Str. Pontiac. Str. Pleasure. Str. Promise. Str. Sappho. Str. St. Clair. Str. Victoria.</p>	<p>No. 88 Donnelley Salvage &amp; Wrecking Co., Ltd., Kingston, Ont. Bge. Harriet D.</p> <p>No. 89 Doville Lake Sand &amp; Gravel Co., Toledo, Ohio. Str. Commerce. Str. DoVille, R. E.</p>
<p>No. 83 Detroit &amp; Cleveland Navigation Co., Detroit, Mich. Str. City of Alpena II. Str. City of Cleveland III. Str. City of Detroit III. Str. City of Detroit II. Str. City of Mackinac II. Str. City of St. Ignace.</p>	<p>No. 90 Durocher, T. L., Detour, Mich. Bge. Holland, Grace.</p> <p>No. 91 Eliasapp &amp; Co., 344 Delorimier Ave., Montreal, Que. Str. Marshall, Sam'l.</p> <p>No. 92 Emig, T., St. Clair, Mich. Str. Fitzgerald, R. P.</p> <p>No. 93 Erie Transportation Co., Erie, Pa. Str. Tourist.</p>

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

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| No. 94  | Erie & Michigan Ry. & Nav. Co., E. E. Wilhelm, Mgr., 108<br>So. LaSalle St., Chicago, Ill.<br>Str. Greene, M. T.   | No. 104 | Gillen, Edward, Racine, Wis.<br>Str. Rudolph, William.<br>Bge. Progress.  |
| No. 95  | Escanaba & Garden Bay Trans. Co., Escanaba, Mich.<br>Str. Saugatuck.   | No. 105 | Genzel, John, Wyandotte, Mich.<br>Str. Douglass.  |
| No. 96  | Ewing & Co., R. B., Saginaw, Mich.<br>Str. Miami.<br>Bge. Mueller.   | No. 106 | Gillingham, J. H., Alpena, Mich.<br>Schr. Day, Eliza.   |
| No. 97  | Fagen, Capt. Joe, Belleville, Ont.<br>Schr. Filer, Grace M.  | No. 107 | Gleason, Frederick D., 28 Campau Bldg., Detroit, Mich.<br>Str. Harlow.  |
| No. 98  | Finn & Olsen Freighting Co., Marinette, Wis.<br>Schr. Stevens, J. H.<br>Schr. Joses.<br>Str. Neff, S. O.   | No. 108 | Goodwin, Jas., Toronto, Ont.<br>Schr. Ada, Alice.   |
| No. 99  | Foss & Co., E. B., Bay City, Mich.<br>Bge. Filmore, C. J.  | No. 109 | Goodrich Transit Co., Foot Michigan Ave., Chicago, Ill.<br>Str. Alabama.<br>Str. Arizona.<br>Str. Carolina.<br>Str. Chicago.<br>Str. Christopher Columbus.<br>Str. Georgia.<br>Str. Indiana.<br>Str. State of New York. |
| No. 100 | Frazer-Brace & Co., Ltd., Montreal, Canada.<br>Str. Newona.  | No. 110 | Graham, Colin, Kincardine, Ont.<br>Bge. Davis, Lyman C.   |
| No. 101 | Garey, J. C., Saginaw, Mich.<br>Str. Ogemaw.   | No. 111 | Graham & Morton Trans. Co., Chicago, Ill.<br>Str. City of Benton Harbor.<br>Str. City of Grand Rapids.<br>Str. City of St. Joseph.<br>Str. Puritan.   |
| No. 102 | General Electric Co., Schenectady, N. Y.<br>Bge. Acacia.<br>Bge. Jessie.   | No. 112 | Gordan, D. A., Wallaceburg, Ont.<br>Bge. Casey, Lyman C.  |
| No. 103 | General Transit Co., C. W. Bryson, Mgr., Leader-News<br>Bldg., Cleveland, Ohio.<br>Str. Maytham, Thomas.<br>Str. Mecosta.<br>Str. Oglebay, E. W.<br>Bge. Tyrone. |         |   |

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

No. 113 Grand Trunk Railway Co., Windsor, Ont.  
 Str. Great Western.  
 Str. Huron.  
 Str. Landsdowne.

No. 114 Granville, Frank, Chatham, Ont.  
 Schr. Hutt, Hattie.

No. 115 Great Lakes Steamship Co., Rockefeller Bldg., Cleveland,  
 Ohio.

Str. Belgium.  
 Str. Couiby, Harry.  
 Str. Cowle, J. B.  
 Str. Denmark.  
 Str. Dunn, Jr., John.  
 Str. Durstin, J. F.  
 Str. Hubbard, Charles.  
 Str. Leonard, G. B.  
 Str. Nettleton, A. E.  
 Str. Norway.  
 Str. Nottingham, Wm.  
 Str. Smith, B. Lyman.  
 Str. Smith, H. W.  
 Str. Smith, L. C.  
 Str. Smith, M. C.  
 Str. Smith, W. L.  
 Str. Sweden.  
 Str. Thompson, Smith.  
 Str. Warner, C. M.  
 Str. Wilkinson, H. S.

No. 116 Great Lakes Towing Co., Cleveland, Ohio.  
 Str. Favorite.

No. 117 Great Lakes Transit Corporation, Buffalo, N. Y.  
 Str. Allegheny.  
 Str. Boston.

Str. Buffalo.  
 Str. Chicago.  
 Str. Conemaugh.  
 Str. Cooke, D. W.  
 Str. Delaware.  
 Str. Duluth.  
 Str. Juniata.  
 Str. Milwaukee.  
 Str. Muncy.  
 Str. North Lake.  
 Str. North Sea.  
 Str. North Star.  
 Str. Octorora.  
 Str. Rochester.  
 Str. Superior.  
 Str. Tionesta.  
 Str. Troy.  
 Str. Underwood, F. D.  
 Str. Utica.  
 Str. Wissahickon.

No. 118 Hall Coal Co., Geo., of Canada, Ltd., McGill Bldg., Mon-  
 treal, Canada.

Str. Cabotia.  
 Str. Compton.  
 Tug Florence.  
 Str. Follette, J. W.  
 Tug Hackett, H. J.  
 Tug Hackett, M. A.  
 Str. Ketchum, 2d, J. B.  
 Str. Rhodes, R. R.  
 Str. Rock Ferry  
 Str. Senator Derbyshire.  
 Bge. A. D.  
 Bge. Ewen, F. D.  
 Bge. Gladys H.  
 Bge. Katie H.

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

Bge. Zapotec.

No. 119 Hall Coal Co., Geo., Ogdensburg, N. Y.  
 Str. Hecla.  
 Str. Kendall, H. J.  
 Str. Liberty.  
 Str. Mercur, Fred.  
 Str. Rugee, John.  
 Bge. Mathews, Jennie.  
 Bge. Sherman, W. A.

No. 120 Hammermill Paper Co., Erie, Pa.  
 Str. Harriet B.  
 Str. Jacob, C. W.

No. 121 Hamilton Transportation Co., 2431 South Lincoln Ave.,  
 Chicago, Ill.  
 Str. Buel, F. R.  
 Str. Niko.  
 Str. Pahlow, Lewis.  
 Str. Sawyer, W. H.  
 Bge. Ashland.  
 Bge. Case, J. I.  
 Bge. Delta.  
 Bge. Interlaken.  
 Bge. Norris, A. B.  
 Bge. Redfern, C. E.  
 Bge. Tuxberry, A. C.

No. 122 Hanelin & Brunelle, Champlain, Ont.  
 Str. Baine, Jessie.

No. 123 Hanna & Co., M. A., Leader-News Bldg., Cleveland, Ohio.  
 Calumet Transportation Co.  
 Str. Agassiz, R. L.

Str. Saunders, Jr., E. N.  
 Str. Shaw, Q. A.  
 Str. Turner, J. J.  
 Uhrig, Edw. A.  
 Bge. Thompson, A. W.

**Cambria Steamship Co.**  
 Str. Morrell, D. J.  
 Str. Townsend, E. Y.

**Donner Steamship Co.**  
 Str. Black, H. F.

**Eastern Steamship Co.**  
 Str. Wood, Joseph.

**Johnstown Steamship Co.**  
 Str. Midvale.  
 Str. Morris, Effingham B.  
 Str. Newbold, Arthur E.  
 Str. Replogle, J. Leonard.  
 Str. Rogers, Wm. A.  
 Str. Slick, Edwin E.

**LaBelle Steamship Co.**  
 Str. LaBelle.

**Mahoning Steamship Co.**  
 Str. Hanna, L. C.  
 Str. Donner, W. H.  
 Str. Stackhouse, Powell.

**Producers S. S. Co.**  
 Str. Amberg, Wm. A.  
 Str. Hill, Lewis W.  
 Str. Thompson, Carmi A.

**Republic Transportation Co.**  
 Str. Brown, W. L.  
 Str. Elphicke, Mary C.  
 Str. French, G. Watson.

**Virginia Steamship Co.**  
 Str. Crawford, W. D.

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

- No. 124 Harbor Commissioners, Montreal, Canada.  
Str. Aberdeen.
- No. 125 Harkness & Storey, Point Edward, Ont.  
Bge. Taber, Horace.
- No. 126 Hart Transportation Co., Sturgeon Bay, Wis.  
Str. Bon Ami.  
Str. Sailor Boy.  
Str. Thistle.
- No. 127 Hettler Lumber Co., Elston Ave., Chicago, Ill.  
Str. Christie, T. S.  
Str. Hettler, H. H.
- No. 128 Hickley, John, Sault Ste. Marie, Mich.  
Str. Minnie M.
- No. 129 Hill Steamboat Line, Kenosha, Wis.  
Str. City of Marquette.  
Str. Charles McVea.
- No. 130 Hinckley Cornwall Forwarding Co., Alexandria Bay, N. Y.  
Str. Hinckley.  
Str. Isabella, H.
- No. 131 Hogan, M. J., Pt. Colborne, Ont.  
Str. Lakeside.
- No. 132 Holmes & Co., W. E., Insurance Exchange Bldg., Chicago, Ill.  
Central Transportation Co.  
Str. Mueller.  
Bge. Fryer, R. L.
- No. 133 Homegardner & Hendrickson, Sandusky, Ohio.  
Str. Gill, A. M.
- No. 134 Horn, Edward H., Mgr., 371 Hurlbut Ave., Detroit, Mich.  
Str. Wolf, Wm. H.

- No. 135 Horne, G. G., Sarnia, Ont.  
Str. Hall, S. C.  
Bge. Brainard, Katie.
- No. 136 Hutchinson & Co., Mgrs., Leader-News Bldg., Cleveland, Ohio.  
Inland Steamship Co.  
Str. Block, Joseph.  
Str. Leopold, N. F.  
Pioneer Steamship Co.  
Str. Amazon.  
Str. Augustus, A. A.  
Str. Australia.  
Str. Billings, Frank.  
Str. Butler, Jr., J. G.  
Str. Hanna, D. R.  
Str. Hazard, F. R.  
Str. Hutchinson, J. T.  
Str. McKinney, Price.  
Str. Mullen, Martin.  
Str. Nye, H. B.  
Str. Paine, W. A.  
Str. Pierce, E. L.  
Str. Polynesia.  
Str. Stanton, John.  
Str. Sullivan, J. J.  
Str. Tomlinson, G. A.  
Str. Walsh, J. P.
- No. 137 Hydraulic Sand & Transit Co., Chicago, Ill.  
Str. Hydro.
- No. 138 Illinois State Militia, Chicago, Ill.  
Str. Commodore.
- No. 139 Imperial Oil Co., Ltd., Sarnia, Ont.  
Str. Imperial.

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

	Str. Imperoyal. Str. Iocoma. Str. Impoco. Str. Iocolite. Str. Royalite. Str. Sarnolite. Bge. No. 41.		Bge. Judd, E. T. Bge. Three Brothers.
No. 140	Inter American S. S. Co., Toronto, Ont. Str. Wethersfield.	No. 148	Joan Steamship Co., Alex Largell, Mgr., Rockefeller Bldg., Cleveland, Ohio. Str. Gladstone. Bge. Grover, M. B.
No. 141	Inter-Lake Auto Transportation Co., J. A. Page, Mgr., Toledo, Ohio. Str. Huron.	No. 149	Keegan & Cousins, Belleville, Ont. Bge. Newland, J. B.
No. 142	Interlake Sand & Gravel Co., Cleveland, Ohio. Str. Boyce, I. J.	No. 150	Keenan Brothers, Ltd., Owen Sound, Ont. Schr. Magill, C. J.
No. 143	International Transit Co., Sault Ste. Marie, Ont. Str. Algoma. Str. Bawating.	No. 151	Keenan, Wm., Fenwick, Ont. Bge. Scotia.
No. 144	Irondequoit Navigation Co., Irondequoit, N. Y. Str. Glenn.	No. 152	Kelly, Edward, Wallaceburg, Ont. Bge. Cyrenian.
No. 145	Isabell, Thomas, Sturgeon Bay, Wis. Schr. Nau, Libbie.	No. 153	Kelly Island Lime & Transportation Co., Leader-News Bldg., Cleveland, Ohio. Str. Chisholm, Jr., Alva. Str. Clinton. Str. Kelly Island. Str. Penobscot. Str. Recor, E. P. Bge. Cutler, D. G. Bge. Kelly, Norman. Bge. Pellatt, J. H.
No. 146	Jenkins, C. O., Mgr., Rockefeller Bldg., Cleveland, Ohio. Jenkins Steamship Co. Str. Jenkins, C. O. Str. Shaughnessy, Sir Thomas. Str. Squire, F. B.	No. 154	Keystone Transportation Co., of Canada, Ltd., Power Bldg., Montreal, Canada. Str. Key Port. Str. Keybell. Str. Keynor. Str. Keyvive. Str. Key West.
No. 147	Jex, H. N., 1749 Summit Ave., Toledo, Ohio. Str. Hazel. Bge. Bloom, Nelson. Bge. Clint, D. K.		



ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

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| <p>No. 155 King, A. B., Tonawanda, N. Y.<br/>Bge. King, A. B.</p>  | <p>No. 164 Lake Sand Co., R. F. Smith, Mgr., 19 LaSalle St., Chicago, Ill.<br/>Str. Dahlke, H.<br/>Str. Gunnell, E.<br/>Str. Hausler, M. G.</p>  |
| <p>No. 156 Kinney, A. T., Mgr., Rockefeller Bldg., Cleveland, Ohio.<br/>Kinney Steamship Co.<br/>Str. Ashley, J. S.<br/>Str. Kinney, A. T.<br/>Str. Ireland, R. L.<br/>Str. Upson, A. S.</p> | <p>No. 165 Lake Shore Sand &amp; Gravel Co., Toronto, Ont.<br/>Str. City of New York.</p>  |
| <p>No. 157 King Edward Starch Co., Ltd., Montreal, Canada.<br/>Str. Duchess of York.</p>   | <p>No. 166 Lake Shore Stone Co., Milwaukee, Wis.<br/>Str. Hennipin.</p>  |
| <p>No. 158 Kittleson, B., Racine, Wis.<br/>Schr. Taylor, J. V.</p>   | <p>No. 167 LeBeau Wrecking Co., Foot Magnolia St., Toledo, Ohio.<br/>Str. Sawyer, Philetus.<br/>Tug LeBeau, Clarence.<br/>Bge. Jones, C. B.</p>  |
| <p>No. 159 Kreeton Co., J. L. LaBelle, Mgr., Johnswood, Drummond Island, Mich.<br/>Str. Parks, O. E.<br/>Str. Wilson, Mathew.<br/>Bge. Knapp, F. M.<br/>Bge. Troy.</p>                       | <p>No. 168 Lehigh Valley Transportation Co., Buffalo, N. Y.<br/>Str. Mauch Chunk.<br/>Str. Wilkesbarre.</p>  |
| <p>No. 160 Kroos, Julius, Sheboygan, Wis.<br/>Str. Chipman, Susie.</p>   | <p>No. 169 Lloyd, Walter S., Duluth, Minn.<br/>Portage Lake Steamship Co.<br/>Str. Columbia.<br/>Str. Plow Boy.</p>  |
| <p>No. 161 Lake Erie Excursion Co., Buffalo, N. Y.<br/>Str. Americana.<br/>Str. Canadiana.</p>   | <p>No. 170 Lockhart, D. O., Sandusky, Ohio.<br/>Str. Wente, R. C.<br/>Str. Anna Laura.</p>   |
| <p>No. 162 Lake Erie &amp; Detroit River Ry. Co., Walkerville, Ont.<br/>Str. International.</p>  | <p>No. 171 Mackay, A. B., Hamilton, Ont.<br/>Str. Sarnor.</p>  |
| <p>No. 163 Lake Ontario &amp; Bay of Quinte Steamboat Co., Ltd., Kingston, Ont.<br/>Str. Caspian.<br/>Str. North King.</p>   | <p>No. 172 MacKinnon &amp; Scott, Menominee, Mich.<br/>Bge. Wisconsin.</p> <p>No. 173 Marquette &amp; Bessemer Dock &amp; Nav. Co., A. Leslie, Mgr., Walkerville, Ont.<br/>Str. Marquette &amp; Bessemer No. 1.<br/>Str. Marquette &amp; Bessemer No. 2.</p> |

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

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| <p>No. 174 McCauley, T., Escanaba, Mich.<br/>Str. Clarke, Alfred.</p>  | <p>No. 182 McMorran, Henry, Port Huron, Mich.<br/>Port Huron &amp; Sarnia Ferry Co.</p>  |
| <p>No. 175 McCullough, Wm., Port Huron, Mich.<br/>Bge. Coates, L. B.</p>   | <p>Str. Beard, James.<br/>Str. City of Cheboygan.<br/>Str. Conger, O. D.<br/>Str. Dormer, Grace.<br/>Str. Hiawatha.</p>  |
| <p>No. 176 McDougall, Neil, Marksville, Ont.<br/>Str. Michipicoten.</p>  | <p>No. 183 McQueen, J. L., Amherstburg, Ont.<br/>Str. City of Dresden.</p>   |
| <p>No. 177 McGibbon &amp; Sons, F., Sarnia, Ont.<br/>Bge. Cataract.</p>  | <p>No. 184 McSherry, P. J., Toronto, Ont.<br/>Str. Ongiara.</p>  |
| <p>No. 178 McGrory, Katie, Prescott, Ont.<br/>Bge. New Dominion.</p>   | <p>No. 185 Massey Steamship Co., Massey, C. A., Mgr., Superior, Wis.<br/>Str. Schlesinger, Ferd.<br/>Str. Tiogo.</p>   |
| <p>No. 179 McLean, Pierre, LaPrairie, Que.<br/>Str. St. Louis.</p>   | <p>No. 186 Mathews Steamship Co., Ltd., Board of Trade Bldg.,<br/>Toronto, Ont.</p>  |
| <p>No. 180 McLouth, Sidney C., Marine City, Mich.<br/>Huron Transportation Co.<br/>Str. Mitchell, Samuel.<br/>River Transit Co.<br/>Str. Hazard, W. A.<br/>Str. McLouth, Pierce.<br/>Str. Prentice, J. H.<br/>Str. Scranton.<br/>Str. Shores, Jr., E. A.<br/>Bge. Genoa.<br/>Bge. Mowatt, James.</p> | <p>Str. Easton.<br/><b>Str. Edmonton.</b><br/>Str. Laketon.<br/>Str. Malton.<br/>Str. Riverton.<br/>Str. Steelton.<br/>Str. Viking.<br/>Str. Yorkton.</p>  |
| <p>No. 181 McMillan, M. B., Dime Bank Bldg., Detroit, Mich.<br/>American Steamship Co.<br/>Str. Dimmick, J. K.<br/>National Steamship Co.<br/>Str. Bixby, W. K.</p>  | <p>No. 187 Merchants Transportation Co., Chicago, Ill.<br/>Str. Kansas.</p> <p>No. 188 Milnes Coal Co., Ltd., Toronto, Ont.<br/>Str. Warren, Homer.<br/>Bge. Uranus.</p> <p>No. 189 Milwaukee Railway &amp; Elec. Light Co., Milwaukee, Wis.<br/>Bge. Butman, Myron.<br/>Bge. Carpenter, A. A.</p> |

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

No. 190 Milwaukee Sand & Gravel Co., Milwaukee, Wis.  
Str. Ellen.

No. 191 Milwaukee Western Fuel Co., Milwaukee, Wis.  
Bge. Transfer.  
Bge. Transport.

No. 192 Misner, Scott, Sault Ste. Marie, Ont.  
Str. Overland.

No. 193 Minor, C. J., Sandusky, Ohio.  
Bge. Keith, Ida.

No. 194 Mitchell, John, Rockefeller Bldg., Cleveland, Ohio.  
Buffalo Steamship Co.  
Str. Agnew, W. C.  
Str. Clement, S. M.  
Str. Goodyear, Frank H.  
Str. Kennedy, Hugh.

No. 195 Montreal Transportation Co., Ltd., Montreal, Canada.  
Str. Advance.  
Str. Arabian.  
Str. Bronson, H. F.  
Str. Cataract.  
Str. Glenmount.  
Str. India.  
Str. Joyland.  
Str. Oatland.  
Str. Simla.  
Str. Westmount.  
Str. Westorian.  
Str. Windsor.  
Bge. Augustus.  
Bge. Brighton.  
Bge. Burma.  
Bge. Cobourg.  
Bge. Condor.

Bge. Coteau.  
Bge. Davie, G. T.  
Bge. Dakota.  
Bge. Dorchester.  
Bge. Dunmore.  
Bge. Ethel.  
Bge. Gaskin, John.  
Bge. Hamilton.  
Bge. Hilda.  
Bge. Kingston.  
Bge. Lapwing.  
Bge. McLaughlin, M. E.  
Bge. Mamie.  
Bge. Melrose.  
Bge. Montreal.  
Bge. Nadine.  
Bge. Quebec.  
Bge. Selkirk.  
Bge. Thrush.  
Bge. Thunder Bay.  
Bge. Ungava.  
Bge. Valencia.  
Bge. Winnipeg.

No. 196 Montreal Transportation Co., Ltd., Montreal, Canada.  
Oswego Navigation Co.  
Str. Avon.  
Str. Nicaragua.  
Bge. Bacon, M. S.  
Bge. Godfrey, J.

No. 197 Montreal & Cornwall Nav. Co., Ltd., Cornwall, Ont.  
Str. Brittanic.  
Str. Emerald.  
Str. Filgate.

No. 198 Morton Salt Co., R. K. Warren, Supt., Railway Exchange  
Bldg., Chicago, Ill.

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

- Str. Marion.  
Str. Oades, John.  
Bge. Aurora.
- No. 199 Mullen Coal Co., Amherstburg, Ont.  
Str. Alaska.  
Str. Houghton, H.  
Str. Otis, John.  
Bge. Tilden, S. J.
- No. 200 Murray, J. T., St. Ignace, Mich.  
Str. Lotus.
- No. 201 National Transit Co., Escanaba, Mich.  
Str. Buckley, Edw.  
Bge. Halstead.
- No. 202 Neff, Charles S., 1598 Lake Drive, Milwaukee, Wis.  
Str. Kalkaska.  
Str. Venezuela.  
Bge. Liberty.
- No. 203 Nessen Lumber Co., J. O., Peoples Gas Bldg., Chicago, Ill.  
Str. Horn, Charles.  
Str. Nessen, N. J.
- No. 204 Niagara Navigation Co., Ltd., Toronto, Ont.  
Str. Cayuga.  
Str. Chippewa.  
Str. Corona.  
Str. Macassa.  
Str. Modjeska.  
Str. Turbinia.
- No. 205 Niagara, St. Catherines & Toronto Nav. Co., Ltd., Toronto, Ontario.  
Str. Dalhousie City.  
Str. Garden City.
- No. 206 Nicholson Transit Co., Capt. Wm. Nicholson, Mgr., Campau Bldg., Detroit, Mich.  
Str. Fellowcraft.  
Str. Roumania.
- No. 207 Nipigon Transit Co., Pt. Huron, Mich.  
Str. Ford, J. C.
- No. 208 North American S. S. Co., F. I. Kennedy, Mgr., Rockefeller Bldg., Cleveland, Ohio.  
Str. Byers, A. M.  
Str. Reiss, John P.  
Str. Reiss, Peter.
- No. 209 North Shore Transit Co., Pt. Huron, Mich.  
Bge. Owen, Geo. B.
- No. 210 Northern Michigan Trans. Co., Chicago, Ill.  
Str. Illinois.  
Str. Missouri.
- No. 211 Northwestern Steamship Co., W. S. Jenks, Mgr., Pt. Huron, Mich.  
Str. Lakeland.  
Str. Lakeport.  
Str. Lakewood.
- No. 212 Norton & Co., Thomas, New York, N. Y.  
Str. Van Vleck, Geo. H.
- No. 213 O'Connor, James, Tonawanda, N. Y.  
Str. O'Connor, Frank.
- No. 214 O'Hagen, John J., 144 Grove St., Tonawanda, N. Y.  
Twin City Transportation Co.  
Str. Arizona.  
Str. Runnells, H. E.  
Str. King, George.  
Str. Toltec.

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

- No. 215 Oakes, Herbert K., Mgr., Rockefeller Bldg., Cleveland, Ohio.  
     Beaver Steamship Co.  
     Str. Oakes, Herbert K.  
     Str. Utley, E. H.  
     Franklin Steamship Co.  
     Str. Berry, B. F.  
     Str. Earling, E. J.  
     Str. Ford, Emory L.
- No. 216 Ogdensburg S. S. Co., Ogdensburg, N. Y.  
     Str. Columbia.
- No. 217 Oliver, James, Kingston, Ont.  
     Bge. Andrews, A. L.
- No. 218 Ontario Car Ferry Co., Ltd., Montreal, Can.  
     Str. Ontario No. 1.  
     Str. Ontario No. 2.
- No. 219 Ontario Gravel Freighting Co., Windsor, Ont.  
     Bge. Harsen.
- No. 220 Ontario Trading Co., Ogdensburg, N. Y.  
     Str. Pentland.
- No. 221 Ontario Transportation & Pulp Co., Ltd., Thorald, Ont.  
     Str. Boyce, M. H.  
     Str. Toiler.
- No. 222 Ottawa River Navigation Co., Montreal, Canada.  
     Str. Empress.
- No. 223 Ottawa Transportation Co., Ltd., Ottawa, Canada.  
     Str. Glen Allen.  
     Str. Hall.  
     Str. Scotchman.
- No. 224 Paisley S. S. Co., Cleveland-Cliffs Iron Co., Mgrs., Rockefeller Bldg., Cleveland, Ohio.  
     Str. Central West.  
     Str. Panay.  
     Str. Paisley, Robert R.  
     Str. Schneider, Cletus.  
     Str. Wesee.  
     Morrow Steamship Co.  
     Str. Luzon.  
     Bge. Hartnell, G. E.
- No. 225 Patterson, J. T., Kingston, Ont.  
     Schr. St. Louis.
- No. 226 Peacock, J. H., Port Hope, Ont.  
     Bge. Arthur.  
     Bge. Mowatt, Oliver.
- No. 227 Pelee Island Sand & Gravel Co., 1800 Scranton Road, Cleveland, Ohio.  
     Str. Stafford, W. R.
- No. 228 Peninsular Steamboat Co., Sandusky, Ohio.  
     Str. Olcott.
- No. 229 Peninsula Tug & Towing Co., Ltd., Wiarton, Ont.  
     Bge. Herschel.  
     Bge. Jackson, G. K.  
     Bge. Sands, I.  
     Tug Crawford.  
     Tug Ella.
- No. 230 Pennsylvania & Ontario Trans. Co., Rockefeller Bldg., Cleveland, Ohio.  
     Str. Ashtabula.
- No. 231 Pere Marquette Line Steamers, Gus Kitizinger, Mgr., Manistee, Mich.  
     Str. Pere Marquette No. 3.  
     Str. Pere Marquette No. 4.

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

- Str. Pere Marquette No. 6.  
Str. Pere Marquette No. 8.
- No. 232 Pere Marquette S. S. Co., W. L. Mercereau, Mgr., R. H.  
Reynolds, Supt., Ludington, Mich.  
Lake Michigan Car Ferry Association.  
Str. Ann Arbor No. 3.  
Str. Ann Arbor No. 4.  
Str. Ann Arbor No. 5.  
Str. Ann Arbor No. 6.  
Str. Grand Haven.  
Str. Milwaukee.  
Str. Pere Marquette.  
Str. Pere Marquette No. 14.  
Str. Pere Marquette No. 17.  
Str. Pere Marquette No. 18.  
Str. Pere Marquette No. 19.  
Str. Pere Marquette No. 20.
- No. 233 Peterson, Frank J., Cleveland, Ohio.  
Str. Mills, D. W.
- No. 234 Pickands-Mather & Co., Mgrs., Western Reserve Bldg.,  
Cleveland, Ohio.  
Interlake Steamship Co.  
Str. Adriatic.  
Str. Arcturus.  
Str. Argus.  
Str. Calumet.  
Str. Campbell, J. A.  
Str. Canopus.  
Str. Cepheus.  
Str. Cetus.  
Str. Clarke, E. A. S.  
Str. Corvus.  
Str. Crete.  
Str. Cygnus.
- Str. Dalton, H. G.  
Str. Davock, W. B.  
Str. Elba.  
Str. Hemlock.  
Str. Hoyt, J. H.  
Str. Hydrus.  
Str. Indus.  
Str. Jones, Harry R.  
Str. Jupiter.  
Str. Lagonda.  
Str. Lupus.  
Str. McCullogh, Jr., C. H.  
Str. Mars.  
Str. Mather, Samuel.  
Str. Mills, D. O.  
Str. Morse, J. C.  
Str. Neptune.  
Str. Odanah.  
Str. Pathfinder.  
Str. Pegasus.  
Str. Perseus.  
Str. Regulus.  
Str. Reed, J. H.  
Str. Robinson, C. S.  
Str. Saturn.  
Str. Sellwood, Joseph.  
Str. Sherwin, John.  
Str. Sirius.  
Str. Stone, Amasa.  
Str. Taurus.  
Str. Taylor, Moses.  
Str. Uranus.  
Str. Verona.  
Str. Vega.  
Str. Venus.  
Str. Victory.  
Str. Wallace, J. C.  
Str. Wolvin, A. B.

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

Bge. Constitution.  
 Bge. Sagamore.

No. 235 Pittsburgh Steamship Co., Rockefeller Bldg., Cleveland,  
 Ohio.

Str. Baker, G. F.  
 Str. Bessemer, Sir Henry.  
 Str. Black, C. A.  
 Str. Buffington, E. J.  
 Str. Bunsen, R. W. E.  
 Str. Clemson, D. M.  
 Str. Cole, T. F.  
 Str. Collins, E. C.  
 Str. Coralia.  
 Str. Corey, W. E.  
 Str. Cornell.  
 Str. Cort, Henry.  
 Str. Crawford, G. G.  
 Str. Crescent City.  
 Str. Dickson, W. B.  
 Str. Dinkey, A. C.  
 Str. Eads, J. B.  
 Str. Edenborn, Wm.  
 Str. Ellwood, I. L.  
 Str. Empire City.  
 Str. Ericsson, John.  
 Str. Fairbairn, Sir Wm.  
 Str. Farrell, J. A.  
 Str. Filbert, W. J.  
 Str. Frick, H. C.  
 Str. Fulton, Robt.  
 Str. Garey, E. H.  
 Str. Gates, J. W.  
 Str. Harvard.  
 Str. Harvey, A. F.  
 Str. Hill, J. J.  
 Str. Houghton, D.  
 Str. House, F. E.

Str. Kerr, D. G.  
 Str. Linn, W. R.  
 Str. Lynch, Thomas.  
 Str. McDougall, Alex.  
 Str. McGonagle, W. A.  
 Str. McLean, J. H.  
 Str. Malietoa.  
 Str. Maricopa.  
 Str. Mariposa.  
 Str. Maritana.  
 Str. Mataafa.  
 Str. Mather, Samuel.  
 Str. Maunaloa.  
 Str. Mitchell, Penticost.  
 Str. Morgan, J. P.  
 Str. Morgan, Jr., J. P.  
 Str. Morse, S. F. B.  
 Str. Murphy, S. J.  
 Str. Neilson, J. B.  
 Str. Niagara Frontier.  
 Str. Olcott, W. J.  
 Str. Palmer, W. P.  
 Str. Pargny, E. W.  
 Str. Perkins, G. W.  
 Str. Phipps, Henry.  
 Str. Poe, Gen. O. M.  
 Str. Princeton.  
 Str. Queen City.  
 Str. Ream, N. B.  
 Str. Rensselaer.  
 Str. Richardson, R. R.  
 Str. Roberts, Jr., P.  
 Str. Rockefeller, F.  
 Str. Rogers, H. H.  
 Str. Schiller, W. B.  
 Str. Shaw, H. L.  
 Str. Shiras, McG.  
 Str. Siemans, Sir Wm.

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

Str. Stephenson, Geo.	Str. Major.
Str. Superior City.	Str. America.
Str. Trimble, Richard.	Str. Brazil.
Str. Watt, James.	Str. Richardson, G. A.
Str. Wiedner, P. A. B.	
Str. Williams, Homer D	No. 237 Plunkett, Geo., Cobourg, Ont.
Str. Zeising, August.	Bge. Kitchen, J. B.
Str. Zenith City.	
Bge. Bell, Sir I. L.	No. 238 Point Ann Quarries, Ltd., McKinnon Bldg., Toronto, Ont.
Bge. Bryn Mawr.	Str. Lake Michigan.
Bge. Carrington.	Str. Rolph, John.
Bge. Corliss, G. H.	Bge. Dobbins, D. P.
Bge. Fritz, John.	Bge. Minch, Sophia.
Bge. Holley, Alex.	Bge. Moran, D.
Bge. Jenny, W. LeB.	Bge. Muir, A.
Bge. Krupp, Alfred.	Tug Gilbert.
Bge. Magna.	
Bge. Maia.	No. 239 Port Colborne Tug Co., Ltd., Port Colborne, Ont.
Bge. Maida.	Tug O'Brien, J. V.
Bge. Manda.	Tug Meteor.
Bge. Manila.	
Bge. Marcia.	No. 240 Potter-Teare Transit Co., Carter Road S. W., Cleveland,
Bge. Marsala.	Ohio.
Bge. Martha.	Str. McGregor, M. A.
Bge. Nasymith, James.	Bge. Gawn, Thomas.
Bge. Roebing, J. A.	
Bge. Smeaton, John.	No. 241 Pringle Barge Line Co., R. C. Pringle, Mgr., Rockefeller
Bge. Thomas, S. G.	Bldg., Cleveland, Ohio.
Bge. 137.	Tug Pringle, Robt. C.
No. 236 Playfair, James, Mgr., Midland, Ont.	Tug Pringle, W. R.
Great Lakes Trans. Co., Ltd.	Str. Normandie.
Str. Glenarchy.	Bge. Barlum, J. J.
Str. Glenfinnan.	Bge. Chattanooga.
Str. Glenshee.	Bge. Eddy, J. F.
Str. Glenyon.	Bge. Golden Age.
Str. Glenisla.	Bge. Iron Cliff.
Str. Glenlevit.	Bge. Mingo.



ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

No. 242 **Prindeville & Sons, John, Insurance Exchange Bldg.,**  
Chicago, Ill.  
Str. Foster, Parks.

No. 243 **Quebec & Port Levis Ferry Co., Ltd., Quebec, Que.**  
Str. Langdon, J. R.  
Str. Thom, J. S.

No. 244 **Reid Towing & Wrecking Co., Pt. Huron, Mich.**  
Str. Bielman, C. F.  
Str. Manistique.  
Str. Marshall, Maggie.  
Str. Pawnee.  
Str. Spokane.  
Bge. Buffalo.  
Bge. Edwards, J. R.  
Bge. Hanscombe, Belle.  
Bge. Kelderhouse, John.  
Bge. Orton, M. E.

No. 245 **Reiss Steamship Co., Sheboygan, Wis.**  
Str. Reiss, Clemens A.  
Str. Reiss, Otto M.  
Str. Reiss, Richard J.  
Str. Reiss, Wm. A.

No. 246 **Reynolds, J. E., 514 Ontario St., Port Huron, Mich.**  
Str. Huron City.

No. 247 **Richardson & Co., W. C., Mgrs., Leader-News Bldg., Cleve-**  
land, Ohio.  
**Bristol Transit Co.**  
Str. Colonel.  
Str. Senator.  
**Castile Transit Co.**  
Str. Goulder, Harvey D.  
**Fort Henry Transit Co.**  
Str. Richardson, W. C.

**Hanna Transit Co.**  
Str. Hanna, Jr., H. M.  
**Hubbard Steamship Co.**  
Str. Hubbard, C. Russell.  
**Mentor Transit Co.**  
Str. Centurion.  
Bge. Chicamauga.  
**Miller Transit Co.**  
Str. Miller, L. B.  
**Montreal Transit Co.**  
Str. Livingstone, Wm.  
**Norton Transit Co.**  
Str. Norton, D. Z.  
**Ottawa Transit Co.**  
Str. Stifel, W. F.  
**Owen Transit Co.**  
Str. Owen, John.  
**Yosemite Transit Co.**  
Str. Yosemite.

No. 248 **Richland Steamship Co., Rockefeller Bldg., Cleveland,**  
Ohio.  
Str. Richland Star.  
Str. Richland Queen.  
Bge. Richland Daisy.

No. 249 **Rideau Lakes Nav. Co., Ltd., Kingston, Ont.**  
Str. Rideau King.  
Str. Rideau Queen.

No. 250 **Rixon, Ainsle, Stoddard Co., Ltd., Owen Sound, Ont.**  
Bge. Buckout, B. B.

No. 251 **Robineau, A., 828 St. Hubert St., Montreal, Canada.**  
Str. Morley, W. B.

No. 252 **Roe Brothers, Harbor Springs, Mich.**  
Str. Columbia.

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

- |         |   |                                    |  |
|---------|---|------------------------------------|--|
| No. 253 | Roper Lumber & Cedar Co., Menominee, Mich.<br>Schr. Cook, Mary Ellen.                               | Bge. Dayton.<br>Bge. Wright, A. W. |  |
| No. 254 | Rutherford, Wm., Montreal, Canada.<br>Str. Ida E.   | No. 266                            | Shaw, Howard L., Mgr., Bay City, Mich.<br>Lake Transit Co<br>Str. City of Bangor.<br>Str. Penobscot.   |
| No. 255 | Saginaw Bay Trans. Co., Cleveland, Ohio.<br>Bge. Bottsford, Rhoda.                                  | No. 267                            | Shenango Steamship Co., Rockefeller Bldg., Cleveland,<br>Ohio.<br>Shenango Steamship Co.<br>Str. Snyder, W. P.<br>Str. Wilpen.<br>Shenango S. S. & Trans. Co.<br>Str. Shenango.<br>Str. Schoonmacher, Colonel J. M.<br>Str. Snyder, Jr., W. P. |
| No. 256 | Sands, Salt & Lumber Co., Louis, Manistee, Mich.<br>Str. Wotan.                                     | No. 268                            | Silver Islet Nav. Co., Ltd., Silver Islet, Ont.<br>Str. Forest City.   |
| No. 257 | Sanderson, Chas. J., Milwaukee, Wis.<br>Schr. Simpson, L. A.  | No. 269                            | Sincennes-McNaughton Line, Montreal, Canada.<br>Bge. Witbeck, Henry.   |
| No. 258 | Sanderson, M., Milwaukee, Wis.<br>Schr. Kewaunee.   | No. 270                            | Snook, John R., Mt. Clemens, Mich.<br>Str. Atlantis.   |
| No. 259 | Sanford, James, Charlevoix, Mich.<br>Str. Stephenson, S. M.   | No. 271                            | Salmon, Lawrence, Toronto, Ont.<br>Str. Clark Brothers.<br>Str. Hanlan, John.<br>Str. Mazeppa.   |
| No. 260 | Sandusky & Islands Steamboat Co., Sandusky, Ohio.<br>Str. Arrow.                                    | No. 272                            | Sowards, J. F., Kingston, Ont.<br>Str. Jex, H. N.  |
| No. 261 | Schlosser, Win, Milwaukee, Wis.<br>Schr. Stafford.  | No. 273                            | Spence Bros., Napanee, Ont.<br>Schr. Merrill, J. B.  |
| No. 262 | Schnorbach Greiling Co., Muskegon, Mich.<br>Str. Third Michigan.                                    |                                    |  |
| No. 263 | Scott, William, Wallaceburg, Ont.<br>Str. Brittain, R. C.   |                                    |  |
| No. 264 | Sellwood, R. M., Mgr., Sellwood Bldg., Duluth, Minn.<br>Masaba Steamship Co.<br>Str. Morrow, Joe S. |                                    |  |
| No. 265 | Sharp, W. H., Bay City, Mich.<br>Str. Donaldson, J. P.  |                                    |  |

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

No. 274 St. Joe Island & Sault Line, Ltd., Sault Ste. Marie, Ont. Str. City of Chatham.	Chicago Navigation Co.
No. 275 Standard Navigation Co., Buffalo, N. Y. Str. Veronica.	Str. Dunham, J. S. Str. Fitzgerald, W. E.
No. 276 Standard Oil Co., Chicago, Ill. Str. Cowan, Wm. P.	Christopher Steamship Co. Str. Christopher.
No. 277 St. Joseph & Chicago S. S. Co., St. Joseph, Mich. Str. Hart, E. C.	Gartland Steamship Co. Str. Wolfe, W. H.
No. 278 St. Lawrence Coal & Freighting Co., Odgensburg, N. Y. Str. Carter, W. J.	Milwaukee-Western S. S. Co. Str. Manchester.
No. 279 St. Lawrence Trans. Co., Toronto, Ont. Str. Pennsylvania.	No. 284 Superior Sand & Gravel Co., Detroit, Mich. Str. Osborne, F. C. Str. Powell, L. G.
No. 280 Steinbrenner, Henry, Mgr., Rockefeller Bldg., Cleveland, Ohio. Kinsman Transit Co. Str. Andrews, Mathew. Str. Minch, Anna C. Str. Minch, Phillip. Str. Steinbrenner, Henry.	No. 285 Surett, Walter S., 332 So. Michigan, Chicago, Ill. Str. Michigan Central.
No. 281 Stephenson, Isaac-Wells, Delta County, Mich. Str. Stephenson, I. W. Schr. Resumption.	No. 286 Swift & Co., James, Toronto, Ont. Str. Chamberlin, C. W. Bge. White & Friant.
No. 282 Sturgeon Bay Stone & Trans. Co., Sawyer, Wis. Str. Foster, I. N. Bge. Corning, Ida. Bge. Oak Leaf. Bge. Mott, Richard.	No. 287 Thompson, W. C., Port Arthur, Ont. Str. Shrigley, J. H.
No. 283 Sullivan & Co., D., Mgrs., Continental Commercial Bank Bldg., Chicago, Ill.	No. 288 Trotter, F. J., Amherstburg, Ont. Str. Mills, J. E. Tug Trotter, M. E.
	No. 289 Tomlinson, G. A., Mgr., Rockefeller Bldg., Cleveland, Ohio. Duluth Steamship Co. Str. Philbin, D. M. Str. Sonoma. Str. Sultana. Globe Steamship Co. Str. Adams, Cuyler. Str. Ball, F. C. Str. Ball Brothers. Inter-Ocean Steamship Co.

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

<p>Str. Davidson, J. E. Str. Sierra. National Steamship Co. Str. Hart, F. W. Str. Watson, C. W. Superior Steamship Co. Str. Barnum, G. G. Str. Sonora. Str. Sinaloa. Triton Steamship Co. Str. Ranney, R. P. Zenith Steamship Co. Str. Hoover &amp; Mason.</p>	<p>Str. Little, C. H. Str. McKerchey, J. M. Str. Mary. Str. Sachem. Bge. Whale.</p>
<p>No. 290 Toronto Ferry Co., Toronto, Ont. Str. Bluebell. Str. Island Queen. Str. Luella. Str. Mayflower. Str. Primrose. Str. Trillium.</p>	<p>No. 295 Van Dusen, T. L., Picton, Ont. Schr. Calkins, Bertie.</p>
<p>No. 291 Toronto, Hamilton &amp; Buffalo Nav. Co., Hamilton, Ont. Car Ferry Maitland No. 1.</p>	<p>No. 296 Victoria Nav. Co., Ltd., Ottawa, Que. Str. Victoria.</p>
<p>No. 292 Tracey, H. E. N., Marine City, Mich. Bge. Corry, Mike.</p>	<p>No. 297 Wabash R. R. Co., Toledo, Ohio. Str. Detroit. Str. Transfer. Str. Transport.</p>
<p>No. 293 Tribune Co., Chicago, Ill. Str. Lenden.</p>	<p>No. 298 Waffle, T. J. &amp; W. J., Kingston, Ont. Str. Waffle, T. J.</p>
<p>No. 294 United Fuel &amp; Supply Co., Detroit, Mich. Str. Brokate. Str. Cadwell, C. W. Str. Harvey, L. E. Str. Canisteo. Str. Heiden, Charles. Str. Homer.</p>	<p>No. 299 Walkerville &amp; Detroit Ferry Co., Walkerville, Ont. Str. Ariel. Str. Essex.</p>
	<p>No. 300 Weddell, R., Trenton, Ont. Str. Sicken, M.</p>
	<p>No. 301 Western Steamship Corp., New York, N. Y. Str. Oceanica.</p>
	<p>No. 302 Whalen, James, Port Arthur, Ont. Str. Niagara. Str. Van Allen, D. R.</p>
	<p>No. 303 Warner, Don E., Williamson Bldg., Cleveland, Ohio. Bge. Quale, Thomas.</p>
	<p>No. 304 White-Gratwick &amp; Mitchell S. S. Co., N. Tonawanda, N. Y. Str. Mitchell, G. A.</p>

ALPHABETICAL LIST OF OWNERS OR MANAGERS—Continued

	Bge. Crane, J. L. Bge. McAvoy, H. J.		
No. 305	White Star Line, Detroit, Mich. Str. City of Toledo. Str. Greyhound. Str. Owana. Str. Tashmoo. Str. Waketa.	No. 308	Wilson Lumber & Box Co., Tonawanda, N. Y. Str. Winnipeg.
No. 306	Willoughby, W. J. N., Windsor, Ont. Str. Fleetwood.	No. 309	Wilson-Patterson Co., Board of Trade, Montreal, Can. Str. Hall, H. B. Lehigh Coal Co., Ltd. Str. Canobie.
No. 307	Wilson Transit Co., Archie Thompson, Mgr., Rockefeller Bldg., Cleveland, Ohio. Str. Garretson, General. Str. Hebbard, Chas. Str. Kotcher, C. W. Str. McIntosh, H. P. Str. Osborne, A. W. Str. Rees, W. D. Str. Robbins, S. H. Str. Upson, J. E. Str. Wilson, Capt. Thomas.	No. 310	Windsor & Pelee Island Steamship Co., Ltd., Pelee Island, Ont. Str. Pelee.
		No. 311	Wisconsin Dredge & Dock Co., Sheboygan, Wis. Bge. Helvetia.
		No. 312	Wisconsin Steel Co., Chicago, Ill. Str. The Harvester.
		No. 313	Wyandotte Transportation Co., Wyandotte, Mich. Str. Alpena. Str. Conneaut. Str. Huron. Str. Wyandotte.

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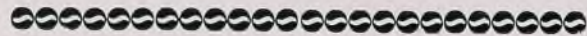
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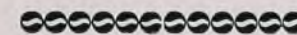
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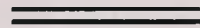
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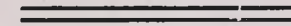
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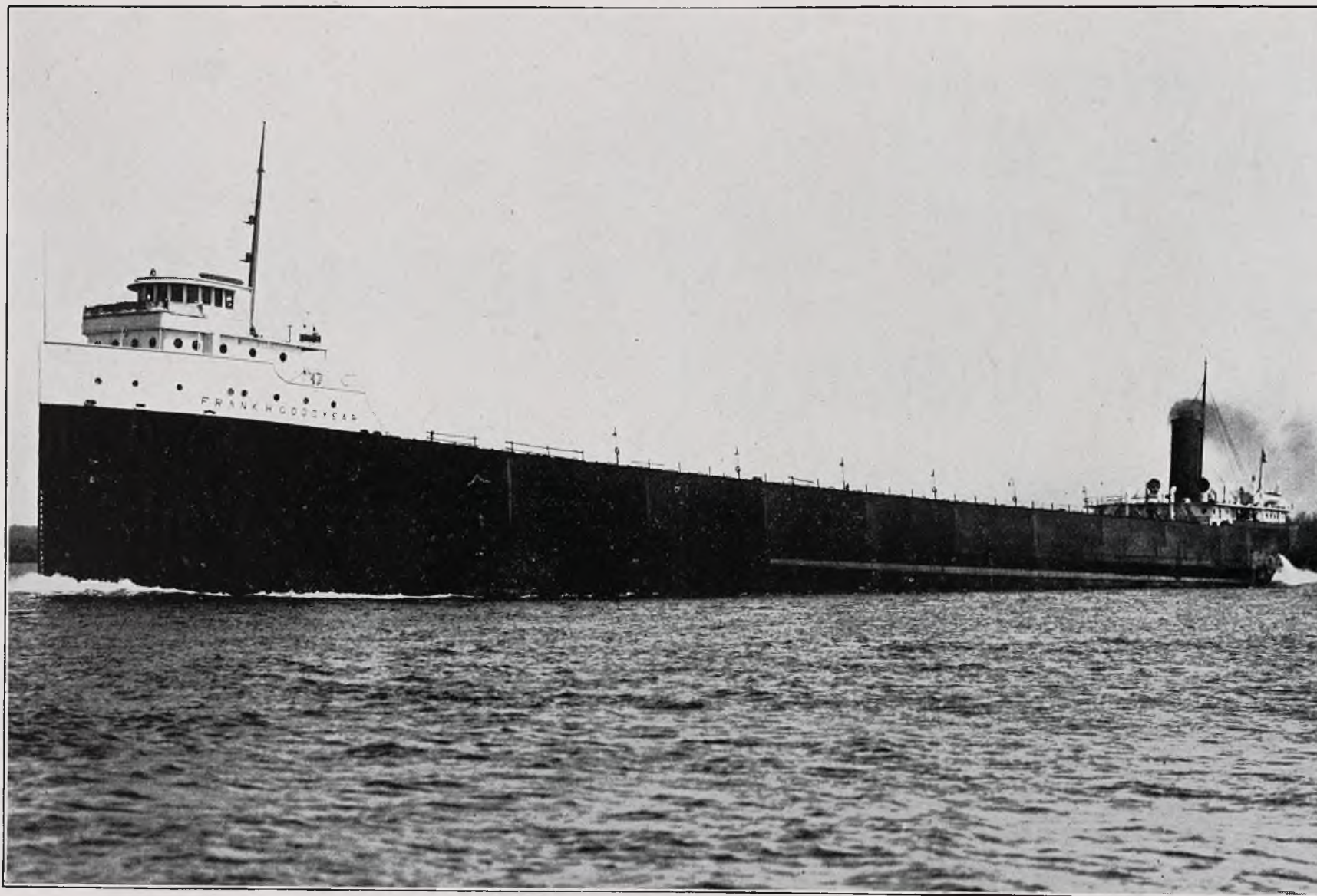


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GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"														
					Keel L, gth	Beam	Depth	No.	Size	Cent-ers					1	2	3	4	5	6									
STEAMERS																													
124	Aberdeen (Can.)	142	Wood.		99'6"	22'	8' 7"						1894																
290	Adams, Cuyler	5785	Steel.	8300	474'	52'	29'	28	9'		12'	3	Arch	Side	1904	<sup>12</sup> 3900	<sup>8</sup> 1800	<sup>8</sup> 2600											
225	Adriatic	4945	Steel.	7300	420'	52'	28'	23	9'		12'	4	Arch	Side	1907	<sup>5</sup> 2000	<sup>6</sup> 1500	<sup>6</sup> 1600	<sup>6</sup> 2100										
195	Advance (Can.)	1031	Wood.	1200	175'	35' 3"	15'	4	8'x20'				1		1884														
123	Agassiz, R. L.	6530	Steel.	10200	532'	56'	31'	32	9'		12'	3	Arch	Side	1907	<sup>10</sup> 3700	<sup>12</sup> 2800	<sup>10</sup> 3700											
2	Agawa (Can.)	3759	Steel.	5400	376'	46'	26'	10	9' 6"		24'	3			1902	<sup>4</sup> 2300	<sup>4</sup> 1700	<sup>2</sup> 1400											
194	Agnew, William C.	6533	Steel.	10300	532'	58'	31'	30	9'		12'	3	Arch	Side	1911	<sup>10</sup> 3700	<sup>10</sup> 2600	<sup>10</sup> 4000											
199	Alaska (Can.)	986	Iron..	1500	212'	32'	13' 5"	5	$\left\{ \begin{array}{l} 1\&5-8' \times 16'7'' \\ 2\&4-9'6'' \times 16'7'' \\ 3-11'4'' \times 16'7'' \end{array} \right.$						1871														
116	Allegheny	3898	Steel.	5000	350'	46'	30'								1910	<sup>2</sup>	<sup>3</sup>												
314	Alpena	2886	Steel.	3400	356'	47'	26'	18	8'x35'		12'	3		Side	1909	<sup>4</sup> 750	<sup>4</sup> 1250	<sup>3</sup> 1400											
136	Amazon	3702	Steel.	5700	376'	46'	26'	11	8'		24'	3			1897	<sup>4</sup> 2000	<sup>4</sup> 2000	<sup>3</sup> 1700											
123	Amberg, Wm. A.	7031	Steel.	10500	525'	58'	31'	32	9'		12'	3	Arch	Side	1917	<sup>10</sup> 3600	<sup>12</sup> 3200	<sup>10</sup> 3700											
237	America	2171	Steel.	3200	274'	41' 6"	24' 4"	7	8'		24'	3			1889	<sup>2</sup> 1000	<sup>2</sup> 800	<sup>3</sup> 1400											
63	Andaste	1573	Steel.	3000	266'	38'	22'	7	8'		25'	1			1892														

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
STEAMERS																				
281	Andrews, Matthew	7014	Steel.	10200	532'	56'	31'	33	9'	12'	3	Arch	Side	1907	10 3700	12 2800	10 3700			
63	Angeline	4690	Steel.	6800	414'	50'	28'	13	12'	24'	4	Arch		1899	4 2200	3 1400	3 1400	3 1800		
176	Annie Laura	244	Wood.	425	133'	24' 6"	10' 7"	3	1.3-7'3" x11' 2-8'7" x11'		1			1871						
195	Arabian (Can.)	1073	W.&S.	1200	178'6"	31'	13' 6"				1			1892						
235	Arcturus	7159	Steel.	9600	514'	54'	31'	16	12'	24'	4	Arch		1906	4 2600	4 2200	4 2200	4 2600		
10	Argo	721	Wood.	1200	192'	35'	12' 8"	5	8'x15'	24'	1			1895						
235	Argus	4444	Steel.	6800	408'	50'	28'	22	9'	12'	4	Arch		1898	1700	1600	1500	2000		
214	Arizona	765	Wood.	1100	189'4"	32' 6"	13' 4"	5	1.2,3,4-8'6" x12'6" 5-5'6" x12'6"		1			1868						
156	Ashley, J. S.	6361	Steel.	9500	504'	54'	30'	30	9'	12'	4	Arch	Side	1909	8 2700	7 1900	7 2200	8 2700		
71	Atikoken (Can.)	2004	Steel.	3100	308'	38'	24'	8	7' 6"	24'	2			1895	4 1750	4 1350				
271	Atlantis	197	Wood.	300	109'2"	23' 2"	8'							1887						
136	Augustus, A. A.	6390	Steel.	9500	504'	54'	30'	30	9'	12'	4	Arch	Side	1910	7 2700	8 2000	8 2000	7 2800		
136	Australia	3845	Steel.	5700	376'	48'	26'	11	8'	24'	3			1897	4 2000	4 2000	3 1700			
196	Avon	1417	Wood.	2000	251'1"	35' 4"	15' 1"	6	1.3,5-7'9" x16'2" 2.4,6-9'8" x16'2"					1877						
32	Aztec	834	Wood.	1100	180'	33' 3"	13'10"		9'x16'					1889						

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"											
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6						
BARGES																										
102	Acacia . . . . .	188	Wood.	300	102'	20'	9'							1873												
118	A—D (Can.) . . . . .	462	Wood.	700	147'	30' 1"	13' 4"							1899												
217	Andrews, Abbie L. (Can.) . . . . .	278	Wood.	500	136'	26'	12'							1873												
263	Antelope (Can.) . . . . .	334	Wood.	500	138'6"	26' 3"	11' 4"							1873												
20	Arthur . . . . .	937	Wood.	1800	217'	35' 3"	14' 8"	8	8'x19'		24'	1		1871												
226	Arthur (Can.) . . . . .	350	Wood	600	148'	26'	11' 3"							1893												
121	Ashland . . . . .	991	Wood.	1800	218'4"	37' 8"	15'							1886												
15	Atlasco (Can.) . . . . .	788	Wood.	1500	218'	32' 6"	14' 6"	8			24'	1		1881												
81	Auburn . . . . .	1379	Wood.		258'	35'	16' 3"							1878												
195	Augustus (Can.) . . . . .	802	Wood.	1500	177'5"	39' 6"	15'							1893												
198	Aurora . . . . .	2236	Wood.	3200	290'	41'	21' 6"				24'	1		1887												
STEAMERS																										
236	Baker, Geo. F. . . . .	7210	Steel.	11500	580'	58'	32'	36	9'		12'	3	Arch	Side	1907	12 4000	12 3400	12 4100								
290	Ball Brothers . . . . .	5733	Steel.	8700	480'	52'	30'	28	9'		12'	3	Arch	Side	1905	10 2900	9 2300	9 3500								
290	Ball, Frank C. . . . .	6909	Steel.	10000	530'	56'	31'	31	9'		12'	3	Arch	Side	1906	10 3500	11 3000	10 3500								
16	Barlum, John J. . . . .	6419	Steel.	9500	504'	54'	30'	30	9'		12'	4	Arch	Side	1909	7 2700	8 2000	8 2000		7 2800						

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"						
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6	
STEAMERS																					
16	Barlum, Thomas	5752	Steel.	8500	480'	52'	30'	23	9'	12'	3	Arch	Side	1908	<sup>10</sup> 3000	<sup>9</sup> 2500	<sup>9</sup> 3000				
290	Barnum, G. G.	6272	Steel.	9500	504'	54'	30'	30	9'	12'	3	Arch	Side	1905	<sup>10</sup> 3300	<sup>10</sup> 2500	<sup>10</sup> 3700				
70	Barth, L. L.	683	Wood.	900	185'	35'	13' 8"		7'x15'					1889							
114	Belgium	3860	Steel.	5700	370'	48'	28'	11	12'	24'	4	Arch		1902	<sup>3</sup> 1700	<sup>2</sup> 800	<sup>3</sup> 1500	<sup>3</sup> 1700			
215	Berry, B. F.	5188	Steel.	8500	480'	52'	30'	28	9'	12'	4	Arch		1908	<sup>7</sup> 2400	<sup>7</sup> 1800	<sup>7</sup> 1700	<sup>7</sup> 2600			
236	Bessemer, Sir Henry	4321	Steel.	6700	412'	48'	28'	12	8' 3"	24'	4			1896	<sup>3</sup> 1850	<sup>3</sup> 1500	<sup>3</sup> 1500	<sup>3</sup> 1850			
41	Bickerdike (Can.)	1515	Comp.	1250	222'	34'	25' 6"	6	{ 3-Side 6'6" x6'6" 3-Centre 7'x7'		3			1873	430	490	325				
245	Bielman, C. F.	2056	Wood.	3000	291'	41'	19' 8"	8	8'	24'	1			1892							
19	Bielman, C. F., Jr.	32	Steel.		67'6"	14'	7' 3"							1907							
136	Billings, Frank	5494	Steel.	9500	444'	56'	30'	25	9'	12'	3	Arch	Side	1910	<sup>8</sup> 2800	<sup>6</sup> 2500	<sup>8</sup> 3200				
181	Bixby, W. K.	5712	Steel.	8500	480'	52'	30'	14	12'	24'	3	Arch	Side	1906	<sup>4</sup> 2900	<sup>5</sup> 2600	<sup>5</sup> 3000				
236	Black, Clarence A.	4521	Steel.	6900	414'	50'	28'	13	8'	24'	4			1898	<sup>4</sup> 2000	<sup>3</sup> 1400	<sup>3</sup> 1500	<sup>3</sup> 1900			
123	Black, H. F.	6262	Steel.	9500	504'	54'	30'	16	12'	24'	4	Arch	Side	1916	<sup>4</sup> 2900	<sup>4</sup> 1850	<sup>4</sup> 1850	<sup>4</sup> 2900			
136	Block, Joseph	5486	Steel.	10800	549'	56'	31'	34	9'	12'	4	Arch	Side	1907	<sup>8</sup> 3100	<sup>8</sup> 2200	<sup>9</sup> 2200	<sup>9</sup> 3300			
23	Boland, John J.	4924	Steel.	8700	480'	54'	30'	14	12'	24'	3	Arch	Side	1907	<sup>4</sup> 2500	<sup>5</sup> 2800	<sup>5</sup> 3400				

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
STEAMERS																				
23	Booth, Edwin L. ....	4626	Steel.	7000	412'9"	51' 6"	28'	11	14'	24'	4	Arch		1901	<sup>3</sup> 1900	<sup>3</sup> 1600	<sup>3</sup> 1600	<sup>2</sup> 1900		
116	Boston . . . . .	4184	Steel.	5000	350'	48'	30'			24'	5			1913						
142	Boyce, I. J. ....	368	Wood.	550	138'	29' 6"	11'	3	9'x17'	24'	1			1889						
223	Boyce, Mary H. ....	700	Wood.	1200	181'4"	34' 2"	14'	4	8'x16'	24'	1			1888						
28	Bradley, Carl D. ....	7203	Steel.	10000	530'	60'	32'	30	9'	12'	3	Arch	Side	1917	<sup>8</sup> 3400	<sup>12</sup> 3600	<sup>10</sup> 4000			
20	Bradley, Chas. H. ....	804	Wood.	1000	201'	37'	13' 6"	4	12'x24'	24'	1			1890						
31	Bradley, M. A. ....	5539	Steel.	8200	460'	52'	30'	13	12'	24'	4	Arch	Side	1908	<sup>3</sup> 2000	<sup>3</sup> 1800	<sup>4</sup> 2400	<sup>3</sup> 2000		
237	Brazil . . . . .	2186	Steel.	3200	274'	40'	24' 4"	8	8'	24'	3			1890	<sup>2</sup> 1000	<sup>2</sup> 800	<sup>3</sup> 1400			
64	Breitung, Charlotte G.	3452	Steel.	5300	371'	45'	27'	11	12'	24'	4	Arch		1895	<sup>2</sup> 1200	<sup>3</sup> 1200	<sup>3</sup> 1200	<sup>3</sup> 1700		
197	Britannic (Can.) ....	428	W.& I.		150'8"	25' 6"	9' 2"							1866						
264	Brittain, R. C. (Can.) .	200	Wood.	300	142'	24'	8'							1877						
195	Bronson, H. F. (Can.) .	137	Wood.		91'	18'	7' 1"							1870						
17	Brower, A. G. ....	3582	Steel.	5400	346'	48'	28'	10	8'	24'	4			1902	<sup>3</sup> 1700	<sup>2</sup> 1000	<sup>2</sup> 1000	<sup>3</sup> 1700		
31	Brown, Fayette ....	6377	Steel.	9500	504'	54'	30'	30	9'	12'	4	Arch	Side	1910	<sup>7</sup> 2700	<sup>8</sup> 2000	<sup>8</sup> 2000	<sup>7</sup> 2800		

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"						
					Keel L'gth	Beam	Depth	No.	Size	Cent-ers					1	2	3	4	5	6	
STEAMERS																					
31	Brown, Harvey H. ....	6634	Steel.	10500	532'	58'	31'	31	9'	12'	3	Arch	Side	1908	9 3700	11 3000	10 3800				
30	Brown, J. J. H. ....	5069	Steel.	7400	432'	52'	28'	24	9'	12'	4	Arch		1908	6 1900	6 1800	6 1800	6 1900			
123	Brown, Wm. L. ....	4904	Steel.	7300	430'	50'	28' 6"	24	9'	12'	3	Arch		1901	9 2700	8 2300	7 2300				
17	Brown, W. W. ....	3582	Steel.	5400	346'	48'	28'	10	8'	24'	4			1902	3 1700	2 1000	2 1000	3 1700			
201	Buckley, Edward ....	414	Wood.	450	154'3"	31' 7"	10' 6"							1891							
121	Buel, F. R. ....	951	Wood.	1500	194'	35' 6"	13' 9"	5	1-5'3" x 8'9" Bal.-8'9" x 15'	24'				1888							
116	Buffalo . . . . .	3951	Steel.		381'	50'	29'							1899							
236	Buffington, Eugene J. .	7528	Steel.	11500	580'	58'	32'	36	9'	12'	3	Arch	Side	1909	12 4000	12 3400	12 4100				
136	Bunsen, R. W. E. ....	5187	Steel.	7400	446'	50'	29' 6"	14	8'	24'	4	Arch		1900	4 2000	4 2000	4 2000	2 1400			
1	Burnham, Geo. ....	332	Wood.	600	149'	29'	10' 1"	3	9'x9'					1872							
136	Butler, Joseph G., Jr. .	6588	Steel.	10000	525'	55'	31'	32	9'	12'	3	Arch	Side	1905	10 3500	12 3000	10 3500				
208	Byers, A. M. ....	6364	Steel.	9500	504'	54'	30'	30	9'	12'	4	Arch	Side	1910	7 2700	8 2000	8 2000	7 2800			
BARGES																					
196	Bacon, M. S. ....	614	Wood.	1200	182'	33' 6"	13' 6"	6	12'	24'	1			1874							
242	Barlum, J. J. ....	1184	Wood.	2100	234'	40' 8"	16'	13	8'x35'	12'				1890							

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES				Construction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Centers	Comp'ts				1	2	3	4	5	6
BARGES																				
236	Bell, Sir Isaac L. ....	3418	Steel.	5700	366'	44'	26'	11	8'		24'	3		1896	<sup>3</sup> 1700	<sup>4</sup> 1900	<sup>4</sup> 2100			
147	Bloom, Nelson .....	549	Wood.	950	197'7"	31' 2"	11' 3"	6	6-4'x6' Bal.-8'x13'			1		1863						
256	Bottsford, Rhoda .....	499	Wood.	850	167'1"	32' 9"	10' 3"	5	1,2,3,4-8'8" x10'9" 5-4'x10'9"			1		1881						
135	Brainard, K. (Can.) ...	398	Wood.	800	169'8"	30'	10'							1871						
195	Brighton (Can.) .....	634	Wood.	1000	179'6"	34' 7"	11' 4"							1897						
20	Brightie . .....	600	Wood.	1000	182'	33' 2"	13'	5	10'x22'			1		1868						
41	Brookdale (Can.) .....	1067	Wood.	2100	213'3"	39' 8"	16' 8"							1888						
55	Brown, Belle .....	217	Wood.	375	124'6"	27' 4"	9' 3"							1873						
236	Bryn Mawr .....	4294	Steel.	7500	400'	50'	27'	13	8'		24'	3		1900	<sup>4</sup> 2500	<sup>4</sup> 2000	<sup>5</sup> 3000			
74	Buckeye State .....	518	Wood.	900	171'	32' 7"	11' 5"							1873						
251	Buckhout, B. B. ....	351	Wood.	600	158'2"	28' 8"	10'	4	8'x7'		25'	1		1873						
245	Buffalo . .....	738	Wood.	1300	215'8"	35' 6"	13' 1"	7	8'x12'		24'	1		1871						
189	Butman, Myron .....	424	Wood.	800	164'3"	31' 2"	10' 2"							1885						

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.





GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
STEAMERS																				
279	Carter, W. J. ....	235	Wood.	450	122'	28'	9' 6"						1886							
195	Cataract (Can.) .....	839	Wood.	900	175'	23' 6"	14' 6"			18'	1		1882							
64	Central West .....	3400	Steel.	5200	352'	45'	26'	10	8'		3	Arch	1895	1600	1900	1700				
248	Centurion . . . . .	3401	Steel.	5000	360'	44' 6"	26' 6"	10	8'	24'	3		1893	1600	1900	1500				
235	Cepheus . . . . .	4551	Steel.	6900	416'	50'	28'	12	8'	24'	4		1903	1750	1600	1600	3	1950		
235	Cetus . . . . .	4720	Steel.	6900	416'	50'	28'	12	8'	24'	4		1903	1750	1600	1600	3	1950		
286	Chamberlin, C. W. (Can.) . . . . .	385	Wood	350	127'	26' 6"	9' 7"						1881							
116	Chicago . . . . .	3195	Steel.		325'	44'	28'						1901							
160	Chipman, Susie .....	216	Wood.	300	122'	26'	9' 5"						1885							
153	Chisholm, Jr., Alva S. . . . .	478	Wood.	600	150'	35'	8'						1900							

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"														
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6									
STEAMERS																													
127	Christie, T. S. ....	517	Wood	800	160'	30' 3"	12'	4	8' 12'	24'	1			1885															
284	Christopher . . . . .	4260	Steel.	6400	410'	48'	28'	12	8'	24'	4			1901	3 1800	3 1500	3 1500	3 1800											
267	City of Bangor . . . . .	4202	Steel.	6600	445'	44' 6"	27' 8"	13	8'	24'	4			1896	3 1600	4 2000	4 1500	3 1500											
165	City of New York (Can.) . . . . .	292	Wood.	500	136'	27' 6"	11' 6"							1863															
235	Clarke, E. A. S. ....	5750	Steel.	10200	532'	56'	30'	2	9'	12'	3	Arch	Side	1907	10 3700	12 2800	10 3700												
194	Clement, S. M. ....	5821	Steel.	8500	480'	52'	30'	28	9'	12'	3	Arch	Side	1905	10 2900	9 2600	9 3000												
236	Clemson, D. M. ....		Steel.	12000	580'	60'	32'	35	9'	12'		Arch	Side	1916	12 4500	12 3300	11 4200												
153	Clinton . . . . .	124	Wood.	300	96'	25'	6' 7"							1898															
85	Colborn, A. R. ....	251	Wood.	400	129'9"	28'	9' 6"	2	8'x8'	24'	1			1882															
236	Cole, Thomas F. ....	7268	Steel.	11500	585'	58'	32	35	9' 6"	12'	3	Arch	Side	1907	11 4000	12 3400	12 4100												

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
STEAMERS																				
44	Colin, W. (Can.) . . . . .	1549	Wood.	1500	256'	36' 6"	19' 3"						1881							
236	Collins, E. C. . . . .	4787	Steel.	6800	416'	50'	28'	12	8'		24'	4	Arch	Side	1904	<sup>3</sup> 1900	<sup>3</sup> 1600	<sup>3</sup> 1500	<sup>3</sup> 2000	
41	Collinwood (Can.) . . . . .	4314	Steel.	6300	386'	50'	28'	11	9'		24'	4	Arch		1908	<sup>2</sup> 1300	<sup>3</sup> 1500	<sup>3</sup> 1600	<sup>3</sup> 1900	
248	Colonel . . . . .	3879	Steel.	5700	356'	50'	28'	10	12'		24'	3	Arch		1901	<sup>3</sup> 1850	<sup>4</sup> 2000	<sup>3</sup> 1850		
216	Columbia . . . . .	1373	Wood.	2100	235' 4"	38' 6"	19' 10"	6	8'		24'	1			1881					
138	Commodore . . . . .	2082	Wood.		265'	42'	24' 6"								1875					
118	Compton (Can.) . . . . .	1530	Wood.	2100	235'	36'	25'	6	7'		24'	1			1882					
116	Conemaugh . . . . .	3898	Steel.	5000	350'	46'	30'								1909					
73	Conestoga . . . . .	1726	Wood.		252'	36'	26' 3"								1878					
314	Conneaut . . . . .	4749	Steel.	6000	416'	56'	30'	21	9'		12'	3	Arch	Side	1916	<sup>4</sup> 1000	<sup>5</sup> 2000	<sup>5</sup> 3000		
116	Cooke, Delos W. . . . .	3398	Steel.	4300	325'	44'	28'								1897					
236	Coralia . . . . .	4330	Steel.	6000	412'	48'	28'	12	8'		24'	4			1896	<sup>3</sup> 1700	<sup>3</sup> 1300	<sup>3</sup> 1300	<sup>3</sup> 1700	
236	Corey, Wm. E. . . . .	6363	Steel.	10500	549'	56'	31'	33	9'		12'	2	Arch	Side	1905	<sup>16</sup> 5000	<sup>17</sup> 5500			
23	Cornelius, Adam E. . . . .	4900	Steel.	7300	420'	52'	28'	12	12'		24'	3	Arch		1908	<sup>3</sup> 2100	<sup>5</sup> 2500	<sup>4</sup> 2700		

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"														
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6									
<b>STEAMERS</b>																													
236	Cornell . . . . .	5082	Steel.	7500	454'	50'	28' 6"	14	8'	24'	6			1900	<sup>3</sup> 1800	<sup>2</sup> 1000	<sup>2</sup> 1000	<sup>2</sup> 900	<sup>2</sup> 1000	<sup>3</sup> 1800									
236	Cort, Henry . . . . .	2234	Steel.	3500	320'	42'	25'	8	7' 10"	24'	1	Arch		1892															
86	Corunna (Can.) . . . . .	1256	Steel.	2000	230'	34'	21'				4			1891	510	216	230	290											
235	Corvus . . . . .	4551	Steel.	6900	416'	50'	28'	12	8'	24'	4			1903	<sup>3</sup> 1750	<sup>3</sup> 1600	<sup>3</sup> 1600	<sup>3</sup> 1950											
114	Coulby, Harry . . . . .	6495	Steel.	10500	549'	56'	31'	34	9'	12'	3	Arch	Side	1906	<sup>10</sup> 3600	<sup>12</sup> 2900	<sup>12</sup> 4000												
277	Cowan, Wm. P. . . . .	5429	Steel.	Oil	420'	55'	28'							1918															
114	Cowle, John B. . . . .	6614	Steel.	10000	525'	58'	31'	31	9'	12'	3	Arch	Side	1910	<sup>10</sup> 3400	<sup>11</sup> 3000	<sup>10</sup> 3600												
236	Crawford, Geo. G. . . . .	7971	Steel.	12000	585'	60'	32'	36	9'	12'	4	Arch	Side	1907	<sup>9</sup> 3500	<sup>9</sup> 2500	<sup>9</sup> 2500	<sup>9</sup> 3500											
123	Crawford, W. D. . . . .	6385	Steel.	9500	504'	54'	30'	16	12'	24'	4	Arch	Side	1914	<sup>4</sup> 2900	<sup>4</sup> 1850	<sup>4</sup> 1850	<sup>4</sup> 2900											
236	Crescent City . . . . .	4213	Steel.	5800	406'	48'	28'	12	8' 8"	24'	4			1897	<sup>2</sup> 1600	<sup>2</sup> 1300	<sup>2</sup> 1300	1600											
235	Crete . . . . .	6189	Steel.	8500	480'	52'	30'	28	9'	12'	4	Arch		1907	<sup>7</sup> 2400	<sup>7</sup> 1800	<sup>7</sup> 1700	<sup>7</sup> 2600											
17	Curry, S. S. . . . .	3931	Steel.	6500	432'	45'	26'	13	8'	24'	4			1893	<sup>2</sup> 1200	<sup>4</sup> 1800	<sup>4</sup> 1600	<sup>3</sup> 1900											
31	Croft, Harry W. . . . .	6223	Steel.	10000	504'	58'	30'	15	12'	24'	3	Arch	Side	1908	<sup>5</sup> 3700	<sup>5</sup> 2900	<sup>5</sup> 3400												
235	Cygnus . . . . .	4725	Steel.	6900	416'	50'	28'	12	8'	24'	4			1903	<sup>3</sup> 1750	<sup>3</sup> 1600	<sup>3</sup> 1600	<sup>3</sup> 1950											

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Com'nts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"													
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6								
BARGES																												
296	Calkins, Bertie (Can.)	227	Wood.	450	134'	28'	9'							1874														
43	Calvert, W. S. (Can.)	543	Wood.		191'	29'	14' 4"							1874														
15	Carney, Fred	361	Wood.	700	152'2"	30' 4"	10' 6"							1883														
7	Carrier	187	Wood.	375	123'	26'	8' 6"							1865														
189	Carpenter, A. A.	540	Wood.	1000	165'6"	33'	12' 2"							1881														
236	Carrington	3180	Steel.	5500	352'	44'	26'	11	8'		24'	3		1897	<sup>3</sup> 1800	<sup>4</sup> 1600	<sup>4</sup> 2100											
121	Case, J. I.	827	Wood.	1400	208'	34' 6"	14' 6"	6	6' 6"x16'					1874														
111	Casey, Lyman (Can.)	277	Wood	550	136'	26'	13'							1867														
177	Cataract (Can.)	240	Wood.	300	105'	24'	10' 5"							1874														
242	Chattanooga	2339	Wood.	4000	308'	45'	21' 6"	10	7'		24'	3		1898	<sup>3</sup> 1300	<sup>3</sup> 1200	<sup>4</sup> 1500											
248	Chickamauga	2472	Wood.	4300	322'	45'	21' 6"	11	7'		24'	3		1898	<sup>3</sup> 1300	<sup>5</sup> 1700	<sup>3</sup> 1300											
77	Chieftain	2704	Wood.	4900	342'	46'	21' 6"	11	8'		24'	1		1902														
175	Coates, L. B.	189	Wood.	350	116'1"	25' 6"	8' 1"							1874														
147	Clint, D. K.	729	Wood.	1200	168'6"	32'	18' 8"		12'x20'					1872														
235	Constitution	3847	Steel.	6500	438'	44'	26'	14	8'		24'	4		1897	<sup>3</sup> 1700	<sup>4</sup> 1400	<sup>4</sup> 1550	<sup>3</sup> 1700										
254	Cook, Mary Ellen	152	Wood.	300	118'	25' 6"	8'							1875														
236	Corliss, Geo. H.	3259	Steel.	5500	352'	44'	26'	11	8'		24'	3		1896	<sup>3</sup> 1800	<sup>4</sup> 1600	<sup>4</sup> 2100											

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"																									
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6																				
<b>BARGES</b>																																								
283	Corning, Ida	444	Wood.	800	168'	31' 3"	10' 9"							1881																										
293	Corry, Mike	380	Wood.	650	153'6"	29' 3"	10' 8"							1874																										
305	Crane, J. L.	548	Wood.	1000	186'8"	31' 9"	11'	5	9'x17'	24'	1			1881																										
52	Crete	2083	Wood.	3400	288'6"	44' 6"	19' 1"	8		24'	1			1897																										
153	Cutler, Dwight G.	468	Wood.	1100	165'	36'	12'							1906																										
152	Cyrenian (Can.)	376	Wood.	700	135'	26'	10' 6"							1879																										
<b>STEAMERS</b>																																								
164	Dahlke, H.	442	Steel.	Sand	152'	34' 6"	10' 6"							1908																										
235	Dalton, H. G.	7810	Steel.	12000	580'	60'	32'	32	9'	12'	3	Arch	Side	1916	<sup>10</sup> 4500	<sup>12</sup> 3300	<sup>11</sup> 4200																							
290	Davidson, James E.	6206	Steel.	9500	504'	54'	30'	30	9'	12'	3	Arch	Side	1905	<sup>10</sup> 3300	<sup>10</sup> 2500	<sup>10</sup> 3700																							
26	Davidson, Louis R.	6356	Steel.	9700	504'	56'	30'	30	9'	12'	4	Arch	Side	1912	<sup>7</sup> 2700	<sup>8</sup> 2200	<sup>7</sup> 2000	<sup>8</sup> 2800																						
73	Davidson, Thomas	2483	Wood.	3000	286'	42'	23' 5"	8	8'	24'				1888																										
235	Davock, Wm. B.	4468	Steel.	7200	420'	52'	28'	12	12'	24'	4	Arch		1907	<sup>3</sup> 2100	<sup>3</sup> 1500	<sup>3</sup> 1500	<sup>3</sup> 2100																						
6	Dawson, Sir Trevor	7215	Steel.	11500	580'	58'	32'	36	9'	12'	3	Arch	Side	1911	<sup>12</sup> 4000	<sup>12</sup> 3400	<sup>12</sup> 4100																							
116	Delaware	3901	Steel.		350'	46'	30'							1905																										
114	Denmark	5448	Steel.	8400	440'	56'	28'	24	9'	12'	4	Arch		1909	<sup>6</sup> 2600	<sup>6</sup> 1600	<sup>6</sup> 1600	<sup>6</sup> 2600																						
118	Derbyshire, Senator (Can.)	1246	Wood.	2200	220'	40'	18'	6	7'	24'	1			1897																										

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compn'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"															
					Keel L'gth	Beam	Depth	No.	Size	Cent-ers					1	2	3	4	5	6										
STEAMERS																														
236	Dickson, Wm. B. ....	7568	Steel.	11500	580'	58'	32'	36	9'	12'	3	Arch	Side	1910	4000	3400	4100													
181	Dimmick, J. K. ....	4651	Steel.	6800	423'	51'	28'	13	8'	24'	4			1900	2100	1500	1500	1700												
236	Dinkey, Alva C. ....	7514	Steel.	11500	580'	58'	32'	36	9'	12'	3	Arch	Side	1909	4000	3400	4100													
17	Donaldson, John A. ...	4315	Steel.	6300	380'	50'	28'	20	9'	12'	3	Arch		1908	2200	1800	2200													
266	Donaldson, J. P. ....	521	Wood.	700	185'	30' 4"	12'	4	7' 8"x9'		1			1880																
123	Donner, W. H. ....	6311	Steel.	9500	504'	54'	30'	16	12'	24'	4	Arch	Side	1914	2900	1850	1850	2900												
41	Doric (Can.) ....	2359	Steel.	2800	247'	43'	25' 5"	6	Upper Decks, 8'x28' Main Decks, 8'x16'	24'	2			1903	1000	946	D'k	1135												
105	Douglas . . . . .	230	Wood.	225	120'3"	22'10"	8' 6"								1882															
89	Doville, R. E. ....	199	Steel.		116'	28'	7'							1905																
116	Duluth . . . . .	4623	Steel.		381'	50'	30'							1903																
284	Dunham, James S. ....	4795	Steel.	7300	420'	52'	28'	23	9'	12'	4	Arch		1906	1700	1700	1800	2100												
114	Dunn, John, Jr. ....	6160	Steel.	10000	504'	58'	30'	15	12'	24'	3	Arch	Side	1907	3700	2600	3700													
114	Durston, J. F. ....	4791	Steel.	7800	432'	52'	28'	23	9'	12'	3	Arch		1908	3000	1800	3000													

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compt's	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"						
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6	
<b>BARGES</b>																					
109	Davis, Lyman M. (Can.) . . . . .	198	Wood.	350	123'	27' 2"	9' 4"						1873								
106	Day, Eliza . . . . .	139	Wood.	250	97'6"	25' 6"	8' 4"						1869								
266	Dayton . . . . .	462	Wood.	650	184'2"	30'	9' 8"	4	7' 9"x11' 4"		1		1871								
20	Delaware . . . . .	524	Wood.	1000	173'6"	30' 4"	13'	5	10'x22'	24'	1		1868								
121	Delta . . . . .	269	Wood.	500	134'	28' 9"	10' 3"	3	8'x12'				1890								
239	Dobbins, D. P. (Can.)	447	Wood.	900	162'3"	31' 6"	12' 2"						1863								
195	Dunmore (Can.) . . . . .	675	Wood.	1100	182'5"	34' 9"	11' 9"						1895								
<b>STEAMERS</b>																					
236	Eads, James B. . . . .	3746	Steel.	5000	400'	42'10"	28'	12	8' 7"	24'	3		1894	3 1400	4 1300	5 2300					
215	Earling, E. J. . . . .	6657	Steel.	10000	525'	55'	31'	32	9'	12'	3	Arch	Side	1906	10 3500	11 3200	11 3300				
186	Easton (Can.) . . . . .	1757	Steel.	2800	250'	42' 6"	18' 6"	6	12'x26'	24'	3			1912	2 1000	2 800	2 1000				
236	Edenborn, Wm. . . . .	5910	Steel.	8300	478'	52'	30'	15	8'	24'	6			1900	3 1800	2 1100	2 1100	2 1200	3 1300	3 1800	
186	Edmonton (Can.) . . . . .	1982	Steel.	3000	249'	42' 8"	23'	6			3			1906	2 1100	2 800	2 1100				
235	Elba . . . . .	4963	Steel.	7300	420'	52'	28'	23	9'	12'	4	Arch	Side	1907	5 2000	6 1500	6 1600	6 2100			
123	Elphicke, Mary C. . . . .	4904	Steel.	7300	430'	50'	28' 6"	24	9'	12'	3	Arch		1901	9 2700	8 2300	7 2300				
190	Ellen . . . . .	349	Wood.	Sand	120'	30' 6"	8'						1893								



GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"													
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6								
STEAMERS																												
236	Ellwood, Isaac L. ....	5904	Steel.	8300	478'	52'	30'	15	8'		24'	6			1900	<sup>3</sup> 1800	<sup>2</sup> 1100	<sup>2</sup> 1100	<sup>2</sup> 1200	<sup>3</sup> 1300	<sup>3</sup> 1800							
41	Emperor (Can.) .....	7031	Steel.	10000	525'	56'	31'	30	9'		12'	5	Arch	Side	1911	<sup>6</sup> 2000	<sup>6</sup> 2000	<sup>6</sup> 2000	<sup>6</sup> 2000	<sup>6</sup> 2000								
236	Empire City .....	4118	Steel.	6300	405'	48'	28'	12	8'		24'	4			1897	<sup>3</sup> 1700	<sup>3</sup> 1400	<sup>3</sup> 1400	<sup>3</sup> 1700									
17	England, R. W. ....	3887	Steel.	5700	356'	50'	28'	18	9'		12'	4			1904	<sup>3</sup> 1000	<sup>6</sup> 2000	<sup>6</sup> 1700	<sup>3</sup> 1000									
236	Ericsson, John .....	3200	Steel.	5800	390'	48'	27'	11	8'		24'	4	Arch		1896	<sup>3</sup> 1600	<sup>3</sup> 1300	<sup>3</sup> 1300	<sup>2</sup> 1600									
BARGES																												
242	Eddy, John F. ....	1678	Wood.	2600	259'	37' 6"	21' 6"								1886													
245	Edwards, J. R. ....	435	Wood.	800	175'2"	30' 6"	12' 2"	5	8'x16'		24'	1			1883													
118	Ewen, Frank D. (Can.) . . . . .	882	Wood.	1750	202'	37'	16'								1888													
STEAMERS																												
41	Fairfax (Can.) .....	1424	Wood.	2100	209'	38'	19'								1890													
236	Fairbairn, Sir Wm. ...	4219	Steel.	6000	414'	45' 6"	28'	12	7' 8"		24'	4			1896	<sup>3</sup> 1700	<sup>3</sup> 1300	<sup>3</sup> 1300	<sup>3</sup> 1700									
115	Favorite (Wrecker) ...		Steel.		173'	40'	16'								1919													

**GENERAL DIMENSIONS AND STATISTICS—Continued**

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compn'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"												
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6							
<b>STEAMERS</b>																											
236	Farrel, James A. ....	7705	Steel.	11500	580'	58'	32'	34	9'	12'	3	Arch	Side	1912	<sup>12</sup> 4300	<sup>12</sup> 3200	<sup>10</sup> 4000										
206	Fellowcraft . . . . .	2070	Wood.	2800	256'	40'	21' 6"	6	9'	24'				1888													
236	Filbert, Wm. J. ....	7962	Steel.	12000	585'	60'	32'	36	9'	12'	4	Arch	Side	1907	<sup>9</sup> 3500	<sup>9</sup> 2500	<sup>9</sup> 2500	<sup>9</sup> 3500									
92	Fitzgerald, R. P. ....	1681	Wood.	2300	256'	38'	20'	7	8'	24'	1			1887													
284	Fitzgerald, Wm. E. ...	5300	Steel.	7300	420'	52'	28'	23	9'	12'	4	Arch		1906	<sup>5</sup> 1700	<sup>6</sup> 1700	<sup>6</sup> 1800	<sup>6</sup> 2100									
307	Fleetwood . . . . .	1687	Wood.	2300	265'6"	40' 6"	19' 4"							1887													
118	Follette, James W. ...	756	Wood.	1200	212'3"	35' 6"	12'	5	10'x16'	24'	1			1881													
215	Ford, Emory L. ....	7986	Steel.	12000	580'	60'	32'	35	9'	12'		Arch	Side	1916	<sup>12</sup> 4500	<sup>12</sup> 3300	<sup>11</sup> 4200										
207	Ford, J. C. ....	609	Wood.	950	172'	33'	12'	4	6' 6"x18'	24'	1			1889													
243	Foster, Parks ....	1729	Steel.	2900	262'	38'	23'	7	1-6' Bal.-8'x26'	24'	3			1889	<sup>3</sup> 1300	<sup>3</sup> 1000	<sup>1</sup> 600										
283	Foster, I. N. ....	355	Wood.	500	134'9"	26'	11' 6"							1872													
2	Franz, W. C. (Can.)..	3428	Steel.	5600	346'	48'	28'	10	8'	24'	3			1901	<sup>3</sup> 1900	<sup>4</sup> 1800	<sup>3</sup> 1900										
123	French, G. Watson ...	3883	Steel.	5600	356'	50'	28'	18	9'	12'	3	Arch		1903	<sup>5</sup> 1800	<sup>8</sup> 2000	<sup>5</sup> 1800										
236	Frick, Henry C. ....	6490	Steel.	10500	549'	56'	31'	34	9'	12'	2	Arch	Side	1905	<sup>17</sup> 5000	<sup>17</sup> 5500											
78	Fryer, Robt. L. (Can.)	1810	Wood.	3100	281'	41' 4"	20'	8	8'	24'	1			1888													
236	Fulton, Robert ....	4219	Steel.	6000	414'	45' 6"	28'	12	7' 9"	24'	4			1896	<sup>3</sup> 1700	<sup>3</sup> 1300	<sup>3</sup> 1300	<sup>3</sup> 1700									

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'n'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"								
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6			
BARGES																							
97	Filer, Grace M. (Can.) . . . . .	215	Wood.	450	128'	27'	9'						1874										
99	Filmore, C. J. . . . .	410	Wood.	750	161'	31'	10' 3"	4	12'x13'		1		1889										
76	Ford River (Can.) . . . .	299	Wood.	550	143'	29'	10' 8"						1879										
81	Francombe, J. A. . . . .	658	Wood.	1300	180'	36'	13'	5	8'x11'	24'	1		1889										
24	Freeport (Can.) . . . . .	373	Wood.	650	137'	26'	12'						1873										
236	Fritz, John . . . . .	4693	Steel.	7900	436'	50'	28' 6"	15	8'	24'	4		1898	4 2300	4 1900	4 1900	3 1800						
132	Fryer, Robt. L. . . . .	527	Wood.	1000	175'	33' 3"	11' 3"	5	8'x10'	24'	1		1880										
STEAMERS																							
236	Gary, Elbert H. . . . .	6331	Steel.	10500	549'	56'	31'	34	9'	12'	2	Arch	Side	1905	17 5000	17 5500							
308	Garretson, General . . . .	6765	Steel.	9600	520'	54'	31'	16	12'	24'	4	Arch	Side	1907	4 2600	4 2200	4 2200	4 2600					
236	Gates, John W. . . . .	5946	Steel.	8300	478'	52'	30'	15	8' 2"	24'	6			1900	3 1800	2 1100	2 1100	2 1200	3 1300	3 1800			
134	Gill, Alice M. . . . .	264	Wood.	300	127'	28'	10'	3	No. 1,3-8' No. 2-6'				1887	2	4	3							
148	Gladstone . . . . .	2112	Wood.	3000	283'	40'	23'						1888										
237	Glenarchy (Can.) . . . . .		Steel.	5700	356'	50'	28'	10	8'	24'	3			1902	3 1700	4 2300	3 1700						
237	Glenfinnan (Can.) . . . .	2406	Steel.	3000	324'	42'	23' 9"	10	8'	24'	2				5 1500	5 1500							
237	Glenisla (Can.) . . . . .		Steel.	7000	416'	50'	29'	12	8'	24'	4			1903	3 1800	3 1600	3 1700	3 1900					

**GENERAL DIMENSIONS AND STATISTICS—Continued**

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"															
					Keel L'gth	Beam	Depth	No.	Size	Cent-ers					1	2	3	4	5	6										
<b>STEAMERS</b>																														
237	Glenlivet (Can.)	1860	Steel.	2700	266'	38'	24'	8	8'	24'	3		1891	<sup>2</sup> 800	<sup>3</sup> 800	<sup>3</sup> 1100														
237	Glenlyon (Can.)	2759	Steel.	3000	328'	42'	25'	9	8'	24'	3		1893	<sup>3</sup> 900	<sup>3</sup> 1200	<sup>3</sup> 900														
195	Glenmount (Can.)	2111	Comp.	3300	302'	40'	21' 5"	9	8'4"	24'	2		1887	1750	1550															
237	Glenshee (Can.)	5667	Steel.	9000	480'	54'	30'	14	12'	24'	3	Arch	Side	1908	<sup>4</sup> 2600	<sup>5</sup> 2600	<sup>5</sup> 3300													
52	Gogebic	1680	Wood.	2500	275'	40' 4"	19' 6"	7	8'x28'	24'	1		1887																	
194	Goodyear, Frank H.	8203	Steel.	12000	580'	60'	32'	35	9'	12'	3	Arch	Side	1917	<sup>12</sup> 4400	<sup>12</sup> 3500	<sup>11</sup> 4100													
	Gorizia		Steel.	3000	249'	42' 4"	23'				2		Side	1907	1500	1500														
248	Goulder, Harvey D.	6617	Steel.	9700	525'	55'	31'	32	9'	12'	3	Arch	Side	1906	<sup>10</sup> 3700	<sup>12</sup> 2800	<sup>10</sup> 3700													
	Graham, Geo. A.																													
	(Can.)	2409	Steel.	3300	292'	40'	24' 6"	8	7' 6"	24'	3		1891	<sup>3</sup> 1400	<sup>3</sup> 1000	<sup>2</sup> 900														
17	Grammer, G. J.	4471	Steel.	6600	434'	48'	28'	13	10'	24'	5		1902	<sup>3</sup> 1600	<sup>2</sup> 1000	<sup>2</sup> 1000	<sup>3</sup> 1400	<sup>3</sup> 1600												
63	Grand Island	5630	Steel.	8500	480'	52'	30'	14	12'	24'	4	Arch		1905	<sup>2</sup> 1300	<sup>4</sup> 2200	<sup>4</sup> 2200	<sup>4</sup> 2800												
81	Green, C. H.	694	Wood.	950	192'6"	33'	12' 8"	4	7'x14'	24'	1		1881																	
94	Greene, M. T.	523	Wood.	750	155'	30'	11' 6"	4	9'x16'		1		1887																	

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6
STEAMERS																				
53	Griffin . . . . .	1879	Steel.	2700	266'	38'	24'	8	8'	24'	3		1891	2 800	3 800	3 1100				
34	Groh, Mary . . . . .	139	Wood.	Sand	112'	22'	8'						1873							
164	Gunnell, E. . . . .	688	Steel.	Sand	170'	36'	10'						1912							
BARGES																				
195	Gaskin, John (Can.) . . . . .	521	Wood.	900	165'8"	31' 4"	12'						1881							
241	Gawn, Thomas . . . . .	549	Wood.	1000	170'8"	31' 7"	13' 6"	6	10'x14'		1		1872							
180	Genoa . . . . .	730	Wood	1200	188'9"	34' 1"	13' 2"	5	8'x13'	24'	1		1873							
51	Georger, F. A. (Can.) . . . . .	825	Wood.	1500	200'6"	35' 4"	15'						1874							
118	Gladys, H. (Can.) . . . . .	1045	Wood.	1700	211'	34' 8"	16' 9"						1892							
196	Godfrey, Jeremiah . . . . .	653	Wood.	1250	177'	34' 9"	14'	6	9'x14'	10 to	22'	1	1881							
242	Golden Age . . . . .	1846	Wood.	3100	278'	37' 8"	20'	8	6'x24'		1		1882							
20	Goshawk . . . . .	501	Wood.	950	180'	32' 4"	11' 6"	5	10'x22'	24'	1		1866							
77	Grampian . . . . .	844	Wood.	2200	218'	38'	13' 2"		7'		24'	1	1894							
77	Granada . . . . .	1729	Wood.	3200	247'	40'	21' 6"		8'		24'	1	1895							
8	Grant, Levi . . . . .	204	Wood.	400	127'	27'	8'						1872							
148	Grover, Maurice B. . . . .	2147	Wood.	3300	281'4"	40' 6"	23' 9"						1887							
13	Guido (Can.) . . . . .	135	Wood	250	114'	24'	8'						1856							

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'n's	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"														
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6									
STEAMERS																													
41	Haddington . . . . .	1603	Steel.	3000	243'	42'	18'	6			3			1904	<sup>2</sup> 1100	<sup>2</sup> 800	<sup>2</sup> 1100												
41	Hagarty, J. H. G. (Can.) . . . . .	7462	Steel.	10000	529'	58'	31'	16	10'x40'	24'	6	Arch	Side	1914	<sup>3</sup> 2200	<sup>3</sup> 1800	<sup>2</sup> 1000	<sup>2</sup> 1000	<sup>3</sup> 1800	<sup>3</sup> 2200									
223	Hall (Can.) . . . . .	247	Comp.	300	102'8"	22' 5"	7' 4"							1889															
310	Hall, Henry B. (Can.)	1152	Wood.	1500	213'	35'	19'	6	10'x22'	24'	1			1881															
135	Hall, Stephen C. (Can.) . . . . .	447	Wood.	550	161'2"	30' 5"	10' 6"	4	8'x12'		1			1880															
41	Hamiltonian (Can.) . .	2346	Steel.	3000	244'	42' 6"	26' 6"	6	8'x27'	24'	3			1912															
136	Hanna, D. R. . . . .	7023	Steel.	10200	532'	56'	32'	32	9'	12'	3	Arch	Side	1906	<sup>10</sup> 3700	<sup>12</sup> 2800	<sup>10</sup> 3700												
248	Hanna, H. M., Jr. . . . .	6204	Steel.	9000	504'	54'	30'	15	12'	24'	3	Arch	Side	1908	<sup>5</sup> 3400	<sup>5</sup> 2600	<sup>5</sup> 3500												
123	Hanna, Leonard C. . . .	6356	Steel.	9500	504'	54'	30'	30	9'	12'	3	Arch	Side	1905	<sup>10</sup> 3500	<sup>10</sup> 2500	<sup>10</sup> 3500												
107	Harlow . . . . .	575	Wood.	1000	194'	35'	10' 6"	5	9'x24'		1			1891															
120	Harriet, B. . . . .		Wood.	4000	283'	53' 6"	17'	7	12'x23'	24	3			1895	1600	300	300	Main	Deck	1800									
290	Hart, Frank W. . . . .	4307	Steel.	6300	380'	50'	28'	11	12'	24'	4	Arch		1902	<sup>3</sup> 1800	<sup>3</sup> 1650	<sup>3</sup> 1500	<sup>2</sup> 1350											

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comps nts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"																	
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6												
STEAMERS																																
236	Harvard . . . . .	5054	Steel.	7500	454'	50'	28' 6"	14	8'	24'	6			1900	<sup>3</sup> 1800	<sup>2</sup> 1000	<sup>2</sup> 1000	<sup>2</sup> 900	<sup>2</sup> 1000	<sup>3</sup> 1800												
313	Harvester, The . . . . .	7188	Steel.	10200	525'	58'	31'	32	9'	12'	3	Arch	Side	1911	<sup>10</sup> 3600	<sup>12</sup> 3000	<sup>10</sup> 3600															
236	Harvey, A. F. . . . .	4858	Steel.	6800	420'	50'	28'	12	8'	24'	4	Arch	Side	1904	<sup>3</sup> 1900	<sup>3</sup> 1500	<sup>3</sup> 1500	<sup>3</sup> 1900														
295	Harvey, F. E. . . . .	355	Wood.	Sand	133'	31'	7' 6"							1899																		
164	Hausler, M. G. . . . .	73	Steel.	Sand	144'	35'	10'							1910																		
136	Hazard, F. R. . . . .	5494	Steel.	8500	444'	56'	30'	25	9'	12'	3	Arch	Side	1910	<sup>8</sup> 2800	<sup>9</sup> 2500	<sup>8</sup> 3200															
180	Hazard, W. A. . . . .	372	Wood.	500	154'	29'	11' 8"	3	12'x14'					1890																		
308	Hebard, Chas. S. . . . .	6291	Steel.	9500	504'	54'	30'	30	9'	12'	3	Arch	Side	1906	<sup>10</sup> 3300	<sup>10</sup> 2500	<sup>10</sup> 3700															
119	Hecla . . . . .	1110	Wood.	1800	224'	34' 3"	17' 6"	6	10'x22'	24'	1			1882																		
295	Heiden, Charles . . . . .	717	Steel.	Sand	160'	35'	14'							1913																		
9	Helena . . . . .	2083	Wood.	3200	275'	42'	20'	8	8'	24'	1			1888																		
30	Helen C. . . . .	622	Wood.	900	186'	35'	12' 4"	5	8'x14'	24'	1			1874																		
235	Hemlock . . . . .	4796	Steel.	7300	420'	52'	28'	23	9'	12'	4	Arch		1907	<sup>5</sup> 2000	<sup>6</sup> 1500	<sup>6</sup> 1600	<sup>6</sup> 2100														
166	Hennipin . . . . .	990	Wood.	1200	208'8"	35'	12' 4"							1888																		

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"														
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6									
STEAMERS																													
127	Hettler, H. H. ....	789	Wood.	1200	210'	34' 7"	13' 3"	5	8'x18'	24'	1			1890															
130	Hickley . . . . .	131	Wood.		108'	24'	8'							1901															
123	Hill, James J. ....	6025	Steel.	8300	478'	52'	30'	15	8'	24'	6			1900	<sup>3</sup> 1800	<sup>2</sup> 1100	<sup>2</sup> 1100	<sup>2</sup> 1200	<sup>3</sup> 1300	<sup>3</sup> 1800									
123	Hill, Louis W. ....	7038	Steel.	10500	525'	58'	31'	32	9'	12'	3	Arch	Side	1917	<sup>10</sup> 3600	<sup>12</sup> 3200	<sup>10</sup> 3700												
85	Hilton . . . . .	166	Wood.	250	110'	26' 6"	7' 4"							1867															
40	Holcomb, Ralph T. (Can.) . . . . .	375	Wood.	450	133'	30'	9' 6"							1898															
290	Hoover & Mason ....	5841	Steel.	9500	504'	54'	30'	16	9'	24'	3	Arch		1905	3300	2500	3700												
203	Horn, Charles . . . . .	847	Wood.	1200	182'8"	42' 9"	13' 3"	5	9'x15'	24'	1			1883	.....	.....	.....												
236	Houghton, Douglas ...	5332	Steel.	7300	456'	50'	28'	14	8'	24'	4			1889	<sup>4</sup> 2300	<sup>3</sup> 1300	<sup>3</sup> 1300	<sup>4</sup> 2400											
199	Houghton, H. . . . .	210	Wood.		126'	27'	10'							1889															
236	House, Francis E. ....	7769	Steel.	12000	585'	60'	32'	36	9'	12'	4	Arch	Side	1907	<sup>9</sup> 3500	<sup>9</sup> 2500	<sup>9</sup> 2500	<sup>9</sup> 3500											
44	Howard, W. (Can.) ...	1517	Wood.	1800	225'2"	37' 8"	20' 3"	6	7'	24'	1			1891	<sup>2</sup>	<sup>2</sup>	<sup>2</sup>												
235	Hoyt, James H. ....	4364	Steel.	6600	404'	50'	27'	23	8'	12'	6			1902	<sup>3</sup> 1200	<sup>4</sup> 1000	<sup>4</sup> 1000	<sup>4</sup> 1000	<sup>4</sup> 1000	<sup>4</sup> 1400									
114	Hubbard, Chas. ....	4846	Steel.	7600	438'	52'	28'	13	12'	24'	3	Arch		1907	<sup>5</sup> 2800	<sup>4</sup> 2100	<sup>4</sup> 2700												
248	Hubbard, C. Russell ...	6839	Steel.	10200	532'	56'	31'	32	9'	12'	3	Arch	Side	1906	<sup>10</sup> 3700	<sup>12</sup> 2800	<sup>10</sup> 3700												



GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'n's	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"												
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6							
STEAMERS																											
314	Huron . . . . .	4810	Steel.	6000	416'	56'	30'	21	9'	12'	3	Arch	Side	1914	1000 <sup>4</sup>	2000 <sup>8</sup>	3000 <sup>9</sup>										
247	Huron City . . . . .	368	Wood.	500	167'8"	29'	10' 8"	3	{ 1 & 3-9'x9' 2-9'x11'		1			1867													
136	Hutchinson, J. T. . . . .	3734	Steel.	5500	346'	48'	28'	17	9'	12'	3	Arch		1901	1800 <sup>5</sup>	2200 <sup>8</sup>	1500 <sup>4</sup>										
137	Hydro . . . . .	1282	Steel.		169'	40'	19'							1913													
235	Hydrus . . . . .	4661	Steel.	6800	410'	50'	28'	22	9'	12'	4	Arch	Side	1899	1700 <sup>5</sup>	1600 <sup>6</sup>	1500 <sup>6</sup>	2000 <sup>5</sup>									
BARGES																											
201	Halstead . . . . .	496	Wood.	900	171'1"	33' 4"	12' 6"	4						1873													
195	Hamilton (Can.) . . . . .	970	Comp.	1900	202'	41'	13'	6	8'x20'	24'	3			1901	430	810	510										
245	Hanscombe, Belle . . . . .	294	Wood.	500	138'8"	26'	11'							1874													
88	Harriet D. (Can.) . . . . .	460	Wood.	750	161'6"	32' 2"	11'	5	7' 8"x12'		1			1885													
14	Harrison, Ben . . . . .	538	Wood.	1000	175'	32' 2"	12'							1889													
219	Harsen . . . . .	531	Wood.	1000	144'	40'	10' 7"							1916													
64	Hartnell, Geo. E. . . . .	3265	Steel.	5600	352'	42'	27'	11	8'	24'	3			1896	1700	1800	2100										
15	Hector (Can.) . . . . .	539	Wood.	1000	170'3"	35' 5"	11' 9"							1882													
312	Helvetia . . . . .	793	Wood.	1500	204'6"	35' 6"	13' 8"	6	{ No. 5-5'x9' Bal.-8'x15'6"					1873													
229	Herschel (Can.) . . . . .	238	Wood.	450	121'	26'	10'							1872													

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compn'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
BARGES																				
195	Hilda (Can.) . . . . .	418	Wood.	800	160'	30'	12' 3"						1898							
90	Holland, Grace . . . . .	629	Wood.	1200	189'6"	33'	12' 8"	5	9'x16'		1		1880							
20	Holland, Nelson C. . . . .	564	Wood.	1000	187'6"	31' 8"	11' 2"	5	9'x17'	24'	1		1881							
236	Holley, Alex . . . . .	2721	Steel.	6300	361'6"	46'	26'	12	8'	24'	3	Arch	1896	<sup>4</sup> 2200	<sup>4</sup> 1900	<sup>4</sup> 2200				
113	Hutt, Hattie (Can.) . . .	230	Wood.	400	127'	26'	10'						1873							
STEAMERS																				
255	Ida E. (Can.) . . . . .	181	Wood.	375	132'	28' 6"	9' 3"						1887							
139	Imperial (Oil) (Can.) .	636	Steel.		162'4"	25' 5"	7' 4"						1889							
139	Imperoyal (Oil) (Can.)	2253	Steel.	Oil	249'6"	43' 1"	19' 8"						1913							
139	Impoco (Oil) (Can.) ..	1683	Steel.		242'	40' 1"	20'						1910							
195	India (Can.) . . . . .	976	Wood.	1700	215'9"	36' 4"	15'						1899							
235	Indus . . . . .	3871	Steel.	5600	356'	50'	28'	10	12'	24'	3	Arch	1901	<sup>3</sup> 1900	<sup>4</sup> 1800	<sup>3</sup> 1900				

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'n's	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Cent-ers					1	2	3	4	5	6
STEAMERS																				
139	Iocolite (Can.) . . . . .		Steel.	Oil	250'	43'	18'						1916							
41	Ionic (Can.) . . . . .1708		Iron..	2000	231'	35' 6"	24' 6"	6	Upper Deck 8'x28' Main Deck 8'x16'	24'	4			1872	490	430	400	160		
156	Ireland, Robert L. ....6387		Steel.	9500	504'	54'	30'	30	9'	12'	4	Arch	Side	1914	<sup>7</sup> 2700	<sup>8</sup> 2000	<sup>8</sup> 2000	<sup>7</sup> 2800		
41	Iroquois (Can.) . . . . .2359		Steel.	3500	247'	43'	25' 6"	6	8'	24'	2			1902	1620	1620				
63	Ishpeming . . . . .6924		Steel.	10000	530'	56'	31'	31	9'	12'	3	Arch	Side	1906	<sup>10</sup> 3600	<sup>10</sup> 2800	<sup>11</sup> 3600			
BARGES																				
121	Interlaken . . . . .567		Wood.	1100	170'	34' 2"	11'	5	8'x14'	24'	1			1893						
15	Ireland (Can.) . . . . .339		Wood.	700	147'	28'	9' 6"							1863						
242	Iron Cliff . . . . .1116		Wood.	2000	212'4"	35'	18'	6	12'x29'	24'	1			1881						
STEAMERS																				
120	Jacob, C. W. . . . .2062		Wood.	3000	298'	41'	21'	9	8'	24'	2			1891	1500	1500				
146	Jenkins, Chas. O. ....6285		Steel.	9500	504'	54'	30'	30	9'	12'	3	Arch	Side	1907	<sup>10</sup> 3300	<sup>10</sup> 2500	<sup>10</sup> 3700			
273	Jex, H. N. (Can.) . . . . .441		Wood.	650	169'4"	26' 5"	10' 3"							1868						
17	Jones, B. F. . . . .6939		Steel.	10000	530'	56'	31'	32	9'	12'	3	Arch	Side	1906	<sup>10</sup> 3600	<sup>11</sup> 2800	<sup>11</sup> 3600			

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			MATCHES			Compts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"													
					Keel Length	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6								
STEAMERS																												
235	Jones, Harry R. ....	5315	Steel.	7700	448'	52'	28'	25	9'	12'	6	Arch	1903	<sup>5</sup> 1800	<sup>4</sup> 1100	<sup>4</sup> 1100	<sup>4</sup> 1100	<sup>4</sup> 1200	<sup>4</sup> 1500									
195	Joyland (Can.) .....	1845	Wood.		240'	37'	25'						1884															
41	Juno (Can.) .....	288	Wood.	350	139'7"	26' 8"	8' 8"	4	{ 1-12'x14'6" 2-14'x16'9" 3-13'x16'9" 4-11'7"x16'9"				1895															
235	Jupiter . . . . .	3719	Steel.	5600	346'	48'	28'	10		12'	24'	3	Arch	1901	<sup>3</sup> 1900	<sup>4</sup> 1800	<sup>3</sup> 1900											
BARGES																												
219	Jackson, G. K. (Can.) .	400	Wood.	700	163'6"	31'	9' 1"	4	8'x8'	25'	1		1882															
22	Jennette (Can.) .....	329	Wood.	700	141'	28'	11'						1881															
236	Jenny, W. Le Baron...	3422	Steel.	6000	378'	45'	26'	11	8'	24'	3		1897	<sup>3</sup> 1800	<sup>4</sup> 1900	<sup>4</sup> 2300												
102	Jessie . . . . .	201	Wood.		112'	24'	9'						1900															
167	Jones, Chester B. ....	493	Wood.	900	167'	30' 3"	12'	5	10'x12'	24'	1		1873															
98	Joses . . . . .	120	Wood.	225	99'9"	24'	7' 1"						1866															
147	Judd, E. T. . . . .	389	Wood.	800	149'6"	29' 6"	11' 4"						1872															
STEAMERS																												
202	Kalkaska . . . . .	679	Wood.	900	178'	33' 9"	15' 6"	4	8'x16'	24'	1		1884															

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
STEAMERS																				
38	Kearsarge . . . . .	309½	Steel.		328'	44'	27'						1894							
153	Kelly Island . . . . .	881	Steel.	Sand	175'	38'	10' 6"						1914							
119	Kendall, Harvey J. . . . .	398	Wood.	500	141'7"	31'	9' 4"	5	1 & 5-6'6" x12' 2-3' x12' .3-7'4" x12' 4-2'9" x12'		1		1892							
194	Kennedy, Hugh . . . . .	7064	Steel.	10200	532'	56'	32'	32	9'	12'	3	Arch	Side	1907	10 3700	12 3000	10 3500			
236	Kerr, D. G. . . . .	7756	Steel.	12000	580'	60'	32'	35	9'	12'	3	Arch	Side	1916	12 4500	12 3300	11 4200			
118	Ketchum, J. B., 2d (Can.) . . . . .	1109	Steel.	1500	193'	40' 6"	13'	4	10' Bal. 12'	24'	1			1892						
154	Keybell (Can.) . . . . .	1730	Steel.	3000	244'	42' 6"	20'	6	5-12' x29'-20' x28'	24'	3	Arch		1912	2 1100	2 800	2 1100			
154	Key Port (Can.) . . . . .	1721	Steel.	3000	250'	42' 5"	20'	6	No.-6-26' x29' Bal.-12' x29'	24'	3	Arch		1909	2 1100	3 1200	1 700			
154	Keynor (Can.) . . . . .	1760	Steel.	3100	250'	42' 5"	20'	6	No.-6-20' x28' Bal.-12' x29'	24'	3	Arch		1914	2 1100	2 1100	2 900			
154	Keyvive (Can.) . . . . .	1768	Steel.	3100	250'	42' 5"	20'	6	No.-6-20' x28' Bal.-12' x29'	24'	3	Arch		1913	2 1100	2 1100	2 900			
154	Key West (Can.) . . . . .	1725	Steel.	3000	250'	42' 5"	20'	6	No.-6-26' x29' Bal.-12' x29'	24'	3	Arch		1909	2 1100	3 1200	1 700			
214	King, Geo. . . . .	532	Wood.	750	176'5"	30' 8"	13' 5"	4	8' x14'		1			1874						
17	King, Willis L. . . . .	7568	Steel.	11500	580'	58'	32'	36	9'	12'	3	Arch	Side	1910	12 4000	12 3400	12 4100			
156	Kinney, A. T. . . . .	6328	Steel.	9500	504'	54'	30'	30	9'	12'	3	Arch	Side	1908	10 3300	10 2500	10 3700			

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Com'nts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"												
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6							
STEAMERS																											
23	Kopp, Jacob T. ....	6035	Steel.	8700	480'	54'	30'	14	12'		24'	3	Arch	Side	1907	<sup>4</sup> 2500	<sup>5</sup> 2800	<sup>5</sup> 3400									
308	Kotcher, C. W. ....	4961	Steel.	7400	420'	52'	28'	23	9'		12'	4	Arch		1908	<sup>5</sup> 1750	<sup>6</sup> 1750	<sup>6</sup> 1800	<sup>6</sup> 2100								
BARGES																											
84	Katahdin (Can.) ....	381	Wood.	800	150'	30' 9"	10' 9"								1888												
119	Katie H. (Can.) ....	370	Wood.	800	150'	30'	10'								1904												
193	Keith, Ida .....	489	Wood.	900	163'3"	30' 6"	13' 4"								1873												
245	Kelderhouse, John ....	500	Wood.	900	168'	32'	12'								1867												
153	Kelley, Norman .....	513	Steel.	1500	179'	35'	15'								1905												
81	Kennedy, W. L. ....	1014	Wood.	2100	251'5"	36'	14' 5"	7	11'x19'		24'	1			1882												
259	Kewaunee . ....	206	Wood.	400	123'8"	27' 4"	8' 3"								1866												
15	Kildonan (Can.) ....	499	Wood.	900	174'	33'	11'								1888												
155	King, A. B. ....	594	Wood.	1200	177'	32'	12' 6"		10'x14' 4"						1881												
195	Kingston (Can.) ....	578	Wood.		181'	35'	12'								1898												
238	Kitchen, J. B. (Can.) ...	302	Wood.	625	133'	27'	9'								1873												

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"																				
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6															
<b>BARGES</b>																																			
159	Knapp, F. M. ....	384	Wood.	800	155'	29' 6"	11' 6"	8	9'x16'	16'	1			1867																					
236	Krupp, Alfred .....	3259	Steel.	5800	352'	44'	26'	11	8'	24'	3			1896	<sup>3</sup> 1800	<sup>4</sup> 1900	<sup>4</sup> 2100																		
<b>STEAMERS</b>																																			
123	La Belle .....	6407	Steel.	9500	504'	54'	30'	30	9'	12'	4	Arch	Side	1909	<sup>8</sup> 2700	<sup>7</sup> 1900	<sup>7</sup> 2200	<sup>8</sup> 2700																	
14	La Salle .....	1921	Steel.	2700	266'	38'	24'	8	6' 9"	24'	3			1890	<sup>2</sup> 800	<sup>3</sup> 800	<sup>3</sup> 1100																		
235	Lagonda . . . . .	3647	Steel.	5200	375'	46'	28'	10	8' <sup>9</sup> to 10-12' Bal.-24'		3	Arch		1896	<sup>3</sup> 1600	<sup>4</sup> 2100	<sup>3</sup> 1300																		
211	Lakeland . . . . .	2425	Steel.		280'	39'	24'							1887																					
211	Lakeport . . . . .	1829	W.& I.		263'	36' 4"	27'							1880																					
186	Laketon (Can.) .....	4423	Steel.	6800	416'	50'	28'	12	8'	24'	4			1903	<sup>3</sup> 1900	<sup>3</sup> 1500	<sup>3</sup> 1500	<sup>3</sup> 1900																	
239	Lake Michigan (Can.) .	588	Wood.	450	136'	23' 9"	11' 5"							1872																					
211	Lakewood . . . . .	1917	W.& I.		266'	38'	26'							1884																					
21	Landbo (Can.) .....	2292	Wood.	3200	280'	41' 5"	20'	8	8'	24'	3			1890	900	1350	900																		
48	Langell Boys .....	387	Wood.	500	151'	30'	11' 2"	3	6'x11'	30'	1			1890																					
10	Langell, Simon .....	845	Wood.	1200	195'4"	34' 6"	13' 7"		7'x11'		1			1886																					
17	Laughlin, James .....	6939	Steel.	10000	530'	56'	31'	32	9'	12'	3	Arch	Side	1906	<sup>10</sup> 3600	<sup>11</sup> 2800	<sup>11</sup> 3600																		
114	Leonard, Geo. B. ....	4037	Steel.	6300	380'	50'	28'	11	12'	24'	4	Arch		1903	<sup>3</sup> 1800	<sup>3</sup> 1500	<sup>3</sup> 1600	<sup>2</sup> 1400																	

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"															
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6										
STEAMERS																														
136	Leopold, N. F. . . . .	6929	Steel.	10200	532'	56'	31'	32	9'		12'	3	Arch	Side	1908	<sup>10</sup> 3700	<sup>12</sup> 2800	<sup>10</sup> 3700												
66	Lewiston . . . . .	1808	Comp	3000	272'	38'	21'	1,2 & 8-6"7" 8,6 & 7-7"5" Bal.-8'			24'	3			1886	<sup>2</sup> 900	<sup>3</sup> 900	<sup>3</sup> 1200												
119	Liberty . . . . .	1294	Wood.	2200	240'	39' 6"	18'	6	10'		24'	1			1894															
294	Linden . . . . .	894	Wood	1500	206'	35'	12' 8"	5	10'x20'			1			1895															
236	Linn, Wm. R. . . . .	4328	Steel.	5800	400'	48'	28'	12	8'		24'	4			1898	<sup>3</sup> 1500	<sup>3</sup> 1400	<sup>3</sup> 1400	<sup>3</sup> 1500											
295	Little, C. H. . . . .	324	Wood.	Sand	144'	28'	8'								1903															
73	Livingstone . . . . .	2134	Comp.	3300	281'	41'	22'	7	8'		24'	1			1889															
248	Livingstone, Wm. . . . .	6634	Steel.	10200	532'	58'	31'	30	9'		12'	3	Arch	Side	1908	<sup>9</sup> 3900	<sup>11</sup> 2900	<sup>10</sup> 3400												
235	Lupus . . . . .	3871	Steel.	5600	356'	50'	28'	10	12'		24'	3	Arch		1901	<sup>3</sup> 1900	<sup>4</sup> 1800	<sup>3</sup> 1900												
64	Luzon . . . . .	3582	Steel.	5400	346'	48'	28'	10	8'		24'	4	Arch		1902	<sup>3</sup> 1700	<sup>2</sup> 1000	<sup>2</sup> 1000	<sup>3</sup> 1700											
236	Lynch, Thomas . . . . .	7240	Steel.	11500	580'	58'	32'	36	9'		12'	3	Arch	Side	1907	<sup>12</sup> 4000	<sup>12</sup> 3400	<sup>12</sup> 4100												
BARGES																														
195	Lapwing (Can.) . . . . .	516	Wood.	1000	175'7"	31' 2"	12'								1892															
202	Liberty . . . . .	673	Comp.	1800	234'	36'	13'					3			1878															
35	Lozen, J. B. . . . .	565	Wood.	1100	178'	32' 6"	12' 4"	6	1-4'6" x14' Bal.-9' x14'		19'	1			1890															



GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Com'nts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"															
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6										
BARGES																														
80	Lyon, Mary (Can.) . . . .	334	Wood.	600	138'	26' 2"	12'							1874																
STEAMERS																														
235	McCollough, Jr., C. H. . .	5750	Steel.	10200	532'	56'	31'	32	9'	12'	3	Arch	Side	1907	<sup>10</sup> 3700	<sup>12</sup> 2800	<sup>10</sup> 3700													
236	McDougall, Alex . . . . .	3686	Steel.	6800	413'	50'	27'	13	7' 10"	24'	4			1898	<sup>3</sup> 1800	<sup>3</sup> 1300	<sup>3</sup> 1300	<sup>4</sup> 2400												
236	McGonagle, W. A. . . . .	7811	Steel.	12000	580'	60'	32'	35	9'	12'		Arch	Side	1916	<sup>12</sup> 4500	<sup>12</sup> 3300	<sup>11</sup> 4200													
241	McGregor, Mary A. . . . .	816	Wood.	1000	179'	32' 6"	13'	4	7' 8"x17'	24'	1			1889																
308	McIntosh, H. P. . . . .	6765	Steel.	9600	520'	54'	31'	16	12'	24'	4	Arch	Side	1907	<sup>4</sup> 2600	<sup>4</sup> 2200	<sup>4</sup> 2200	<sup>4</sup> 2600												
295	McKerchey, John M. . . .	732	Steel.	Sand	161'	37' 1"	11'							1906																
136	McKinney, Price . . . . .	4671	Steel.	7600	432'	54'	28'	12	12'	24'	4	Arch	Side	1908	<sup>3</sup> 2200	<sup>3</sup> 1600	<sup>3</sup> 1600	<sup>3</sup> 2200												
236	McLean, J. H. . . . .	4657	Steel.	6800	414'	50'	28'	12	8'	24'	4			1902	<sup>3</sup> 1900	<sup>3</sup> 1500	<sup>3</sup> 1500	<sup>3</sup> 1900												
180	McLouth, Pierce . . . . .	474	Wood.	800	173'6"	30' 7"	12'	4	.8'x14'	24'	1			1880																
BARGES																														
305	McAvoy, H. J. . . . .	533	Wood.	1000	172'	32' 4"	12' 1"							1889																
195	McLachlan, Mary																													
	E. (Can.) . . . . .	1849	Wood.	2900	251'	41'	16' 2"	8	8'	24'	1			1893																

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"																											
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6																						
BARGES																																										
3	McWilliams, Ed. ....	743	Wood.	1500	200'	35'	13' 6"	6	9'x18'	24'	1		1893																													
STEAMERS																																										
237	Major (Can.) .....	2150	Wood.	3200	283'	41'	22'	8	17' 3 1/2 8'	24'	1		1889																													
236	Malietoa . . . . .	5229	Steel.	7500	454'	50'	28' 6"	14	8'	24'	3		1899	<sup>7</sup> 3900	<sup>4</sup> 1700	<sup>3</sup> 1900																										
186	Malton (Can.) .....	1644	Comp.	2600	253'	40'	19'	6	8'	24'	1		1888																													
284	Manchester . . . . .	2132	Comp.	3100	281'	41'	23'	7	8'	24'	3		1889	<sup>2</sup> 800	<sup>3</sup> 1300	<sup>2</sup> 900																										
245	Manistique . . . . .	474	Wood.	500	157'	31'	12' 6"						1882																													
236	Maricopa . . . . .	4223	Steel.	5800	406'	48'	28'	12	8'	24'	4		1896	<sup>3</sup> 1600	<sup>3</sup> 1300	<sup>3</sup> 1300	<sup>3</sup> 1600																									
44	Marian W. (Can.) ....	1530	Wood.	2300	220'	38'	21'	6					1890																													
198	Marion . . . . .	930	Wood.		202'	35'	15'						1889																													
236	Mariposa . . . . .	2831	Steel.	4100	330'	45'	24' 6"	9	8'	24'	3		1892	<sup>3</sup> 1500	<sup>3</sup> 1300	<sup>3</sup> 1500																										
236	Maritana . . . . .	2957	Steel.	4100	320'	45'	24' 6"	9	8'	24'	3		1892	<sup>3</sup> 1500	<sup>3</sup> 1100	<sup>3</sup> 1500																										

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
STEAMERS																				
36	Markham, Geo. C. . . . .	309	Wood.	450	141'	28'	10' 8"	3	9'x9'		1			1883						
63	Marquette . . . . .	4956	Steel.	7200	420'	52'	28'	12	12'		3	Arch		1906	<sup>3</sup> 2000	<sup>5</sup> 2700	<sup>4</sup> 2500			
235	Mars . . . . .	4877	Steel.	6800	416'	50'	28'	22	9'		4	Arch	Side	1899	<sup>5</sup> 1700	<sup>6</sup> 1600	<sup>6</sup> 1500	<sup>5</sup> 2000		
245	Marshall, Maggie . . . . .	365	Wood	400	150'	30'	11' 4"	3	8'x13'		1			1873						
91	Marshall, Samuel (Can.) . . . . .	755	Wood	1100	198'	34'	16' 6"	5	9'x16'		1			1888						
41	Martian (Can.) . . . . .	3396	Steel.	5600	346'	48'	28'	10	8'		3			1901	<sup>3</sup> 1900	<sup>4</sup> 1800	<sup>3</sup> 1900			
236	Mather, Samuel . . . . .	1713	Steel.	3500	308'	38'	24'	12	7' 6"		1			1892						
235	Mather, Samuel . . . . .	6751	Steel.	10500	530'	60'	31'	32	9'		3	Arch	Side	1906	<sup>10</sup> 3800	<sup>12</sup> 2900	<sup>10</sup> 3800			
63	Mather, Wm. G. . . . .	6838	Steel.	10000	513'	60'	31'	30	9'		3	Arch	Side	1905	<sup>10</sup> 3400	<sup>10</sup> 3200	<sup>10</sup> 3400			
236	Mataafa . . . . .	4840	Steel.	7300	430'	50'	28' 6"	13	8'		5			1899	<sup>3</sup> 1900	<sup>2</sup> 1000	<sup>2</sup> 1000	<sup>2</sup> 1000	<sup>4</sup> 2400	
41	Matthews, W. D. (Can.) . . . . .	3965	Steel.	5600	358'	48'	28'	10	9'		4			1903	<sup>2</sup> 1300	<sup>3</sup> 1500	<sup>2</sup> 1500	<sup>2</sup> 1300		

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"														
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6									
STEAMERS																													
168	Mauch Chunk . . . . .	4449	Steel.		381'7"	50' 5"	28'							1901															
236	Maunaloa . . . . .	4951	Steel.	7000	430'	50'	28' 6"	13	8'		24'	6		1899	1800	1000	1000	1000	1000	1000	1000	1000	1200						
103	Maytham, Thomas . . . . .	2329	Steel.	3600	286'	41'	24'	8	8'		24'	1		1892															
103	Mecosta . . . . .	1776	Wood.	3000	281'	40'	20'	7	6'6"		24'	2		1888	1500	1500													
119	Mercur, Fred . . . . .	1224	Wood.	1500	232'	35' 6"	20'	6	10'x22'		24'	1		1882															
96	Miami (Can.) . . . . .	228	Wood.	400	131'	28'	10'	3	8'x10'		24'	1		1888															
63	Michigan . . . . .	6924	Steel.	10000	530'	56'	31'	31	9'		12'	3	Arch	Side	1906	3600	2800	3600											
41	Midland King (Can.)	3959	Steel.	5500	358'	48'	28'	10	9'		24'	4			1903	1500	1500	1200	1200										
41	Midland Prince (Can.) . . . . .	6636	Steel.	8700	466'	55'	31'	14	9'		24'	4			1907	2200	2200	1900	1900										
123	Midvale . . . . .	8271	Steel.	12000	580'	60'	32'	18	12'		24'	4	Arch	Side	1917	3100	2800	2800	3300										
248	Miller, Leonard B. . . . .	6291	Steel.	9500	504'	54'	30'	15	12'		24'	3	Arch	Side	1910	3200	3100	3200											
17	Miller, P. P. . . . .	3845	Steel.	5700	354'	48'	28'	10	8'		24'	4			1903	1700	1100	1100	1800										
235	Mills, D. O. . . . .	6598	Steel.	10300	532'	58'	31'	33	9'		12'	3	Arch	Side	1907	3700	2900	3700											

**GENERAL DIMENSIONS AND STATISTICS—Continued**

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"														
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6									
<b>STEAMERS</b>																													
234	Mills, David W. ....	925	Wood.	1200	202'	34'	13' 2"	5	9' 6"x16' 6"	23'	1			1874															
289	Mills, J. E. (Can.) .....	149	Wood.		108'	23' 5"	7' 8"							1883															
116	Milwaukee . . . . .	3327	Steel.		325'	44'	28'							1902															
281	Minch, Anna C. ....	4285	Steel.	6300	380'	50'	28'	20	9'	12'	4	Arch		1903	<sup>5</sup> 1800	<sup>6</sup> 1600	<sup>6</sup> 1600	<sup>3</sup> 1300											
281	Minch, Philip .....	5865	Steel.	8700	480'	52'	30'	28	9'	12'	3	Arch	Side	1905	<sup>10</sup> 3300	<sup>9</sup> 2100	<sup>9</sup> 3300												
305	Mitchell, G. A. ....	700	Wood.	1000	194'	33'	16' 6"	4	8'x12'	24'				1883															
236	Mitchell, Pentecost ..	4655	Steel.	6800	416'	50'	28'	12	8'	24'	4	Arch	Side	1903	<sup>3</sup> 1900	<sup>2</sup> 1500	<sup>3</sup> 1500	<sup>3</sup> 1900											
180	Mitchell, Samuel .....	2277	Steel.	3200	293'	40' 6"	24' 6"	8	1-6', Gal.-8'	24'	3			1892	<sup>2</sup> 1000	<sup>3</sup> 1000	<sup>3</sup> 1200												
23	Moll, Clifford F. ....	5141	Steel.	8300	444'	56'	28'	13	12'	24'	3	Arch	Side	1909	<sup>4</sup> 2800	<sup>5</sup> 2700	<sup>4</sup> 2800												
41	Morden, W. Grant (Can.) . . . . .	8973	Steel.	12500	604'	59'	32'	38	9'	12'	6	Arch	Side	1914	<sup>6</sup> 2400	<sup>4</sup> 1200	<sup>8</sup> 2400	<sup>4</sup> 1100	<sup>8</sup> 2400	<sup>8</sup> 3000									
236	Morgan, J. P. ....	7161	Steel.	11500	580'	58'	32'	35	9' 6"	12'	3	Arch	Side	1906	<sup>11</sup> 4000	<sup>12</sup> 3400	<sup>12</sup> 4100												
236	Morgan, J. P., Jr. ....	7521	Steel	11500	580'	58'	32'	36	9' 6"	12'	3	Arch	Side	1910	<sup>12</sup> 4000	<sup>12</sup> 3400	<sup>12</sup> 4100												
252	Morley, Wm.B.(Can.)	1911	Wood.	2500	240'	42' 8"	24' 8"							1892															

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
STEAMERS																				
123	Morrell, Daniel J. . . . .	7239	Steel.	11500	580'	58'	32'	18	12'	24'	3	Arch	Side	1906	<sup>6</sup> 4300	<sup>6</sup> 2800	<sup>6</sup> 4300			
123	Morris, Effingham B. . .	6971	Steel.	10200	530'	56'	31'	31	9'	12'	3	Arch	Side	1907	<sup>10</sup> 3900	<sup>11</sup> 2600	<sup>10</sup> 3700			
265	Morrow, Joe S. . . . .	4895	Steel.	7300	420'	52'	28'	23	9'	12'	4	Arch		1907	<sup>5</sup> 2000	<sup>6</sup> 1500	<sup>6</sup> 1600	<sup>6</sup> 2100		
64	Morrow, John F. . . . .	1961	Steel.	3200	246'	41'	24' 6"	6	8'	24'	2			1890	2200	1000				
235	Morse, Jay C. . . . .	6649	Steel.	10300	532'	58'	31'	32	9'	12'	3	Arch	Side	1907	<sup>10</sup> 3700	<sup>11</sup> 2900	<sup>11</sup> 3700			
236	Morse, Samuel F.																			
	B. . . . .	4936	Steel.	7500	456'	50'	29'	15	8'	24'	4			1898	<sup>4</sup> 2300	<sup>3</sup> 1200	<sup>3</sup> 1200	<sup>5</sup> 2800		
132	Mueller . . . . .	567	Wood.	850	172'	30'	12' 6"	4	1 & 4-8'2" x 14'3" 2 & 3-10'3" x 14'3"		1			1887						
136	Mullen, Martin . . . . .	4635	Steel.	7000	416'	50'	28'	23	9'	12'	4	Arch		1904	<sup>5</sup> 1900	<sup>6</sup> 1500	<sup>6</sup> 1500	<sup>6</sup> 2100		
116	Muncy . . . . .	3863	Steel.		350'	46'	30'							1902						
63	Munising . . . . .	4309	Steel.	6300	380'	50'	28'	11	8'	24'	4			1902	<sup>3</sup> 1800	<sup>3</sup> 1650	<sup>3</sup> 1500	<sup>2</sup> 1350		
236	Murphy, Simon J. . . . .	4869	Steel.	7400	428'	51' 6"	28'	13	8' 3"	24'	4			1900	<sup>3</sup> 2000	<sup>3</sup> 1500	<sup>3</sup> 1500	<sup>4</sup> 2400		
20	Myron . . . . .	676	Wood.	950	186'	32' 6"	13'	4	10' x 24'	24'				1888						

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.

**GENERAL DIMENSIONS AND STATISTICS—Continued**

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES				Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"								
					Keel L'gth	Beam	Depth	No.	Size	Cen- ters	Comp'ts			Con- struction	1	2	3	4	5	6		
	<b>BARGES</b>																					
150	Magill, C. J. (Can.) . . .	334	Wood.	600	141'	30' 5"	11' 8"						1863									
236	Magna . . . . .	3259	Steel.	5800	352'	44'	26'	11	8'		24'	3	1896	<sup>3</sup> 1800	<sup>4</sup> 1900	<sup>4</sup> 2100						
236	Maia . . . . .	3804	Steel.	6300	376'	48'	26'	12	8'		24'	3	1898	<sup>4</sup> 2200	<sup>4</sup> 1900	<sup>4</sup> 2200						
236	Maida . . . . .	3474	Steel.	6300	376'	46'	26'	12	8'		24'	3	1898	<sup>4</sup> 2200	<sup>4</sup> 1900	<sup>4</sup> 2200						
195	Mamie (Can.) . . . . .	370	Wood.	700	129'4"	28'	11' 2"						1897									
236	Manda . . . . .	3256	Steel.	5500	352'	44'	26'	11	8'		24'	3	1896	<sup>3</sup> 1800	<sup>4</sup> 1600	<sup>4</sup> 2100						
236	Manila . . . . .	5039	Steel.	7900	436'	50'	28' 6"	14	8'		24'	6	1899	<sup>2</sup> 1400	<sup>2</sup> 1000	<sup>2</sup> 1000	<sup>2</sup> 1000	<sup>3</sup> 1500	<sup>3</sup> 2000			
236	Marcia . . . . .	2237	Steel.	4000	302'	40'	25'	9	8'		24'	3	1895	<sup>3</sup> 1400	<sup>3</sup> 1200	<sup>3</sup> 1400						
236	Marsala . . . . .	5039	Steel.	7900	436'	50'	28' 6"	14	8' 3"		24'	6	1900	<sup>2</sup> 1400	<sup>2</sup> 1000	<sup>2</sup> 1000	<sup>2</sup> 1000	<sup>3</sup> 1500	<sup>3</sup> 2000			
77	Matanzas . . . . .	2600	Wood.	4500	324'	45' 6"	21' 6"	11	8'		24'	1	1899									
236	Martha . . . . .	3256	Steel.	5500	352'	44'	26'	11	8'		24'	3	1896	<sup>3</sup> 1800	<sup>4</sup> 1600	<sup>4</sup> 2100						
119	Mathews, Jennie . . . . .	332	Wood.	500	138'	26'	12'						1874									
195	Melrose (Can.) . . . . .	740	Wood.	1300	183'6"	35' 8"	14'						1895									
15	Menominee (Can.) . . . . .	575	Wood.	900	166'2"	33' 1"	10' 9"						1883									
274	Merrill, Julia B. (Can.) . . . . .	200	Wood.	500	152'	27'	8' 5"	4	10'x12'		24'	1	1872									
239	Minch, Sophia (Can.) . . . . .	538	Wood.	1100	184'	33'	13' 8"	5	14'x14'			1	1873									

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
BARGES																				
242	Mingoe . . . . .	712	Wood.	1300	198'6"	36'	12'	6	8'x11'	24'	1		1893							
20	Miztec . . . . .	777	Wood.	1350	194'	34' 6"	14'	5	8' 6"x18'	24'			1890							
77	Montezuma . . . . .	2722	Wood.	4900	342'	46'	21' 6"	11	8'	24'	1		1903							
239	Moran, David . . . . .	372	Wood.	750	162'	36'	9'						1901							
180	Mowatt, James . . . . .	523	Wood.	950	166'4"	33' 1"	13'	5	3-4'x10' Bal.-8'x14'		1		1884							
226	Mowatt, Oliver (Can.) . . . . .	244	Wood.	500	131'2"	25' 9"	10' 6"						1873							
96	Mueller, Minnie . . . . .	199	Wood.	400	120'	26' 4"	9' 7"						1867							
239	Muir, A. (Can.) . . . . .	330	Wood.	500	138'	23' 9"	11' 4"						1874							
STEAMERS																				
98	Neff, Sidney O. . . . .	435	Wood.	500	149'6"	30'	10' 6"	3	8'x8'	20'	1		1890							
63	Negaunee . . . . .	4305	Steel.	6300	380'	50'	28'	11	8'	24'	4		1902	1800 <sup>3</sup>	1650 <sup>3</sup>	1500 <sup>3</sup>	1350 <sup>2</sup>			
236	Neilson, James B. . . . .	2234	Steel.	3500	308'	42'	25'	8	7' 9"	24'	1	Arch	1892							
235	Neptune . . . . .	3717	Steel.	5600	346'	48'	28'	10	12'	24'	3	Arch	1900	1900 <sup>3</sup>	1800 <sup>4</sup>	1900 <sup>3</sup>				
203	Nessen, N. J. . . . .	440	Wood.	500	149'	37'	11' 5"	3	8'x12'		1		1880							
114	Nettleton, A. E. . . . .	6286	Steel.	9800	525'	55'	31'	31	9'	12'	3	Arch	1908	3400 <sup>10</sup>	3000 <sup>11</sup>	3400 <sup>10</sup>				
86	Nevada (Can.) . . . . .	1257	Steel.	2000	230'	34' 1"	21' 1"				4		1890	513	215	230	290			



GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"														
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6									
STEAMERS																													
123	Newbold, Arthur E. ...	6971	Steel.	10300	530'	56'	31'	32	9'		12'	3	Arch	Side	1908	<sup>11</sup> 3900	<sup>11</sup> 2600	<sup>10</sup> 3700											
100	Newona (Can.) .....	2179	Steel.		250'	43' 5"	25'				24'	3			1909														
23	Niagara . . . . .	1951	Steel.	3000	266'	42'	20'	7	8'		24'	1			1897														
196	Nicaragua . . . . .	1201	Wood.	2400	241'	37'	22' 8"								1894														
121	Niko . . . . .	814	Wood.	1150	189'	35'	13'	4	1.2-7'x14' 3.4-6'9"x14'			1			1889														
42	Nipigon . . . . .	626	Wood.	1150	191'	34'	13' 7"	4	7'x13' 7"			1			1883														
242	Normandie . . . . .	562	Wood.	700	160'	35'	11' 6"								1894														
116	North Lake . . . . .	3861	Steel.	5000	350'	46'	30'								1909														
116	North Sea . . . . .	3921	Steel.	5000	350'	46'	30'								1909														
116	North Star . . . . .	3849	Steel.	5000	350'	46'	30'								1909														
248	Norton, David Z. ....	5667	Steel.	8500	480'	52'	30'	14	12'		24'	3	Arch	Side	1906	<sup>4</sup> 2900	<sup>5</sup> 2500	<sup>5</sup> 3100											
114	Norway . . . . .	6673	Steel.	9700	504'	58'	30'	23	9'		12'	3	Arch	Side	1910	<sup>10</sup> 3500	<sup>9</sup> 2700	<sup>10</sup> 3500											
114	Nottingham, Wm. ...	4234	Steel.	6300	380'	50'	28'	11	12'		24'	4	Arch		1902	<sup>3</sup> 1800	<sup>3</sup> 1500	<sup>3</sup> 1600	<sup>2</sup> 1400										
136	Nye, Harold B. ....	3851	Steel.	6300	380'	50'	28'	20	9'		12'	4	Arch	Side	1902	<sup>5</sup> 1800	<sup>6</sup> 1600	<sup>6</sup> 1600	<sup>3</sup> 1300										
BARGES																													
195	Nadine (Can.) .....	484	Wood.	900	166'	29' 8"	12' 6"								1899														
236	Nasymith, James ....	3422	Steel.	5700	366'	44'	26'	11	8'		24'	3			1896	<sup>3</sup> 1700	<sup>4</sup> 1900	<sup>4</sup> 2100											

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"											
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6						
BARGES																										
145	Nau, Libbie .....	236	Wood.	450	129'	26' 6"	10'							1867												
178	New Dominion (Can.)	196	Wood.		117'6"	25' 3"	9' 2"							1868												
149	Newland, J. B.(Can.)	145	Wood.	300	111'4"	26' 2"	7' 7"							1870												
121	Norris, Alice B. ....	692	Wood.	1300	194'	32' 4"	13' 2"	6	1 & 6-4'10" x12'6" Bal.-6'6" x12'6"					1872												
236	No. 137 .....	2480	Steel.	5500	352'	45'	26'	12	7' 9"	24'	3			1896												
STEAMERS																										
213	O'Connor, Frank .....	2340	Wood.	3500	301'	42' 6"	22' 8"	9	8'	24'	2			1892	2000	1500										
198	Oades, John .....	1454	Wood.	1900	212'	36'	24'							1890												
215	Oakes, H. K. ....	6215	Steel.	9200	504'	52'	30'	29	9'	12'	3	Arch	Side	1907	3200	2600	3400									
195	Oatland (Can.) .....	1854	Wood.		241'7"	36' 7"	24'							1884												
302	Oceanica . ....	1490	Wood.	2500	263'	37' 3"	21'	6	7'x21'	24'	1			1881												
225	Odanah . ....	4907	Steel.	7300	420'	52'	28'	23							5	6	6	6								
101	Ogemaw . ....	594	Wood.	650	162'6"	30'	11' 4"	3	12'x13'		1			1861												
103	Oglebay, E. W. ....	3666	Steel.	5200	375'	45'	26'	10	8'	24'	3			1896	1800	1600	1800									
17	Ohl, Edwin N. ....	5141	Steel.	7600	420'	54'	28'	23	9'	12'	4	Arch	Side	1907	1800	1800	1800	2200								
236	Olcott, Wm. J. ....	7568	Steel.	11500	580'	58'	32'	36	9'	12'	3	Arch	Side	1910	4000	3400	4100									

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"																				
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6															
<b>STEAMERS</b>																																			
39	Omaha (Can.) . . . . .	1251	Wood.	1800	215'	34'	19'	6	7'	1 to 2-12' Bal.-24'	1			1887																					
77	Orinoco . . . . .	2226	Wood	3400	295'	44'	23'	8	8'		24'	1	1898																						
38	Orr, Arthur . . . . .	2745	Steel.	4500	335'	41'	24' 7"						1893																						
308	Osborne, A. W. . . . .	3826	Steel.	6400	400'	48'	28'	21	9'		12'	4	Arch	Side	1896	1800	1500	1600	1500																
285	Osborn, Frank C. . . . .	681	Steel.		155'	37'	10'						1912																						
41	Osler, E. B. (Can.) . . . .	6786	Steel.	9000	491'	56'	31'	14	10' 6"		24'	5	Arch		1907	<sup>2</sup> 1500	<sup>3</sup> 1800	<sup>3</sup> 1800	<sup>3</sup> 1800	<sup>3</sup> 1800	<sup>3</sup> 2100														
199	Otis, John . . . . .	301	Wood	450	148' 7"	27' 4"	10' 6"						1864																						
192	Overland (Can.) . . . . .	758	Wood.	950	215'	31'	10' 6"	4					1881																						
248	Owen, John . . . . .	2127	Comp	3200	281'	41'	21'	7	7' 9"		24'	1	1889																						
<b>BARGES</b>																																			
283	Oak Leaf . . . . .	395	Wood.	750	160'	31' 2"	10' 7"						1866																						
245	Orton, Minnie E. . . . .	431	Wood.	800	172'	31'	11' 6"	5	1-10'x16' Bal.-8'x16'		24'	1	1884																						
81	Our Son . . . . .	720	Wood.	1300	182' 1"	35' 1"	13'	5	1 to 4-9'x14" 5-10'x14'		24'	1	1875																						

The small figure above the capacity of each compar tment indicates the number of hatches in each compartment.

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"										
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6					
	<b>BARGES</b>																								
209	Owen, Geo. B. ....	744	Wood.	1500	196'	34'	13' 2"	6	1,2,3,6-7' 4,5-9'	24'	1			1893											
	<b>STEAMERS</b>																								
44	Packer, H. E. (Can.)	1183	Wood.	1500	225'	35'	19'							1882											
121	Pahlow, Lewis .....	366	Wood.	500	155'	30'	11'	3	9'x11' 6"					1882											
64	Paisley, Robt. R. ....	3762	Steel.	5800	360'	50'	28'	10	9'	24'	4			1903	<sup>2</sup> 1200	<sup>3</sup> 1800	<sup>3</sup> 1500	<sup>2</sup> 1300							
136	Paine, Wm. A. ....	5798	Steel.	8500	480'	52'	30'	28	9'	12'	3	Arch	Side	1905	<sup>10</sup> 3100	<sup>9</sup> 2100	<sup>9</sup> 3300								
236	Palmer, Wm. P. ....	7602	Steel.	11500	580'	58'	32'	34	9'	12'	3	Arch	Side	1910	<sup>10</sup> 4000	<sup>12</sup> 3400	<sup>12</sup> 4100								
64	Panay . . . . .	3811	Steel.	5600	356'	50'	28'	10	8'	24'	3	Arch		1902	<sup>3</sup> 1900	<sup>4</sup> 1800	<sup>3</sup> 1900								
236	Pargny, E. W. ....	7724	Steel.	12000	580'	60'	32'	35	9'	12'		Arch	Side	1916	<sup>12</sup> 4500	<sup>12</sup> 3300	<sup>11</sup> 4200								
159	Parks, O. E. ....	392	Wood.	475	134'5"	28'	11'	3	7'x13'		1			1891											
235	Pathfinder . . . . .	2424	Steel.	4100	320'	42'	25'	9	8'	24'	1	Arch	Side	1892											
245	Pawnee . . . . .	639	Wood.	900	174'	32' 6"	13' 2"	4	8'x14'	24'	1			1889											

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"														
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6									
STEAMERS																													
235	Pegasus . . . . .	4776	Steel.	6300	416'	50'	28'	12	8'		24'	4			1902	<sup>3</sup> 1900	<sup>3</sup> 1500	<sup>3</sup> 1500	<sup>3</sup> 1900										
267	Penobscot . . . . .	4077	Steel.	6700	454'	44' 6"	26' 7"	14	8'		24'	4			1895	<sup>3</sup> 1600	<sup>4</sup> 1800	<sup>4</sup> 1700	<sup>3</sup> 1600										
153	Penobscot . . . . .	272	Wood.	Sand	129'	27' 4"	9' 3"								1880														
220	Pentland . . . . .	827	Wood.	1150	192'8"	35' 6"	12' 3"	5	7'		24'	1			1894														
236	Perkins, Geo. W. . . . .	6406	Steel.	10500	549'	56'	31'	34	9'		12'	2	Arch	Side	1905	<sup>17</sup> 5000	<sup>17</sup> 5500												
235	Perseus . . . . .	4978	Steel.	8200	464'	50'	28'	14	8'		24'	4			1905	<sup>3</sup> 1900	<sup>4</sup> 2200	<sup>4</sup> 2200	<sup>3</sup> 1900										
290	Philbin, D. M. . . . .	6272	Steel.	9500	504'	54'	30'	30	9'		12'	3	Arch	Side	1905	<sup>10</sup> 3300	<sup>10</sup> 2500	<sup>10</sup> 3700											
236	Phipps, Henry . . . . .	7240	Steel.	11500	580'	58'	32'	36	9'		12'	3	Arch	Side	1907	<sup>12</sup> 4000	<sup>12</sup> 3400	<sup>12</sup> 4100											
136	Pierce, E. L. . . . .	5494	Steel.	8500	444'	56'	30'	25	9'		12'	3	Arch	Side	1910	<sup>5</sup> 2800	<sup>5</sup> 2500	<sup>8</sup> 3200											
63	Pioneer . . . . .	6316	Steel.	9500	504'	54'	30'	30	9'		12'	3	Arch	Side	1906	<sup>10</sup> 3300	<sup>10</sup> 2600	<sup>10</sup> 3600											
	Plummer, J. H. (Can.)	1582	Steel.	1800	246'	37'	24'	5	1-14'x10' Bal.-14'x20'			2			1903	<sup>5</sup> 850	<sup>5</sup> 850												
236	Poe, Gen. Orlander M.	5619	Steel.	7800	470'	50'	29'	15	8'		24'	4			1900	<sup>3</sup> 1700	<sup>4</sup> 1900	<sup>4</sup> 1900	<sup>4</sup> 2300										
17	Pollock, W. G. . . . .	4872	Steel.	7300	420'	52'	28'	23	9'		12'	4	Arch	Side	1906	<sup>5</sup> 1700	<sup>6</sup> 1700	<sup>6</sup> 1800	<sup>6</sup> 2100										
136	Polynesia . . . . .	3640	Steel.	5700	376'	46'	26'	11	8'		24'	3			1897	<sup>4</sup> 2000	<sup>4</sup> 2000	<sup>3</sup> 1700											
63	Pontiac . . . . .	8200	Steel.	12000	580'	60'	32'	18	12'		24'	4	Arch	Side	1917	<sup>4</sup> 3100	<sup>5</sup> 2800	<sup>5</sup> 2800	<sup>4</sup> 3300										

**GENERAL DIMENSIONS AND STATISTICS—Continued**

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"							
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6		
<b>STEAMERS</b>																						
285	Powell, L. G. ....	143	Wood.	Sand	105'	27' 5"	6'						1903									
180	Prentice, J. H. ....	535	Wood.	850	167'6"	32'	12' 2"	4	8'x14'		1		1885									
63	Presque Isle .....	4578	Steel.	6600	406'	50'	28'	12	12'	24'	4	Arch	1898	<sup>3</sup> 1800	<sup>3</sup> 1500	<sup>3</sup> 1500	<sup>3</sup> 1800					
236	Princeton . ....	5125	Steel.	7500	454'	50'	28' 6"	14	8'	24'	6		1900	<sup>3</sup> 1800	<sup>2</sup> 1000	<sup>2</sup> 1000	<sup>2</sup> 900	<sup>2</sup> 1100	<sup>3</sup> 1800			
<b>BARGES</b>																						
20	Page, Marion W. ....	762	Wood.	1200	193'	34'	13' 8"	6	10'x22'	24'	1		1876									
153	Pellatt, J. H. ....	346	Steel.	1500	179'	35'	15'						1905									
41	Pennington, B. L. ....	1142	Wood.	2200	239'	38' 2"	14' 6"						1889									
20	Peshtigo . ....	633	Wood.	1000	201'	34' 4"	12'	6	10'x22'	24'	1		1889									
104	Progress . ....	828	Wood.	1800	255'	37'	21'						1880									
<b>STEAMERS</b>																						
236	Queen City .....	3979	Steel.	5800	400'	48'	28'	12	8'	24'	1		1896									

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
<b>Barges</b>																				
304	Quale, Thomas .....	610	Wood.	1200	180'5"	30'	32' 5"						1872							
219	Quebec (Can.) .....	1016	Steel.	1900	206'2"	40'	14' 6"	6	8'x20'				1901							
<b>Steamers</b>																				
20	Ralph, P. J. ....	964	Wood.	1200	211'5"	37'	14'	5	7'x15' 3"		1		1889							
290	Ranney, Rufus P. ....	4797	Steel.	7300	420'	52'	28'	12	12'	24'	4	Arch	1908	<sup>3</sup> 2100	<sup>3</sup> 1500	<sup>3</sup> 1500	<sup>3</sup> 2100			
236	Ream, Norman B. ....	7053	Steel.	11500	580'	58'	32'	36	9' 8"	12'	3	Arch	1906	<sup>12</sup> 4000	<sup>12</sup> 3400	<sup>12</sup> 4100				
153	Recor, E. P. ....	368	Wood.	600	123'	30'	9' 9"						1902							
23	Reeb, M. A. ....	3762	Steel.	5800	360'	50'	28'	10	8'	24'	4		1903	<sup>2</sup> 1200	<sup>3</sup> 1800	<sup>3</sup> 1500	<sup>2</sup> 1300			
235	Reed, James H. ....	5598	Steel.	7700	448'	52'	28'	25	9'	12'	6	Arch	1903	<sup>5</sup> 1300	<sup>4</sup> 1100	<sup>4</sup> 1000	<sup>4</sup> 1100	<sup>4</sup> 1200	<sup>4</sup> 1500	
208	Rees, W. D. ....	3760	Steel.	5800	396'	45'	28'	12	8'	24'	4		1896	<sup>2</sup> 1400	<sup>3</sup> 1200	<sup>4</sup> 1800	<sup>2</sup> 1400			
235	Regulus . ....	4805	Steel.	6800	416'	50'	28'	12	8'	24'	4		1900	<sup>3</sup> 1900	<sup>2</sup> 1500	<sup>3</sup> 1500	<sup>3</sup> 1900			
246	Reiss, Clemens A. ....	4897	Steel.	7000	430'	50'	28' 6"	13	8'	24'	3		1901	<sup>5</sup> 2500	<sup>4</sup> 2100	<sup>4</sup> 2400				
208	Reiss, John P. ....	6432	Steel.	9500	504'	54'	30'	30	9'	12'	4	Arch	1910	<sup>7</sup> 2600	<sup>8</sup> 2000	<sup>7</sup> 2000	<sup>8</sup> 2900			
246	Reiss, Otto M. ....	4897	Steel.	7000	430'	50'	28' 6"	13	8'	24'	6		1901	<sup>3</sup> 1500	<sup>2</sup> 1100	<sup>2</sup> 1000	<sup>2</sup> 1000	<sup>2</sup> 1100	<sup>2</sup> 1300	
208	Reiss, Peter ....	5923	Steel.	9500	504'	54'	30'	30	9'	12'	4	Arch	1910	<sup>7</sup> 2700	<sup>8</sup> 2000	<sup>8</sup> 2000	<sup>7</sup> 2800			
246	Reiss, Richard J. ....	4409	Steel.	7000	430'	50'	28' 6"	13	12'	24'	3	Arch	1901	2600	2000	2400				

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"									
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6				
STEAMERS																								
246	Reiss, Wm. A. ....	4406	Steel.	7000	430'	50'	28' 6"	13	12'		24'	3	Arch	Side	1901	2600	2000	2400						
	Renown . . . . .	4154	Steel.	Oil	373'	52'	25'								1912									
236	Rensselaer . . . . .	5124	Steel.	7800	454'	50'	28' 6"	14	8'		24'	2			1900	6000	1800							
123	Replogle, J. Leonard...	6996	Steel.	10500	549'	56'	31'	34	9'		12'	3	Arch	Side	1906	3500	3500	3500						
17	Rhodes, Joshua W. ...	4872	Steel.	7300	420'	52'	28'	23	9'		12'	4	Arch		1906	1700	1700	1800	2100					
118	Rhodes, R. R. (Can.)...	1598	Wood.	2400	246'	40'	21'	6	7'		24'	1			1887									
44	Richard, W. (Can.) ...	1493	Wood.	2000	228'	36' 3"	19'	6	7'		24'	1			1891									
237	Richardson, G. A. ....	2237	Steel.	3000	266'	41'	25' 6"								1893									
236	Richardson, R. R. ...	4644	Steel.	6800	416'	50'	28'	12	12'		24'	4	Arch	Side	1902	1900	1500	1500	1900					
248	Richardson, W. C. ....	4937	Steel.	7200	420'	52'	29'	12	12'		24'	4	Arch		1908	2100	1500	1500	2100					
249	Richland, Queen .....	2228	Wood.	3360	295'	44'	21'	8	8'		24'	1			1898									
249	Richland, Star .....	2051	Wood.	3200	293'	41'	21'	16	8'		12'	2			1891	1400	1800							
186	Riverton (Can.) .....	4466	Steel.	7000	452'	48'	28'	14	8'		24'	4	Arch		1896	1800	1600	1300	2300					
17	Robbins, Francis L. ...	4222	Steel.	6200	380'	50'	28'	20	9'		12'	3	Arch		1905	2200	1800	2200						
308	Robbins, S. H. ....	4909	Steel.	7300	444'	50'	28' 6"	13	12'		24'	4	Arch		1899	1900	1900	2100	1400					
236	Roberts, Percival, Jr.	7593	Steel.	11700	580'	58'	32'	35	9'		12'	3	Arch	Side	1913	4100	3200	4400						

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.



GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"										
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6					
STEAMERS																									
23	Roberts, W. T. ....	6359	Steel.	9500	504'	54'	30'	30	9'	12'	3	Arch	Side	1906	<sup>10</sup> 3300	<sup>10</sup> 2600	<sup>10</sup> 3600								
235	Robinson, C. S. ....	6829	Steel.	10000	525'	55'	31'	31	9'	12'	3	Arch	Side	1906	<sup>9</sup> 3300	<sup>12</sup> 3300	<sup>10</sup> 3400								
118	Rock Ferry (Can.)	1398	Wood.	2000	235'3"	37' 2"	18' 7"	6	8'	24'	1			1882											
116	Rochester . . . . .	4571	Steel.		382'6"	50'	30'							1907											
236	Rockefeller, Frank ...	2759	Steel.	5200	366'	45'	26'	10	8'	24'	3	Arch		1896	<sup>3</sup> 1800	<sup>4</sup> 1700	<sup>3</sup> 1700								
236	Rogers, Henry H. ....	7053	Steel.	11500	580'	58'	32'	36	9'	12'	3	Arch	Side	1906	<sup>12</sup> 4000	<sup>12</sup> 3400	<sup>12</sup> 4100								
123	Rogers, Wm. A. ....	6524	Steel.	10000	525'	55'	31'	32	9'	12'	3	Arch	Side	1905	<sup>10</sup> 3500	<sup>12</sup> 3000	<sup>10</sup> 3500								
239	Rolph, John (Can.) ...	211	Wood.	500	136'6"	37' 8"	10' 3"							1883											
206	Roumania . . . . .	1837	Wood.	2600	273'	39' 5"	22' 6"	7	10'	24'	1			1887											
139	Royalite (Can.) . . . . .		Steel.	Oil	250'	43'	18'							1915											
104	Rudolph, Wm. . . . .	267	Wood.	500	145'	23' 6"	9' 3"							1880											
119	Rugee, John . . . . .	1216	Wood.	1700	216'	35'	20'	5	10'x22'	24'	1			1888											
214	Runnells, H. E. . . . .	889	Wood.	1200	182'	35'	13'	4	8' 6"x17' 6"		1			1893											

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
<b>Barges</b>																				
20	Redington, Nellie . . . . .	816	Wood.	1400	205'9"	33' 8"	13' 9"						1872							
121	Redfern, C. E. . . . .	680	Wood.	1300	181'	35'	13' 1"	6	8'x14'	24'	1		1890							
41	Reed, Isabella (Can.) . . . .	480	Wood.	1000	186'	31' 5"	11'						1881							
15	Rene, J. G. (Can.) . . . .	870	Wood.	1700	205'4"	36' 3"	15' 2"	7	8'	24'			1891							
249	Richland Daisy . . . . .	1046	Wood.	2100	211'	35'	16' 6"	6	10'x22'	24'	1		1893							
41	Rickarton (Can.) . . . .	1105	Wood.	2200	220'	36' 2"	22'	7	7'	24'	1		1890							
236	Roebing, John A. . . . .	4692	Steel.	7900	436'	50'	28' 6"	15	8'	24'	4		1898	<sup>4</sup> 2300	<sup>4</sup> 1900	<sup>4</sup> 1900	<sup>3</sup> 1800			
<b>Steamers</b>																				
179	St. Louis . . . . .	985	Wood.	1200	193'	31' 9"	11' 7"						1864							
295	Sachem . . . . .	739	Wood.	Sand	187'	34'	14' 8"	1	8'x14'	24'	1		1889							
77	Sacramento . . . . .	2380	Wood.	3500	308'	43'	22' 6"	8	8'	24'	1		1895							
41	Sarnian (Can.) . . . . .	2656	Steel.	4700	324'	42'	26' 6"	9	8'	24'	3		1895	<sup>3</sup> 1700	<sup>3</sup> 1300	<sup>3</sup> 1700				

**GENERAL DIMENSIONS AND STATISTICS—Continued**

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
<b>STEAMERS</b>																				
139	Sarnolite (Can.) . . . . .		Steel.	Oil	250'	43'	18'							1916						
171	Sarnor (Can.) . . . . .1319		Wood.	1900	219'	36'	17'	5	1-8'x20" Bal.-10'x20"	24'	1			1888						
235	Saturn . . . . .4426		Steel.	6800	416'	50'	28'	22	9'	12'	4	Arch	Side	1900	<sup>5</sup> 1700	<sup>6</sup> 1600	<sup>6</sup> 1500	<sup>5</sup> 2000		
123	Saunders, E. N., Jr. . . .6657		Steel.	9700	525'	55'	31'	32	9'	12'	3	Arch	Side	1906	<sup>10</sup> 3500	<sup>12</sup> 2900	<sup>10</sup> 3300			
167	Sawyer, Philetus (Can.) . . . . . 449		Wood.	650	152'	31' 6"	9' 6"	3	7'x16'		1			1884						
121	Sawyer, Wm. H. . . . . 746		Wood.	1100	201'	37'	13'	4	8'x14'	24'	1			1890						
236	Schiller, Wm. B. . . . .7521		Steel.	11500	580'	58'	32'	36	9'	12'	3	Arch	Side	1910	<sup>12</sup> 4000	<sup>12</sup> 3400	<sup>12</sup> 4100			
185	Schlesinger, Ferd . . . .2607		Wood.	3500	305'	43' 6"	27'	9	7'	24'	2			1891	1700	1800				
64	Schneider, Cletus .. 3784		Steel.	5800	360'	50'	28'	10	9'	24'	4			1892	<sup>2</sup> 1200	<sup>3</sup> 1800	<sup>3</sup> 1500	<sup>2</sup> 1300		
57	Schoolcraft (Can.) . . . .745		Wood.	1000	180'	34'	15'	4	9' 6"x18'		1			1884						
268	Schoonmaker, Col. J. M. . . . . 8603		Steel.	12200	590'	64'	33'	35	9'	12'	3	Arch	Side	1912	<sup>11</sup> 4400	<sup>12</sup> 3500	<sup>12</sup> 4300			
223	Scotsman (Can.) . . . . .265		Wood.	300	108'	23' 6"	7'							1903						

The small figure above the capacity of each compartment indicates the number of hatches in each compartment.

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES				Construction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"													
					Keel L'gth	Beam	Depth	No.	Size	Centers	Comp'ts				1	2	3	4	5	6								
<b>STEAMERS</b>																												
180	Scranton . . . . .	2015	Steel.	3000	260'	39'	24' 6"							1888														
41	Seguin (Can.) . . . . .	1141	Steel.	1200	207'	34' 2"	13'	5	9'x11'	24'	2			1890	650	515												
235	Sellwood, Joseph . . . . .	6741	Steel.	10000	525'	55'	31'	31	9'	12'	3	Arch	Side	1906	<sup>9</sup> 3300	<sup>12</sup> 3300	<sup>10</sup> 3400											
248	Senator . . . . .	4048	Steel.	6000	410'	45' 6"	28'	13	8'	24'	4	Arch		1896	<sup>3</sup> 1500	<sup>3</sup> 1400	<sup>3</sup> 1400	<sup>4</sup> 1700										
118	Senator Derbyshire (Can.) . . . . .	1246	Wood.	2200	220'	40'	18'	6	7'	24'	1			1897														
58	Seymour, R. A., Jr. . . . .	131	Wood.	275	110'	23'	8'							1882														
146	Shaughnessy, Sir Thomas . . . . .	6276	Steel.	8500	480'	52'	30'	28	9'	12'	3	Arch		1906	<sup>10</sup> 3300	<sup>10</sup> 2000	<sup>8</sup> 3200											
236	Shaw, Howard L. . . . .	4901	Steel.	7400	428'	51' 6"	28'	13	8'	24'	4			1900	<sup>3</sup> 2000	<sup>3</sup> 1500	<sup>3</sup> 1500	<sup>4</sup> 2400										
123	Shaw, Quincy A. . . . .	6336	Steel.	9500	504'	54'	30'	30	9'	12'	4	Arch	Side	1911	<sup>7</sup> 2700	<sup>8</sup> 2000	<sup>8</sup> 2000	<sup>7</sup> 2800										
63	Sheadle, J. H. . . . .	6924	Steel.	10200	530'	56'	31'	31	9'	12'	3	Arch	Side	1906	<sup>10</sup> 3600	<sup>10</sup> 2800	<sup>11</sup> 3600											
77	Shenandoah . . . . .	2251	Wood.	3500	308'	43'	22' 6"	8	8'	24'	1			1894														

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'n'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"						
					Keel Length	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6	
<b>Steamers</b>																					
268	Shenango . . . . .	8047	Steel.	11500	585'	58'	32'	35	9'	12'	3	Arch	Side	1909	4300 <sup>12</sup>	3100 <sup>12</sup>	4100 <sup>11</sup>				
235	Sherwin, John . . . . .	6979	Steel.	9600	514'	54'	31'	16	12'	24'	4	Arch		1906	2600 <sup>4</sup>	2200 <sup>4</sup>	2200 <sup>4</sup>	2600 <sup>4</sup>			
236	Shiras, McGillivray . . . . .	4803	Steel.	6800	420'	50'	28'	12	8'	24'	4	Arch	Side	1904	1900 <sup>3</sup>	1500 <sup>3</sup>	1500 <sup>3</sup>	1900 <sup>3</sup>			
180	Shores, E. A., Jr. . . . .	520	Wood.	750	176'	35'	11' 6"							1892							
288	Shrigley, J. H. (Can.) . . . . .	534	Wood.	700	171'6"	31'	13'	3	11'x12'	24'	1			1881							
301	Sicken, M. . . . .	212	Wood.	350	128'10"	26'	10'	3	7' 6"x12'		1			1884							
236	Siemans, Sir Wm. . . . .	4344	Steel.	6000	412'	48'	28'	12	8'	24'	4			1896	1700 <sup>3</sup>	1300 <sup>3</sup>	1300 <sup>3</sup>	1700 <sup>3</sup>			
290	Sierra . . . . .	4846	Steel.	7500	438'	52'	28'	13	12'	24'	3	Arch	Side	1906	2700 <sup>5</sup>	2200 <sup>4</sup>	2600 <sup>4</sup>				
195	Simla (Can.) . . . . .	1196	Wood.	1650	225'6"	34' 8"	15'	6	{ Upper Deck 11'x19' Main Deck 8'x14'	24'	1			1903							
290	Sinaloa . . . . .	4539	Steel.	6800	416'	50'	28'	23	8'	12'	4	Arch		1903	1900 <sup>5</sup>	1500 <sup>6</sup>	1500 <sup>6</sup>	1900 <sup>6</sup>			
235	Sirius . . . . .	4470	Steel.	6900	416'	50'	28'	12	8'	24'	4			1903	1750 <sup>3</sup>	1600 <sup>3</sup>	1600 <sup>3</sup>	1950 <sup>3</sup>			
123	Slick, Edward E. . . . .	6971	Steel.	10200	530'	56'	31'	32	9'	12'	3	Arch	Side	1908	3990 <sup>11</sup>	2600 <sup>11</sup>	3700 <sup>10</sup>				
114	Smith, B. Lyman . . . . .	4271	Steel.	6300	380'	50'	28'	11	12'	24'	4	Arch		1903	1800 <sup>3</sup>	1500 <sup>3</sup>	1600 <sup>3</sup>	1400 <sup>2</sup>			
2	Smith, Home (Can.) . . . . .		Steel.	5500	346'	48'	28'	10	8'	24'	4			1901	1650 <sup>3</sup>	1100 <sup>2</sup>	1100 <sup>2</sup>	1650 <sup>3</sup>			
114	Smith, Hurlburt W. . . . .	4662	Steel.	6800	414'	50'	28'	12	12'	24'	4	Arch		1903	1900 <sup>3</sup>	1500 <sup>3</sup>	1500 <sup>3</sup>	1900 <sup>3</sup>			
114	Smith, Lyman C. . . . .	6200	Steel.	10000	525'	55'	31'	31	9'	12'	3	Arch	Side	1905	3500 <sup>10</sup>	3000 <sup>11</sup>	3500 <sup>10</sup>				

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6
STEAMERS																				
114	Smith, Monroe C. ....	4281	Steel.	6300	380'	50'	28'	11	12'	24'	4	Arch	1903	<sup>3</sup> 1800	<sup>3</sup> 1500	<sup>3</sup> 1600	<sup>2</sup> 1400			
114	Smith, Wilbert L. ....	4319	Steel.	6300	380'	50'	28'	11	12'	24'	4	Arch	1903	<sup>3</sup> 1800	<sup>3</sup> 1500	<sup>3</sup> 1600	<sup>2</sup> 1400			
268	Snyder, Wm. P. ....	6939	Steel.	10200	530'	56'	31'	31	9'	12'	3	Arch	Side	1906	<sup>10</sup> 3700	<sup>11</sup> 2800	<sup>10</sup> 3700			
268	Snyder, W. P., Jr. ....	8603	Steel.	12200	590'	64'	33'	35	9'	12'	3	Arch	Side	1912	<sup>11</sup> 4400	<sup>12</sup> 3500	<sup>12</sup> 4300			
290	Sonoma . . . . .	4539	Steel.	6800	416'	50'	28'	23	8'	12'	4	Arch		1903	<sup>5</sup> 1900	<sup>6</sup> 1500	<sup>6</sup> 1500	<sup>6</sup> 1900		
290	Sonora . . . . .	3914	Steel.	5100	346'	48'	28'	10	8'	24'	5			1902	<sup>2</sup> 1100	<sup>2</sup> 900	<sup>2</sup> 1000	<sup>2</sup> 1000	<sup>2</sup> 1100	
245	Spokane . . . . .	2356	Steel	3400	310'	38'	24'							1886						
146	Squire, F. B. ....	4582	Steel.	6800	410'	50'	28'	12	8'	24'	4			1903	<sup>3</sup> 1900	<sup>3</sup> 1500	<sup>3</sup> 1500	<sup>3</sup> 1900		
123	Stackhouse, Powell ...	6171	Steel.	9500	504'	54'	30'	30	9'	12'	6	Arch	Side	1905	<sup>5</sup> 1800	<sup>5</sup> 1700	<sup>5</sup> 1300	<sup>5</sup> 1300	<sup>5</sup> 1500	<sup>5</sup> 1900
6	Stadacona . . . . .	6014	Steel.	9000	480'	56'	30'	28	9'	12'	6	Arch	Side	1909	<sup>4</sup> 1500	<sup>5</sup> 1500	<sup>5</sup> 1500	<sup>5</sup> 1500	<sup>5</sup> 1500	<sup>4</sup> 1500
227	Stafford, W. R. ....	686	Wood.	900	184'10"	34' 3"	12' 2"	4	8'x15'	24'	1			1886						
136	Stanton, John ....	6129	Steel.	9500	504'	54'	30'	30	9'	12'	3	Arch	Side	1905	<sup>10</sup> 3300	<sup>10</sup> 2500	<sup>10</sup> 3700			
75	Starke, C. H. ....	317	Wood.	500	149'6"	30'	9' 7"	3	9'x10'		1			1881						
281	Steinbrenner, Henry ..	4719	Steel.	6800	420'	50'	28'	13	9'	24'	4			1901	<sup>3</sup> 1900	<sup>3</sup> 1300	<sup>3</sup> 1300	<sup>4</sup> 2300		

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compt's	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"																																			
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6																														
<b>STEAMERS</b>																																																		
186	Steelton (Can.)	1750	Steel.	2800	250'	42' 6"	18' 6"	6	12'x26'	24'	3	Arch		1914	<sup>2</sup> 1000	<sup>2</sup> 800	<sup>2</sup> 1000																																	
236	Stephenson, Geo.	4563	Steel.	5800	408'	48'	28'	12	8'	24'	4			1896	<sup>3</sup> 1600	<sup>3</sup> 1300	<sup>3</sup> 1300	<sup>3</sup> 1600																																
282	Stephenson, I. Wat-son	639	Wood.	900	172'	35'	11' 6"							1895																																				
260	Stephenson, S. M.	546	Wood.	750	166'	33'	12'	4	8'x9'					1880																																				
5	Stevens, Frank B. (Can.)	516	Wood.	625	146'	29'	11'							1867																																				
248	Stifel, Wm. F.	4871	Steel.	7200	420'	52'	28'	12	12'	24'	3	Arch		1908	<sup>3</sup> 2000	<sup>5</sup> 2700	<sup>4</sup> 2500																																	
235	Stone, Amasa	6282	Steel.	10000	525'	55'	31'	31	9'	12'	3	Arch	Side	1905	<sup>9</sup> 3300	<sup>12</sup> 3300	<sup>10</sup> 3400																																	
44	Stuart, W. (Can.)	1707	Wood.	2300	251'6"	38' 3"	21' 3"	6	8'	24'	1			1883																																				
136	Sullivan, J. J.	7077	Steel.	10200	532'	56'	31'	32	9'	12'	3	Arch	Side	1907	<sup>10</sup> 3700	<sup>12</sup> 2800	<sup>10</sup> 3700																																	
290	Sultana	3914	Steel.	5100	346'	48'	28'	10	8'	24'	5			1902	<sup>2</sup> 1100	<sup>2</sup> 900	<sup>2</sup> 1000	<sup>2</sup> 1000	<sup>2</sup> 1100																															
236	Superior City	4795	Steel.	6900	430'	50'	28' 6"	13	8'	24'	6			1898	<sup>3</sup> 1800	<sup>2</sup> 1000	<sup>2</sup> 900	<sup>2</sup> 900	<sup>2</sup> 1000	<sup>2</sup> 1300																														
116	Superior	4544	Steel.	5000	382'	50'	30'							1905																																				
114	Sweden	4702	Steel.	6800	414'	50'	28'	12	12'	24'	4	Arch		1902	<sup>3</sup> 1900	<sup>3</sup> 1500	<sup>3</sup> 1500	<sup>3</sup> 1900																																
<b>Barges</b>																																																		
225	St. Louis (Can.)	334	Wood.	500	127'7"	26' 2"	11' 9"							1877																																				
235	Sagamore	3251	Steel.	5500	366'	44'	26'	12	8'	24'	3			1898	<sup>4</sup> 2200	<sup>4</sup> 1800	<sup>4</sup> 1850																																	

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compartments	Construction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"																							
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6																		
<b>BARGES</b>																																						
229	Sands, Isabella (Can.) . . . . .	230	Wood.		134'	29'	10' 8"							1874																								
151	Scotia . . . . .	903	Wood.	1500	210'9"	34' 6"	13' 4"	7	1-6'6" x 11' 2,3,4,5,6-6'6" x 16'6" 7-7' x 15'4"		1			1873																								
195	Selkirk (Can.) . . . . .	719	Wood.	1200	183'	34' 5"	14' 5"							1894																								
119	Sherman, W. A. . . . .	519	Wood.	900	163'	33'	12'							1882																								
258	Simpson, Lucia A. . . . .	227	Wood.	425	127'	28'	8' 7"							1875																								
56	Skeele, E. E. . . . .	199	Wood.		122'	26'	9'							1856																								
	Sligo (Can.) . . . . .	284	Wood.	500	137'	23'	11' 8"	4	{ 1-14'6" x 15'9" 3-13'8" x 15'9" Bal.-15'3" x 15'9"					1874																								
236	Smeaton, John . . . . .	5049	Steel.	7900	446'	50'	29' 6"	15	8'		24'	4		1899	4 2300	4 1900	4 1900	3 1800																				
262	Stafford . . . . .	199	Wood.	375	112'	25' 6"	9' 6"							1868																								
15	Stephenson, Isaac . . . . .	461	Wood.	850	163'3"	32' 1"	11' 1"							1879																								
<b>Steamers</b>																																						
235	Taurus . . . . .	4470	Steel.	6900	414'	50'	28'	12	8'		24'	4		1903	3 1750	3 1600	3 1600	3 1950																				
2	Taylor, J. F. (Can.) . . . . .	3428	Steel.	5600	346'	48'	28'	10	8'		24'	3		1901	3 1900	4 1800	3 1900																					
235	Taylor, Moses . . . . .	4772	Steel.	6800	416'	50'	28'	12	8'		24'	4		1902	3 1900	3 1500	3 1500	3 1900																				
244	Thom, John S. (Can.) . . . . .	1440	Wood.		240'	42'	25'							1890																								
17	Thompson, Alexis W. . . . .	6436	Steel.	9500	504'	55'	30'	30	9'		12'	4	Arch	Side	1908	8 2700	7 1900	7 2200	8 2700																			



GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
STEAMERS																				
123	Thompson, Carmi A...7038	Steel.	10500	525'	58'	31'	32	9'		12'	3	Arch	Side	1917	10 3600	12 3200	10 3700			
114	Thompson, Smith .....4786	Steel.	7600	438'	52'	28'	13	12'		24'	3	Arch		1907	5 2800	4 2100	4 2700			
185	Tioga . . . . .2320	Iron..	3200	285'	39'	17'	8	8'						1885						
221	Toiler (Can.) .....1783	Steel.	2800	250'	42' 6"	19'				24'	3	Arch		1911						
214	Toltec . . . . .767	Wood.	1200	191'3"	32' 6"	13' 8"	4	8'x14'			1			1889						
136	Tomlinson, G. A. ....6361	Steel.	9500	504'	54'	30'	30	9'		12'	4	Arch	Side	1909	8 2700	7 1900	7 2200	8 2700		
123	Townsend, E. Y. ....7438	Steel.	11500	580'	58'	32'	18	12'		24'	3	Arch	Side	1906	6 4300	6 2600	6 4300			
236	Trimble, Richard ....7607	Steel.	12000	580'	58'	32'	35	9'		12'	3	Arch	Side	1913	13 4100	12 3200	10 4400			
116	Troy . . . . .3655	Steel.		398'	45' 6"	28'								1898						
30	Truesdale, Wm. H. ....5057	Steel.	7400	432'	52'	28'	24	9'		12'	4	Arch		1908	6 1900	6 1800	6 1800	6 1900		
123	Turner, J. J. ....6832	Steel.	10200	532'	56'	31'	32	9'		12'	3	Arch	Side	1906	10 3700	12 2800	10 3700			
BARGES																				
125	Taber, Horace (Can.) .262	Wood.	500	138'6"	26' 6"	9' 6"								1867						



GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'n'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"							
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6		
<b>Steamers</b>																						
123	Uhrig, Edward A. ....6611	Steel.	10200	532'	56'	31'	32	9'		12'	3	Arch	Side	1907	<sup>10</sup> 3700	<sup>12</sup> 2800	<sup>10</sup> 3700					
116	Underwood, F. D. ....3314	Steel.		319'	44'	27' 3"								1896								
29	United Lumberman (Can.) . . . . .	399	Wood.	500	139'	31' 6"	11' 7"							1884								
156	Upson, Andrew S. ....4442	Steel.	6300	380'	52'	29'	19	9'		12'	3	Arch		1909	<sup>6</sup> 2000	<sup>6</sup> 1800	<sup>7</sup> 2500					
308	Upson, J. E. ....6309	Steel.	9500	504'	54'	30'	30	9'		12'	3	Arch	Side	1908	<sup>10</sup> 3300	<sup>10</sup> 2500	<sup>10</sup> 3700					
235	Uranus . . . . .	4426	Steel.	6800	416'	50'	22	9'		12'	4	Arch	Side	1900	<sup>5</sup> 1700	<sup>6</sup> 1600	<sup>6</sup> 1500	<sup>5</sup> 2000				
116	Utica . . . . .	3533	Steel.	4000	325'	44'	30'							1904								
215	Utleigh, E. H. ....6287	Steel.	9500	504'	54'	30'	30	9'		12'	4	Arch	Side	1910	<sup>7</sup> 2700	<sup>8</sup> 2000	<sup>8</sup> 2000	<sup>7</sup> 2800				
<b>Barges</b>																						
195	Ungava (Can.) . . . . .	1226	Steel.	2100	200'	41'	6	8'x22'						1906								
188	Uranus . . . . .	524	Wood.	1000	169'	30'	5	8'x16'		24'	1			1873								
<b>Steamers</b>																						
303	Van Allen, D. R. (Can.) . . . . .	318	Wood.	450	136'	26'	10'							1874								
4	Valcartier (Can.) ....3755	Steel.	5600	354'	48'	28'	10	8'		24'	4			1903	<sup>3</sup> 1700	<sup>2</sup> 1100	<sup>2</sup> 1100	<sup>3</sup> 1700				

**GENERAL DIMENSIONS AND STATISTICS—Continued**

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compartments	Construction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"					
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6
<b>STEAMERS</b>																				
212	Van Vleck, Geo. H. ...	1020	Wood.	1600	238'	35'	12'10"	7	11'x16'	24'	1			1875						
235	Vega . . . . .	4382	Steel.	7000	420'	50'	28'	23	9'	12'	3	Arch	Side	1906	2400 <sup>8</sup>	2300 <sup>8</sup>	2300 <sup>7</sup>			
202	Venezuela . . . . .	2125	Wood.	2800	263'	42' 6"	23'	7	7'	24'	1			1897						
235	Venus . . . . .	3719	Steel.	5600	346'	48'	28'	10	12'	24'	3	Arch		1901	1900 <sup>3</sup>	1800 <sup>4</sup>	1900 <sup>3</sup>			
235	Verona . . . . .	6186	Steel.	8500	480'	52'	30'	28	9'	12'	4	Arch	Side	1907	2400 <sup>7</sup>	1800 <sup>7</sup>	1700 <sup>7</sup>	2600 <sup>7</sup>		
276	Veronica . . . . .	1093	Wood.	1400	202'	34' 6"	19'							1886						
235	Victory . . . . .	4527	Steel.	7000	450'	48'	27'	14	8'	24'	5	Arch		1895	1100 <sup>2</sup>	1300 <sup>3</sup>	1300 <sup>3</sup>	1700 <sup>3</sup>	1600 <sup>3</sup>	
186	Viking . . . . .	1117	Steel.	1800	217'	37'	15'	5	8'x16'	24'	1			1889						
14	Vulcan . . . . .	1759	Steel.	2900	260'	38'	23'	7	No. 1-4' Bal. 8'	24'	3			1889	900 <sup>2</sup>	1200 <sup>3</sup>	800 <sup>2</sup>			
<b>Barges</b>																				
195	Valencia (Can.) . . . . .	543	Wood.	1000	178'	30' 8"	13' 2"							1888						
	Vinland . . . . .	965	Wood.	1500	216'	36'	13' 4"							1896						
<b>Steamers</b>																				
4	Wade, J. H. (Can.) . . . . .	2300	Steel.	3000	266'	38'	23'	7	7'6"	24'	1	Arch		1890						
299	Waffle, T. J. (Can.) . . . . .	202	Wood.		105'	22' 5"	8'							1914						

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'ts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"									
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6				
STEAMERS																								
235	Wallace, James C. ...	6684	Steel.	10300	532'	56'	31'	32	9'	12'	3	Arch	Side	1905	<sup>10</sup> 3500	<sup>12</sup> 3400	<sup>10</sup> 3400							
136	Walsh, James P. ....	5326	Steel.	8500	480'	52'	30'	28	9'	12'	4	Arch	Side	1905	<sup>5</sup> 2000	<sup>8</sup> 2100	<sup>8</sup> 2100	<sup>7</sup> 2300						
17	Walters, Thomas ....	7518	Steel.	11500	580'	58'	32'	36	9'	12'	3	Arch	Side	1911	<sup>12</sup> 4000	<sup>12</sup> 3400	<sup>12</sup> 4100							
114	Warner, Chas. M. ....	3812	Steel.	5700	370'	48'	28'	11	12'	24'	4	Arch		1902	<sup>3</sup> 1700	<sup>2</sup> 800	<sup>3</sup> 1500	<sup>3</sup> 1700						
188	Warren, Homer (Can.)	447	Wood.	500	176'6"	29' 6"	11' 8"	4	7'x9'		1			1863										
290	Watson, C. W. ....	4306	Steel.	6300	380'	50'	28'	11	12'	24'	4	Arch	Side	1902	<sup>3</sup> 1800	<sup>3</sup> 1650	<sup>3</sup> 1500	<sup>2</sup> 1350						
236	Watt, James ....	4090	Steel.	5800	405'	48'	28'	12	8'	24'	4			1896	<sup>3</sup> 1600	<sup>3</sup> 1300	<sup>3</sup> 1300	<sup>3</sup> 1600						
170	Wente, R. C. ....	335	Wood.	450	141'	30'	10' 6"							1888										
64	Wesee . . . . .	2283	Wood.	3200	269'	42' 3"	24'	8	8'	24'				1901										
195	Westerian (Can.) ....	988	W.&S.	1100	210'	32'	15' 2"							1871										
140	Wethersfield (Can.) ...	1875	Steel.	2800	248'7"	42'	26'	5	9'4"x21'		2			1903	<sup>1</sup> 1400	<sup>2</sup> 1400								
195	Westmount (Can.) ...	7392	Steel.	10000	529'	58'	31'	16	10'	24'	6	Arch	Side	1917	<sup>1</sup> 2200	<sup>2</sup> 1800	<sup>2</sup> 1000	<sup>2</sup> 1000	<sup>3</sup> 1800	<sup>3</sup> 2200				
63	White, Peter ....	5184	Steel.	9500	504'	54'	30'	30	9'	12'	3	Arch	Side	1905	<sup>10</sup> 3500	<sup>10</sup> 2500	<sup>10</sup> 3500							
28	White, W. F. ....	7180	Steel.	10000	530'	60'	31'	30	9'	12'	3	Arch	Side	1915	<sup>8</sup> 3400	<sup>12</sup> 3600	<sup>10</sup> 4000							
23	Wickwire, Theo. H. ...	5141	Steel.	8300	444'	56'	28'	13	12'	24'	3	Arch	Side	1909	<sup>4</sup> 2800	<sup>5</sup> 2700	<sup>4</sup> 2800							

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'nts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"											
					Keel L'gth	Beam	Depth	No.	Size	Centers					1	2	3	4	5	6						
	STEAMERS																									
23	Wickwire, Theo. H., Jr. . . . .	6077	Steel.	9700	504'	56'	30'	30	9'	12'	4	Arch	Side	1910	7 2700	8 2200	7 2000	8 2800								
236	Widener, Peter A. B. . . . .	7053	Steel.	11500	580'	58'	32'	36	9'	12'	3	Arch	Side	1906	12 4000	12 3400	12 4100									
17	Widlar, Francis . . . . .	4682	Steel.	7000	416'	50'	28'	12	8'	24'	4			1904	3 2000	3 1500	3 1400	3 2100								
114	Wilkinson, H. S. . . . .	8338	Steel.	12000	580'	60'	32'	35	9'	12'	4	Arch	Side	1916	8 3100	9 2700	9 2700	9 3500								
168	Wilkesbarre . . . . .	4153	Steel.	5200	381'7"	50' 5"	28'							1900												
236	Williams, Homer D. . . . .	7742	Steel.	12000	580'	60'	32'	35	9'	12'	3	Arch	Side	1917	12 4500	12 3300	11 4200									
268	Wilpen . . . . .	7612	Steel.	11000	554'	58'	32'	33	9'	12'	4	Arch	Side	1907	8 3000	8 2300	9 2600	8 3100								
159	Wilson, Mathew . . . . .	322	Wood.	450	141'4"	27' 9"	10' 8"							1888												
308	Wilson, Capt. Thomas . . . . .	4719	Steel.	7000	416'	50'	28'	13	8'	24'	4			1900	3 1900	3 1300	3 1400	4 2400								
195	Windsor (Can.) . . . . .	1962	Wood	2500	242'	41'	20'	8						1892												
309	Winnipeg . . . . .	1108	Wood.	1500	252'5"	35'	15' 3"	7						1878												
116	Wissahicken . . . . .	4062	Steel.	4700	350'	46'	30'							1907												
134	Wolf, Wm. H. (Old) . . . . .	2265	Wood.	3000	285'	42'	21'	7	8'	24'	2			1887	2 850	5 2150										
284	Wolf, Wm. H. . . . .	6281	Steel.	9500	504'	54'	30'	30	9'	12'	4	Arch	Side	1908	8 2700	7 1900	7 2200	8 2700								

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Compt's	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"						
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6	
STEAMERS																					
235	Wolvin, Augustus B. .	6585	Steel.	10500	540'	56'	32'	33	9'	12'	1	Arch		1904							
123	Wood, Joseph . . . . .	6360	Steel.	9500	504'	54'	30'	30	9'	12'	4	Arch	Side	1910	2500	1800	2200	3000			
257	Wotan . . . . .	886	Wood.	1000	191'6"	36' 6"	13' 6"	4	7' 6"x13' 4"	24'	1			1893							
314	Wyandotte . . . . .	2450	Steel.	2900	346'	45'	24'	18	9'	12'	3	Arch	Side	1908	1400	1300	500				
41	Wyoming . . . . .	1488	Wood.	2200	241'	40'	14' 6"							1887							
Barges																					
15	Warmington, G. H. (Can.) . . . . .	559	Wood.	950	170'	31' 6"	12' 6"							1872							
41	Wayne (Can.) . . . . .	668	Wood.	1300	187'	34' 4"	13'							1882							
49	Weaver, Jennie . . . . .	88	Wood.	150	97'6"	22' 6"	7'							1882							
295	Whale . . . . .	1144	Wood.		264'	53'	14'							1892							
286	White & Friant (Can.) . . . . .	278	Wood.	700	152'	28' 7"	11' 3"	4	9'x7'		1			1881							
195	Winnipeg (Can.) . . . . .	734	Wood.	1300	179'5"	34' 6"	14' 5"							1893							
172	Wisconsin . . . . .	532	Wood.		181'	30'	20' 6"							1882							
270	Whitbeck, Henry . . . . .	498	Wood.	1000	167'6"	33' 1"	11'							1880							
15	Woodlands . . . . .	618	Wood.	1100	186'	32' 6"	12' 4"	5	8'x13' 5"		1			1881							

The small figure above the capacity of each compartment indicates the number of hatches in each compartment

GENERAL DIMENSIONS AND STATISTICS—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Capacity	DIMENSIONS			HATCHES			Comp'nts	Con-struction	Tanks	Year Built	CAPACITY OF COMPARTMENTS "GROSS"												
					Keel L'gth	Beam	Depth	No.	Size	Cen-ters					1	2	3	4	5	6							
BARGES																											
20	Woolson, Mary .....	708	Wood.	1300	179'1"	34' 8"	13' 2"	5	10'x22'			1			1888												
266	Wright, A. W. ....	530	Wood.	1000	169'7"	33' 3"	10' 8"	4	9'x11'			1			1880												
Steamers																											
23	Yates, Harry .....	6077	Steel.	9700	504'	56'	30'	30	9'		12'	4	Arch	Side	1910	<sup>7</sup> 2700	<sup>8</sup> 2200	<sup>7</sup> 2000	<sup>8</sup> 2800								
186	Yorkton (Can.) .....	1771	Steel.	2800	250'	42' 6"	18' 6"	6	12'x26'		24'	3			1911	<sup>2</sup> 1000	<sup>2</sup> 800	<sup>2</sup> 1000									
248	Yosemite . ....	3879	Steel.	5600	356'	50'	28'	10	8'		24'	3			1901	<sup>3</sup> 1900	<sup>4</sup> 1800	<sup>3</sup> 1900									
BARGES																											
58	York State .....	277	Wood.	500	134'	28' 4"	11'								1869												
STEAMERS																											
236	Zeising, August .....		Steel.	12000	580'	60'	32'	35	9'		12'	3	Arch	Side	1917	<sup>12</sup> 4500	<sup>12</sup> 3300	<sup>11</sup> 4200									
236	Zenith City .....	3850	Steel.	5800	387'	48'	28'	11	8'		24'	4			1895	<sup>2</sup> 1400	<sup>3</sup> 1300	<sup>3</sup> 1300	<sup>3</sup> 1900								
20	Zillah . ....	748	Wood.	1100	201'8"	37'	13'	4	12'x24'		24'	1			1890												
BARGES																											
119	Zapotec . ....	811	Wood.	1500	204'7"	34' 7"	14' 6"								1890												



## CAR FERRIES OF THE GREAT LAKES

Fleet No.	STEAMERS	Gross Tonnage	Built of	DIMENSIONS			Year Built	By Whom Built	Where Built
				Keel Length	Beam	Depth			
233	Str. Ann Arbor No. 3 .....	1677	Steel.	259'	52'	18' 6"	1898	Globe Iron Works.	Cleveland, Ohio
233	Str. Ann Arbor No. 4 .....	1884	Steel.	259'	52'	19'	1906	American Ship Building Co.	Cleveland, Ohio
233	Str. Ann Arbor No. 5 .....	2884	Steel.	378'	56'	21'	1910	Toledo Ship Building Co.	Toledo, Ohio.
233	Str. Ann Arbor No. 6 .....	2757	Steel.	338'	56'	20' 6"	1917	Great Lakes Eng. Works.	Ecorse, Mich.
230	Str. Ashtabula .....	2670	Steel.	338'	56'	20' 6"	1906	Great Lakes Eng. Works.	St. Clair, Mich.
27	Str. Chief Wawatam .....	2990	Steel.	332'	62'	25'	1911	Toledo Ship Building Co.	Toledo, Ohio.
298	Str. Detroit .....	2089	Steel.	284'	64'	19' 6"	1904	Great Lakes Eng. Works.	Ecorse, Mich.
233	Str. Grand Haven .....	2320	Steel.	306'	54'	20'	1903	Craig Ship Building Co.	Toledo, Ohio.
112	Str. Great Western (Can.) .....	1080	Iron..	220'	40' 2"	13'	1866	Grand Trunk Ry. Co.	Windsor, Ont.
112	Str. Huron (Can.) .....	1052	Iron..	238' 5"	53' 9"	12' 8"	1875	Smith.	Pt. Edward, Ont.
162	Str. International (Can.) .....	851	Comp.	210'	40'	12' 8"	1872		Fort Erie, Ont.
112	Str. Lansdowne (Can.) .....	1571	Iron..	294'	41' 3"	13'	1884	Detroit Dry Dock Co.	Detroit, Mich.
45	Str. Lyon, Charles (Can.) .....	1600	Steel.	248'	40'	22'	1907	Polson Iron Works.	Toronto, Ont.
293	Str. Maitland No. 1 .....	2757	Steel.	338'	56'	20' 6"	1916		
173	Str. Marquette and Bessemer No. 1..	1732	Steel.	241'	43'	21' 6"	1904	Buffalo Ship Building Co.	Buffalo, N. Y.
173	Str. Marquette and Bessemer No. 2 ..	2583	Steel.	338'	56'	19' 6"	1910	American Ship Building Co.	Cleveland, Ohio
47	Str. Michigan .....	1615	Steel.	297'	41'	15'	1891	F. W. Wheeler & Co.	W. Bay City, Mich.
287	Str. Michigan Central .....	1522	Iron..	263'	45' 6"	15' 6"	1884	Detroit Dry Dock Co.	Wyandotte, Mich.
233	Str. Milwaukee .....	2933	Steel.	338'	56'	19' 6"	1903	American Ship Building Co.	Cleveland, Ohio
47	Str. Ontario (Can.) .....	1615	Steel.	297'	41' 3"	14' 9"	1891	Polson Iron Works.	Toronto, Ont.
218	Str. Ontario No. 1 (Can.) .....	5146	Steel.	306'	54'	20' 6"	1907	Canadian S. B. Co.	Toronto, Ont.
218	Str. Ontario No. 2 (Can.) .....	5568	Steel.	307' 6"	54'	20' 6"	1915	Polson Iron Works.	Toronto, Ont.
233	Str. Pere Marquette .....	2443	Steel.	338'	52'	21'	1904	Detroit Ship Building Co.	Detroit, Mich.
233	Str. Pere Marquette No. 14 .....	2531	Steel.	350'	56'	28'	1896	F. W. Wheeler & Co.	W. Bay City, Mich.
233	Str. Pere Marquette No. 17 .....	2775	Steel.	338'	56'	19' 6"	1901	American Ship Building Co.	Cleveland, Ohio
233	Str. Pere Marquette No. 18 .....	2777	Steel.	338'	56'	19' 6"	1910	American Ship Building Co.	Chicago, Ill.
233	Str. Pere Marquette No. 19 .....	2626	Steel.	338'	56'	19' 6"	1903	American Ship Building Co.	Cleveland, Ohio
233	Str. Pere Marquette No. 20 .....	2626	Steel.	338'	56'	19' 6"	1903	American Ship Building Co.	Cleveland, Ohio
298	Str. Transfer .....	1511	Steel.	265'	45' 6"	17'	1888	Cleveland Ship Building Co.	Cleveland, Ohio
298	Str. Transport .....	1594	Iron..	254'	46'	14' 9"	1880	Detroit Dry Dock Co.	Wyandotte, Mich.

## PASSENGER BOATS OF THE GREAT LAKES

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built	Where Built
92	Ada Alice (Can.)	60	Wood	66' 5"	13' 2"	17' 6"	1879	Pt. Dalhousie, Ont.
108	Alabama	2626	Steel	250'	44'	17'	1910	Manitowoc, Wis.
46	Alberta (Can.)	2828	Steel	296' 5"	38' 2"	23' 3"	1883	Whitunch, Scotland.
41	Aletha (Can.)	171	Wood	107' 4"	19' 7"	5' 5"	1901	Kingston, Ont.
143	Algoma (Can.)	107	Wood	104'	26' 3"	11'	1901	Toronto, Ont.
27	Algomah	486	Wood	127'	33'	11'	1881	Detroit, Mich.
25	America	937	Wood & Steel	182' 6"	27'	13'	1898	Detroit, Mich.
41	America (Can.)	521	Wood & Iron	153' 2"	33' 2"	6' 4"	1895	Kingston, Ont.
161	Americana	969	Steel	203'	45'	16'	1908	Buffalo, N. Y.
300	Areil	202	Wood	95'	29'	11'	1881	Detroit, Mich.
108	Arizona	1041	Wood	203'	40'	20' 2"	1889	Manitowoc, Wis.
261	Arrow	365	Wood & Steel	165'	28'	17' 6"	1895	Wyandotte, Mich.
46	Assiniboia (Can.)	3879	Steel	336'	43' 6"	26' 6"	1907	Govan, Scotland.
46	Athabasca (Can.)	2784	Steel	298' 8"	38' 2"	23' 3"	1883	Glasgow, Scotland.
122	Bain, Jessie (Can.)	67	Wood	70' 8"	14' 8"	5'	1888	Clayton, N. Y.
25	Barker, S. B.	176	Wood	92'	17'	14'	1882	Grand Haven, Mich.
143	Bawating (Can.)	199	Wood	104'	29'	22'	1875	Detroit, Mich.
182	Beard, James	87	Wood	73'	17'	6'	1873	Au Sable, Mich.
41	Bellville (Can.)	1223	Iron	200' 8"	28'	11'	1864	Quebec, Que.
291	Bluebell (Can.)	12	Wood	48' 5"	8' 9"	3' 6"	1888	Kingston, Ont.
50	Boeckling, G. A.	328	Steel	140'	30'	9'	1909	Ecorse, Mich.
126	Bon Ami	227	Wood	108'	22'	5' 8"	1876	Saugatuck, Mich.
41	Boucherville (Can.)	419	Wood	178' 9"	26' 3"	9' 2"	1886	Sorel, Que.
82	Britannia	791	Steel	164'	45'	17' 9"	1906	Wyandotte, Mich.
41	Brockville (Can.)	191	Wood	105'	21' 5"	5' 7"	1898	Toronto, Ont.
161	Canadiana	974	Steel	203'	45'	16'	1910	Buffalo, N. Y.
87	Caribou (Can.)	596	Wood	150'	27'	12'	1904	Goderich, Ont.

PASSENGER BOATS OF THE GREAT LAKES—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built	Where Built
108	Carolina . . . . .	1304	Iron	220'	40'	21'	1892	Philadelphia, Pa.
163	Caspian (Can.) . . . . .	957	Iron	177' 6"	43' 4"	6' 7"	1846	Kingston, Ont.
204	Cuyuga (Can.) . . . . .	2167	Steel	306'	36' 6"	15'	1906	Toronto, Ont.
108	Chicago . . . . .	747	Wood	205'	30'	19' 7"	1874	Manitowoc, Wis.
68	Chicora (Can.) . . . . .	930	Wood	221'	26'	10' 9"	1864	Liverpool, Eng.
204	Chippewa (Can.) . . . . .	1514	Wood & Iron	308' 5"	36' 3"	12' 5"	1893	Hamilton, Ont.
11	Chippewa . . . . .	453	Iron	201'	28'	12'	1884	
83	City of Alpena II . . . . .	1735	Wood & Steel	266'	38' 4"	24'	1893	Detroit, Mich.
110	City of Benton Harbor . . . . .	1286	Steel	248'	37'	15' 6"	1904	Toledo, Ohio.
65	City of Buffalo . . . . .	2940	Wood & Steel	340' 3"	43' 5"	17' 4"	1896	Wyandotte, Mich.
275	City of Chatham (Can.) . . . . .	362	Wood	125' 6"	31' 5"	9'	1888	Toronto, Ont.
182	City of Cheboygan . . . . .	247	Wood	98'	29' 9"	10'	1890	Cleveland, Ohio.
83	City of Cleveland III . . . . .	4568	Steel	402'	54'	22'	1907	Wyandotte, Mich.
83	City of Detroit II . . . . .	1919	Wood & Steel	286'	41'	25' 8"	1889	Detroit, Mich.
83	City of Detroit III . . . . .	6061	Steel	472'	55'	22'	1912	Detroit, Mich.
183	City of Dresden (Can.) . . . . .	132	Wood	93'	21'	8' 9"	1872	Windsor, Ont.
65	City of Erie . . . . .	2498	Wood & Steel	316'	44'	29'	1898	Wyandotte, Mich.
110	City of Grand Rapids . . . . .	3061	Steel	291'	48'	27'	1912	Cleveland, Ohio.
41	City of Hamilton . . . . .	1574	Wood & Steel	220'	32' 5"	14'	1871	Buffalo, N. Y.
69	City of London (Can.) . . . . .	110	Wood	84'	18'	5' 5"	1886	Toronto, Ont.
83	City of Mackinac II . . . . .	1749	Wood & Steel	266'	38'	24' 4"	1893	Detroit, Mich.
129	City of Marquette . . . . .	341	Wood	114'	25'	9'	1890	Manitowoc, Wis.
72	City of Meaford (Can.) . . . . .	328	Wood	111'	24'	8' 5"	1906	Medford, Ont.
41	City of Ottawa (Can.) . . . . .	1529	Wood & Iron	220'	32' 5"	14'	1871	Buffalo, N. Y.
60	City of So. Haven . . . . .	1719	Steel	232'	40'	16'	1903	Toledo, Ohio.
83	City of St. Ignace . . . . .	1923	Wood & Steel	272'	40'	25' 6"	1886	Detroit, Mich.
110	City of St. Joseph . . . . .	1439	Wood & Steel	254'	34'	24'	1890	Bay City, Mich.

PASSENGER BOATS OF THE GREAT LAKES—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built	Where Built
306	City of Toledo .....	1003	Wood & Steel	212'	31' 6"	22' 3"	1891	Toledo, Ohio.
174	Clark, Alfred (Can.) .....	227	Wood	110'	24'	7' 6"	1887	Saugatuck, Mich.
272	Clark Brothers (Can.) .....	92	Wood	80'	16' 2"	5' 5"	1890	Toronto, Ont.
253	Columbia . . . . .	139	Wood	109'	21' 6"	16' 3"	1893	Grand Haven, Mich.
82	Columbia . . . . .	968	Steel	216'	45'	12' 6"	1902	Wyandotte, Mich.
169	Columbia . . . . .	255	Wood	133' 6"	29'	9'	1885	Wyandotte, Mich.
108	Columbus Christopher .....	1511	Steel	348'	42'	24'	1893	W. Superior, Wis.
182	Conger, O. D. ....	199	Wood	92'	26'	11'	1882	Pt. Huron, Mich.
204	Corona (Can.) .....	1274	Steel	270' 3"	32' 5"	12' 5"	1896	Toronto, Ont.
	Dahlia . . . . .	426	Iron	129' 5"	25'	11' 6"	1874	Philadelphia, Pa.
205	Dalhousie City (Can.) .....	1256	Steel	199' 8"	37'	20' 7"	1911	Collingwood, Ont.
182	Dormer, Grace .....	65	Wood	71'	17' 6"	5' 6"	1868	Buffalo, N. Y.
157	Duchess of York (Can.) .....	490	Steel	156' 8"	25' 3"	9' 4"	1889	Montreal, Que.
83	Eastern States .....	3077	Steel	350'	45' 3"	19' 6"	1902	Wyandotte, Mich.
11	Elva . . . . .	81	Wood	71'	18'	16' 6"	1889	Chicago, Ill.
222	Empress (Can.) .....	678	Iron	185' 3"	27' 6"	16'	1873	Montreal, Que.
197	Emerald (Can.) .....	385	Wood	140'	21' 7"	6' 8"	1903	Cornwall, Ont.
300	Essex . . . . .	266	Steel	94'	36'	14' 7"	1913	Toledo, Ohio.
82	Excelsior . . . . .	229	Wood	116'	25'	13' 6"	1876	Detroit, Mich.
269	Forest City (Can.) .....	571	Steel	175'	39' 6"	9' 6"	1891	Wilmington, Del.
205	Garden City (Can.) .....	637	Steel	177' 9"	26'	10'	1892	Toronto, Ont.
82	Garland . . . . .	248	Wood	107'	29'	12'	1880	Detroit, Mich.
108	Georgia . . . . .	895	Wood	196'	34' 6"	20'	1880	Manitowoc, Wis.
246	Glen Allen (Can.) .....	276	Comp.	104'	25'	9'	1912	Kingston, Ont.

PASSENGER BOATS OF THE GREAT LAKES—Continued

Fleet No.	VESSEL,	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built	Where Built
144	Glenn . . . . .	277	Wood	108'	22'	17'	1889	So. Haven, Mich.
306	Greyhound . . . . .	1392	Steel	276'	38'	15'	1902	Detroit, Mich.
41	Hamilton (Can.) . . . . .	937	Iron	175' 2"	25' 2"	10' 8"	1895	Montreal, Que.
41	Hamonic (Can.) . . . . .	5264	Steel	341'	50'	35'	1909	Collingwood, Ont.
272	Hanlan, John (Can.) . . . . .	37	Wood	71'	16'	6'	1884	Pt. Dalhousie, Ont.
278	Hart, Eugene C. . . . .	522	Wood	152'	25'	18'	1890	Manitowoc, Wis.
26	Hayes, R. B. . . . .	164	Wood	134'	21'	7'	1876	Sandusky, Ohio.
147	Hazel . . . . .	66	Wood	87'	18'	14'	1879	Grand Haven, Mich.
73	Holland . . . . .	1148	Wood & Iron	231'	33' 6"	22'	1881	Wyandotte, Mich.
182	Hiawatha (Can.) . . . . .	163	Wood	92' 7"	20'	7' 6"	1874	Dresden, Ont.
141	Huron . . . . .	538	Wood & Iron	200'	32'	21'	1885	Cleveland, Ohio.
41	Huronic (Can.) . . . . .	3329	Steel	308'	43'	27'	1902	Collingwood, Ont.
210	Illinois . . . . .	2427	Steel	225'	40'	26'	1899	Chicago, Ill.
108	Indiana . . . . .	1979	Wood	223'	35'	24'	1890	Manitowoc, Wis.
	International (Can.) . . . . .	95	Wood	182'	30'	10'	1881	Montreal, Que.
291	Island Queen (Can.) . . . . .	23	Wood	73'	13' 9"	4' 4"	1889	Toronto, Ont.
11	Islander . . . . .	291	Wood	139'	23'	17'	1895	Benton Harbor, Mich.
116	Juniata . . . . .	4333	Steel	340'	45'	28'	1905	Cleveland, Ohio.
187	Kansas . . . . .	835	Wood	185'	33'	19'	1876	Ogdensburg, N. Y.
46	Keewatin (Can.) . . . . .	3856	Steel	336'	43' 6"	26' 6"	1907	Govan, Scotland.
41	Kingston (Can.) . . . . .	2925	Steel	288'	36' 2"	13' 3"	1901	Toronto, Ont.
12	Kirby, Frank E. . . . .	532	Iron	195'	30'	20'	1890	Wyandotte, Mich.
211	Lakeland . . . . .	2425	Steel	280'	39'	24'	1887	Cleveland, Ohio.

PASSENGER BOATS OF THE GREAT LAKES—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built	Where Built
211	Lake Port .....	1829	Wood & Iron	263'	36' 4"	27'	1880	
131	Lakeside (Can.) .....	348	Wood	121'	26'	9' 3"	1888	Windsor, Ont.
211	Lakewood . . . . .	1917	Wood & Iron	266'	38'	26'	1884	
67	Liberty . . . . .	143	Wood	97'	19'	13' 6"	1889	Ft. Howard, Wis.
200	Lotus . . . . .	219	Wood	110'	22'	16' 6"	1893	Manitowoc, Wis.
291	Luella (Can.) .....	38	Wood	66'	13' 3"	6'	1880	Toronto, Ont.
204	Macassa (Can.) .....	459	Steel	154' 4"	24'	16' 3"	1888	Glasgow, Scotland.
46	Manitoba (Can.) .....	2616	Steel	303'	38'	24' 6"	1889	Owen Sound, Ont.
87	Manitou (Can.) .....	470	Wood	137' 2"	24' 2"	9' 1"	1903	Goderich, Ont.
291	Mayflower (Can.) .....	189	Steel	140' 2"	28' 2"	6' 8"	1890	Toronto, Ont.
272	Mazeppa (Can.) .....	146	Wood	101'	20'	5' 7"	1884	Toronto, Ont.
129	McVey, Charles .....	331	Wood	132'	26'	17' 6"	1889	Saugatuck, Mich.
176	Michipicotin (Can.) .....	511	Wood	117'	24' 8"	11'	1883	Detroit, Mich.
128	Minnie M. (Can.) .....	613	Wood	140'	30'	10'	1884	Detroit, Mich.
210	Missouri . . . . .	2434	Steel	225'	40'	16'	1904	So. Chicago, Ill.
204	Modjeska (Can.) .....	678	Steel	178'	31'	12' 3"	1889	Glasgow, Scotland.
41	Montreal (Can.) .....	4282	Steel	332' 4"	43' 5"	14' 8"	1904	Sorel, Que.
25	Moore, C. W. . . . .	383	Wood	124'	24' 6"	16'	1881	Allegan, Mich.
49	Murray Bay (Can.) .....	969	Iron	251'	34' 7"	7' 9"	1887	Wilmington, Del.
41	New Island Wanderer .....	195	Wood	116'	21'	7'	1888	Buffalo, N. Y.
41	News Boy .....	199	Wood	104'	22'	6'	1889	W. Bay City, Mich.
303	Niagara (Can.) .....	396	Iron	159'	21'	10' 4"	1856	Glasgow, Scotland.

PASSENGER BOATS OF THE GREAT LAKES—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year built	Where Built
260	Niagara Frontier .....	421	Steel	121'	38'	14'	1910	Buffalo, N. Y.
41	Noronic (Can.) .....	6905	Steel	362'	52'	28' 9"	1913	Port Arthur, Ont.
59	North American .....	2317	Steel	259'	47'	18' 3"	1913	Ecorse, Mich.
163	North King (Can.) .....	873	Wood	175'	43'	10'	1868	Kingston, Ont.
79	North Land .....	4244	Steel	358'	44'	24'	1895	Cleveland, Ohio.
116	Octorora . .....	4329	Steel	340'	45'	28'	1910	Wyandotte, Mich.
184	Ongiara (Can.) .....	98	Wood	90' 5"	18' 4"	5' 4"	1885	Toronto, Ont.
54	Ossifrage (Can.) .....	303	Wood	161' 6"	27' 8"	9'	1886	W. Bay City, Mich.
306	Owana . .....	747	Wood & Steel	200'	32'	20'	1899	Wyandotte, Mich.
311	Pelee (Can.) .....	538	Steel	137'	24'	11' 3"	1914	Collingwood, Ont.
280	Pennsylvania (Can.) .....	428	Wood	158'	35' 4"	8' 4"	1901	Cleveland, Ohio.
232	Pere Marquette No. 3 .....	924	Wood	190'	33'	22'	1887	Gibraltar, Mich.
232	Pere Marquette No. 4 .....	941	Wood	186'	34' 6"	22'	1888	Detroit, Mich.
232	Pere Marquette No. 6 .....	371	Wood	125'	27'	9' 6"	1888	Manitowoc, Wis.
232	Pere Marquette No. 8 .....	691	Wood	171'	35'	20'	1888	So. Haven, Mich.
60	Petoskey . .....	770	Wood	171'	30'	20'	1888	Manitowoc, Wis.
	Philippe, Louis (Can.) .....	600	Steel	162'	37'	12' 3"	1914	Levis, Que.
	Pierrepoint (Can.) .....	252	Wood & Iron	123'	18' 8"	7' 1"	1871	Kingston, Ont.
82	Pleasure . .....	489	Wood	128'	39'	13' 7"	1894	W. Bay City, Mich.
169	Plow Boy .....	114	Wood	78'	21'	6'	1887	W. Bay City, Mich.
41	Plumb, Henry .....	92	Wood	79'	18'	6'	1874	Buffalo, N. Y.
82	Pontiac . .....	229	Wood	116'	25'	13' 6"	1876	Detroit, Mich.
	Prescott (Can.) .....	1107	Wood	195'	27' 8"	9'	1873	Montreal, Que.
291	Primrose (Can.) .....	189	Steel	140'	28'	6' 8"	1890	Toronto, Ont.

PASSENGER BOATS OF THE GREAT LAKES—Continued

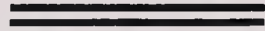
Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built	Where Built
82	Promise . . . . .	473	Wood	119'	38'	15'	1892	Detroit, Mich.
110	Puritan . . . . .	1762	Steel	260'	40'	24' 6"	1901	Toledo, Ohio.
12	Put-in-Bay . . . . .	1182	Steel	227'	46'	17' 3"	1911	Wyandotte, Mich.
41	Quebec (Can.) . . . . .	3453	Steel	303'	39'	12'	1906	Sorel, Que.
41	Ramona . . . . .	57	Steel	95'	13'	7'	1886	Newburgh, N. Y.
41	Rapids King (Can.) . . . . .	1801	Steel	230'	40' 7"	10'	1907	Toronto, Ont.
41	Rapids Prince (Can.) . . . . .	1384	Steel	196' 6"	37'	9' 8"	1910	Toronto, Ont.
41	Rapids Queen (Can.) . . . . .	1307	Steel	194' 4"	33' 3"	8' 8"	1892	Chester, U. S. A.
210	Reliance (Can.) . . . . .	311	Comp.	124'	23'	11' 6"	1892	Collingwood, Ont.
250	Rideau King (Can.) . . . . .	266	Wood	107'	23' 4"	6'	1893	Kingston, Ont.
250	Rideau Queen (Can.) . . . . .	351	Wood	108'	27' 3"	6' 9"	1900	Kingston, Ont.
41	Rochester . . . . .	1603	Steel	246' 6"	42'	14' 9"	1910	Wyandotte, Mich.
41	Saguenay (Can.) . . . . .	2777	Steel	258'	40'	14' 9"	1911	Govan, G. B.
126	Sailor Boy . . . . .	162	Wood	91'	24'	6' 6"	1891	W. Bay City, Mich.
82	Sappho . . . . .	223	Wood	107'	31'	13'	1883	Detroit, Mich.
65	Seeandbee . . . . .	6381	Steel	485'	58'	23' 6"	1913	Detroit, Mich.
62	Soo City (Can.) . . . . .	500	Wood	135'	25'	9'	1889	Benton, Hbr., Mich.
59	South American . . . . .	2662	Steel	291'	47'	18'	1914	Ecorse, Mich.
108	State of New York . . . . .	807	Wood & Iron	203'	32'	21'	1883	Wyandotte, Mich.
65	State of Ohio . . . . .	1221	Wood & Iron	225'	32'	22'	1880	Detroit, Mich.
82	Ste. Claire . . . . .	870	Steel	181'	50'	17' 6"	1910	Toledo, Ohio.
41	St. Irene (Can.) . . . . .	1768	Iron	248'	31'	11'	1866	Sorel, Que.
41	St. Lawrence (Can.) . . . . .	312	Wood	154'	21'	7'	1884	Clayton, N. Y.
41	Syracuse (Can.) . . . . .	2105	Steel	205' 6"	43' 6"	11' 6"	1911	Collingwood, Ont.
41	Tadausac (Can.) . . . . .	1701	Wood	248' 4"	34' 7"	9' 6"	1879	Wilmington, Del
306	Tashmoo . . . . .	1344	Steel	306'	36'	22' 3"	1900	Wyandotte, Mich.



PASSENGER BOATS OF THE GREAT LAKES—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built	Where Built
126	Thistle . . . . .	49	Wood	80'	14'	6'	1887	Chicago, Ill.
41	Thousand Islander . . . . .	355	Steel	164'	32'	9' 6"	1912	Toledo, Ohio.
116	Tionesta . . . . .	4329	Steel	340'	45'	28'	1903	Wyandotte, Mich.
41	Toronto (Can.) . . . . .	2779	Steel	269' 4"	36'	13' 8"	1899	Toronto, Ont.
93	Tourist . . . . .	64	Steel	76'	18'	8'	1909	Cleveland, Ohio.
291	Trillium (Can.) . . . . .	673	Steel	135'	30'	8' 4"	1910	Toronto, Ont.
41	Trois Rivieres (Can.) . . . . .	1449	Iron	219' 8"	32'	9' 6"	1869	Sorel, Que.
204	Turbinia (Can.) . . . . .	1064	Steel	250'	33'	13'	1904	Newcastle, Eng.
41	Varuna (Can.) . . . . .	134	Wood	94' 4"	17'	5' 1"	1880	Walle Isl., Ont.
82	Victoria . . . . .	192	Wood	96'	28'	11' 6"	1872	Detroit, Mich.
297	Victoria (Can.) . . . . .	181	Wood	100'	21'	5' 6"	1899	Toronto, Ont.
27	Wau-Kon . . . . .	137	Wood	95'	19'	16'	1883	Saugatuck, Mich.
41	Waubic (Can.) . . . . .	504	Steel	135'	25'	9'	1909	Collingwood, Ont.
306	Wauketa . . . . .	903	Steel	175'	38' 4"	14'	1908	Toledo, Ohio.
50	Wehrle, A., Jr. . . . .	421	Wood	148'	26' 6"	9'	1888	Sandusky, Ohio.
83	Western States . . . . .	3077	Steel	350'	45' 3"	19' 6"	1902	Wyandotte, Mich.
18	Woods, Frank . . . . .	384	Wood	120'	26'	18'	1888	Saugatuck, Mich.

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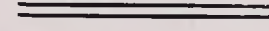
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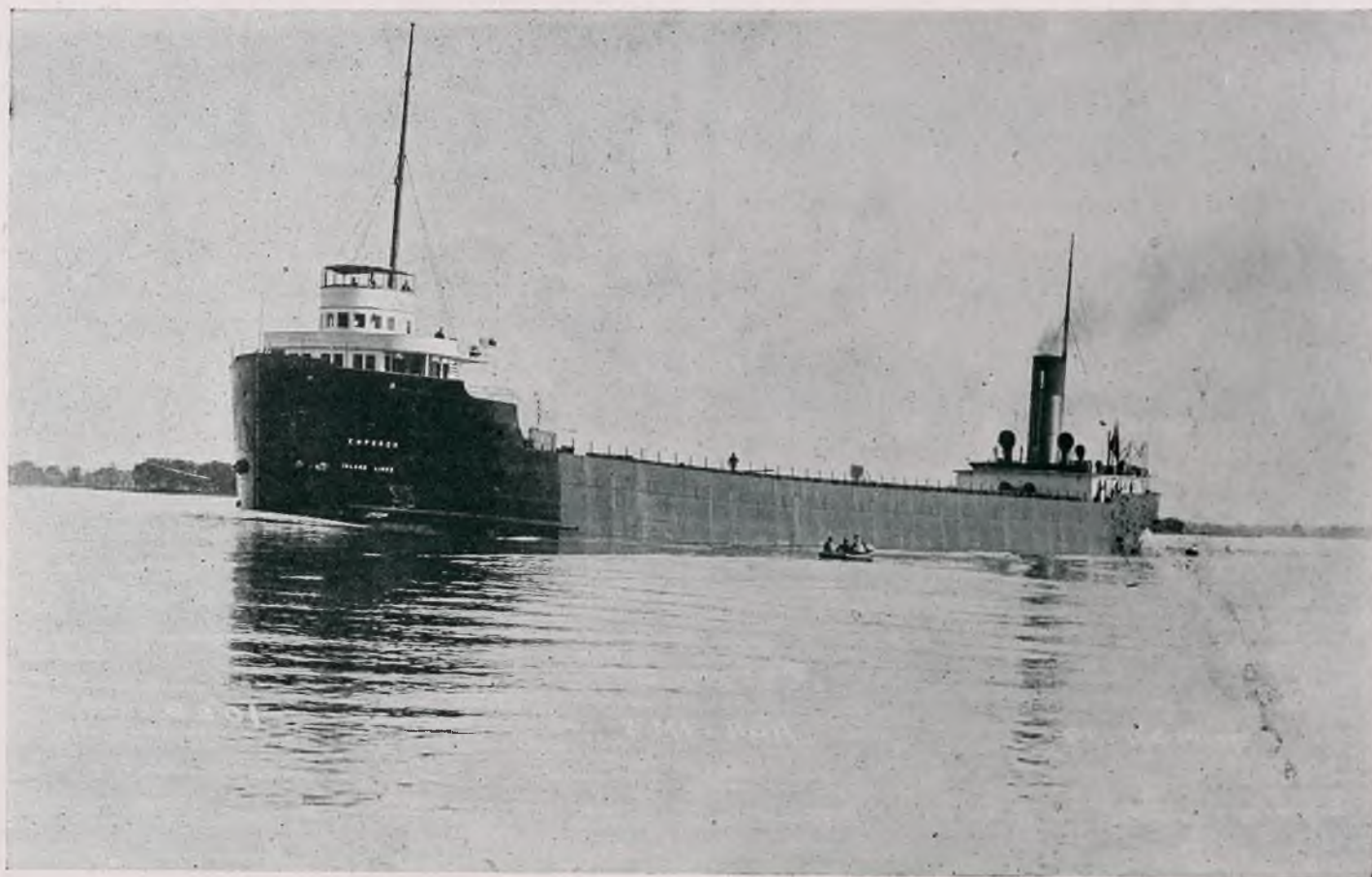
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Algoma Central Steamship Co., Ltd. ....	Fleet No.	2	Detroit & Cleveland Navigation Co. ....	Fleet No.	83
American-Interlake Co. ....	"	6	Dominion Transportation Co., Ltd. ....	"	87
American Steamship Co. ....	"	23	Donner S. S. Co. ....	"	123
American Steamship Co. ....	"	181	Duluth Steamship Co. ....	"	290
American Transit Co. ....	"	5	Eastern Steamship Co. ....	"	123
Argo Steamship Co. ....	"	10	Empire Steamship Co. ....	"	30
Arnold Transportation Co. ....	"	11	Erie Transportation Co. ....	"	93
Atlas Steamship Co. ....	"	14	Erie & Michigan Ry. & Navigation Co. ....	"	94
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Benton Transit Co. ....	"	18	Franklin Steamship Co. ....	"	215
Bristol Transit Co. ....	"	248	Gartland Steamship Co. ....	"	284
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Calumet Transportation Co. ....	"	123	Graham & Morton Transportation Co. ....	"	110
Cambria Steamship Co. ....	"	123	Grand Island Steamship Co. ....	"	63
Canada Atlantic Transit Co., Ltd. ....	"	38	Great Lakes Steamship Co. ....	"	114
Canada Steamship Lines, Ltd. ....	"	41	Great Lakes Towing Co. ....	"	115
Canadian Pacific Car and Passenger Transfer Co. ..	"	45	Great Lakes Transit Corporation ....	"	116
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Zillah Transportation Co. ....	"	20

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" America	..... " Mohawk.
" Arcturus	..... " James B. Wood.
" Argus	..... " H. S. Holden.
" Arizona	..... " City of Racine.
Bge. Arthur	..... " D. P. Rhodes.
" Arthur (Can.)	..... " G. C. Trumpff.
" Atlasco	..... " Russell Sage.
Str. Atikokan (Can.)	..... " J. B. Trevor.
" Auburn	..... " Buffalo.
Bge. Badger	..... " Whaleback 110.
" Baltic	..... " Grace Grummond.
" Batavia	..... " Whaleback 126.
" Bath	..... " Sir Jose'h Whitworth (Whaleba'k).
Str. Bacoi (Can.)	..... " Calgary
Str. Barnum, G. G.	..... " Socapa.
Bge. Baroness	..... " Whaleback 126.
Str. Barth, L. L.	..... " S. S. Wilhelm.
" Battle, Mary (Can.)	..... " Lillie Smith.
" Bay City	..... " Colgate Hoyt (Whaleback).
" Bay Port	..... " E. B. Bartlett (Whaleback).
" Bay State	..... " J. L. Colby, (Whaleback).
" Bay View	..... " A. D. Thompson (Whaleback).
" Bawating (Can.)	..... " Fortune.
" Beaupre (Can.)	..... " Montreal.
" Beaver	..... " Oval Agitator.
" Belgium	..... " H. S. Wilkinson.
" Belleville (Can.)	..... " Spartan.
Bge. Berkshire	..... " John Scott Russell (Whaleback)
" Berwyn	..... " Capt. G. W. Naughton.
Str. Bethlehem	..... " E. P. Wilbur.
" Bickerdike (Can.)	..... " Arabia.
" Billings, Frank	..... " Champlain.
" Binghamton	..... " H. J. Jewett.
" Block, Joseph	..... " Arthur Hawgood.
Bge. Bloom, Nelson	..... " Meteor.
" Bombay	..... " Whaleback 107.

Str. Booth, Edwin L.	.....Nee D. M. Whitney.
" Bothnia (Can.)	..... " Jack.
" Boucherville (Can.)	..... " Hochelago.
Bge. Boyce, Jessie L.	..... " Milan.
" Brake, William	..... " S. Gardner.
Str. Breitung, Charlotte G.	..... " Yale.
" Breitung, Edward N.	..... " John W. Moore.
Bge. Britannia	..... " Whaleback 116.
" Briton (Can.)	..... " S. & J. Collier.
Str. Brittanic	..... " Rocket.
Bge. Brookdale	..... " Moravia.
Str. Brown, Fayette	..... " C. L. Hutchinson.
" Brown, H. H.	..... " H. A. Berwind.
" Buel, F. R.	..... " St. Louis.
Bge. Buffalo	..... " Brunette.
Str. Burnham, Geo.	..... " Flora Webster.
" Business	..... " Bessemer.
" Cabotia (Can.)	..... " Hiawatha.
" Cadillac	..... " Steel King.
" Caledonia	..... " W. B. Morley.
" Campbell, J. A.	..... " A. C. Dustin.
" Canada (Can.)	..... " Queen City.
" Canobie (Can.)	..... " Iron King.
" Canopus	..... " Geo. H. Russell.
" Carbray, Felix	..... " John C. Gault.
" Cardinal (Can.)	..... " Mayflower.
" Carolina	..... " C. H. Hackley.
" Case	..... " J. C. Lockwood.
" Caspian (Can.)	..... " Passport.
" Cepheus	..... " F. W. Gilchrist.
" Cetus	..... " Henry S. Sill.
Bge. Cassie	..... " Whaleback 201.
Str. Cataract (Can.)	..... " Myles.
" Central West	..... " J. J. McWilliams.
" Chicoutimi (Can.)	..... " Sanquenay.
" Chippewa	..... " U. S. R. C. Fessendon.
" Chamberlin, C. W. (Can.)	..... " C. N. Pratt.



PRESENT NAMES OF BOATS WHOSE NAMES HAVE BEEN CHANGED—Continued

" Cicoa . . . . .	Nee John Sharpless.	Str. Dundurn (Can.) . . . . .	Nee Pere Marquette No. 2.
" City of Cheboygan . . . . .	" Duluth.	Bge. Dunn, S. H. . . . .	" W. R. Taylor.
" City of Green Bay . . . . .	" M. C. Hawley.	Str. Eads, James B. . . . .	" Globe.
" City of Hamilton (Can.) . . . . .	" Japan.	" Elva . . . . .	" Glad Tidings.
" City of London (Can.) . . . . .	" Kathleen.	" Emerald (Can.) . . . . .	" Garnet.
" City of Meaford (Can.) . . . . .	" Seamon.	" Emerald . . . . .	" D. W. Powers.
" City of Montreal (Can.) . . . . .	" China.	" Empress . . . . .	" Peerless.
" City of Ottawa (Can.) . . . . .	" India.	" Empress of Ft. Wil-	
" City of St. Ignace . . . . .	" City of Cleveland.	liam (Can.) . . . . .	" Mt. Stephen.
" City of St. Joseph . . . . .	" City of Chicago.	" Fairfax (Can.) . . . . .	" Ionia.
" City of the Straits . . . . .	" City of Detroit.	Bge. Fannie. . . . .	" Whaleback 202.
" City of Windsor (Can.) . . . . .	" E. K. Roberts.	Str. Faustin . . . . .	" E. H. Jenks.
" Clarke, E. A. S. . . . .	" H. P. Bope.	" Fellowcraft . . . . .	" Robert Mills.
" Clark, Alfred . . . . .	" Saugatuck.	" Filbert, Wm. J. . . . .	" William M. Mills.
Bge. Cobalt (Can.) . . . . .	" E. P. Beal's.	" Fleetwood . . . . .	" W. H. Gratwick.
Str. Colin W. . . . .	" Stanstead.	" Flora . . . . .	" Uranus.
" Collins, E. C. . . . .	" E. F. Holmes.	" Follette, James W. . . . .	" J. H. Farwell.
" Collinge . . . . .	" Cumberland.	" Forest City (Can.) . . . . .	" King Edward.
" Compton (Can.) . . . . .	" Eastwood & Massachusetts.	" Franz, W. C. (Can.) . . . . .	" Uranus.
" Congdon, Chester A. . . . .	" Salt Lake City.	" Fremont . . . . .	" May Graham.
" Conger Coal (Can.) . . . . .	" A. Weston.	Bge. Freeport . . . . .	" Black Diamond.
" Cornwall (Can.) . . . . .	" Algerian.	Str. Gargantua (Can.) . . . . .	" D. C. Whitney.
" Corona . . . . .	" Cibola.	" Georgia . . . . .	" City of Ludington.
" Corvus . . . . .	" J. L. Weeks.	" Glenarchy (Can.) . . . . .	" A. E. Stewart.
" Conestogo . . . . .	" Susquehanna.	" Glenfinnan (Can.) . . . . .	" Minnetonka.
" Cooke, Delos W. . . . .	" Starruca.	" Glengary (Can.) . . . . .	" Argyle.
Bge. Corry, Mike . . . . .	" J. O. Thayer.	" Glenisla (Can.) . . . . .	" Western Star.
Str. Cort, Henry . . . . .	" Pillsbury.	" Glenlivet (Can.) . . . . .	" Wawatam.
" Columbia . . . . .	" Mascotte.	" Glenmount (Can.) . . . . .	" Omega.
" Crawford, Geo. G. . . . .	" LeGrand S. DeGraff.	" Glenshee (Can.) . . . . .	" Howard M. Hanna, Jr.
" Cream City . . . . .	" Rhoda Emily.	" Glenyon (Can.) . . . . .	" Minnekahta.
" Croft, Harry W. . . . .	" F. G. Hartwell.	" Gorizia . . . . .	" Glenmount.
" Crosby, E. G. . . . .	" Naomi.	" Goudreau . . . . .	" Pontiac.
" Cygnus . . . . .	" J. C. Gilchrist.	" Graham, Geo. A. . . . .	" Marina.
Bge. Cyrenian (Can.) . . . . .	" Prussia.	" Grand Island . . . . .	" Eugene Zimmerman.
" Dawson, Sir Trevor . . . . .	" W. C. Moreland.	" Grimsby (Can.) . . . . .	" Empress of India and Argyle.
Str. Doric (Can.) . . . . .	" Tadausac.	" Hall, Charles B. . . . .	" Delaware.
" Duchess of York (Can.) . . . . .	" Prince of Wales.	" Hall, Henry B. . . . .	" Iron Duke.
Bge. Crane, J. L. . . . .	" Theo. S. Fassett.	" Hamilton (Can.) . . . . .	" Magnet.

PRESENT NAMES OF BOATS WHOSE NAMES HAVE BEEN CHANGED—Continued

Str. Hand, C. C. ....	Nee R. E. Schuck.
" Harlow . . . . .	" Preston.
" Harriet B. . . . .	" Pere Marquette No. 16.
Bge. Harriet D. (Can.) . . . .	" Eleanor.
Str. Harvey, A. F. . . . .	" Wisconsin.
" Harvey, F. E. . . . .	" John Roberts.
" Havey, Hugh R. . . . .	" J. C. Pringle.
" Hazard, F. R. . . . .	" Ontario.
" Hazard, W. A. . . . .	" John Schroeder.
Str. Helen C. . . . .	" F. E. Spinner, Quebec.
" Hennepin . . . . .	" Geo. H. Dyer.
" Hettler, H. H. . . . .	" Walter Vail.
" Hill, Charles B. . . . .	" Delaware.
" Holcomb, Ralph T. (Can.)	" Isaac Lincoln
" Holland . . . . .	" City of Milwaukee
" Horne, Charles . . . . .	" Peters.
" Howard, W. . . . .	" John Duncan.
Bge. Hossack, W. D. . . . .	" Bertha Barnes.
Str. House, Francis E. . . . .	" William B. Kerr.
" Hubbard, C. Russell..	" H. A. Hawgood.
" Huron . . . . .	" Dorius Cole.
Bge. Hutt, Hattie . . . . .	" F. B. Stockbridge.
Str. Hydrus . . . . .	" M. A. Hanna.
" Idlewild . . . . .	" Grace McMillan.
" Inland (Can.) . . . . .	" I. W. Nicholas.
" Indus . . . . .	" Lake Shore.
" Ionic (Can.) . . . . .	" Cuba.
Bge. Iron City . . . . .	" D. E. Bailey.
Str. Island Bell (Can.) . . . .	" Island Wanderer.
" Islander (Can.) . . . . .	" John Thorn.
Bge. Ivie . . . . .	" Whaleback 127.
" Jennie . . . . .	" Whaleback 111.
Str. Jacob, C. W. . . . .	" City of Paris.
" Jex, H. N. . . . .	" Frontenac.
" Jones, Harry R. . . . .	" D. G. Kerr.
" Josephine . . . . .	" Eva S. Robinson.
" Joyland . . . . .	" Wm. A. Haskell.
" Kansas . . . . .	" City of Charlevoix.
" Kaministiquia (Can.) . . . .	" Imperial.

Str. Keewatin (Can.) . . . . .	Nee Maple Leaf.
Bge. Keewatin (Can.) . . . . .	" Paragon.
" Kennedy, W. L. . . . .	" Saronic.
Str. Kenosha . . . . .	" Madagascar.
" Kentucky . . . . .	" Arundell.
Bge. King, A. B. . . . .	" Teutonia.
" King Edward (Can.)..	" Montauk.
" Kinney, A. T. . . . .	" Caldera.
" Kongo . . . . .	" Meridan and Saginaw Valley
" Lakeport . . . . .	" Boston.
" Lakewood . . . . .	" Syracuse.
" Lakeland . . . . .	" Cambria.
" Laketon . . . . .	" Saxona.
" Landbo . . . . .	" Nyanza.
" Langham . . . . .	" Tom Adams.
Str. Laurier, Sir Wilfrid (Can.) . . . . .	" H. M. Hanna, Jr.
" Leopold, N. F. . . . .	" W. R. Woodford.
" Lewisten . . . . .	" S. E. Peck.
" Liberty . . . . .	" Phenix.
Bge. Lily E. . . . .	" Louise McDonald.
Str. Lupus . . . . .	" Gilchrist.
Bge. McAvoy, H. J. . . . .	" A. Stewart.
Str. McCulloch, Jr., C. H....	" Ward Ames.
" McCollough, J. G. . . . .	" S. C. Reynolds.
" McLean, J. H. . . . .	" Bransford.
" McLouth, Pierce . . . . .	" H. R. Havey.
" Major (Can.) . . . . .	" John Mitchell.
" Malton (Can.) . . . . .	" E. M. Peck,
" Marian W. . . . .	" Byron Whittaker.
" Mars . . . . .	" E. A. S. Clarke & H. C. Frick.
" Marshall, Maggie . . . . .	" William Crippen.
" Martian (Can.) . . . . .	" Mars.
" Marquette . . . . .	" E. L. Wallace.
" Mataafa . . . . .	" Pennsylvania.
" Meaford (Can.) . . . . .	" Newmount.
" Melbourne . . . . .	" City of Holland.
" Meyer, F. A. . . . .	" J. Emery Owen
" Michipicoten (Can.) . . . . .	" City of Windsor.

PRESENT NAMES OF BOATS WHOSE NAMES HAVE BEEN CHANGED—Continued

Str. Mills, David W. ....	Nee Sparta.
“ Minnesota . . . . .	“ Harlem.
“ Mitchell, G. A. . . . .	“ Edward Smith.
“ Mitchell, Pentecost . . .	“ H. B. Hawgood.
“ Morris, Effingham B. . .	“ J. G. Munro.
“ Morrow, John F. . . . .	“ E. N. Breitung.
“ Mueller . . . . .	“ E. S. Tice.
“ Munising . . . . .	“ F. M. Osborne.
“ Murray Bay (Can.) . .	“ Carolina.
“ Myron . . . . .	“ Mark Hopkins.
“ Natironco (Can.) . . . .	“ Pioneer.
“ Navajo (Can.) . . . . .	“ King Ben.
“ Neff, Lucy . . . . .	“ W. P. Ketchum.
“ Negaunee . . . . .	“ E. N. Saunders.
“ Neilson, J. B. . . . .	“ Washburn (Whaleback)
“ Nessen, N. J. . . . .	“ H. L. Worthington.
“ New York . . . . .	“ Shrewsbury.
“ Newbold, A. E. . . . .	“ James Corrigan.
“ Niagara (Can.) . . . . .	“ Druid.
“ North King (Can.) . . .	“ Norseman.
“ North Pines . . . . .	“ Republic.
“ Northmount (Can.) . .	“ Prince Rupert.
“ O'Connor, Frank . . . .	“ City of Naples
“ Oatland . . . . .	“ W. J. Averill.
“ Olcott (Can.) . . . . .	“ Lakeside.
Bge. Olga . . . . .	“ Sandusky.
Str. Omego . . . . .	“ Fayette Brown.
“ Ongiara (Can.) . . . . .	“ Queen City.
“ Osborne, A. W. . . . .	“ Andrew Carnegie.
“ Otis, John . . . . .	“ G. J. Truesdell.
“ Orion . . . . .	“ Isaac May.
“ Ottawa (Can.) . . . . .	“ A. B. Taylor.
“ Overland (Can.) . . . .	“ Kongo.
“ Owana . . . . .	“ Pennsylvania.
“ Paipoonge (Can.) . . . .	“ Corona.
“ Paisley, Roberth . . . .	“ Geo. L. Craig.
“ Pegasus . . . . .	“ W. H. Gratwick.
“ Pere Marquette No. 3	“ F. & P. M. No. 3.
“ Pere Marquette No. 4	“ F. & P. M. No. 4.

Str. Pere Marquette No. 5..	Nee F. & P. M. No. 5.
“ Pere Marquette No. 6	“ Mark B. Covall.
“ Pere Marquette No. 7	“ Chequamegon.
“ Pere Marquette No. 8	“ Tennessee.
“ Pere Marquette No. 16	“ Muskegon and Shenago No. 2
“ Perseus . . . . .	“ F. J. Hecker.
“ Phelps, Frand D. . . . .	“ Cyclone.
“ Phenix . . . . .	“ W. A. Avery.
“ Philbin, D. M. . . . .	“ Sylvania.
“ Pierce, E. L. . . . .	“ St. Clair.
“ Pine Lake . . . . .	“ Ida M. Torrent.
“ Pioneer . . . . .	“ J. H. Bartow.
“ Pontiac . . . . .	“ Excelsior.
“ Portland . . . . .	“ A. B. Wolvin.
“ Prescott (Can.) . . . .	“ Bohemian.
“ Pringle, John C. . . . .	“ W. H. Gratwick.
Tug Pringle, R. C. . . . .	“ Pere Marquette No. 7.
Bge. Quickstep . . . . .	“ S. Anderson.
Str. Racine . . . . .	“ Argo.
“ Rapids Queen . . . . .	“ Brockville.
“ Reeb, M. A. . . . .	“ Kensington.
“ Recor, E. P. . . . .	“ F. S. Faxton.
“ Regulus . . . . .	“ J. J. Albright.
“ Reiss, Clemens A. . . . .	“ F. T. Heffelfinger.
“ Reiss, Otto M. . . . .	“ F. B. Wells.
“ Reiss, Richard J. . . . .	“ Geo. Peavey.
“ Reiss, Wm. A. . . . .	“ Frank Peavey.
“ Reliance . . . . .	“ H. C. Sprague.
“ Rend, W. P. . . . .	“ G. G. Hadley.
“ Rene, J. G. . . . .	“ Ceylon.
“ Replogle, J. Leonard . .	“ Charles Weston.
“ Richard, W. . . . .	“ Pueblo.
“ Richardson, G. A. . . . .	“ Geo. J. Gould.
“ Richardson, R. R. . . . .	“ J. M. Jenks.
“ Richardson, W. C. . . . .	“ Wainwright.
“ Richland Star . . . . .	“ Chas. A. Luck, City of Berlin.
“ Richland Queen . . . . .	“ Amazonas.
Bge. Richland Daisy . . . . .	“ Paisley.
“ Reverton . . . . .	“ L. C. Waldo.

PRESENT NAMES OF BOATS WHOSE NAMES HAVE BEEN CHANGED—Continue d

Bge. Rock Ferry (Can.) ...Nee Merrimac.  
 " Rome . . . . . " Chicago.  
 " Roberts, John . . . . . " City of Rossford.  
 " Roberts, W. T. . . . . " E. D. Carter.  
 " Robbins, S. H. . . . . " H. W. Oliver.  
 " Robinson, C. S. . . . . " Loftus Cuddy.  
 " Rickarton (Can.) . . . . " Chippewa.  
 " Romeo . . . . . " Tailor.  
 " Sagamore . . . . . " D. Z. Norton.  
 Str. Saronic . . . . . " United Empire.  
 " Sarnian (Can.) . . . . . " Chill.  
 " Sarnor (Can.) . . . . . " Britannic.  
 " Saturn . . . . . " Walter Scranton  
 " Saunders, Jr., E. N. . . . " Abraham Stearn.  
 " Schneider, Cletus . . . . " Thomas Adams.  
 Schr. Skeelee, E. E. . . . . " John Mee.  
 " Slick, Edward E. . . . . " D. B. Meacham.  
 Str. Soo City (Can.) . . . . " Mabel Bradshaw.  
 " Senator Derbyshire . . . " Bermuda.  
 " Shiras, McGillivray . . . " Umbria.  
 " Sirius . . . . . " R. L. Ireland.  
 " Smith, Home (Can.).. . . " Wm. S. Mack.  
 " Sowards (Can.) . . . . . " Rand.  
 Bge. Stanley, H. M. (Can.) " J. H. Breck.  
 Str. Stanstead (Can.) . . . . " Clyde.  
 " Staples, Gale (Can.) . . . " Caledonia.  
 " State of New York . . . . " City of Mackinac.  
 " State of Ohio . . . . . " City of Alpena.  
 " Stevens, Frank B.(Can.) " St. Joseph.  
 " Stifel, Wm. F. . . . . " Normania.  
 " Struggess, Geo. . . . . " Higgie.  
 " St. Irene (Can.) . . . . " Canada.  
 " Stuart, W. . . . . " Collinge.

Str. Syracuse . . . . .Nee Geronia.  
 " Sweden . . . . . " L. C. Smith.  
 Bge. Taber, Horace . . . . . " Amoskeag.  
 Str. Tadousac (Can.) . . . . " Virginia.  
 " Taurus . . . . . " Perry G. Walker.  
 " Taylor, S. Frater (Can.) " Saturn.  
 " Tennessee . . . . . " John Spry.  
 " Tennessee . . . . . " H. W. Williams.  
 " Thom, Jno. S. . . . . " H. R. James.  
 " Three Brothers . . . . . " H. W. Williams.  
 Bge. Tolmie, John (Can.) . . . " Clara.  
 " Transfer . . . . . " Wm. McGregor.  
 " Transport . . . . . " C. C. Barnes.  
 Str. Turner J. J. . . . . " J. Q. Riddle.  
 " Underwood, F. D. . . . . " Ramapo.  
 " Uhrig, Edward A. . . . . " Sheldon Parks.  
 " Uranus . . . . . " Wm. E. Reis.  
 " Valcarter (Can.) . . . . . " W. H. Mack.  
 " Van Vleck, Geo. H. . . . . " Portage.  
 " Vermillion . . . . . " J. C. Gilchrist.  
 " Vega . . . . . " Pendennis White.  
 " Warren, Homer . . . . . " Atlantic.  
 " Wau-Kon . . . . . " Charles West.  
 " Wese . . . . . " Orion.  
 " Westerian (Can.) . . . . . " City of Montreal.  
 " Wethersfield (Can.) . . . " Westmount.  
 Bge. Whale . . . . . " Ann Arbor No. 2.  
 " Windsor (Can.) . . . . . " Iroquois.  
 " Winnipeg . . . . . " Juniata.  
 " Woodlands . . . . . " Middlesex.  
 " Yonkers . . . . . " Milwaukee.  
 " Zillah . . . . . " Edward Smith.

## UPPER LAKE ORE DOCK SUPERINTENDENTS

Allouez . . . . .	Great Northern . . . . .	J. C. Morrell
Superior . . . . .	Soo Line . . . . .	O. L. Peterson
" . . . . .	Northern Pacific . . . . .	A. E. Anderson
Duluth . . . . .	D. M. & N. . . . .	Geo. Treviranous
Ashland . . . . .	C. & N. W. . . . .	John Sampson
" . . . . .	Soo Line . . . . .	J. P. Temby
Marquette . . . . .	Presque Isle . . . . .	E. L. Stewart
" . . . . .	South Shore . . . . .	S. B. Bowran
Two Harbors . . . . .	D. & I. R. . . . .	Geo. W. Watts
Escanaba . . . . .	C. & N. W. . . . .	H. J. Robertson
" . . . . .	C. M. & St. Paul . . . . .	Geo. M. Stock
Key Harbor . . . . .	Canadian Northern . . . . .	

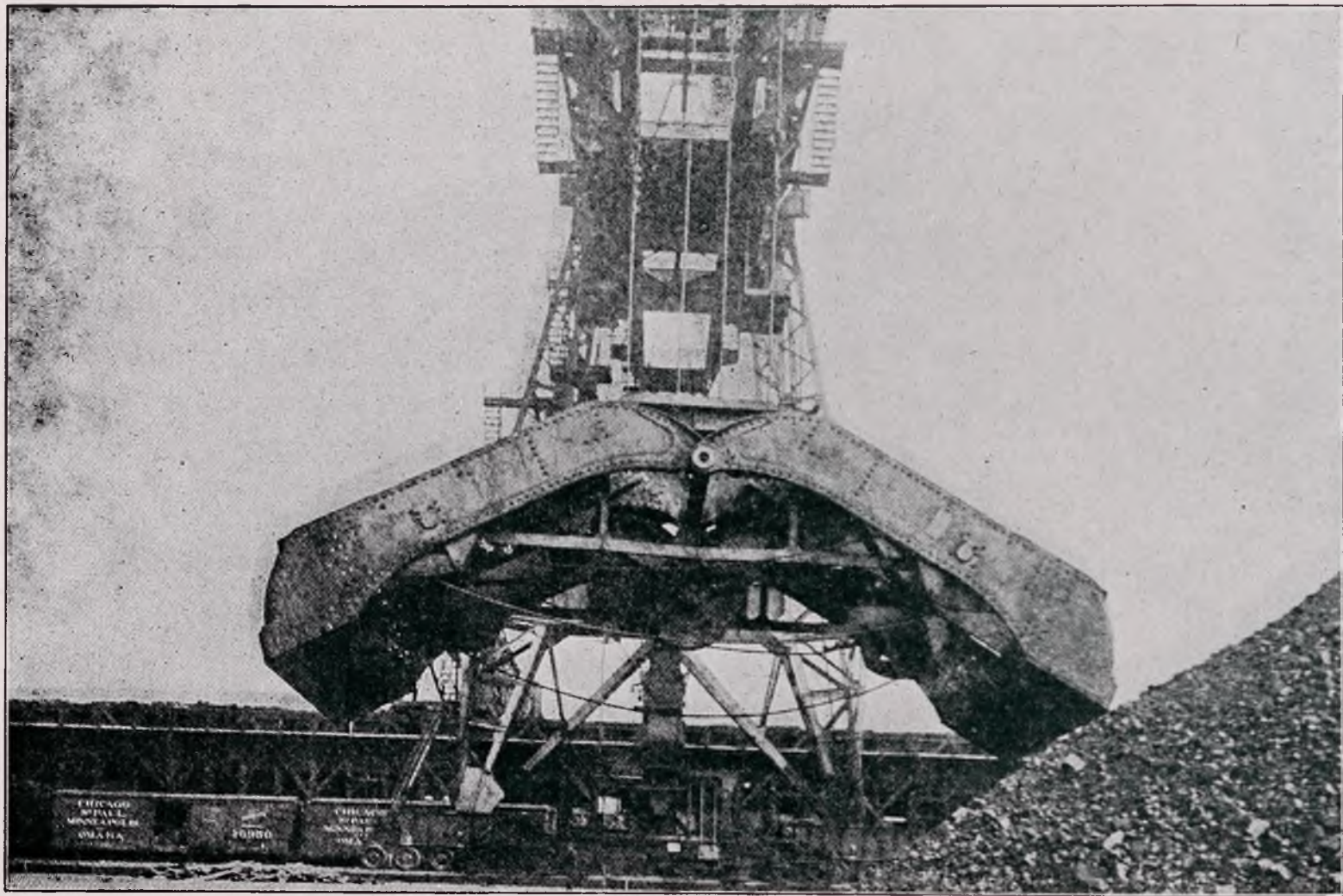
### Opening Dates of Navigation Between Detroit and Cleveland

1863 . . . . .	March 28	1891 . . . . .	March 12
1864 . . . . .	March 28	1892 . . . . .	March 27
1865 . . . . .	March 28	1893 . . . . .	March 29
1866 . . . . .	April 10	1894 . . . . .	March 19
1867 . . . . .	April 8	1895 . . . . .	April 4
1868 . . . . .	March 24	1896 . . . . .	March 13
1869 . . . . .	April 6	1897 . . . . .	March 21
1870 . . . . .	April 8	1899 . . . . .	March 27
1871 . . . . .	March 21	1900 . . . . .	April 9
1872 . . . . .	April 8	1901 . . . . .	April 1
1873 . . . . .	April 8	1902 . . . . .	March 18
1874 . . . . .	March 23	1903 . . . . .	March 18
1875 . . . . .	April 12	1904 . . . . .	April 5
1876 . . . . .	April 4	1905 . . . . .	April 3
1877 . . . . .	April 10	1906 . . . . .	March 5
1878 . . . . .	March 21	1897 . . . . .	March 13
1879 . . . . .	April 1	1898 . . . . .	March 21
1880 . . . . .	March 8	1908 . . . . .	April 1
1881 . . . . .	April 19	1909 . . . . .	March 21
1882 . . . . .	March 14	1910 . . . . .	March 28
1883 . . . . .	April 7	1911 . . . . .	March 27
1884 . . . . .	April 2	1912 . . . . .	April 15
1885 . . . . .	April 17	1913 . . . . .	April 1
1886 . . . . .	March 25	1914 . . . . .	April 7
1887 . . . . .	March 8	1915 . . . . .	April 5
1888 . . . . .	March 28	1916 . . . . .	April 1
1889 . . . . .	March 21	1917 . . . . .	April 2
1890 . . . . .	March 1	1918 . . . . .	March 25
		1919 . . . . .	March 16

### BITUMINOUS COAL PRODUCTION OF THE UNITED STATES.

The estimates of bituminous coal production in the United States by months during 1918 have been completed by the United States Geological Survey. These figures, which include lignite and coal made into coke, compared with the corresponding months of 1917, show an increase of 34,092,437 net tons for the 12 months. The figures by months are as follows:

Months	1917	1918
January . . . . .	47,967,354	42,607,206
February . . . . .	41,352,711	44,384,937
March . . . . .	47,868,652	48,631,115
April . . . . .	41,854,320	46,590,570
May . . . . .	47,086,452	50,927,195
June . . . . .	46,824,646	51,758,214
July . . . . .	46,291,572	55,587,312
August . . . . .	47,372,226	55,732,092
September . . . . .	45,107,956	51,757,334
October . . . . .	48,337,726	52,885,513
November . . . . .	47,689,801	44,386,987
December . . . . .	44,037,147	40,634,525
<b>Total . . . . .</b>	<b>551,790,563</b>	<b>585,883,000</b>



An 8 ton Clean-up Clamshell used on Dock No. 1 of The Northwestern Fuel Co., at Superior, Wis., Spread, open 24 feet, 9 1-2 inches.

MISCELLANEOUS

GREAT LAKES TRAFFIC STATISTICS

Commerce Through Soo Canal

Items	Total traffic for		Amount	Increase or decrease	
	Season 1917	Season 1918		Inc.	Per cent Dec.
<b>Vessels:</b>					
Steamers, number .....	19,569	17,067	2,502	..	13
Sailings, number .....	1,943	1,634	309	..	16
Unregistered, number .....	1,373	1,909	536	39	..
Total, number .....	22,885	20,610	2,275	..	10
<b>Lockages, number .....</b>					
	14,611	14,903	292	2	..
<b>Tonnage:</b>					
Registered, net .....	65,307,233	61,100,244	4,206,989	..	6
Freight, short tons .....	89,813,898	85,680,327	4,133,571	..	5
Passengers, number .....	38,339	34,990	3,349	..	9
Lumber, M. ft. B. M. ....	350,609	296,919	53,690	..	15
Flour, barrels .....	8,450,039	8,228,844	221,195	..	3
Wheat, bushels .....	185,899,449	122,718,146	63,181,303	..	34
Grain, bushels .....	67,423,980	30,800,621	36,623,359	..	54
Copper, short tons .....	118,812	86,078	32,734	..	28
Iron ore, short tons .....	61,374,090	60,551,296	822,794	..	1
Manufactured and pig iron, short tons .....	102,082	38,767	63,315	..	62
Coal, soft, short tons .....	15,736,654	15,770,560	33,906	..	..
Coal hard, short tons .....	2,562,199	2,211,050	351,149	..	14
Salt, short tons .....	84,656	81,007	3,649	..	4
Oil, short tons .....	262,489	334,134	71,645	27	..
Stone, short tons .....	571,001	402,009	168,992	..	30
General merchandise, short tons .....	658,365	494,137	163,928	..	25

The United States canal was opened April 20, and closed Dec. 14, 1918; season, 239 days.

The Canadian canal was opened April 23, and closed Dec. 17, 1918; season, 239 days.

COAL MOVEMENT ON LAKES, NET TONS

Year	Soft coal				Total*	Hard coal	Total coal movement
	Pittsburgh	Ohio	Virginia	Total*			
1918	7,611,005	10,031,577	9,217,790	29,388,422	3,948,705	33,337,127	
1917	7,581,465	8,327,460	10,451,667	28,470,279	4,689,983	33,160,262	
1916	8,674,000	5,163,000	9,491,000	24,369,000	4,423,800	28,792,800	
1915	10,100,000	2,620,000	8,750,000	22,420,000	3,800,000	26,220,000	
1914	11,195,000	1,363,000	9,106,000	22,995,000	4,285,228	27,280,228	
1913	13,415,473	6,176,624	8,736,586	28,328,683	5,033,696	33,362,379	
1912	11,300,000	4,676,000	7,360,000	23,335,000	4,204,741	27,519,741	
1911	10,611,941	4,019,544	7,151,200	21,782,685	3,917,419	25,700,104	
1910	11,911,900	4,297,300	6,629,500	22,838,700	3,639,368	26,478,068	
1909	8,687,395	3,002,815	3,874,570	15,564,690	3,052,706	18,617,396	
1908	8,700,000	3,600,000	3,450,000	15,750,000	3,538,098	19,288,098	
1907	10,549,995	4,074,296	3,420,941	18,037,232	3,449,695	21,486,927	
1906	9,237,272	2,560,906	2,743,732	14,591,910	2,681,808	17,273,718	
1905	7,443,883	2,062,692	2,109,262	11,615,837	2,785,362	14,401,199	

\*Includes fuel coal and also shipments from the Kentucky district and Pennsylvania districts other than Pittsburgh.

MISCELLANEOUS

IRON ORE TRAFFIC ON GREAT LAKES IN 1918.

	Iron Ore Shipments From Upper Lake Ports, Gross Tons.					
	1918	1917	1916	1915	1914	1913
Escanaba . . . . .	6,774,969	7,156,854	7,457,444	5,649,289	3,664,451	5,399,444
Marquette . . . . .	3,457,054	3,207,145	3,858,092	3,099,589	1,755,726	3,137,617
Ashland . . . . .	7,565,608	7,597,841	8,057,814	5,146,772	3,363,419	4,338,230
Superior . . . . .	14,068,341	13,978,741	12,787,046	8,342,793	11,309,748	13,788,343
Duluth . . . . .	20,567,288	20,567,419	21,837,949	15,437,419	6,318,291	12,331,126
Two Harbors . . . . .	8,723,472	9,990,901	10,735,853	8,642,942	5,610,262	10,075,718
<b>Total . . . . .</b>	<b>61,156,732</b>	<b>62,498,901</b>	<b>64,734,198</b>	<b>46,318,804</b>	<b>32,021,897</b>	<b>49,070,478</b>

	Iron Ore Receipts at Lake Erie Ports, Gross Tons					
	1918	1917	1916	1915	1914	1913
Detroit . . . . .	444,936	418,151	425,579	459,877	332,564	363,001
Toledo . . . . .	2,608,497	2,445,602	2,035,160	1,158,374	773,711	1,084,215
Huron . . . . .	1,620,712	1,631,395	1,324,112	695,865	617,363	687,485
Lorain . . . . .	3,494,370	3,831,244	4,613,929	3,517,258	1,677,988	3,709,213
Cleveland . . . . .	9,681,882	9,077,161	10,669,745	7,504,697	5,519,698	8,812,583
Fairport . . . . .	1,853,465	2,311,179	2,580,647	2,001,103	1,558,134	2,037,126
Ashtabula . . . . .	11,001,574	10,251,304	11,474,268	7,813,101	5,318,788	8,336,126
Conneaut . . . . .	6,650,895	8,729,754	9,588,341	8,573,509	6,263,480	7,849,303
Erie . . . . .	1,809,619	2,079,227	1,525,031	709,875	260,991	713,904
Buffalo . . . . .	8,845,775	7,843,215	7,432,220	5,339,724	2,913,273	5,506,691
Port Colborne . . . . .	171,287	194,627	138,240	196,077	166,665	.....
<b>Total . . . . .</b>	<b>48,183,015</b>	<b>48,812,859</b>	<b>51,807,272</b>	<b>37,967,460</b>	<b>25,402,655</b>	<b>39,099,647</b>

	Iron Ore Receipts at Lake Michigan Ports, Gross Tons.					
	1918	1917	1916	1915	1914	1913
So. Chicago, Ill. . . . .	6,113,492	7,030,174	7,740,877	4,195,976	3,060,587	5,572,866
E. Jordon, Mich. . . . .	33,940	35,792	38,573	37,658	38,158	28,444
Boyne City, Mich. . . . .	34,137	44,437	43,788	40,401	50,098	45,028
Elk Rapids, Mich. . . . .	.....	.....	.....	.....	28,437	.....
Milwaukee . . . . .	166,626	224,570	239,219	187,286	93,121	234,591
Ind. Harbor, Ind. . . . .	1,413,392	900,692	793,215	689,226	661,054	455,252
Gary, Ind. . . . .	3,848,295	3,883,082	2,718,185	2,421,924	1,631,564	2,365,551
<b>Total . . . . .</b>	<b>11,609,822</b>	<b>12,118,747</b>	<b>11,573,857</b>	<b>7,572,471</b>	<b>6,109,019</b>	<b>8,701,732</b>

	Iron Ore on Lake Erie Docks Dec. 1, Gross Tons.					
	1918	1917	1916	1915	1914	1913
Toledo . . . . .	399,839	399,479	394,869	311,799	580,600	349,047
Sandusky . . . . .	.....	.....	.....	1,871	2,471	2,472
Huron . . . . .	607,233	556,765	590,743	558,692	433,769	441,541
Lorain . . . . .	828,384	978,108	1,076,105	824,988	548,097	694,704
Cleveland . . . . .	2,117,176	1,914,071	1,936,906	1,795,962	1,757,543	1,930,720
Fairport . . . . .	510,855	536,580	474,930	413,994	406,124	478,014
Ashtabula . . . . .	3,292,738	3,435,624	3,266,752	2,870,204	2,749,315	3,202,807
Conneaut . . . . .	1,703,701	1,544,706	1,363,550	1,216,686	1,160,639	1,248,032
Erie . . . . .	439,094	519,698	625,193	589,355	484,467	594,613
Buffalo . . . . .	525,947	441,318	438,712	326,800	234,880	319,726
<b>Total . . . . .</b>	<b>10,455,122</b>	<b>10,326,349</b>	<b>10,167,760</b>	<b>8,910,351</b>	<b>8,407,905</b>	<b>9,261,676</b>



## MISCELLANEOUS

### RECORD CARGOES.

#### Ore Cargoes.

	Gross Tons
1918 William P. Snyder	13654
1917 William P. Snyder	13642
1917 Kerr, D. G.	*13732
1916 William P. Snyder, Jr.	13694
1916 Col. J. M. Schoonmaker	13525
1906 H. H. Rogers	*13333
1905 E. H. Gary	12003
1904 A. B. Wolvin	10300
1903 William Edenborn	7800
1902 Barge John Smeaton	7800
1900 John W. Gates	7405
1899 Barge John Smeaton	7296
1898 Barge John A. Roebling	6860
1897 Amazon	5464
1896 Aurania	5119

\*Escanaba to So. Chicago

#### Coal Cargoes.

	Net Tons
1918 Col. J. M. Schoonmaker	14767
1917 Col. J. M. Schoonmaker	14751
1916 Col. J. M. Schoonmaker	14474
1916 Col. J. M. Schoonmaker	13904
1914 William P. Snyder, Jr.	13849
1913 Col. J. M. Schoonmaker	13712

#### Wheat Cargoes.

	Bushels
1918 Francis E. Heuse	480,000
1917 William P. Snyder, Jr.	486,500
1916 W. Grant Morden	490,724
1915 W. Grant Morden	476,315

#### Oats Cargoes.

	Bushels
1917 W. Grant Morden	740,000
1915 W. Grant Morden	760,066
1914 Mathew Andrews	605,898

#### Flax Cargoes.

	Bushels
1916 Shenango	445,000
1916 Thomas Walters	415,000
1907 D. R. Hanna	403,000

#### Stone Cargoes.

1918 D. G. Kerr	Calcite to Gary	14,084	Gross tons
1918 D. G. Kerr	Calcite to Gary	15,689	Net tons

### Welland Canal.

1918 Easton (Upbound)	3,271	Net tons	Mfg. Pulp
1918 Toiler (Downbound)	2,500	Net tons	Wheat

### SIZE OF GREAT LAKES BULK FREIGHTER FLEET

Year	No. of vessels Jan. 1	Sub- Launch- trac- ings tions,		Carrying capacity of new vessels, gross tons	Carrying capacity, subtracted, gross tons	Total-carry- ing capacity, one trip gross tons
		number	number			
1919	540					3,187,021
1918	548		8		38,742	3,225,763
1917	540	11	3	126,000	9,822	3,109,585
1916	546	7	13	82,000	45,734	3,073,319
1915	546	1	1	10,000	3,104	3,066,423
1914	548	7	9	61,000	26,166	3,031,589
1913	572	4	28	28,000	120,919	3,124,508
1912	589	5	22	49,500	60,945	3,135,953
1911	592	5	8	55,000	29,477	3,108,330
1910	589	20	17	194,500	60,617	2,973,447
1909	587	17	5	157,300	37,197	2,853,344
1908	567	24	4	101,400	14,837	2,766,781
1907	542	40	16	368,000	46,973	2,442,754
1906	514	40	18	381,000	40,987	2,065,111
1905	518	29	33	260,200	114,374	1,919,285

### DULUTH AND SUPERIOR COAL RECEIPTS FOR TWO SEASONS.

	1917	1917	1918	1918
	Anthracite	Bituminous	Anthracite	Bituminous
Northwestern Fuel Co.	537,422	1,456,365	443,100	1,352,800
Berwind Fuel Co.		679,863		819,000
Pittsburg Coal Co.	280,610	1,043,724	338,900	1,320,500
Superior Coal & Dock Co.	44,510	173,319	20,500	115,500
Boston Coal & Dock Co.	38,897	291,160	31,000	224,700
Carnegie Coal & Dock Co.	142,864	850,647	110,300	1,127,100
Hanna Coal Co.	197,465	504,201	127,500	497,500
Island Creek Coal Co.		221,814		328,800
Clarkson Coal Co.	20,612	284,585	12,000	318,800
Northern Coal & Dock Co.	92,864	475,987	48,100	478,200
Zenith Furnace Co.		595,989		457,600
Philadelphia & Reading	123,331	192,893	147,500	195,800
Steel Corporation		1,534,001		1,306,500
Reiss Coal Co.	168,801	701,045	140,400	601,500
Pittsburg & Ashland		157,470	6,600	166,600
Lehigh Valley Coal Co.	194,240		183,700	
Great Lakes Coal Co.		57,623		280,000
Totals	1,841,616	9,220,686	1,609,600	9,590,900

**MISCELLANEOUS**  
**STATEMENT OF LAKE COAL TONNAGE LOADED INTO VESSELS AT LAKE ERIE PORTS DURING SEASON 1918.**  
(Compiled by Ore and Coal Exchange, Cleveland, Ohio.)

PORT	DOCK	CARGO COAL.										
		April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Season 1918.		
Toledo	B. & O. ....	3,399	257,926	299,377	431,858	565,959	578,751	569,965	252,893	2,960,128		
Toledo	H. V. ....	72,419	519,439	583,917	764,099	861,551	798,783	862,546	528,904	4,991,658		
Toledo	T. & O. C. ....	56,550	270,099	297,850	278,920	363,155	233,117	352,370	171,940	2,123,001		
Sandusky	Penna. ....	44,817	293,758	367,022	259,519	378,481	420,811	446,255	178,487	2,389,150		
Huron	W. & L. E. .... *	103,911	249,136	278,966	300,058	361,882	313,773	320,999	156,599	2,094,324		
Lorain	B. & O. .... *	121,233	331,587	333,401	438,542	566,913	592,725	570,577	387,703	3,342,681		
Cleveland	Erie . ....	82,267	85,830	66,328	64,105	89,978	98,843	130,663	52,308	670,322		
Cleveland	Penna. .... *	113,611	263,901	305,765	413,494	397,036	411,254	399,048	243,370	2,547,479		
Fairport	B. & O. ....			363	54,460	50,350	44,152	84,718	37,105	271,148		
Ashtabula	N. Y. C. ....	29,174	242,492	240,040	267,458	425,133	330,992	275,803	143,184	1,954,276		
Ashtabula	Penna. ....	85,549	156,482	161,510	220,551	154,428	249,436	310,920	112,213	1,451,089		
Conneaut	B. & L. E. .... *	133,685	284,333	295,332	307,874	384,251	329,105	329,294	149,073	2,212,947		
Erie	Pa. West .... *	14,182	86,912	78,486	123,960	128,606	80,849	105,957	60,814	679,766		
Erie	Pa. East ....			55,209	114,839	77,987	84,954	95,954	36,405	465,348		
		860,797	3,041,895	3,363,566	4,039,737	4,805,710	4,666,545	4,855,069	2,519,998	28,153,317		
				<b>FUEL COAL.</b>								
Toledo	B. & O. ....		5,204	3,309	7,432	12,786	14,794	15,206	6,199	64,930		
Toledo	H. V. ....	1,713	13,983	19,789	24,159	22,371	22,160	23,221	16,734	144,130		
Toledo	T. & O. C. ....	1,873	8,456	7,620	7,262	10,268	8,037	7,267	4,027	54,910		
Sandusky	Penna. ....	1,214	6,905	9,720	5,961	10,146	10,295	10,246	4,620	59,107		
Huron	W. & L. E. ....	3,950	9,970	9,602	12,262	11,821	9,957	11,391	6,450	75,405		
Lorain	B. & O. ....	3,734	10,310	10,273	11,866	16,311	15,462	14,825	9,532	92,313		
Cleveland	Erie . ....	2,009	2,929	2,191	2,208	3,436	3,356	4,344	2,341	22,814		
Cleveland	Penna. ....	5,273	43,576	46,641	51,127	38,990	38,635	39,356	29,300	292,898		
Fairport	B. & O. ....	744	4,886	8,245	7,957	5,926	6,368	7,016	5,294	46,436		
Ashtabula	N. Y. C. ....	4,955	28,235	32,379	33,203	35,234	30,157	28,955	18,194	211,312		
Ashtabula	Penna. ....	3,029	7,521	13,837	16,854	9,285	12,405	13,384	6,056	82,371		
Conneaut	B. & L. E. ....	1,309	5,155	5,401	5,246	4,198	4,198	4,732	2,758	32,945		
Erie	Pa. West ....	346	5,173	5,273	6,627	8,405	4,826	4,081	4,424	39,155		
Erie	Pa. East ....			1,506	2,404	2,043	4,055	4,794	1,399	16,201		
		30,249	152,303	175,786	194,568	191,220	184,653	188,818	117,328	1,234,925		
				<b>TOTAL CARGO AND FUEL COAL.</b>								
Toledo	B. & O. ....	3,399	263,130	302,686	439,290	578,745	593,545	585,171	259,092	3,025,058		
Toledo	H. V. ....	74,132	533,422	603,706	788,258	883,922	820,943	885,767	545,638	5,135,788		
Toledo	T. & O. C. ....	58,523	278,555	305,470	286,182	373,423	340,154	359,637	175,967	2,177,911		
Sandusky	Penna. ....	46,031	300,663	376,742	265,480	388,627	431,106	456,501	183,107	2,448,257		
Huron	W. & L. E. .... *	107,861	259,106	288,568	312,320	373,703	323,730	332,390	172,049	2,169,727		
Lorain	B. & O. .... *	124,967	341,897	343,674	450,408	583,224	608,187	585,402	397,235	3,434,994		
Cleveland	Erie . ....	84,276	88,759	68,519	66,313	93,414	102,199	135,007	54,649	693,136		
Cleveland	Penna. .... *	118,884	307,477	352,406	464,621	436,026	449,889	438,404	272,670	2,840,377		
Fairport	B. & O. ....	744	4,886	8,608	62,417	56,276	50,520	91,734	42,399	317,584		
Ashtabula	N. Y. C. ....	34,129	270,727	272,419	300,661	460,367	361,149	504,758	161,378	2,165,588		
Ashtabula	Penna. ....	88,578	164,003	175,347	237,405	163,713	261,841	324,304	118,269	1,533,460		
Conneaut	B. & L. E. .... *	134,994	289,488	300,733	313,120	388,449	333,251	334,026	151,821	2,245,892		
Erie	Pa. West .... *	14,528	92,085	83,759	130,587	137,011	85,675	110,038	65,258	718,921		
Erie	Pa. East ....			56,715	117,243	80,030	89,009	100,748	37,804	481,549		
		891,046	3,194,198	3,539,352	4,234,305	4,996,930	4,851,198	5,043,887	2,637,326	29,388,242		

\*NOTE.—Above figures include Lake Coal Tonnage, prior to opening of season, dumped during April, which was not included in the Exchange Account as follows:  
Huron 2,651, Lorain 10,862, Cleveland—Pa. Co. 4,485, Conneaut 4,143, Erie—Pa. West 52. Total 22,193.

## MISCELLANEOUS

### GRAIN TRADE OF THE GREAT LAKES

(Shipments of flour not included)

	1918	1917	1916	1915	1914
Lake Superior .....	154,830,332	253,315,244	319,252,876	320,236,805	218,622,167
Chicago .....	68,842,269	5,947,955	25,058,000	44,438,000	87,791,000
Milwaukee .....	17,431,766	1,924,385	3,188,280	4,324,428	10,857,683
Other ports .....	4,188,587	1,668,317	16,500,000	17,020,142	18,430,099
<b>Totals, bushels .....</b>	<b>245,292,954</b>	<b>262,855,601</b>	<b>363,999,156</b>	<b>386,019,375</b>	<b>337,718,949</b>
<b>Totals in net tons .....</b>	<b>6,548,680</b>	<b>7,161,716</b>	<b>10,555,975</b>	<b>11,194,562</b>	<b>9,793,850</b>

#### GROSS AND NET TONS

The Gross Figures represent the price per 2,240 lbs. The net Figures will give the corresponding price for 2,000 lbs.

Gro.	Net	Gro.	Net	Gro.	Net	Gro.	Net
\$ ct.	\$ ct.	\$ ct.	\$ ct.	\$ ct.	\$ ct.	\$ ct.	\$ ct.
.50	.45	.98	.88	1.46	1.30	3.70	3.30
.51	.46	.99	.88	1.47	1.31	3.75	3.35
.52	.46	1.00	.89	1.48	1.32	3.80	3.39
.53	.47	1.01	.90	1.49	1.33	3.85	3.44
.54	.48	1.02	.91	1.50	1.34	3.90	3.48
.55	.49	1.03	.92	1.55	1.38	3.95	3.53
.56	.50	1.04	.93	1.60	1.43	4.00	3.57
.57	.51	1.05	.94	1.65	1.47	4.05	3.62
.58	.52	1.06	.95	1.70	1.52	4.10	3.66
.59	.53	1.07	.96	1.75	1.56	4.15	3.71
.60	.54	1.08	.96	1.80	1.61	4.20	3.75
.61	.54	1.09	.97	1.85	1.65	4.25	3.79
.62	.55	1.10	.98	1.90	1.70	4.30	3.84
.63	.56	1.11	.99	1.95	1.74	4.35	3.88
.64	.57	1.12	1.00	2.00	1.79	4.40	3.93
.65	.58	1.13	1.01	2.05	1.83	4.45	3.97
.66	.59	1.14	1.02	2.10	1.88	4.50	4.02
.67	.60	1.15	1.03	2.15	1.92	4.55	4.06
.68	.61	1.16	1.04	2.20	1.96	4.60	4.11
.69	.62	1.17	1.04	2.25	2.01	4.65	4.15
.70	.63	1.18	1.05	2.30	2.05	4.70	4.20
.71	.63	1.19	1.06	2.35	2.10	4.75	4.24
.72	.64	1.20	1.07	2.40	2.14	4.80	4.29
.73	.65	1.21	1.08	2.45	2.19	4.85	4.33
.74	.66	1.22	1.09	2.50	2.23	4.90	4.38
.75	.67	1.23	1.10	2.55	2.28	4.95	4.42

.76	.68	1.24	1.11	2.60	2.32	5.00	4.46
.77	.69	1.25	1.12	2.65	2.37	5.05	4.51
.78	.70	1.26	1.13	2.70	2.41	5.10	4.55
.79	.71	1.27	1.13	2.75	2.46	5.15	4.60
.80	.71	1.28	1.14	2.80	2.50	5.20	4.64
.81	.72	1.29	1.15	2.85	2.54	5.25	4.69
.82	.73	1.30	1.16	2.90	2.59	5.30	4.73
.83	.74	1.31	1.17	2.95	2.63	5.35	4.78
.84	.75	1.32	1.18	3.00	2.68	5.40	4.82
.85	.76	1.33	1.19	3.05	2.72	5.45	4.87
.86	.77	1.34	1.20	3.10	2.77	5.50	4.91
.87	.78	1.35	1.21	3.15	2.81	5.55	4.96
.88	.79	1.36	1.21	3.20	2.86	5.60	5.00
.89	.80	1.37	1.22	3.25	2.90	5.65	5.04
.90	.80	1.38	1.23	3.30	2.95	5.70	5.09
.91	.81	1.39	1.24	3.35	2.99	5.75	5.13
.92	.82	1.40	1.25	3.40	3.04	5.80	5.18
.93	.83	1.41	1.26	3.45	3.08	5.85	5.22
.94	.84	1.42	1.27	3.50	3.13	5.90	5.27
.95	.85	1.33	1.28	3.55	3.17	5.95	5.31
.96	.86	1.44	1.29	3.60	3.21	6.00	5.36
.97	.87	1.45	1.29	3.65	3.26		

#### FURNACE SHIPMENTS.

Ore Forwarded to Furnaces From Lake Erie Docks, May 1-Dec. 1

Year	Gross tons	Year	Gross tons
1918 .....	43,349,912	1915 .....	35,149,412
1917 .....	43,258,742	1914 .....	22,914,887
1916 .....	44,982,917	1913 .....	35,747,800

MISCELLANEOUS

SHIP LOSS DURING WAR

London reports that the world's total losses of merchant tonnage from the beginning of the war to the end of October, 1918, by enemy action and marine risk, were 15,053,786 gross tons. During the same period vessels totaling 10,849,527 gross tons were constructed and enemy tonnage totaling 2,392,675 tons was captured; making a net loss of tonnage during the war of 1,811,584 tons.

During the war 2475 British ships were sunk with their crews, and 3147 vessels were sunk and their crews left adrift. Fishing vessels to the number of 670 were lost during the period of hostilities and the merchant marine service suffered casualties exceeding 15,000 men.

British merchant tonnage losses were 9,031,828 gross tons. New construction in the United Kingdom in the same period was 4,342,296 tons; purchases abroad were 530,000 tons, and enemy tonnage captured was 716,520 tons. The net loss was 3,443,012 tons.

The appended table shows, in net tons, the iron ore, coal and grain movements during the past six years and the stone movement during the past three years; stone has been added to this record of lake commerce for the first time:

Year	Iron ore, gross tons	Coal, net tons	Grain of various kinds net tons	Stone, net tons	Total, net tons
1913....	49,070,478	33,362,379	11,697,160	.....	100,018,464
1914....	32,021,897	27,281,228	9,793,850	.....	72,939,603
1915....	46,318,804	26,220,000	11,098,815	3,854,106	93,049,981
1916....	64,734,198	28,440,483	10,555,975	5,553,927	117,052,686
1917....	62,498,901	31,192,613	7,161,716	6,748,801	115,100,399
1918....	61,156,732	32,102,022	6,548,686	7,467,776	114,614,018

AVERAGE ORE CARGO

Year	Gross tons	Year	Gross tons
1918 .....	8371	1907 .....	7516
1917 .....	8231	1906 .....	6973
1916 .....	7080	1905 .....	6101
1915 .....	6841	1904 .....	5272

1914 .....	6523	1903 .....	5668
1913 .....	6411	1902 .....	4899
1912 .....	6244	1901 .....	4459
1911 .....	5716	1900 .....	3783
1910 .....	5593	1899 .....	3803
1909 .....	7777	1898 .....	3517
1908 .....	8325	1897 .....	3556

D. M. & N. docks only up to 1910.  
All docks 1910-1918.

BUFFALO GRAIN RECEIPTS.

	1918	1916
Flour, bbls. ....	6,607,997	6,957,432
Wheat, bu. ....	68,267,376	138,668,781
Corn, bu. ....	2,027,920	3,527,207
Oats, bu. ....	13,544,256	22,036,301
Barley, bu. ....	3,244,636	11,709,053
Rye, bu. ....	7,992,097	1,477,346
Total, bu. ....	95,066,284	177,418,688
Flour to wheat, bu. ....	33,039,985	34,787,160
Flaxseed, bu. ....	2,956,409	9,564,147
Grand total, bu. ....	131,065,678	221,769,995

COAL SHIPMENTS.

Betuminous Coal Shipments from Lake Erie Ports, 1918.

Port.	Tons.
Toledo .....	10,074,787
Sandusky .....	2,389,150
Huron .....	2,094,324
Lorain .....	3,342,681
Cleveland .....	3,217,801
Fairport .....	271,148
Ashtabula .....	3,405,365
Conneaut .....	2,212,947
Erie .....	1,145,114
Total .....	28,153,317

MISCELLANEOUS

CONTRACT COAL RATES 1900-1917

Year	Lake Erie Ports to Duluth & Superior	Lake Erie Ports to Lake Michigan
1900	50c	60c
1901	35c	50c
1902	35c	45c
1903	40c	50c
1904	35c	45c
1905	30c	40c
1906	30c	40c
1907	30c	40c
1908	30c	40c
1909	30c	
1910	30c	35c
1911	30c	30c
1912	30c	30c
1913	30c	35c
1914	30c	30c
1915	30c	30c
1916	30c	30c
1917	42.5c	50c
1918	48c	55c

BOATS THAT HAVE BEEN LENGTHENED

Str.	Boat Name	Length	Year
Str.	Alberta (Can.)	42 feet	1911
"	America	28 "	1911
"	Athabasca (Can.)	36 "	1910
"	Bellville (Can.)	25 "	1905
"	Brown, Fayette		1896
"	Castalia	72 "	1905
"	Chippewa	21 "	1910
"	City of Bangor	72 "	1905
"	City of Chicago	28 "	1905
"	City of Buffalo	64 "	1904
"	Columbia	30 "	1911
"	Crowe, Geo. R. (Can.)	72 "	1910
"	Curry, S. S.	72 "	1905
"	Dahlke, H.	10 "	1911
"	Grammer, G. J.	72 "	1905
"	Hoyt, James H.	48 "	1910
"	Huronic	60 "	1915
"	Indiana	22 "	1915
"	Inland (Shortened)	80 "	1914
"	Islander	24 "	1912

Str.	Lakeside	20 feet	1905
"	Lewiston	20 "	1897
"	Masaba (Shortened)	52 "	1912
"	Orr, Arthur	48 "	1899
"	Penobscot	96 "	1906
"	Puritan	40 "	1907
"	Republic	72 "	1904
"	Spokane	60 "	1892
"	Victory	72 "	1905
"	Waldo, L. C.	72 "	1905
"	Wyandotte	60 "	1910
Bge.	Constitution	72 "	1905

WEIGHTS OF DIFFERENT WOODS IN BOARD MEASURE

Estimate on 1,000 feet of Dry Lumber

	Lbs.		Lbs.
White Oak	3,863	White Pine	2,100
Red Oak	3,396	Yellow Pine, short leaf	2,826
Black Walnut	3,176	Yellow Pine, long leaf	3,800
White Walnut	2,121	Cypress	2,300
Cherry	3,023	Redwood	2,185
Ash	3,400	Gum	3,070
Black Birch	3,131	Dry Lath	502
Beech	3,641	Cedar Shingles	203
Yellow Poplar	2,197	Pine Shingles	248
Maple	2,782	Norway 6 inch fencing	6,900
Hickory	4,349	White Pine fencing	2,500
White Ash	3,000	White Pine 5/8 ceiling	1,120
Whitewood	2,197	Piece Stuff, pine	2,560
Basswood	2,350	Norway Pine 7/8 floor	2,375
Rock Elm	3,613	White Pine 7/8 floor	1,900
Norway Pine	2,521		

## A FEW HISTORICAL FACTS AND THE CANALS

The St. Lawrence river was discovered by the explorer Aubert in 1508. The French explorer Jacques Cartier ascended the St. Lawrence river as far as the Indian village of Hochelaga (now Montreal) in 1534.

Lake Huron was the first of the Great Lakes to be discovered. In 1615 the French explorers LeCaron and Champlain both discovered Lake Huron but in separate parties. Both explorers came up the St. Lawrence as far as Montreal and then up the Ottawa river. They then took different routes across the country to Georgian Bay and into Lake Huron. The exploring parties met in the Lake Huron region and joined forces. Lake Ontario was discovered the same year on the return trip.

Lake Erie was the last of the lakes to be discovered. Joliet discovered Lake Erie in 1669.

Lake Superior was discovered in 1629 by the French explorer Brule.

Lake Michigan was discovered in 1634 by the French explorer Nicolet.

The first recorded passage of the Detroit river by white men was in 1670 by two French priests.

The first white man to see the Niagara Falls is supposed to have been the explorer Brule.

The French explorer La Salle built the first vessel on the Great Lakes in 1679. This little vessel, the "Griffon," is described on another page.

The first American vessel to be built on the Great Lakes was the "Washington," built at Erie (then Presque Isle) in 1797.

In 1812 a vessel called the "Fur Trader" was built on Lake Superior and after being used in the fur business for a while she was run over the rapids at the Soo in the attempt to get her to the lower lakes. But she was almost completely wrecked in the attempt. Another little vessel, the "Mink," was run over the rapids in 1817 and sustained but little damage.

A 96-ton brig was built for service on Lake Erie in 1814, but was soon laid up as being too big to successfully do business on the Lakes.

The first steamer built on the Great Lakes was the "Ontario" built at Sacketts Harbor in 1816. She was a vessel of 232 tons. The Canadian steamer "Frontenac" was built during the same

year. But the first steamer built on Lake Erie, for up-lake service, was the "Walk-in-the-Water," built at Buffalo in 1818. This steamer is described on another page.

In 1826 the first steamer sailed on Lake Michigan.

Regular passenger service was established to Chicago in 1830.

In 1836 the first shipment came into Buffalo when the brig "John Kenzie" brought in 3,000 bushels of wheat.

The first steamers from Buffalo ventured only as far as Detroit.

The first locomotive used in Chicago was carried there in a sail vessel in 1837.

The first grain elevator was built at Buffalo in 1842.

The first steamer to use propellers instead of paddle wheels was the "Vandalia" built at Oswego in 1841.

The first steamer on Lake Superior was the "Independence" in 1845. The "Independence" came from Chicago and was portaged around the Soo rapids.

### THE FIRST SHIP ON THE GREAT LAKES

The first known ship to navigate the Great Lakes was the "Griffon," a little vessel of about sixty tons, built in 1679 by the French explorer, La Salle. This ship was launched into the Niagara river about the present site of the village of La Salle. On August 7, 1679, the "Griffon," loaded with supplies for a long trip of exploration, sailed up the lakes. Very little is recorded of the trip but the supposition is that the north shore of Lake Erie was followed until the entrance to the Detroit river was found, and on Lake Huron the west shore was followed to the Straits of Mackinac. Early in September the little ship had reached Green Bay. Here La Salle loaded her with furs that he purchased from the Indians, and ordered his captain to take her back to Lake Erie. La Salle did not accompany the ship but with part of his men he started overland on his trip of exploration. The "Griffon" was never heard from afterwards, no doubt having foundered in a gale with her entire crew.

### THE FIRST STEAMER ON THE GREAT LAKES

The steamer "Walk-in-the-Water," built in Buffalo in 1818, is generally spoken of as the first steamer to sail the Great Lakes,

but, as a matter of fact, two steamers were built on Lake Ontario in 1816. These were the Canadian steamer "Frontenac" and the American steamer "Ontario." But these boats were not looked upon as the first Great Lakes steamers because their operations were confined to Lake Ontario. The "Walk-in-the-Water" measured 338 tons. The owners of this great steamboat thought none of the lake men would be capable of handling her and brought a master from the North river. This master promptly resigned his position after encountering one of Lake Erie's vicious sou'westers. A lake sailor was then placed in command. The "Walk-in-the-Water" was driven ashore in a gale on Lake Erie in 1821. Her engines were saved and placed into the steamer "Superior" in 1822.

#### THE GREAT LAKES

Total area of water surface—over 90,000 square miles.  
Over 5,000 miles of coast.

Combined area of Great Lakes exceeds the area of England, Wales and Scotland.

Lighted 200 American lighthouses.

Lighted 100 Canadian lighthouses.

Lighted 100 pairs of American ranges.

Lighted 30 pairs of Canadian ranges.

Lighted 65 American gas buoys.

Lighted 8 Canadian gas buoys.

Lighted 12 American light ships.

Lighted scores of float lights and beacons.

The United States lighthouse board places in position at the opening of navigation each spring 600 spar buoys and 60 can buoys and nun buoys.

There are 85 American fog signal stations on the lakes.

There are 18 Canadian fog signal stations on the lakes.

The United States Weather Bureau displays storm signals at 96 places on the Great Lakes.

The Canadians display storm signals at 31 places.

There are 60 American life saving stations.

There are 9 Canadian life saving stations.

Total length of the Great Lakes system—from the mouth of the St. Lawrence river to Duluth—2,384 miles.

From the east end of Lake Ontario to the west end of Lake Superior—1,150 miles.

From the east end of Lake Ontario to Chicago—1,050 miles.

Quebec to Duluth—1,560 miles; Quebec to Chicago—1,465 miles; Montreal to Duluth—1,400 miles; Montreal to Chicago—1,305 miles; Buffalo to Duluth—980 miles; Buffalo to Chicago—890 miles.

#### LAKE SUPERIOR

Largest expanse of fresh water in the world. The water of Lake Superior is chemically pure. Area 31,800 square miles; 1,500 miles coast. Greatest length, 350 miles; greatest breadth, 160 miles; greatest depth, 1,008 feet; 600 feet above the sea; about 21 feet above Lake Huron. Lighted by 56 lighthouses; has 22 fog signal stations. Has 8 life saving stations; 22 storm signal stations.

#### LAKE HURON

Area 23,200 square miles; 800 miles of coast; greatest length, 220 miles; greatest breadth, 100 miles; greatest depth, 750 feet; 580 feet above the sea; 9 feet above Lake Erie; lighted by 35 lighthouses; has 21 fog signal stations; 11 life saving stations; 32 storm signal stations.

#### LAKE MICHIGAN

Area 22,400 square miles; 1,200 miles of coast; greatest length, 310 miles; greatest breadth, 118 miles; greatest depth, 870 feet; 580 feet above the sea; 326 feet above Lake Ontario; lighted by 45 lighthouses; has 35 fog signal stations; 32 life saving stations; 30 storm signal stations.

#### LAKE ERIE

Area 9,932 square miles; 650 miles of coast; greatest length, 240 miles; greatest breadth, 57 miles; greatest depth, 210 feet; 572 feet above the sea; 326 feet above Lake Ontario; lighted by 45 lighthouses; has 12 fog signal stations; 9 life saving stations; 21 storm signal stations.

### LAKE ONTARIO

Smallest of the five Great Lakes; area, 7,240 square miles; nearly 500 miles of coast; greatest length, 190 miles; greatest breadth, 55 miles; greatest depth, 738 feet; 246 feet above the sea; lighted by 30 lighthouses; has 8 fog signal stations; 9 life saving stations; 20 storm signal stations.

### LAKE ST. CLAIR

Area 396 square miles; 100 miles of coast; greatest length, 27 miles; greatest breadth, 25 miles; depth, 24 feet; 576 feet above the sea; 3 feet above Lake Erie; 6 feet below Lake Huron. Previous to 1858 the channel entering Lake St. Clair was only 9½ feet deep. By 1871 it had been deepened to 13 feet, and by 1874 there was a channel 16 feet deep. It remained at this depth until 1887 when the work of deepening began again and it was completed to a depth of 21 feet.

### ST. MARY'S RIVER

Length, from Point Detour to Point Iroquois, 65 miles; length, from Point Detour to canal, 50 miles; length, from canal to Point Iroquois, 15 miles. With the present prevailing stage of water the least depth is 19 feet. By the old Lake George route the distance from Point Detour to Point Iroquois is 75 miles, and the depth, 15 feet. The present Hay lake channel was opened in 1894 and shortened the route from Detour to the Soo, 10 miles. The new route, known as the Neebish channel, was opened in 1908. This route leads to the westward of Neebish island and the plan is to use this channel for down bound boats and the present channel for up bound boats. Both channels will be the same from the canal down to Hay lake. They then branch off, one going on each side of Neebish island, and coming together again in Mud lake. The new west channel will not shorten the route from Detour to the Soo. The St. Joseph channel branches off from the Hay lake channel at the foot of Sugar island, just below the dike. This channel leads into the North channel.

The navigation of the St. Mary's river is governed by a strict set of rules and regulations.

The St. Mary's falls have a drop of 20 feet and are overcome

by the locks at the canal. These rapids are about a half mile wide and three-fourths of a mile long.

### THE ST. CLAIR RIVER

Length, Fort Gratiot to ship canal, 40 miles. The current in the rapids at Fort Gratiot is five miles an hour. The current entering the canal is about 1½ miles an hour; abreast of Port Huron, St. Clair and Marine City the current averages two miles an hour.

### DETROIT RIVER

Length, Lake St. Clair to Lake Erie, 28 miles. The current at the Limekiln Crossing averages about 2½ miles an hour while for the balance of the river the average current is about 1½ miles an hour.

### NIAGARA RIVER

Length, Lake Erie to Lake Ontario, 33 miles. Current at Buffalo, 4 to 7 miles an hour; current in whirlpool rapids, 30 miles an hour. The lower portion of the river, from Lake Ontario to Lewiston (7 miles) is from 30 to 70 feet deep. 280,000 cubic feet of water enters Niagara river from Lake Erie every second. The fall in Niagara river from Lake Erie to Lake Ontario, is 326 feet.

### ST. LAWRENCE RIVER

Length, from Lake Ontario to the Straits of Belle Isle, nearly 1,200 miles. There are many dangerous rapids in the St. Lawrence, all overcome by Canadian canals. From Lake Ontario to Quebec the drop is 249 feet. A boat passing through the St. Lawrence river, from Lake Ontario to the sea, would go through six canals with a total length of 45 miles. There are 21 locks in these canals and the total lift is 207½ feet. These canals are all between Lake Ontario and Montreal. From Montreal eastward to the Gulf of St. Lawrence, there is a channel for deep draft ocean going vessels. From Lake Ontario to Montreal the draft water is limited to 14 feet. Tidewater is reached about midway between Montreal and Quebec. Spring tide rises 18½ feet at Quebec. Salt water becomes noticeable about 30 miles below Quebec.

### NIAGARA FALLS

Height of American falls, 167 feet; height of Horseshoe falls,



158 feet; contour line of American falls, 1,060 feet; contour line of Horseshoe falls, 3,010 feet; average depth of river between the falls and rapids, 180 feet. The Horseshoe falls wears back about  $4\frac{1}{2}$  feet each year, in the center of the channel, and about 2 feet each year on the sides. The recession of the American falls is very slight. 15,000,000 cubic feet of water passes over both falls per minute.

#### THE SOO CANALS

The first canal was built on the Canadian side of the river by the North West Fur Company in 1798. The lock was 38 feet long, 8 feet 9 inches wide, with a lift of 9 feet. A tow path was made along the shore for oxen to pull the canoes and small boats through the upper part of the rapids. This lock was destroyed in 1814 by United States troops from Mackinac island.

The first ship canal, known as the State canal, was built on the American side of the river in 1855. There were two tandem locks each with a lift of 9 feet. These locks were 350 feet long, 70 feet wide, with a depth of  $11\frac{1}{2}$  feet. These locks were destroyed by excavations for the present Poe lock.

The Weitzel lock—the present old lock—was built in 1881, by the United States. The length of this lock is 515 feet, width 60 feet at the gates and 80 feet inside, and average depth of 14 feet 10 inches. The Poe lock was built in 1896. This lock is 800 feet long, 100 feet wide, and an average depth of 20 feet.

The Canadian lock is 900 feet long, 60 feet wide, 22 feet deep, and was built in 1895.

Hydraulic power is used for operating the American locks, and electricity, generated by water power, is used for operating the Canadian locks.

Before the State canal was opened in 1855, cargoes were unloaded at the Soo, below the rapids, then taken across the portage, one mile long, and reloaded aboard boats. In 1851 the total shipment of freight over this tramway portage was 12,600 tons.

The first year the canal was opened at the Soo, 1855, 14,500 tons of freight passed through. Ten years later, 1865, this had increased to 180,000 tons, in 1875 to 833,000 tons, in 1885 to 3,250,000 tons, in 1895 to 15,000,000 tons, and in 1905 to almost 45,000,000 tons.

Previous to 1881 the canal at the American Soo was under

the control of the State of Michigan and tolls were charged to cover operating expenses, the first rate being  $6\frac{1}{2}$  cents per registered ton, which was gradually reduced to  $2\frac{1}{2}$  cents.

The United States employs about 100 men in the operating of the canals at the Soo.

#### BLACK ROCK SHIP LOCK

The Black Rock ship lock, the largest inland water lock in the world undertaken as part of the river and harbor improvement of this city, has been completed. The lock will be put in service the latter part of next summer. The noncompletion of other improvements undertaken in connection with this work precludes the opening of the lock at the opening of navigation next year. The lock was constructed by the D'Olier Engineering Co. of Philadelphia at a cost of \$1,250,000.

The contract for the lock was let by the government in 1908 and construction was started the same year. The lock has a length of 650 feet and a width of 70 feet. It overcomes a five-foot lift and is one of the greatest engineering feats undertaken by the government on the Great Lakes. It is twenty-four feet deep and large enough to accommodate the largest of the lake freighters.

The five pairs of lock gates have a width of 37 feet and a depth of 32 feet. The free board of the gates is eight feet above the water line. The gates are of steel construction and will be operated by Niagara Falls electric power.

In preparing for construction of the lock the building of the largest cofferdam ever constructed was necessary. It was considerably larger than the one used in raising the Maine from Havana harbor. It was 947 feet long and 260 feet wide.

The lock is in the Black Rock harbor between Squaw island and the mainland. Its completion and the finishing of other harbor and river work will mean a twenty-three-foot channel from the Erie basin to Tonawanda. The lock will permit the passage of vessels from the Black Rock harbor into the Niagara river.

#### THE WELLAND CANAL

The Welland canal connects Lake Erie and Lake Ontario and overcomes the rapids of the Niagara river and Niagara Falls.

The length of this canal is  $26\frac{3}{4}$  miles. The total lift is  $326\frac{3}{4}$  feet and there are 25 locks, each 270 feet long and 45 feet wide, with 14 feet of water on the sills. Besides the regular lift locks there are two pairs of guard gates and one guard lock. There are no tolls of any kind. Vessels must not run more than 4 miles an hour through the canal reaches, except on the summit level where a greater speed is permitted. The first Welland canal had 40 wooden locks and was not cut through to Lake Erie. This canal led into the Welland river; from there vessels passed into the Niagara river just below Grand island and then came up the Niagara river to Lake Erie. The present Welland canal is the third one built. The Lake Ontario entrance is at Port Dalhousie and the Lake Erie entrance is at Port Colborne. The second canal built came into Lake Erie at Port Colborne and Port Maitland. The Lake Ontario entrance to the second or Old Canal is also at Port Dalhousie. The second or Old Canal connects with the third or Present Canal at Allanburgh, about 9 miles south of Port Dalhousie. It has 26 locks 150 feet long,  $26\frac{1}{2}$  feet wide with 10 feet of water on sills. It is now being used practically exclusively for water power purposes, and is not being navigated owing to the strong current. The "Feeder," which supplied the first and second canals with water from the Grand River above the dam at Dunnville is 19 miles long and joins with the present canal at Welland and has its Lake Erie entrance at Port Maitland with a branch running to Dunnville. Its locks are 150 feet long,  $26\frac{1}{2}$  feet wide and its navigable depth is 6 feet. It is open for navigation from sunrise to sunset.

The fourth canal, called the Welland Ship Canal, is now under construction. Its length will be 25 miles. The Lake Ontario entrance will be at Port Weller, about 3 miles east of Port Dalhousie. It will join the present canal at Allanburgh and follow the line of the present canal having Port Colborne also as its Lake Erie entrance. There will be 7 lift locks, each of  $46\frac{1}{2}$  feet lift. They will accommodate vessels 800 feet long, 80 feet wide and drawing 30 feet. The reaches between locks for the present will be made to accommodate vessels drawing 25 feet and will eventually be deepened to 30 feet when required. It is estimated the cost will be \$50,000,000.00, and it is expected it will be opened

for navigation about 1918. Mr. J. L. Weller, St. Catharines, is Engineer-in-charge.

### THE ERIE CANAL

The Erie canal is a free waterway. Most of the freighting on this canal has been done with canal boats. The length of the canal from Buffalo to Albany is 363 miles; the total lift is 568 feet. The work of construction commenced in 1817, and the canal was opened in 1825 at a cost of \$7,602,000.

The State of New York has appropriated \$101,000,000 to reconstruct this canal from Buffalo to Troy, a distance of 442 miles. The length of the new locks will be 328 feet, width 45 feet, depth of water on mitre sill 12 feet; there will be 35 new locks. Boats not to exceed 310 feet in length will be able to navigate the new canal; their carrying capacity will be about 2,700 to 3,000 tons, and will be operated by mechanical power; the headroom from under the bridges to the water will be 15 feet. It is anticipated that this canal will be ready for navigation about 1915.

### CHICAGO DRAINAGE CANAL

Length, 28 miles; from 160 to 290 feet wide; 22 feet deep. Connects Chicago with the Des Plaines river. Current figured at from  $1\frac{1}{4}$  to 2 miles an hour. After January 17, 1907, the bridges crossing this canal must go into service as movable; the canal will then be a free waterway. The main object in building this canal was to carry off the foul water of the Chicago river.

### ST. CLAIR FLATS CANAL

Built in 1871. Extends across the St. Clair Flats and into Lake St. Clair; consists of two dikes, each 7,200 feet long and with a channel between them 292 feet wide and 20 feet deep. There is also a new channel just completed (1906) on the west side of the west dike, the west dike therefore now being the dividing pier between the two channels. Upbound boats must take the east side, and downbound boats must take the west side. Without these piers a channel could not be kept open on account of the drifting sand.

**THE ST. LAWRENCE RIVER CANALS**

A boat coming from Montreal to Lake Ontario would have to pass through six canals and make 21 lockages. These locks would give a lift of 207½ feet. The total length of the six canals is 45 miles, and the length of the trip from Montreal to Lake Ontario is 182 miles. The first canal—the Lachine—begins right at the city of Montreal and the last canal—the Galops—is 7 miles below Ogdensburg. There is free sailing from Montreal eastward to the sea and westward from Ogdensburg to Lake Erie. The distance from Ogdensburg to Lake Ontario is 62 miles. The distance from Montreal to the mouth of the St. Lawrence river is 986 miles.

The names of the six Canadian canals are as follows, beginning at Montreal: The Lachine, the Soulanges, the Cornwall, Farrans Point, Rapide Plat, and Galops. These canals are built to accommodate boats 255 feet long, 42 feet beam and of 14 feet draft. But the new lock at the Farrans Point canal is built to take in a whole tow at one lockage, being 800 feet in length. The Galops lift lock is operated on Sunday; all the other canals are closed. A short description of these canals is given below:

**The Lachine Canal**

Length, 8½ miles; 5 locks; total lift, 45 feet; locks are 270 feet long and 45 feet wide; average depth of canal is 14 feet. This canal extends from Montreal to the town of Lachine, and overcomes the St. Louis rapids.

**The Soulanges Canal**

Length, 14 miles; 4 lift locks, 1 guard lock; total lift, 84 feet. Locks are 280 feet long and 45 feet wide. This canal overcomes the Cascade rapids, Cedar rapids and Coteau rapids.

**The Cornwall Canal**

Length, 14 miles; 6 locks; total lift, 48 feet. Locks are 270 feet long and 45 feet wide. This canal overcomes the Long Sault rapids, from the town of Cornwall to Dickenson's landing.

**Farrans Point Canal**

Length, 1 mile; 1 lock; total lift, 3½ feet. Lock is 800 feet long and 45 feet wide. The old lock is still in use and is 200

feet long and 45 feet wide, with a depth of 9 feet. This canal overcomes the Farrans Point rapids. Descending vessels use the rapids instead of the canal.

**Rapide Plat Canal**

Length, 3½ miles; 2 locks; total lift, 11½ feet. Locks are 270 feet long and 45 feet wide. This canal extends from Morrisburg to Flagg's bay and overcomes the rapids at that place. Descending vessels run the rapids.

**Galops Canal**

Length, 7½ miles; 3 locks; total lift, 15½ feet. Two locks are 270 feet long and 45 feet wide and one is 800 feet long and 45 feet wide. This canal overcomes the rapids at Point Iroquois, Point Cardinal and the Galops.

**CHICAGO TO THE MISSISSIPPI**

**Via the Illinois and Michigan Canal and the Illinois River**

Distance from Lake Michigan to the Mississippi river, 325 miles, as follows: 5 miles in the Chicago river, 97 miles in the Illinois and Michigan canal, and 223 miles in the Illinois river.

The Illinois and Michigan canal commences in the South Branch of the Chicago river. There are 15 lift locks and 1 guard lock. The canal was intended to be 60 feet wide at the water surface, 48 feet wide on the bottom, with locks 110 feet long, 18 feet wide and 6 feet deep. The canal is falling into decay. The deepest draft that can now be carried through is about 4½ feet. The longest boat that can now be accommodated in this canal is 100 feet.

**GREEN BAY TO THE MISSISSIPPI**

**Via the Fox and Wisconsin Rivers**

Distance from Green Bay to the Mississippi, 281 miles. From Green Bay to Portage, on the Wisconsin river, 163 miles. A draft of about 6 feet can be carried. From there to the Mississippi the navigation of the Wisconsin river is very difficult and the available channel is less than 3 feet. But the navigation from Green Bay to Menasha, Oskosh, and to Portage City is good. The total lift is about 200 feet, overcome by 26 locks, suitable for boats 140 feet long, 34 feet beam and over 6 feet draft.

**THE OSWEGO CANAL**

This canal has a capacity for boats 98 feet long, 17 feet 10 inches beam, and 6 feet draft. Connects Oswego with Syracuse and leads into the main line of the Erie canal.

**DES JARDINS CANAL**

Connects Burlington Bay with Dudas. This canal is fast falling into decay and is used only by small boats. The length is 4 miles, width 50 feet, and original depth was 7 feet, but has now only 4 feet depth. No locks.

**MURRAY CANAL, ONT.**

Connects the Bay of Quinte with Presque Isle Bay. Length 6½ miles. No locks. It is 80 feet wide at bottom, 120 feet at water surface, and 11 feet deep at low stage of water. Tolls are collected.

**RIDEAU CANAL, ONT.**

Connects the Ottawa river at the city of Ottawa with the eastern end of Lake Ontario at Kingston. Length of navigation waters, 126 miles. Number of locks going from Ottawa to Kingston, 35 ascending, 14 descending, making a total of 49 locks. Going from Ottawa, the lift is 282 feet, then a drop of 164 feet.

Length of locks 134 feet, width 33 feet, depth 5 feet. The depth of the canal is 4½ feet.

**THE MIAMI AND ERIE CANAL**

Length, 245 miles; extends from Toledo to Cincinnati, enters Swan creek at Toledo, 1½ miles above its mouth. Toledo to

Junction, top width 60 feet, bottom width 46 feet, depth 6 feet. Junction to Dayton, top width 50 feet, bottom width 36 feet, depth 5 feet. Dayton to Cincinnati, top width 40 feet, bottom width 26 feet, depth 4 feet. Total number of locks 105. Locks 90 feet long, 15 feet wide. Total lift from Toledo to Cincinnati, 374 feet.

**THE OHIO STATE CANAL**

The Ohio canal, which connects with the Cuyahoga river 4¾ miles above the lake, no longer affords an outlet to the Ohio river. It is navigable, however, for boats 90 feet long by 14 feet wide, drawing 4 feet or less, to Newcastle, Ohio, 97 miles from Cleveland. Originally this canal connected Lake Erie with the Ohio river, with Cleveland at one end and Portsmouth at the other end. The length was 309 miles. There were 144 locks, each with a length of 90 feet and a width of 14 feet and a depth of 4 feet.

**ABOUT CANALS**

Vessels of not over 8 feet draft, when coming up the Niagara river to Buffalo can overcome the rapids at Buffalo by taking the ship lock at Black Rock. This leads into Black Rock harbor and thence to Buffalo harbor. This lock is 200 feet long and 36 feet wide.

Work is now in progress to enlarge and improve the Erie canal so that it will have a capacity for barges of 1,000 tons, with a draft of 12 feet. The estimated cost of the improvement is \$101,000,000. Vessels using this canal will have no spars or high upper works, as the bridges will remain fixed.

DAILY WAGE TABLE.

	\$190.00	\$170.00	\$155.00	\$140.00	\$125.00	\$110.00	\$100.00	\$85.00	\$80.00	\$75.00	\$70.00
1/2	3.17	2.83	2.58	2.33	2.08	1.83	1.67	1.42	1.33	1.25	1.17
1	6.33	5.67	5.17	4.67	4.17	3.67	3.33	2.83	2.67	2.50	2.33
2	12.67	11.33	10.33	9.33	8.33	7.33	6.67	5.67	5.33	5.00	4.67
3	19.00	17.00	15.50	14.00	12.50	11.00	10.00	8.50	8.00	7.50	7.00
4	25.33	22.67	20.67	18.67	16.67	14.67	13.33	11.33	10.67	10.00	9.33
5	31.67	28.33	25.83	23.33	20.83	18.33	16.67	14.17	13.33	12.50	11.67
6	38.00	34.00	31.00	28.00	25.00	22.00	20.00	17.00	16.00	15.00	14.00
7	44.33	39.67	36.17	32.67	29.17	25.67	23.33	19.83	18.67	17.50	16.33
8	50.67	45.33	41.33	37.33	33.33	29.33	26.67	22.67	21.33	20.00	18.67
9	57.00	51.00	46.50	42.00	37.50	33.00	30.00	25.50	24.00	22.50	21.00
10	63.33	56.67	51.67	46.67	41.67	36.67	33.33	28.33	26.67	25.00	23.33
11	69.67	62.33	56.83	51.33	45.83	40.33	36.67	31.17	29.33	27.50	25.67
12	76.00	68.00	62.00	56.00	50.00	44.00	40.00	34.00	32.00	30.00	28.00
13	82.33	73.67	67.17	60.67	54.17	47.67	43.33	36.83	34.67	32.50	30.33
14	88.67	79.33	72.33	65.33	58.33	51.33	46.67	39.67	37.33	35.00	32.67
15	95.00	85.00	77.50	70.00	62.50	55.00	50.00	42.50	40.00	37.50	35.00
16	101.33	90.67	82.67	74.67	66.67	58.67	53.33	45.33	42.67	40.00	37.33
17	107.67	96.33	87.83	79.33	70.83	62.33	56.67	48.17	45.33	42.50	39.67
18	114.00	102.00	93.00	84.00	75.00	66.00	60.00	51.00	48.00	45.00	42.00
19	120.33	107.67	98.17	88.67	79.17	69.67	63.33	53.83	50.67	47.50	44.33
20	126.67	113.33	103.33	93.33	83.33	73.33	66.67	56.67	53.33	50.00	46.67
21	133.00	119.00	108.50	98.00	87.50	77.00	70.00	59.50	56.00	52.50	49.00
22	139.33	124.67	113.67	102.67	91.67	80.67	73.33	62.33	58.67	55.00	51.33
23	145.67	130.33	118.83	107.33	95.83	84.33	76.67	65.17	61.33	57.50	53.67
24	152.00	136.00	124.00	112.00	100.00	88.00	80.00	68.00	64.00	60.00	56.00
25	158.33	141.67	129.17	116.67	104.17	91.67	83.33	70.83	66.67	62.50	58.33
26	164.67	147.33	134.33	121.33	108.33	95.33	86.67	73.67	69.33	65.00	60.67
27	171.00	153.00	139.50	126.00	112.50	99.00	90.00	76.50	72.00	67.50	63.00
28	177.33	158.67	144.67	130.67	116.67	102.67	93.33	79.33	74.67	70.00	65.33
29	183.67	164.33	149.83	135.33	120.83	106.33	96.67	82.17	77.33	72.50	67.67
30	190.00	170.00	155.00	140.00	125.00	110.00	100.00	85.00	80.00	75.00	70.00

SCALE OF WAGES

Days	\$67.50	\$65.00	\$62.50	\$60.00	57.50	\$55.00	\$50.00	\$45.00	\$40.00	\$35.00	\$31.50	\$30.00
1/2	1.13	1.08	1.04	1.00	.96	.92	.83	.75	.67	.58	.53	.50
1	2.25	2.17	2.08	2.00	1.92	1.83	1.67	1.50	1.33	1.17	1.05	1.00
2	4.50	4.33	4.17	4.00	3.83	3.67	3.33	3.00	2.67	2.33	2.10	2.00
3	6.75	6.50	6.25	6.00	5.75	5.50	5.00	4.50	4.00	3.50	3.15	3.00
4	9.00	8.67	8.33	8.00	7.67	7.33	6.67	6.00	5.33	4.67	4.20	4.00
5	11.25	10.83	10.42	10.00	9.58	9.17	8.33	7.50	6.67	5.83	5.25	5.00
6	13.50	13.00	12.50	12.00	11.50	11.00	10.00	9.00	8.00	7.00	6.30	6.00
7	15.75	15.17	14.58	14.00	13.42	12.83	11.67	10.50	9.33	8.17	7.35	7.00
8	18.00	17.33	16.67	16.00	15.33	14.67	13.33	12.00	10.67	9.33	8.40	8.00
9	20.25	19.50	18.75	18.00	17.25	16.50	15.00	13.50	12.00	10.50	9.45	9.00
10	22.50	21.67	20.83	20.00	19.17	18.33	16.67	15.00	13.33	11.67	10.50	10.00
11	24.75	23.83	22.92	22.00	21.08	20.17	18.33	16.50	14.67	12.83	11.55	11.00
12	27.00	26.00	25.00	24.00	23.00	22.00	20.00	18.00	16.00	14.00	12.60	12.00
13	29.25	28.17	27.08	26.00	24.92	23.83	21.67	19.50	17.33	15.17	13.65	13.00
14	31.50	30.33	29.17	28.00	26.83	25.67	23.33	21.00	18.67	16.33	14.70	14.00
15	33.75	32.50	31.25	30.00	28.75	27.50	25.00	22.50	20.00	17.50	15.75	15.00
16	36.00	34.67	33.33	32.00	30.67	29.33	26.67	24.00	21.33	18.67	16.80	16.00
17	38.25	36.83	35.42	34.00	32.58	31.17	28.33	25.50	22.67	19.83	17.85	17.00
18	40.50	39.00	37.50	36.00	34.50	33.00	30.00	27.00	24.00	21.00	18.90	18.00
19	42.75	41.17	39.58	38.00	36.42	34.83	31.67	28.50	25.33	22.17	19.95	19.00
20	45.00	43.33	41.67	40.00	38.33	36.67	33.33	30.00	26.67	23.33	21.00	20.00
21	47.25	45.50	43.75	42.00	40.25	38.50	35.00	31.50	28.00	24.50	22.05	21.00
22	49.50	47.67	45.83	44.00	42.17	40.33	36.67	33.00	29.33	25.67	23.10	22.00
23	51.75	49.83	47.92	46.00	44.08	42.17	38.33	34.50	30.67	26.83	24.15	23.00
24	54.00	52.00	50.00	48.00	46.00	44.00	40.00	36.00	32.00	28.00	25.20	24.00
25	56.25	54.17	52.08	50.00	47.92	45.83	41.67	37.50	33.33	29.17	26.25	25.00
26	58.50	56.33	54.17	52.00	49.83	47.67	43.33	39.00	34.67	30.33	27.30	26.00
27	60.75	58.50	56.25	54.00	51.75	49.50	45.00	40.50	36.00	31.50	28.35	27.00
28	63.00	60.67	58.33	56.00	53.67	51.33	46.67	42.00	37.33	32.67	29.40	28.00
29	65.25	62.83	60.42	58.00	55.58	53.17	48.33	43.50	38.67	33.83	30.45	29.00
30	67.50	65.00	62.50	60.00	57.50	55.00	50.00	45.00	40.00	35.00	31.50	30.00



**ERIE R. R. CO'S NEW CAR DUMP, CLEVELAND.**  
Built by the Wellman Seaver-Morgan Co., Cleveland, O., and operated by The Pittsburg Coal Co.

## COAL DOCKS OF THE GREAT LAKES

### ALGOMA, WIS.

#### Algoma Fuel Co.—

First Dock on North Side.

Two Rigs.

½ ton buckets used.

Capacity 500 to 600 tons per day.

Storage capacity 2,500 tons anthracite.

Use only 4,000 tons bituminous.

Draft of water 12 to 14 feet.

Maximum length boat can handle at dock, 300 foot.

Supt. H. Grimm.

### ALGONAC, MICH.

#### A. M. Smith—

One Steam Hoist.

Two Whips.

Capacity per day 250 tons.

Storage capacity 3,000 tons.

Draft of water 20 feet.

Can handle boats of any length.

#### City Dock—

Capacity per day 150 tons.

### ALPENA, MICH.

#### Alpena Coal Co.—

Operator, John Monaghan.

One Whirley with 1 ton clam shell & ¾ ton buckets.

Capacity per day 300 tons.

Storage capacity 3,000 tons.

Draft of water 15 feet.

Can handle 450 foot boats.

Supt. Thomas P. Monaghan.

#### Alpena Cement Co.—

Capacity per day 250 tons.

#### Bedford & Co., M. N.—

Two McMylers.

Size of clam shell used ¾ ton.

Ton and ½ ton buckets used.

Capacity per day 600 tons.

Storage capacity 10,000 tons.

Depth of water 15 feet.

Can handle boats of any length.

Have fast facilities for fueling boats.

Supt. J. L. Reed.

#### Fletcher Paper Co.—

Two Hoists.

Use ½ ton clam shells.

Capacity per day 600 tons.

Storage capacity 10,000 tons.

Depth of water 15 feet.

Maximum length of boat 370 feet.

### AMHERSTBURG, ONT.

#### Mullen Coal Co.—

Lower end of Detroit River.

One derrick.

One ton clam shell used.

Capacity per 10 hours 600 tons.

Storage capacity 2,500 tons.

Depth of water at dock 20 feet.

Supt. Duerson Gatfield.

### ASHLAND, WIS.

#### Clarkson Coal & Dock Co.—

St. Paul, Minn.

Between C. & N. W. & Soo Ore Docks.

Four Whirlies.

3 2 ton clam shells used.

1 ton buckets used.

Capacity per 10 hours on large boats 2,000 tons; small boats 1,500 tons.

Dock operates day and night.

Storage capacity 100,000 tons.

Depth of water eighteen feet and six inches.

Maximum length of boat 620 feet.

R. R. connections, Soo, St. Paul, M. & O., C. & N. W., N. P.

Supt. Frank G. Johnson.

#### Pittsburgh & Ashland Coal & Dock Co.—

Four McMyler Whirlies.

Three 1 ton clams.  
 One 2 ton clam.  
 Other buckets used 1 ton.  
 Capacity per 10 hours 1,500 tons.  
 Operates night and day.  
 Storage capacity 150,000 tons.  
 Depth of water 19 feet 6 inches.  
 Maximum length of boat 440 feet.  
 R. R. connections, St. Paul, M. & O., Soo, N. P. & N. W.  
 Supt. Francis Hogan.

**Reiss Coal Co., C. (C. N. & W.)—**

Two Heyl & Patterson.  
 Size of clam shell used 8 ton.  
 Capacity per day 3,500 tons.  
 Dock operates day and night.  
 Storage capacity 90,000 tons.  
 Depth of water 18 feet.  
 Can handle any size boat.  
 R. R. connections N. W. Soo, N. P.—Omaha.  
 Supt. M. Schrank.

**Reiss Coal Co., C. (Soo Dock)—**

One Mead-Morrison tower.  
 1¼ tons buckets used.  
 Capacity per 10 hours 1,500 tons.  
 Work days only.  
 Storage capacity hard coal 6,000 tons.  
 Storage capacity soft coal 40,000 tons.  
 Depth of water 18 feet.  
 Can handle any size boat.  
 R. R. connections N. W. Soo, N. P.—Omaha.  
 Supt. M. Schrank.

**ASHTABULA HARBOR, OHIO**

**Lower Lake Dock Co.—**

Leader-News Bldg., Cleveland, Ohio.  
 McMyler Car Dump (West Side).  
 Supt. J. M. Amsden.

**Pittsburgh Coal Co. (Pennsylvania No. 11)—**  
 McMyler Car Dump (West Side).  
 Supt. Tom Kirby.

**Pittsburgh Coal Co. (Lake Shore No. 9)—**  
 McMyler Car Dump (East Side).  
 Supt. Robt. W. Dingee.

**Pickands-Mather & Co.—**  
 McMyler Car Dump (East Side).  
 Supt. E. O. Whitney.

**BAY CITY, MICH.**

**Central Coal Co.—**

One Industrial Hoist.  
 Size of clam shells used 2 ton.  
 Capacity per 10 hours 600 tons.  
 Storage capacity 12,000 tons.  
 Depth of water at dock 12 to 15 feet.  
 Railroad connections.  
 Supt. F. W. Braman.

**C. M. Clute—**

One Rig.  
 Size of buckets used 700 pounds.  
 Capacity per 10 hours 300 tons.  
 Storage capacity 4,000 tons.  
 Depth of water at dock 13 feet.  
 Can handle boats of any size.  
 Railroad connections:  
 Michigan Central.

**BEAVER ISLAND, MICH.**

**James McCann—**

Boat to do the hoisting.  
 Capacity about 250 tons.

**BELLEVILLE, ONT.**

**N. Allens Dock—**

One Steam Hoist.  
 Size of buckets used 400 pounds.  
 Capacity per 10 hours 250 ton.



COAL DOCKS OF THE GREAT LAKES—Continued

Storage capacity 4,000 tons.  
Depth of water at dock 11 feet.  
Supt. N. Allen.

**F. S. Anderson Co.—**

One Steam Hoist.  
Size of buckets used 400 pounds.  
Capacity per 10 hours 200 tons.  
Storage capacity 2,500 tons.  
Depth of water at dock 10 feet.

**Downey Coal Co.—**

One Steam Hoist.  
Size of buckets used 400 pounds.  
Capacity per 10 hours 225 tons.  
Storage capacity 4,000 tons.  
Depth of water at dock 10 feet.

**Schuster Co.—**

One Steam Hoist.  
Size of buckets used 400 pounds.  
Capacity per 10 hours 225 tons.  
Storage capacity 5,000 tons.  
Depth of water at dock 11 feet.

**BIG TRAVERSE BAY, MICH. (See Mohawk, Mich.)**

**BLIND RIVER, ONT.**

**Eddy Brothers & Co., Ltd.—**

Boat to do the hoisting.  
Storage capacity 400 tons.  
Depth of water 12 feet 6 inches.  
Supt. J. R. Stover.

**Government Dock—**

W. H. McGauley operator.  
Unload with wheel barrows.  
2-3 oil barrels used for buckets.  
Capacity per 10 hours 150 tons.  
Depth of water at dock 16 feet.  
Maximum length boat 400 feet.

**BRUCE MINES, ONT.**

**Martin International Trap Rock Co.—**

Storage capacity 75,000 tons.  
2 Belt conveyors, 80 feet apart.  
Capacity per 10 hours, both conveyors, will be about 20,000 tons.  
Height of spout from water 45 feet.  
Height of dock from water 15 feet.  
Length of spout 15 feet.  
Length of dock 180 feet.  
Depth of water at the dock 21 feet.

**BUFFALO, N. Y.**

**Rest of Mining Co. (Salt Shippers)—**

Scranton, Pa.  
Salt loaded over Erie Trestle.

**Sterling Salt Co.—**

29 Broadway, N. Y. City.  
Loaded at W. J. Connors Dock & Basin.  
Depth of water at dock 13 feet.  
Capacity per day 300 tons.

**D. L. & W.—**

Coal trestle.  
Supt. G. W. Burke.

**Erie R. R.—**

Coal trestle.

**Lehigh Valley—**

Coal trestle, maximum beam of boat 54 feet, length 525.

**P. & R. Coal & Iron Co.—**

Coal trestle. Buffalo, N. Y.

**STEEL RAIL LOADING DOCKS**

**Lehigh Valley Dock—**

Two McMyler Whirlies.  
Work one boat at a time.  
Capacity per 24 hours 1,500 tons.  
Can load any length boat.

COAL DOCKS OF THE GREAT LAKES—Continued

Maximum beam of boat 52 feet.  
Depth of water at dock 19 feet.

**Lackawanna Steel Co.**

Two stationary rigs.  
Capacity per 24 hours 3,300 tons.  
Can load any length boat.

**BYNG INLET, ONT.**

**Canadian Pacific Railway—**

Two Mead-Morrison.  
Capacity per 10 hours 2,500 tons.

**CALCITE, PRESQUE ISLE CO., MICH.**

**Michigan Lime Stone & Chemical Co.—**

48 inch conveyor belt used for loading.  
Storage capacity 30,000 tons.  
Depth of water at docks 21 feet.

**CHARLEVOIX, MICH.**

**Charlevoix Coal & Wood Co.—**

Horses and Donkey Engine.  
Size of buckets used 300 pounds.  
Capacity per 10 hours 300 tons.  
Depth of water at dock 11 feet.  
Length of boat can reach dock 200 feet  
Supt. L. S. See.

**CHEBOYGAN, MICH.**

**Mackinac Straits Coal & Dock Co.—**

Three Lockport Whirlies.  
1 ton clam shells used.  
Capacity per 10 hours 1,200 tons.  
Storage capacity 40,000 tons.  
Depth of water at dock 12 feet.  
R. R. connections, M. C. & Detroit & Mackinaw.  
Supt. C. L. Marquette.

**Cheboygan Gas Co.—**

Horse Rigs.

Capacity per day 140 tons.  
Storage capacity 650 tons.  
Depth of water 9 feet.  
Supt. F. B. Spencer.

**McArthurs Dock (M. D. Olds, Prop.)—**

One Brown Hoist.  
1 ton clam shell used.  
1½ ton bucket used.  
Capacity per day 500 tons.  
Storage capacity 1,500 tons hard coal.  
Storage capacity 2,000 tons soft coal.  
Depth of water 16 feet.  
Maximum length of boat 300 feet.  
Supt. R. E. Matt.

**CHICAGO, ILL. (North Branch)**

(See South Chicago Also.)

**Consumers Co. (Consumers Bldg.)—**

Webster Ave. Bridge.  
North Branch.  
2 Mead-Morrison.  
Size of clam shells used 1 ton.  
Capacity per 10 hours 1500 tons.  
Storage capacity 35,000 tons.  
Depth of water at dock 18 feet.  
Can handle 350 foot boat.  
R. R. connections, St. Paul & C. & N. W.  
Supt. John Arndt, Jr.

**Eureka Coal and Dock Co. (1509 Cortland St.)—**

Cortland St. Bridge.  
Two Mead-Morrison.  
Size of clam shells, 1 ton.  
Capacity 1,500 tons per hour.  
Storage capacity 50,000 tons.  
Depth of water 20 feet.

COAL DOCKS OF THE GREAT LAKES—Continued

Maximum length of boat 300 feet.  
R. R. connections, all lines.  
Supt. A. T. Sivyer.

**Hedstrom & Co., E. L. (North Ave.)—**  
140 So. Dearborn St.  
Two Mead Hoists.  
One ton clam shells used.  
Capacity per day 2,000 tons.  
Storage capacity 30,000 tons.  
Depth of water 18 feet 6 inches.  
Maximum length of boat 465 feet.  
Maximum beam of boat 54 feet.  
Supt. Wm. Rhodes.

**Lehigh Valley Coal Sales Co.—**  
332 So. Michigan Ave.  
Four Brown Hoists.  
1½ ton clam shell buckets used.  
Capacity per day 2,000 tons.  
Storage capacity 35,000 tons.  
Depth of water 20 feet.  
Maximum length of boat 408 feet  
Supt. A. Wallace.

**Lehigh Valley Coal Sales Co.—**  
332 So. Michigan Ave.  
Chicago Ave. Dock.  
Three Hoists.  
1½ ton buckets used.  
Capacity per day 2,000 tons.  
Depth of water 20 feet.  
Maximum length of boat 400 feet.  
Supt. A. Wallace.

**LIII-Robinson Coal Co.—**  
So. State St.  
Chester St.

Two Mead Hoists.  
1 ton clam shells used.  
Capacity per 10 hours soft coal 2,400 tons.  
Capacity per 10 hours hard coal 3,000 tons  
Storage capacity 45,000 tons.  
Depth of water 20 feet.  
Maximum length of boat 325 feet.  
Supt. W. W. Lill.

**Philadelphia & Reading Coal & Iron Co.—**  
37 W. Van Buren St.  
N. Halsted St.  
Three Old Style Rigs.  
Capacity per 10 hours 800 tons

**Pittsburgh Coal Co. (Fuel Dock)—**  
37 W. Vanburen St.  
North Pier Dock.  
Two McMyler Whirlies.  
1½ ton clams used.  
One ton buckets used.  
Capacity per 10 hours 1,000 tons.  
Depth of water 20 feet.  
Maximum length of boat 400 feet.  
Supt. A. J. Hitchcock.

**Richardson Coal Co., O. S.—**  
203 So. Dearborn St.  
North Branch, "Elston Avenue Dock."  
Three Mead-Morrison.  
1¼ ton clam shells used.  
Capacity per 10 hours 3,500 tons.  
Depth of water at dock 22 feet.  
Storage capacity 100,000 tons.  
Maximum length of boat 580 feet.  
R. R. connections, C. & N. W.

**Scheunemann & Co., O. F.—**  
1074 W. Division St.

COAL DOCKS OF THE GREAT LAKES—Continued

Division St.  
Three Old Style Rigs.  
Capacity per 10 hours 750 tons.

**Schenck Co., S. C. (D. L. & W.)—**

37 W. Vanburen St.  
Division St.—Goose Island.  
Two Mead Hoists.  
1 ton clam shells used.  
Capacity per 10 hours 2,500 tons.  
Storage capacity 55,000 tons.  
Depth of water 19 feet.  
Maximum length of boat 500 feet.  
R. R. connections, C. M. & St. P. to all roads.  
Supt. J. C. Karman.

**SOUTH BRANCH. (Chicago River)**

**Philadelphia & Reading Coal & Iron Co.—**

37 W. Vanburen St.  
Canal and Lumber Sts.  
Three Hoists.  
Capacity per 10 hours 750 tons.

**Schenck Co., S. C. (D. L. & W.)—**

37 W. Vanburen St.  
35th St. Dock.  
Two Mead Hoists.  
1 ton clam shells used.  
Capacity per 10 hours 2,500 tons.  
Storage capacity 100,000 tons.  
Depth of water 18 feet 6 inches.  
Can handle boats of any length.  
Maximum beam of boat 52 feet.  
R. R. connections, all roads into Chicago.  
Supt. Hugh P. Moran.

**CHICOUTIMI, QUEBEC.**

**Price Brothers & Co., Ltd.—**

Saguenay River.  
Two Brown Hoists.

— ton clam shells used.  
Capacity per 10 hours 600 tons.  
Depth of water at dock 15 feet.  
Maximum length of boat 250 feet.  
Supt. J. McD. Grosart.

**CLEVELAND, OHIO**

**Pittsburgh Coal Co. (Cuddy-Mullen)—**

McMyler Car Dump, 1st Machine.  
Supt. A. A. Wedow.

**Ellsworth & Co., J. W.—**

McMyler Car Dump, 2d Machine.  
Supt. P. Gallagher.

**East Pier Dock Co.—**

J. W. Ellsworth & Co.  
Two McMylers.  
Size of buckets used 1½ ton.  
Capacity per 10 hours 600 tons.  
Depth of water at dock 20 feet.  
Supt. P. Gallagher.

**Pennsylvania—**

McMyler Car Dump, 3d Machine.  
Supt. P. Gallagher.

**Pittsburgh Coal Co. (Irishtown)—**

Wellman-Seaver Car Dump (Above Viaduct).  
Supt. Mike McCarthy.

**Pittsburgh Coal Co. (West Side Fuel Dock)—**

Supt W. P. Bennett.

**W. & L. E.—**

McMyler Car Dump (Above Erie R. R. Bridge).

**COLLINGWOOD, ONT.**

**Collingwood Packing Co.—**

West Side of the Harbor.  
One Steam Hoist.  
Capacity per 10 hours 400 tons.  
Storage capacity 4,000 tons.

COAL DOCKS OF THE GREAT LAKES—Continued

Depth of water at dock 16 feet.  
Length of boat can reach dock 400 feet.  
Supt. John Bannan.

**Collingwood Ship Building Co., Ltd.—**

One Steam Hoist.  
Size of buckets used  $\frac{1}{4}$  ton.  
Capacity per 10 hours 300 tons.  
Storage capacity 5,000 tons.  
Depth of water at dock 16 feet.  
Can handle boats of any length.

**Northern Navigation Co.—**

One Steam Hoist.  
Capacity 400 tons.

**COURTRIGHT, ONT.**

**Western Salt Co., Ltd.—**

One-half mile below Courtright.  
One Whirley.  
1 ton clam shell used.  
1 ton bucket used.  
Capacity per 10 hours 450 tons.  
Storage capacity 15,000 tons.  
Depth of water at dock 19 feet.  
Maximum length of boat 300 feet.  
Supt. W. A. Leach.

**DE PERE, WIS.**

**American Writing Paper Co.—**

Rigs taken down.  
Storage capacity 12,000 tons.  
Depth of water 15 feet.  
Maximum length of boat 500 feet.  
R. R. connections, C. & N. W.  
Supt. J. S. Gittins.

**De Pere Co-Operative Coal Co.—**

Two Figure 4 hoists.  
 $\frac{1}{2}$  ton bucket used.  
Capacity per day 500 tons.

Storage capacity 10,000 tons.  
Depth of water 15 feet.  
Maximum length of boat 250 feet.  
R. R. connections, C. N. W.—C. M. & St. P.  
Supt. H. Barlament.

**Wells Co., A. G.—**

Two electric hoists.  
 $\frac{3}{4}$  ton clams used.  
 $\frac{3}{4}$  ton buckets used.  
Capacity per day hard coal 900 tons.  
Capacity per day soft coal 500 tons.  
Storage capacity hard coal 7,000 tons.  
Storage capacity soft coal 8,000 tons.  
Depth of water 15 feet.  
Maximum length of boat 300 feet.  
R. R. connections, C. M. & St. P. & C. & N. W.  
Foreman, W. S. Altmayer.

**DEPOT HARBOR, ONT.**

**Grand Trunk Ry. Co.—**

One Hunt Tower.  
 $\frac{3}{4}$  ton bucket used.  
One Rig with 1 ton clam.  
Capacity per 10 hours 1,300 tons.  
Storage capacity 75,000 tons.  
Depth of water 21 feet.  
Maximum length of boat 500 feet.  
A. J. Brett, Agent.

**DETOUR, MICH.**

**Detour Dock Co.—**

Pickands-Mather & Co., Cleveland, Ohio.  
Two McMyler Whirlies.  
2 ton clam shells used.  
Capacity per 10 hours 2,500 tons.  
Storage capacity 15,000 tons.  
16 pockets, capacity 2,000 tons.  
Depth of water at dock 23 feet.

COAL DOCKS OF THE GREAT LAKES—Continued

Can handle boats of any length.  
Fuel dock exclusively.  
W. H. Lewis, Agent.

**Valley Camp Fuel Dock—**

One McMyler.  
One ton buckets used.  
Depth of water 21 feet.  
Maximum length of boat 600 feet.  
Fueling dock only.

**DESERONTO, ONT.**

**Canada Cement Co., Ltd.—**

One Rig.  
One ton buckets used.  
Capacity per 10 hours 600 tons.  
Depth of water at dock 14 feet.  
Can handle boats of any length.  
Supt. Elmor French.

**Rathbun Co.—**

One Hunt Hoist.  
 $\frac{1}{2}$  ton buckets used.  
Capacity per 10 hours 300 tons.  
Depth of water at dock 12 feet.  
Supt. H. B. Sherwood, Napanee, Ont.

**DETROIT, MICH.**

**United Fuel & Supply Co. (Formerly Stanley B. Smith & Co.)—**

12 Overhead pockets, 600 tons capacity.  
Fueling capacity 300 tons per hour.  
One Whirley.  
 $1\frac{1}{2}$  yard clam shell used.  
Capacity per 10 hours 700 tons.  
Depth of water at dock 25 feet.  
Mgr. J. M. McKerchey.  
Fueling station.

**Water Works—**

One Steam Hoist.

Depth of water 13 feet.  
Capacity per day 350 tons.

**DOLLAR BAY, MICH.**

**Lake Superior Smelting Co.—**

Three Steam Boom Hoists.  
Size of buckets used 700 pounds.  
Capacity per 10 hours 500 tons.  
Storage capacity 14,000 tons.  
Depth of water 18 feet.  
Maximum length of boat 300 feet.  
Supt. H. D. Conant.

**Tamarack Mining Co. (Union Dock)—**

Two Clam Shell Hoists.  
2 ton clam shells used.  
Four Brown Hoists.  
 $\frac{1}{2}$  ton buckets used.  
Capacity per 10 hours 3,000 tons.  
Storage capacity 125,000 tons.  
Depth of water 19 feet and 6 inches.  
Can handle boats of any length.  
R. R. connections, Mineral Range.  
Supt. Hugh Moore.

**Tamarack Osceola Copper Mfg. Co. (Wire Mill Dock)—**

Two Whirlies.  
 $\frac{1}{2}$  ton buckets used.  
Capacity per 10 hours 450 tons.  
Storage capacity 10,000 tons.  
Depth of water 20 feet.  
Can handle boats of any length.  
R. R. connections, Mineral Range.  
Supt. F. W. Foley.

**DULUTH, MINN.**

**Berwind Fuel Co. (Dock No. 2)—**

West Duluth Dock.  
Three Link Belt Co.  
Size of clam shells used 7 ton.

COAL DOCKS OF THE GREAT LAKES—Continued

Capacity per 10 hours 10,000 tons.

Storage capacity 500,000 tons.

Depth of water at dock 22 feet.

Can handle boats of any length.

R. R. connections, N. P., St. Paul, Soo & C. N., D. M. & N.,

D. & I. R., D. S. S. & A., Omaha, G. N.

Supt. W. K. Link.

**Boston Coal Dock & Wharf Co.—**

Two Brown Hoists.

1½ ton clams used.

1 ton buckets used.

Capacity 10 hours 2,000 tons.

Two Wellman-Seaver Rigs.

2 ton clams used.

1½ ton buckets used.

Capacity per 10 hours 3,600 tons.

Storage capacity 315,000 tons.

Storage capacity hard coal 35,000 tons.

Depth of water 20 feet.

Can handle boats of any length.

R. R. connections, N. P., St. Paul, Soo & C. N., D. M. & N.,

D. & I. R., D. S. S. & A., Omaha, G. N.

Supt. James Patten.

**Carnegie Dock & Fuel Co., Dock No. 2 (Bituminous)—**

Minneapolis, Minn.

Two Mead-Morrison.

6 ton clam shells used.

Capacity per 10 hours 5,000 tons.

Storage capacity 800,000 tons.

Can handle any size boat.

Depth of water about 21 feet.

R. R. Conn. N. P.

Supt. B. McNamara.

**Carnegie Dock & Fuel Co., Dock No. 2 (Anthracite)—**

Minneapolis, Minn.

Two Mead-Morrison.

3 ton clam shells used.

Capacity per 10 hours 5,000 tons.

Storage capacity 200,000 tons.

Depth of water about 22 feet.

R. R. connections, N. P., St. P., Soo, C. N., D. M. & N., D. &

I. R., D. S. S. & A., Omaha, G. N.

Supt. B. McNamara.

**Clarkson Coal & Dock Co.—**

St. Paul, Minn.

Rices Point, between Capital & Consolidated Elevators.

One Watson patent fast plant.

Size of clam shell used 3 ton.

Capacity per 10 hours 3,000 tons.

Four Brown Hoists.

Size of clam shells used 1 ton.

Size of buckets used 1 ton.

Capacity per 10 hours 2,000 tons.

Work days only.

Storage capacity 325,000 tons.

Depth of water at dock 20 feet.

Can handle any size boat.

R. R. connections, N. P., Soo, Omaha, G. N., C. N., St. Paul

D. & I. R., D. M. & N.

Supt. J. J. Davidson.

**Cutler & Co., D. G. (Stone Dock)—**

Located in Slip No. 5.

Four Steam A Shape Rigs.

Capacity of buckets 1,700 pounds.

Capacity per 10 hours 1,400 tons.

Depth of water 17 feet.

Storage capacity 20,000 tons.

Maximum length of boat 300 feet.

Supt. D. Ridgewell.

**Duluth, Missabe & Northern Ry. Co.—**

Five Electric Mead-Morrison.

Two 4 ton clam shells used.

Three 2 ton clam shells used.

Capacity per 10 hours 10,000 tons.

COAL DOCKS OF THE GREAT LAKES—Continued

Storage capacity 625,000 tons.

Depth of water 22 feet.

Can handle boats of any length.

R. R. connections, D. M. & N., N. P. & Soo, Omaha, C. N.,

St. Paul, D. & I. R., G. N.

Supt. C. H. Fugle.

**Island Creek Coal Dock Co., Dock No. 1—**

Island Creek Coal Sales Co., St. Paul, Minn.

St. Louis River, West Duluth.

Two Heyl & Patterson.

Size of clam shells used 6 ton.

Capacity per 10 hours 8,000 tons.

Storage capacity 1,000,000 tons.

Depth of water at dock 24 feet.

R. R. connections, N. P., D. M. & N., St. Paul, Soo, C. N.,

D. & I. R., D. S. S. & A., Omaha, G. N.

Gen. Supt. A. W. Fluegel—A. W. Fay, Supt. Dock No. 1.

**North Western Fuel Co.—**

St. Paul, Minn.

Foot of 5th Ave.

17 Fixed Timber Masts.

Size of buckets used 1 ton.

Capacity per 10 hours 2,500 tons.

Storage capacity 60,000 tons.

Depth of water 21 feet.

Can handle boats of any length.

R. R. connections, N. P., G. N., Omaha, Soo, D. & I. R., D. M.

& N., C. N., St. Paul.

Supt. A. C. Jones.

**Pittsburg & Ashland Coal & Dock Co.—**

Foot of Seventh Avenue west.

One Mead-Morrison Electric Bridge.

Five ton clam buckets used.

Clean up clam buckets used.

Capacity per ten hours 3,000 tons.

Four McMylers Machines.

Three 1 ton and one 2 ton clam shells used.

One ton buckets used.

Capacity per ten hours 1,500 tons.

Storage capacity 450,000 tons.

Depth of water at dock 22 ft.

Maximum length of boat 650 ft.

R. R. connections, Northern Pacific, Omaha, Soo Line, & C. &

N. W.

Supt. John T. Berns.

**Pittsburgh Coal Co. (Dock No. 7)—**

Three Brown Hoists.

5½ ton clam shells used.

Capacity per 10 hours 8,000 tons.

Storage capacity 600,000 tons.

Depth of water at dock 20 feet.

R. R. connections, N. P., G. N., Omaha, Soo, D. & I. R., D. M.

& N., C. N., St. Paul.

Maximum length of boat 600 feet.

Supt. Chas. Gallagher.

**Zenith Furnace Co.—**

Four Mead Morrison.

2 ton clam shells used.

Capacity per 10 hours 6500 tons.

Storage capacity 350,000 tons.

Depth of water at dock 21 ft.

Can handle boats of any length.

R. R. connections, N. P., G. N., D. M. & N., Omaha, Soo, D. &

I. R., St. Paul and C. N.

Supt. F. C. Harris.

**EMPIRE, MICH.**

**1. Wilcox Co. (Empire Lumber Co.)—**

Two Hoisting Engines.

No buckets for unloading.

One rig for unloading logs.

Storage capacity 300 tons.

Load on cars for shed.

Depth of water at dock 14 feet.



Can handle boats of any length.  
Supt. E. R. Dailey.

**ERIE, PA.**

**Y. & O. Coal Co.—**

McMyler Car Dump.

**Hammermill Paper Co.—**

Lower end of the Bay.

4 McMylers.

Capacity per day 800 cords.

Depth of water at dock 18 feet.

Can handle any length boat.

R. R. connections, Pennsylvania.

Supt. E. Held.

**ESCANABA, MICH.**

**Central Coal Co. (C. M. & St. P.)—**

Three Rigs.

2 ton clam shells used.

Capacity per 10 hours 2,000 tons.

Storage capacity 100,000 tons.

Depth of water at dock 25 feet.

Can handle boats of any length.

R. R. connections, St. Paul, Escanaba & Lake Superior.

Supt. J. Earling.

**Reiss Coal Co., C. (C. & N. W.)—**

Four Mead Hoists.

1¼ ton clam shells used.

1 ton buckets used.

Capacity per 10 hours 2,500 tons.

Depth of water at dock 20 feet.

Can handle boats of any length.

R. R. connections, C. & N. W., St. Paul, and others.

Supt. Mat. O'Brien.

**FAIRPORT, OHIO**

**Pittsburgh Coal Co.—**

McMyler Car Dump.

Supt. A. G. Miltner.

**FORESTVILLE, MICH.**

**N. C. Potts—**

No unloading equipment.

Depth of water at dock 11 feet.

**FORT WILLIAM, ONT.**

**Canadian Pacific Ry. Co.—**

Five Mead Morrison Hoists.

Four 1½ ton clams used.

One 2 ton clam used.

Capacity per 10 hours 6,500 tons.

Storage capacity 400,000 tons.

Depth of water at dock 22 feet.

Can handle boats of any length.

R. R. connections, C. P. R., C. N., G. T. P.

Supt. O. Peterson.

**Canadian Pacific Ry. Co.—**

Two Whirlies.

1 ton clam shells used.

1 ton buckets used.

Capacity per 10 hours 700 tons.

Storage capacity 50,000 tons.

Depth of water at dock 22 feet.

R. R. connections, C. P. R., C. N., G. T. P.

Supt. O. Peterson.

**Canadian Pacific Ry. Co. (Island Dock)—**

Two Hulett Machines.

8 ton clam shells used.

Capacity per 10 hours 7,000 tons.

Storage capacity 1,000,000 tons.

Depth of water at dock 25 feet.

Can handle boats of any length.

R. R. connections, C. P. R., C. N., & G. T. P.

Supt. O. Peterson.

**Fort William Coal Dock Co.—**

Two Heyl & Patterson.

2 ton clam shells used.

1 Brown Hoist.

6 ton clam shell used.

COAL DOCKS OF THE GREAT LAKES—Continued

Capacity per 10 hours 5,000 tons  
Storage capacity 300,000 tons.  
Depth of water at dock 20 feet.  
Can handle boats of any length.  
R. R. connections, G. T. P., C. P. R., & C. N.  
Supt. C. B. Neinaber.

**Murphy, James—**

Kaministiquia River.  
Two Whirlies.  
Size of clam shells used 1½ ton.  
Size of buckets used 1 ton.  
Capacity per 10 hours 1,400 tons.  
Storage capacity 40,000 tons.  
Depth of water at dock 20 feet.  
R. R. connections, C. P. R., C. N., G. T. P.  
Can handle any size boat.

**Steel Rail Unloading Docks—**

Canadian Pacific Railway.  
Grand Trunk Pacific Railway.  
Canadian Northern Railway.

**GARY, IND.**

**Indiana Steel Co. (Rail Loading Dock)—**

Locomotive cranes used.  
Use any number machines necessary.  
Work day and night.  
Capacity 2,400 tons in 48 hours.  
Depth of water at dock 20 feet.  
Can load two medium sized boats at once.

**GLADSTONE, MICH.**

**Pittsburgh Coal Co.—**

Three Whirlies.  
1½ and 2 ton clam shells used.  
7 Hunt Hoists.  
¾ ton buckets used.  
Capacity per 10 hours 3,000 tons.  
4 Hunt Hoists.

¾ ton buckets used.  
Capacity 10 hours 1,400 tons.  
Storage capacity 175,000 tons.  
Depth of water at dock 20 feet.  
Can handle boats of any length.  
R. R. connections, Soo Line.  
Supt. Peter Peterson.

**GOAT ISLAND, ONT.**

**Algoma Eastern Railway Co.—**

North side of Little Current Channel.  
One Brown Hoist.  
3 ton clam shell used.  
Capacity per 10 hours 2,000 tons.  
Storage capacity 120,000 tons.  
Depth of water at dock 22 feet.  
Maximum length of boat 350 feet.  
Supt. T. F. Rahilly, Sudberry, Ont.

**GODERICH, ONT.**

**Electric Light Plant—**

Capacity per day 225 tons.

**Goderich Elevator & Transit Co.—**

South side of Harbor.  
One steam hoist.  
1 ton buckets used.  
Capacity per day 300 tons.  
Storage capacity 500 tons.  
Depth of water at dock 20 feet.  
Maximum length of boat 300 feet.  
R. R. connections, G. T., C. P. R.  
Supt. G. L. Parsons.

**Holmes, F. Barlowe—**

One Steam Hoist.  
Capacity per day 250 tons.

**Western Canada Flour Mill Co., Ltd.—**

One Whirley.  
Size of buckets used ¾ ton.  
Capacity per 10 hours 500 tons.

COAL DOCKS OF THE GREAT LAKES—Continued

One steam hoist.  
Size of Buckets used 1200 pounds.  
Capacity 10 hours 300 tons.  
Storage capacity 8,000 tons.  
Depth of water at dock 18 feet 6 inches.  
Length of boat can reach dock 300 feet.  
Supt. J. W. Fraser.

**GORE BAY, MANITOULIN ISLAND, ONT.**

**Purvis Brothers—**

Boat to do the hoisting.

**GRAND MARAIS, MICH.**

**Booth Fisheries Co.—**

Boat to do the hoisting.

**GREEN BAY, WIS.**

**Central Coal Co. (C. M. & St. P.)—**

Three Brown Hoists.  
2 ton clam shells used.  
Capacity per 10 hours 2,000 tons.  
Storage capacity 100,000 tons.  
Depth of water at dock 18 feet and 6 inches.  
Can handle boats of any length.  
R. R. connections, St. Paul & N. W., & G. B. & W.  
Supt. Henry Stange.

**Flatley Brothers Co.—**

Two Steam Hoists.  
 $\frac{1}{2}$  ton buckets used.  
Capacity per 10 hours 700 tons.  
Storage capacity 15,000 tons.  
Depth of water at dock 18 feet.

**Interstate Coal & Dock Co.**

One Mead-Morrison Bridge.  
5 ton clam shell used.  
Capacity per day 3,000 tons, 9,000 tons 35 hours.  
Storage capacity 175,000 tons.

Depth of water at dock 18 feet and 6 inches.  
Maximum length of boat, any length.  
R. R. connections, C. & N. W., St. Paul.  
Supt. H. L. Fiedler.

**Barkhausen Retail Dock, H. A.—**

2 Unloading Booms. Figure 4 Rigs.  
 $\frac{1}{2}$  ton buckets used.  
Capacity per 10 hours 500 tons.  
Storage capacity 15,000 tons.  
Depth of water at dock 18 feet and 6 inches.  
Maximum length of boat 300 feet.

**Hurlbut Co., F.—**

One Electric Brown Hoist.  
 $1\frac{1}{2}$  ton clam shell used.  
Capacity per day 750 tons.  
Storage capacity, 150,000 tons.  
One Whirley.  
 $1\frac{1}{2}$  ton clam shell used.  
Capacity per 10 hours 750 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 650 feet.  
R. R. connections, C. & N. W., St. Paul, G. B. & W.  
Supt. A. Francois.

**Reiss Coal Co., C.—**

2 Mead Hoists.  
 $1\frac{1}{2}$  ton clam shells used.  
1 ton buckets used.  
Capacity per 10 hours 2,000 tons.  
1 Heyl & Patterson.  
7 ton clam shells used.  
Capacity per 10 hours 4,500 tons.  
One Whirley.  
1 &  $1\frac{1}{4}$  ton bucket used.  
Capacity 1,000 tons, 10 hours.  
Storage capacity 300,000 tons.

COAL DOCKS OF THE GREAT LAKES—Continued

Depth of water at dock 19 feet.  
Can handle boats of any length.  
R. R. connections, C. N. W., St. Paul, G. B. & W.  
Supt. W. Willard.

**GROSSE POINT, MICH.**

P. O. Address, Point Mills, Mich.

**Arcadian Mining Co.—**

Mast and Booms.  
Capacity per day 300 tons.

**Asphalt Block Pavement Co. (Sand Dock)—**

2 belt conveyors, 24 foot centers.  
Loading capacity 3,000 tons per 10 hours.  
Storage capacity 4,000 tons.  
Depth of water at dock 21 feet.  
Supt. Henry F. Key, Hancock, Mich.

**Centennial Mining Co.—**

Mast and Booms.  
Capacity per day 600 tons.

**Franklin Mining Co.—**

Three Swinging Booms.  
 $\frac{1}{2}$  ton buckets used.  
Capacity per day 700 tons.  
Depth of water at dock 20 feet.  
Supt. E. S. Warne.

**Lake Milling, Smelting & Refining Co.—**

Mast and Booms.  
Capacity per day 650 tons.

**HANCOCK, MICH.**

**City Dock (Water Works)—**

Two Brown Hoists.  
Capacity per day 500 tons.  
Size of buckets used 500 lbs.  
Storage capacity 2,500 tons.  
Depth of water at dock 18 feet.

**Hodge Iron Co.—**

Have engine on dock.  
Whip Rig on mast of vessel.

$\frac{1}{2}$  ton bucket used.  
Capacity per day 300 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 400 feet.  
Supt. L. M. Cleaves.

**Houghton County Gas Co.—**

Coal is unloaded over the dock of the Portage Coal & Dock Co.

**Houghton County Traction Co.—**

Two Masts and Booms.  
Size of buckets used  $\frac{1}{4}$  ton.  
Capacity per day 400 tons.  
Storage capacity 8,000 tons.  
Depth of water at dock 19 feet.  
Supt. John Ralph, Jr.

**People's Fuel Co.—**

One Haiss Hoist.  
1 ton clam shell used.  
1 ton bucket used.  
Capacity per 10 hours hard coal 1,200 tons.  
Capacity per 10 hours soft coal 800 tons.  
Storage capacity hard coal 15,000 tons.  
Storage capacity soft coal, 35,000 tons.  
Depth of water at dock 19 feet 6 inches.  
Maximum length of boat 310 feet.  
Supt. Richard Vincent.

**Portage Coal & Dock Co.—**

Two Mead Morrison.  
 $1\frac{1}{4}$  ton clam shells used.  
1 ton buckets used.  
Capacity per 10 hours 2,500 tons.  
Three Whirlies.  
1 ton clam and buckets used.  
Storage capacity 60,000 tons.  
Depth of water at dock 19 to 22 feet.  
Can handle boats of any length.  
R. R. connection, D. S. S. & A.  
Supt. J. H. Hicok.

COAL DOCKS OF THE GREAT LAKES—Continued

**Portage Lake Foundry & Machine Co.—**

Two Booms.  
Hoisting engine on dock.  
 $\frac{1}{4}$  ton buckets used.  
Capacity per day 300 tons.  
Storage capacity 1,500 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 400 feet.  
R. R. connections, Mineral Range.  
Depth of water at dock 18 feet.  
Maximum length of boat 400 feet.  
Supt. L. M. Cleaves.

**Mineral Range Railroad Co.—**

Four Friction Hoists.  
Size of buckets used 1 ton.  
Capacity per 10 hours 1,000 tons.  
Storage capacity 3,500 tons.  
Depth of water at dock 15 feet.  
Maximum length of boat 300 feet.  
Railroad connections:  
D. S. S. & A. & Copper Range.  
Supt. T. W. Smith, Calumet, Mich.

**Quincy Smelting Co.—**

Three Hoists.  
Capacity per day 600 tons.

HARBOR BEACH, MICH.

**The Mehlethaler Co., Ltd.—**

One Whirley.  
 $\frac{3}{4}$  ton clam shells used.  
1 ton bucket used.  
Capacity per day 400 tons.  
Storage capacity 4,000 tons.  
Depth of water at dock 13 feet.  
Maximum length of boat 300 feet.  
Supt. A. M. Jenks.

HOUGHTON, MICH.

**Atlantic Mining Co.—**

Dock has been out of commission.

Supt. Theo. Dengler.

**Carroll Foundry Co.—**

**Copper Range Railroad Co.—**

Three Mead Morrison.  
 $1\frac{1}{2}$  ton clam shells used.  
 $\frac{1}{4}$  ton buckets used.  
Capacity per 10 hours 3,000 tons.  
Storage capacity 35,000 tons.  
Depth of water at dock 20 feet.  
Maximum length of boat 700 feet.  
R. R. connections, Mineral Range, D. S. S. & A., Mineral  
Range and St. Paul.  
Supt. A. H. Ehlers.

**Croze, Joe—**

Three Booms and Blocks.  
 $\frac{1}{4}$  ton buckets used.  
Can rig up an extra boom.  
Capacity per day 250 tons.  
Capacity per day 4 rigs 350 tons.  
Depth of water at dock 17 feet.  
Maximum length boat can handle 300 feet.

**Houghton County Traction Co.—**

Two derrick hoists.  
 $\frac{1}{4}$  ton buckets used.  
Capacity per 10 hours 500 tons.  
Storage capacity 7,000 tons.  
Depth of water at dock 20 feet.  
Can handle boats of 400 foot length.  
No R. R. connections.  
Supt. John Ralph, Jr.

**Isle Royal Copper Co.—**

Three Steam Hoists.  
 $\frac{1}{2}$  ton buckets used.  
Capacity per 10 hours 1,000 tons.  
Storage capacity 40,000 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat can handle 376 feet.  
Supt. J. G. Glanville.

COAL DOCKS OF THE GREAT LAKES—Continued

**Northey Coal Dock—**

One Rig.  
Capacity per day 250 tons.

**Van Orden Co., M.—**

One Electric Steel Bridge.  
3 ton clam shells used.  
 $\frac{3}{4}$  ton buckets used.  
Capacity per 10 hours 1,500 tons.  
Storage capacity 40,000 tons.  
Depth of water at dock 21 feet.  
Can unload any size boat.  
R. R. connections to all roads.  
Supt. Louis Reidy.

**HUBBELL, MICH.**

**Calumet & Hecla Smelting Works—**

Five Rigs.  
Capacity per day 3,500 tons.  
Depth of water 22 feet.  
Can unload any size boat.

**Ethler, Joseph—**

One Rig.  
1 ton clam shell used.  
 $\frac{3}{4}$  ton bucket used.  
Capacity per 10 hours hard coal 600 tons.  
Capacity per 10 hours soft coal 400 tons.  
Storage capacity 6,000 tons.  
Depth of water 18 feet.  
Maximum length of boat 275 feet.  
Work overtime when necessary.  
Supt. J. J. Ethier.

**Osceola Mining Co.—**

C. L. Lawton, Gen. Mgr., Hancock.

**Quincy Mill—**

Three Mead Morrison.  
Capacity per day 4,000 tons, operate 24 hrs.

Size of clam shells used 1 1-5 tons.  
Size of buckets used  $\frac{3}{4}$  ton.  
Depth of water at dock 25 feet.  
R. R. connections, Copper Range, Mineral Range, Q. & T. L.  
Supt. Ralph Hayden.

**HURON, OHIO**

**W. & L. E.—**

Car Dump No. 1 (East Side).

**W. & L. E.—**

Car Dump No. 2 (West Side).  
Supt. T. R. Gillmore.

**INDIANA HARBOR, IND.**

**Inland Steel Co.—**

5 Hoover & Mason.  
Size of clam shells used 7 $\frac{1}{2}$  ton.  
2 Robins conveying belt.  
2 ton buckets used.  
Capacity per 10 hours 9,000 tons.  
Storage capacity 200,000 tons.  
Depth of water at dock 22 feet.  
Maximum length boat 600 feet.  
R. R. connections, Ind. Belt, E. J. & E.  
Supt. John W. Lees.

**JACKFISH, ONT.**

**Canadian Pacific Ry. Co.—**

Two Mead Morrison.  
One 2 ton clam shell.  
One 1 ton clam shell.  
Capacity per 10 hours 2,500 tons.

**KELLEY ISLAND, OHIO**

**Kelley Island Lime & Transport Co.—**

West Bay Dock.  
Height of dock 66 feet.  
Height from hinge of spout to water 33 feet 6 inches.  
No. of Pockets 24, 12 on each side.  
Storage capacity 8,000 tons. To be increased to 10,000 in

COAL DOCKS OF THE GREAT LAKES—Continued

the near future.

Length of spouts 27 feet.

Length of dock 464 feet.

Angle of pockets 45 degrees.

Depth of water inner end 16 feet.

Depth of water at outer end 21 feet.

**Kelley Island Lime & Transport Co.—**

North Side Dock.

Capacity of dock 800 tons.

Can load 1,200 tons per day.

Depth of water at dock 13 feet 6 inches.

**Kelley Island Lime & Transport Co.—**

South Side Dock.

Dump from cars.

Can load 1,200 tons per day.

Depth of water at dock 12 feet 6 inches.

**KENOSHA, WIS.**

**Allen's Sons Co., N. R.—**

Self unloading boats only.

Storage capacity 7,500 tons.

**Baldwin Coal Co., Geo. S.—**

Two Figure 4 rigs.

½ ton buckets used.

Capacity per day hard coal 800 tons.

Capacity per day soft coal 700 tons.

Storage capacity 12,000 tons.

Maximum length of boat 300 feet.

Depth of water 17 feet.

R. R. connections, C. & N. W.

**O'Donnell Coal Co., John—**

Two figure 4 Rigs.

½ ton buckets used.

Capacity per 10 hours hard coal 650 tons.

Capacity per 10 hours soft coal 500 tons.

Depth of water at dock 17 to 18 feet.

Storage capacity 9,000 tons.

Maximum length of boat 500 feet.

**North Shore Fuel & Supply Co.—**

One Steam Hoist.

Capacity per day 700 tons.

**KEWAUNEE, WIS.**

**Kewaunee Grain Co.—**

Two Horse Hoists.

Capacity per day 300 tons.

Storage capacity 3,000 tons.

Depth of water at dock 16 feet.

Can handle boats of any length.

Supt. G. A. Duvall.

**KEWEENAW BAY, BARAGA COUNTY, MICH.**

**Mass Consolidated Mining Co.—**

Three Rigs.

½ ton buckets used.

Capacity per 10 hours 750 tons.

Depth of water at dock 14 feet.

Can handle boats of any length.

Supt. E. F. Douglass.

**KEY HARBOUR, ONT.**

**Canadian Northern Ontario Railway Dock—**

Two Brown Hoist 20 ton locomotive cranes.

Size of clam shells used 2 ton.

Capacity per 10 hours 1,000 tons.

Depth of water at dock 21 feet.

Can handle boats of any length.

R. R. connection, C. N. O. only.

D. Crombie, Supt. Trans., Toronto.

O. Ruby, Lake Forwarding Agent, Rockefeller Bldg., Cleve., O.

**KINGSTON, ONT.**

**James Swift & Co.—**

One Steam Hoist.

½ ton buckets used.

Capacity per 10 hours 300 tons.

Storage capacity 10,000 tons.

Depth of water at dock 12 feet.

COAL DOCKS OF THE GREAT LAKES—Continued

Length of boat can reach dock 400 feet  
Supt. F. Conway.

**Canadian Locomotive Co., Ltd.—**

Two Brown Hoists.  
½ ton buckets used.  
Capacity per 10 hours 500 tons.  
Depth of water at dock 12 feet.  
Maximum length of boat 550 feet.  
Storage capacity 8,000 tons.

**Soward's Coal Co. & Crawfords Dock—**

One McMyler with 1 ton clam on lighter  
Capacity per 10 hours 400 tons.  
Depth of water at dock 14 feet.  
Can handle Welland Canal size boat.  
Supt. J. F. Soward.

**Water Works Dept.—**

Unloading of boats given to local contractors.  
Depth of water at dock 14 feet.  
Mgr. C. C. Folger.

**KINCARDINE, ONT.**

**Kincardine Electric Light & Gas Dept.—**

Three Horse Rigs.  
300 pound clam shells used.  
Capacity per day 375 tons.  
Storage capacity 7,000 tons.  
Depth of water at dock 15 to 17 feet.  
R. R. connections, C. P. R.  
Supt. J. R. McLinden.

**Ontario People's Salt & Soda Co., Ltd.—**

One Steam Hoist.  
Capacity per day 300 tons.  
¼ ton buckets used.  
Storage capacity 3,500 tons.  
Depth of water at dock 14 feet.  
Maximum length boat 200 feet.  
R. R. connections, G. T. P.

John Talmie, Secy.  
**Hunter Dredge & Boiler Works—**  
Unload with horses.

**KNIFE RIVER, MINN.**

**Duluth & Northern Minnesota Ry. Co.—**

One McMyler.  
Use clam shell.  
Capacity per 10 hours 500 tons.  
Depth of water at dock 15 feet.  
R. R. connections, D. & N. M., D. & I. R.  
Supt. George Ward.

**LAKE LINDEN, MICH.**

**Lake Linden Fuel & Supply Co.—**

Three Rigs.  
Capacity per day 400 tons.

**LIME ISLAND, MICH.**

**Pittsburgh Coal Co. (Fueling Station)—**

Two Wellman-Seaver-Morgan Machines.  
Size of clam shells used 2 ton.  
Unloading capacity per 10 hours 1,800 tons.  
Storage capacity 25,000 tons.  
Two coaling pockets, capacity 375 tons each, with 4 spouts each.  
Height of spouts from water 47 feet.  
Length of dock 800 feet.  
Depth of water at dock 24 feet.

**LITTLE CURRENT, ONT.**

**Boon Wrecking & Dredging Co.—**

Horse Dock.  
Capacity per day 225 tons.

**Sims, T. C.—**

Two Horse Rigs.



COAL DOCKS OF THE GREAT LAKES—Continued

Capacity per day 175 tons.  
Storage capacity 1,000 tons.  
Depth of water at dock 14 feet.  
Maximum length of boat 160 feet.

LORAIN, OHIO

Baltimore & Ohio Ry. Co.—

2 McMyler Car Dumps.  
No. 1 machine below the bridge.  
No. 2 machine above N. Y. C. and St. Louis Ry. Bridge.  
Supt. C. E. Pierce.

LUDINGTON, MICH.

Cartier Sons Co., A. E.—

Boat to do the hoisting.  
Depth of water at dock 17 feet.  
Maximum length of boat 350 feet.  
Storage capacity 2,000 tons.  
R. R. connections, P. M.  
Supt. M. J. McBane.

Morton Salt Co.

One Mead Hoist.  
 $\frac{3}{4}$  ton clam shell used.  
Capacity per day 600 tons.  
Storage capacity 30,000 tons.  
Depth of water 17 feet 6 inches.  
Maximum length of boat can handle 315 feet.  
R. R. connections, P. M.  
Supt. E. C. Hardy.

Stearns Salt & Lumber Co. (Salt Dock)—

Dock storage capacity 6,000 barrels.  
Loading capacity 1,000 bbls. per hour or 75 tons per hour.  
Can work two shifts if necessary.  
Depth of water at dock 17 feet.

MACKINAC ISLAND, MICH.

Arnold, George T.—

One McMyler.  
1 ton clam shell used.

1 ton bucket used.  
Capacity per day 500 tons.  
Storage capacity 3,000 tons.  
Depth of water 14 feet.  
Supt. George Lapene.

MANISTEE, MICH.

Duncan, J. W.—

Two Hoists.  
 $\frac{1}{4}$  ton buckets used.  
Capacity per day 300 tons.  
Storage capacity 1,500 tons.  
Depth of water at dock 15 feet.  
Maximum length of boat 250 feet.

American Hide & Leather Co.—

Coal handled by J. W. Duncan.

Buckley & Douglass Lumber Co. (Salt Dock)—

Load with belt conveyor.  
Capacity per 10 hours 800 tons.  
Depth of water 15 to 16 feet.  
Maximum length of boat 350 feet.  
R. R. connections, Manistee & Northeastern.  
Supt. E. C. Schooley.

R. G. Peters Salt & Lumber Co. (Salt Dock)—

Loading capacity 1,500 tons per day.  
Depth of water at dock 15 to 16 feet.  
Supt. Chas. Grotemal.

MANISTIQUE, MICH.

Chicago Lumbering Co.—

Two Steam Hoists.  
300 pound buckets used.  
Capacity per day 200 tons.  
Storage capacity 5,000 tons.  
Depth of water at dock 16 feet.  
Can handle boats of any length  
Supt. F. Garrett.

COAL DOCKS OF THE GREAT LAKES—Continued

MANITOWOC, WIS.

Goodrich Transportation Co.—

Two Hoists.  
Capacity per day 700 tons.

Johnson Co., J. G.—

Three Steam Hoists.  
 $\frac{1}{2}$  ton buckets used.  
Capacity per 10 hours 850 tons.  
Storage capacity 11,000 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 250 feet.  
Supt. W. A. Huchthausen.

Manitowoc Land & Fuel Co.—

Three Rigs.  
Buckets used about 1,800 pounds.  
 $\frac{1}{2}$  ton clam shells used.  
Capacity per day hard coal 1,500 tons.  
Capacity per day soft coal 900 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 350 feet.

Reiss Coal Co., C. (C. & N. W. Dock)—

One Heyl & Patterson.  
6 ton clam shells used.  
Capacity per 10 hours 3,000 tons.  
Depth of water at dock 19 feet.  
R. R. connection, C. & N. W.  
Supt. J. E. Carey.

Reiss Coal Co., C. (Soo Dock)—

One Mead-Morrison.  
5 ton clam shells used.  
Capacity per 10 hours 2500 tons.  
Storage capacity 200,000 tons.  
Can handle 550 foot boat.  
R. R. connections, Soo Line.  
Supt. J. E. Carey.

MARINE CITY, MICH.

Blood & Hart—

One Steam Hoist.  
Capacity per day 100 tons.

Cottrell, R. A.—

Two Hoists.  
 $\frac{1}{2}$  ton buckets used.  
Capacity per day 200 tons.  
Depth of water 25 feet.  
Maximum length of boat 580 feet.  
Fueling dock.

Davidson & Wansey—

Horse Rigs.  
Capacity per day 150 tons.

Marine City Water Works—

One Hoist with Clam.  
Capacity per day 100 tons.  
Depth of water 11 feet 6 inches.

Water Works—

One Derrick.  
300 lb. bucket used.  
Capacity per day 200 tons.  
Depth of water at dock 18 feet.  
Can unload boats of any length.  
Storage capacity 25,000 tons.  
R. R. connections, Rapid R. R. Co.  
Supt. C. H. Saph.

MARINETTE, WIS

Norton Coal Co., Ed.—

One Steam Rig.  
Capacity per day 300 tons.

Marinette Fuel & Dock Co.—

Two Steam Hoists.  
 $\frac{1}{2}$  ton buckets used.  
Capacity per day 500 tons.  
Storage capacity 15,000 tons.  
Depth of water 15 feet.

COAL DOCKS OF THE GREAT LAKES—Continued

Can handle 500 foot boat.  
Supt. C. P. Nevins.

**MARQUETTE, MICH.**

**Pickands & Co., Ltd., James—**

Two Mead Hoists.  
1¼ ton clam shells used.  
1 ton buckets used.  
Capacity per day 3,000 tons.  
Overtime worked when necessary.  
Storage capacity 50,000 tons.  
Depth of water at dock 20 feet.  
Maximum length of boat 600 feet.  
R. R. connections, D. S. S. & A., L. S. & I.  
Supt. Nels Hagen.

**Spear & Sons, F. B.—**

Two Whirlies.  
1½ and 2 ton clam shells used.  
1 ton bucket used.  
Capacity per day hard coal 1,800 tons.  
Capacity per day soft coal 1,500 tons.  
Storage capacity 20,000 tons.  
Depth of water at dock 18½ feet.  
Can handle boats of any length.  
R. R. connections, M. & S. E., D. S. S. & A.

**MEAFORD, ONT.**

**Georgian Bay Milling & Power Co.—**

2 Horse Rigs with buckets.  
Capacity per day 350 tons.  
Depth of water at dock 19 feet.  
Can unload boats of any length.  
Supt. W. T. Moore.

**MENOMINEE, MICH.**

**Central West Coal Co.—**

Three Brown Hoists.  
Size of clam shells used 1½ ton.  
Capacity per 10 hours 3,000 tons.

Storage capacity 100,000 tons.  
Depth of water at dock 18 feet.  
Can handle boats of any length.  
R. R. connections, C. & N. W., St. P.  
Supt. A. C. Stephenson.

**Lyon Brothers—**

Three Steam Rigs.  
½ ton buckets used.  
Capacity per day 600 tons.  
Depth of water at dock 15 feet.  
Maximum length of boat 300 feet.  
Supt. C. O. Lyon.

**Menominee River Sugar Co.—**

One Industrial Rig.  
1 ton clam shells used.  
1 ton buckets used.  
Capacity per 10 hours 400 tons.  
Can work nights if necessary.  
Storage capacity 15,000 tons.  
Depth of water at dock 17 feet.  
Maximum length of boat 400 feet.  
George McCormick, Mgr.

**Nowack, T. C.—**

One Steam Hoist.  
800 pound bucket used.  
Capacity per day 400 tons.  
Storage capacity 3,000 tons.  
Depth of water at dock 15 feet.  
Maximum length of boat 140 feet.

**Ramsey & Jones—**

Horse Rigs.  
Capacity per day 200 tons.

**MICHIPICOTEN HARBOUR, ONT.**

**Commercial Dock—**

Algoma Central & Hudson Bay Ry.  
Two Locomotive Whirlies.  
Size of clam shell used 2 ton.  
Size of buckets used 1 ton.

Capacity per 10 hours 800 tons.  
 Depth of water at dock 20 feet.  
 Maximum length of boat 400 feet.  
 Supt. A. J. Donegan.

**MIDLAND, ONT.**

**Canada Iron Corporation, Ltd.—**

Two Whirlies.  
 2½ ton clam shells used.  
 1½ ton dump buckets used.  
 Capacity per day 1,200 tons.  
 Depth of water at dock 19 feet 6 inches.  
 Can handle boats of any length.  
 Supt. Geo. Drydale Drummond.

**Midland Coal Dock Co., Ltd. (Canada Steamship Lines)—**

Two Whirlies.  
 1 ton clam shells used.  
 1 ton buckets used.  
 Capacity per 22 hours 2,200 tons.  
 Work day and night.  
 Storage capacity 30,000 tons.  
 Depth of water at dock 22 feet.  
 Maximum length of boat 500 feet.  
 R. R. connections, G. T.  
 O. Ruby, Lake Forwarding Agent, Rockefeller Bldg., Cleve., O.  
 Supt. D. S. Pratt.

**Playfair, James—**

2 King Bridges.  
 1½ & 2 ton clam shells used.  
 1 Whirley.  
 1 ton buckets used.  
 Capacity per 10 hours 2300 tons.  
 Depth of water 22 feet.  
 Can handle any size boat.  
 R. R. connections, Grand Trunk.  
 Supt. D. H. Clark.

**MILWAUKEE, WIS.**

**Callaway Fuel Co.—**

Cherry St. Bridge.  
 One Electric operated Steel Bridge.  
 3 ton clam shell used.  
 Capacity per 10 hours 2,500 tons.  
 Storage capacity hard coal 10,000 tons.  
 Storage capacity soft coal 20,000 tons.  
 Depth of water at dock 19 feet.  
 Any length of boat can lay at the dock, but for storage  
 they take only large steamers.  
 Supt. Charles Peterman.

**Central Coal Co.—**

Pabst Bldg.  
 North Menominee River.  
 25th Street Dock.  
 Seven Brown Hoists.  
 4 double.  
 3 single.  
 2½ ton clam shells used.  
 Capacity per 10 hours 6,000 tons.  
 Storage capacity 400,000 tons.  
 Depth of water at dock 21 feet.  
 Maximum length of boat 650 feet.  
 R. R. connections, St. Paul & C. & N. W., & Soo.  
 Supt. E. J. Barthel.

**Gallun & Sons, A. F. (Tannery)—**

Milwaukee River.  
 Two Figure 4 Rigs.  
 Capacity per 10 hours 750 tons.  
 Storage capacity 9,000 tons.  
 Maximum length of boat 300 feet.

**Gross Coal Co.—**

North Menominee River.  
 First Avenue Dock.  
 4 Mead Morrison Portable Hoists.

COAL DOCKS OF THE GREAT LAKES—Continued

1½ ton clam shells used.  
 Capacity per 10 hours 3,000 tons soft coal.  
 Capacity per 10 hours 5,000 tons hard coal.  
 Storage capacity 110,000 tons.  
 Depth of water at dock 20 feet.  
 Maximum length of boat 470 feet.  
 R. R. connections, C. M. & S. & P., Soo & N. W.  
 Supt. J. J. Bosch.

**Kanawha Fuel Co.—**

Pabst Slip.  
 Four Hoists.  
 2 ton clam shells used.  
 1 ton buckets used.  
 Capacity per 10 hours 2,500 tons.  
 Storage capacity 300,000 tons.  
 Depth of water at dock 19 feet.  
 Maximum length of boat 380 feet.

**Kanawha Fuel Co.—**

North Menominee River.  
 Muskego Avenue.  
 Four Hoists.  
 1 ton buckets used.  
 Capacity per 10 hours 1,500 tons.  
 Storage capacity 150,000 tons.  
 Depth of water at dock 20 feet.  
 Maximum length of boat 650 feet.

**Kanawha Fuel Co.**

Whitnall Dock.  
 North Menominee River.  
 4 Portable Electric Hoists.  
 1½ ton clam shells used.  
 Capacity per hour 300 tons.

**Lehigh Valley Coal Sales Co.—**

South Menominee River.  
 Canal Street Dock.  
 Two Mead Morrison Hoists.  
 2 ton clam shells used.

Capacity per 10 hours 4,500 tons.  
 Storage capacity 75,000 tons.  
 Depth of water at dock 20 feet.  
 Maximum length of boat 460 feet.  
 R. R. connections, C. M. & St. P., N. W., Soo.  
 Supt. C. O. Hansen.

**Milwaukee Coke & Gas Co.—**

Kinnickinnic River, south of C. & N. W. Bridge.  
 Greenfield Avenue.  
 Two Brown Hoists.  
 One Johnson Electric.  
 2 ton clam shells used.  
 Capacity per 10 hours 4,500 tons.  
 2 Whirlies.  
 Size of buckets used 1½ tons.  
 Capacity 1,300 tons.  
 Storage capacity 400,000 tons.  
 Depth of water at dock 20 feet.  
 Maximum length of boat 625 feet.  
 R. R. connections, C. & N. W., St. P., Soo.  
 Supt. J. F. Blackie.

**Milwaukee-Western Fuel Co.—**

14 Grand Ave.  
 Milwaukee River.  
 Cherry Street dock (Cherry St. Bridge).  
 Six Portable Tower Type.  
 1 ton clam shells used.  
 Capacity per 10 hours hard coal 4,500 tons.  
 Capacity per 10 hours soft coal 3,500 tons.  
 Depth of water at dock 19 feet.  
 Storage capacity 65,000 tons.  
 Maximum length of boat 500 feet, and 52 foot beam.  
 Supt. W. F. Ardern.

**Milwaukee-Western Fuel Co.—**

14 Grand Ave.  
 Milwaukee River.  
 Commerce Street Dock (Halton St. Viaduct).  
 Two Portable Bridge Type, Heyl and Patterson.

COAL DOCKS OF THE GREAT LAKES—Continued

2 ton clam shells used.  
Capacity per 10 hours 3,500 tons.  
Depth of water at dock 19 feet.  
Storage capacity 75,000 tons.  
Maximum length of boat 500 feet and 52 foot beam.  
Supt. W. F. Ardern.

**Milwaukee-Western Fuel Co.—**

14 Grand Ave.  
Kinnickinnic River.  
Washington Street Dock.  
Three Mead Towers with clam shells.  
One 5 ton and two 2 ton clam shells used.  
Capacity per 10 hours 8,000 tons.  
Depth of water at dock 20 feet.  
Storage capacity 250,000 tons.  
Maximum length of boat 600 feet.  
Supt. W. F. Ardern.

**Milwaukee-Western Fuel Co.—**

14 Grand Ave.  
Kinnickinnic River.  
Kinnickinnic Avenue Dock.  
Five Portable Tower Type.  
1 ton clam shells used.  
Capacity per 10 hours hard coal 4,500 tons.  
Capacity per 10 hours soft coal 1,500 tons.  
Depth of water at dock 19 feet.  
Can handle any length boat.  
Storage capacity 85,000 tons.  
Supt. W. F. Ardern.

**Milwaukee-Western Fuel Co.—**

14 Grand Ave.  
Kinnickinnic River.  
Greenfield Avenue Dock.  
Three Portable Bridge Type. Heyl & Patterson.  
2½ ton clam shells used.  
Capacity per 10 hours 4,000 tons.  
Storage capacity 150,000.  
Depth of water at dock 20 feet.

Can handle any length boat.

Supt. W. F. Ardern.

**Milwaukee-Western Fuel Co.—**

14 Grand Ave.  
Fifteenth St. Dock.  
One Portable Bridge Type Man Trolley.  
Eight ton clam shells used.  
Capacity per 10 hours, 8,000 tons.  
Method of storage direct with clam shell.  
Storage capacity, 200,000 tons.  
Depth of water at dock 20 feet.

**Milwaukee-Western Fuel Co.—**

14 Grand Ave.  
Anthracite Dock.  
North Menominee River.  
Sixteenth Street Dock.  
Two Mead Towers.  
Size of clam shell used 2½ tons.  
Capacity per 10 hours hard coal 5,000 tons.  
Storage capacity 100,000 tons.  
Depth of water at dock 20 feet.  
Can handle any length boat.  
Supt. W. F. Ardern.

**Milwaukee-Western Fuel Co.**

North Menominee River (20th St. Dock).  
Six Brown Hoists.  
One ton buckets used.  
Capacity per 10 hours 2,500 tons.  
Storage capacity 150,000.  
Can handle boats of any length.  
Depth of water at dock 20 feet.

**Milwaukee-Western Fuel Co.—**

14 Grand Ave.  
Bituminous Dock.  
North Menominee River.  
Sixteenth Street Dock.  
Two Portable Bridge.

COAL DOCKS OF THE GREAT LAKES—Continued

8 ton clam shell used.  
Capacity per 10 hours 10,000 tons.  
Storage capacity 150,000 tons.  
Depth of water at dock 20 feet.  
Can handle any length boat.  
Supt. W. F. Ardern.

**Milwaukee-Western Fuel Co.—**

14 Grand Ave.  
North Menominee River.  
Canal Street Dock (Muskego Ave. Bridge).  
Eight Non-Portable Rigs.  
One ton buckets used.  
Capacity per 10 hours hard coal 4,000 tons  
Capacity per 10 hours soft coal 3,000 tons.  
Depth of water at dock 20 feet.  
Storage capacity 150,000 tons.  
Can handle any length boat.  
Supt. W. F. Ardern.

**Milwaukee-Western Fuel Co.—**

14 Grand Ave.  
South Menominee River & Elevator E.  
Pabst Slip.  
Six Portable Tower Type.  
1 ton buckets used.  
Capacity per 10 hours soft coal 1,500 tons  
Depth of water at dock 19 feet.  
Storage capacity 75,000 tons.  
Maximum length of boat 380 feet.  
Supt. W. F. Ardern.

**North Side Coal Co.—**

Milwaukee River.  
Commerce Street.  
Three Figure 4 Rigs.  
Capacity per 10 hours 750 tons.  
Storage capacity 7,500 tons.  
Maximum length of boat 300 feet.

**Philadelphia & Reading Coal & Iron Co.—**

Majestic Bldg.  
North Menominee River.  
West 16th Street Viaduct.  
Four Brown Hoists (Anthracite Dock).  
1 ton clam shells used.  
1 ton buckets used.  
Capacity per 10 hours 1,500 tons.  
Two Brown Hoists (Soft Coal Dock)  
1 ton clam shells used.  
1 ton buckets used.  
Capacity per 10 hours 700 tons.  
Capacity per 10 hours slack coal 1,000 tons.  
Storage capacity anthracite 60,000 tons.  
Storage capacity soft coal 40,000 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 460 feet.  
R. R. connections, St. Paul, C. & N. W., Soo.  
Supt. John T. Berns.

**Schlitz Brewing Co., Joseph—**

Milwaukee River.  
Two Portable Bridge Type.  
2 ton clam shells used.  
Capacity per 10 hours 2,000 tons.  
Depth of water at dock 20 feet.  
Storage capacity 65,000 tons.  
Maximum length of boat 505 feet, 52 foot beam.  
R. R. connections, C. M. & St. P.  
Supt. U. B. Uihlein.

**St. Paul & Western Coal Co.—**

North Menominee Canal.  
Canal Street Dock.  
Six Brown Hoists.  
1 ton clam shells used.  
1 ton buckets used.

COAL DOCKS OF THE GREAT LAKES—Continued

Capacity per 10 hours 2,000 tons.  
Storage capacity 100,000 tons.  
Depth of water at dock 18 feet.  
Can handle any length boat.  
R. R. connections, St. Paul, C. & N. W., Soo.  
Supt. H. M. White.

**Wisconsin Coal & Dock Co.—**

629 Canal St.  
South Menominee Canal at Pabst Slip.  
Three Portable Tower Type Rigs (Berghoefer).  
1½ ton clam shells used.  
1 ton buckets used.  
Capacity per 10 hours 1,500 tons.  
Storage capacity 90,000 tons.  
Depth of water at dock 19 feet.  
Maximum length of boat 340 feet.  
R. R. connections, St. Paul, C. & N. W., Soo.  
Supt. J. C. Booth.

**Wisconsin Coal & Dock Co.**

Independent Dock, National Ave.  
Kinnickinnic River.  
One Steel Bridge.  
3 and 4 ton clam shells used.  
Capacity per 10 hours 2,000 tons soft coal.  
Capacity per 10 hours 3,000 tons hard coal.  
Depth of water at dock 21 feet.  
Can handle any length boat.  
R. R. connections, C. & N. W.  
Supt. Arthur Brown.

**Wisconsin Coal & Dock Co. (Y. & O.)—**

West Menominee River, at 22d Street.  
25th Street Dock.  
Three Brown Hoists.  
2¼ ton clam shells used.  
1 ton buckets used.

Capacity per 10 hours 3,000 tons.  
Storage capacity 70,000 tons.  
Depth of water at dock 20 feet.  
Maximum length of boat 600 feet  
Supt. A. Fahl.

**Youghiogeny & Ohio Coal Co.—**

South Menominee River (Wagner Slip).  
Two Electric Meads.  
4 ton clam shells used.  
Capacity per 10 hours 4,000 tons.  
Storage capacity 200,000 tons.  
Depth of water at dock 20 feet.  
Maximum length of boat 430 feet.  
R. R. connections, St. Paul, C. & N. W., Soo.  
Supt. B. J. Boyle.

MOHAWK, MICH.

**Mohawk Mining Co.—**

Three Ellington Hoists.  
¼ ton buckets used.  
Capacity per 10 hours 800 tons.  
Storage capacity 60,000 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 350 feet.  
Supt. Andro Picotte.

**Wolverine Copper Co.—**

Coal unloaded over the dock of the Mohawk Mining Co.

MONTREAL, CAN.

**American Locomotive Co.—**

Longue Point.  
One Beatty Whirley.  
1 ton bucket used.  
Capacity per 10 hours 600 tons.  
Storage capacity 30,000 tons.  
Supt. H. L. Breckenridge.



COAL DOCKS OF THE GREAT LAKES—Continued

**Canada Cement Co., Ltd., Plant No. 1—**

Herald Bldg.  
 Pointe-aux-Trembles.  
 One Mead Morrison Bridge.  
 4 ton clam shell used.  
 Capacity per 10 hours 2,400 tons.  
 Storage capacity 120,000 tons.  
 Depth of water at dock 25 feet.  
 Maximum length of boat 600 feet.  
 Supt. F. B. Kilbourn.

**Canada Cement Co., Ltd.—**

Herald Bldg.  
 Montreal Harbor.  
 One Mead Morrison.  
 1 ton bucket used.  
 Capacity per 10 hours 700 tons.  
 Depth of water at dock 25 to 30 feet.  
 Maximum length of boat 600 feet.  
 Supt. F. B. Kilbourn.

**Canadian Import Co.—**

Bickerdike Pier Dock.  
 Near entrance of Lachine Canal.  
 Two Cantilever towers.  
 Size of clam shells used 1½ ton.  
 Capacity per 10 hours 2,000 tons.  
 One Brown Hoist.  
 Size of clam shells used 1¼ ton.  
 Capacity per 10 hours 400 tons.  
 Storage capacity 100,000 tons.  
 Depth of water at dock 30 ft.  
 R. R. connection, G. T.  
 Supt. W. Q. Stobo.

**Canada Sugar Refining Co.—**

Wellington Basin, Lachine Canal.  
 1 Jeffrays Unloading Rig.

Capacity each set, per 10 hours, 600 tons.

Storage capacity 10,000 tons.

Depth of water boats can draw arriving at dock 14 ft. 6 in.

Maximum length of boat that can reach dock 250 feet.

Railroad connections, C. P. R. & G. T.

Supt. Mr. Bowers.

**Canadian Tube & Iron Co.—**

Located in Lachine Canal.

1 Mead Morrison.

Size of clam shells used 1 ton.

Capacity per 10 hours 600 tons.

Storage capacity 10,000 tons.

Depth of water at dock 14 feet.

Maximum length of boat 256 feet.

Supt. M. Mosley.

**Dominion Coal Co., Ltd.—**

Hochelago, Windmill Point.

Mead Morrison.

Two sets 5 towers each.

Size of clam shells used 2 ton.

Capacity each set per hour 1,000 tons.

Two Brown Hoists on Barges.

Capacity per 10 hours 700 tons each.

Storage capacity 150,000 tons.

Depth of water at dock 26 feet.

Supt. A. MacKenzie.

**Empire Coal Co., Ltd. (Old Intercolonial Dock)—**

Transportation Bldg.

Coal handled over Canada Cement Co. Dock No. 1.

**Hall Coal Co., Ltd., George—**

Lachine Canal.

2 Mead-Morrison.

Size of clam shell used 1 1-4 ton.

Capacity per 10 hours 1,250 tons.

1 Ore Electric.

COAL DOCKS OF THE GREAT LAKES—Continued

1 ton bucket used.  
Capacity 600 tons.  
Storage capacity 100,000 tons.  
Depth of water at dock 14 feet.  
Maximum length of boat 254 feet.  
Supt. C. W. Kelly.

**Montreal Light, Heat & Power Co.—**  
Lasalle Gas Works (Lachine Canal).  
One Mead Morrison.  
2½ ton clam shell used.  
Capacity per 10 hours 2,500 tons.  
Storage capacity 100,000 tons.  
Depth of water at dock 14 feet 6 inches.  
Maximum length of boat 256 feet.  
Supt. Sam Skinner.

**Montreal Light, Heat & Power Co.—**  
Hochelaga Montreal Harbor.  
One Mead Morrison.  
2½ ton clam shells used.  
Capacity per 10 hours 2,500 tons.  
Storage capacity 100,000 tons.  
Depth of water at dock 33 feet.  
Maximum length of boat 550 feet.  
Supt. Sam Skinner.

**Nova Scotia Steel & Coal Co., Ltd.—**  
Bickerdike Pier, Windmill Point.  
Two Towers.  
1½ ton clam shells used.  
Capacity per 10 hours 2,000 tons.  
One Brown Hoist.  
1¼ ton clam shells used.  
Capacity per 10 hours 600 tons.  
Storage capacity 45,000 tons.  
Depth of water at dock 28 feet.  
Maximum length of boat 650 feet.

**Ogdensburg Coal & Towing Co.—**  
No. 1 Basin, Lachine Canal.  
One Geared Lidgerwood.  
One Direct Hoist.  
1½ ton clam shells used.  
Capacity per 10 hours 1,200 tons.  
Depth of water at dock 14 feet.  
Maximum length of boat 260 feet.

**Ogdensburg Coal & Towing Co.—**  
Str. Henry, Lachine Canal.  
One Mead Morrison.  
1½ ton clam shell used.  
Capacity per 10 hours 600 tons.  
Depth of water at dock 14 feet.  
Maximum length of boat 260 feet.

**Robertson, Farquhar—**  
No. 3 Basin, Lachine Canal.  
One Mead Morrison.  
1¼ ton clam shell used.  
Capacity per 10 hours 150 tons.  
Storage capacity 35,000 tons.  
Depth of water at dock 14 feet.  
Can handle any length boat.  
Supt. Duncan Robertson.

**Routh & Son, F. A.—**  
One Rig installed on Bge. McMartin.  
Clam shell used.  
Capacity per 10 hours 500 tons.

**The Steel Company of Canada—**  
Montreal Rolling Mills Branch.  
Located in the Lachine Canal.  
1 Mead-Morrison.  
Size of clam shells used 1 ton.  
Capacity per 10 hours 600 tons.  
Storage capacity 12,000 tons.  
Depth of water at dock 14 feet 6 inches.

Maximum length of boat 250 feet.  
Supt. H. M. Jaquays.

**The Steel Company of Canada—**

St. Henry Mills Branch.  
Located on the Lachine Canal,  
1 Mead-Morrison.  
Size of clam shell used 1 ton.  
Capacity per 10 hours 600 tons.  
Storage capacity 15,000 tons.  
Depth of water at dock 14 feet 6 inches  
Maximum length of boat 250 feet.  
Supt. H. M. Jaquays.

**MUNISING, MICH.**

**Cleveland-Cliffs Iron Co.—**

Half barrels used.  
Steamer to do the hoisting.  
Storage capacity 3,500 tons.  
Depth of water at dock 22 feet.  
Can handle any size boat.

**Munising Leather Co.—**

East side of the Bay.  
No unloading equipment.  
Storage capacity 800 tons.  
Depth of water at dock 12 feet.  
Maximum length of boat 110 feet.  
Supt. John Allen.

**MUSKEGON, MICH.**

**Bauknecht Brothers—**

One Parker Derrick.  
 $\frac{1}{2}$  ton bucket used.  
Capacity per 10 hours 250 tons.  
Depth of water at dock 14 feet.  
Can handle boats of any size.  
Supt. Paddy Maher.

**Magoon & Kimball Co.—**

One Steam Drum.  
300 pound buckets used.  
Capacity per 10 hours 250 tons  
Storage capacity 3,000 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 225 feet.  
Supt. George A. McKay.

**OWEN SOUND, ONT.**

**Electric Light Dock—**

C. Hazelton, operator.  
Two Hoists.  
Size of buckets used 300 pounds.  
Capacity per 10 hours 300 tons.  
Storage capacity 2,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size boat.  
Supt. Joseph McLinden.

**Canadian Malleable Iron Co., Ltd.—**

No Machines.  
Storage capacity 5,000.  
Depth of water 14 feet. Expect to dredge to 20 feet.  
Can handle boats of any length.

**Creighton, A. J. (Government & Sun Cement Dock)—**

Unload with Horses.  
Capacity per 10 hours 300 tons.  
Depth of water 20 feet.  
Storage capacity 3,000 tons.  
Maximum length boat 450 feet.  
R. R. connections, G. T., C. P. R.

**Canadian Pacific Railway Co.—**

One McMyler with Clam.  
Capacity per day 400 tons.

**Davis-Smith-Malone Co., Ltd.—**

North of C. P. R. Dock.

COAL DOCKS OF THE GREAT LAKES—Continued

**Horse Rigs.**

Use from 2 to 4 hoists according to the size of the vessel  
Capacity per hoist 100 tons per day.  
Storage capacity 7,500 tons.  
Depth of water at dock 20 feet.  
Can handle boats of any length.  
J. M. Davis, Pres & Mgr.

**Gas Dock—**

4 Horse Hoists.  
Size of buckets used 400 lbs.  
Capacity 10 hours 150 tons.  
Storage capacity 3,500 tons.  
Depth of water 16 feet.  
R. R. Connections, G. T., C. P. R.  
Supt. J. R. McLinden.

**Imperial Cement Co., Ltd.—**

One Brown Hoist.  
1¼ ton clam shell used.  
Capacity per 10 hours 450 tons.  
Storage capacity 7,000 tons.  
Maximum length of boat 300 feet.  
Depth of water at dock 17 feet.

**McLauchlan Supply Co., Ltd., J. K.—**

Horses and Buckets  
Size of buckets used 350 pounds.  
Capacity per 10 hours 300 tons.  
Depth of water at dock 16 feet.  
Maximum length of boat 400 feet.

**Doric Portland Cement Co., Ltd.—**

One McMyler.  
¾ ton clam shell used.  
Capacity per 10 hours 600 tons.  
Storage capacity 12,000 tons.  
Depth of water at dock 20 feet.  
Can handle boats of any length.  
Supt. M. Smith.

**PARRY SOUND, ONT.**

**Beatty Co., Ltd., William—**

Unload with Horses.  
Size of buckets used 400 pounds.  
Capacity per 10 hours 225 tons.  
Storage capacity 3,000 tons.  
Depth of water at dock 18 feet.

**Galna & Danter—**

Unload with Horses.  
Capacity per 10 hours 150 tons.  
Depth of water at dock 16 feet.

**PENETANGUISHENE, ONT.**

**Breithaupt Leather Co.—**

Unload with Horses.  
Capacity per day 150 tons.

**PICTON, ONT.**

**Hepburn Brothers—**

Saginaw Steam Winch.

**POINT EDWARD, ONT.**

**Northern Navigation Co., Ltd.—**

One McMyler.  
1½ ton clam shell used.  
Capacity per 10 hours 500 tons.  
Storage capacity 3,000 tons.  
Depth of water at dock 20 feet.  
Supt. W. J. McCormack.

**PORT ARTHUR, ONT.**

**Atikoken Iron Co., Ltd.—**

One Brown Locomotive Crane.  
One McMyler Whirley.  
Capacity per 10 hours 400 tons.

**Canadian Northern Coal & Ore Dock Co., Ltd.—**

Four Mead Morrison.

COAL DOCKS OF THE GREAT LAKES—Continued

2 ton clam shells used.  
Capacity per 10 hours 7,000 tons.  
Storage capacity 500,000 tons.  
Depth of water at dock 20 feet.  
Can unload boats of any size.  
R. R. connections, C. N., C. P. R., G. T. P.  
Supt. M. O'Leary.  
O. Ruby, Lake Forwarding Agent, Rockefeller Bldg., Cleve., O.

**Steel Rail Unloading Docks—**

Canadian Northern Railway.

**PORT COLBORNE, ONT.**

**Port Colborne Dock & Coal Co., Ltd.—**

Two Whirlies.  
1 and 1¼ ton clam shell for unloading.  
2¼ ton clam shell for fueling.  
Capacity per 10 hours 1,500 tons.  
Work night and day during season of navigation.  
Depth of water at dock 17 feet.  
Can handle any length boat.  
R. R. connections, G. T.  
Supt. T. Lewis.

**PORT DALHOUSIE, ONT.**

**Hutchinson Estate (Fueling Dock)—**

One Hoist, 90 foot boom.  
Capacity per 10 hours 300 tons.  
Size of buckets used 2 ton.  
Storage capacity 1,000 tons.  
Storage capacity of fuel dock 350 tons.  
Depth of water at dock 16 feet.  
R. R. connections, G. T.  
Supt. Edw. Quackenbush.

**PORT HURON, MICH.**

**Kern Brewing Co.—**

One Steam Hoist.

Capacity per 10 hours 350 tons.  
Depth of water at dock 13 feet 6 inches.

**McCullom & Co., I. E.—**

One Steam Derrick.  
1 ton buckets used.  
Capacity per 9 hours 300 tons.  
Storage capacity 6,000 tons.  
Depth of water at dock 14 to 15 feet.  
Maximum length of boat 250 feet.

**Michigan Sulphite Fibre Co.—**

One Whirley.  
1 ton clam shell used.  
One Hoist.  
1 ton bucket used.  
Capacity per 10 hours 650 tons.  
Depth of water at dock 14 feet.  
Maximum length of boat 225 feet.  
Supt. E. W. Kiefer.

**Miller & Son, J. E.—**

One McMyler.  
1 ton buckets used.  
Capacity per 10 hours 400 tons.  
Depth of water at dock 22 feet.  
Can handle any size boats.  
Fueling dock.  
Storage capacity 3,000 tons.  
Supt. J. E. Fellows.

**Northwestern S. S. Co.—**

One Whirley.  
1 ton clam shell used.  
Capacity per 10 hours 500 tons.  
Storage capacity 6,000 tons.  
Depth of water at dock 23 feet.  
R. R. connections, G. T., P. M., D. B., C. & W.

COAL DOCKS OF THE GREAT LAKES—Continued

**Port Huron Gas & Electric Light Co. (Electric Plant)—**

One Electric Crane.  
Use a 1 ton clam shell.  
Capacity per 10 hours 500 tons.  
One Whirley.  
 $\frac{3}{4}$  ton clam shell used.  
Capacity 10 hours 450 tons.  
Storage capacity 7,000 tons.  
Annual consumption 13,000 tons.  
Depth of water at dock 17 feet.  
Can handle boats of 275 feet length.  
Supt. Frank J. E. O'Hara.

**Port Huron Gas & Electric Co. (Gas Plant)—**

One Steam Derrick.  
1 ton buckets used.  
Capacity per 10 hours 300 tons.  
Storage capacity 7,000 tons.  
Depth of water at dock 13 feet.  
Maximum length of boat 300 feet.  
Supt. J. C. Sloan.

**Port Huron Salt Co.—**

One Whirley.  
 $\frac{3}{4}$  ton clam shell used.  
 $\frac{3}{4}$  ton bucket used.  
Capacity per 10 hours 500 tons.  
Depth of water at dock 17 feet.  
Can handle boats of any length.  
Supt. Otto Huette.

**Port Huron & Sarnia Ferry Co.—**

One Horse Hoist.  
Capacity per 10 hours 150 tons.  
Storage capacity 750 tons.  
Depth of water at dock 14 feet.  
Maximum length of boat 300 feet.

**Thompson Coal Co.—**

One McMyler.

Capacity per 10 hours 500 tons.

**PORT McNICOLL, ONT.**

**Canadian Pacific Railway Coal Dock—**

Two Mead-Morrison Hoisting Machines.  
Size of clam shells used 2 ton.  
Capacity per 10 hours 1,500 tons.  
Storage capacity 25,000 tons.  
Depth of water at dock 20 feet.  
Maximum length of boat 500 feet.  
Supt. J. Little.

**PORT WASHINGTON, WIS**

**Milwaukee Northern Electric Ry. Co.—**

One Whirley.  
Size of clam shell used  $1\frac{1}{2}$  ton.  
Size of buckets used 1 ton.  
Capacity per 10 hours 400 tons.  
Storage capacity 5,000 tons.  
Depth of water at dock 16 feet.  
Maximum length of boat 360 feet.  
Supt. F. W. Walker.

**Port Washington Fuel Co.—**

Two Figure Four Rigs.  
 $\frac{1}{2}$  ton buckets used.  
Capacity per 10 hours 400 tons.  
Storage capacity 7,000 tons.  
Depth of water at dock 16 feet.  
Maximum length of boat 215 feet.  
Supt. W. C. Mitchell.

**QUEBEC, QUEBEC**

**Canadian Import Co.—**

Louise Dock, Louise Basin.  
Three Mead Morrison.  
Size of clam shells used  $1\frac{1}{2}$  ton.  
Capacity per 10 hours 1,200 tons each tower.  
Storage capacity 50,000 tons.

COAL DOCKS OF THE GREAT LAKES—Continued

Depth of water at dock 25 feet.  
R. R. connections, C. P. R., C., N., Q. & L. St. John.  
Supt. D. Burrige.

**Dominion Coal Co., Ltd.—**

Louise Basin.  
Two Steeple Towers.  
2 ton clam shells used.  
Capacity of steel packets 5,000 tons.  
Capacity 500 tons per hour.  
Storage capacity 25,000 tons.  
Depth of water at dock 28 feet.  
Maximum length of boat 400 feet.  
Supt. William Lambton.

**Nova Scotia Steel & Coal Co., Ltd.—**

Two towers.  
Size of clam shells used 1½ ton.  
Capacity per 10 hours 1,800 tons.

**RACINE, WIS.**

**Carroll Coal Co.—**

Two Figure 4 rigs.  
½ ton buckets used.  
Capacity per 10 hours 800 tons.  
Storage capacity 10,000 tons.  
Depth of water at dock 16 feet 6 inches.  
Maximum length of boat 300 feet.  
R. R. connections, St. Paul.  
Supt. Geo. T. Caystill.

**Pugh, W. H., Dock No. 1—**

Two Mead Morrison.  
1 ton clam shells used.  
Capacity per 10 hours 1,000 tons.  
Depth of water at dock 18 feet.  
Storage capacity 60,000 tons.  
Can handle boats of any length.  
R. R. connections, St. Paul.

**Pugh, W. H., Dock No. 2—**

Two Steam Hoists (Borden-Sellich).  
½ ton buckets used.  
Capacity per 10 hours 900 tons.  
Storage capacity 50,000 tons.  
Depth of water at dock 16 feet.

**Pugh, W. H.—**

Three Figure 4 rigs.  
½ ton buckets used.  
½ ton clam shells used.  
Capacity per 10 hours hard coal 800 tons.  
Capacity per 10 hours soft coal 600 tons.  
Maximum length of boat 350 feet.  
Depth of water at dock 17 feet 6 inches.  
Storage capacity 24,000 tons.  
R. R. connections, St. Paul, C. & N. W.

**Racine Fuel Co.—**

Two Steam Hoists.  
Capacity per 10 hours 700 tons.  
Depth of water at dock 16 feet.

**Racine Gas Light Co.—**

Three Hunt Hoists.  
¾ ton buckets used.  
Capacity per 10 hours 800 tons.  
Storage capacity 15,000 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 350 feet.  
D. E. Callender, Mgr.

**ROND EAU, ONT.**

**Lake Erie Nav. Co., Walkerville, Ont.—**

2 Machines.  
5 and 3 ton clam shells used.  
Capacity 10 hours 2,500 tons.  
One Whirley.  
2 ton clam shells used.

COAL DOCKS OF THE GREAT LAKES—Continued

Storage capacity 100,000 tons.  
 Depth of water at Dock 15 feet.  
 Can handle boats of any length.  
 R. R. connections, P. M., M. C. G. T., C. P. R.

**SAGINAW, MICH.**

**Saginaw Coal Co.—**

Consolidated Coal Co., Operators.  
 One Steam Hoist.  
 Size of clam shell used 2 ton.  
 Capacity per 10 hours 600 tons.  
 Storage capacity 10,000 tons.  
 Depth of water at dock 10 to 12 feet.  
 Supt. W. E. Goodman.

**SARNIA, ONT.**

**Clark Coal Co.—**

Unload with Horses.  
 Capacity per 10 hours 100 tons.

**Garrock, John—**

One Revolving Crane and Horses.  
 Capacity per 10 hours 300 tons.

**Imperial Oil Co., Ltd.—**

One Revolving Crane.  
 1 ton clam shell used.  
 Capacity per day 400 tons.  
 Storage capacity 40,000 tons.  
 Depth of water at dock 19 feet.  
 Maximum length of boat 300 feet.

**Northern Navigation Co.—**

One Whirley.  
 1 ton clam shell used.  
 Capacity per 10 hours 500 tons.  
 Storage capacity 3,000 tons.  
 Depth of water at dock 18 feet.  
 Can handle boats of any length.  
 Supt. W. J. McCormack.

**SANDUSKY, OHIO**

**Lower Lake Dock Co. (Short Line)—**

Leader-News Bldg., Cleveland, Ohio.  
 Car Dump.  
 Supt. C. C. Hand.

**Baltimore & Ohio—**

Coal Trestle.

**SAULT STE. MARIE, MICH**

**Kemp Bros. Coal Co., (Hard Coal Dock)—**

Two McMylers.  
 2 ton clam shell used.  
 1½ ton clam shell used.  
 1 ton bucket used.  
 Capacity per 10 hours 1,000 tons.  
 Depth of water at dock 15 feet.

**Kemp Bros. Coal Co.**

Two Whirlies.  
 1½ ton clam shells used.  
 1 ton buckets used.  
 Capacity per 10 hours 1,500 tons.  
 Depth of water at dock 22 feet.  
 Maximum length of boat 400 feet.  
 Can fuel boats of any length.

**Perry, Frank—**

2 ton clam shell used.  
 Capacity per 10 hours 600 tons.  
 Storage capacity 15,000 tons.  
 Depth of water at dock 24 feet.  
 Can handle any size boat.  
 Supt. Fred Smith.

**Port Royal Dock Co.—**

Three Wellman-Searce-Morgan Whirlies.  
 2 ton clam shells used.  
 2 ton buckets used.  
 Capacity per 10 hours 2,500 tons.



COAL DOCKS OF THE GREAT LAKES—Continued

1 McMyler Whirley.  
2 ton bucket used.  
Capacity 10 hours 500 tons.  
Storage capacity 25,000 tons.  
Depth of water at dock 24 feet.  
Maximum length of boat 600 feet.  
Supt. T. F. Falkner.

**Port Royal Dock Co. (Algonquin)—**

Dock located above the Locks on the port side.  
2 Whirlies.  
Capacity per 10 hours 1,800 tons.  
Size of clam shells used 2 ton.  
2 McMyler Whirlies.  
1 ton buckets used.  
Capacity 10 hours 500 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 400 feet.  
R. R. Connections, D. S. S. & A., Soo, C. P. R.  
Tom F. Falkner.

**Union Carbide Co.—**

One Mead Morrison.  
1¼ ton clam shell used.  
Capacity per 10 hours 900 tons.  
Operate Day and Night.  
Storage capacity 50,000 tons.  
Depth of water at dock 21 feet.  
Maximum length of boat 500 feet.  
R. R. connections, Soo, D. S. S. & A., C. P. R., A. C. R.  
Supt. P. P. Huffard.

**SAULT STE. MARIE, ONT.**

**Algoma Central Railway Dock—**

One Brown Hoist.  
Use a 3 ton clam shell.  
Capacity per 10 hours 2,000 tons.  
Depth of water at dock 22 feet.

Storage capacity 100,000 tons.  
Can handle any length boat.  
R. R. connections, A. C. & H. B., C. P. R.  
Supt. R. S. McCormick.

**Algoma Steel Corporation, Ltd.—**

3 Heyl & Patterson.  
3 ton clam shells used.  
Capacity per 10 hours 6,000 tons.  
Depth of water at dock 22 feet.  
Storage capacity 650,000 tons.  
Can handle boat of any length.  
R. R. connections, C. P. R., A. C., H. B.  
Supt. J. A. MacColl.

**New Ontario Dock (C. S. S. Lines)—**

2 King bridges.  
Size of clam shell used 2½ tons.  
Capacity per 10 hours 2,000 tons.  
One Fairbanks Morse Tower.  
Use a 1½ ton clam shell.  
Capacity per 10 hours 1,500 tons.  
1 Industrial Locomotive crane.  
Use a 1½ ton clam shell.  
Use a 1 ton bucket.  
Capacity per 10 hours 500 tons.  
Storage capacity 100,000 tons.  
Maximum length of boat 400 feet.  
Depth of water at dock 20 feet.  
R. R. connections, A. C. & H. B., C. P. R.  
Supt. W. F. Gilchriese.  
O. Ruby, Lake Forwarding Agent, Rockefeller Bldg., Cleve., O.

**West Government Dock—**

One McMyler.  
1½ ton buckets used.  
Capacity per 10 hours 1,000 tons.

COAL DOCKS OF THE GREAT LAKES—Continued

Depth of water at dock 18 feet.  
Storage capacity 15,000 tons.  
300 foot boats.  
G. G. Farwell, Pres.

**SAWYER, WIS.**

**Lyon Brothers—**

Horses and Buckets.  
Capacity per 10 hours 150 tons.

**SHEBOYGAN, WIS.**

**Sheboygan Coal Co.—**

2 Hoists.  
1 ton clam shells used.  
Capacity per 10 hours 700 tons.  
Depth of water at dock 18 feet 6 inches.  
Maximum length of boat 300 feet.  
Supt. Louis Anderson.

**Reiss Coal Co., C. (Dock No. 1)—**

Four Mead Morrison.  
2 ton clam shells used.  
Capacity per 10 hours 8,000 tons.  
Depth of water at dock 19 feet.  
Can handle boats of any size.  
R. R. connection, C. & N. W.  
Supt. L. H. Bullock.

**Reiss Coal Co., C. (Dock No. 3)—**

Seven Figure 4 Hoists.  
¾ ton buckets used.  
Capacity per 10 hours 2,500 tons.  
Depth of water at dock 19 feet.

**SOREL, QUEBEC**

**Lavelle, Alfred—**

One Hoist.  
Capacity per 15 hours 1,500 tons.

**SOUTH CHICAGO, ILL**

**By-Products Coke Corporation—**  
112th Street.

Two Steam Rigs.  
Size of clam shells used 2½ tons.  
Capacity per 10 hours 5,000 tons.  
One Electric Rig.  
Size of clam shell used 4 tons.  
Capacity per 10 hours 5,000 tons.  
Storage capacity 400,000 tons.  
Depth of water at dock 21 feet.  
Maximum length of boat 565 feet.  
Supt. Wm. H. Allen, Jr.

**Hedstrom & Co., E. L., 95th St.—**

Three Mead Morrison.  
Size of clam shells used 1 ton.  
Capacity per 10 hours 3,000 tons.  
Storage capacity 60,000 tons.  
Depth of water at dock 20 feet.  
Maximum length of boat 525 feet.  
Supt. James Kinney.

**Lehigh Valley Coal Co., 100th St.—**

Five McMyers.  
Size of clam shells used 1½ tons.  
Capacity per 10 hours small boats 3,000 tons.  
Capacity per 10 hours on large boats 4,000 tons.  
Storage capacity 100,000 tons.  
Depth of water at dock 20 feet.  
Maximum length of boat 480 feet.  
Supt. A. Wallace.

**Philadelphia & Reading, 96th St.—**

Two Grabs and Three Hoists.  
Capacity per 10 hours 2,000 tons.

**Illinois Steel Co. (Rail Loading Dock)—**

North Slip Dock.  
Locomotive cranes used.  
Use any number machines necessary.  
Work day and night.

Capacity 2,400 tons in 48 hours.  
Depth of water at dock 20 feet.  
Can load two medium sized boats at once.

**Pittsburgh Coal Co.—**

South of So. Chicago Elevators.  
Two Whirlies. 1 ton clam shells used.  
Capacity per 10 hours 800 tons.  
Depth of water at dock 22 feet.  
Maximum length of boat 300 feet.  
Supt. C. H. Wallace.

**Illinois Steel Co. (Rail Loading Dock)—**

South Slip Dock.  
Locomotive cranes used.  
Use any number machines necessary.  
Work day and night.  
Capacity 2,400 tons in 48 hours.  
Depth of water at dock 20 feet.  
Can load two medium sized boats at once.

**ST. JAMES, MICH. (BEAVER ISLAND)**

**James McCann—**

Boat to do the Hoisting.  
Capacity per 10 hours 250 tons.

**ST. CLAIR, MICH.**

**Baby & Dale—**

Storage capacity 1,000 tons.  
Depth of water at dock 15 feet.  
Maximum length of boat 200 feet.

**Diamond Crystal Salt Co.—**

One Hoist.  
Size of clam shell used 2 tons.  
Capacity per 10 hours 900 tons.  
Storage capacity 50,000 tons.  
Depth of water at dock 19 feet.  
Maximum length of boat 600 feet  
Supt. Fred W. Moore.

**Port Huron Salt Co.—**

Two Horse Rigs.  
 $\frac{1}{4}$  ton buckets used.  
Capacity per 10 hours 200 tons.  
Depth of water at dock 14 feet 6 inches  
Maximum length of boat 400 feet.  
Supt. L. H. Meno.

**ST. IGNACE, MICH.**

**Chambers Dock—**

Unload with Horses.  
Capacity per 10 hours 200 tons.

**City Dock—**

One Rig.  
Capacity per 10 hours 250 tons.

**Duluth, South Shore & Atlantic Ry. Co.—**

Four Hoists.  
 $\frac{1}{2}$  ton buckets used.  
Capacity per 10 hours 800 tons.  
Storage capacity 5,000 tons.  
Depth of water at dock 19 feet.  
Can handle boats of any length.  
R. R. connections, D. S. S. & A.  
Depth of water at dock 19 feet.  
Can handle boats of any length.

**STURGEON BAY, WIS.**

**City Dock—**

Three Horse Rigs.  
Capacity per 10 hours 300 tons.

**Green Stone & Quarrying Co.—**

Three Horse Hoists.  
Barrel buckets used.  
Capacity per 10 hours 300 tons.  
Storage capacity 1,000 tons.  
Depth of water at dock 16 feet.  
Maximum beam of boat 38 feet.  
Supt. A. O. Green.

**Leathem & Smith Towing & Wrecking Co.—**

One Steam Hoist.  
1 ton bucket used.  
Two Steam Derricks.  
Storage capacity 2,000 tons.  
Depth of water at dock 15 feet.  
Maximum length of boat 250 feet.  
Supt. T. H. Smith.

**Lyon Brothers—**

Two Horse Rigs.  
Capacity per 10 hours 200 tons.

SUPERIOR, WIS.

**Berwind Fuel Co. Dock No. 1—**

Four Link Belt Co. rigs.  
Size of clam shells 4 tons.  
Capacity per 10 hours 11,000 tons.  
Storage capacity 700,000 tons.  
Depth of water at dock 20 feet.  
Can handle boats of any length.  
R. R. connections, G. N. & L. S. T. & T. Ry.  
Supt. W. K. Link.

**Carnegie Dock & Fuel Co., No. 1 (Old G. N. No. 5)—**

Minneapolis, Minn.  
Two Heyl & Patterson.  
5 ton clam shells used.  
Capacity per 10 hours 6,000 tons.  
Storage capacity 500,000 tons.  
Depth of water at dock 21 feet.  
Maximum length of boat 700 feet.  
R. R. connections, G. N., Omaha, N. P., Soo, D. S. S. & A.  
Supt. B. McNamara.

**Clarkson Coal & Dock Co.—**

"Rices Point" between Capitol & Consolidated Elev's.  
One Watson Patent, Last Plant.  
3 ton clam shell used.  
Capacity 24 hours, 3,000 tons.

4 Brown Hoists.

1 ton clam shells used.  
Capacity per 10 hours 2,000 tons.  
Storage capacity, 325,000 tons.  
Depth of water 20 feet.  
Can handle boats of any length.  
R. R. connections, N. P., Soo, Omaha, G. N., C. N., C. M. &  
St. P., D. & I. R., D. M. & N.  
Supt. Jos. J. Davidson.

**Great Lakes Coal & Dock Co. (P. & R.)—**

Minneapolis, Minn.  
One Mead Morrison.  
6 ton clam shells used.  
One Mead Morrison.  
2 ton clam shell used.  
Capacity per 10 hours soft coal 5,000 tons.  
Can handle boats of any length.  
Storage capacity 400,000 tons.  
R. R. connections, G. N., Omaha, N. P., Soo, D. S. S. & A.  
Supt. M. J. Bartelme.

**Hanna Dock Co., The M. A.—**

St. Paul, Minn.  
Three Mead Morrison.  
Size of clam shells used 2 tons.  
Size of buckets used 1 ton.  
Capacity per 10 hours 6,000 tons.  
3 Mead Bridges.  
2 ton buckets used.  
Capacity 10 hours 4,000 tons.  
Storage capacity 500,000 tons.  
Depth of water at dock 20 feet.  
Can handle boats of any length.  
R. R. connections, G. N., Omaha, N. P., Soo, D. S. S. & A.,  
St. Paul & C. N.  
Supt. A. E. Botsford.

**Island Creek Coal Dock Co., Dock No. 2—**

Island Creek Coal Sales Co., St. Paul, Minn.

COAL DOCKS OF THE GREAT LAKES—Continued

Old Jones & Adams Dock.

St. Louis Bay.

Two Brown Hoists.

Size of clam shells used 1½ ton.

Size of buckets used 1 ton.

Capacity per 10 hours 2,000 tons.

Storage capacity 140,000 tons.

Depth of water at dock 19 feet.

Can handle boats of any length.

R. R. connections, G. N., Omaha, N. P., Soo, D. S. S. & A.

Supt. Wm. Powers.

**Lehigh Valley Coal Sales Co.—**

Tower Bay Slip.

Three McMylers.

1½ ton clam shells used.

Capacity per 10 hours hard coal 5,000 tons.

Storage capacity 125,000 tons.

Depth of water at dock 20 feet.

Can handle boats of any length.

R. R. connections, G. N., N. P., Omaha, D. S. S. & A.

Supt. Emil Emmert.

**Morton Salt Co.—**

Tower Bay Slip.

Two Rigs.

½ ton buckets used.

Capacity per 10 hours 500 tons.

Storage capacity 9,000 tons.

Depth of water at dock 14 to 15 feet.

**Northern Coal & Dock Co.—**

New York Life Bldg., St. Paul, Minn.

Three Mead Morrison.

Clam shells used 2 tons.

Capacity per 10 hours, 5,000 tons.

Storage capacity 500,000 tons.

Depth of water at dock 20 feet.

Can handle boats of any length.

R. R. connections, all roads.

Supt. J. M. Selleck.

**North Western Fuel Co., Dock No. 1—**

St. Paul, Minn.

East Side of dock (Bituminous Section).

4 Brown Steel Towers.

Size of clam shells used 2 ton.

Capacity per 10 hours 6,000 tons.

West side of dock No. 1 (Bituminous Section).

One Heyl & Patterson.

Size of clam shell used 12 tons.

Capacity per 10 hours 6,000 tons.

Anthracite dock.

West side of No. 1 (Anthracite Section).

2 Heyl & Patterson.

Size of clam shells used 3 ton.

Capacity per 10 hours 5,000 tons.

Storage capacity 1,000,000 tons.

Depth of water at dock 21 feet.

R. R. connections, G. N., N. P., Omaha, Soo, D. S. S. & A., St.

Paul, D. M. & N., D. & I. R., C. N.

Supt. B. A. Galleher.

**North Western Fuel Co., Dock No. 2—**

St. Paul, Minn.

Three Heyl & Patterson.

Size of clam shells used 6 ton.

Capacity per 10 hours 10,000 tons.

Storage capacity 550,000 tons.

Depth of water at dock 21 feet.

Can handle boats of any length.

R. R. connections, G. N., N. P., Omaha, Soo, D. S. S. & A., St.

Paul, D. M. & N., D. I. R., C. N.

Supt. B. A. Galleher.

**North Western Fuel Co., Dock No. 3—**

St. Paul, Minn.

Seventeen Fixed Masts.

COAL DOCKS OF THE GREAT LAKES—Continued

1 ton buckets used.  
Capacity per 10 hours 3,000 tons.  
Storage capacity 100,000 tons.  
Depth of water at dock 21 feet.  
Can handle boats of any length.  
R. R. connection, Omaha, etc.  
Supt. B. A. Galleher.

**Philadelphia & Reading Coal & Iron Co.—**

Four Heyl & Patterson (2 for Anth., 2 for Bit.).  
Size of clam snells used 5 tons.  
Capacity per 10 hours 5,000 tons.  
Storage capacity 400,000 tons.  
Depth of water at dock 20 feet.  
Can handle boats of any length.  
R. R. connections, G. N., N. P., Omaha, Soo, D. S. S. & A., St.  
Paul, D. M. & N., D. & I. R., C. N.  
Supt. Frank McCreary.

**Pittsburgh Coal Co., Dock No. 5—**

Two Modern Brown Hoists.  
Size of clam shells used 5½ ton.  
Capacity per 10 hours 5,000 tons.  
Storage capacity 600,000 tons.  
Depth of water at dock 21 feet.  
Can handle boats of any length.  
R. R. connections, G. N., N. P., Omaha, Soo, D. S. S. & A., St.  
Paul, D. M. & N., D. & I. R., C. N.  
Supt. W. B. Elliott.

**Pittsburgh & Ashland Coal & Dock Co. —**

Three Wellman-Seaver-Morgan.  
Size of clam shells used 3 tons.  
Capacity per 10 hours 2,700 tons.  
Storage capacity 150,000 tons.  
Depth of water at dock 19 feet.  
Maximum length of boat 600 feet.  
R. R. connections, G. N., N. P., Omaha, Soo, D. S. S. & A., St.

Paul, D. M. & N., D. & I. R., C. N.  
Supt. A. J. Brotherton.

**Reiss Coal Co., C. (Pgh. No. 3)—**

Two Heyl & Patterson.  
Size of clam shells used 8 tons.  
Capacity per 10 hours, 9,000 tons.  
Work day and night.  
Storage capacity 500,000 tons.  
Depth of water at dock 21 feet.  
Can handle boats of any length.  
R. R. connections, G. N., N. P., Omaha, Soo, D. S. S. & A., St.  
Paul, D. M. & N., D. & I. R., C. N.  
Supt. H. Beck.

**Superior Coal & Dock Co.—**

Five Hunt Rigs.  
Size of clam shells used 1 ton.  
Size of buckets used 1 ton.  
Capacity per 10 hours 3,000 tons.  
Storage capacity 235,000 tons.  
Depth of water at dock 19 feet 6 inches.  
Can handle any length boat.  
R. R. connections, G. N., Omaha, Soo, N. P., D. S. S. & A., St.  
Paul, D. M. & N., D. & I. R., C. N.  
Supt. Jas. W. Patton.

**Superior Manufacturing Co. (Tower Slip)—**

Two Movable Hoists.  
Size of buckets used 1 ton.  
Capacity per 10 hours 1,000 tons.  
Depth of water at dock 18 feet.  
Can handle boat of any length.  
Supt. H. E. Speakes.

**THESSALON, ONT.**

**Algoma Custom Smelting Co.—**

One Rig.  
1 ton buckets used.

COAL DOCKS OF THE GREAT LAKES—Continued.

Capacity per 10 hours 300 tons.  
Depth of water at dock 16 feet.

**THREE RIVERS, QUE.**

**Dominion Coal Co., Ltd.—**

Two Towers.  
1½ ton clam shells used.  
Capacity per 10 hours 4,000 tons.  
Storage capacity 70,000 tons.  
Depth of water at dock 40 feet.  
Supt. W. C. Haynes.

**TOLEDO, OHIO**

**Asphalt Block Pavement Co. (Sand Dock)—**

25 ton Locomotive crane, with 50 foot boom.  
2 ton clam shell used.  
Capacity per 10 hours 800 tons.  
Can handle any material over this dock.  
Depth of water at dock 25 feet.  
Can handle any size boat.  
R. R. connections, W. & L. E.  
Supt. George Hayatt.

**B. and O. Ry. Co.—**

One Car Dump.  
Supt.

**Delaware, Lackawanna & Western (Upper Dock)—**

Six Masts and Booms.  
Size of buckets used ½ ton.  
Capacity per 10 hours 800 tons.  
Depth of water at dock 18 feet.  
Storage capacity 25,000 tons.  
Can handle boats of any length.  
Supt. B. F. Beard.

**Hocking Valley—**

East side of river.  
2 Brown hoist car dumps.  
Supt. V. H. Palmer.

**Toledo Fuel Co.—**

Magnolia Street Dock.  
One 5 ton McMyler.  
55 foot Boom.  
Depth of water at dock, 19 feet.

**Toledo Fuel Co.—**

Ohio Central Slip.  
One McMyler Locomotive Crane.  
55 foot Boom.  
Depth of water at dock 18 feet.

**T. & O. C.—**

One Car Dump.  
Supt. C. A. Hoyt.

**TORONTO, ONT.**

**Conger Coal Co., Ltd.—**

One Hunt Hoist.  
½ ton buckets used.  
Capacity per 10 hours 400 tons.  
Depth of water at dock 14 feet.  
Supt. H. E. Bond.

**Milnes Coal Co., Ltd.—**

One Brown Hoist.  
½ ton buckets used.  
Capacity per 10 hours 350 tons.  
Depth of water at dock 20 feet.  
Supt. Arthur Purdue.

**Burnes & Co., P.—**

One Hoist.  
Capacity per 10 hours 400 tons.

**Toronto Coal & Dock Co., Ltd.—**

One Brown Locomotive Crane.  
1 1-4 ton bucket used.  
Capacity per 10 hours 500 tons.  
2 Whirlies.  
1½ ton clam shells used.

COAL DOCKS OF THE GREAT LAKES—Continued

Capacity 10 hours 1,600 tons.  
 Work night and day.  
 Storage capacity 40,000 tons.  
 Depth of water at dock 14 feet.  
 Maximum length of boat 250 feet.  
 R. R. connections, G. T., C. P. R., C. N.  
 Supt. C. D. Secord.

**Swift's Coal Dock—**

1 McMyler Whirley.  
 1 ton clam shell used.  
 Capacity 10 hours 400 tons.  
 Storage capacity 10,000 tons.  
 Depth of water 13 feet.  
 Supt. James Swift, Jr.

**Toronto Electric Light Co., Ltd.—**

One Electric Hoist.  
 ½ ton buckets used.  
 Capacity per 10 hours 400 tons.  
 Depth of water at dock 14 feet.  
 Supt. Thomas Wright.

**Dickson & Eddy—**

Two Steam Hoists.  
 ½ ton buckets used.  
 Capacity per 10 hours 700 tons.  
 Depth of water at dock 14 feet.  
 Supt. E. Lowden.

**Standard Fuel Co., Ltd.—**

Church Street Wharf.  
 One Electric Tower.  
 Size of buckets used 1 1-4 ton.  
 Capacity per 10 hours 1,000 tons.

**Rogers & Co., Elias—**

One Steam Hoist.  
 ½ ton buckets used.  
 Capacity per 10 hours 400 tons.

Depth of water at dock 14 feet.

**TRAVERSE CITY, MICH.**

**Hannah-Lay Mercantile Co.—**

One Whirley.  
 Size of buckets used 3-4 ton.  
 Capacity per 10 hours 400 tons.  
 Depth of water at dock 14 feet.  
 Maximum length of boat 300 feet.  
 R. R. connections, P. M.  
 Supt. H. Morrison.

**TURNER, ONT.**

Algoma Eastern Ry. Co.  
 One Brown Hoist.  
 3 ton clam shell used.  
 Capacity 10 hours 2,000 tons.  
 Storage capacity 120,000 tons.  
 Depth of water 22 feet.  
 Supt. T. F. Rahilly.

**TWO HARBORS, MINN.**

**Duluth & Iron Range Ry. Co.—**

Three Mead Morrison.  
 Size of clam shells used 2 tons.  
 Capacity per 10 hours 6,000 tons.  
 2 Brown Hoists.  
 Storage capacity 150,000 tons.  
 Depth of water at dock 21 feet.  
 Maximum length of boat 460 feet.  
 R. R. connections, D. & I. R.  
 Supt. Fred W. Thias.

**Duluth & Iron Range Ry. Co.—**

Pulpwood dock.  
 Can load 250 cords of pulp per day.  
 Supt. J. H. Spurbeck.



COAL DOCKS OF THE GREAT LAKES—Continued.

**TWO RIVERS, WIS.**

**Reiss Coal Co., C.—**

Two Steam Bridges.  
1 ton buckets used.  
Capacity per 10 hours 1,000 tons.  
Depth of water 16½ feet.  
Length of boat 400 feet.  
R. R. connections, all roads.  
Supt. John Schultz.

**John Gesell—**

Unloads with Horses.  
Capacity per 10 hours 250 tons.

**WASHBURN, WIS.**

**Northwestern Fuel Co.—**

Sixteen Fixed Rigs.  
Size of clam shells used 1½ tons.  
Capacity per 10 hours 4,000 tons.  
Storage capacity 115,000 tons.  
Depth of water at dock 21 feet.  
Maximum length of boat 525 feet.  
R. R. connections, Omaha.  
Supt. J. W. Gibson.

**WAUKEGAN, ILL.**

**Reiss Coal Co. C.—**

Five Hoists.  
Size of buckets used 1¼ tons.  
Capacity per 10 hours 1,250 tons.  
Storage capacity 100,000 tons.  
Depth of water at dock 18 feet 6 inches.  
Maximum length of boat 500 feet.  
Supt. Thomas Farmer.

**Reiss Coal Co. C.—**

Two Mead Morrison.

Size of clam shells used 1¼ tons.  
Size of buckets used 1¼ tons.  
Capacity per 10 hours 4,000 tons.  
Storage capacity 100,000 tons.  
Depth of water at dock 18 feet 6 inches.  
Maximum length of boat 500 feet.  
Supt. Thomas Farmer.

**Waukegan Fuel Co.—**

Operated by Chas. E. Bairstow.  
2 Brown Hoists.  
Size of clam shells used ½ ton.  
Capacity per 10 hours 900 tons.  
Storage capacity 10,000 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 380 feet.

**WEST FORT WILLIAM, ONT.**

**Canadian Northern Railway Co.—**

Four Whirlies.  
Size of clam shells used ½ ton.  
Capacity per 10 hours 1,000 tons.  
Storage capacity 55,000 tons.  
Depth of water at dock 19 feet 6 inches.  
Maximum length of boat 600 feet.  
Supt. M. O'Leary.

**WIARTON, ONT.**

**Crown Cement Co., Ltd.—**

One Steam Hoist.  
Size of clam shell used 1 ton.  
Capacity per 10 hours 400 tons.  
Depth of water at dock 14 feet.

**Peninsular Tug & Towing Co.—**

Unload with Horses.  
Capacity per 10 hours 200 tons.  
Depth of water at dock 14 feet.

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An ELECTRIC IRON is really the only one to use in Summer. No hot room to work in, no extra steps to the hot stove, and at such a small expense, you owe it to yourself to be comfortable. After you have used an ELECTRIC IRON one Summer, you will want to use it all the year around.

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DULUTH, MINN.

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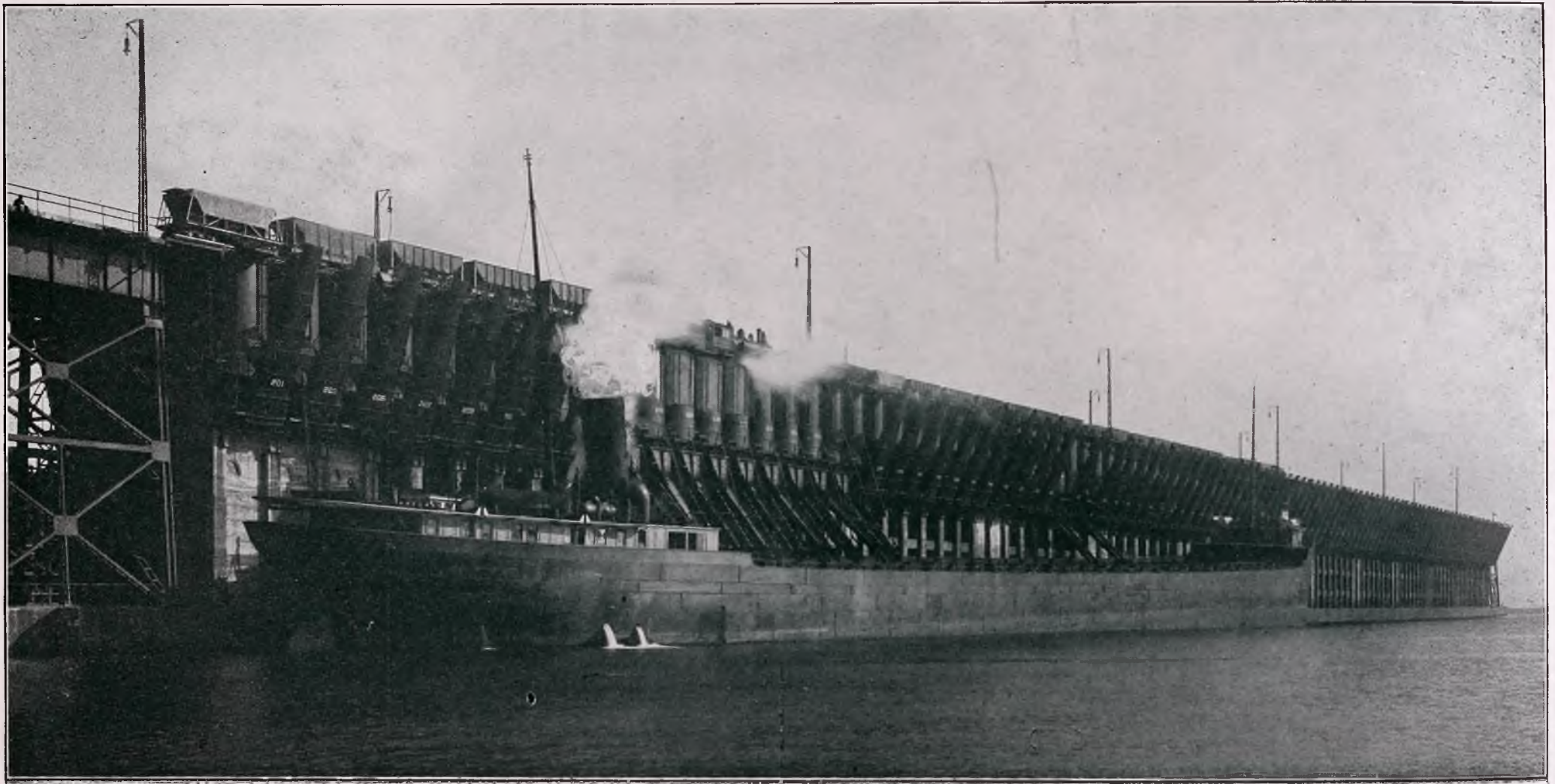
TOLEDO

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OHIO



**STEAMER J. L. SHEADLE**

**Loading Iron Ore at the new concrete dock, No. 2 of the Lake Superior & Ishpeming Ry. Co., at Marquette, Mich.**

## ORE UNLOADING DOCKS OF THE GREAT LAKES

### ASHTABULA, OHIO

#### The Ashtabula & Buffalo Dock Co. No. 1—

Western Reserve Bldg., Cleveland, O.

West side of slip, east of Main river.

#### 4 Hulett Electric Unloaders.

Size of clam shells used 15 ton.

Capacity per 10 hours 25,000 tons.

Depth of water at dock 22 feet.

Can handle boats of any length.

Railroad connections:

N. Y. C.—P. & L. E.—Erie—Pennsylvania.

Supt. E. O. Whitney.

#### The Ashtabula & Buffalo Dock Co.—

#### 6 Hoover & Masons.

Size of clam shells used 5 ton.

Capacity per 10 hours 6,000 tons.

#### 10 Brown Hoists.

Size of buckets used 1 ton.

Capacity per 10 hours 3,500 tons.

Can handle boats of any length.

Railroad connections:

N. Y. C.

L. S. & M. S.—P. & L. E.—B. & O.—Erie & Pennsylvania.

Supt. E. O. Whitney.

#### The Ashtabula & Buffalo Dock Co.—

Western Reserve Bldg., Cleveland, O.

#### 4 Huletts Electric.

Number of machines in a set 4.

Size of clam shells used 15 ton.

Capacity per 10 hours 22,000 tons.

Depth of water at dock 25 feet.

Can handle boats of any size.

Railroad connections:

N. Y. C.—P. & L. E.—L. E. & E.—Pennsylvania Co.—Erie—

B. & O.

Supt. E. O. Whitney.

#### Ohio & Western Pennsylvania Dock Co. (P. Y. & A.)—

Leader-News Bldg., Cleveland, O.

#### 6 Hoover & Mason Machines.

Number of machines in a set 6.

Size of clam shells used 6 ton.

Capacity per 10 hours 15,000 tons.

Depth of water at dock 22 feet.

Can handle boats of any length.

Railroad connections:

P. Y. & A. Division of Pennsylvania.

Supt. J. M. Amsden.

#### Ohio & Western Pennsylvania Dock Co.—

West side of Main River.

Leader-News Bldg., Cleveland, O.

#### 6 Hoover & Mason Electrics.

Size of clam shells used 6 ton.

Capacity per 10 hours 20,000 tons.

Depth of water at dock 23 feet.

Maximum length of boat any.

Maximum length of boat 450 feet.

Railroad connections:

P. Y. & A. Division of Pennsylvania.

Supt. J. M. Amsden.

#### The Pollock-Becker Co.—

C. A. Williams, Mgr., Rockefeller Bldg., Cleveland, Ohio

#### 4 Hulett Electric & Hoover & Masons.

Number of machines in a set 4.

Size of clam shells used 15 ton.

Capacity per 10 hours 22,000 tons.

Depth of water at dock 21 feet.

Can handle boats of any length.

Railroad connections:

N. Y. C.—P. & L. E.—B. & O.—Erie & Pennsylvania.

Supt. J. H. Burton.

### BOYNE CITY, MICH.

#### Lake Superior Iron & Chemical Co.—

#### 1 Unloading Rig.

Size of bucket used 1 ton.

Capacity per 10 hours 800 tons.  
 2 Brown Hoists.  
 Size of buckets used 1 ton.  
 Capacity per 10 hours 800 tons.  
 Depth of water at dock 14 feet.  
 Maximum length of boat 400 feet.  
 Supt. J. D. Dunn.

**BUFFALO, N. Y.**

**The Ashtabula & Buffalo Dock Co. (West Shore)—**

Western Reserve Bldg., Cleveland, O.  
 Location, Blackwell Canal.

3 Brown Electric Unloaders.  
 Size of clam shells used 5 ton.  
 Capacity per 10 hours 7,500 tons.  
 Depth of water at dock 21 ft. 6 inches.  
 Can handle boats of any length.  
 Railroad connections:  
 N. Y. C. & H. R.—Buffalo Creek—Penn. Erie—D. L. & W.—L. V.  
 Supt. W. E. Chilson.

**Buffalo, Rochester & Pittsburg—**

Blackwell Canal and So. Michigan St.

2 Hulett Automatic Unloaders.  
 Size of clam shells used 10 ton.  
 Capacity per 10 hours 7,000 tons.  
 Depth of water at dock 23 feet.  
 Can handle boats of any length.  
 Railroad connections:  
 B. R. & P.  
 Supt. Sam'l J. Russell.  
 Agt. Geo. S. Mulford.

**Buffalo Union Furnace Co.—**

Buffalo River.

3 Brown Hoists.  
 Size of clam shells used two 10 ton, one 4 ton.  
 Capacity per 10 hours 6,000 tons.  
 Depth of water at dock 23 feet.  
 Maximum length of boat 600 feet.

Railroad connections:  
 B. U. T.—L. S. & M. S.—Erie.  
 Supt. Edward T. Raines.

**Donner Steel Co.—**

Buffalo River.

2 Brown Hoists.  
 Size buckets used 7½ ton.  
 Capacity 10 hours 3,000 tons.  
 Depth of water at dock 22 feet.  
 R. R. connections, D. L. & W.—B. R. & P.—So. Buffalo Rys.  
 Supt. J. F. McMaster.

**Lackawanna Steel Co.—**

South End of Buffalo Harbor.

5 Hulett Electric Unloaders.  
 Machines operated in sets of 2, 3 or 5.  
 Capacity of 3 machines in 10 hours 6,000 tons.  
 Capacity of 2 machines in 10 hours 4,000 tons.  
 Depth of water at dock 22 feet.  
 Can handle boats of any length.  
 Railroad connections:  
 All lines entering Buffalo.  
 Supt. Carl Jacobson.

**Lehigh Valley R. R. Co.—**

Located on the Canal.

4 McMyler Whirlies.  
 Size of buckets used 3 ton.  
 Capacity per 10 hours 3,000 tons.  
 6 Brown Hoists.  
 Size of buckets used 1 ton.  
 Capacity per 10 hours 1,500 tons.  
 Depth of water at dock 21 feet.  
 Maximum length of boat 600 feet.  
 Maximum beam of boat 54 feet.  
 Railroad connections:  
 All roads entering Buffalo.  
 Supt. P. J. Flynn.



ORE UNLOADING DOCKS OF THE GREAT LAKES—Continued

**Pennsylvania Railroad—**

Location, Union Canal.

South Buffalo Ore Dock, operators, Lackawanna, N. Y.

1 Hulett Electric Unloader.

Size of clam shells used 10 ton.

Capacity per 10 hours 3,000 tons.

2 Brown Electric Unloaders.

Size of clam shells used 5 ton.

Capacity per 10 hours 4,000 tons.

Depth of water at dock 22 feet.

Can handle boats of any length.

Railroad connections:

N. Y. C. & H. R.—Buffalo Creek—Penn.—Erie—D. L. & W. &

L. V.

Supt. Frank H. Britton.

**Rogers-Brown Iron Co. (Susquehanna)—**

Location, Union Canal.

6 Brown Unloaders.

Size of clam shells used 5 ton.

Capacity per 10 hours 4,300 tons.

Depth of water at dock 23 feet.

Can handle boats of any length.

Railroad connections:

All roads entering Buffalo.

Supt. Geo. W. Kennedy.

**CLEVELAND, OHIO**

**Central Furnace Dock—**

American Steel & Wire Co., operators.

Cleveland, Ohio.

2 Hulett Electric Unloaders.

Size of clam shells used 10 ton.

Capacity per 10 hours 7,500 tons.

4 Hoover & Mason Unloaders.

Size of clam shells used 5 ton.

Depth of water at dock 22 feet.

Capacity per 10 hours 6,000 tons.

Maximum length of boat 525 feet.

Railroad connections:

Newburg & South Shore and B. & O.—P. R. R.

Supt. Q. A. Gillmore.

**Cleveland Furnace Co.—**

2 Brown Electric Unloaders.

Size of clam shells used 5 ton.

Capacity per 10 hours 4,800 tons.

2 McMyler Whirlies.

Size of clam shells used 2 ton.

Capacity per 10 hours 2,000 tons.

Depth of water at dock 19 feet.

Maximum length of boat 525 feet.

Railroad connections:

W. & L. E.—B. & O.—N. & S. S.

Supt. J. B. Blackmere.

**Cleveland & Pittsburgh Ore Dock—**

Ohio & Western Pennsylvania Dock Co.

Leader-News Bldg., Cleveland, O.

West Breakwater, Outer Harbor.

4 Hulett Solid Arm.

Size of clam shells used 17 ton.

Capacity per 10 hours 30,000 tons.

Storage: Pit in connection with storage bridge.

Depth of water at dock 23 feet.

Can handle any size boat.

Hatches must be at least 7 feet wide.

Can handle any size centre.

Railroad connections:

Pennsylvania & Norfolk & Western.

Supt. Charles E. Cole.

**The Erie Dock Co. (N. Y. P. & O)—**

4 Brown Electric Unloaders.

Size clam shell used 5 ton.

1 Hulett.

Size of clam shells used 17 ton.

Capacity per 10 hours 20,000 tons.

ORE UNLOADING DOCKS OF THE GREAT LAKES—Continued

4 Hoover & Mason Steam Unloaders  
 Size of clam shells used 5 ton.  
 Capacity per 10 hours 5,000 tons.  
 Depth of water at dock 21 feet.  
 Can handle boats of any length.  
 Railroad connections:  
 Erie.  
 Supt. Thomas F. Zealand.

Ohio & Western Pennsylvania Dock Co. (C. & P.)—

Leader-News Bldg., Cleveland, O.

6 Hoover & Mason Electric Unloaders.  
 Size of clam shells used 5 ton.  
 Capacity per 10 hours 9,000 tons.

12 Brown Electric Fast Plant.  
 Size of clam shells used 1 ton.  
 Capacity per 10 hours 6,000 tons.

31 Brown Hoists.  
 Size of clam shells used 1½ ton.  
 Capacity per 10 hours each rig is 300 tons.  
 Depth of water at dock 22 feet.  
 Maximum length of boat 607 feet.  
 Railroad connections:  
 Pennsylvania.  
 Supt. Charles E. Cole.

River Dock Co., The—

Corrigan-McKinney Furnace.

3 Hulett Electric Unloaders.  
 Size of clam shells used 10 ton.  
 Capacity per 10 hours 10,000 tons.  
 Depth of water at dock 22 feet.  
 Maximum length of boat 500 feet.  
 Railroad connections:  
 All roads entering Cleveland.  
 Supt. C. E. Ash.

Upton Nut Co.—

Above Columbus Street Bridge.

1 Hulett Special Type Bridge.  
 Size of clam shells used 5 ton.  
 Capacity per 10 hours 2,500 tons.  
 Depth of water at dock 22 feet.  
 Maximum length of boat 600 feet.  
 R. R. connections, Erie & Big 4.  
 Supt. H. J. Allen.

Wheeling & Lake Erie—

Cleveland Furnace Co., operators.

2 McMyers, for lightering.  
 Size of clam shells used 2 ton.  
 Capacity per 10 hours 2,000 tons.  
 Depth of water at old type dock 14 feet.  
 Supt. J. B. Blackmere.

CONNEAUT, OHIO

Pittsburg & Conneaut Dock No. 2—

12 McMyers.  
 Size of clam shells used 2 ton.  
 Capacity per 10 hours 6,000 tons.

Pittsburg & Conneaut Dock No. 4—

4 Brown Electric Unloaders.  
 Size of clam shells used 5 ton.  
 Capacity per 10 hours 6,800 tons.

4 Steam Huletts.  
 Size of clam shells used 10 ton.  
 Capacity per 10 hours 9,000 tons.

1 Hulett Electric.  
 Size of clam shells used 15 ton.  
 Capacity per 10 hours 4,000 tons.  
 Depth of water at dock 21 feet.  
 Can handle boats of any length, and with any size hatches  
 Railroad connections:  
 Bessemer & Lake Erie.  
 Supt. Clarence Walker.

DESERONTO, ONT.

Standard Iron Co., Limited—

Western Limits of Deseronto.

ORE UNLOADING DOCKS OF THE GREAT LAKES—Continued

One Browning Locomotive Crane.  
Size of buckets used 2 ton.  
Capacity per 10 hours 600 tons.  
Depth of water at dock 16 feet.  
Maximum size boat, Welland canal size.  
Hatches must not be less than 8x14.  
Supt. Robert H. Watson.

**DETROIT, MICH.**

**Detroit Furnace Co.—**

2 King Bridges.  
Size of clam shells used 2½ ton.  
Capacity per 10 hours 1,500 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 350 feet.  
J. K. Clutts, Mgr.

**Detroit Iron & Steel Co.—**

Location, River Rouge.  
1 Brown Hoist.  
2 Wellman-Seaver-Morgan.  
Size of clam shells used 5 ton.  
Capacity per 10 hours 4,500 tons.  
Depth of water at dock 19 feet.  
Can handle boats of any length.  
Railroad connections:  
All roads entering Detroit.  
Supt. Granger Whitney.

**ELK RAPIDS, MICH.**

**Lake Superior Iron & Chemical Co.—**

East Arm of Grand Traverse Bay.  
1 Macbeth Iron Co. Rig.  
Size of clam shells used 3½ ton.  
Capacity per 10 hours 600 tons.  
Depth of water at dock 14 feet 6 inches.  
Maximum beam of boat 42 feet.  
Length of boat 300 feet.

Supt. H. C. Magoon.

**ERIE, PA.**

**Ohio & Western Pennsylvania Dock Co. (E. & P.)—**

8 Brown Fast Plant Rigs.  
Size of clam shells used 2 ton.  
Capacity per 10 hours 4,000 tons.  
6 Brown Hoists.  
Depth of water at dock 22 feet.  
Can handle boats of any length.  
Railroad connections:  
E. & P. Division of Pennsylvania.  
Supt. D. K. Smith.

**Philadelphia & Erie (Pennsylvania R. R.)—**

Location, East End of Harbor.  
1 Electric Hulett Unloader.  
Size of clam shells used 10 ton.  
Capacity per 10 hours 3,500 tons.  
1 Mead Morrison.  
Size of clam shell used 9 ton.  
Capacity per 10 hours 3,500 tons.  
Depth of water at dock 22 feet.  
Can handle boats of any length.  
Railroad connections:  
Pennsylvania & Pennsylvania Co.  
Supt. R. M. Thompson.  
Pier Agt. E. H. Rodda.

**FAIRPORT, OHIO**

**Pennsylvania & Lake Erie Dock Co.—**

6 Brown Electric Unloaders.  
Size of clam shells used 5 ton.  
Capacity of the 6 machines in 10 hours 15,000 tons. They  
are operated as one set, or individually.  
Depth of water at dock 22 feet.  
Can handle boats of any length.  
Railroad connections:  
B. & O.

ORE UNLOADING DOCKS OF THE GREAT LAKES—Continued

Supt. Gordan S. Meek.

**GARY, IND.**

**Illinois Steel Co.—**

- 5 Hulett Automatic Unloaders.  
Size of clam shells used 10 ton.  
Capacity per 10 hours 15,000 tons.  
Depth of water at dock 22 feet.  
Can handle boats of any length.  
Railroad connections:  
E. J. & E. and all roads entering Chicago.  
Supt. C. H. Wheeler.

**HURON, OHIO**

**Wheeling & Lake Erie—**

- 2 Hulett Unloaders.  
Size of clam shells used 15 ton.  
Capacity per 10 hours 10,000 tons.
- 4 Hulett Automatic Unloaders.  
Size of clam shells used 5 ton.  
Capacity per 10 hours 8,000 tons.
- 4 McMyler Hoists.  
Size of buckets used 2 ton.  
Capacity per 10 hours 2,000 tons.
- 5 McMyler Whirlies.  
Size of clam shells used 2 ton.  
Capacity per 10 hours 2,500 tons.
- 2 McMyler Whirlies.  
Size of buckets used 1 ton.  
Capacity per 10 hours 800 tons.  
Depth of water at dock 21 feet.  
Can handle boats of any length.  
Railroad connections:  
W. & L. E.  
Supt. T. R. Gillmore.

**INDIANA HARBOR, IND.**

**Inland Steel Co.—**

- 5 Hoover & Mason, Unloaders.

Size of clam shells used 7½ ton.  
Capacity per 10 hours 9,000 tons.  
Depth of water at dock 22 feet.  
Can handle boats of any length.  
Supt. John W. Lees.

**Mark Manufacturing Co., Near Mouth of River—**

- 2 Hoover & Mason.  
Size of clam shells used 7½ tons.  
Capacity per 10 hours 8,000 tons.  
Storage capacity, 850,000 tons.  
Maximum length boat 550 ft.  
R. R. connections, Ind. Hbr.—E. J. & E.  
Supt. A. H. Beale.  
R. R. connections, E. J. & E., etc.

**LORAIN, OHIO**

**Baltimore & Ohio—**

- 3 Brown Electric Unloaders.  
Size of clam shells used 9½ ton.  
Capacity per 10 hours 10,000 tons.  
Depth of water at dock 21 feet.  
Can handle boats of any length.  
Railroad connections:  
B. & O.  
Supt. C. E. Pierce, Terminal Agt.

**National Tube Co.—**

- 4 Hulett Automatic Unloaders.  
Size of clam shells used 12 ton & 10 ton.  
Capacity per machine for 10 hours 16,000 tons.  
Depth of water at dock 22 feet.  
Can handle boats of any length.  
Railroad connections:  
Lake Terminal Railroad—W. & L. E.—N. Y. C. & St. L.—B.  
& O.—L. A. & S.  
Supt. R. J. Aspin.

ORE UNLOADING DOCKS OF THE GREAT LAKES—Continued

MIDLAND, ONT.

Canada Iron Corporation, Ltd.—

2 Whirlies.

Size of clam shells used 2½ ton.

Size of buckets used 1½ ton.

Capacity per 10 hours 1,200 tons.

Depth of water at dock 19 feet 6 inches.

Can handle boats of any length.

Railroad connections:

Grand Trunk.

Supt. Geo. Drydale Drummond.

MILWAUKEE, WIS.

Illinois Steel Co.—

10 Brodesser Hoists.

Size of buckets used 1,800 pounds.

Capacity for 10 hours 2,000 tons.

Depth of water at dock 22 feet.

Maximum length of boat 500 feet.

Railroad connections:

All roads entering Milwaukee.

Supt. R. B. Charlton.

Thomas Furnace Co.—

1 Variety Bridge, "Electrical."

Size of buckets used 6½ ton.

Capacity per 10 hours 2,000 tons.

Can operate at night.

Storage capacity 70,000 tons.

Depth of water at dock 22 feet.

Maximum length of boat 600 feet.

R. R. connections, C. M. & St. P.

NIAGARA RIVER

Wickwire Steel Co.—

1 Electric Hulett Unloader.

Size of clam shells used 10 ton.

Capacity per 10 hours 4,000 tons.

1 Wellman-Seaver.

Capacity 10 hours 3,500 ton.

Size of clam shell 7½ ton.

2 Brown Hoists.

Size of buckets used, 1 7½ ton—1 5 ton.

Can handle boats of any length.

Depth of water at dock 23 feet.

Railroad connections:

N. Y. C. and D. L. & W. & L. V.

Supt. J. W. Lockie.

PARRY SOUND, ONT.

Standard Iron Co., Limited—

Montreal, Canada.

1 Brown portable pier crane.

1 Brown locomotive crane.

Capacity per 48 hours 3,000 tons.

Depth of water at the dock 24 feet.

PORT COLBORNE, ONT.

Canadian Furnace Co., Ltd.—

Two McMyler Bridges.

Size of clam shells used, 5 ton.

Capacity per 10 hours 4,000 tons.

Depth of water at dock 24 feet.

R. R. connections, Grand Trunk.

Supt. T. R. Johnson.

Can handle boats of any length.

POINT EDWARD, ONT.

Steel Company of Canada, Ltd.—

4 McMyler Whirlies.

Size of clam shells used 4 ton.

Capacity per 10 hours 7,000 tons.

Depth of water at dock 21 feet.

Maximum length of boat any.

Railroad connections:

ORE UNLOADING DOCKS OF THE GREAT LAKES—Continued

Grand Trunk & Pere Marquette.  
Supt. W. J. Constable.

**SANDUSKY, OHIO**

**Pennsylvania—**

4 Whirley Unloaders.  
Size of buckets used 1 ton.  
Capacity per 10 hours 1,200 tons.  
Depth of water at dock 19 feet.  
Railroad connections:  
Pennsylvania.  
Supt. C. C. Hand.

**SAULT ST. MARIE, ONT.**

**Algoma Steel Corp., Ltd.—**

2 Wellman-Seaver-Morgan.  
Size of clam shells used 3 ton.  
1 Brown Bridge.  
Size of clam shell used 7 ton.  
Capacity per 10 hours 6,000 tons.  
Depth of water at dock 21 feet.  
Can handle boats of any length.  
Supt. J. A. MacColl.

**SOUTH CHICAGO, ILL.**

**By-Products Coke Corporation (Federal)**

332 So. Michigan Ave., Chicago.  
108th St. and Calumet River.

3 Brown Hoists.  
Size of clam shells used 5 ton.  
Capacity per 10 hours 5,200 tons.  
Depth of water at dock 21 feet.  
Storage capacity 300,000 tons.  
Can handle boats of any length.  
Railroad connections: I. H. B.—Pennsylvania.  
All roads entering Chicago.  
Supt. D. L. Ward.

**Illinois Steel Co. (North Dock)—**

15 Hoover and Mason Unloaders. Sets of 4 & 11.

Size of clam shells used 4 8 ton.  
Size of clam shells used 11 5 ton.  
Capacity per 10 hours 27,000 tons.  
Depth of water at dock 21 feet.  
Can handle boats of any length.  
Railroad connections: E. J. & E. Ry.  
All roads entering Chicago.  
Supt. William J. McGowan.

**Illinois Steel Co. (South Dock)—**

7 Hoover & Mason Unloaders.  
Size of clam shells used 6 ton.  
Capacity per 10 hours 18,000 tons.  
Depth of water at dock 21 feet.  
Can handle boats of any length.  
Railroad connections, E. J. & E. Ry.  
All roads entering Chicago.  
Supt. William J. McGowan.

**Iroquois Furnace Co. (New Dock)—**

South Side of Calumet River.  
2 Brown Hoists.  
Size of clam shells used 7 1-2 ton.  
Capacity per 10 hours 4000 tons.  
1 Hoover & Mason.  
Size of clam shells used 7 1-2 ton.  
Capacity per 10 hours 2500 tons.  
Depth of water at dock 20 1-2 feet.  
Can handle boats of any length.  
E. L. Ives, Mgr. of Furnace.

**Wisconsin Steel Co.—**

109th St.  
3 Brown Electric Unloaders.  
Size of clam shells used 6 ton.  
Capacity per 10 hours 7,000 tons.  
Depth of water at dock 22 feet.  
Maximum length of boat 550 feet.  
Supt. Samuel Hale.

ORE UNLOADING DOCKS OF THE GREAT LAKES—Continued

TOLEDO, OHIO

Baltimore & Ohio (C. H. & D.)—

- 2 Hulett Electric Unloaders.  
Size of clam shells used 15 ton.  
Capacity per 10 hours 9,000 tons.
- 1 Whirley McMyler.  
Size of clam shells used 1½ tons.  
Capacity per 10 hours 1,500 tons.
- 1 Wellman-Seaver.  
Size of clam shell used 10 ton.  
Capacity in 10 hours 3,000 ton.  
Depth of water at dock 22 feet.  
Can handle boats of any length.  
Railroad connections:  
All roads entering Toledo.  
Storage capacity 500,000.  
Supt. S. V. Hooper.

Pennsylvania R. R. Co.—

- Location, West Side.
- 2 Old Style Brown Unloaders.  
Size of buckets used 2 ton.  
Capacity per 10 hours 1,000 tons.

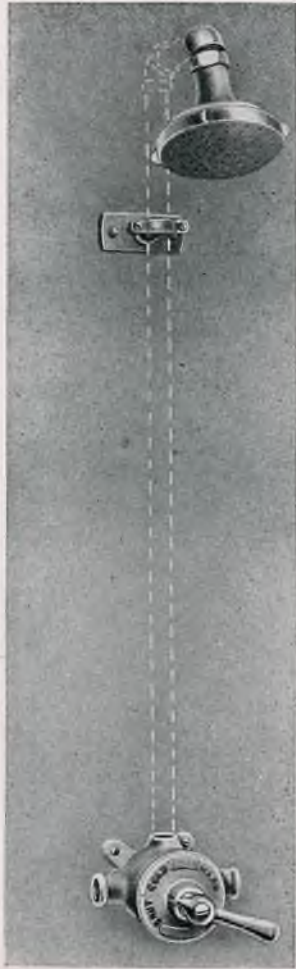
Depth of water at dock 23 feet.  
Can handle boats of any length.

Toledo Furnace Co.—

- 3 Electric Hoover & Masons.  
Size of clam shells used 5 ton.  
Capacity per 10 hours 3,000 tons.  
Depth of water at dock 22 feet.  
Can handle boats of any length.  
Railroad connections:  
D. T. & I.  
Supt. E. B. Hull.

Toledo & Ohio Central—

- 3 Brown Electric Unloaders.  
Size of clam shells used 5 ton.  
Capacity per 10 hours 6,000 tons.  
Depth of water at dock 22 feet.  
Storage capacity 80,000 tons.  
Can handle boats of any length.  
Railroad connections:  
N. Y. C.—Penn.—H. U.—C. H. & D.—W. & L. E.—Clover Leaf  
—Wabash—M. C.—Ann Arbor—P. M.  
Supt. C. A. Hoyt.



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**\$26.00**

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**Niedecken Mixer Control**

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Etc.**

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**Wisconsin**

Arthur R. Hallam

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Rockefeller Bldg.

CLEVELAND, O.

Two Whirlies      Any Length Boat      19 Feet Water

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OHIO

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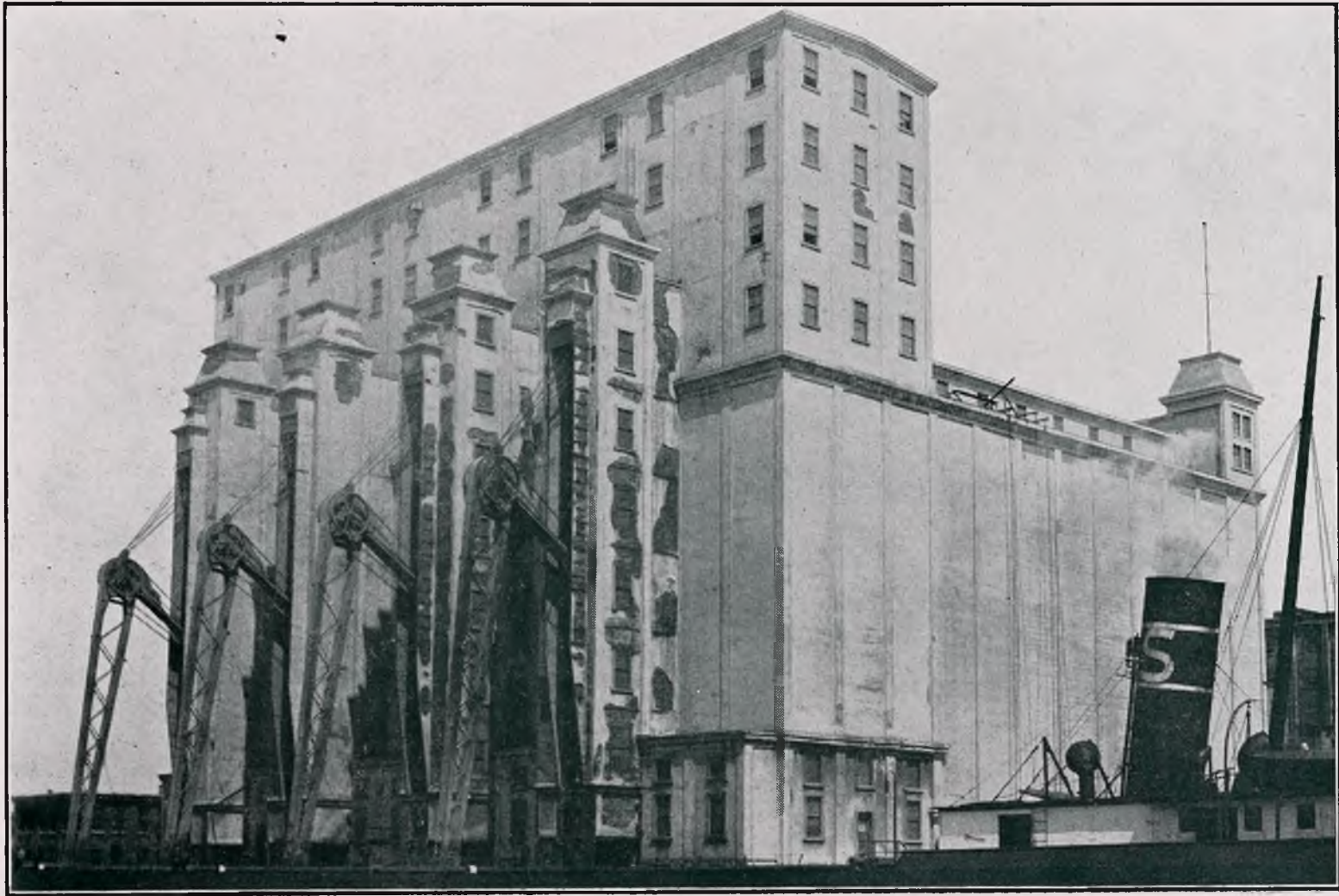
MINERS & SHIPPERS

## Steam and Domestic Coals Genuine Stillwater Lump

GENERAL OFFICES

ROCKEFELLER BUILDING

CLEVELAND, OHIO



CANADIAN GOVERNMENT ELEVATOR AT PORT COLBORNE, ONT.

## GRAIN ELEVATORS OF THE GREAT LAKES

NAME AND LOCATION	OPERATOR	Storage Capacity
<b>ALLOUEZ, WIS.</b>		
Itasca . . . . .	Itasca Elevator Co., Board of Trade Bldg., Duluth, Minn.	1,300,000
<b>BUFFALO, N. Y.</b>		
American Malting, Above Ohio St. Bridge . . . . .	American Malting Co., Buffalo, N. Y. . . . .	2,500,000
Central River . . . . .	Central Elevator Co., Buffalo, N. Y. . . . .	2,500,000
Connecting Terminal, Ship Canal . . . . .	Connecting Terminal Rail Road, Chamber of C. Buffalo.	2,000,000
Concrete Elevator—River . . . . .	Eastern Grain-Mill Elevator Co., Buffalo, N. Y. . . . .	1,000,000
Dakota, Blackwell Canal . . . . .	Wm. Gregory, Mgr. Buffalo, N. Y. . . . .	1,000,000
Dellwood—Above Ohio St. Bridge . . . . .	Archer-Daniels Linseed Co., Buffalo, N. Y. . . . .	1,000,000
Electric, Above Ohio St. Bridge . . . . .	H. T. Kneeland, Mgr., Buffalo, N. Y. . . . .	2,000,000
Evans, Evans Slip . . . . .	Geo. E. Pierce, 710 Chamber of Commerce, Buffalo, N. Y.	400,000
Exchange, Erie Basin . . . . .	Exchange Elev. Co., Buffalo, N. Y. . . . .	500,000
Export, Buffalo Ship Canal . . . . .	H. D. Waters, Mgr., 635 Chamber of Com., Buffalo, N. Y.	1,000,000
Frontier, Blackwell Canal . . . . .	Frontier Mill & Elevator Co., Buffalo, N. Y. . . . .	1,000,000
Great Eastern, Buffalo Creek . . . . .	F. S. Elder, Mgr., Buffalo, N. Y. . . . .	2,500,000
Kellogg (New), Buffalo Creek . . . . .	Spencer Kellogg & Sons, Buffalo, N. Y. . . . .	1,000,000
Marine, Creek and Hatch Slip . . . . .	C. Lee Abell, 710 Chamber of Commerce, Buffalo, N. Y.	650,000
Monarch, Evans Slip . . . . .	Geo. E. Pierce, Buffalo, N. Y. . . . .	450,000
Mutual, Buffalo Ship Canal . . . . .	Mutual Terminal Co., Buffalo, N. Y. . . . .	3,000,000
Superior, Buffalo Creek above Ohio St. Bridge . . . . .	Superior Elevator Co., Buffalo, N. Y. . . . .	1,560,000
Wheeler, Buffalo Creek . . . . .	Geo. E. Pierce, 710 Chamber of Commerce, Buffalo, N. Y.	750,000
<b>CHICAGO, ILL.</b>		
(See also South Chicago, Ill.)		
Armour "A" and "B," and Annex North Branch (Division St.) . . . . .	Armour Grain Co., 137 S. LaSalle, Chicago, Ill. . . . .	3,300,000
Armour "C," South Branch (Morgan St.) . . . . .	Armour Grain Co., 137 S. LaSalle, Chicago, Ill. . . . .	1,000,000
Atlantic, Ogden Canal . . . . .	Hooper Grain Co., 140 W. Vanburen, Chicago, Ill. . . . .	125,000
Central "A," Entrance to River . . . . .	Armour Grain Co., 137 S. LaSalle, Chicago, Ill. . . . .	800,000
Keith, South Branch . . . . .	Rosenbaum Grain Co., 141 W. Jackson Blvd., Chicago, Ill.	2,000,000
Minnesota, North Branch (North Ave.) . . . . .	Armour Grain Co., 137 S. LaSalle, Chicago, Ill. . . . .	300,000
Rock Island "A," South Branch . . . . .	Rosenbaum Grain Co., 141 W. Jackson Blvd., Chicago, Ill.	1,000,000
Rock Island "B," South Branch . . . . .	Rosenbaum Grain Co., 141 W. Jackson Blvd., Chicago, Ill.	800,000
Santa Fe, South Branch (27th St.) . . . . .	Armour Grain Co., 137 S. LaSalle, Chicago, Ill. . . . .	1,000,000
Union, South Branch (16th St.) . . . . .	Armour Grain Co., 137 S. LaSalle, Chicago, Ill. . . . .	1,200,000
Wabash, South Branch . . . . .	E. R. Bacon & Co., 230 S. LaSalle, Chicago, Ill. . . . .	1,500,000

**GRAIN ELEVATORS OF THE GREAT LAKES—Continued**

No. of Legs	Marine Elevating Legs	Marine Loading Spouts	Capacity per hour of Legs or Spouts	Depth of Water Feet	Length of Vessel Can Reach Dock	Loading Capacity to Cars 10 Hours	RAILROAD CONNECTIONS	Elevating Charge per Bushel	Shoveling Charge per 1000 Bu.	Weighing Charge per 1000 Bu.	MANAGER OR SUPERINTENDENT
21		10	10,000	21	Any	100	C., St. P., M. & O.	½c		75c	M. A. McIntyre
2	2	1	12,000	23	Any	200	Buffalo Creek	½c	3.55	12c	R. E. Thamer
5	2	3	50,000	21	Any		Buffalo Creek	½c	\$3.55	12c	D J. Lynch
3	2	3	50,000	21	Any		Buffalo Creek	½c	3.55	12c	C. F. Strasmer
6	1	2	30,000	21	Any	300	Pennsylvania	½c	3.55	12c	Jno. Cusack
	1	2	5,000	21	Any	50	Buffalo Creek	½c	\$3.55	12c	Lee Beath
2	1		12,000	22	Any		Buffalo Creek	½c	3.55	12c	J. E. Finley
	2	1 to Canal Boats	20,000	20	600	150	Buffalo Creek	½c	3.55	12c	Harry C. Wilson
	2	1	20,000	23	600	150	Buffalo Creek	½c	3.55	12c	Frank E. Hurlburt
6	2	2	8,000	20	52' Beam	60	N. Y. C. & H. R.	½c	3.55	12c	Frank Schonhart
	1	1	8,000	20	500	70	G. T.-N. Y. C. & H. R.	½c	3.55	12c	R. E. Wilson
2	1		15,000	23	Any		Buffalo Creek	½c	3.55	12c	C. C. Durst
6	1	4	12,000	23	Any	280	Buffalo Creek	½c	3.55	12c	C. A. Storms
2	2	2	20,000	23	700	80	Buffalo Creek	½c	3.55	12c	Godfrey Morgan
	2	3	20,000	20	500	90	Buffalo Creek	½c	3.55	12c	Frank Griepf
		1	8,000	19	450	80	Buffalo Creek	½c	3.55	12c	Chas. Bartholomy
3	1	1	15,000	20	52' Beam	60	N. Y. C. & H. R.	½c	3.55	12c	Jno. Lane
	3	1 to Canal Boats	30,000	21	Any	200	Buffalo Creek	½c	3.55	12c	E. M. Hull
	1	1	8,000	20	Any	75	Buffalo Creek	½c	*3.42½		F. L. Roberts
	1	1 to Canal Boats	10,000	23	Any		Buffalo Creek	½c	3.55	12c	
	1				Any		C., M. & St. P.				
					Any		C., B. & Q.				
4		1	6,000	20	Any		C., M. & St. P.				E. R. King
	1				Any		I. C.				
	1				Any		C. & A.				J. J. Becker
					Any		C., M. & St. P.				
19		10	3,000	21	350		C., R. I. & P.				Chas. E. Draper
11		6	3,000	21	300	50	C., R. I. & P.				Chas. E. Draper
	1				Any		A., T. & S. F.				
	1				Any		C., B. & Q.-C. & A.				
30		10	8,000	22	350	100	All Roads				Edw. O'Rourke

\*Elevating charge includes weighing and loading to cars.

**GRAIN ELEVATORS OF THE GREAT LAKES—Continued**

NAME AND LOCATION	OPERATOR	Storage Capacity
<b>CLEVELAND, OHIO</b>		
Cleveland Milling, Above Superior St. Viaduct .....	Cleveland Milling Co., 1635 Merwin Rd., Cleveland, O...	150,000
Elevator "A," Cincinnati Slip .....	Cleveland Grain Co., B. of L. E. Bldg., Cleveland, O. . .	1,000,000
Sherwin-Williams, Above Central Viaduct .....	Sherwin-Williams Co., Cleveland, Ohio .....	400,000
Union, Opposite Irish Town Car Dump .....	Union Elevator Co., 1732 Merwin Rd., Cleveland, Ohio..	250,000
<b>COLLINGWOOD, ONT.</b>		
Collingwood Elevator, in Harbor .....	E. R. Bacon & Co., 230 S. LaSalle, Chicago, Ill. ....	160,000
<b>DEPOT HARBOR, ONT.</b>		
Depot Harbor Elevator .....	Armour Grain Co., Chicago .....	1,750,000
<b>DETROIT, MICH.</b>		
Detroit R. R. Elevator, Foot of Hastings St. ....	Detroit R. R. Elev. Co., Detroit, Mich. ....	600,000
Michigan Central "A," Foot of 8th St. ....	M. C. Ry. Co., Detroit, Mich. ....	500,000
Michigan Central "B," Foot of 12th St. ....	M. C. Ry. Co., Detroit, Mich. ....	500,000
Union, Foot of 15½ St. ....	Union Depot Elevator Co., Detroit, Mich. ....	1,250,000
Commercial, foot of Randolph .....	Commercial Milling Co., Detroit, Mich. ....	2,250,000
<b>DULUTH, MINN.</b>		
(See also Superior, Wis.)		
Capital No. 4 & No. 6 Annex .....	Capital Elev. Co., Board of Trade Bldg., Duluth, Minn...	3,300,000
"B" and Annex "C" .....		
"D" and Annex "G" .....	Consolidated Elev. Co., B. of T. Bldg., Duluth, Minn...	2,250,000
"E" and Annex "F" .....	Consolidated Elev. Co., B. of T. Bldg., Duluth, Minn. . .	4,000,000
"H" .....	Consolidated Elev. Co., B. of T. Bldg., Duluth, Minn...	2,500,000
Peavey .....	Consolidated Elev. Co., B. of T. Bldg., Duluth, Minn. . .	1,250,000
	Globe Elev. Co., Board of Trade Bldg., Duluth, Minn...	4,000,000
<b>ERIE, PA.</b>		
Pennsylvania .....	W. W. Farley, Agt., Erie, Pa. ....	1,158,000
<b>FAIRPORT, OHIO</b>		
Export Elevator, Grand River .....	Armour Grain Co., Chicago, Ill. ....	1,000,000

**GRAIN ELEVATORS OF THE GREAT LAKES—Continued**

No. of Legs	Marine Elevating Legs	Marine Loading Spouts	Capacity per hour of Legs or Spouts	Depth of Water Feet	Length of Vessel Can Reach Dock	Loading Capacity to Cars 10 Hours	RAILROAD CONNECTIONS	Elevating Charge per Bushel	Shoveling Charge per 1000 Bu.	Weighing Charge per 1000 Bu.	MANAGER OR SUPERINTENDENT
1 8	1	None	3,000	17	500		Big Four	½c	\$2.50		Andrew Specht, Mgr.
	1	4	8,000	18	375	100	Big Four	½c	3.40	10c	W. H. Elliott
	1		9,500	16	450				2.50		
	1	None	4,000	16½	450	20	Big Four	½c	2.50		Jas. Martin
	1	For Small Boats—1	5,000	20	600	50	G. T.	⅓c	2.50		Wm. Hanley
3	1	None	10,000	20	600	100	G. T.	½c	4.00		A. J. Brett, Gen. Agt.
9 7 9 1	1	6	6,000	21	Any	75	G. T.		3.50	15c	T. R. McDonald
		None		20		50	M. C.	¼c		15c	W. W. Ellsworth
	1	3	5,000	20	Any	50	M. C.	¼c	3.50	15c	W. W. Ellsworth
	1	8	10,000	20	Any	80	Wab., P.M., C.P., G.T., M.C.	½c	3.50	15c	J. G. Miller
	1	1	10,000	21	Any		G. T.	½c	3.50	15c	Julius Franz
5	None	12		23	Any	50	Omaha-N. P.-Soo-G. N.			75c	H. F. Graves, No. 6 Wm. Dahlen, No. 4
18	None	12	6,000	22	Any	50	N. P.			75c	H. A. Starkey
12	None	7	15,000	22	Any		N. P.			75c	H. A. Starkey
18	2 in "E"	14	10,000	22	Any		N. P.-G. N.-Soo-Omaha			75c	H. A. Starkey
18	None	13	6,000	22	Any		N. P.-G. N.-Soo-Omaha			75c	H. A. Starkey
16		5	6,000	20	Any	60	N. P.-G. N.-Soo-Omaha			75c	W. G. McKinnon
1	1	None	25,000	22	Any	100	Penna.	⅝c	1.50	12c	W. W. Farley, Agt
	1	None	10,000	22	Any	100	B. & O.	½c	4.00	12c	G. W. Taylor, Painesville, O.

**GRAIN ELEVATORS OF THE GREAT LAKES—Continued**

NAME AND LOCATION	OPERATOR	Storage Capacity
<b>FORT WILLIAM, ONT.</b>		
Black & Muirhead, Ltd. ....	D. W. Black, Ft. William, Ont. ....	150,000
Consolidated, Three Miles from Harbor Entrance .....	Consolidated Elev. Co., Ft. William, Ont. ....	1,700,000
C. P. R. "A" 1-2 mile from Bay .....	Eastern Terminal Elev. Co., Winnipeg .....	1,250,000
Dwyer Elevator .....	Dwyer Elevator Co., Ltd. ....	250,000
Eastern "A," Three-fourths Mile from Kam. River .....	Eastern Elevator Co., Ft. William, Ont. ....	1,250,000
Eastern "C," Annex to C. P. R.—"A" .....	Eastern Terminal Elevator Co., Winnipeg .....	1,250,000
Empire, Mouth of Kam. River .....	Empire Elev. Co., Ft. William, Ont. ....	1,750,000
Fort William "F" on Kam. River .....	Ft. William Elevator Co., Ft. William, Ont. ....	1,750,000
C. P. R.—"D," Kam. and Mission Rivers .....	C. P. Ry. Co., Ft. William, Ont. ....	8,000,000
G. G. G.—"B," Adjoining Elevator "E" (C. P. R.) .....	United Grain Growers Grain Co., Winnipeg .....	2,500,000
G. G. G.—"E," 500 Feet Above C. P. R.—"A" (C. P. R.) .....	Grain Growers Grain Co., Ft. William, Ont. ....	2,000,000
Grand Trunk, Mission River .....	Grand Trunk Pacific Elev. Co., Ltd., Ft. William, Ont. . .	5,750,000
Mutual .....	Mutual Elevator Co., Ltd., Ft. William, Ont. ....	500,000
Northwestern, North Side of Kam. River .....	Northwestern Elevator Co., Ft. William, Ont. ....	450,000
Ogelvies, on the Kam. River .....	Ogelvies Flour M. Co., Ltd., Ft. William, Ont. ....	2,000,000
Paterson on Kam. River .....	N. M. Paterson & Co., Ft. William, Ont. ....	760,000
Western, on the Kam. River .....	Western Term. Elev. Co., Ltd., Ft. William, Ont. ....	2,250,000
<b>GLADSTONE, MICH.</b>		
Soo Line .....	Soo Line Ry. Co., Minneapolis, Minn. ....	450,000
<b>GODERICH, ONT.</b>		
Transit, in Harbor .....	Goderich Elev. & T. Co., Ltd., Goderich, Ont. ....	1,000,000
Elevator "A," South Side of Harbor .....	Western Canada Flour Mills Co., Ltd., Goderich, Ont. . .	200,000
Elevator "B" South Side of Harbor .....	Western Canada Flour Mills Co., Ltd., Goderich, Ont. . .	600,000
<b>GREEN BAY, WIS.</b>		
Cargill, Fox River .....	Cargill Grain Co., Milwaukee, Wis. ....	1,750,000
<b>KINGSTON, ONT.</b>		
Commercial, in Harbor .....	Jas. Richardson & Sons, Kingston, Ont. ....	225,000
Forwarder's, First in Harbor .....	Forwarder's, Ltd., Kingston, Ont. ....	500,000
Montreal, in Harbor .....	Montreal Trans. Co., Ltd., Kingston, Ont. ....	800,000
<b>MANITOWOC, WIS.</b>		
Elevator "A" .....	Western Elev. Co., 175 W. Jackson Blvd., Chicago, Ill. . .	1,000,000
Elevator "B" .....	Western Elev. Co., 175 W. Jackson Blvd., Chicago, Ill. . .	2,000,000



GRAIN ELEVATORS OF THE GREAT LAKES—Continued

No. of Legs	Marine Elevating Legs	Marine Loading Spouts	Capacity per hour of Legs or Spouts	Depth of Water Feet	Length of Vessel Can Reach Dock	Loading Capacity to Cars 10 Hours	RAILROAD CONNECTIONS	Elevating Charge per Bushel	Shoveling Charge per 1000 Bu.	Weighing Charge per 1000 Bu.	MANAGER OR SUPERINTENDENT
3		1	20,000	19	Any	40	C. P. R.	¾c		40c	D. W. Black
10		4	5,000	18	Any	40	C. P. R.	¾c		40c	J. W. Irwin
6		11	40,000	23			C. P. R.	¾c		40c	John Hayes
2		1	12,000	20	Any		C. P. R.	¾c		40c	Neil Black
15		11	6,000	23	Any		C. P. R.	¾c		40c	R. D. Morgan
1		1	12,000	23	Any		C. P. R.	¾c		40c	John Hayes
8		8	10,000	21	Any		C. P. R.	¾c		40c	J. Campbell
6		6	15,000	23	Any		C. P. R.	¾c		40c	K. Campbell
8		14	30,000	23	Any		C. P. R.	¾c		40c	James Smart
6		14	10,000	23	Any		C. P. R.	¾c		40c	Geo. McKay
8		8	12,000	21	Any		C. P. R.	¾c		40c	J. Campbell
5		6	15,000	21	Any		C. P. R.	¾c		40c	M. F. Beyer
3		3	45,000	22	Any	50	C. P. R.	¾c		40c	R. B. Paw
5		2	25,000	26	Any	40	C. P. R.	¾c		40c	Harry Sellers
2		2	15,000	20	Any	50	C. P. R.	¾c		40c	W. L. Loney
4	1	2	40,000	21	Any		C. P. R.	¾c		40c	D. E. McKay
15		5	25,000	21	Any	200	G. T. P.	¾c		40c	J. W. Irwin
7	None	3	10,000	22	Any	50	Soo				P. B. Hammond
4	1	None	15,000	23	500	100	C. P. R.-G. T.	½c	4.00	40c	G. L. Parsons
	None	None		21		20	G. T.-C. P. R.	½c	4.00	40c	J. W. Fraser
	1	None	15,000	23	416	100	G. T.-C. P. R.	½c	4.00	40c	J. W. Fraser
		5	4,000	20	Any		C. & N. W.	½c		50c	L. N. Cate
	1	2	14,000	20	200	50	C. P. R.-G. T.-C. N.	¼c	5.00		Jos. Gratton
1	1	10	15,000	35	Any	No	C. P. R.-G. T.-C. N.	¼c	5.00		R. A. McLelland
	1	2	10,000	17	500	40	C. P. R.-G. T.	¼c	5.00		E. A. Turner, Agt.
8		4	10,000	20	Any	30	C. & N. W.-Soo.				M. C. Herman
13		4	10,000	20	Any	60	C. & N. W.-Soo.				M. C. Herman

**GRAIN ELEVATORS OF THE GREAT LAKES—Continued**

NAME AND LOCATION	OPERATOR	Storage Capacity
<b>MIDLAND, ONT.</b> (See also Tiffin, Ont.)		
Midland, West Side of Harbor .....	Midland Elev. Co., Ltd., Midland, Ont. ....	1,200,000
Tiffin No. 2, Mouth of Wye River .....	Grand Trunk Ry. System, Midland, Ont. ....	2,250,000
<b>MILWAUKEE, WIS.</b>		
Rialto "A," Between C. & N. W. and Broadway Bridges .....	Rialto Elev. Co., 140 W. Vanburen, Chicago, Ill. ....	800,000
Rialto "B," Between C. & N. W. and Broadway Bridges .....	Rialto Elev. Co., 140 W. Vanburen, Chicago, Ill. ....	1,000,000
St. Paul "A," Elev. "A" Slip .....	Donahue & Stratton, Chamber of Com., Milwaukee, Wis. ....	1,000,000
St. Paul "E," Elevator "E" Slip .....	Taylor & Bournique Co., Milwaukee, Wis. ....	1,680,000
American Malting .....	American Malt. Co., Chicago, Ill. (Used for Storage only) .....	
Northwestern .....	Updyke Grain Co. ....	
<b>MONTREAL, QUEBEC</b>		
Warehouse "A," on Canal .....	Montreal Warehousing Co., Montreal, Que. ....	400,000
Grand Trunk on Canal and Annex on Canal .....	Montreal Warehousing Co., Montreal, Que. ....	2,180,000
Elevator No. 1, Elgin Basin .....	Harbor Commissioners, Montreal, Que. ....	1,000,000
Elevator No. 2 .....	Harbor Commissioners, Montreal, Que. ....	
<b>OGDENSBURG, N. Y.</b>		
Bill, Bell & Co., Oswegatchie River .....	D. Anderson, Ogdensburg, N. Y. ....	90,000
Ogdensburg Terminal .....	Rutland Transit Co., Ogdensburg, N. Y. ....	
<b>OSWEGO, N. Y.</b>		
Northwestern, West Side of River .....	Robt. Downey & Co., Oswego, N. Y. ....	500,000
<b>PORT ARTHUR, ONT.</b>		
C. N. Ry. "A" and Annex, in Harbor .....	Port Arthur Elev. Co., Port Arthur, Ont. ....	4,750,000
C. N. Ry. "B" and Annex, in Harbor .....	Port Arthur Elev. Co., Port Arthur, Ont. ....	4,750,000
Davidson & Smith, Southwest of C. N. Ry. Coal Dock .....	Davidson & Smith, Ft. William, Ont. ....	1,750,000
Government, S. W. of C. N. Ry. Coal Dock .....	Board of Grain Commissioners of Canada .....	3,250,000
Horn's, in Harbor .....	David Horn & Co. ....	750,000
Thunder Bay, S. W. of C. N. Ry. Coal Dock .....	Thunder Bay Elev. Co., Ft. William, Ont. ....	1,500,000
Grain Growers .....	United Grain Growers, Ltd., Ft. William, Ont. ....	600,000
<b>PORT COLBORNE, ONT.</b>		
Government Elevator, in Harbor .....	Dept. of Rys. and Canals, Port Colborne, Ont. ....	2,000,000
Maple Leaf Milling Co., Ltd. ....	Maple Leaf Milling Co., Ltd. ....	1,500,000
<b>PORT HURON, MICH.</b>		
Grand Trunk, St. Clair River .....	J. D. Menish, Lessee, Port Huron, Mich. ....	750,000

**GRAIN ELEVATORS OF THE GREAT LAKES—Continued**

No. of Legs	Marine Elevating Legs	Marine Loading Spouts	Capacity per hour of Legs or Spouts	Depth of Water Feet	Length of Vessel Can Reach Dock	Loading Capacity to Cars 10 Hours	RAILROAD CONNECTIONS	Elevating Charge per Bushel	Shoveling Charge per 1000 Bu.	Weighing Charge per 1000 Bu.	MANAGER OR SUPERINTENDENT
	1	None	10,000	26	555-55 Beam	100	G. T	1/4 c	3.00		J. J. Mullen
	2	1	20,000	26	Any		G. T	1/4 c	3.00		R. F. White
12		4	5,000	20	Any	40	C. & N. W.-C. M. & St. P.	1/2 c			R. L. Bennett
20		5	6,000	20	425	25	C. & N. W.-C. M. & St. P.	1/2 c			R. L. Bennett
12		4	3,500	17	400	20	C. M. & St. P.	1/2 c			H. H. Hicks
23		7	7,000	20	400	90	C. M. & St. P.	1/2 c			O. J. Knoebel
4	1	1	5,000	14	300	40	G. T.	1/4 c	2.00		Geo. Wilkinson
11	1	19	10,000	30	600	100	G. T.				Geo. Holtby
	2	Every 40'	16,000	30	500	100	G. T.				Jeremiah Nehin
	1	None	3,000	18	Canal Boats Only			1/4 c	3.00		
3	2	2	8,000	15	300	50	D., L. & W.	3/4 c	3.50		J. F. Whitney
10		10	80,000	22	Any	50	C. N.	3/4 c		40c	W. G. McKenna
10		10	10,000	22	650	50	C. N.	3/4 c		40c	W. G. McKenna
11	1	50	60,000	25	650	100	C. N.	3/4 c		40c	Geo. D. Gale
20		7	50,000	24	605		C. P. R.	3/4 c		40c	Archie Burce
11		2	20,000	22	Any	300	C. N.	3/4 c		40c	J. Riddle
10		6	60,000	24	Any		C. N.	3/4 c		40c	J. Campbell
1		1	35,000	25	Any	30	C. N.	3/4 c		40c	Murdock MacKay
							D	1/2 c			
4	4	9	18,000	22	Any	150	GT,MC-TH-BRY-CNE	1/2 c	3.75*	None	W. F. Fawcett
4	1	3	10,000	22	Any	50	G. T.-N. S. & T.	1/4 c			W. Stud
4	1	1	16,000	22	Any	60	G. T.-P. M.	1/2 c	3.50		J. D. Minich

**GRAIN ELEVATORS OF THE GREAT LAKES—Continued**

NAME AND LOCATION	OPERATOR	Storage Capacity
<b>PORT McNICOLL, ONT.</b>		
C. P. R., East Side of Harbor .....	C. P. R. Co. ....	5,000,000
<b>PRESCOTT, ONT.</b>		
Terminal, St. Lawrence River .....	Prescott Term. Elevator Co., Ltd., Prescott, Ont. ....	1,000,000
<b>SANDUSKY, OHIO</b>		
B. & O., in Harbor .....	Rosenbaum Grain Co., 141 W. Jackson Blvd., Chicago, Ill.	300,000
<b>SOUTH CHICAGO, ILL. (See also Chicago, Ill.)</b>		
Calumet "A," Slip No. 2, Calumet River .....	Central Elev. Co., 111 W. Jackson Blvd., Chicago, Ill...	1,000,000
Calumet "B," Slip No. 2, Calumet River .....	Central Elev. Co., 111 W. Jackson Blvd., Chicago, Ill...	1,000,000
Calumet "C," Slip No. 2, Calumet River .....	Central Elev. Co., 111 W. Jackson Blvd., Chicago, Ill...	1,200,000
Calumet River Elevator, 96th St. ....	Calumet Grain & Elev. Co., Chicago, Ill. ....	350,000
Irondale "A" and "B," Calumet River .....	Rosenbaum Grain Co., Chicago, Ill. ....	1,000,000
Keystone, Calumet River .....	E. R. Bacon & Co., 230 S. LaSalle, Chicago, Ill. ....	1,500,000
Merritt, Calumet River .....	W. H. Merritt, 141 W. Jackson Blvd., Chicago, Ill. ....	2,250,000
Peavey "A" and "B," Calumet River .....	Rosenbaum Grain Co., 141 W. Jackson Blvd., Chicago, Ill.	1,250,000
Rialto "A," 104th St. ....	Rialto Elevator Co., 140 W. Vanburen, Chicago, Ill. ...	3,000,000
So. Chicago "C" and Annex, Calumet River .....	So. Chicago Elev. Co., 234 S. LaSalle, Chicago, Ill. ....	1,500,000
So. Chicago "D," Calumet River .....	So. Chicago Elev. Co., 234 S. LaSalle, Chicago, Ill. ....	2,250,000
<b>SUPERIOR, WIS. (See also Duluth, Minn.)</b>		
Belt Line, Lower Superior Harbor .....	Globe Elev. Co., Board of Trade, Duluth, Minn. ....	5,000,000
Globe Nos. 1, 2, 3, Superior Harbor .....	A. D. Thompson & Co., Board of Trade, Duluth, Minn.	7,500,000
Great Northern "S" and Annex G. N. Slip .....	Cargill Commission Co., Board of Trade, Duluth, Minn.	500,000
Terminal "K," Old Town .....	Cargill Commission Co., Board of Trade, Duluth, Minn.	2,000,000
Terminal "M" and "N," Old Town .....	E. R. Bacon & Co., 230 S. LaSalle, Chicago, Ill. ....	1,000,000
<b>TIFFIN, ONT. (See also Midland, Ont.)</b>		
Aberdeen, in Harbor .....	Aberdeen Elevator Co. ....	500,000
<b>TOLEDO, OHIO</b>		
C. H. & D. Elevator .....	Lake Erie Elevator Co., 77 Board of Trade, Chicago Ill..	1,500,000
East Side Elevator, Maumee and L. S. & M. S. ....	East Side Iron Elev. Co., Toledo, Ohio .....	1,250,000
National, Maumee River. ....	National Elevator Co., Toledo, Ohio .....	C. P. Ry. Co., Port McNicoll, Ont. ....
<b>VICTORIA HARBOR, ONT.</b>		
<b>WALKERVILLE, ONT.</b>		
Hiram Walker & Sons, Ltd. ....	Hiram Walker & Sons, Ltd. ....	300,000

GRAIN ELEVATORS OF THE GREAT LAKES—Continued

No. of Legs	Marine Elevating Legs	Marine Loading Spouts	Capacity per hour of Legs or Spouts	Depth of Water Feet	Length of Vessel Can Reach Dock	Loading Capacity to Cars 10 Hours	RAILROAD CONNECTIONS	Elevating Charge per Bushel	Shoveling Charge per 1000 Bu.	Weighing Charge per 1000 Bu.	MANAGER OR SUPERINTENDENT
2	2	2	20,000	26	Any	150	C. P. R.	½c	4.00	40c	John Callard
	1	8	10,000	20	Any	7	C. P. R.	¼c	\$2.50		J. R. Taylor
	1	2	5,000	18	320	40	B. & O.	½c	3.50	15c	E. G. Curry
10		5	12,000	21	500	100	Belt Line	¼c			R. C. Anthony
4		4	8,000	21	600	100	Belt Line	¼c			R. C. Anthony
4	1	4	10,000	21	600	100	Belt Line	¼c			R. C. Anthony
7		2	7,500	18	700	40	Belt Line	¼c			M. H. Bennett
6		6	15,000	22	350	100	Belt Line	¼c			Wm. Pilgrim
	1	4	8,000	20	Any	100	Belt Line	¼c			Fred Hawley
10		8	15,000	22	Any	200	Belt Line	¼c			D. H. Douville
16	1	8	6,000	20	Any		Belt Line				H. S. Cox
8		4	6,000	20	Any		Belt Line				B. L. Coon
8		7	8,000	20	Any	50	All Roads			75c	E. S. Morgan
18		9	8,000	21	Any	60	All Roads			75c	Mat Pelto
18	None	18	12,000	23	Any	100	G. N.-N. P.-Omaha-Soo-			75c	A. B. Clark
8		7	5,000	22	650	50	N. P. D.S.S.&A.			75c	Louis Ramstad
10		4	12,000	22	650	60	N. P.			75c	E. McManus
4	1	1	25,000	26	Any	200	G. T.	¼c	3.00		R. P. Reid
	1	3	8,000	20	600	80	All Roads	½c	3.75	15c	Geo. D. Woodman
4	1	1	10,000	22	600	50	N. Y. C. Lines	½c	3.75	15c	I. J. Roether
	1		8,000	18	400	80	Belt Line	½c	3.75	15c	A. C. Brantingham
	1	1	2,500	18	Any	10	G. T. & Wabash				



**STEAMER MYRON**

This Steamer is operated in the Lumber trade on the Great Lakes and is managed by  
O. W. Blodgett, Duluth, Minn.

## LUMBER CARRIERS OF THE GREAT LAKES

STEAMERS	Thousand Feet Capacity
Argo . . . . .	825
Arizona . . . . .	675
Aztec . . . . .	700

BARGES	Thousand Feet Capacity
Andrews, A. L. (Can.) . . . . .	275
Arthur . . . . .	1,200
Ashland . . . . .	1,000
Atlasca (Can.) . . . . .	1,100
Augustus (Can.) . . . . .	900

STEAMERS	Thousand Feet Capacity
Boyce, Mary H. . . . .	700
Bradley, Charles H. . . . .	800
Buckley, Edward . . . . .	375
Buell, F. R. . . . .	750

BARGES	Thousand Feet Capacity
Bloom, Nelson . . . . .	700
Bottsford, Rhoda . . . . .	775
Brainard, Katie (Can.) . . . . .	600
Brightie . . . . .	700
Buckhout, B. B. . . . .	475

STEAMERS	Thousand Feet Capacity
Carter, W. J. . . . .	350
Chamberlin, C. W. (Can.) . . . . .	375
Cherokee . . . . .	850
Chipman, Susie . . . . .	270
Christie, T. S. . . . .	550

BARGES	Thousand Feet Capacity
Cahoon, Thomas H. (Can.) . . . . .	650
Carney, Fred . . . . .	550
Casey, Lyman (Can.) . . . . .	300

BARGES	Thousand Feet Capacity
Coates, L. B. . . . .	245
Cobalt (Can.) . . . . .	475
Commodore . . . . .	775
Cook, Mary Ellen . . . . .	200
Corning, Ida . . . . .	800
Corry, Mike . . . . .	500
Crane, J. L. . . . .	800
Cyrenian (Can.) . . . . .	375

STEAMERS	Thousand Feet Capacity
Donaldson, J. P. . . . .	500

BARGES	Thousand Feet Capacity
Davis, Lyman M. . . . .	270
Dayton . . . . .	670
Delaware . . . . .	650
Delta . . . . .	475
Dobbins, D. P. . . . .	550
Dundee (Can.) . . . . .	375
Dunn, S. H. (Can.) . . . . .	600

BARGES	Thousand Feet Capacity
Edwards, J. R. . . . .	680
Eleanor . . . . .	650
Elida . . . . .	325
Ewen, Frank D. (Can.) . . . . .	

STEAMERS	Thousand Feet Capacity
Farwell, Jessie H. . . . .	900
Ford, J. C. . . . .	550

BARGES	Thousand Feet Capacity
Filer, D. L. . . . .	550

LUMBER CARRIERS OF THE GREAT LAKES—Continued

BARGES	Thousand Feet Capacity
Filer, Grace M. ....	400
Filmore, C. J. ....	550
Ford River (Can.) ....	400
Francombe, J. A. ....	800
Freeport . . . . .	500
Fryer, Robt. L. ....	800

STEAMERS	Thousand Feet Capacity
Green, C. H. ....	675
Greene, M. T. ....	450

BARGES	Thousand Feet Capacity
Gawn, Thomas ....	700
Genoa . . . . .	800
Godfrey, Jermiah ....	700
Goshawk . . . . .	680

STEAMERS	Thousand Feet Capacity
Hall, Stephen C. ....	500
Hazard, W. A. ....	450
Helen C. ....	700
Hettler, H. H. ....	1,000
Holcomb, Ralph T. ....	400

BARGES	Thousand Feet Capacity
Herschel . . . . .	275
Harrison, Ben . . . . .	750
Helvetia . . . . .	900
Hoboken . . . . .	375
Holland, Grace . . . . .	800
Holland, Nelson C. . . . .	750
Hutchinson, E. C. . . . .	1,000

STEAMERS	Thousand Feet Capacity
Ida E. ....	350

BARGES	Thousand Feet Capacity
Jackson, G. K. (Can.) ....	600
Jennette (Can.) . . . . .	475
Jones, Chester B. . . . .	700

STEAMERS	Thousand Feet Capacity
Kalkaska . . . . .	750
Kendall, Harvey J. . . . .	400
Ketchum, J. B. 2d (Can.) . . . . .	1,100
King, Geo. . . . .	500

BARGES	Thousand Feet Capacity
Keith, Ida . . . . .	650
Kelderhouse, John . . . . .	600
Ketcham, J. L. . . . .	550
King, A. B. . . . .	800
Kitchen, J. B. . . . .	400
Knapp, F. M. . . . .	500

STEAMERS	Thousand Feet Capacity
Lake Michigan (Can.) . . . . .	400
Langell Boys . . . . .	800
Langell, Simon . . . . .	800
Linden . . . . .	900

BARGES	Thousand Feet Capacity
Lake Forest . . . . .	400
Liberty . . . . .	800
Lozen, J. B. . . . .	800
Luckey, A. W. . . . .	450



LUMBER CARRIERS OF THE GREAT LAKES—Continued

BARGES	
	Thousand Feet Capacity
Lyon, Mary .....	425

STEAMERS	
	Thousand Feet Capacity
Markham, Geo. C. ....	450
Marshall, Maggie .....	500
Marshall, Samuel .....	800
Maud . . . . .	100
McGregor, Mary A. ....	710
McLouth, Pierce .....	500
Mills, David W. ....	1,000
Mitchell, G. A. ....	750
Mueller . . . . .	550
Myron . . . . .	700

BARGES	
	Thousand Feet Capacity
Magill, C. J. (Can.) .....	400
Matthews, Jennie .....	400
McGregor, Wm. ....	800
McAvay, H. J. ....	750
Merrill, Julia B. ....	325
Mingoe . . . . .	935
Minch, Sophia .....	850
Miztec . . . . .	1,050

STEAMERS	
	Thousand Feet Capacity
Neff, Sidney O. ....	400
Nessen, N. J. ....	500
Niagara . . . . .	1,700
Nicaragua . . . . .	1,300
Niko . . . . .	825

BARGES	
	Thousand Feet Capacity
Nau, Libbie .....	300
Newland, J. B. ....	230
Norris, Alice B. ....	800

STEAMERS	
	Thousand Feet Capacity
Ogemaw . . . . .	500
Overland . . . . .	850

BARGES	
	Thousand Feet Capacity
Oak Leaf .....	540
Oneida . . . . .	270
Orton, Minnie E. ....	700
Ottawa . . . . .	245
Our Son .....	800
Owen, Geo. B. ....	1,000

STEAMERS	
	Thousand Feet Capacity
Pahlow, Louis .....	475
Parks, O. E. ....	400

Pawnee . . . . .	600
Pentland . . . . .	800
Peters . . . . .	600
Prentice, J. H. ....	525

BARGES	
	Thousand Feet Capacity
Peshtigo . . . . .	975
Pomeroy, S. B. ....	525

STEAMERS	
	Thousand Feet Capacity
Ralph, P. J. ....	1,000
Runnells, H. E. ....	750

BARGES	
	Thousand Feet Capacity
Redfern, C. E. ....	900
Redington, Nellie .....	950

STEAMERS	
	Thousand Feet Capacity
Sawyer, Wm. H. ....	850

LUMBER CARRIERS OF THE GREAT LAKES—Continued

STEAMERS	Thousand Feet Capacity
Seymour, R. A., Jr. ....	250
Shrigley, James H. ....	575
Sicken, M. ....	250
Soper, Albert ....	400
Starke, C. H. ....	500
Stephenson, I. W. ....	725
Stephenson, S. M. ....	700

BARGES	Thousand Feet Capacity
Scotia . . . . .	1,050
Selkirk . . . . .	850
Simpson, Lucia A. . . . .	350
Skeele, E. E. . . . .	275
Stafford . . . . .	350
Stanley, H. M. (Can.) . . . . .	500
Sweetheart . . . . .	840

STEAMERS	Thousand Feet Capacity
Tempest No. 1 . . . . .	450
Toltec . . . . .	700

BARGES	Thousand Feet Capacity
Taber, Horace . . . . .	300
Taylor, J. V. . . . .	250
Three Brothers . . . . .	450
Tilden, S. J. . . . .	775
Troy . . . . .	700
Tuxberry, A. C. . . . .	900

BARGES	Thousand Feet Capacity
Twin Sisters . . . . .	1,000

STEAMERS	Thousand Feet Capacity
United Lumberman (Can.) . . . . .	425

BARGES	Thousand Feet Capacity
Uranus . . . . .	600

STEAMERS	Thousand Feet Capacity
Viking . . . . .	1,100

STEAMERS	Thousand Feet Capacity
Warren, Homer . . . . .	500
Wente, Robert C. . . . .	400
Wilson, Mathew . . . . .	400
Winnipeg . . . . .	1,300
Wotan . . . . .	800

BARGES	Thousand Feet Capacity
White & Fryant . . . . .	575
Williams, Ellen . . . . .	375
Woodlands . . . . .	770
Woolson, Mary . . . . .	900
Wright, A. W. . . . .	700
York State . . . . .	400

STEAMERS	Thousand Feet Capacity
Zillah . . . . .	800

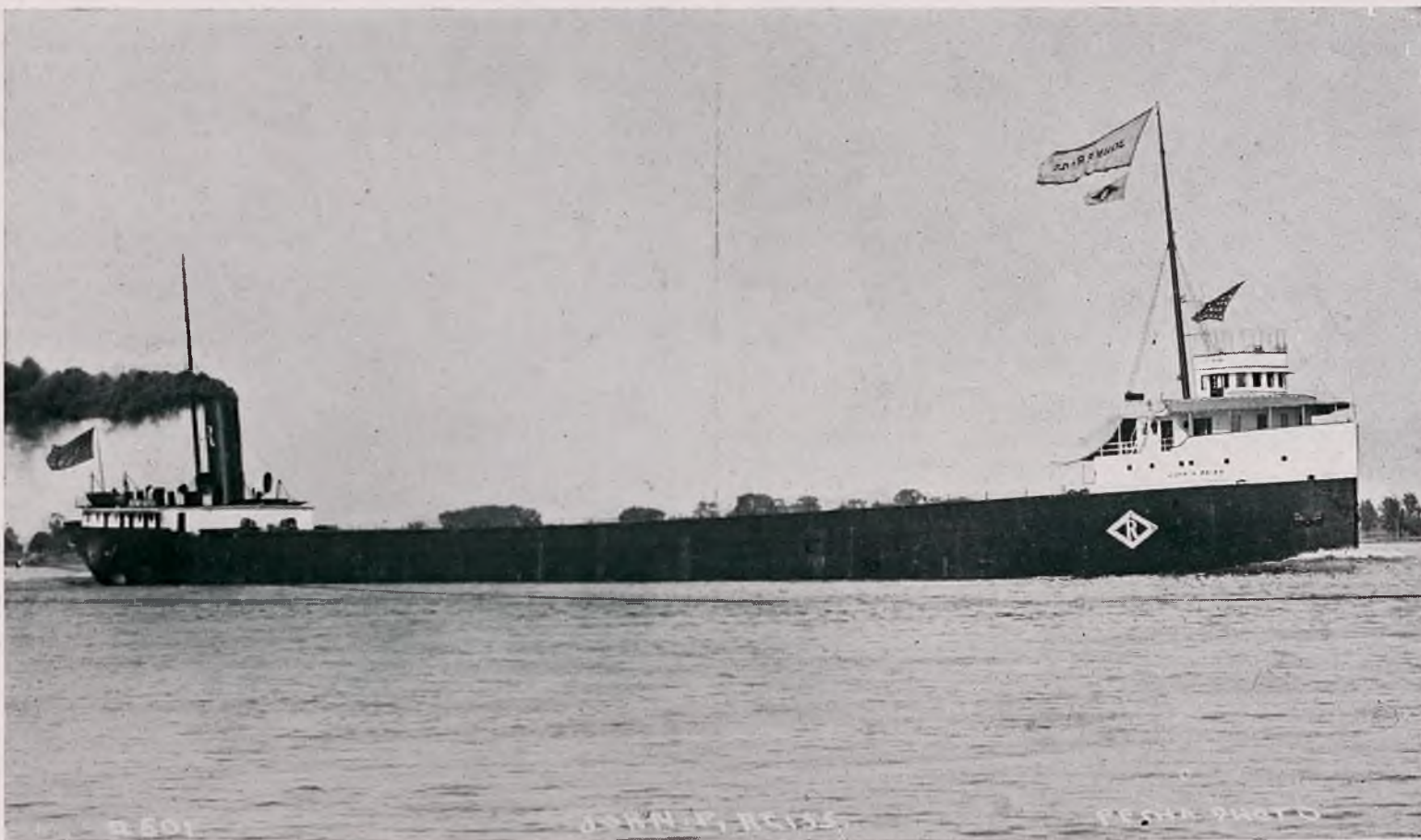
BARGES	Thousand Feet Capacity
Zapotec . . . . .	1,050

## DRY DOCKS OF THE GREAT LAKES

LOCATION	NAME	KIND	DIMENSIONS		
			Length	Breadth	Depth
Ashtabula, Ohio. ....	Great Lakes Engineering Works .....	Graving .....	650	85	16
Bay City, Mich. ....	Bay City Dry Dock Co. ....	Graving .....	316	42½	13½
	James Davidson .....	" .....	435	60	14½
Buffalo, N. Y. ....	Buffalo Dry Dock Co. ....	" .....	620	74	15
	" " " " .....	" .....	429	58½	16
	" " " " .....	" .....	375	45	15
	Empire Ship Bldg. Co. ....	" .....	130	36	13
	" " " " .....	" .....	100	26	9
Chicago, Ill. ....	Ship Owners Dry Dock Co. ....	" .....	500	62	19
	" " " " " .....	" .....	260	40	9
	" " " " " .....	" .....	310	50	14
Cleveland, Ohio .....	American Ship Bldg. Co. ....	" .....	550	62	19
	" " " " " .....	" .....	450	48	16
	" " " " " .....	" .....	330	50	20
Collingwood, Ont. ....	Collingwood Ship Bldg. Co. ....	" .....	515	58	16
	" " " " " .....	" .....	420	100	16
Detroit, Mich. ....	Detroit Ship Bldg. Co. ....	" .....	387	78	16
	" " " " " .....	" .....	245	48	8
	Walter N. Oades .....	Marine Railway .....	186	36	14
Duluth, Minn. ....	Napoleon Grignon .....	Floating .....	60	57½	12
Ecorse, Mich. ....	Great Lakes Engineering Works .....	" .....	786	88	18
Grand Haven, Mich. ....	Mechanics Dry Dock .....	Sectional .....			9
	T. W. Kirby .....	Floating .....	140	42	8
	Joe Croze .....	Graving .....	100	23	10
Houghton, Mich. ....	Government Dock .....	" .....	290	57	16
	Davis Dry Dock Co. ....	" .....	182	31	
	Kingston Dry Dock Co. ....	" .....	183	31	
	Geo. T. Davie & Sons .....	Floating .....	180	42	13
Levis, Quebec .....	" " " " " .....	Graving .....	600	62	23
	" " " " " .....	" .....	764	80	15½
Lorain, Ohio .....	American Ship Bldg. Co. ....	" .....	560	60	18
Manistee, Mich. ....	" " " " " .....	" .....	168	52	16
	Manistee Iron Works Co. ....	Floating .....			
Manitowoc, Wis. ....	Manitowoc Ship Bldg. & Dry Dock Co. ....	" .....	350	44	12½
	" " " " " .....	" .....	480	88	16

DRY DOCKS OF THE GREAT LAKES—Continued

LOCATION	NAME	KIND	DIMENSIONS		
			Length	Breadth	Depth
Milwaukee, Wis. ....	Milwaukee Dry Dock Co. ....	Graving .....	455	60	13½
	“ “ “ “ .....	“ .....	320	45	12
	“ “ “ “ .....	Floating .....	130		
	“ “ “ “ .....	“ .....	90		
Montreal, Canada .....	Vickers, Ltd. ....	Sectional.....	600	135	17
Ogdensburg, N. Y. ....	St. Lawrence Marine Ry. Co. ....	Marine Railway.....	300	52	16
Oswego, N. Y. ....	Ontario Dry Dock Co. ....	Graving .....	166	36	10
Owen Sound, Ont. ....	Owen Sound Dry Dock Co. ....	“ .....	300	55	10
Pt. Arthur, Ont. ....	Pt. Arthur Ship Bldg. Co., Ltd. ....	“ .....	736	99	16½
Pt. Dalhousie, Ont. ....	Muir Brothers .....	Three Sections .....	300	46	11
Pt. Huron, Mich. ....	Reid Wrecking Co. ....	Graving .....	412	62	18
	Wolverine Dry Dock .....	Floating .....	208		
Rocky River, Ohio .....	Rocky River Dry Dock Co. ....	Marine Railway .....	200	40	12
Sandusky, Ohio .....	Lake Erie Dry Dock & Mill Co. ....	Marine Railway .....	160		8½
Saginaw, Mich. ....	Clarke, Stickney & Cram .....	“ “ .....	150		10
Sault Ste. Marie, Mich. ....	Hickler Brothers .....	“ “ .....	190		14½
So. Chicago, Ill. ....	Chicago Ship Bldg. Co. ....	Graving .....	734	103	22½
Sturgeon Bay, Wis. ....	Riebolt, Wolter Co. ....	Floating .....	225		13½
	“ “ “ “ .....	“ .....	150		12½
	“ “ “ “ .....	“ .....			
Superior, Wis. ....	Superior Ship Bldg. Co. ....	Graving .....	620	67	19
	“ “ “ “ .....	“ .....	591	64	14
Toledo, Ohio .....	Great Lakes Dredge & Dock Co. ....	Floating .....	59	54	12
	Toledo Ship Bldg. Co. ....	Graving .....	675	82	16
	“ “ “ “ .....	“ .....	570	72	14
	“ “ “ “ .....	“ .....	235	37	9
Toronto, Ont. ....	A. Gilmore & Sons .....	Marine Railway .....	100	30	10½
	Toledo Marine Railway .....	“ “ .....	200	32	12
	P. Arnot .....	“ “ .....			
Wyandotte, Mich. ....	Polson Iron Works, Ltd. ....	Floating .....	330	72	35' 4"
	Davis Boat & Oar Co. ....	Marine Railway.....	140		10½



**STEAMER JOHN P. REISS**  
Owned by the North American S. S. Co., F. I. Kennedy, Mgr.

MISCELLANEOUS

PLANT INVESTMENTS MADE BY THE EMERGENCY FLEET CORPORATION.

Investments In Shipyards.

Hog Island, Philadelphia .....	\$63,300,000
Submarine Boat Corp., Newark, N. J. ....	17,000,000
Merchants Shipbuilding Corp., Bristol, Pa. ....	11,000,000
New York Shipbuilding Corp., Camden, N. J. ....	14,000,000
Carolina Shipbuilding Co., Wilmington, N. C. ....	2,000,000
Seattle Construction & Drydock Co., Seattle .....	6,000,000
Newport News Shipbuilding & Drydock Co., Newport News, Va. ....	550,000
Bethlehem Shipbuilding Corp. (Harlan) .....	141,000
Bethlehem Shipbuilding Corp. (Sparrows Point) .....	3,100,000
Bethlehem Shipbuilding Corp. (Union) .....	1,500,000
Newburgh Shipyards, Inc., Newburgh, N. Y. ....	550,000
Concrete Shipyards .....	5,000,000

Note—Investment in the yard of the New York Shipbuilding Corp. would have amounted to \$16,825,000, but a part of this extension was cancelled after the armistice, reducing the investment by \$2,825,000. The concrete shipyards will be government owned and will cost \$1,000,000 each to build. They will be located at San Diego, Cal.; Oakland, Cal.; Wilmington, N. C.; Mobile, Ala. and Jacksonville, Fla.

Incidental Yard Investments.

Small tools, fire protection, dredging .....	\$6,000,000
Plant protection .....	2,000,000

Total investment in shipyards .....

Investments in Steel Fabricating Plants.

Ralston Steel Car Co., Columbus, O. ....	\$354,000
Standard Steel Car Co., Pittsburgh .....	900,000
Baltimore Car & Foundry Co., Baltimore .....	750,000
John Brennan & Co., Detroit .....	233,000
Pressed Steel Car Co., Pittsburgh .....	267,000
Midland Bridge Co., Kansas City, Mo. ....	375,000

Total .....

Investments in Drydocks.

Bethlehem Shipbuilding Corp. ....	\$1,250,000
Alabama Dry Dock & Shipbuilding Co., Mobile, Ala. ....	560,000
Terry & Britain, Savannah, Ga. ....	577,000
Terry & Britain, Jacksonville, Fla. ....	572,000
Beaumont Shipbuilding & Dry Dock Co., Beaumont, Tex. ....	350,000
Galveston Dry Dock & Construction Co., Galveston, Tex. ....	675,000
Jahncke Shipbuilding Co., Madisonville, La. ....	700,000
Services, Wm. T. Donnelly, New York .....	275,000
George Leary Construction Co. ....	1,365,000

Total .....

Investments In Marine Railways.

Cumberland Shipbuilding Co., Portland, Me. ....	\$100,000
Crowninshield Shipbuilding Co., South Somerset, Mass. ....	100,000
Newcomb Lifeboat Co., Hampton, Va. ....	100,000
R. S. Salas .....	100,000
Terry & Britain, Savannah, Ga. ....	100,000
Tampa Dock Co., Tampa, Fla. ....	100,000
Henderson Shipbuilding Co., Mobile, Ala. ....	100,000
Barnes & Tibbetts, Alameda, Cal. ....	110,000
Crandell Services .....	68,500

Total .....

Total investments in ship plant facilities .....

Investments In Housing Projects.

Atlantic Corp., Portsmouth, N. H. ....	\$1,900,000
Newport News Shipbuilding & Dry Dock Co., Newport News, Virginia .....	4,880,550
New York Shipbuilding Co., Camden, N. J. ....	9,525,000
Pusey & Jones, Gloucester, N. J. ....	2,470,000
Bethlehem Shipbuilding Corp. and Pusey & Jones, Wilmington, Del. ....	3,000,000
Bethlehem Shipbuilding Corp., Sparrows Point, Md. ....	4,500,000
Chester Shipbuilding Co., Chester, Pa. ....	3,250,000
Texas Shipbuilding Co., Bath, Me. ....	750,000
Merchants Shipbuilding Co., Bristol, Pa. ....	5,380,000
American International Shipbuilding Co., Philadelphia .....	10,031,000
Sun Shipbuilding Co., Chester, Pa. ....	3,560,000
J. M. Standifer Construction Co., Vancouver, Wash. ....	350,000
Bayles Shipbuilding Co., Port Jefferson, N. Y. ....	300,000
American Shipbuilding Co., Lorain, O. ....	1,260,000
Merrill Stevens Co., Jacksonville, Fla. ....	650,000
Westinghouse Electric & Mfg. Co., Essington, Pa. ....	1,200,000
Terry Shipbuilding Co., Savannah, Ga. ....	750,000
Traylor Shipbuilding Co., Cornwells Heights (for tents), Pa. ....	5,000
Pensacola Shipbuilding Co., Pensacola, Fla. ....	660,000
Pacific Coast Shipbuilding Co., Suisun Bay, Cal. ....	750,000
Detroit Shipbuilding Co., Wyandotte, Mich. ....	385,000
Manitowoc Shipbuilding Co., Manitowoc, Wis. ....	560,000
Groton Iron Works, Groton, Conn. ....	1,200,000
Newburgh Ship Co., Newburgh, N. Y. ....	900,000
Louisiana Shipbuilding Co., Slidell, La. ....	50,000

\$58,266,500

Reserve 15 per cent .....

Expenses .....

\$9,739,975

Total .....

MISCELLLENEOUS

Investments in Transportation Lines.

Texas Shipbuilding Co., Bath, Me. ....	\$170,500
Bethlehem Shipbuilding Corp., Fore River, Quincy, Mass. ....	164,000
Staten Island Shipyards, Staten Island, N. Y. ....	645,000
Foundation Co., Kearny, N. J. ....	39,586
Submarine Boat Co., Newark, N. J. ....	821,739
New York Shipbuilding Co., Camden, N. J. ....	1,240,680
Pusey & Jones Co., Gloucester, N. J. ....	215,947
American International Corp., Hog Island, Pa. ....	3,105,000
Chester and Essington plants, Pa. ....	1,225,360
Baltimore Shipyards, Sparrows Point, Md. ....	989,638
Newport News Shipbuilding & Dry Dock Co., Newport News, Va. ....	300,000
Terry Shipyards, Savannah, Ga. ....	4,416
Tacoma Shipyards, Tacoma, Wash. ....	232,400
Portland Railway & Light Co., Portland, Oreg. ....	171,000
Moore Shipbuilding Co., Oakland, Cal. ....	9,675
Bethlehem Shipbuilding Co., Oakland, Cal. ....	465,600
Mobile Light & Railway Co., Mobile, Ala. ....	60,000
Duluth Street Railway, Duluth ....	100,000
Lone Star Shipbuilding Co., ferry equipment, Beaumont, Tex. ....	3,250
Tidewater Power Co., Wilmington, N. C. ....	350,000
Lake Shore & Michigan Southern R. R. Co. ....	6,000
Municipal Railway System, Seattle ....	377,000
Arthur W. Horton, Portsmouth, N. H. ....	4,000
Total . . . . .	\$10,700,791
Total of all investments . . . . .	\$210,929,766

ACCIDENT STATEMENT FOR YEARS 1909-1918.

Comparative Statement of Accidents Reported During Sailing Seasons.

	'09	'10	'11	'12	'13	'14	'15	'16	'17	'18
Strandings . . . . .	54	9	14	31	20	18	30	18	23	22
Groundings . . . . .	128	60	42	30	19	21	28	30	26	44
Collisions . . . . .	125	88	66	50	52	15	26	31	39	33
Striking obstructions . . . . .	25	17	8	12	10	2	2	1	8	..
Striking locks . . . . .	5	1	2	2	1	..	..	..	3	..
Striking bridges, abutments, docks, breakwaters, buildings, piers, buoy lights, canal walls, harbor and channel banks, cribs, etc. . . . .	48	40	38	38	30	22	28	35	40	49
Fire damage . . . . .	3	1	4	..	..	1	1	..	2	1
Explosions . . . . .	..	1	..	..	..	..	1	..	1	..
Stress of weather . . . . .	9	2	..	2	4	..	1	2	4	4
Machinery damage . . . . .	12	1	4	1	3	2	..	3	4	8

	'09	'10	'11	'12	'13	'14	'15	'16	'17	'18
Rudder damage . . . . .	..	4	5	1	1	..	..	..	1	..
Wheel damage . . . . .	..	4	7	..	..	1	3	8	7	6
Bent and broken quadrants . . . . .	..	1	2	..	..	..	..	..	..	..
Boiler damage . . . . .	2	..	..	..	..	1	..	..	..	..
Collapsed decks . . . . .	2	..	..	..	..	..	..	..	..	..
Cargo heating . . . . .	1	..	..	..	..	..	..	..	..	..
Legal expenses . . . . .	2	..	..	..	..	1	..	..	..	..
Lost anchor and chain . . . . .	1	..	1	..	..	..	..	..	2	3
Ice Damage . . . . .	1	..	..	..	1	..	..	1	52	10
Salvage Association fees . . . . .	5	..	..	..	..	..	..	..	..	..
Unknown . . . . .	1	..	..	..	..	..	..	..	..	..
Broken deck winches . . . . .	..	..	1	..	..	..	..	..	..	..
Loading rig fell on deck . . . . .	..	..	1	..	..	3	..	..	..	..
Broken quadrant and rudder . . . . .	..	..	..	1	..	..	..	..	..	..
Cargo shifted . . . . .	..	..	..	1	..	..	..	..	..	..
Ran over wreck Steamer Joliet . . . . .	..	..	..	1	..	..	..	..	..	..
Lost shoe and rudder . . . . .	..	..	..	2	..	..	..	1	..	2
Flooded: Open sea cock . . . . .	..	..	..	1	..	..	..	..	..	..
Dented plate . . . . .	..	..	..	1	..	..	..	..	..	..
Twisted rudder stock . . . . .	..	..	..	1	..	..	..	..	..	..
Gas explosion . . . . .	..	..	..	1	..	..	..	..	..	..
Personal injuries . . . . .	..	..	..	..	..	2	..	..	..	..
Mooring damage . . . . .	..	..	..	..	..	3	..	..	..	1
Damaged lines . . . . .	..	..	..	..	..	..	..	2	2	..
Broken steering gear . . . . .	..	..	..	..	..	..	..	..	1	..
Damaged spar . . . . .	..	..	..	..	..	..	..	..	..	2
Unloading machinery damage . . . . .	..	..	..	..	..	..	..	..	..	1
Struck unloading rig . . . . .	..	..	..	..	..	..	..	..	..	3
Total losses . . . . .	4	6	3	1	9	..	2	1	1	..
Total . . . . .	428	235	198	177	150	92	122	133	216	189

Certificates written in 1909 on . . . . .	370	vessels
Certificates written in 1910 on . . . . .	402	vessels
Certificates written in 1911 on . . . . .	295	vessels
Certificates written in 1912 on . . . . .	329	vessels
Certificates written in 1913 on . . . . .	211	vessels
Certificates written in 1914 on . . . . .	179	vessels
Certificates written in 1915 on . . . . .	168	vessels
Certificates written in 1916 on . . . . .	175	vessels
Certificates written in 1917 on . . . . .	186	vessels
Certificates written in 1918 on . . . . .	174	vessels

## COMPARATIVE FREIGHT RATES—GRAIN PER BUSHEL, IRON ORE PER GROSS TON

Rate in cents per bushel	Equivalent in Iron Ore Per Gross Ton			
	Corn, flax and rye. 56 pounds per bushel, 40 bushels per gross ton	Wheat 60 pounds per bushel, 37 1-3 bushels per gross ton	Barley 48 pounds per bushel, 46 2-3 bushels per gross ton	Oats 32 pounds per bushel, 70 bushels per gross ton
3/4	\$ 30	\$ 28	\$0 35	\$0 52 1/2
7/8	35	32 2/3	40 <sup>5</sup> / <sub>8</sub>	61 1/4
1	40	37 1/3	46 <sup>2</sup> / <sub>3</sub>	70
1 1/8	45	42	52 1/2	78 3/4
1 1/4	50	46 2/3	58 1/3	87 1/2
1 3/8	55	51 1/3	64 1/6	96 1/4
1 1/2	60	56	70	1 05
1 5/8	65	60 2/3	75 <sup>5</sup> / <sub>8</sub>	1 13 3/4
1 3/4	70	65 1/3	81 <sup>2</sup> / <sub>3</sub>	1 22 1/2
1 7/8	75	70	87 1/2	1 31 1/4
2	80	74 2/3	93 1/3	1 40
2 1/8	85	79 1/3	99 1/6	1 48 3/4
2 1/4	90	84	1 05	1 57 1/2
2 3/8	95	88 2/3	1 10 <sup>5</sup> / <sub>8</sub>	1 66 1/4
2 1/2	1 00	93 1/3	1 16 <sup>2</sup> / <sub>3</sub>	1 75
2 5/8	1 05	98	1 22 1/2	1 83 3/4
2 3/4	1 10	1 02 2/3	1 28 1/3	1 92 1/2
2 7/8	1 15	1 07 1/3	1 34 1/6	2 01 1/4
3	1 20	1 12	1 40	2 10
3 1/4	1 30	1 21 1/3	1 51 <sup>2</sup> / <sub>3</sub>	2 27 1/2
3 1/2	1 40	1 30 2/3	1 63 1/3	2 45
3 3/4	1 50	1 40	1 75	2 62 1/2
4	1 60	1 49 1/3	1 86 <sup>2</sup> / <sub>3</sub>	2 80
4 1/4	1 70	1 58 2/3	1 98 1/3	2 97 1/2
4 1/2	1 80	1 68	2 10	3 15
4 3/4	1 90	1 77 1/3	2 21 <sup>2</sup> / <sub>3</sub>	3 32 1/2
5	2 00	1 86 2/3	2 33 1/3	3 50
5 1/4	2 10	1 96	2 45	3 67 1/2
5 1/2	2 20	2 05 1/3	2 56 <sup>2</sup> / <sub>3</sub>	3 85
5 3/4	2 30	2 14 2/3	2 68 1/3	4 02 1/2
6	2 40	2 24	2 80	4 20
6 1/4	2 50	2 33 1/3	2 91 <sup>2</sup> / <sub>3</sub>	4 37 1/2
6 1/2	2 60	2 42 2/3	3 03 1/3	4 55
6 3/4	2 70	2 52	3 15	4 72 1/2
7	2 80	2 61 1/3	3 26 <sup>2</sup> / <sub>3</sub>	4 90
For each addit. 1/8c add	5c	4 2/3c	5 <sup>5</sup> / <sub>8</sub> c	8 3/4



## COAST GUARD STATIONS ON THE GREAT LAKES

### Lake Ontario

Big Sandy—North side mouth of Big Sandy creek.  
Oswego—East side entrance of Oswego harbor.  
Charlotte—East side entrance of Charlotte harbor.  
Niagara—East side entrance of Niagara river.

### Lake Erie

Buffalo—South side entrance of Buffalo harbor.  
Erie—North side entrance of Erie harbor.  
Ashtabula—West side of Ashtabula harbor.  
Fairport—West side entrance of Fairport harbor.  
Cleveland—West side entrance of Cleveland harbor.  
Marblehead—Point Marblehead, near quarry docks.  
Lorain—

### Lake Huron

Lake View Beach—Five miles north of Ft. Gratiot light.  
Harbor Beach—Inside Harbor Beach harbor.  
Point aux Barques—Near lighthouse.  
Port Austin—About two miles northeast of Port Austin and about two miles southeast of Port Austin reef light.  
Tawas—Near lighthouse.  
Sturgeon Point—Near lighthouse.  
Thunder Bay Island—West side of island.  
Middle Island—North end of the island.  
Hammond—Hammond's bay.  
Bois Blanc—About midway east side of island.

### Lake Superior

Vermilion—Ten miles west of Whitefish Point.  
Crisps—Eighteen miles west of Whitefish Point.  
Two Heart River—Near mouth of Two Heart river.  
Deer Park—Near mouth of Sucker river.  
Grand Marais, Mich.—West of harbor entrance.  
Marquette—Near lighthouse.  
Portage—Old Portage Lake ship canal, three-fourth miles from north end, on east bank.  
Duluth—On Minnesota point, upper Duluth.

### Lake Michigan

Beaver Island—Near lighthouse.  
Charlevoix—South side of harbor entrance.  
North Manitou Island—Near Pickards wharf.  
South Manitou Island—Near lighthouse.  
Sleeping Bear Point—Near Glen Haven.  
Point Betsie—Near lighthouse.  
Frankfort—South side entrance of harbor.  
Manistee—North side entrance of harbor.  
Grande Pointe au Sable—One mile south of light.  
Ludington—North side entrance of harbor.  
Fentwater—North side entrance of harbor.  
White River—North side entrance of White Lake.  
Muskegon—South side entrance of harbor, Port Sherman.  
Grand Haven—North side entrance of harbor.  
Holland—In the harbor, south side.  
South Haven—North side entrance of harbor.  
Saint Joseph—In the harbor, north side.  
Michigan City—East side entrance of harbor.  
South Chicago—North side entrance of Calumet harbor.  
Jackson Park—About seven miles S. by E. of Chicago river light.  
Old Chicago—In the harbor.  
Evanston—On the Northwestern University grounds.  
Kenosha—In the harbor, on Washington Island.  
Racine—In the harbor, adjoining light.  
Milwaukee—Near entrance of harbor, south side.  
Sheboygan—Entrance to harbor, north side.  
Two Rivers—North side entrance of harbor.  
Kewaunee—North side entrance of harbor.  
Sturgeon Bay Canal—Eastern entrance of canal, north side.  
Bailey's Harbor—On easterly side of harbor.  
Plum Island—Near northeast point of island, two miles north-west of Pilot Island light.

## SAILING DISTANCES

<b>BUFFALO TO—</b>	<b>Distances</b>
Cleveland . . . . .	175 miles
Toledo . . . . .	255 miles
Detroit . . . . .	258 miles
Port Huron . . . . .	320 miles
Sault Ste. Marie . . . . .	590 miles
Marquette . . . . .	745 miles
Ashland . . . . .	935 miles
Two Harbors . . . . .	960 miles
Duluth . . . . .	980 miles
Fort William . . . . .	860 miles
Escanaba . . . . .	690 miles
Green Bay . . . . .	760 miles
Milwaukee . . . . .	820 miles
Chicago . . . . .	885 miles
Collingwood . . . . .	580 miles
Owen Sound . . . . .	560 miles

<b>CLEVELAND TO—</b>	
Buffalo . . . . .	175 miles
Detroit . . . . .	105 miles
Port Huron . . . . .	165 miles
Sault Ste. Marie . . . . .	440 miles
Marquette . . . . .	600 miles
Ashland . . . . .	785 miles
Two Harbors . . . . .	810 miles
Duluth . . . . .	830 miles
Fort William . . . . .	710 miles
Escanaba . . . . .	540 miles
Green Bay . . . . .	610 miles
Milwaukee . . . . .	665 miles
Chicago . . . . .	730 miles
Collingwood . . . . .	430 miles
Owen Sound . . . . .	410 miles

<b>THE SOO TO—</b>	
Marquette . . . . .	160 miles
Hancock and Houghton . . . . .	225 miles
Fort William . . . . .	270 miles
Duluth . . . . .	395 miles

Michipicoten . . . . .	120 miles
Ashland . . . . .	340 miles
Port Huron . . . . .	270 miles
Detroit . . . . .	330 miles
Cleveland . . . . .	440 miles
Buffalo . . . . .	590 miles
Escanaba . . . . .	220 miles
Mackinac . . . . .	90 miles
Green Bay . . . . .	290 miles
Milwaukee . . . . .	345 miles
Chicago . . . . .	415 miles

### A FEW HANDY DISTANCES—

Buffalo to Bar Point . . . . .	234 miles
Bar Point to Ft. Gratiot (through rivers) . . . . .	87 miles
Fort Gratiot to Detour . . . . .	220 miles
Fort Gratiot to Mackinac . . . . .	242 miles
Detour to Whitefish Point . . . . .	90 miles
Whitefish Point to Duluth . . . . .	352 miles
Mackinac to Chicago . . . . .	320 miles

### RIVER DISTANCES

#### St. Clair River

#### BAR POINT TO—

Fort Gratiot . . . . .	87 miles
Bois Blanc . . . . .	6 miles
Detroit (Woodward Avenue) . . . . .	24 miles
St. Clair Flats Ship Canal (Lower Light) . . . . .	47 miles

#### BOIS BLANC TO—

Detroit . . . . .	18 miles
Fort Gratiot . . . . .	81 miles
Lime Kilns to Detroit . . . . .	16 miles
Grassy Island to Detroit . . . . .	8½ miles

#### DETROIT TO—

Grosse Point Light Vessel . . . . .	14 miles
St. Clair Flats Ship Canal (Lower Light) . . . . .	23 miles
Port Huron . . . . .	61 miles
Windmill Point to Grosse Point Light Ship . . . . .	7¼ miles
Grosse Point Light Ship to St. Clair Flats Canal (Lower) . . . . .	9½ miles

**SAILING DISTANCES—Continued**

**CANAL (UPPER LIGHT) TO—**

Marine City .....	18 miles
St. Clair .....	25½ miles
Port Huron .....	37 miles
Fort Gratiot .....	39 miles

**PORT HURON TO—**

St. Clair .....	11 miles
Marine City .....	18½ miles
Algonac . . . . .	26 miles
St. Clair Flats Canal (Upper Light) .....	37 miles
Detroit . . . . .	61 miles
Bar Point .....	85 miles

**Soo River**

**DETOUR TO—**

Soo Canal .....	50 miles
Sailors Encampment .....	27 miles
Point Iroquois .....	64 miles
Whitefish Point .....	90 miles

**SOO CANAL TO—**

Point Iroquois .....	14 miles
Whitefish Point .....	40 miles
Sailors Encampment .....	22 miles
Detour . . . . .	50 miles
Six Mile Point .....	6 miles
Nine Mile Point .....	9 miles

**THROUGH THE PORTAGE—**

From Portage Entry to Portage Canal .....	25 miles
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**LAKE SUPERIOR**

Whitefish Point to Duluth around Keweenaw Point ....	352 miles
Whitefish Point to Duluth through the Portage .....	355 miles
Whitefish Point to Duluth following north shore .....	425 miles
Whitefish Point to Duluth following south shore and through Portage .....	390 miles

**LAKE HURON**

Fort Gratiot to Thunder Bay, regular course .....	146 miles
Fort Gratiot to Thunder Bay, following west shore.....	154 miles

**LAKE MICHIGAN**

Mackinac Point to Milwaukee, by Point Betsey .....	257 miles
Mackinac Point to Milwaukee, by "north about" .....	280 miles
Mackinac Point to Chicago, by Point Betsey .....	323 miles
Mackinac Point to Chicago, by "north about" .....	350 miles
Mackinac Point to Chicago, following north and west shore . . . . .	360 miles

**LAKE ERIE**

Bar Point to Buffalo, regular course .....	234 miles
Bar Point to Buffalo, following north shore .....	255 miles
Bar Point to Buffalo, following south shore .....	265 miles

## SAILING DISTANCES ON LAKE HURON, ETC., FROM FORT GRATIOT TO OLD FORT MACKINAC

	Port Sanilac	Sand Beach	Pt. aux Barques	Saginaw River	Tawas	Au Sable	Alpena	Thunder Bay Id.	Cheybogan Light	Goderich	Kincardine	Southampton	Cove Island Lt.	Owen Sound	Collingwood	Detour Light	Sault Ste. Marie	Old Ft. Mackinac
Fort Gratiot .....	30	60	75	144	117	114	154	147	230	63	91	119	167	246	264	221	281	246
Port Sanilac .....	.....	30	45	117	87	83	124	117	200	47	68	96	140	219	236	191	251	216
Sand Beach .....	.....	.....	15	87	57	53	94	88	170	47	54	78	114	193	211	161	221	186
Point aux Barques .....	.....	.....	.....	72	42	39	79	73	155	55	55	75	104	183	201	146	206	172
Saginaw River .....	.....	.....	.....	.....	46	60	109	104	188	127	125	142	158	237	255	178	238	203
Tawas .....	.....	.....	.....	.....	.....	18	57	64	146	97	93	108	117	196	214	138	198	163
Au Sable .....	.....	.....	.....	.....	.....	.....	48	45	127	93	85	96	101	180	198	119	179	144
Alpena .....	.....	.....	.....	.....	.....	.....	.....	15	97	125	107	107	87	166	184	89	149	114
Thunder Bay Island .....	.....	.....	.....	.....	.....	.....	.....	.....	82	115	96	94	72	151	169	74	134	99
Cheybogan Light .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	196	176	171	132	211	229	31	91	17
Goderich .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	34	62	114	193	211	187	247	213
Kincardine .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29	84	163	181	166	226	193
Southampton .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	64	143	161	158	218	188
Cove Island Light .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	79	97	116	176	149
Owen Sound .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	49	195	255	228
Collingwood .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	213	273	246
Detour Light .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	60	42
Sault Ste. Marie .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	103
Old Fort Mackinac .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0

## SAILING DISTANCES ON THE ST. LAWRENCE RIVER, LAKE ONTARIO AND WELLAND CANAL

	Ogdensburg	Cape Vincent	Kingston	Oswego	Fair Haven	Big Sodus	Charlotte	Oak Orchard	Thirty-mile Point	Olcott	Niagara	Port Dalhousie	Presque Isle	Port Hope	Whitby	Toronto	Oakville	Hamilton	Port Colborne	
Montreal . . . . .	136	196	201	245	254	264	283	303	316	329	349	359	271	299	330	359	370	383	387	
Ogdensburg . . . . .	.....	60	65	109	118	128	147	167	180	193	213	223	135	163	194	223	234	247	251	
Cape Vincent . . . . .	.....	.....	24	48	58	68	87	107	120	133	153	163	75	103	134	163	174	187	191	
Kingston . . . . .	.....	.....	.....	55	64	71	88	108	121	134	154	164	76	104	135	164	175	188	192	
Oswego . . . . .	.....	.....	.....	.....	14	27	57	85	99	112	135	145	68	93	123	148	158	170	173	
Fairhaven . . . . .	.....	.....	.....	.....	.....	15	47	75	90	103	125	135	65	88	116	138	149	160	163	
Big Sodus . . . . .	.....	.....	.....	.....	.....	.....	33	63	77	92	112	123	60	78	105	126	136	149	151	
Charlotte . . . . .	.....	.....	.....	.....	.....	.....	.....	35	48	62	82	92	49	57	78	98	107	119	120	
Oak Orchard . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	15	29	50	61	49	39	48	65	75	86	89	
Thirty-Mile Point . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	13	34	44	58	40	38	50	59	70	72	
Olcott . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20	32	68	46	35	40	47	59	60	
Niagara . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16	87	62	40	31	33	42	44	
Port Dalhousie . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	98	71	46	30	25	31	28	
Presque Isle . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33	65	95	108	121	126	
Port Hope . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	35	65	78	92	99	
Whitby . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32	46	61	74	
Toronto . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	18	33	58	
Oakville . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16	53	
Hamilton . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	59
Port Colborne . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0

## SAILING DISTANCES ON LAKE MICHIGAN AND GREEN BAY

	Waugoshance	Escanaba	Green Bay	Grand Traverse	Frankfort	Manistee	Ludington	White Lake	Muskegon	Grand Haven	St. Joseph	Michigan City	Sturgeon Bay Ship Canal	Manitowoc	Sheboygan	Port Washington	Milwaukee	Racine	Kenosha	Waukegan	Chicago
Old Fort Mackinac .....	18	128	198	95	121	147	171	211	222	235	299	326	148	194	214	237	258	270	280	295	323
Waugoshance .....	...	109	179	77	103	129	153	193	204	217	279	308	130	176	196	219	240	252	262	277	305
Escanaba .....	...	...	102	120	91	112	130	171	182	195	255	287	76	126	149	175	201	218	229	245	274
Green Bay .....	...	...	...	171	*105	*113	*123	*160	*171	*183	*242	*265	*51	*106	*129	*155	*180	*197	*208	*226	*256
Grand Traverse .....	...	...	...	...	92	118	142	182	193	206	270	299	127	166	184	207	230	243	253	268	295
Frankfort .....	...	...	...	...	...	27	51	92	104	117	180	208	54	80	96	119	140	154	164	179	204
Manistee .....	...	...	...	...	...	...	24	67	77	90	154	182	61	66	77	97	116	128	138	153	173
Ludington .....	...	...	...	...	...	...	...	43	54	67	130	158	73	60	64	81	97	108	118	132	157
White Lake .....	...	...	...	...	...	...	...	...	11	24	88	118	109	79	69	73	78	82	89	101	120
Muskegon .....	...	...	...	...	...	...	...	...	...	13	79	109	120	89	77	78	80	81	87	97	114
Grand Haven .....	...	...	...	...	...	...	...	...	...	...	67	99	132	100	87	84	83	81	86	94	108
St. Joseph .....	...	...	...	...	...	...	...	...	...	...	...	35	192	151	130	113	96	79	75	70	60
Michigan City .....	...	...	...	...	...	...	...	...	...	...	...	...	215	170	147	126	104	83	76	64	38
Sturgeon Bay Ship Canal .....	...	...	...	...	...	...	...	...	...	...	...	...	...	55	77	104	129	147	157	173	206
Manitowoc .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25	52	76	96	106	122	155
Sheboygan .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	28	52	71	82	98	131
Port Washington .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26	46	57	73	106
Milwaukee .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23	34	50	83
Racine .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10	27	60
Kenosha .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17	50
Waukegan .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	36
Chicago .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0

\*Via Sturgeon Bay Ship Canal.

## SAILING DISTANCES ON LAKE ERIE, ETC., FROM BUFFALO TO FORT GRATIOT

	Port Colborne	Dunkirk	Long Point	Erie	Ashtabula	Port Stanley	Fairport	Rondeau	Cleveland	Lorain	Pelee Spit	Sandusky	Bar Point	Monroe	Toledo	Detroit	Ft. Gratiot Light
Buffalo . . . . .	20	35	64	80	117	124	145	162	173	194	198	220	232	240	255	256	321
Port Colborne . . . . .		26	48	66	103	108	129	146	157	178	182	204	215	224	239	240	305
Dunkirk . . . . .			36	45	84	96	111	133	140	162	168	188	202	210	225	226	291
Long Point . . . . .				27	57	60	82	98	110	131	134	155	168	176	191	192	257
Erie . . . . .					43	71	73	99	101	124	132	150	165	174	187	187	252
Ashtabula . . . . .						55	26	63	56	78	88	105	121	130	145	146	211
Port Stanley . . . . .							61	45	83	94	85	112	118	127	142	143	208
Fairport . . . . .								47	30	51	63	78	97	105	120	121	186
Rondeau . . . . .									52	55	40	67	74	82	97	98	163
Cleveland . . . . .										25	47	53	81	89	102	105	170
Lorain . . . . .											30	29	63	72	78	88	153
Pelee Spit . . . . .												28	33½	42	57	58	123
Sandusky . . . . .													47	46	57	69	134
Bar Point . . . . .														13	32	24	89
Monroe . . . . .															21	36	101
Toledo . . . . .																56	121
Detroit . . . . .																	65
Fort Gratiot Light . . . . .																	0

## SAILING DISTANCES ON LAKE SUPERIOR

	White Fish Point	Gd. Marais, Mich.	Marquette	L'Anse	Portage Entry	Copper Harbor	Eagle Harbor	Portage Lake Ship Canal	Ontonagon	Bayfield	Ashland	Port Arthur	Gd. Marais, Minn.	Two Harbors	Duluth
Sault Ste. Marie .....	41	90	158	216	207	187	202	231	271	336	347	272	305	371	394
White Fish Point .....	....	49	117	175	166	146	161	190	231	295	306	231	264	330	353
Grand Marais, Mich. ....	....	....	68	129	120	106	121	149	191	256	267	199	224	289	313
Marquette .....	....	....	....	76	67	75	90	* 90	*132	*200	*211	172	*178	*236	*259
L'Anse .....	....	....	....	....	15	71	86	* 38	* 81	*148	*160	*148	*126	*185	*207
Portage Entry .....	....	....	....	....	....	60	75	* 23	* 66	*133	*144	*130	*111	*169	192
Copper Harbor .....	....	....	....	....	....	....	15	44	85	149	161	100	117	184	207
Eagle Harbor .....	....	....	....	....	....	....	....	28	70	134	145	97	103	169	192
Portage Lake Ship Canal .....	....	....	....	....	....	....	....	....	43	110	121	108	87	146	169
Ontonagon .....	....	....	....	....	....	....	....	....	....	74	83	121	76	115	137
Bayfield .....	....	....	....	....	....	....	....	....	....	....	16	154	75	56	78
Ashland .....	....	....	....	....	....	....	....	....	....	....	....	169	89	72	94
Port Arthur .....	....	....	....	....	....	....	....	....	....	....	....	....	94	173	197
Grand Marais, Minn. ....	....	....	....	....	....	....	....	....	....	....	....	....	....	81	106
Two Harbors .....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	26
Duluth .....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	0

\*Via Portage Lake.



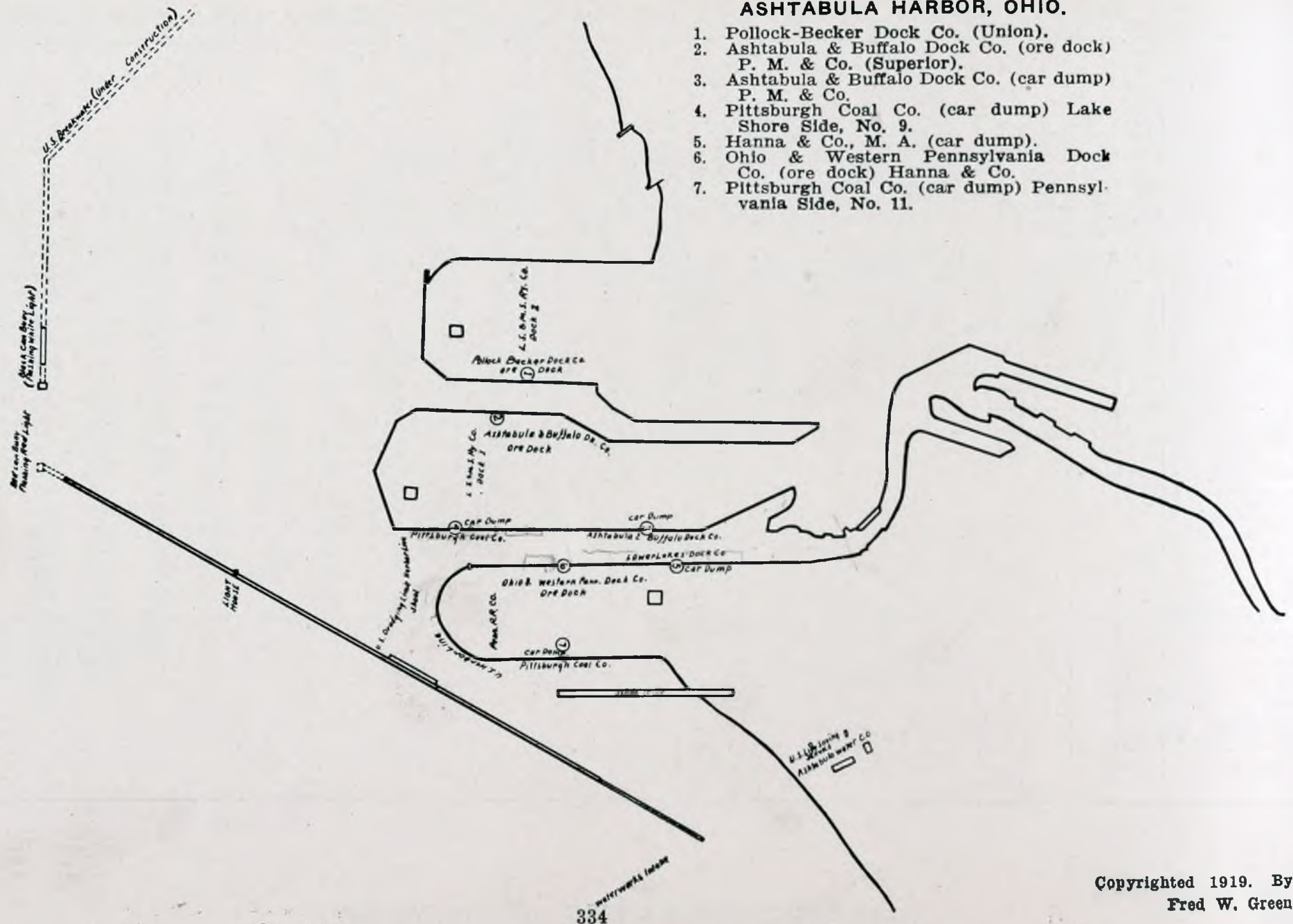
SAILING DISTANCES FROM BUFFALO TO POINTS ON LAKE ERIE AND THE UPPER LAKES

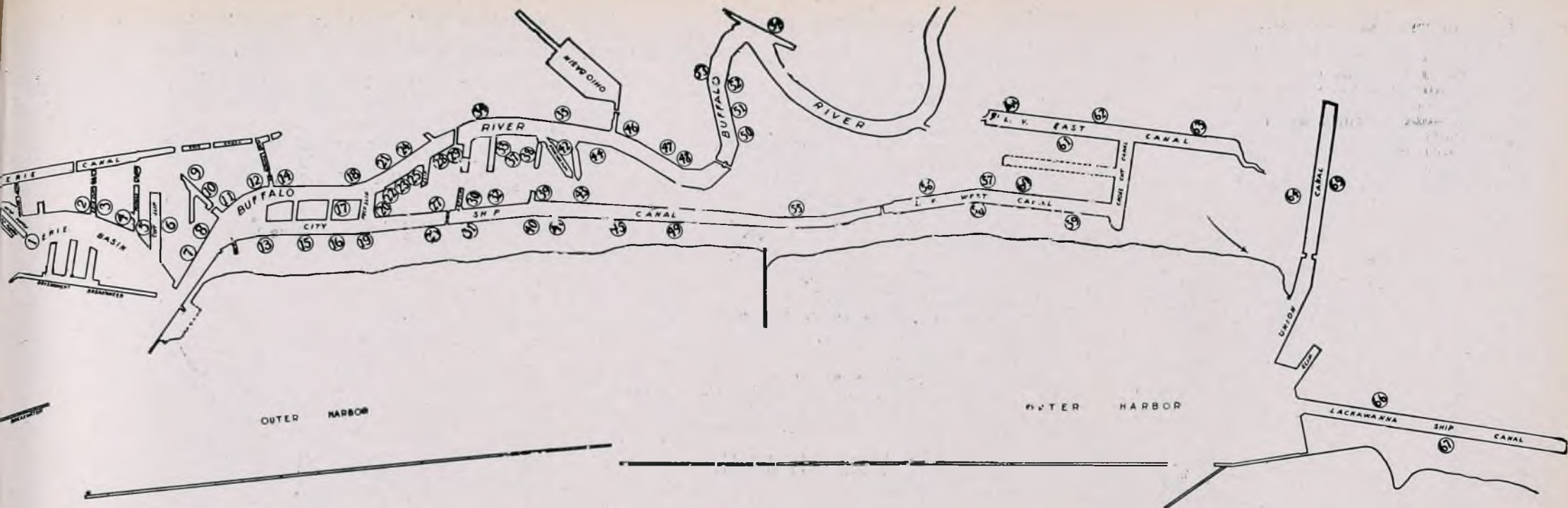
	Port Colborne	Erie	Ashtabula	Cleveland	Lorain	Sandusky	Toledo	Detroit	Fort Gratiot	Saginaw River	Cheboygan	Old Ft. Mackinac	Escanaba	Milwaukee	Chicago	Michigan City	Sault Ste. Marie	Marquette	L'Anse	Houghton	Ashland	Two Harbors	Duluth	Port Arthur
Buffalo . . . . .	20	80	117	173	194	220	255	256	321	463	551	567	695	825	890	893	602	760	818	820	949	973	996	874
Port Colborne . . . . .	...	66	103	157	178	204	239	240	305	452	535	551	679	809	874	877	586	744	802	806	933	957	980	858
Erie . . . . .	...	...	43	101	124	150	187	187	252	399	482	498	626	756	821	824	533	691	749	753	880	904	927	805
Ashtabula . . . . .	...	...	...	56	78	105	145	146	211	358	441	457	585	715	780	783	492	650	708	712	839	863	886	762
Cleveland . . . . .	...	...	...	...	25	53	102	105	170	312	400	416	544	674	739	742	451	609	667	670	798	822	845	723
Lorain . . . . .	...	...	...	...	...	29	78	88	153	300	383	399	527	657	822	725	434	592	650	654	781	805	828	706
Sandusky . . . . .	...	...	...	...	...	...	57	69	134	281	364	380	508	638	703	706	415	573	631	635	762	786	809	687
Toledo . . . . .	...	...	...	...	...	...	...	56	121	268	351	367	495	625	690	693	402	560	618	622	749	773	796	674
Detroit . . . . .	...	...	...	...	...	...	...	...	65	212	295	311	439	569	634	637	346	504	562	566	693	717	740	618
Fort Gratiot . . . . .	...	...	...	...	...	...	...	...	...	147	230	246	374	504	569	572	281	439	497	501	628	652	675	553
Saginaw River . . . . .	...	...	...	...	...	...	...	...	...	...	188	203	331	465	526	529	238	396	454	458	585	609	632	510
Cheboygan . . . . .	...	...	...	...	...	...	...	...	...	...	...	17	145	275	340	345	91	249	307	311	438	462	485	363
Old Ft. Mackinac . . . . .	...	...	...	...	...	...	...	...	...	...	...	...	128	258	323	326	103	261	319	323	450	474	497	375
Escanaba . . . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	201	274	287	231	389	247	451	578	602	625	503
Milwaukee . . . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	83	104	361	519	577	581	708	732	755	633
Chicago . . . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	38	426	584	642	646	773	797	820	698
Michigan City . . . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	429	587	645	649	776	800	823	701
Sault Ste. Marie . . . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	158	216	220	347	371	394	272
Marquette . . . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	76	* 80	*211	*236	*259	172
L'Anse . . . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	* 28	*160	*185	*207	*148
Houghton . . . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*130	*155	*178	*117
Ashland . . . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	72	94	169
Two Harbors . . . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26	173
Duluth . . . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	197
Port Arthur . . . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0

\*Via Portage Lake.

## ASHTABULA HARBOR, OHIO.

1. Pollock-Becker Dock Co. (Union).
2. Ashtabula & Buffalo Dock Co. (ore dock) P. M. & Co. (Superior).
3. Ashtabula & Buffalo Dock Co. (car dump) P. M. & Co.
4. Pittsburgh Coal Co. (car dump) Lake Shore Side, No. 9.
5. Hanna & Co., M. A. (car dump).
6. Ohio & Western Pennsylvania Dock Co. (ore dock) Hanna & Co.
7. Pittsburgh Coal Co. (car dump) Pennsylvania Side, No. 11.





### BUFFALO, N. Y.

- |  |  |   |
|--|--|---|
| <ul style="list-style-type: none"> <li>23. American Linseed Co.</li> <li>51. American Malting Co. (Above Ohio St.)</li> <li>45. Ashtabula &amp; Buffalo Dock Co.</li> <li>11. Anchor Line.</li> <li>42. Buffalo Dry Dock Co.</li> <li>30. Buffalo Fuel Co.</li> <li>54. Buffalo Union Furnace Co.</li> <li>6. Buffalo Warehouse &amp; Distributing Co.</li> <li>32. Buffalo, Rochester &amp; Pittsburgh Ore Dock.</li> <li>24. Cleveland &amp; Buffalo Transit Co.</li> <li>28. Cleveland &amp; Buffalo Transit Co.</li> <li>16. Connecting Terminal Elevator (Ship Canal).</li> <li>20. Dakota Elevator (Blackwell Canal).</li> <li>14. Delaware, Lackawanna &amp; Western Ry. Co. (Freight Shed).</li> <li>18. Detroit &amp; Buffalo Transit Co.</li> <li>50. Electric Grain Elevator (Above Ohio St.).</li> <li>49. Erie Coal Dock.</li> <li>48. Erie Elevator (Ohio &amp; Louisiana St.).</li> <li>44. Erie Railroad Co. (Freight Sheds).</li> <li>46. Erie Railroad Co. (Freight Sheds).</li> <li>47. Erie Railroad Co. (Freight Sheds).</li> <li>19. Erie &amp; Western Transit Co. (Freight Sheds).</li> <li>15. Erie &amp; Western Transit Co. (Freight Sheds).</li> <li>10. Evans Elevator (Evans Slip).</li> </ul> | <ul style="list-style-type: none"> <li>4. Exchange Elevator (Erie Basin).</li> <li>55. Export Elevator (Ship Canal).</li> <li>22. Great Eastern Elevator.</li> <li>21. Hand &amp; Johnson Tug Line.</li> <li>57. Hauenstein, A. G.</li> <li>26. Hedstrom, E. L.</li> <li>56. Hurd Brothers.</li> <li>60. Hurd Brothers.</li> <li>29. Kellogg Elevator.</li> <li>31. Keystone Warehouse Co.</li> <li>40. Keystone Warehouse Co.</li> <li>38. Knowlton Warehouse Co.</li> <li>7. Lackawanna Coal Trestle.</li> <li>66. Lackawanna Steel Co.</li> <li>67. Lackawanna Rail Dock.</li> <li>68. Lehigh Valley Rail Dock.</li> <li>61. Lehigh Valley Coal Trestle.</li> <li>62. Lehigh Valley Ore Dock.</li> <li>58. Lehigh Valley Freight Sheds.</li> <li>59. Lehigh Valley Freight Sheds.</li> <li>3. Leslie, D. V.</li> <li>25. Marine Elevator (Hatch Slip).</li> <li>2. McNeil Lumber Co.</li> <li>9. Monarch Elevator (Evans Slip).</li> <li>39. Mutual Elevator (Ship Canal).</li> <li>43. Mutual Transit Co. (Freight Sheds).</li> <li>5. New York Central &amp; H. B. Ry. Co (Freight Sheds).</li> </ul> | <ul style="list-style-type: none"> <li>33. New York Central &amp; H. B. Ry. Co (Freight Sheds).</li> <li>34. New York Central &amp; H. B. Ry. Co. (Freight Sheds).</li> <li>35. New York Central &amp; H. B. Ry. Co (Freight Sheds).</li> <li>12. Pacific Despatch (Freight Shed).</li> <li>64. Pennsylvania Ore Dock.</li> <li>1. Philadelphia &amp; Reading Coal Dock</li> <li>41. Pickands-Mather &amp; Co.</li> <li>63. Pillsbury-Washburn Co.</li> <li>52. Perots Sons Malting Co.</li> <li>32. Punxsutawney Iron Co.</li> <li>65. Rogers-Brown Co.</li> <li>52. Salmon &amp; Co., Hamilton H.</li> <li>17. Seaboard Elevator (Opposite Main St.)</li> <li>65. Susquehanna Iron Co.</li> <li>16. Terminal Elevator (Ship Canal).</li> <li>8. Union Elevator.</li> <li>31. Union Dock &amp; Warehouse.</li> <li>40. Union Dock &amp; Warehouse.</li> <li>27. Washburn-Crosby Co. (Ship Canal).</li> <li>45. West Shore Ore Dock.</li> <li>33. Western Transit Co. (Freight Shed).</li> <li>37. Wheeler Elevator.</li> <li>13. Williams &amp; Co., Frank.</li> </ul> |
|--|--|---|

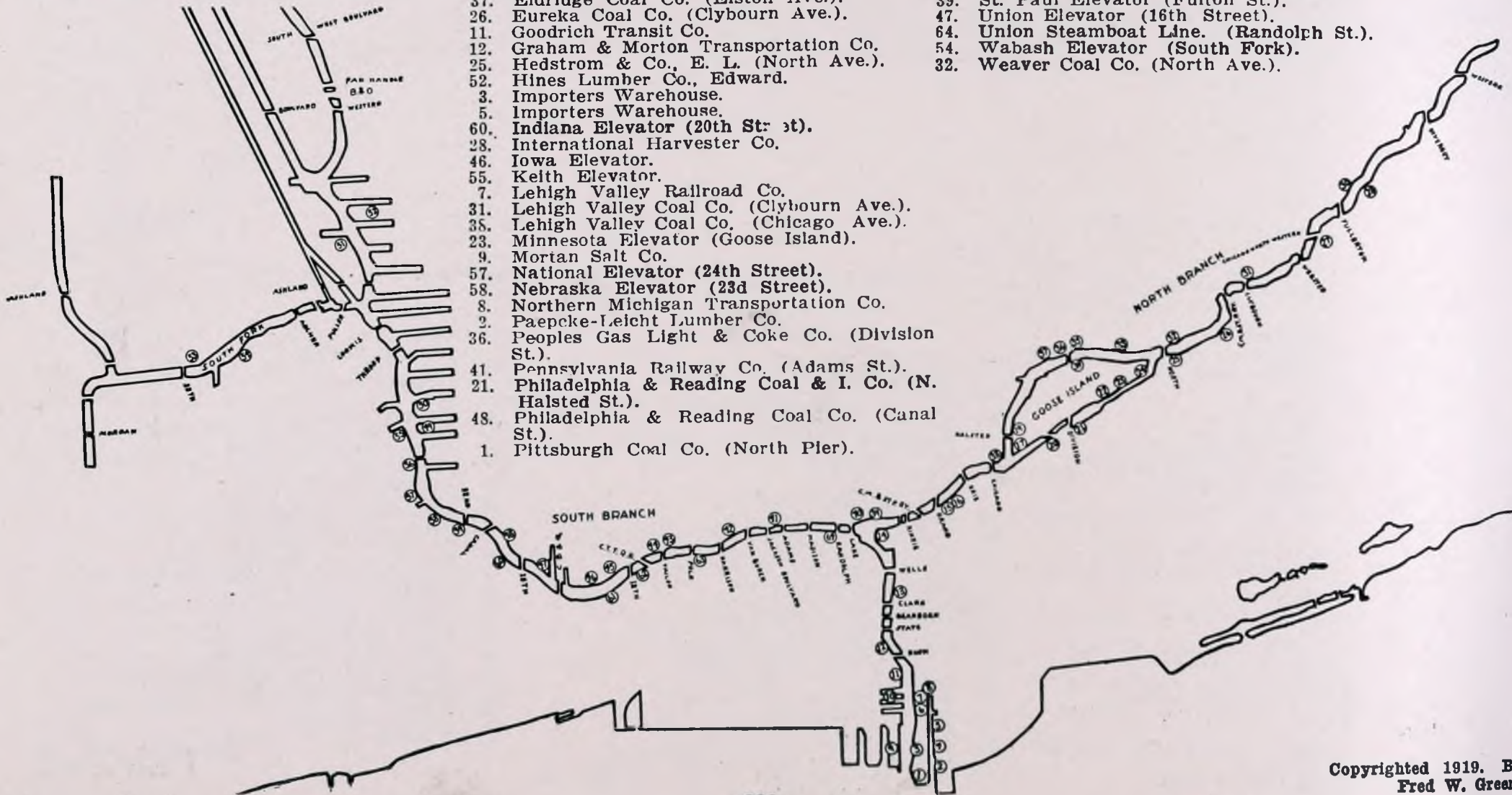
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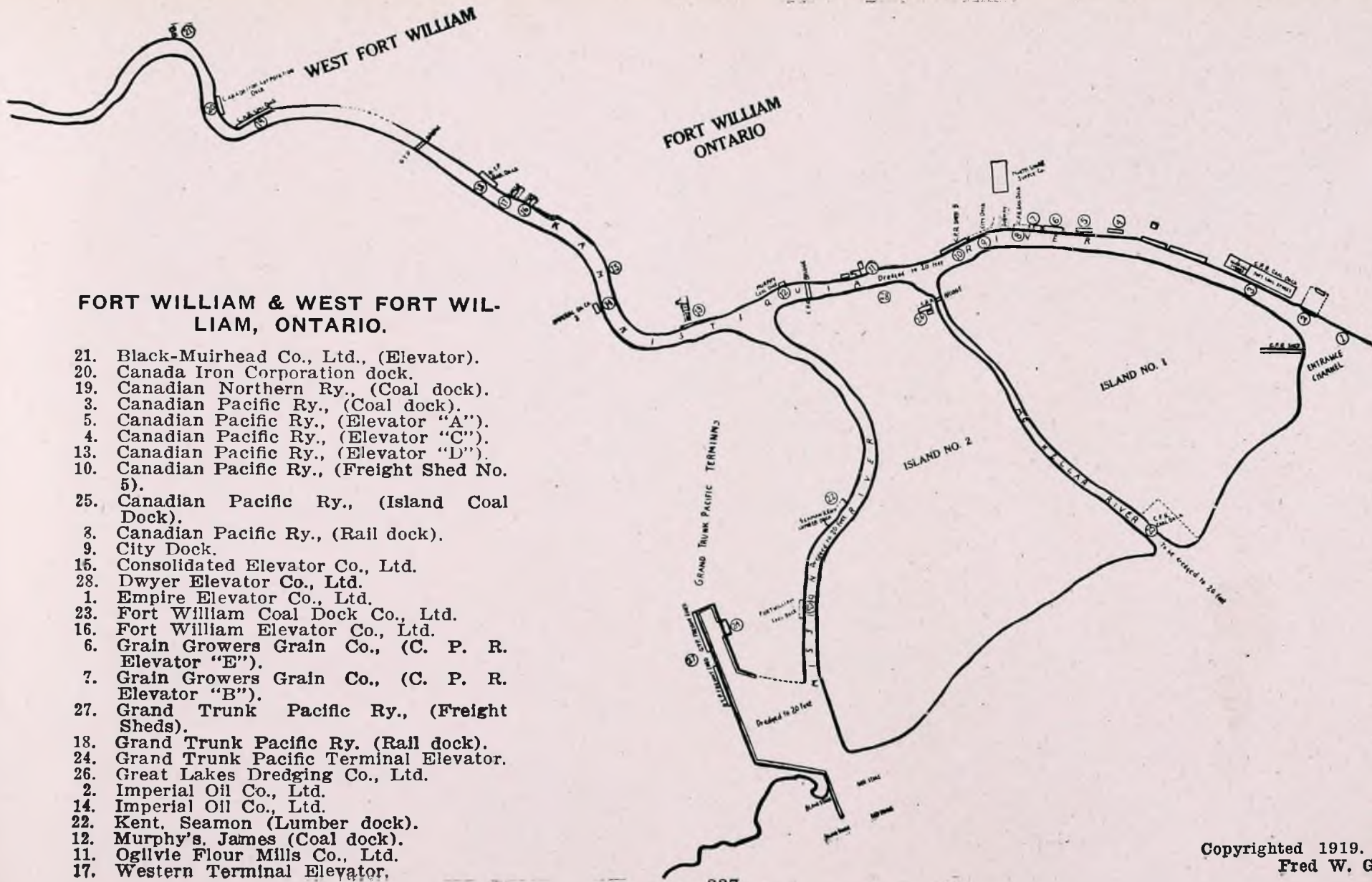
- 59. Alton Elevator (22d Street).
- 13. Anchor Line (La Salle Street).
- 22. Armour Elevators "A" & "B" (Goose Isl.).
- 49. Armour Elevator "C."
- 50. Armour Elevator "D."
- 24. Atlantic Elevator (Goose Island).
- 62. Baltimore & Ohio Ry. Co.
- 6. Canada Atlantic Transit Co.
- 10. Central Elevators "A" & "B."
- 17. Chicago Ship Building Co.
- 40. Chicago, Minneapolis & St. Paul Ry.

**CHICAGO, ILL.**

- 42. Chicago & Alton Ry. Co. (Harrison St.).
- 43. Chicago Dock Co.
- 44. Chicago Sugar Refining Co.
- 63. Chicago & North Western Ry.
- 45. City Elevator (12th Street).
- 14. Consumers Co.
- 19. Consumers Co. (Halsted Street).
- 27. Consumers Co. (Chester Street).
- 33. Dreiske & Hinners (Elston Ave.).
- 37. Eldridge Coal Co. (Elston Ave.).
- 26. Eureka Coal Co. (Clybourn Ave.).
- 11. Goodrich Transit Co.
- 12. Graham & Morton Transportation Co.
- 25. Hedstrom & Co., E. L. (North Ave.).
- 52. Hines Lumber Co., Edward.
- 3. Importers Warehouse.
- 5. Importers Warehouse.
- 60. Indiana Elevator (20th Street).
- 28. International Harvester Co.
- 46. Iowa Elevator.
- 55. Keith Elevator.
- 7. Lehigh Valley Railroad Co.
- 31. Lehigh Valley Coal Co. (Clybourn Ave.).
- 35. Lehigh Valley Coal Co. (Chicago Ave.).
- 23. Minnesota Elevator (Goose Island).
- 9. Mortan Salt Co.
- 57. National Elevator (24th Street).
- 58. Nebraska Elevator (23d Street).
- 8. Northern Michigan Transportation Co.
- 2. Paepcke-Leicht Lumber Co.
- 36. Peoples Gas Light & Coke Co. (Division St.).
- 41. Pennsylvania Railway Co. (Adams St.).
- 21. Philadelphia & Reading Coal & I. Co. (N. Halsted St.).
- 48. Philadelphia & Reading Coal Co. (Canal St.).
- 1. Pittsburgh Coal Co. (North Pier).

- 16. Richardson Coal Co., O. S. (Ontario St.).
- 35. Richardson Coal Co., O. S. (Elston Ave.).
- 56. Richardson Coal Co., O. S. (24th & Halsted).
- 20. Richardson Coal Co., O. S. (Division St.).
- 61. Rock Island Elevator (12th Street).
- 15. Rutland Transit Co.
- 51. Santa Fe Elevator.
- 34. Schenck, S. C. (D. L. & W. Goose Island).
- 53. Schenck, S. C. (D. L. & W. 35th Street).
- 30. Street-Chatfield Co. (Fullerton St.).
- 39. St. Paul Elevator (Fulton St.).
- 47. Union Elevator (16th Street).
- 64. Union Steamboat Line. (Randolph St.).
- 54. Wabash Elevator (South Fork).
- 32. Weaver Coal Co. (North Ave.).

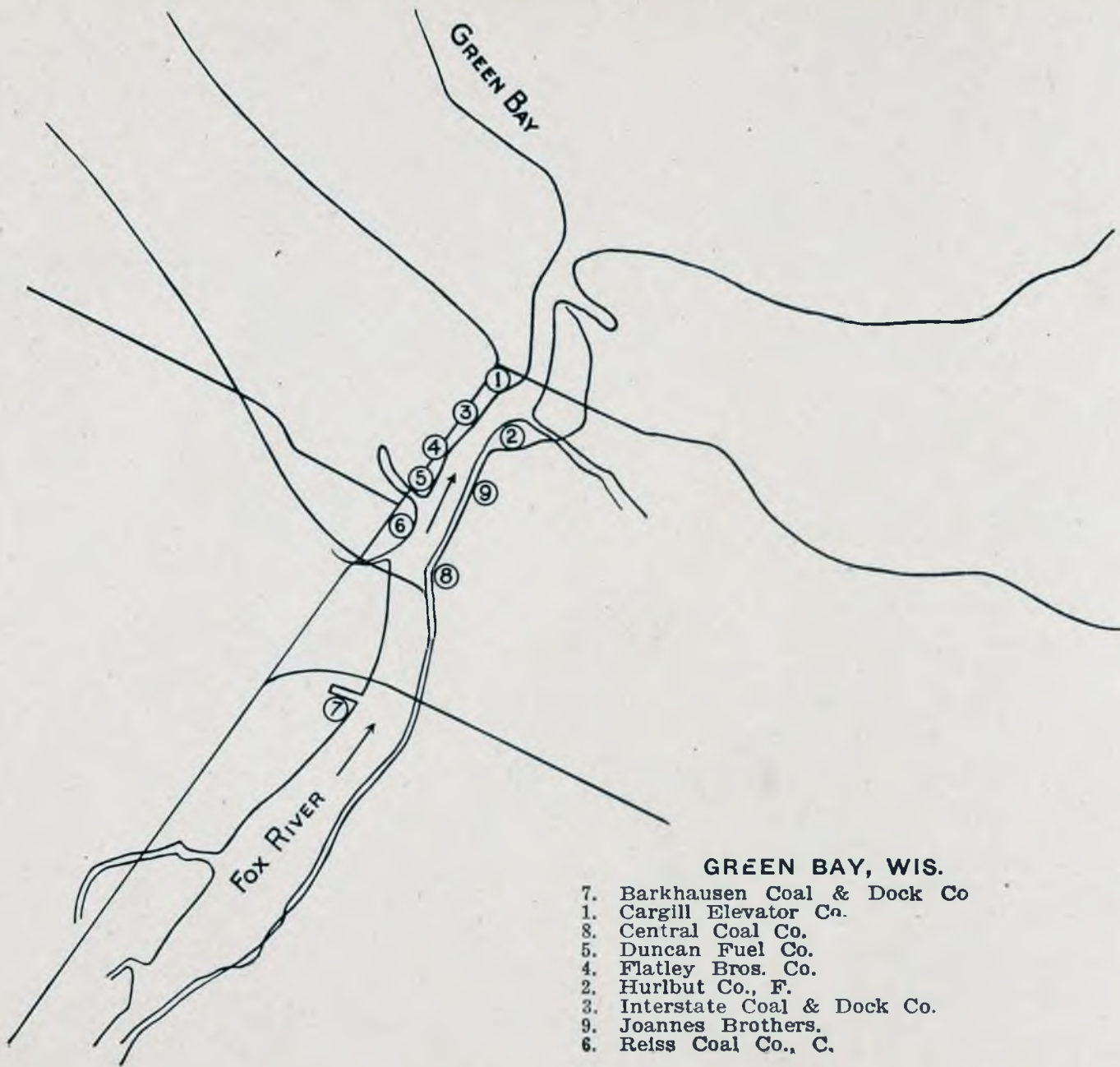




**FORT WILLIAM & WEST FORT WILLIAM, ONTARIO.**

- 21. Black-Muirhead Co., Ltd., (Elevator).
- 20. Canada Iron Corporation dock.
- 19. Canadian Northern Ry., (Coal dock).
- 3. Canadian Pacific Ry., (Coal dock).
- 5. Canadian Pacific Ry., (Elevator "A").
- 4. Canadian Pacific Ry., (Elevator "C").
- 13. Canadian Pacific Ry., (Elevator "D").
- 10. Canadian Pacific Ry., (Freight Shed No. 5).
- 25. Canadian Pacific Ry., (Island Coal Dock).
- 3. Canadian Pacific Ry., (Rail dock).
- 9. City Dock.
- 15. Consolidated Elevator Co., Ltd.
- 28. Dwyer Elevator Co., Ltd.
- 1. Empire Elevator Co., Ltd.
- 23. Fort William Coal Dock Co., Ltd.
- 16. Fort William Elevator Co., Ltd.
- 6. Grain Growers Grain Co., (C. P. R. Elevator "E").
- 7. Grain Growers Grain Co., (C. P. R. Elevator "B").
- 27. Grand Trunk Pacific Ry., (Freight Sheds).
- 18. Grand Trunk Pacific Ry. (Rail dock).
- 24. Grand Trunk Pacific Terminal Elevator.
- 26. Great Lakes Dredging Co., Ltd.
- 2. Imperial Oil Co., Ltd.
- 14. Imperial Oil Co., Ltd.
- 22. Kent, Seamon (Lumber dock).
- 12. Murphy's, James (Coal dock).
- 11. Oglvie Flour Mills Co., Ltd.
- 17. Western Terminal Elevator.

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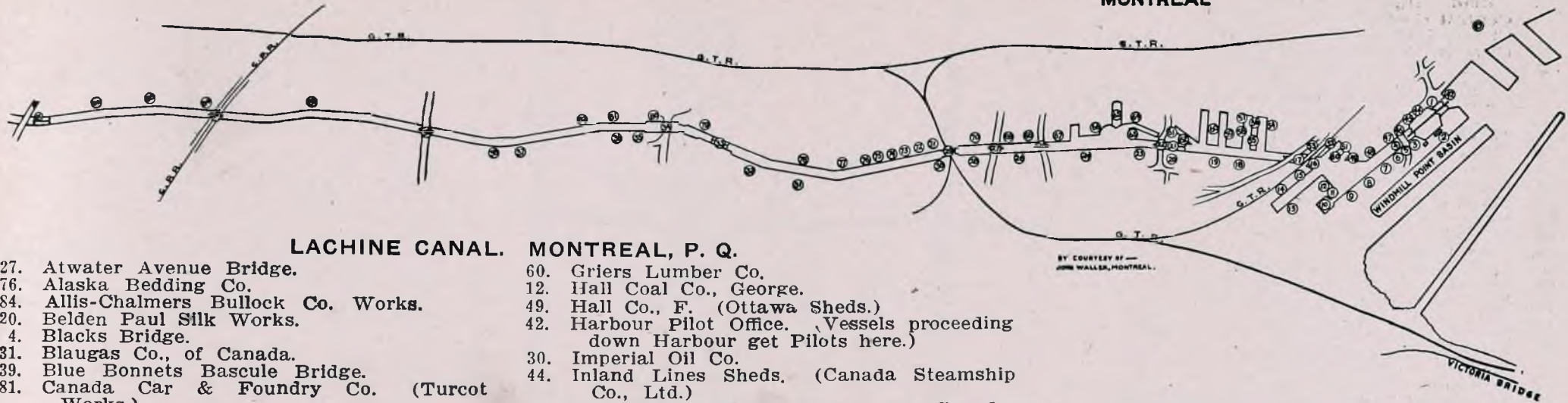


**GREEN BAY, WIS.**

- 7. Barkhausen Coal & Dock Co
- 1. Cargill Elevator Co.
- 8. Central Coal Co.
- 5. Duncan Fuel Co.
- 4. Flatley Bros. Co.
- 2. Hurlbut Co., F.
- 3. Interstate Coal & Dock Co.
- 9. Joannes Brothers.
- 6. Reiss Coal Co., C.

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## LACHINE CANAL MONTREAL



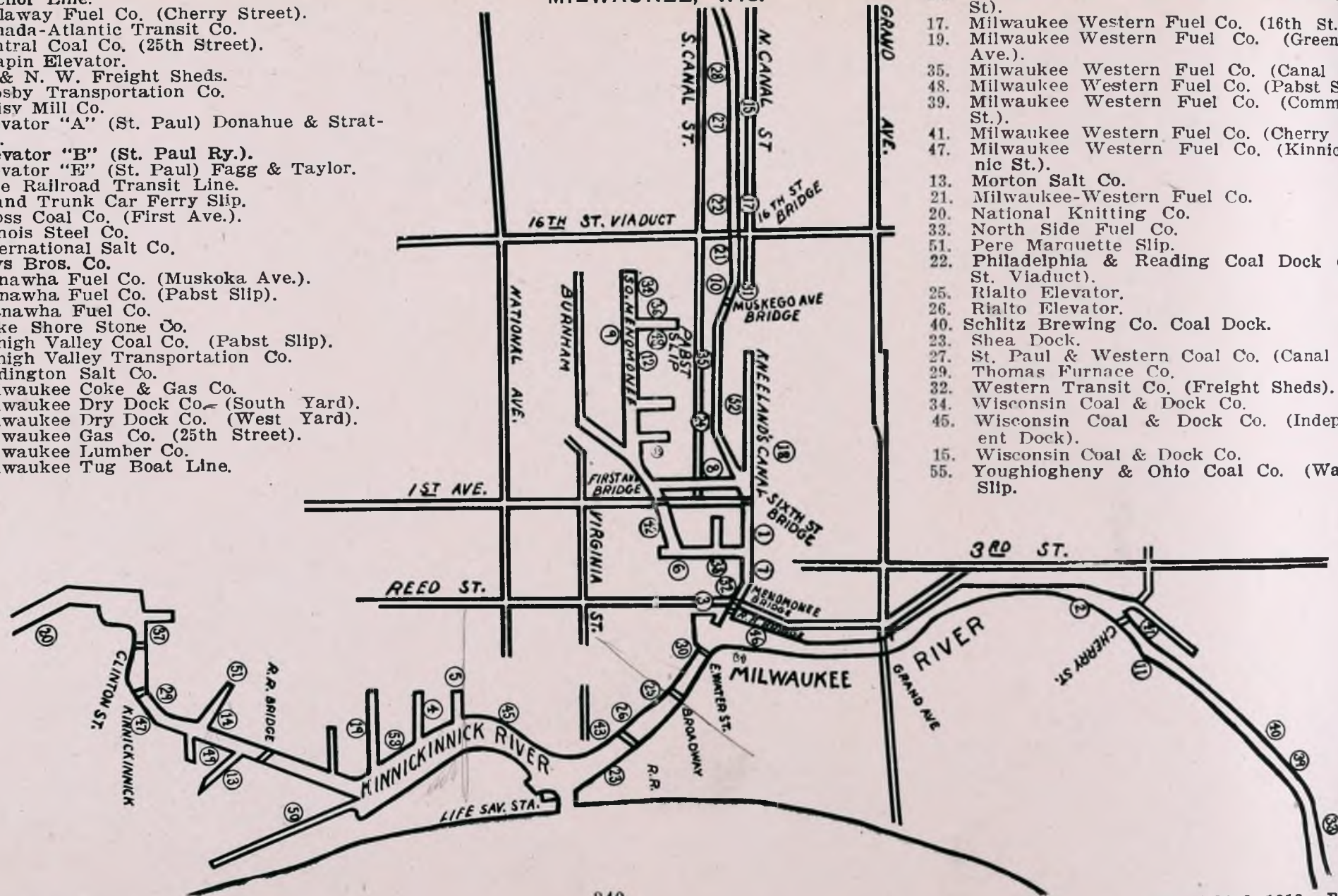
### LACHINE CANAL. MONTREAL, P. Q.

- BY COURTESY OF —  
JOHN WALLER, MONTREAL.
- |  |   |   |
|--|---|---|
| 27. Atwater Avenue Bridge.                           | 60. Griens Lumber Co.   | 75. Ogdensburg Coal & Towing Co. (Coal Yard.)       |
| 76. Alaska Bedding Co.                               | 12. Hall Coal Co., George.  | 8. Ogilvie Milling Co. (City Mill & Elevator.)      |
| 84. Allis-Chalmers Bullock Co. Works.                | 49. Hall Co., F. (Ottawa Sheds.)  | 9. Ogilvie Milling Co. (Royal Mills & Elevator.)    |
| 20. Belden Paul Silk Works.                          | 42. Harbour Pilot Office. (Vessels proceeding down Harbour get Pilots here.)                                      | 63. Ogilvie Milling Co. (Flour Sheds.)              |
| 4. Blacks Bridge.                                    | 30. Imperial Oil Co.  | 61. Ogilvie Milling Co. (Glenora Mills & Elevator.) |
| 31. Blaugas Co., of Canada.                          | 44. Inland Lines Sheds. (Canada Steamship Co., Ltd.)  | 50. Ontario & Quebec Navigation Co.                 |
| 39. Blue Bonnets Bascule Bridge.                     | 55. Inland Lines Sheds, Ottawa St. (Canada Steamship Co., Ltd.)   | 51. Ottawa Forwarding Co.                           |
| 81. Canada Car & Foundry Co. (Turcot Works.)         | 29. International Ry. Bridge.   | 7. Pecks Rolling Mills.                             |
| 83. Canada Car & Foundry Co. (Dominion Works.)       | 87. Lachine Locks.  | 43. Pilots Superintendent's Office.                 |
| 77. Canada Malting Co. (Elevator.)                   | 41. Lachine Locks (Upper entrance to Canal).<br>1. Lock No. 1, 2 locks right and left, where Canal enters Harbor. | 70. Prefontaine Lumber Co.                          |
| 64. Canada Paint Works.                              | 3. Lock No. 2, right and left.  | 24. Prefontaine Lumber Co.                          |
| 19. Canada Sugar Refining Co.                        | 66. Maple Leaf Milling Co. (Elevator.)  | 6. Record Foundry.                                  |
| 80. Canadian Light, Heat & Power Co.                 | 47. Market & River Steamers.  | 26. Redfern Lumber Co.                              |
| 82. Canadian Marble Works.                           | 71. Merchants Cotton Mills. (Dominion Textile Co.)  | 32. Rice Mills.                                     |
| 13. Canadian Oil Co.                                 | 62. McDougall Brothers. (Caledonian Iron Works.)  | 59. Robertson Coal Co. (Coal Dock.)                 |
| 40. Canadian Pacific Ry. Bridge.                     | 10. Montreal Dry Dock Co. (Hall Engineering Co.)  | 38. Rubberoid Roofing Co.                           |
| 69. Canadian Pacific Ry. Co. (Freight Yards.)        | 37. Montreal Light, Heat & Power Co. (Lal-Salle Works and Coal Dock.)   | 74. Rutherford Lumber Co.                           |
| 36. Canadian Tube & Iron Works.                      | 79. Montreal Light, Heat & Power Co.  | 22. Seigneur Street Bridge.                         |
| 45. Canal Office (Canal passes issued and received). | 67. Montreal Rolling Mills Co. (Steel Co. of Canada.)   | 28. Sherwin-Williams Co.                            |
| 53. Canal Superintendent's Office.                   | 58. Montreal Sand & Gravel Co.  | 23. Smart Woods Rope & Bag Works.                   |
| 25. Charlevoix Street Bridge.                        | 18. Montreal Steel Works.   | 21. St. Gabriels Lock.                              |
| 65. Contin Dry Dock.                                 | 52. Montreal Warehousing Co. (Elevator "A").<br>2. Montreal Warehousing Co. (Elevator "B") Grand Trunk.           | 72. St. Henry Pipe Mills. (Steel Co. of Canada.)    |
| 34. Cote St. Paul Bridge.                            | 48. Mutual Line Sheds. (Canada Steamship Co., Ltd.)   | 78. Standard Chemical Co.                           |
| 33. Cote St. Paul Lock.                              | 54. Ogdensburg Coal & Towing Co. (Coal Dock.)   | 57. Touzin Sand Co.                                 |
| 46. Customs Office. (Lake Vessels.)                  |   | 17. Wellington Street Bridge.                       |
| 86. Dominion Bridge Co. Works.                       |   |   |
| 14. Dominion Coal Co. (Wellington Basin.)            |   |   |
| 73. Dominion Flour Mills Co. (Elevator.)             |   |   |
| 5. Dominion Linseed Oil Works.                       |   |   |
| 35. Dominion Textile Co. (Mt. Royal Mills.)          |   |   |
| 85. Dominion Wire Co.                                |   |   |
| 56. Government Cement Sheds.                         |   |   |
| 11. Government Dock & Repair Shops.                  |   |   |
| 16. Grand Trunk Bridge.                              |   |   |
| 15. Grand Trunk Ry. Bonded Sheds.                    |   |   |
| 68. Grand Trunk Ry. (Freight Sheds.)                 |   |   |

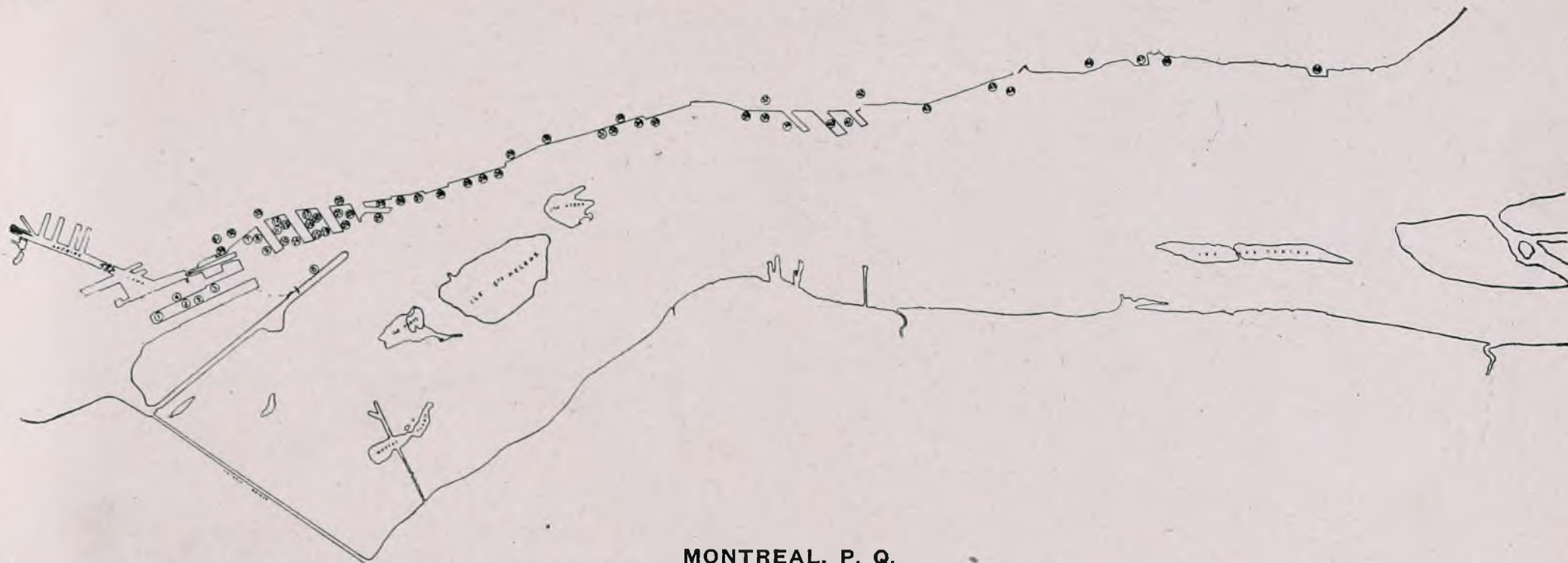
MILWAUKEE, WIS.

1. Anchor Line.
2. Callaway Fuel Co. (Cherry Street).
3. Canada-Atlantic Transit Co.
28. Central Coal Co. (25th Street).
42. Chapin Elevator.
43. C. & N. W. Freight Sheds.
46. Crosby Transportation Co.
4. Daisy Mill Co.
6. Elevator "A" (St. Paul) Donahue & Stratton.
18. Elevator "B" (St. Paul Ry.).
9. Elevator "E" (St. Paul) Fagg & Taylor.
7. Erie Railroad Transit Line.
49. Grand Trunk Car Ferry Slip.
8. Gross Coal Co. (First Ave.).
50. Illinois Steel Co.
52. International Salt Co.
54. Joys Bros. Co.
10. Kanawha Fuel Co. (Muskoka Ave.).
36. Kanawha Fuel Co. (Pabst Slip).
31. Kanawha Fuel Co.
11. Lake Shore Stone Co.
12. Lehigh Valley Coal Co. (Pabst Slip).
38. Lehigh Valley Transportation Co.
13. Ludington Salt Co.
14. Milwaukee Coke & Gas Co.
5. Milwaukee Dry Dock Co. (South Yard).
24. Milwaukee Dry Dock Co. (West Yard).
15. Milwaukee Gas Co. (25th Street).
37. Milwaukee Lumber Co.
30. Milwaukee Tug Boat Line.

53. Milwaukee Western Fuel Co. (Washington St.).
17. Milwaukee Western Fuel Co. (16th St.).
19. Milwaukee Western Fuel Co. (Greenfield Ave.).
35. Milwaukee Western Fuel Co. (Canal St.).
48. Milwaukee Western Fuel Co. (Pabst Slip).
39. Milwaukee Western Fuel Co. (Commerce St.).
41. Milwaukee Western Fuel Co. (Cherry St.).
47. Milwaukee Western Fuel Co. (Kinnickinnic St.).
13. Morton Salt Co.
21. Milwaukee-Western Fuel Co.
20. National Knitting Co.
33. North Side Fuel Co.
51. Pere Marquette Slip.
22. Philadelphia & Reading Coal Dock (16th St. Viaduct).
25. Rialto Elevator.
26. Rialto Elevator.
40. Schlitz Brewing Co. Coal Dock.
23. Shea Dock.
27. St. Paul & Western Coal Co. (Canal St.).
29. Thomas Furnace Co.
32. Western Transit Co. (Freight Sheds).
34. Wisconsin Coal & Dock Co.
45. Wisconsin Coal & Dock Co. (Independent Dock).
15. Wisconsin Coal & Dock Co.
55. Youghiogheny & Ohio Coal Co. (Wagner Slip).

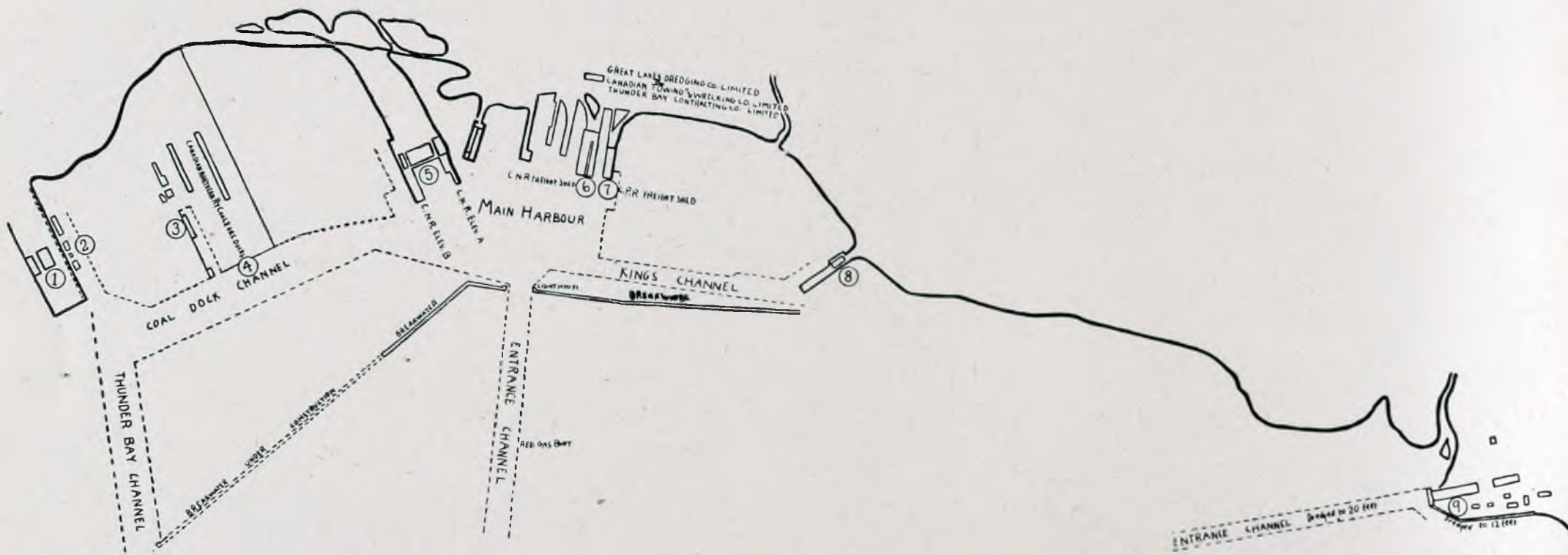






### MONTREAL, P. Q.

- |   |   |   |
|---|---|---|
| <p>7. Allen Line Steamers. (Atlantic Lines.)<br/>       8. Allen Line Steamers. (Atlantic Lines.)<br/>       9. Allen Line Steamers. (Atlantic Lines.)<br/>       47. American Locomotive Co. (Coal Dock.)<br/>       26. Black Diamond Lines. (Sidney &amp; West Indies.)<br/>       32. Boucherville Ferry Dock.<br/>       38. Boucherville Ferry Dock. (Lower Dock.)<br/>       23. Canada Lines. (German.)<br/>       49. Canada Cement Co. (Coal Dock.)<br/>       3. Canadian Import Co. (Coal Dock.)<br/>       20. Canadian Northern Lines. (Royal Line.)<br/>       43. Canadian Northern Coal Docks.<br/>       13. Canadian Pacific Lines. (Atlantic &amp; Continent.)<br/>       14. Canadian Pacific Lines.<br/>       15. Canadian Pacific Lines. (South African Lines.)<br/>       29. Canadian Rubber Co.<br/>       37. Canadian Spool Cotton Co.<br/>       45. Canadian Vikers Shipbuilding Co.<br/>       56. City Hall.<br/>       55. Court House.</p> | <p>18. Cunard Line.<br/>       51. Customs Examining Warehouse.<br/>       53. Customs House. (Inward &amp; Outward Ocean Going Vessels.)<br/>       35. Dominion Coal Co. (Windmill Point).<br/>       36. Dominion Cotton Mills.<br/>       10. Dominion Line Steamers. (Atlantic Line.)<br/>       17. Donaldson Line. (Glasgow &amp; London.)<br/>       30. Dominion Linseed Oil Co.<br/>       33. Dominion Textile Co.<br/>       44. Duke of Connaught Floating Dry Dock.<br/>       16. Elder Dempster Line.<br/>       4. Empire Coal Co. (Old Intercolonial Dock.)<br/>       27. Gaspé Steamship Co. (South Shore Gulf Ports.)<br/>       6. Harbour Commissioners Shops and Slip.<br/>       12. Harbour Commissioners Elevator No. 1.<br/>       22. Harbour Commissioners Elevator No. 2.<br/>       34. Keystone Transportation Co.<br/>       48. King Edward Park Ferry Co. Dock.<br/>       39. Laurier Pier. (Ocean Tramp Steamers Loading Dock.)</p> | <p>31. Longueuil Ferry Dock.<br/>       21. Manchester Liners.<br/>       24. Market Ferry Boats and Island Ferry.<br/>       52. Montreal Harbour Commissioners Office.<br/>       34. Montreal Light, Heat &amp; Power Co. Dock.<br/>       5. Montreal Terminal Warehouse Co. (Grand Trunk Elevator.)<br/>       Ocean Vessels loading berths along front of this dock.<br/>       2. Nova Scotia Coal &amp; Steel Co.<br/>       28. Ocean &amp; Gulf Tramp Steamer Berth.<br/>       54. Port Office. (Head Office.)<br/>       25. R &amp; O Passenger Steamers (for Quebec &amp; Saguenay Boats, also for River towns).<br/>       46. Shell Oil &amp; Transport So.<br/>       50. Sinnes-McNaughton Tug Co. (Office.)<br/>       42. St. Lawrence Sugar Refinery Co.<br/>       41. Sutherland Pier. (Ocean Tramp Steamers unloading berth.)<br/>       40. Tarte Pier. (Ocean Tramp Steamers loading berth.)<br/>       19. Thompson &amp; Cairn Lines.<br/>       11. White Star Line.</p> |
|---|---|---|

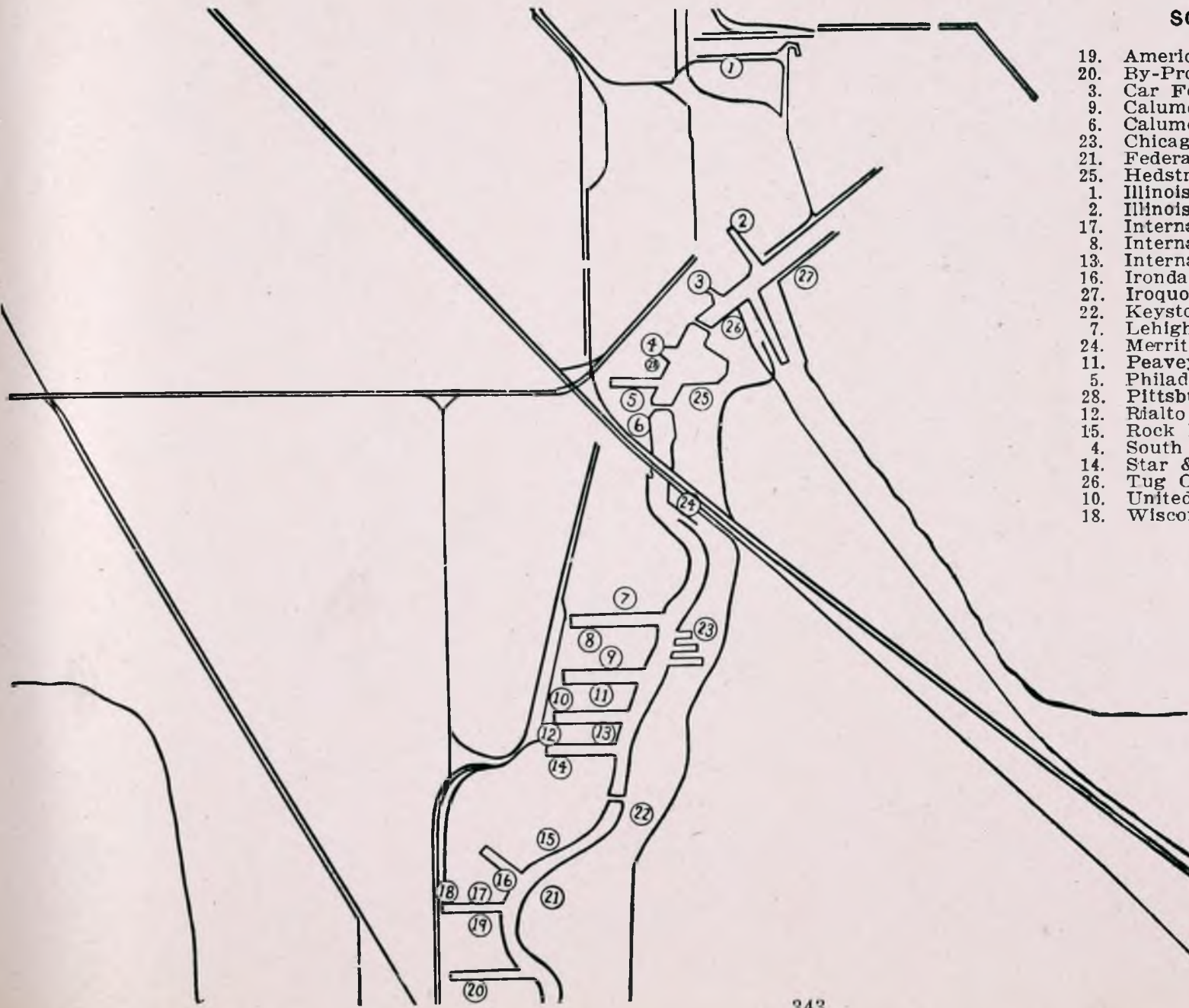


PORT ARTHUR, ONTARIO

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>3. Atikoken Iron Co.</li> <li>4. Canadian Northern Ry., Coal &amp; Ore docks.</li> <li>5. Canadian Northern Ry., (Elevators "A" &amp; "B").</li> <li>6. Canadian Northern Ry., (Freight Sheds).</li> <li>7. Canadian Northern Ry., (Freight Sheds).</li> </ul> | <ul style="list-style-type: none"> <li>8. Canadian Pacific Rys., (Hornes Elevator).</li> <li>1. Grain Commissioners of Canada, (Elevator).</li> <li>2. Thunder Bay Terminal Elevator Co., Ltd.</li> <li>9. Western Dry Dock &amp; Shipbuilding Co., Ltd.</li> </ul> |
|---|---|

## SOUTH CHICAGO, ILL.

19. American Linseed Co.
20. By-Products Coke Corporation (112th St.).
3. Car Ferry Slip.
9. Calumet Elevators "A," "B" & "C."
6. Calumet River Elevator (96th Street).
23. Chicago Ship Building Co.
21. Federal Furnace Co. (108th Street).
25. Hedstrom & Co., E. L. (95th Street).
1. Illinois Steel Co. (North Dock).
2. Illinois Steel Co. (South Dock).
17. International Harvester Co.
8. International Salt Co.
13. International Salt Co.
16. Irondale Elevator "A" (107th Street).
27. Iroquois Iron Co.
22. Keystone Elevator.
7. Lehigh Valley Coal Co. (100th Street).
24. Merritt Elevator.
11. Peavey Elevators "A" & "B."
5. Philadelphia & Reading Coal Co. (95th St.)
28. Pittsburgh Coal Co.
12. Rialto Elevator "A" (104th St.).
15. Rock Island Dock.
4. South Chicago Elevators "C" & "D."
14. Star & Crescent Milling Co.
26. Tug Office.
10. United States Gypsum Co.
18. Wisconsin Steel Co. (109th St.).



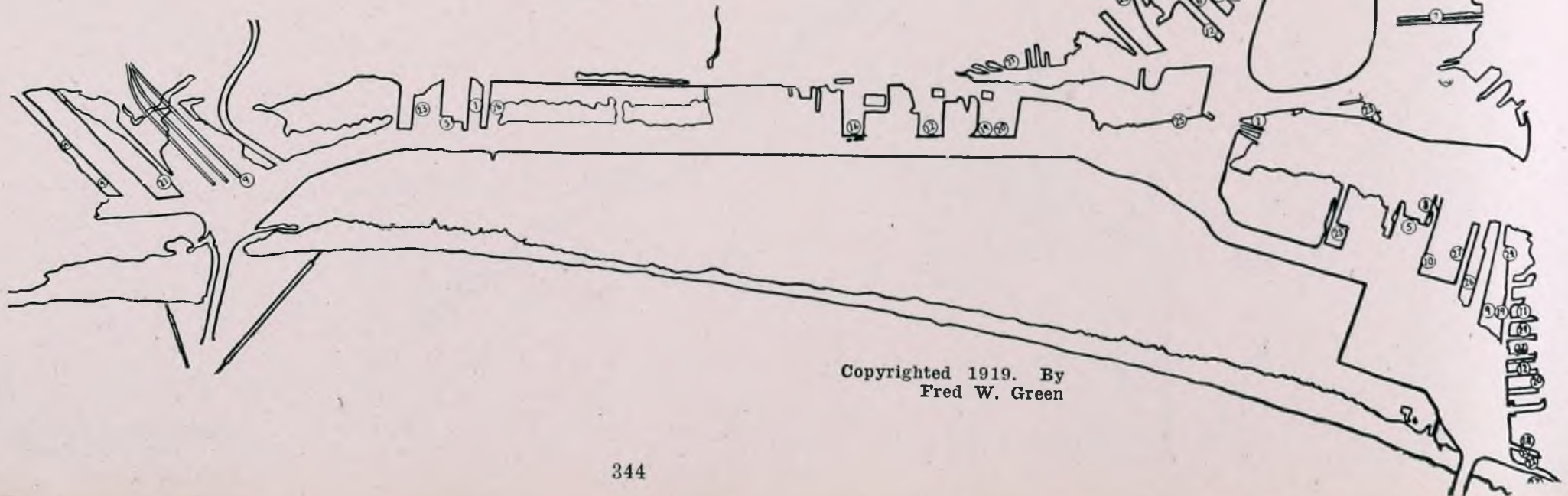
## SUPERIOR, WIS.

1. Belt Line Elevator.
2. Berwind Fuel Co.
3. Carnegie Dock & Fuel Co., Dock No. 1.
4. C. M. St. P. & O. Freight Sheds.
5. Daisy Flour Mills.
6. Globe Elevator.
7. Great Lakes Coal & Dock Co.
8. Great Northern, "Elevator."
9. Great Northern, "Ore docks."
10. Great Northern, "Rail dock."
11. Great Northern, "Warehouse."
12. Hanna Dock Co., M. A.
13. Island Creek Coal Dock Co., No. 2.
14. Itasca Elevator.
15. Lehigh Valley Coal Dock.
29. Morton Salt Co.
16. North Western Fuel Co., Dock No. 1.
17. North Western Fuel Co., Dock No. 2.
18. North Western Fuel Co., Dock No. 3.
19. Northern Coal & Dock Co., (Osborn).
20. Philadelphia & Reading Coal Dock.
21. Pittsburgh Coal Co., Dock No. 5.
22. Pittsburgh & Ashland Coal & Dock Co.
23. Reiss Coal Co. C Dock No. 3.
24. Soo Line Ore Docks.
25. Superior Coal & Dock Co.
26. Superior Manufacturing Co.
27. Superior Shipbuilding Co.
28. Terminal Elevators K & L.

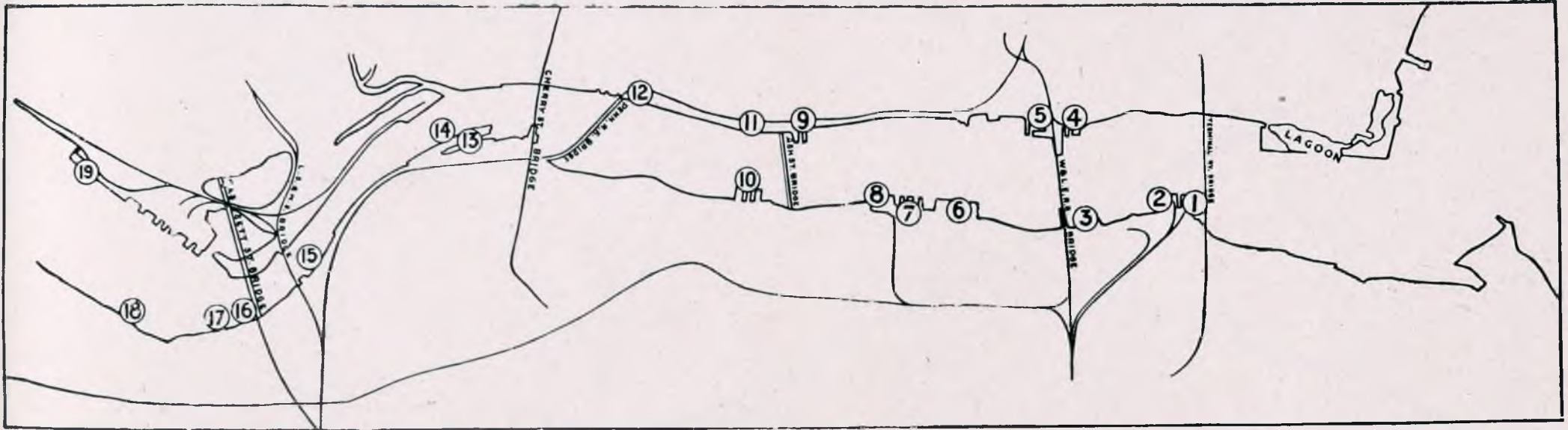
## DULUTH, MINN.

1. Alger-Smith & Co., Lumber dock.
2. Alger-Smith & Co., Lumber dock.

3. Berwind Fuel Co.
4. Boston Coal Dock & Wharf Co.
34. Canadian Northern Lumber Dock.
5. Capital Elevator.
6. Carnegie Coal Dock No. 2.
7. Clark & Jackson, Lumber dock.
8. Clarkson Coal & Dock Co.
9. Consolidated Elevators, "B. C. D. & G."
10. Consolidated Elevators, "H. E. & F."
11. Cutler & Co., D. G.
12. C. M. St. P. & O. Freight Sheds.
13. Duluth, Missabe & Northern, "Coal dock."
14. Duluth, Missabe & Northern, "Lumber dock."
15. Duluth, Missabe & Northern, "Ore docks."
16. Island Creek Coal Dock No. 1.
32. Kelly Island Lime Co.
17. Marshall-Wells Hardware Co.
33. Mullery & McDonald Forwarding Co.
18. North Western Fuel Co.
19. Northern Pacific, "Freight shed No. 2."
20. Northern Pacific, "Freight shed No. 4."
21. Northern Pacific, "Freight shed No. 5."
22. Northern Pacific, "Freight shed No. 6."
23. Northern Pacific, "Lumber dock."
24. Northern Pacific, "Rail dock."
25. Peavey Elevator.
26. Pittsburgh Coal Dock No. 1.
27. Pittsburgh Coal Dock No. 7.
28. Red Cliff Lumber Co., Lumber dock.
29. Soo Line, "Freight sheds."
30. Virginia & Rainey Lake Lumber Co.
31. Zenith Furnace Co.

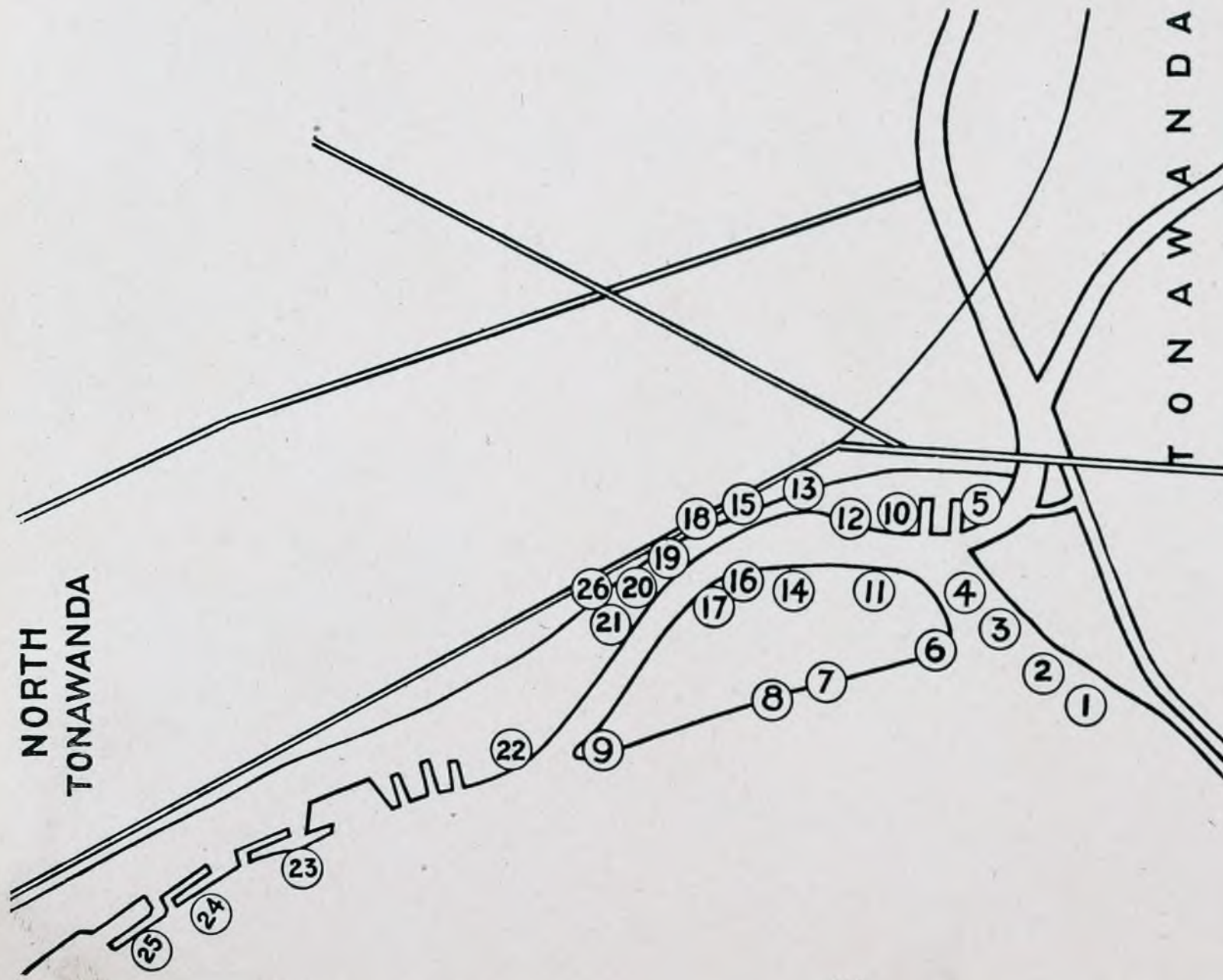


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**TOLEDO, OHIO**

- |                                      |  |                                      |
|--------------------------------------|--|--------------------------------------|
| 1. Asphalt Block Pavement Co.        | 3. Gillmore's Dry Dock.                      | 19. Schenck Coal Dock, S. C.         |
| 16. C. H. and D. Ry. Co. (Elevator). | 10. Hocking Valley Coal and Ore Docks (New). | 12. Toledo Fuel Co.                  |
| 17. B. & O. Ry. Co. (Coal Dock).     | 2. Ironville Coal Dock.                      | 6. Toledo Furnace Co.                |
| 18. B. & O. Ry. Co. (Ore Dock).      | 4. Kelsey & Freeman Lumber Dock.             | 7. Toledo Shipbuilding Co.           |
| 15. East Side Iron Elevator Co.      | 5. National Milling Co. (Elevator.)          | 13. Toledo & Ohio Central Ore Dock.  |
| 9. Empire Lumber Co.                 | 5. National Pole Co.                         | 14. Toledo & Ohio Central Coal Dock. |
|                                      | 11. Pennsylvania Docks. (Old Hocking.)       |                                      |



**TONAWANDA &  
NORTH TONAWANDA, N. Y.**

- 21. Alliger, F. I.
- 9. Ballinger, A. A.
- 13. Bennett Lumber Co., Ray H.
- 19. Brady Brothers.
- 10. Dodge & Bliss.
- 2. Eastern Lumber Co.
- 16. Enterprise Lumber & Silo Co.
- 17. Haines Lumber Co.
- 7. Jones Lumber Co., R. T.
- 18. Kelsey & Son, W. E.
- 15. McLean Brothers.
- 20. MacKenzie, J. P.
- 12. Meyers, George C.
- 6. Northern Lumber Co.
- 4. Paper Mill Dock.
- 11. Robinson Brothers.
- 1. Scribner Lumber Co., J. W.
- 5. Scribner Lumber Co., J. W.
- 16. Silverthorne & Co.
- 14. Smith-Fassett & Co.
- 26. Tonawanda Fueling Co.
- 22. Tonawanda Iron & Steel Co.
- 8. Twin City Lumber Co.
- 23. Weston & Son, A.
- 24. White-Gratwick & Mitchell.
- 25. White-Gratwick & Mitchell  
(Lower Dock).
- 3. Wilson Lumber & Box Co.

## ENGINES AND BOILERS

VESSEL	ENGINES			BOILERS		Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Aberdeen . . . . .	Steeple Comp. . . . .	13½-26x18	1	Fire Box . . . . .	6'6"x12'	
Acadian . . . . .	Triple Exp. . . . .	18-30-50x36	2	Scotch . . . . .	13'x10'	1908
Ada Alice (Can.) . . . . .	H. P. N. C. . . . .	9½x10	1	Scotch . . . . .	5'x7'	1897
Adams, Cuyler . . . . .	Triple Exp. . . . .	22½-36-60x42	2	Scotch . . . . .	13'9"x11'6"	1904
Adams, Thomas . . . . .	Triple Exp. . . . .	20-32½-55x40	2	Scotch . . . . .	13'2"x12'	1902
Adriatic . . . . .	Triple Exp. . . . .	22-35-58x42	2	Scotch . . . . .	13'9"x11'6"	1907
Advance . . . . .	F. & A. . . . .	25½-52x42	2	Scotch . . . . .	9'6"x11'	1884
Agassiz, R. L. . . . .	Triple Exp. . . . .	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1907
Agawa . . . . .	Triple Exp. . . . .	20-33½-55x40	2	Scotch . . . . .	14'x12'	1907
Agnew, Wm. C. . . . .	Triple Exp. . . . .	23½-38-63x42	3	Scotch . . . . .	12'6"x11'6"	1911
Agnes, W. . . . .	F. & A. . . . .	20-54x45	2	Fire Box . . . . .	9'x16'	1887
Alabama . . . . .	Triple Exp. . . . .	23-38-62x36	3	Scotch . . . . .	12'6"x11'	1909
Alaska . . . . .	Steeple Comp. . . . .	24-51x36	1	Scotch . . . . .	13'x11'	1886
Alberta . . . . .	F. & A. . . . .	35-70x48	2	Scotch . . . . .	14'x12'3"	1883
Algomah . . . . .	F. & A. . . . .	18-37x36	1			
Algonquin (Can.) . . . . .	Triple Exp. . . . .	21-33-54x36	2	Scotch . . . . .	13'x9'	1883
Allegheny . . . . .	Quad. Exp. . . . .	19-27½-40-58x42	3	Scotch . . . . .	11'6"x11'6"	1910
Alpena . . . . .	Quad. Exp. . . . .	17½-25½-37-54x36	2	Scotch . . . . .	13'2"x11'6"	1909
Amazon . . . . .	Triple Exp. . . . .	19-30-50x42	2	Scotch . . . . .	12'x12'	1908
Amazonas . . . . .	Triple Exp. . . . .	16-25-42x36	1	Scotch . . . . .	12'3"x12'	1898
Amberg, Wm. A. . . . .						
America . . . . .	F. & A. . . . .	28-52x48	2	Scotch . . . . .	11'6"x12'	1889
America . . . . .	Triple Exp. . . . .	15-24-38x24	2	Scotch . . . . .	10'x10'2"	1898
America . . . . .	Triple Exp. . . . .	23-36-62x48	3	Scotch . . . . .	12'x11'	1905
Americana . . . . .	Triple Exp. . . . .	20-32-50x36	2	Scotch . . . . .	13'2"x11'6"	1908
Ames, A. E. (Can.) . . . . .	Triple Exp. . . . .	20½-33-59x36	2	Scotch . . . . .	13'6"x10'3"	1903
Andaste . . . . .	Quad. Exp. . . . .	17-29-47x36	2	Scotch . . . . .	11'x12'	1906
Andrews, Matthew . . . . .	Triple Exp. . . . .	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1907
Angeline . . . . .	Triple Exp. . . . .	22-35-58x42	2	Scotch . . . . .	13'2"x11'7"	1899
Ann Arbor 2 . . . . .	F. & A. . . . .	20-40x36	2	Fire Box . . . . .	10'x15'	1892
Ann Arbor 3 . . . . .	F. & A. . . . .	20-40x36	2	Scotch . . . . .	12¾x13	
Ann Arbor 4 . . . . .	2 Triple Exp. . . . .	14-22½-38x32	2	Scotch . . . . .	12'10"x13'	1906
Ann Arbor 5 . . . . .	2 Triple Exp. . . . .	21-33-52x40	4	Scotch . . . . .	13'6"x12'	1910
Annie Laura . . . . .	H. P. N. C. . . . .	20x24	1	Fire Box . . . . .	9'x15'	1892
Arabian (Can.) . . . . .	F. & A. . . . .	20-40½x34	1	Scotch . . . . .	11'3"x10'3"	1892
Arcturus . . . . .	Triple Exp. . . . .	22½-36-60x42	2	Scotch . . . . .	13'9"x11'6"	1906

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES			BOILERS		Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Areil . . . . .	Non. Cond. . . . .	20x24	1	Fire Box . . . . .	8'x15'6"	1881
Argo . . . . .	F. & A. . . . .	22-42x36	1	Scotch . . . . .	12'x14'	1911
Argus . . . . .	Quad. Exp . . . . .	17½-30¼-44-63½x42	3	Scotch . . . . .	12'x10'6"	1898
Arizona . . . . .	Steeple Comp. . . . .	22-40x30	1	Scotch . . . . .	11'3"x12'	1897
Arizona . . . . .	F. & A. . . . .	28-50x36	2	Fire Box . . . . .	9'x16'	
Arlington . . . . .	Quad. Exp. . . . .	17½-25½-37-54x36	2	Scotch . . . . .	12'6"x11'6"	1910
Armstrong, Wm. . . . .	H. P. N. C. . . . .	16x16	2	Fire Box . . . . .	6'x12'	1903
Arrow . . . . .	Beam Cond. . . . .	40x108	1	Fire Box . . . . .	12'x16'	1889
Ashley, J. S. . . . .	Quad. Exp. . . . .	18-26¾-41-63x42*	2	Scotch . . . . .	14'6"x11'6"	1909
Assiniboia (Can.) . . . . .	Quad. Exp. . . . .	23½-34-48½-70x45	4	Scotch . . . . .	14'10"x11'	1907
Ashtabula . . . . .	Triple Exp. 2 . . . . .	19½-31-52x36	4	Scotch . . . . .	13'2"x11'6"	1906
Athabasca (Can.) . . . . .	F. & A. . . . .	35-70x48	2	Scotch . . . . .	14'x12'3"	1883
Atikokan (Can.) . . . . .	Triple Exp. . . . .	18½-32-54x42	2	Scotch . . . . .	12'x13'	1894
Atlantis . . . . .	N. C. . . . .	15x28	1	Fire Box . . . . .	6'x10'6"	
Augustus, A. A. . . . .	Triple Exp. . . . .	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1910
Avon . . . . .	Steeple Comp. . . . .	25-54x36	1	Fire Box . . . . .	9'4"x14'6"	1903
Aztec . . . . .	Steeple Comp. . . . .	22-44x40	1	Scotch . . . . .	13'4"x11'6"	1900
Baker, Geo. F. . . . .	Triple Exp. . . . .	24-39-65x42	2	Scotch . . . . .	16'x11'6"	1907
Bain, Jessie . . . . .	F. & A. . . . .	10-18x12	1	Fire Box . . . . .	3'6"x8"	1883
Ball Brothers . . . . .	Triple Exp. . . . .	22½-36-60x42	2	Scotch . . . . .	13'9"x11'6"	1905
Ball, Frank C. . . . .	Triple Exp. . . . .	23-37-63x42	2	Scotch . . . . .	15'x12'	1906
Barlum, John J. . . . .	Triple Exp. . . . .	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1909
Barlum, Thomas . . . . .	Triple Exp. . . . .	22½-36-60x42	2	Scotch . . . . .	13'9"x11'6"	1907
Barnes, R. L. . . . .	Triple Exp. . . . .	18-30-50x42	2	Scotch . . . . .	12'x11'	1916
Barnum, G. G. . . . .	Triple Exp. . . . .	23½-38-63x42	2	Scotch . . . . .	14'4"x12'	1905
Barth, L. L. . . . .	F. & A. . . . .	22-40x40	1	Scotch . . . . .	12'6"x13'	1911
Bartow, J. H. . . . .	Triple Exp. . . . .	22½-36-60x42	2	Scotch . . . . .	13'9"x11'6"	1907
Battle, Mary (Can.) . . . . .	F. & A. . . . .	18-32x26	1	Fire Box . . . . .	7'6"x15'	1889
Bawating (Can.) . . . . .	H. P. N. C. . . . .	20½x24	1	Fire Box . . . . .	8'6"x15'	1890
Beatty, Charles . . . . .	Triple Exp. . . . .	15¼-25-42x36	2	Scotch . . . . .	11'x10'	1902
Beard, James . . . . .	H. P. . . . .	17x18	1	Fire Box . . . . .	6'x12'	
Beaverton (Can.) . . . . .	Triple Exp. . . . .	17-28-46x33	2	Scotch . . . . .	12'x11'	1908
Belgium . . . . .	Triple Exp. . . . .	22-33½-55x40	2	Scotch . . . . .	12'10"x13'	1902
Bellville (Can.) . . . . .	Cond. . . . .	43x108	2		9'5"x10'4"	
Bennington . . . . .	Quad. Exp. . . . .	16¾-24-35-51x36	2	Scotch . . . . .	12'2"x11'9"	1907

\*Ex. Str. Lafayette



ENGINES AND BOILERS—Continued

VESSEL	ENGINES			BOILERS		Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Berry, B. F. ....	Triple Exp. ....	22½-36-60x42	2	Scotch . . . . .	14'6"x11'6"	1908
Bessemer, Sir Henry . . . . .	Triple Exp. ....	23-41-66x42	2	Scotch . . . . .	14'6"x11'6"	1906
Bethlehem . . . . .	Triple Exp. ....	24-38-61x42	3	Scotch . . . . .	11'6"x12'	1888
Bielman, C. F. . . . .	Dble. Steeple Comp.	2-18-2-52x42	2	Scotch . . . . .	11'9"x12'	1892
Bielman, C. F., Jr. . . . .	F. & A. . . . .	6½-13x8	1	Water Tube . . . . .		
Billings, Frank . . . . .	Triple Exp. ....	22½-36-60x42	2	Scotch . . . . .	13'9"x12'	1910
Binghamton . . . . .	2 Steeple Comp. . . . .	22-40x48	2	Fire Box . . . . .	10'x15'6"	1891
Bixby, W. K. . . . .	Triple Exp. ....	22½-36-60x42	2	Scotch . . . . .	13'9"x11'6"	1906
Black, C. A. . . . .	Triple Exp. ....	22-35-58x40	2	Scotch . . . . .	13'2"x11'6"	1898
Black, H. F. . . . .						
Black Rock . . . . .	F. & A. . . . .	25-50x40	1	Fire Box . . . . .	13'x12'	1897
Block, Joseph . . . . .	Triple Exp. ....	24-39-65x42	2	Scotch . . . . .	15'4"x11'6"	1907
Bluebell (Can.) . . . . .	Inclined Comp. . . . .	17-34x48	1	Clyde . . . . .	10'6"x11'	1906
Boeckling, G. A. . . . .	Inclined Comp. . . . .	25½-44½x72	1	Scotch . . . . .	12'x12'	1909
Boland, John J. . . . .	Triple Exp. ....	22½-36-60x42	2	Scotch . . . . .	13'9"x12'	1907
Bon Ami . . . . .	F. & A. . . . .	14-28x20	1	Fire Box . . . . .	7'x12'	1894
Booth, Edwin L. . . . .	Triple Exp. ....	22-35-58x42	2	Scotch . . . . .	13'2"x11'7"	1901
Boston . . . . .	Triple Exp. ....	19-27½-40x42	2	Scotch . . . . .	14'x12'	1913
Bothnia (Can.) . . . . .	2 Steeple Comp. . . . .	13-36x30	2	Water Tube . . . . .	6'x11'6"	1895
Bradley, Carl D. . . . .	Triple Exp. ....	25½-41-67x42	3	Scotch . . . . .	14'x11'2"	1917
Bradley, C. H. . . . .	F. & A. . . . .	24-48x40	1	Scotch . . . . .	12'x14'	1911
Bradley, M. A. . . . .	Triple Exp. ....	21½-35-58x42	2	Scotch . . . . .	13'3"x11'6"	1908
Brandon . . . . .	Quad. Exp. ....	17½-25½-37-54x36	2	Scotch . . . . .	12'6"x11'6"	1910
Brazil . . . . .	Triple Exp. ....	19½-32-52x45	2	Scotch . . . . .	11'6"x12'	1890
Breitung, Charlotte G. . . . .	Triple Exp. ....	23-38-63x40	2	Scotch . . . . .	13'2"x12'	1916
Britannia . . . . .	Triple Exp. ....	20-32-50x36	2	Scotch . . . . .	13'3"x12'	
Britannic (Can.) . . . . .	Beam Cond. . . . .	35x96	1	Clyde . . . . .	11'4"x13'	
Briton . . . . .	Triple Exp. ....	24-38-61x42	2	Scotch . . . . .	14'x12'6"	1891
Brockville (Can.) . . . . .	F. & A. . . . .	9-18x14	1	Fire Box . . . . .	4'9"x8'	1898
Brower, A. G. . . . .	Triple Exp. ....	20-33½-53x40	2	Scotch . . . . .	12'10"x13'	1901
Brown, Fayette . . . . .	Triple Exp. ....	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1910
Brown, H. H. . . . .	Triple Exp. ....	24-38-65x42	2	Scotch . . . . .	16'x12'	1908
Brown, J. J. H. . . . .	Triple Exp. ....	22-35-58x40	2	Scotch . . . . .	13'9"x11'6"	1908
Brown, W. L. . . . .	Triple Exp. ....	23-38-64x40	2	Scotch . . . . .	13'x13'	1901
Brown, W. W. . . . .	Triple Exp. ....	20-33½-55x40	2	Scotch . . . . .	12'10"x13'	1902

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES			BOILERS		Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Brownell, Geo. F. ....	Triple Exp. ....	28-42-72x54	2	Scotch . . . . .	14'6"x10'6"	1913
Buckley, Edw. ....	F. & A. ....	18-36x30	1	Fire Box . . . . .	9'x14'	1891
Buel, F. R. ....	Steeple Comp. ....	20-40x36	1	Fire Box . . . . .	10'x16'	1888
Buffalo . . . . .	Quad. Exp. ....	20½-29¼-43½-63x42	3	Scotch . . . . .	11'6"x12'6"	1899
Buffington, E. J. ....	Triple Exp. ....	24-39-65x42	2	Scotch . . . . .	16'x11'6"	1909
Bulgaria . . . . .	F. & A. ....	23-48x45	2	Scotch . . . . .	13'6"x11'6"	1899
Bunsen, R. W. E. ....	Quad. Exp. ....	20½-30-43½-63x42	3	Scotch . . . . .	15'4"x11'	1916
Burlington . . . . .	Quad. Exp. ....	16¾-24-35-51x36	2	Scotch . . . . .	12'2"x11'9"	1907
Burnham, Geo. ....	Steeple Comp. ....	19-32x30	1	Fire Box . . . . .	8'6"x16'3"	1884
Business . . . . .	Steeple Comp. ....	18-36x36	2	Fire Box . . . . .	6'x14'	1883
Butler, J. G., Jr. ....	Triple Exp. ....	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1905
Byers, A. M. ....	Triple Exp. ....	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1910
Cabotia (Can.) . . . . .	F. & A. ....	21-50x46	1	Scotch . . . . .	12'x12'6"	1889
Cadillac . . . . .	Triple Exp. ....	15-25-42x30	1	Scotch . . . . .	13'x11'6"	1892
Cadwell, C. W. ....	F. & A. ....	16-30x26	1	Fire Box . . . . .	8'x12'	
Calcite . . . . .	Quad. Exp. ....	19-27½-40-58x42	3	Scotch . . . . .	11'6"x11'6"	1912
Caldera . . . . .	Triple Exp. ....	22½-36-60x42	2	Scotch . . . . .	13'9"x11'6"	1908
Calgary (Can.) . . . . .	Deisel Internal Comp.	9¾-12				1912
Calgarian (Can.) . . . . .	Triple Exp. ....	18-29-48x40	2	Scotch . . . . .	11'6"x11'	1913
Calumet . . . . .	Triple Exp. ....	22-35-58x42	2	Scotch . . . . .	13'9"x11'6"	1907
Campbell, J. A. ....	Triple Exp. ....	23-37-63x42	2	Scotch . . . . .	15'4"x11'6"	1913
Canadiana . . . . .	Triple Exp. ....	20-32-50x36	2	Scotch . . . . .	13'2"x11'6"	1910
Canadian (Can.) . . . . .	Triple Exp. ....	19-32-52x36	2	Scotch . . . . .	13'x10'	1907
Canopus . . . . .	Triple Exp. ....	22-36-60x40	2	Scotch . . . . .	13'2"x11'6"	1905
Carobie (Can.) . . . . .	F. & A. ....	26-48x42	1	Scotch . . . . .	14'6"x11'7"	1900
Canisteo . . . . .	Steeple Comp. ....	20-40x36	1	Fire Box . . . . .	10'x16'	1886
Carbray, Felix . . . . .	Steeple Comp. ....	24-54x36	1	Fire Box . . . . .	10'x15'	1891
Cardinal (Can.) . . . . .		18-36			11'x12'	
Caribou . . . . .	F. & A. ....	16-32x26	1	Scotch . . . . .	12'x12'	1904
Carolina . . . . .	F. & A. ....	20-40x28	4	Fire Box . . . . .	14'x18'	
Carleton (Can.) . . . . .	Triple Exp. ....	17-28-45x33				
Carter, W. J. ....	Steeple Comp. ....	15-28x26	1	Fire Box . . . . .	7'x13'	1886
Case . . . . .	Triple Exp. ....	20-32-52x40	2	Scotch . . . . .	11'x14'	1889
Castalia . . . . .	Triple Exp. ....	21-38-61x42	2	Scotch . . . . .	13'2"x11'6"	1914

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Cataract (Can.)	F. & A.	20-40x28	1	Scotch	13'2"x12'2"	1890
Cataract (Can.)	F. & A.	24-46x36	2	Scotch	8'x10'	1881
Cayuga (Can.)	Quad. Exp.	17½-25-36-52x30	7	Scotch	11'6"x12'	1906
Central, West	Triple Exp.	20-32-55x42	2	Scotch	13'x12'	1895
Centurion	Triple Exp.	20-33-54x44	2	Scotch	13'2"x11'6"	1916
Cepheus	Triple Exp.	22-35-58x42	2	Scotch	13'2"x11'6"	1903
Cetus	Triple Exp.	22-35-58x42	2	Scotch	13'2"x11'6"	1903
Chamberlin, C. W. (Can.)	F. & A.	18-32x26	1	Scotch	10'x11'	1891
Cherokee	Triple Exp.	28-42-72x54	1	Fire Box	11'4"x16'	1889
Chicago	Beam Cond.	46x132	2	Fire Box	9'x18'	1874
Chicago	Quad. Exp.	19-27½-48-58x42	3	Scotch	11'6"x11'1"	1901
Chicora (Can.)	Osc. Cond.	52x48	2	Scotch	10'2"x11'	1890
Chicoutimi (Can.)	Beam Cond.	45x120	2	Scotch	14'x9'	
Chief Wawatam						
Chili	Triple Exp.	20-33-54x40	2	Scotch	12'4"x11'6"	1895
Chipman, Susie	H. P.	18x24	1	Fire Box	6'6"x12'	
Chippewa (Can.)	Beam Cond.	75x132	5		10'x21'	1893
Chippewa	Beam Cond.	48x108	2		6'8"x18'	1910
Chisholm, A. S., Jr.	Comp.	16-32x24	1	Scotch	10'6"x12'	1906
Christie, T. S.	Steeple Comp.	19-36x30	1	Scotch	11'x12'	1905
Christopher	Triple Exp.	22-35-58x42	3	Scotch	12'x12'	1901
Cocoa	Triple Exp.	14-25-42x30	2	Scotch	11'x11'	1910
City of Alpena	Beam Cond.	44-66x132	2	Scotch	12'x20'	1893
City of Bangor	Triple Exp.	22-35-59x44	2	Scotch	15'6"x12'	1896
City of Benton Harbor	Inclined Comp.	38-55-55x78	4	Scotch	12'10"x13'6"	1904
		96				
City of Buffalo	Comp.	52-80x144	6	Scotch	12'6"x12'	1895
City of Chatham (Can.)						
City of Cheboygan	F. & A.	20-38x24	1	Fire Box	9'6"x15'	1890
City of Cleveland	Inclined Comp.	54-82-82x96	8	Scotch	13'9"x11'6"	1907
		96				
City of Detroit	Beam Cond.	44-68x144	4	Scotch	12'x11'3"	1889
City of Detroit 3d						
City of Dresden (Can.)	F. & A.	15-26x18	1	Scotch	8'x12'	1910
		96				
City of Erie	Beam Cond.	54-80x144	6	Scotch	12'6"x11'9"	1898
City of Genoa	Triple Exp.	20-33-54x42	2	Scotch	11'6"x13'	1891

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES			BOILERS		Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
City of Grand Rapids .....	Triple Exp. ....	26-42-51-51x42	6	Scotch . . . . .	12'6"x11'6"	1912
City of Hamilton (Can.) .....	F. & A. ....	22-44x36	2	Scotch . . . . .	10'x11'	1910
City of Kalamazoo . . . . .	F. & A. ....	20-40x30	1	Scotch . . . . .	11'x11'	1893
City of London (Can.) .....	H. P. & C. ....	12x14	1	Scotch . . . . .	5'x7'6"	1885
		88				
City of Mackinac . . . . .	Beam Cond. ....	44-66x132	2	Scotch . . . . .	12'x20'	1893
City of Marquette . . . . .	F. & A. ....	15-30x24	1	Scotch . . . . .	9'4"x10'6"	
City of Meaford (Can.) .....						
City of Montreal (Can.) .....	F. & A. ....	22-44x36	2	Scotch . . . . .	11'x11'6"	1906
City of Mt. Clemens .....	Non Cond. ....	16x18	1	Fire Box . . . . .	6'6"x14'	1884
City of Naples . . . . .	Triple Exp. ....	20-33-55x42	2	Scotch . . . . .	11'6"x13'	1891
City of New York (Can.) .....	H. P. N. C. ....	24x36	1	Fire Box . . . . .	10'x14'	1889
City of Ottawa (Can.) .....	F. & A. ....	22-24x36	2	Scotch . . . . .	11'x11'6"	1907
City of St. Ignace .....	Beam Cond. ....	66x144	4	Scotch . . . . .	12'x11'	
City of St. Joseph .....	Comp. Cond. ....	36-54x80	2	Fire Box . . . . .	14'x11'	1890
City of So. Haven .....	Triple Exp. ....	23-37-63½x40	6	Water Tube . . . . .	10'x10'	1903
City of the Straits .....	Beam Cond. ....	62x132	3	Fire Box . . . . .	12'x18'6"	1878
City of Toledo . . . . .	Triple Exp. ....	26-42-66x72	2	Scotch . . . . .	11'8"x21'7"	1891
City of Traverse . . . . .	Steeple Comp. ....	24-44x56	2	Fire Box . . . . .	6'6"x17'	1871
Clark Brothers (Can.) .....	H. P. N. C. ....	9x9	1	Fire Box . . . . .	4'x7'	1892
Clarke, E. A. S. ....	Quad. Exp. ....	18½-28½-43½-66x42	2	Water Tube . . . . .	11'6"x12'2"	1907
Clement, Stephen M. ....	Triple Exp. ....	22½-36-60x42	2	Scotch . . . . .	13'9"x11'6"	1905
Clemson, D. M. ....	Triple Exp. ....	24½-42-65x42	3	Scotch . . . . .	13'6"x11'	1916
Clinton . . . . .						
Codorus . . . . .	Triple Exp. ....	20-33-54x43	2	Scotch . . . . .	14'x12'	1892
Coffinberry, H. D. ....	Steeple Dble. ....	16-32x36	1	Fire Box . . . . .	10'x16'	1892
Colborn, A. R. ....	Steeple Comp. ....	14-32x22	1	Fire Box . . . . .	8'x12'	1892
Cole, Thomas F. ....	Triple Exp. ....	24-38-65x42	2	Scotch . . . . .	16'x11'9"	1907
Colin, W. (Can.) .....	F. & A. ....	28-58x42	2	Fire Box . . . . .	8'x16'	1881
Collingwood (Can.) .....	Triple Exp. ....	21-33½-57x42	2	Scotch . . . . .	14'x12'	1907
Colins, E. C. ....	Triple Exp. ....	22-35-58x40	2	Scotch . . . . .	13'2"x11'6"	1904
Colonel . . . . .	Triple Exp. ....	18-29-48x40	3	Scotch . . . . .	11'6"x11'	1901
Columbia . . . . .	H. P. N. C. ....	20x22	1	Fire Box . . . . .	7'6"x14'	1892
Columbia . . . . .	F. & A. ....	21-50x36	1	Scotch . . . . .	12'x12'6"	1889
Columbia . . . . .	Triple Exp. ....	21½-34-54x36	2	Scotch . . . . .	12'x13'2"	1902
Columbus . . . . .	F. & A. ....	27-50x40	2	Fire Box . . . . .	9'x16'	1881

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES			BOILERS		Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Columbus, Christopher	Triple Exp.	28-42-70x42	6	Scotch	11'2"x12'	1892
Commadore	Steeple Dble.	22-44x36	2	Fire Box	8'6"x18'	1875
Compton (Can.)	F. & A.	27-47x40	1	Fire Box	9'6"x15'6"	1882
Conemaugh	Quad. Exp.	19-27½-40-58x32	3	Scotch	11'6"x11'6"	1909
Conestoga	Steeple Comp.	24-48x48	1	Scotch	13'x11'	1886
Conger Coal (Can.)	Steeple Comp.	17-34x32	1	Fire Box	9'x16'	1882
Conger, O. D.	H. P. N. C.	24½x30	1	Fire Box	7'4"x12'	1902
Conneaut	Quad. Exp.	19½-28¼-41-60x42	2	Scotch	14'9"x12'	1916
Cooke, Delos W.	Triple Exp.	22-38-64x42	2	Scotch	13'9"x11'4"	1913
Coralia	Triple Exp.	22-39-63x42	2	Scotch	14'6"x11'6"	1908
Corey, Wm. E.	Triple Exp.	24-39-65x42	2	Scotch	15'4½"x11'6"	1905
Corisca	Triple Exp.	22-38-61x42	2	Scotch	13'4"x11'9"	1898
Cornelius, A. E.	Triple Exp.	21-34½-57x42	2	Scotch	13'x11'6"	1908
Cornell	Quad. Exp.	16-26¾-41-63x42	2	Water Tube	11'4"x10'	1900
Cornwall (Can.)	Beam Cond.	45x120	2	Fire Box	8'6"x19'	
Corona (Can.)	Inclined Comp.	57-85x66	6		8'9"x17'	1888
Cort, Henry	Triple Exp.	23-37-62x42	2	Scotch	11'x13'9"	1911
Corunna (Can.)	Triple Exp.	17-27-44x44	1	Scotch		1891
Corvus	Triple Exp.	22-35-58x42	2	Scotch	13'2"x11'6"	1903
Coulby, Harry	Triple Exp.	24-39-65x42	2	Scotch	15'4"x11'6"	1906
Cowan, Wm. P.	Triple Exp.	25½-41-67x42	3	Scotch	14'x11'	1918
Cowle, John B.	Triple Exp.	23½-38-63x42	2	Scotch	15'4"x11'6"	1910
Craig, Geo. L.	Triple Exp.	21-34-58x40	3	Scotch	11'6"x11'6"	1902
Cranage, Thos.	Triple Exp.	20-33-54x42	2	Scotch	14'4"x12'	1893
Crawford, G. G.	Triple Exp.	22¼-37½-65x42	2	Scotch	15'4½"x11'6"	1907
Crawford, W. D.	Triple Exp.	23½-38-63x42	2	Scotch	15'4"x11'6"	1914
Cream City	Steeple Comp.	21-32x36	1	Fire Box	9'x14'	1884
Crescent City	Quad. Exp.	17-24½-35-58x42	2	Water Tube	12'6"x8'	1897
Crete	Triple Exp.	22½-36-60x42	2	Scotch	14'6"x11'6"	1907
Croft, Harry W.	Quad. Exp.	20-29-42-61x42	3	Scotch	12'6"x10'3"	1908
Crosby, E. G.	F. & A.	27-44x42	2	Scotch	10'x10'6"	1899
Crowe, Geo. R. (Can.)	Triple Exp.	18-29½-48x36	2	Scotch	13'9"x10'6"	1907
Culligan	F. & A.	25-50x40	2	Fire Box	9'6"x16'	1883
Curry, S. S.	Triple Exp.	19-31-52x44	2	Water Tube	12'x10'	1902
Cygnus	Triple Exp.	22-35-58x42	2	Scotch	13'2"x11'6"	1903

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES		BOILERS		Year Built	
	Type	Cylinders and Stroke	No.	Type		Size
Dahlke, H. ....	F. & A. ....	16-34x26	1	Scotch . . . . .	11'6"x13'	1907
Dahlia . . . . .						
Dalhousie City (Can.) . . . . .	Triple Exp. ....	18-29-48x30	2	Scotch . . . . .	13'6"x10'6"	1911
Dalton, H. G. ....	Triple Exp. ....	24½-42-65x42	3	Scotch . . . . .	13'6"x11'	1916
Davidson, J. E. ....	Quad. Exp. ....	18-27-40-62x42	2	Water Tube ....	9'2"x13'4"	1905
Davidson, Louis R. ....	Triple Exp. ....	23-37-63x42	2	Scotch . . . . .	15'x11'6"	1912
Davidson, Thomas . . . . .	Triple Exp. ....	20-33-54x42	2	Scotch . . . . .	11'x12'	1888
Davock, W. B. ....	Triple Exp. ....	21-34½-57x42	2	Scotch . . . . .	13'x12'	1907
Dawson, Sir Trevor . . . . .	Triple Exp. ....	24-38-65x42	2	Scotch . . . . .	16'x12'2"	1911
Desmond . . . . .	Steeple Comp. ....	16-32x30	1	Marine . . . . .	8'x12'	1892
Delaware . . . . .	Quad. Exp. ....	19-27-40-58x42	2	Scotch . . . . .	13'9"x11'6"	1905
Denmark . . . . .	Triple Exp. ....	22½-36-60x42	2	Scotch . . . . .	14'6"x11'6"	1909
Derbyshire, Senator (Can.) . . . . .	Steeple Comp. ....	21-42x30	1	Scotch . . . . .	12'x12'	1890
Detroit . . . . .	F. & A. 4 Eng. ....	24-48x33	6	Scotch . . . . .	13x11'3"-2-22'	1904
Dewar, J. D. ....	Steeple Comp. ....	12-24x18				
Dickson, W. B. ....	Triple Exp. ....	24-38-65x42	2	Scotch . . . . .	16'x11'9"	1910
Dimmick, J. K. ....	Triple Exp. ....	22-35-58x42	2	Scotch . . . . .	13'9"x11'6"	1909
Dinkey, Alva C. ....	Triple Exp. ....	24-39-65x42	2	Scotch . . . . .	16'x11'6"	1909
Donaldson, J. A. ....	Triple Exp. ....	22-33-55x40	2	Scotch . . . . .	13'9"x12'	1908
Donaldson, J. P. ....	Steeple Comp. ....	20-40x30	1	Fire Box . . . . .	8'6"x17'	1880
Donner, W. H. ....	Triple Exp. ....	23½-32-63x42	2	Scotch . . . . .	14'6"x11'6"	1915
Doric (Can.) . . . . .	Triple Exp. ....	17-28-46x32	2	Scotch . . . . .	12'x11'6"	1903
Dormer, Grace . . . . .	H. P. N. C. ....	13x13	1	Fire Box . . . . .	5'x9'	1889
Douglas . . . . .	H. P. N. C. ....	20x22	1	Fire Box . . . . .	6'8"x14'6"	1882
Doville, R. E. ....	Tandem Comp. ....	12-24x18	2	Fire Box . . . . .	11'x10'	1902
Dronning, Maud (Norw.) . . . . .	Triple Exp. ....	16-25½-43x30				
Drummond, T. J. (Can.) . . . . .	Triple Exp. ....	20½-33-54x36	2	Scotch . . . . .	14'x10'6"	1910
Duchess of York . . . . .						
Duluth . . . . .	Quad. Exp. ....	20¾-30-43½-63x42	3	Scotch . . . . .	12'6"x11'6"	1903
Dundee (Can.) . . . . .	Triple Exp. ....	17½-33-54x36	2	Scotch . . . . .	11'x15'	1906
Dunham, J. S. ....	Triple Exp. ....	22-35-58x40	2	Scotch . . . . .	13'9"x11'6"	1906
Dunn, John, Jr. ....	Quad. Exp. ....	20-29-42-61x42	3	Scotch . . . . .	12'6"x11'10"	1907
Durstun, J. F. ....	Triple Exp. ....	23½-38-63x42	2	Scotch . . . . .	13'9"x11'6"	1908
Dwyer, W. H. (Can.) . . . . .	Triple Exp. ....	17-28½-46x33	2	Scotch . . . . .	12'x11'	1913
Eads, J. B. ....	Triple Exp. ....	22-39-63x42	2	Scotch . . . . .	15'4"x11'6"	1915

ENGINES AND BOILERS—Continued

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Earling, E. J. ....	Triple Exp. ....	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1906
Eastern States . . . . .	3 Inclined Comp. . .	52-72-72x84	6	Scotch . . . . .	13'6"x11'9"	1902
Eastland . . . . .	2 Triple Exp. ....	21-34-56x30	4	Scotch . . . . .	13'6"x12'6"	1903
Easton (Can.) . . . . .	Triple Exp. ....	17-28-46x33	2	Scotch . . . . .	12'x11'	1912
Eaton, George L. . . . .						
Easton . . . . .	F. & A. ....	17½x38	1	Scotch . . . . .	13'x12'	1906
Eddy, C. A. . . . .	Triple Exp. ....	20-32-54x42	2	Scotch . . . . .	12'x11'	1889
Eddy, J. F. . . . .	F. & A. ....	25-48x40	2	Fire Box . . . . .	9'6"x14'	1886
Eddy, Selwyn . . . . .	Triple Exp. ....	22-35-56x44	2	Scotch . . . . .	14'2"x11'6"	1892
Edenborn, Wm. . . . .	Quad. Exp. ....	16½-25-38½-60x40	2	Water Tube . . . .	12'x11'	1900
Edmonton (Can.) . . . .	Triple Exp. ....	17-28-46x33	2	Scotch . . . . .	11'x10'6"	1906
Edwards, Wm. . . . .	F. & A. ....	27-50x42	1	Scotch . . . . .	14'x13'	1907
Egan, Wiley M. . . . .	F. & A. ....	25½-50x40	2	Fire Box . . . . .	8'6"x16'	1887
Elba . . . . .	Triple Exp. ....	22-35-58x42	2	Scotch . . . . .	13'9"x11'6"	1907
Elphicke, M. C. . . . .	Triple Exp. ....	23-38-64x42	2	Scotch . . . . .	13'x13'	1901
Ellen . . . . .	H. P. N. C. . . . .	18x24	1	Fire Box . . . . .	7'x12'	1893
Elva . . . . .	F. & A. ....	10-18x12	1	Scotch . . . . .	6'x8'	1889
Ellwood, I. L. . . . .	Quad. Exp. ....	16½-25-38½-60x40	2	Water Tube . . . .	12'x11'	1900
Emerald (Can.) . . . . .						
Emperor (Can.) . . . . .	Triple Exp. ....	23-38½-63x42	2	Scotch . . . . .	15'6"x12'	1910
Empire City . . . . .	Quad. Exp. ....	17-26-39-60x40	2	Water Tube . . . .	12'6"x8'	1897
Empress (Can.) . . . . .						
Empress of Ft. William (Can.) . . . . .	Triple Exp. ....	20½-33-54x36	2	Scotch . . . . .	13'6"x10'6"	1908
England, R. W. . . . .	Triple Exp. ....	18-28-2-36x32*	2	Scotch . . . . .	12'x12'	1904
Ericsson, John . . . . .	Triple Exp. ....	22½-36-60x42	2	Scotch . . . . .	14'6"x11'6"	1914
Excelsior . . . . .	H. P. N. C. . . . .	22x24	1	Fire Box . . . . .	8'x18'	1876
Essex . . . . .	H. P. . . . .	20-20x24	1	Scotch . . . . .	12'6"x11'	1913
Fairbairn, Sir Wm. . . . .	Triple Exp. ....	24-38-64x42	2	Scotch . . . . .	14'6"x12'	1896
Fairfax (Can.) . . . . .	F. & A. ....	21½-46x42	1	Fire Box . . . . .	11'6"x15'	1890
Farrell, James A. . . . .	Triple Exp. ....	24-39-38-65x42	2	Scotch . . . . .	16'x11'9"	1912
Faustin . . . . .	Steeple Comp. . . . .	12-21x16	1	Fire Box . . . . .	6'x10'	
Fellowcraft . . . . .	F. & A. ....	22-50x48	2	Scotch . . . . .	11'6"x13'	1893
Filbert, Wm. J. . . . .	Triple Exp. ....	24¼-37½-65x42	2	Scotch . . . . .	15'x11'6"	1907
Filgate (Can.) . . . . .						
Fisher, Erwin L. . . . .	Triple Exp. ....	17¼-27½-43x30	2	Scotch . . . . .	11'x11'	1910

\*Ex. V. H. Ketchum

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES		BOILERS		Year Built	
	Type	Cylinders and Stroke	No.	Type		Size
Fitch, Wm. F. ....	Triple Exp. ....	22-35-58x42	2	Scotch . ....	13'2"x11'6"	1902
Fitzgerald, R. P. ....	F. & A. ....	28-48x42	2	Fire Box . ....	9'6"x14'	1837
Fitzgerald, W. E. ....	Triple Exp. ....	22-35-58x40	2	Scotch . ....	13'9"x11'6"	1906
Flagg, G. A. ....	Triple Exp. ....	20-33-54x40	2	Scotch . ....	13'2"x11'6"	1901
Fleetwood . ....	Triple Exp. ....	19-30-54x40	2	Scotch . ....	10'x11'	1887
Fletcher, F. W. ....	F. & A. ....	20-40x36	1	Fire Box . ....	9'6"x15'	1891
Flora . ....	Beam N. C. ....	48x9	2	Fire Box . ....	10'x12'6"	1888
Follette, James W. ....	F. & A. ....	27-44x40	1	Fire Box . ....	10'x16'	1907
Ford, Emory L. ....						
Ford, J. C. ....	F. & A. ....	19-36x30	1	Scotch . ....	13'x13'	1895
Fordonian (Can.) ....	Carels Deisel . ....	18½x32¼	1	Donkey . ....	10'x10'	1912
Foster, Parks . ....	F. & A. ....	25-50x42	2	Fire Box . ....	9'6"x14'	1908
Foster, I. N. ....	Steeple Comp. ....	20¾-36x28	1	Fire Box . ....	9'x14'	1872
Franz, W. C. (Can.) ....	Triple Exp. ....	22-35-58x42	2	Scotch . ....	13'2"x11'6"	1901
French, G. Watson . ....	Triple Exp. ....	20-33½-55x40	2	Scotch . ....	12'6"x11'6"	1903
Frick, H. C. ....	Triple Exp. ....	24-39-65x42	2	Scotch . ....	15'4"x11'6"	1905
Frontenac . ....	Triple Exp. ....	17½-31-52x40	2	Scotch . ....	11'6"x11'6"	1910
Fryer, R. L. (Can.) ....	Triple Exp. ....	19-32-50x40	2	Scotch . ....	12'6"x12' *	1893
					10'x11'	1888
Fulton, Robt. ....	Triple Exp. ....	24-38-64x42	2	Scotch . ....	14'6"x12'	1896
Garden City (Can.) ....	Inclined Comp. ....	28-54x48	2	Fire Box . ....	9'x14'	1892
Gargantua (Can.) ....	F. & A. ....	27-44x40	1	Fire Box . ....	9'9"x16'	1882
Garland . ....	H. P. N. C. ....	20x22	1	Fire Box . ....	8'x17'	1880
Gary, E. H. ....	Triple Exp. ....	24-39-65x42	2	Scotch . ....	15'4"x11'6"	1905
Garretson, General . ....	Triple Exp. ....	22½-36-60x42	2	Scotch . ....	13'9"x11'6"	1907
Gates, John W. ....	Quad. Exp. ....	16½-25-38½-60x40	2	Water Tube . . . .	12'x11'	1900
Gayley, James . ....	Triple Exp. ....	22-35-58x40	2	Scotch . ....	13'2"x11'6"	1902
Georgia . ....	F. & A. ....	21-44x36	1	Fire Box . ....	11'x14'	1891
Georgetown . ....	Triple Exp. ....	20-33-54x40	2	Scotch . ....	11'6"x12'6"	1900
German . ....	Triple Exp. ....	22-38-61x42	2	Scotch . ....	14'x12'6"	1891
Germanic (Can.) . ....	2 Steeple . ....	17-28x21	1	Fire Box . ....	10'1"x12'6"	1883
Geronia (Can.) . ....	Quad. Exp. ....	22½-18-26-40x18	2	Scotch . ....	12'6"x11'	1911
Gettysburg . ....	F. & A. ....	26-44x40	1	Scotch . ....	13'x13'	1896
Gill, Alice M. ....	H. P. N. C. ....	22x26	1	Scotch . ....	9'6"x11'3"	1910
Gladstone . ....	Triple Exp. ....	20½-32-54x42	2	Scotch . ....	11'x12'	1888



**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES			BOILERS		Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Glenellah (Can.)	Triple Exp.	19½-33-54x36	2	Scotch	14'6"x11'	1905
Glenfinnan (Can.)	Triple Exp.	24-38-62x42	2	Scotch	13'6"x12'6"	1893
Glenfoyle (Can.)	Triple Exp.	16-36-44x30	2	Scotch	12'6"x10'	1913
Glengarry (Can.)	Steeple Comp.	21-34x32		Fire Box	10'x14'	1888
Glenlivet (Can.)	Triple Exp.	17-29-47x36	2	Scotch	11'x12'	1890
Glenn	Steeple Comp.	14-28x20	2	Fire Box	7'x12'	1898
Glenmavis (Can.)	Triple Exp.	16-26-44x30	2	Scotch	12'6"x10'	1913
Glenmount (Can.)	Triple Exp.	19-30-52x4	2	Scotch	11'x11'	1887
Glenshee (Can.)	Triple Exp.	22½-36-60x42	2	Scotch	15'x12'	1915
Glenlyon (Can.)	Triple Exp.	20-32-54x42	2	Scotch	13'9"x11'6"	1908
Gogebic	Triple Exp.	20-32-52x40	2	Scotch	10'x11'	1887
Goodyear, F. H.						
Gordan, D. A. (Can.)	Triple Exp.	18-30-50x36	2	Scotch		
Goudrean	Triple Exp.	24-38-61x42	2	Scotch	11'6"x14'	1889
Goulder, H. D.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1906
Gowan, A. Y.	H. P. N. C.	18x20	1	Fire Box	6'9"x12'6"	1888
Graham, Geo. A. (Can.)	Triple Exp.	24-38-61x42	2	Scotch	14'x12'6"	1891
Grammer, G. J.	Triple Exp.	20-33½-55x40	2	Scotch	12'10"x13'	1902
Grand Haven	2 Triple Exp.	22-36-61x36	8	Scotch	11'6"x11'6"	1903
Grand Island	Quad. Exp.	15-23-36-55x40	2	Scotch	12'6"x11'9"	1905
Great Western	2 Horiz. Cond.	45x108	4	Scotch	9'6"x14'	1888
Green, C. H.	F. & A.	22-44x40	1	Scotch	13'x13'	1894
Greene, M. T.	F. & A.	20-36x36	1	Fire Box	9'x15'	1887
Greyhound	Beam Cond.	60x144	3	Scotch	1-12'x11'7"	1902
					15'6"x12'6"	1886
Griffin	Triple Exp.	17-29-47x36	2	Scotch	11'x12'	1891
Grimsby (Can.)						
Groh, Mary	H. P. N. C.	18x20	1	Fire Box	6'6"x13'	1873
Gunnell, E.	F. & A.	16-34x26	1	Scotch	12'6"x13'	1912
Hagerty, J. H. G. (Can.)	Triple Exp.	24-40-66x42	3	Scotch	13'x11'	1914
Haddington	Triple Exp.	15-25-42x30	2	Scotch	10'x11'	1904
Hall (Can.)						
Hall, H. B.	Steeple Comp.	23½-48x36	1	Scotch	13'4"x11'9"	1899
Hall, S. C.	Steeple Comp.	20-37x28	1	Fire Box	9'x16'	1894

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES			BOILERS		Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Harriet B. ....	2 F. & A. ....	28-52x36	4	Scotch . . . . .	12'x12'	1895
Hamilton (Can.) .....	Triple Exp. ....	18-29-48x40	2	Scotch . . . . .	11'6"x11'6"	1912
Hamiltonian (Can.) .....	Quad. Exp. ....	24-35-52-80x42	6	Scotch . . . . .	12'6"x11'	1909
Hamonic (Can.) .....	H. P. N. C. ....	11x12	1	Scotch . . . . .	5'6"x6'6"	1882
Hanlan, John (Can.) .....	Triple Exp. ....	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1906
Hanna, D. R. ....	Triple Exp. ....	23½-38-63x42	2	Scotch . . . . .	15'4"x11'6"	1914
Hanna, Jr., H. M. ....	Triple Exp. ....	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1905
Hanna, L. C. ....	Steeple Comp. ....	16-32x26	1	Fire Box . . . . .	7'6"x14'	1890
Harlow . . . . .	F. & A. ....	16-36x30	1	Fire Box . . . . .	7'6"x14'	1890
Hart, Eugene C. ....	Triple Exp. ....	22-35-58x40	2	Scotch . . . . .	13'2"x11'6"	1902
Hart, Frank W. ....	Quad. Exp. ....	16-26¾-41-63x42	2	Water Tube ....		1900
Harvard . . . . .	Triple Exp. ....	23½-38-63x42	2	Scotch . . . . .	15'4"x11'6"	1911
Harvester, The .....	Triple Exp. ....	22-35-58x42	2	Scotch . . . . .	13'2"x11'6"	1904
Harvey, A. F. ....	F. & A. ....	16-34x26	1	Scotch . . . . .	11'6"x13'	1910
Hausler, M. G. ....	Steeple Comp. ....	20-48x36	1	Scotch . . . . .	12'x14'	1881
Havey, H. R. ....	H. P. N. C. ....	24x60	1	Fire Box . . . . .	7'x14'	1876
Hayes, R. B. ....	N. C. ....	18x20	1	Fire Box . . . . .	6'6"x16'	1886
Hayward, A. D. ....	Triple Exp. ....	22½-36-60x42	2	Scotch . . . . .	13'9"x12'	1910
Hazard, F. R. ....	Steeple Comp. ....	20-40x30	1	Scotch . . . . .	12'x11'	1890
Hazard, W. A. ....	H. P. N. C. ....	16x18	1	Fire Box . . . . .	5'6"x12'	1879
Hazel . . . . .	Triple Exp. ....	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1906
Hebard, C. S. ....	F. & A. ....	24-44x42	2	Fire Box . . . . .	8'6"x14'	1889
Hebron (Can.) .....	Steeple Comp. ....	13-27x18	1	Scotch . . . . .	11'x11'5"	1913
Hecla . . . . .	Triple Exp. ....	20-32-54x42	2	Scotch . . . . .	11'6"x12'	1888
Heiden, Charles .....	F. & A. ....	18-44x36	1	Scotch . . . . .	13'x12'	1901
Helena . . . . .	Triple Exp. ....	22-35-58x42	2	Scotch . . . . .	13'9"x11'6"	1907
Helen C. ....	Steeple Comp. ....	20-36x30	2	Fire Box . . . . .	6'6"x13'	1888
Hemlock . . . . .	F. & A. ....	22-42x40				
Hennipin . . . . .	H. P. N. C. ....	18x20	1	Fire Box . . . . .	6'6"x12'	1893
Hettler, H. H. ....	Comp. . . . .	11-24x22	1	Water Tube ....		1909
Hiawatha (Can.) .....	Steeple Comp. ....	16-34x30	1	Scotch . . . . .	11'6"x12'	1910
Hickley . . . . .	Quad. Exp. ....	16½-25-38½-60x40	2	Water Tube ....	12'x11'	1900
Hill, Flora M. ....	H. P. N. C. ....	18½x20	1	Fire Box . . . . .	6'6"x14'	1889
Hill, James J. ....	F. & A. ....	24-48x40	1	Fire Box . . . . .	12'x15'	1894
Hill, L. W. ....						
Hilton . . . . .						
Hines, L. Edward .....						

ENGINES AND BOILERS—Continued

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Holcomb, R. T. (Can.)	F. & A.	15-26x32	1	Scotch	10'x11'6"	
Holland	Cond.	53x144	2	Fire Box	11'6"x18'	1881
Holland, Robt.	Steeple Comp.	21-37x32	1	Fire Box	9'x14'	1886
Honduras	Triple Exp.	19-30-52x40	2	Scotch	11'x11'	1908
Hoover & Mason	Quad. Exp.	18-27-40-63x42	3	Scotch	11'6"x11'6"	1911
Horn, Charles	Steeple Comp.	20-30x36	1	Scotch	12'6"x12'	1896
Houghton, Douglass	Quad. Exp.	18½-26½-39-56x42	2	Scotch	11'6"x14'	1910
House, F. E.	Triple Exp.	22¼-37½-65x42	2	Scotch	15'4"x11'6"	1907
Howard, W. (Can.)	F. & A.	24-48x40	1	Fire Box	10'6"x16'	1891
Hoyt, James H.	Triple Exp.	17-31-55x40	2	Water Tube	12'x10'	1902
Hubbard, C. Russell	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1906
Hubbard, Chas.	Quad. Exp.	16½-24-35-50x42	2	Scotch	12'6"x12'	1907
Huron	Quad. Exp.	19½-28¼-41-60x42	2	Scotch	14'9"x12'	1914
Huron	Beam Cond.	46½x120	1	Fire Box	13'6"x17'	1885
Huron	Triple Exp.	18½-31-51x36	1	Scotch	14'6"x11'6"	1898
Huron (Can.)	2 H. P. N. C.	30x30	2	Scotch	10'10"x12"	1913
Huronic (Can.)	Triple Exp.	26-42-70x42	4	Scotch	12'6"x12'	1902
Huron City	Steeple Comp.	18-38x28	1	Fire Box	9'x15'	1888
Hutchinson, J. T.	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1901
Hydro	F. & A.	18-38x30	1	Scotch	1'x12' "	'9
Hydrus	Triple Exp.	21-33-57x42	2	Scotch	12'6"x12'	1899
Ida E. (Can.)	H. P. N. C.	18x20	1	Fire Box	7'x17'	1877
Idlewild	Beam Cond.	32x120	1	Fire Box	9'6"x15'9"	1893
Imperial (Can.)	Triple Exp.	17-26-45x30	2	Scotch	11'x	1898
Impoco (Can.)	Triple Exp.	19-32-53x36				
India (Can.)	Triple Exp.	18-30-48x30	2	Scotch	11'4"x12'	
Indus	Triple Exp.	22-35-58x42	2	Scotch	13'2"x11'6"	1901
Inland (Can.)	Triple Exp.	20-33-5x40	2	Scotch	12'4"x12'5"	1894
Iocolite (Can.)	Triple Exp.	16-26-44x36	1	Scotch		1916
Iona (Can.)	Steeple Comp.	14-28x24	1	Fire Box		1905
Ionic (Can.)	2 Steeple Comp.	20-40x36	2	Fire Box	8'6"x15'	1888
Illinois	Triple Exp.	20-32-54x36	2	Scotch	13'2"x11'6"	1909
Indiana	F. & A.	22½-48x36	2	Scotch	11'6"x12'6"	1915
International (Can.)	Inclined N. C.	22x20	2	Locomotive	5'x18'	1878

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
International (Can.)	2 H. P. N. C.	30x30	2	Fire Box	8'x20'	1872
Ireland, R. L.	Triple Exp.	23-38-63x42	2	Scotch	14'6"x11'6"	1914
Iroquois	Triple Exp.	17-28-46x36	2	Scotch	12'x11'6"	1902
Iselin, Adrian	Triple Exp.	18-29-48x40	2	Scotch	12'x11'6"	1914
Ishpeming	Triple Exp.	23-37-63x42	2	Scotch	15'x11'6"	1906
Island Queen (Can.)	H. P. N. C.	9x12	1	Fire Box	4'x6'	1890
Islander	Triple Exp.	11-18-29x18	1	Scotch	10'x11'	1895
Italia	F. & A.	21-45x40*	2	Scotch	12'x11'6"	1889
Jacob, C. W.	Triple Exp.	20-33-54x42	2	Scotch	10'8"x13'	1891
James, H. R. (Can.)	F. & A.	28-52x40	2	Scotch	12'x11'	1890
Jaques, C. A. (Can.)	Triple Exp.	18-30-48x36	2	Scotch	12'6"x11'	1910
Jenkins, C. O.	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1907
Jex, H. N. (Can.)	Steeple Comp.	18-38x36	1	Scotch	11'x12'	1901
Jones, B. F.	Triple Exp.	23-37-63x42	2	Scotch	15'x12'	1906
Jones, F. P.	Triple Exp.	18-29-48x40	2	Scotch	12'x11'6"	1913
Jones, Harry R.	Quad. Exp.	15-23¾-36-56x40	2	Water Tube	13'6"x12'2"	1903
Joyland (Can.)	F. & A.	27-44x42	2	Fire Box	7'6"x15'6"	1907
Juniata	Quad. Exp.	22-31½-45-65x42	4	Scotch	12'6"x11'6"	1905
Juno (Can.)	Steeple Comp.	15-24½x30	1	Fire Box	6'6"x12'3"	1885
Jupiter	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1901
Kalkaska	F. & A.	24-44x36	1	Fire Box	9'x13'8"	1901
Kaministiquia (Can.)	Triple Exp.	20½-33-54x36	2	Scotch	13'6"x10'6"	1909
Kansas	F. & A.	19-46x36	2	Fire Box	8'3"x14'	1892
Kearsarge	Triple Exp.	23-38-62x40	2	Scotch	14'x13'	1909
Keenora (Can.)	2 Comp.	10-22x14				
Keewatin (Can.)	Quad. Exp.	23½-34-48½-70x45	4	Scotch	14'10"x11'	1907
Keewatin (Can.)						
Kelley Island	F. & A. Comp	20-40x30	1	Scotch	14'x11'6"	1914
Kendall, H. J.	Steeple Comp.	15-30x28	1	Fire Box	8'x13'	1892
Kennedy, Hugh	Triple Exp.	23½-38-63x42	2	Scotch	15'x11'6"	1907
Kenora (Can.)	Triple Exp.	17-28-46x33	2	Scotch	12'x11'	1907
Kensington	Triple Exp.	20-32½-55x40	2	Scotch	12'6"x12'	1903
Ketchum, J. B., 2d	Steeple Comp.	22-42x32	1	Scotch	12'x14'	1908
Keybell (Can.)	Triple Exp.	16-27-46x36	2	Scotch	10'6"x11'9"	1912

\*Ex. Str. Progress

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Keynor (Can.)	Triple Exp.	15-25-42x30	2	Scotch	10'6"x11'6"	1914
Key Port (Can.)	Triple Exp.	16-26-43x36	2	Scotch	10'x10'6"	1909
Keyvive (Can.)	Triple Exp.	16-26-43x33	2	Scotch	11'6"x10'6"	1913
Key West (Can.)	Triple Exp.	15-25-42x30	2	Scotch	10'x10'6"	1909
King, Geo.	Steeple Comp.	22-40x32	1	Fire Box	9'x16'	1888
King, W. L.	Triple Exp.	24-38-65x42	2	Scotch	16'x12'2"	1910
Kingston (Can.)	Triple Exp.	28-44-74x72	4	Scotch	11'x11'6"	1901
Kinmount (Can.)	Triple Exp.	18-30-48x33	2	Scotch	12'6"x11'	1908
Kirby, F. E.	Beam Cond.	48x108	2	Fire Box	9'x24'6"	1890
Kopp, Jacob T.	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x12'	1907
Kotcher, C. W.	Triple Exp.	22-35-58x42	2	Scotch	13'9"x11'6"	1907
La Belle	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1909
La Salle	Triple Exp.	17-29-47x36	2	Scotch	11'x12'	1890
Lackawanna	Triple Exp.	19-30-54x40	2	Scotch	11'6"x11'	1888
Lagonda	Triple Exp.	19-31-52x44	2	Scotch	12'6"x12'	1896
Lakeland	Triple Exp.	24-38-61x42	2	Scotch	12'x14'	1887
Lakeport	2 Steeple Comp.	20-40x42	2	Fire Box	9'6"x15'6"	1898
Laketon	Triple Exp.	20-33½-55x42	2	Scotch	13'2"x11'6"	1903
Lakeside (Can.)	F. & A.	19-32x26	1	Fire Box	8'6"x14'	1888
Lakeside	F. & A.	20-42x24	2	Water Tube	9'9"x9'	1901
Lakewood	F. & A.	28-48½x48	1	Scotch	16'x13'	1894
Lake Michigan (Can.)	Steeple Comp.	20-34x34	1	Scotch	10'6"x10'6"	1896
Landbo (Can.)	Triple Exp.	20-32-54x42	2	Scotch	12'4"x11'6"	1896
Langell Boys	F. & A.	16-32x30	1	Fire Box	8'6"x13'	1890
Langell, Simon	F. & A.	24-50x36	1	Fire Box	11'x17'	1886
Lansdowne (Can.)	2 Horiz. Cond.	50x108	1	Scotch	9'3"x14'	1885
Lapairie (Can.)						
Laughlin, James	Triple Exp.	23-37-63x42	2	Scotch	15'x12'	1906
Laurier, Sir Wilfrid (Can.)	Triple Exp.	22½-36-60x42	2	Scotch	13'9"x11'6"	1906
Lehigh			1	Scotch	11'6"x13'6"	1900
Leonard, G. B.	Triple Exp.	22½-35-58x40	2	Scotch	13'2"x11'6"	1903
Leopold, N. F.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1908
Lewiston	F. & A.	20-40x36	1	Fire Box	12'x13'	1888
Liberty	H. P. N. C.	16½x18	1	Fire Box	5'8"x11'	1894
Liberty	F. & A.	26½-56x42	1	Fire Box	11'x16'	1890
Lily	H. P. N. C.	14x16	1	Scotch	6'x9'	1889
Linden	F. & A.	22-44x30	1	Fire Box	10'6"x13'	1895

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES			BOILERS		Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Linn, W. R. ....	Quad. Exp. ....	19-27½-40-58x42	2	Scotch . . . . .	14'8"x11'6"	1898
Livingstone . . . . .	Triple Exp. ....	20½-33-55- x42	2	Scotch . . . . .	12'x11'	1889
Livingstone, Wm. . . . .	Triple Exp. ....	24-38-65x42	2	Scotch . . . . .	16'x12'	1908
Lonqueuil (Can.) . . . . .						
Luella . . . . .	H. P. N. C. ....	9x12	1	Scotch . . . . .	4'9"x6'6"	1880
Lupus . . . . .	Triple Exp. ....	22-35-58x42	2	Scotch . . . . .	13'2"x11'6"	1901
Luzon . . . . .	Triple Exp. ....	20-33½-55x40	2	Scotch . . . . .	12'6"x11'6"	1902
Lynch, Thomas . . . . .	Triple Exp. ....	24-39-65x42	2	Scotch . . . . .	16'x11'6"	1907
Lyon, Charles (Can.) . . . . .	2 Comp. ....	22-44x30	4	Scotch . . . . .	11'4"x11'4"	1907
McCcollough, J. C. . . . .	Triple Exp. ....	18-30-48x42	2	Scotch . . . . .	11'x12'	1890
McCullogh, Jr. C. H. . . . .	Quad. Exp. ....	18½-28½-43½-66x42	2	Water Tube . . . . .	11'6"x12'2"	1907
McDougall, Alex. . . . .	Quad. Exp. ....	19-28½-43-66x40	2	Water Tube . . . . .	12'6"x9'2"	1898
McGonagle, W. A. . . . .	Triple Exp. ....	24½-42-65x42	3	Scotch . . . . .	13'6"x11'	1916
McGregor, M. A. . . . .	F. & A. ....	21-42x36	1	Scotch . . . . .	12'6"x12'	1904
McIntosh, H. P. . . . .	Triple Exp. ....	22½-36-60x42	2	Scotch . . . . .	13'9"x11'6"	1907
McKee, J. A. (Can.) . . . . .	Triple Exp. ....	20½-33-54x36	2	Scotch . . . . .	13'6"x10'6"	1908
McKerchey, J. M. . . . .						
McKinstry, A. E. (Can.) . . . . .	Triple Exp. ....	17-28-46x33				
McKinney, Price . . . . .	Triple Exp. ....	22-35-58x40	2	Scotch . . . . .	13'9"x11'6"	1908
McLean, J. H. . . . .	Triple Exp. ....	22-35-58x42	2	Scotch . . . . .	13'2"x11'6"	1902
McLouth, Pierce . . . . .	Steeple Comp. ....	20-48x36	1	Scotch . . . . .	12'x14'	1881
McTier, A. D. . . . .	Triple Exp. ....	18-29-48x40	2	Scotch . . . . .	12'x11'6"	1913
McVittie, Alex. . . . .	F. & A. ....	28-52x40	2	Scotch . . . . .	12'x11'	1890
McVey, Charles . . . . .	H. P. N. C. ....	24x22	1	Fire Box . . . . .	7'x12'	1888
Macassa (Can.) . . . . .	2 Triple Exp. ....	11-18-29x22	1	Scotch . . . . .	12'6"x10'9"	1888
Mackinac . . . . .	Steeple Comp. ....	18-40x30	2	Fire Box . . . . .	6'6"x12'	1909
Mahoning . . . . .	Triple Exp. ....	20-33-54x45	2	Scotch . . . . .	13'9"x12'	1892
Majestic (Can.) . . . . .	F. & A. ....	28-54x36	2	Fire Box . . . . .	10'x13'9"	1894
Major (Can.) . . . . .	Triple Exp. ....	20-32-54x40	2	Scotch . . . . .	11'x12'	1889
Malietoa . . . . .	Quad. Exp. ....	15¾-23¾-36½-56x40	2	Water Tube . . . . .	12'6"x9'3"	1899
Malton (Can.) . . . . .	Triple Exp. ....	15-27-44x40	1	Scotch . . . . .	12'6"x11'6"	1914
Manchester . . . . .	Triple Exp. ....	20-32-54x42	2	Scotch . . . . .	12'x11'	1889
Manistique . . . . .	F. & A. ....	21-37x36	1	Fire Box . . . . .	12'x15'	1887
Manitoba (Can.) . . . . .	F. & A. ....	35-70x48	2	Scotch . . . . .	14'x12'3"	1883

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES			BOILERS		Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Manitou (Can.)	F. & A.	16-32x26	1		13'x8'6"	1903
Manitou	Triple Exp.	23-38-63x36	4	Scotch	11'x12'	1893
Manola	Triple Exp.	24-38-61x42	2	Scotch	14'x12'6"	1890
Mapleton (Can.)	Triple Exp.	17-28-46x33	2	Scotch	12'x11'	1909
Marian W. (Can.)	F. & A.	24-46x40	1	Scotch	12'x12'	
Maricopa	Triple Exp.	25-40-68x42	3	Scotch	13'x13'	1896
Marion	F. & A.	24-44x42	1	Fire Box	15'x12'	1912
Mariposa	Triple Exp.	18½-32½-55x48	2	Scotch	13'4"x11'9"	1900
Mariska (Can.)	Triple Exp.	24-38-61x42	2	Scotch	14'x12'6"	1890
Maritana	Triple Exp.	17¾-39-63x48	2	Scotch	13'4"x11'9"	1900
Markham, G. C.	H. P. N. C.	24½x30	1	Fire Box	7'6"x14'	1890
Marquette	Triple Exp.	20-33½-55x42	2	Scotch	12'9"x12'	1906
Marquette & Bessemer No. 1	2 Triple Exp.	17-27½-46x36	1	Scotch	14'6"x11'6"	1904
Marquette & Bessemer No. 2	2 Triple Exp.	19-31-52x36	4	Scotch	13'9"x12'	1910
Mars	Triple Exp.	20½-32½-63x42	3	Scotch	12'6"x12'	1899
Marshall, J. D.	Steeple Comp.	16-32x26	1	Fire Box	8'x12'	1891
Marshall, Maggie	Steeple Comp.	18-36x30	1	Scotch	12'x12'	1911
Marshall, Sam'l (Can.)	F. & A.	23-42x36	1	Scotch	12'x12'6"	1909
Maruba	Triple Exp.	24-38-61x42	2	Scotch	14'x12'6"	1890
Masaba	Triple Exp.	24-38-61x42	2	Scotch	14'x12'6"	1891
Mascott	2 Steeple Comp.	10-18x18	1	Fire Box	7'8"x13'	1885
Martian (Can.)	Triple Exp.	22-33-58x42	2	Scotch	13'2"x11'6"	1901
Mather, Sam'l	Triple Exp.	23-38-63x42	2	Scotch	14'6"x11'6"	1906
Mather, Sam'l	Triple Exp.	20-32-54x42	2	Scotch	13'9"x11'6"	1912
Mather, W. G.	Triple Exp.	24½-39-67x42	2	Scotch	15'6"x12'	1905
Mataffa	Quad. Exp.	15¾-23¾-36½-56x40	2	Water Tube	12'6"x9'3"	1899
Matthews, W. D. (Can.)	Triple Exp.	20-33½-55x40	2	Scotch	14'x12'	1903
Mauch Chunk	Quad. Exp.	20½-30-43½-63x42	3	Scotch	12'6"x11'6"	1901
Maud						
Maunaloa	Quad. Exp.	18-27-40-62x42	2	Water Tube	12'6"x9'2"	1899
Mayflower (Can.)						
Maytham, Thomas	Triple Exp.	19-32-52x45	2	Scotch	12'x12'	1892
Maywood	Triple Exp.	14-22-36x24	1	Scotch	11'6"x12'10"	1905
Meaford	Triple Exp.	20½-33-54x36				1903
Mecosta	Triple Exp.	19-32-52x42	2	Scotch	11'6"x12'	1897
Melbourne	Steeple Comp.	18-36x28	1	Scotch	9'x14'	1892

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES			BOILERS		Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Mercur, Fred .....	F. & A. ....	26-48x42	2	Fire Box .....	15'6"x8'	1909
Miami .....	Steeple Comp. ....	16-30x26	1	Fire Box .....	7'6"x14'	1888
Michigan .....	Triple Exp. ....	23-37-63x42	2	Scotch . ....	15'x11'6"	1905
Michigan .....	2 Horiz. Cond. ....	50x114	4	Scotch . ....	13'3"x14'	1891
Michigan Central .....	2 Dble. Horiz. Cond. ....	28x48	4	Fire Box .....	9'6"x16'	1884
Midland King (Can.) .....	Triple Exp. ....	20-33½-55x40	2	Scotch . ....	14'x12'	1903
Midland Prince (Can.) .....	Triple Exp. ....	23-38½-63x42	2	Scotch . ....	15'6"x12'	1907
Midland Queen (Can.) .....	Triple Exp. ....	18-30-50x				1901
Midvale .....	Triple Exp. ....	24½-40-65x42	3	Scotch . ....	13'6"x11'	1917
Miller, L. B. ....	Triple Exp. ....	23½-38-63x42	2	Scotch . ....	14'6"x11'6"	1910
Miller, P. P. ....	Triple Exp. ....	20-33½-55x40	2	Scotch . ....	14'x12'	1903
Milinokett .....	Triple Exp. ....	23-37-63x42	2	Scotch . ....	15'x11'6"	1907
Mills, D. O. ....	Triple Exp. ....	23-38-65x42	2	Scotch . ....	15'4"x12'	1907
Mills, D. W. ....	Steeple Comp. ....	18*x40	1	Fire Box .....	11'x15'	
Mills, J. E. (Can.) .....	H. P. N. C. ....	16x20	1	Fire Box .....	6'6"x12'	1894
Milwaukee .....	Triple Exp. ....	23-38-64x40	3	Scotch . ....	12'x11'6"	1902
Milwaukee .....	2 Triple Exp. ....	23½-37-62x36	6	Scotch . ....	13'9"x12'	1903
Minch, A. C. ....	Triple Exp. ....	22-35-58x40	3	Scotch . ....	12'x12'	1903
Minch, Phillip .....	Triple Exp. ....	22½-36-60x42	2	Scotch . ....	13'9"x11'6"	1905
Minneapolis .....	Triple Exp. ....	17-29-47x36	2	Scotch . ....	10'6"x12'	1897
Minnesota .....	Triple Exp. ....	23¼-36¼-62x48	4	Scotch . ....	12'x12'	1911
Minnie M. ....	Steeple Comp. ....	15½-30x36	1	Fire Box .....	8'3"x14'	1884
Missouri .....	Triple Exp. ....	20-33-54x36	2	Scotch . ....	13'2"x11'6"	1904
Mitchell, G. A. ....	Steeple Comp. ....	26-50x36	1	Marine . ....	11'6"x16'	1883
Mitchell, Pentecost .....	Triple Exp. ....	22-35-58x40	2	Scotch . ....	13'2"x11'6"	1903
Mitchell, Samuel .....	Triple Exp. ....	20-32-52x42	2	Scotch . ....	14'x12'	1892
Modjeska (Can.) .....	2 Triple Exp. ....	15-24-40x27	4	Navy . ....	7'x16'	1889
Moll, C. F. ....	Triple Exp. ....	22½-36-60x42	2	Scotch . ....	13'9"x11'6"	1909
Montreal (Can.) .....						
Moore, C. W. ....	H. P. N. C. ....	22x24	1	Fire Box .....	7'6"x14'	1886
Moore, J. W. ....	F. & A. ....	26-50x42	2	Fire Box .....	8'6"x14'	1890
Morden, W. Grant (Can.) .....	Triple Exp. ....	24-39-65x42	2	Scotch . ....	16'x11'5"	1914
Morgan, J. P. ....	Triple Exp. ....	24-39-65x42	2	Scotch . ....	15'4"x11'6"	1906



ENGINES AND BOILERS—Continued

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Morgan, J. P., Jr. ....	Triple Exp. ....	24-39-65x42	2	Scotch . . . . .	16'x11'6"	1910
Morley, W. B. ....	F. & A. ....	27-50x40	1	Fire Box . . . . .	11'6"x16'	1892
Morrell, D. J. ....	Triple Exp. ....	24-39-65x42	2	Scotch . . . . .	15'4"x11'6"	1906
Morris, Effingham, B. ....	Triple Exp. ....	23-37-63x42	2	Scotch . . . . .	15'x11'6"	1907
Morrow, Jno. F. ....	F. & A. ....	26-50x42	2	Fire Box . . . . .	11'10"x12'	1890
Morrow, Joe S. ....	Triple Exp. ....	22-35-58x42	2	Scotch . . . . .	13'9"x11'6"	1907
Morse, J. C. ....	Triple Exp. ....	23-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1907
Morse, Sam'l F. B. ....	Quad. Exp. ....	17-25-38½-60x42	2	Water Tube . . . . .	12'x10'	1903
Mueller . . . . .	Steeple Comp. ....	19⅞-38x36	1	Fire Box . . . . .	9'6"x14'	1894
Mulinix Brothers . . . . .						
Mullen, Martin . . . . .	Triple Exp. ....	22-35-58x40	2	Scotch . . . . .	13'9"x11'6"	1904
Muncy . . . . .	Quad. Exp. ....	19-27-40-58x42	3	Scotch . . . . .	11'6"x11'6"	1902
Munida . . . . .	Triple Exp. ....		2	Scotch . . . . .	11'6"x11'	1916
Munising . . . . .	Triple Exp. ....	22-35-58x40	2	Scotch . . . . .	13'2"x11'6"	1902
Murphy, S. J. ....	Triple Exp. ....	22-35-58x42	2	Scotch . . . . .	13'2"x12'	1900
Murray Bay (Can.) . . . . .	Beam Cond. . . . .	60x132	2		14'x21'	
Myron . . . . .	F. & A. ....	23½-42x36	1	Scotch . . . . .	14'x13'	1890
Natironco (Can.) . . . . .	Triple Exp. ....	20-35-54x42	2	Scotch . . . . .	12'x11'6"	1892
Navajo (Can.) . . . . .	H. P. N. C. ....	12x12	1	Fire Box . . . . .	6'x11'	1912
Neebing (Can.) . . . . .	Triple Exp. ....	19-31-52x36				
Neepawah (Can.) . . . . .	Triple Exp. ....	20½-34-56x36	2		14'x10'6"	1903
Neff, Chas. S. ....	F. & A. ....	22-44x30	1	Fire Box . . . . .	11'x12'	1901
Neff, M. C. ....						
Neff, S. O. ....	F. & A. ....	15-26x36	1	Scotch . . . . .	12'6"x11'	1901
Negaunee . . . . .	Triple Exp. ....	22-35-58x40	2	Scotch . . . . .	13'2"x11'6"	1902
Neilson, J. B. ....	Triple Exp. ....	23-37-62x40	2	Scotch . . . . .	14'x11'6"	1912
Neosha . . . . .	F. & A. ....	27-54x48	2	Fire Box . . . . .	10'x16'6"	1888
Neptune . . . . .	Triple Exp. ....	22-35-58x40	2	Scotch . . . . .	13'2"x11'6"	1901
Nessen, N. J. ....	F. & A. ....	19-36x30	1	Scotch . . . . .	12'x12'6"	1909
Nettleton, A. E. ....	Triple Exp. ....	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1908
Nevada . . . . .	Triple Exp. ....	21½-34½-56x36	2	Scotch . . . . .	13'3"x11'	1915
Nevada (Can.) . . . . .	Triple Exp. ....	17-27-44x44	1	Scotch . . . . .		1890
Newbold, Arthur E. ....	Triple Exp. ....	23-37-63x42	2	Scotch . . . . .	15'1"x11'6"	1908
New Island Wanderer . . . . .	F. & A. ....	15-28x24	1	Fire Box . . . . .	7'6"x13'	1888
News Boy . . . . .	F. & A. ....	14-23x18	1	Fire Box . . . . .	6'x11'	1899
Newona (Can.) . . . . .	Triple Exp. ....	20½-33-54x36	2	Scotch . . . . .	10'6"x13'6"	1909

## ENGINES AND BOILERS—Continued

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Niagara . . . . .	Triple Exp. . . . .	17-28-47x36	2	Scotch . . . . .	11'x12'	1897
Niagara (Can.) . . . . .						
Niagara Frontier . . . . .	Dble. N. C. . . . .	20x22	1	Fire Box . . . . .	9'6"x15'6"	1910
Nicaragua . . . . .	Triple Exp. . . . .	16-25-42x32	1	Scotch . . . . .	13'6"x12'	1906
Niko . . . . .	F. & A. . . . .	24-46x40	1	Scotch . . . . .	11'x12'	1889
Nipigon . . . . .	F. & A. . . . .	21-44x40	2	Fire Box . . . . .	6'x11'6"	1909
Norhilda (Can.) . . . . .	Triple Exp. . . . .	17-28-46x33		Scotch . . . . .		1910
Normandie . . . . .	F. & A. . . . .	20-40x30	1	Fire Box . . . . .	9'6"x12'	1894
Noronic (Can.) . . . . .	Triple Exp. . . . .	29½-47½-58x42	4	Scotch . . . . .	15'6"x11'	1913
Norseman (Can.) . . . . .	Steeple Comp. . . . .	22-50x30	2	Scotch . . . . .	9'x12'	1885
North American . . . . .	Quad Exp. . . . .	17½-25-36-52x36	3	Scotch . . . . .	12'7"x12'	1913
North King (Can.) . . . . .	Beam Cond. . . . .	36½x120	2	Locomotive . . . . .	7'6"x22'4"	1897
North Lake . . . . .	Quad. Exp. . . . .	19-27½-40-58x42	3	Scotch . . . . .	11'6"x11'3"	1909
North Land . . . . .	2 Quad. Exp. . . . .	25½-36-51½-74x42	10	Scotch . . . . .	12'6"x11'6"	1902
North Pines . . . . .	Triple Exp. . . . .	24-38-61x42	2	Scotch . . . . .	14'x12'6"	1890
North Sea . . . . .	Quad. Exp. . . . .	19-27½-40-58x42	3	Scotch . . . . .	11'6"x11'3"	1909
North Star . . . . .	Quad. Exp. . . . .	19-27½-40-58x42	3	Scotch . . . . .	11'6"x11'6"	1909
North West . . . . .	2 Quad. Exp. . . . .	25½-36¼-51½-74x42	10	Scotch . . . . .	12'6"x11'6"	1902
North Wind . . . . .	Triple Exp. . . . .	24-38-61x42	2	Scotch . . . . .	14'x12'6"	1888
Northmount (Can.) . . . . .	Triple Exp. . . . .	18-30-48x33	2	Scotch . . . . .	12'6"x11'	1908
Northern King . . . . .	Triple Exp. . . . .	24-38-61x42	2	Scotch . . . . .	14'x12'6"	1888
Northern Light . . . . .	Triple Exp. . . . .	24-38-61x42	2	Scotch . . . . .	14'x13'	1906
Northern Queen . . . . .	Triple Exp. . . . .	24-38-61x42	2	Scotch . . . . .	14'x13'	1906
Northern Wave . . . . .	Triple Exp. . . . .	24-38-61x42	2	Scotch . . . . .	12'x12'	1889
Norton, D. Z. . . . .	Triple Exp. . . . .	22¼-36-60x42	2	Scotch . . . . .	13'9"x11'6"	1906
Norwalk . . . . .	Steeple Comp. . . . .	21-40x30	1	Marine . . . . .	9'6"x15'	1890
Norway . . . . .	Quad. Exp. . . . .	20-29-42-61x42	3	Scotch . . . . .	12'6"x12'	1910
Nottingham, Wm. . . . .	Triple Exp. . . . .	22½-35-58x40	2	Scotch . . . . .	13'2"x11'6"	1902
Nye, Harold B. . . . .	Triple Exp. . . . .	22-35-58x40	2	Scotch . . . . .	13'2"x11'6"	1902
Oades, Jno. . . . .	F. & A. . . . .	24-48x42	1	Fire Box . . . . .	11'6"x16'	1890
Oatland (Can.) . . . . .	F. & A. . . . .	27-44x40	2	Fire Box . . . . .	7'6"x15'6"	1907
Octorara . . . . .	Quad. Exp. . . . .	22-31½-45-65x42	4	Scotch . . . . .	12'6"x11'6"	1910
Odanah . . . . .	Triple Exp. . . . .	22-35-58x42	2	Scotch . . . . .	13'9"x11'6"	1907
Odland (Norw.) . . . . .						
Ogdensburg . . . . .	Quad. Exp. . . . .	17½-25½-37-54x36	2	Scotch . . . . .	12'6"x11'6"	1906

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES		BOILERS		Year Built	
	Type	Cylinders and Stroke	No.	Type		Size
Ogemaw . . . . .	Steeple Comp. . . . .	22-40x30	1	Fire Box . . . . .	10'x14'	1908
Oglebay, E. W. . . . .	Triple Exp. . . . .	20-34-54x44	2	Scotch . . . . .	12'6"x12'	1896
Ohl, Edwin N. . . . .	Triple Exp. . . . .	22-35-58x42	2	Scotch . . . . .	13'9"x11'6"	1907
Olcott (Can.) . . . . .	F. & A . . . . .	19-32x26	1	Fire Box . . . . .	8'6"x14'	1888
Olcott, W. J. . . . .	Triple Exp. . . . .	24-38-65x42	2	Scotch . . . . .	16'x11'9"	1910
Olympia . . . . .	Triple Exp. . . . .	20-32-52x42	2	Scotch . . . . .	11'x12'	1889
Omaha . . . . .	F. & A. . . . .	22-40x40	1	Fire Box . . . . .	10'x16'	1887
Ongiara . . . . .	H. P. N. C. . . . .	14x16	1	Fire Box . . . . .	5'x10'	1885
Ontario (Can.) . . . . .	2 Horiz. Cond. . . . .	50x114	4	Scotch . . . . .	13'3"x14'	1890
Ontario No. 1 (Can.) . . . . .	2 Triple Exp. . . . .	20½-32½-54x36	4	Scotch . . . . .	14'x12'	1907
Ontario No. 2 (Can.) . . . . .	Triple Exp. . . . .	20½-33-54x36	4	Scotch . . . . .	14'x12'	1915
Orinoca . . . . .	Triple Exp. . . . .	16-25-42x36	1	Scotch . . . . .	12'3"x12'	1898
Orr, Arthur . . . . .	Triple Exp. . . . .	19-32-52x44	2	Scotch . . . . .	12'x12'	1892
Orr, Geo. N. . . . .	Triple Exp. . . . .	20-33-54x40	2	Scotch . . . . .	13'x12'	1905
Osborne, A. W. . . . .	Triple Exp. . . . .	23-38-63x42	2	Scotch . . . . .	14'x11'6"	1913
Osborn, Frank C. . . . .	F. & A. . . . .	17½-38½x30	1	Scotch . . . . .	12'x12'6"	1912
Osler, E. B. . . . .	Quad. Exp. . . . .	19-28-40-58x42	3	Scotch . . . . .	12'x12'	1907
Ossifrage (Can.) . . . . .	Triple Exp. . . . .	13½-23-37x24	1	Scotch . . . . .	12'x12'	1892
Otis, John . . . . .	Steeple Comp. . . . .	19-32x30	1	Fire Box . . . . .	7'x13'	1883
Outing . . . . .						
Overland (Can.) . . . . .	Steeple Comp. . . . .	26-36x30	1	Scotch . . . . .	11'2"x11'3"	1898
Owana . . . . .	Beam Cond. . . . .	48x108	2	Scotch . . . . .	13'2"x11'	1899
Owega . . . . .	Triple Exp. . . . .	28-42-72x54	2	Scotch . . . . .	14'6"x11'7"	1912
Owen, John . . . . .	Triple Exp. . . . .	19½-33-56x42	2	Scotch . . . . .	12'6"x11'	1889
Pabst, Fred . . . . .	Triple Exp. . . . .	21-33½-57x42	2	Scotch . . . . .	13'x10'6"	1890
Pahlow, Louis . . . . .	Steeple Comp. . . . .	16-32x30	1	Fire Box . . . . .	7'x15'	1892
Paine, Wm. A. . . . .	Triple Exp. . . . .	22½-36-60x42	2	Scotch . . . . .	13'9"x11'6"	1905
Paipoonge (Can.) . . . . .	Triple Exp. . . . .	20-38-61x42	2	Scotch . . . . .	14'x11'	1913
Paliki (Can.) . . . . .	Triple Exp. . . . .	17-30-48x36	1	Scotch . . . . .	15'6"x10'6"	1912
Palmer, Wm. P. . . . .	Triple Exp. . . . .	24-38-65x42	2	Scotch . . . . .	13'x11'9"	1910
Panay . . . . .	Triple Exp. . . . .	20-33½-55x40	2	Scotch . . . . .	13'x13'	1902
Pargny, E. W. . . . .	Triple Exp. . . . .	24½-42-65x42	3	Scotch . . . . .	13'6"x11'	1916

ENGINES AND BOILERS—Continued

VESSEL	ENGINES			BOILERS		Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Parks, O. E. ....	Steeple Comp. ....	16-32x24	1	Fire Box .....	7'6"x12'	1891
Parthia (Can.) .....						
Pathfinder . ....	Triple Exp. ....	21-37-62x42	2	Scotch . ....	13'9"x11'6"	1908
Pawnee . ....	Steeple Comp. ....	20-44x40	1	Fire Box .....	10'2"x16'	1893
Pegasus . ....	Triple Exp. ....	22-35-58x42	2	Scotch . ....	13'2"x11'6"	1902
Pelee (Can.) .....	Triple Exp. ....	12½-21-34x21	1	Scotch . ....	12'6"x11'	1914
Pellatt, H. M. (Can.) .....	Triple Exp. ....	21-35-57x36	2	Scotch . ....	13'6"x10'3"	1903
Penobscot . ....	Triple Exp. ....	22-35-59x44	2	Scotch . ....	13'x12'	1895
Pentland . ....	2 F. & A. ....	22½-44x36	1	Scotch . ....	13'x13'	1894
Pennsylvania (Can.) .....	F. & A. ....	22-44x38				
Pere Marquette No. 3 .....	F. & A. ....	20-44x	2	Scotch . ....	9'6"x11'	1911
Pere Marquette No. 4 .....	F. & A. ....	21-37x36	2	Scotch . ....	9'x11'	1888
Pere Marquette No. 6 .....	Triple Exp. ....	19-30-52x40	1	Fire Box .....	8'x14'	1888
Pere Marquette No. 7 .....	Steeple Comp. ....	16-30x30	1	Scotch . ....	10'6"x11'	1903
Pere Marquette No. 8 .....	F. & A. ....	18-36x30	1	Scotch . ....	11'x12'	
Pere Marquette .....	Triple Exp. ....	12-19-32x20	4	Scotch . ....	15'3"x12'	1897
Pere Marquette No. 14 .....	2 F. & A. ....	27-56x36	4	Scotch . ....	11'6"x13'2"	1904
Pere Marquette No. 17 .....	2 Triple Exp. ....	19-31-52x36	4	Scotch . ....	13'x12'	1901
Pere Marquette No. 18 .....	2 Triple Exp. ....	19-31-52x36	4	Scotch . ....	13'9"x11'6"	1910
Pere Marquette No. 19 .....	2 Triple Exp. ....	19-31-52x36	4	Scotch . ....	13'9"x12'	1903
Pere Marquette No. 20 .....	2 Triple Exp. ....	19-31-52x36	4	Scotch . ....	13'9"x12'	1903
Perkins, G. W. ....	Triple Exp. ....	24-39-65x42	2	Scotch . ....	15'4½"x11'6"	1905
Perseus . ....	Triple Exp. ....	22-36-60x40	2	Scotch . ....	13'2"x11'6"	1905
Petoskey . ....	F. & A. ....	20-40x36	1	Fire Box .....	10'x16'	1888
Philbin, D. M. ....	Triple Exp. ....	23½-38-63x42	2	Scotch . ....	14'4"x12'	1905
Philippe, Louis (Can.) .....	F. & A. ....	21-37x46	1	Fire Box .....	8'6"x16'	1882
Phipps, Henry .....	Triple Exp. ....	24-39-65x42	2	Scotch . ....	16'x11'6"	1907
Pierce, E. L. ....	Triple Exp. ....	22½-36-60x42	?	Scotch . ....	13'9"x12'	1910
Pierrepont (Can.) .....	Beam Cond. ....	27x60	1	Fire Box .....	6'6"x11'	1886
Pine Lake .....	Steeple Comp. ....	16-30x24	1	Fire Box .....	9'x12'	1895
Pittsburg . ....	H. P. N. C. ....	18x20	2	Scotch . ....	12'x12'	1911
Pleasure . ....	F. & A. ....	24-34x24	2	Scotch . ....	10'x12'	1893

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES		BOILERS		Year Built	
	Type	Cylinders and Stroke	No.	Type		Size
Plow Boy .....	H. P. N. C. ....	14x16	1	Fire Box .....	5'x10'	1874
Plumb, Henry .....	Triple Exp. ....	20½-33-54x36	2	Scotch .....	13'6"x10'3"	1903
Plummer, J. H. (Can.) .....	Quad. Exp. ....	17-25-38½-60x42	2	Water Tube ....	12'2"x10'	1902
Poe, Gen. O. M. ....	Triple Exp. ....	22-35-58x40	2	Scotch .....	13'9"x11'6"	1906
Pollock, W. G. ....	Triple Exp. ....	19-30-52x40	2	Scotch .....	12'x12'	1908
Polynesia .....	Triple Exp. ....	24½-40-65x42	3	Scotch .....	18'x11'	1917
Pontiac .....	Triple Exp. ....	22-35-56x44	2	Scotch .....	14'2"x11'6"	1891
Pope, E. C. ....	Steeple Comp. ....	16-32x30	1	Fire Box .....	8'x12'	1893
Porter, Lloyd S. (Can.) .....	Triple Exp. ....	18½-34½-51x36	2	Scotch .....	12'4"x11'6"	1900
Portland .....	Non. Cond. ....	14x18	1	Fire Box .....		1903
Powell, L. G. ....	Steeple Comp. ....	20-40x36	1	International . .	9'x13'8"	1901
Prescott (Can.) .....	Quad. Exp. ....	17-25½-39-60x40	2	Water Tube ....	12'6"x9'2"	1898
Prentice, J. H. ....	Inclined Cond. ....	25x40	1	Scotch .....	11'x12'	1890
Presque Isle .....	Quad. Exp. ....	18-26¾-63-41x42	2	Water Tube ....	11'4½"x10'	1900
Primrose (Can.) .....	N. C. ....	22x24	2	Scotch .....	10'x12'	1892
Princess (Can.) .....	Triple Exp. ....	15-25-42x30				
Princeton .....	Triple Exp. ....	21-34-58x40	4	Scotch .....	11'x10'	1905
Promise .....	Triple Exp. ....	25-40-45-45x36	4	Scotch .....	12'6"x10'6"	1911
Pt. Colborne (Can.) .....	Beam Cond. ....	60x144	4	Tubular .....	9'5"x14'9"	1900
Puriton .....	Triple Exp. ....	21-38-63x40	2	Water Tube ....	13'6"x13'10"	1896
Put-in-Bay .....						
Quebec (Can.) .....	Triple Exp. ....	15-25-42x24	2	Scotch .....	10'x11'	1903
Queen City .....	Steeple Comp. ....	23-46x36	2	Fire Box .....	8'x16'8"	1887
Querida (Can.) .....	F. & A. ....	27-50x40	1	Fire Box .....	12'x16'	1911
Racine .....	Triple Exp. ....	22-35-58x40	2	Scotch .....	13'9"x11'6"	1908
Raleigh .....	Triple Exp. ....	20-33-54x42	2	Scotch .....	12'3"x12'	1895
Ralph, P. J. ....	Triple Exp. ....	15½-24-30-30x22	2	Scotch .....	14'4"x12'	1907
Ramona .....	2 Triple Exp. ....	12½-20-22-22x16	1	Scotch .....	14'8"x11'6"	1910
Ranney, Rufus P. ....	Triple Exp. ....	12½-19-30x15	2	Gun Boat .....	8'1"x19'6"	
Rappahannock .....						
Rapids King (Can.) .....						
Rapids Prince (Can.) .....						
Rapids Queen (Can.) .....						

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Ream, Norman B. ....	Triple Exp. ....	24-39-65x42	2	Scotch . . . . .	15'4½"x11'6"	1906
Recor, E. P. ....	Steeple Comp. ....	19-37x22	1	Fire Box . . . . .	8'6"x12'	1892
Reed, James H. ....	Quad. Exp. ....	15-23¾-36½-56x40	2	Water Tube . . . . .	13'6"x12'2"	1903
Rees, W. D. ....	Triple Exp. ....	23-38-63x40	2	Scotch . . . . .	14'x13'	1901
Regulus . . . . .	Triple Exp. ....	23-37½-63x42	3	Scotch . . . . .	12'6"x12'	1900
Reiss, Clemens A. ....	Quad. Exp. ....	15-23¾-36½-56x40	2	Water Tube . . . . .	12'x13'6"	1901
Reiss, John P. ....	Triple Exp. ....	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1910
Reiss, Otto M. ....	Quad. Exp. ....	15-23¾-36½-56x40	2	Water Tube . . . . .	12'x10'	1901
Reiss, Peter . . . . .	Triple Exp. ....	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1910
Reiss, Richard J. ....	Quad. Exp. ....	15-23¾-36½-56x40	2	Water Tube . . . . .	12'x11'	1901
Reiss, Wm. A. ....	Quad. Exp. ....	15-23¾-36½-56x40	2	Water Tube . . . . .	12'x11'	1901
Reliance . . . . .						
Rend, W. P. ....	Triple Exp. ....	20-33-54x42	2	Scotch . . . . .	11'6"x13'	1889
Renown . . . . .	Triple Exp. ....	23½-38-63x42	2	Scotch . . . . .	15'4"x11'6"	1912
Rensselaer . . . . .	Quad. Exp. ....	18-26¾-41-63x42	2	Water Tube . . . . .	11'4"x10'	1900
Renvoyle (Can.) . . . . .	Triple Exp. ....	17-28-46x33	2	Scotch . . . . .		
Replogle, J. Leonard . . . . .	Triple Exp. ....	24-39-65x42	2	Scotch . . . . .	15'4"x11'6"	1906
Republic . . . . .	Triple Exp. ....	24-38-61x42	2	Scotch . . . . .	14'x12'6"	1890
Rhodes, Joshua W. . . . .	Triple Exp. ....	22-35-58x40	2	Scotch . . . . .	13'2"x11'6"	1916
Rhodes, R. R. ....	F. & A. ....	28-50x42	1	Scotch . . . . .	12'6"x11'6"	1898
Rhodes, Wm. Castle . . . . .	Triple Exp. ....	20-33-54x40	2	Scotch . . . . .	12'4"x11'6"	1900
Richard W. (Can.) . . . . .	F. & A. ....	23-46x42	1	Scotch . . . . .	12'x12'6"	1913
Richardson, G. A. ....	Triple Exp. ....	18-30-48x42	2	Scotch . . . . .	11'6"x12'	1893
Richardson, R. R. ....	Triple Exp. ....	22-35-58x40	2	Scotch . . . . .	13'2"x11'6"	1902
Richardson, W. C. ....	Triple Exp. ....	22-35-58x40	2	Scotch . . . . .	13'9"x11'6"	1908
Richland . . . . .	Triple Exp. ....	20-33-54x42	2	Scotch . . . . .	11'x13'	1891
Rideau Queen (Can.) . . . . .	Triple Exp. ....	8½-12¾-27x14	1	Water Tube . . . . .		
Riverton . . . . .	Triple Exp. ....	23-37½-63x44	2	Scotch. . . . .	14'6"x11'	1916
Robbins, F. L. ....	Triple Exp. ....	19-30-52x40	2	Scotch . . . . .	12'x12'	1905
Robbins, S. H. ....	Triple Exp. ....	23-38-63x40	3	Scotch . . . . .	12'x12'	1899
Roberts, Percival, Jr. . . . .	Triple Exp. ....	24-39-65x42	2	Scotch . . . . .	16'x11'9"	1912
Roberts, W. T. ....	Triple Exp. ....	22½-36-60x42	2	Scotch . . . . .	13'9"x11'6"	1906
Robinson, C. S. ....	Triple Exp. ....	22½-36-60x42	2	Scotch . . . . .	13'9"x11'6"	1906
Robinson, L. W. ....	Triple Exp. ....	18-29-48x40	2	Scotch . . . . .	12'x11'6"	1912
Rochester . . . . .	Triple Exp. ....	16-25-31-31x22	4	Scotch . . . . .	11'6"x11'	1910

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES			BOILERS		Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Rochester . . . . .	Quad. Exp. . . . .	21-30-43½-63x42	2	Scotch . . . . .	14'10"x12'6"	1907
Rock Ferry (Can.) . . . . .	F. & A. . . . .	21-48x40	1	Scotch . . . . .	12'x12'	1891
Rockefeller, Frank . . . . .	Triple Exp. . . . .	23-38-63x40	2	Scotch . . . . .	15'4"x11'	1916
Rogers, H. H. . . . .	Triple Exp. . . . .	24-39-65x42	2	Scotch . . . . .	15'4"x11'6"	1905
Rogers, Wm. A. . . . .	Triple Exp. . . . .	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1905
Rolph, John (Can.) . . . . .						
Roman . . . . .	Triple Exp. . . . .	24-38-61x42	2	Scotch . . . . .	14'x12'6"	1891
Roosevelt, Theo. . . . .	Triple Exp. . . . .	30-48-56-56x40	7	Scotch . . . . .	11'6"x11'6"	1906
Rosedale (Can.) . . . . .	Triple Exp. . . . .	17-28-46x30	2	Scotch . . . . .	10'x10'	1888
Rosemount (Can.) . . . . .	Triple Exp. . . . .	20½-34-57x39	2	Scotch . . . . .	13'6"x9'6"	1896
Ross, Myrtle M. . . . .	H. P. N. C. . . . .	10x10	1	Fire Box . . . . .	6'x10'	1890
Roumania . . . . .	Steeple Comp. . . . .	26-54x36	2	Scotch . . . . .	11'x12'	
Royalite (Can.) . . . . .	Triple Exp. . . . .	16-26-44x36	1	Scotch . . . . .		1915
Rudolph, Wm. . . . .	Steeple Comp. . . . .	16-29x20	1	Fire Box . . . . .	7'x15'	1883
Rugee, John . . . . .	F. & A. . . . .	22-40x42	1	Fire Box . . . . .	10'x16'	1888
Runnells, H. E. . . . .	F. & A. . . . .	20-40x30	1	Scotch . . . . .	12'x12'6"	1896
Rutland . . . . .	Quad. Exp. . . . .	17½-25½-37-54x36	2	Scotch . . . . .	12'6"x11'6"	1906
St. Irene (Can.) . . . . .	Beam Surf. C. . . . .	56x132	2	Fire Box . . . . .	9'8"x22'4"	1866
St. Lawrence (Can.) . . . . .	Beam Cond. . . . .	32x72	1	Fire Box . . . . .	8'x16'2"	1884
St. Louis . . . . .						
St. Marie . . . . .	F. & A. . . . .	28-52x42	4	Scotch . . . . .	7'x11'	1906
St. Paul . . . . .	Triple Exp. . . . .	17-29-47x36	2	Scotch . . . . .	10'6"x12'	1897
Ste. Claire . . . . .	Triple Exp. . . . .	20½-32-50x36	2	Scotch . . . . .	13'2"x12'	1910
Sachem . . . . .	F. & A. . . . .	21-38x36	1	Scotch . . . . .	12'x12'	1889
Sacramento . . . . .	Triple Exp. . . . .	20-33-54x42	2	Scotch . . . . .	12'3"x12'	1895
Sage, Russell . . . . .	Steeple Comp. . . . .	24-54x36	1	Scotch . . . . .	13'4"x11'9"	1899
Sailor Boy . . . . .	Steeple Comp. . . . .	9-18x18	1	Scotch . . . . .	7'x10'	1908
Sanilac . . . . .	H. P. N. C. . . . .	20x22	1	Fire Box . . . . .	6'8"x16'	1867
Sappho . . . . .	H. P. N. C. . . . .	20x24	1	Fire Box . . . . .	8'x15'6"	1883
Saranac . . . . .	Triple Exp. . . . .	24-38-61x42	2	Scotch . . . . .	11'x13'6"	1915
Sarnolite (Can.) . . . . .	Triple Exp. . . . .	16-26-44x36	1	Scotch . . . . .		1916
Sarnian (Can.) . . . . .	Triple Exp. . . . .	20-33-54x40	2	Scotch . . . . .	12'4"x11'6"	1895
Sarnor (Can.) . . . . .	F. & A. . . . .	24-48x40	1	Fire Box . . . . .	10'6"x15'6"	1888
Saskatoon (Can.) . . . . .	Triple Exp. . . . .	17-28-46x33	2	Scotch . . . . .	12'x11'	1910

ENGINES AND BOILERS—Continued

VESSEL	ENGINES			BOILERS		Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Saturn . . . . .	Triple Exp. . . . .	20-33-57x42	2	Scotch . . . . .	12'6"x12'	1901
Saugatuck (Can.) . . . . .	H. P. N. C. . . . .	18x20	1	Fire Box . . . . .	7'6"x15'	1880
Saunders, E. N. . . . .	Triple Exp. . . . .	22-35-58x40	2	Scotch . . . . .	13'2"x11'6"	1902
Sawyer, Philetus . . . . .	Steeple Comp. . . . .	18-34x30	1	Scotch . . . . .	12'x12'6"	1909
Sawyer, W. H. . . . .	F. & A. . . . .	25-48x40	1	Scotch . . . . .	12'6"x13'	1890
Saxon . . . . .	Triple Exp. . . . .	24-38-61x42	2	Scotch . . . . .	14'x12'6"	1891
Seeandbee . . . . .	Triple Comp. . . . .	66-96-96x10 $\frac{1}{2}$	9	Scotch . . . . .	6-14'x10'6"	1913
Schiller, Wm. B. . . . .	Triple Exp. . . . .	24-39-65x42	2	Scotch . . . . .	16'x11'6"	1910
Schlesinger, Ferd . . . . .	Triple Exp. . . . .	18-33-57x42	2	Scotch . . . . .	12'6"x12'	1891
Schoolcraft . . . . .	F. & A. . . . .	22-44x42	1	Scotch . . . . .	12'3"x11'6"	1895
Schoonmaker, Col. J. M. . . . .	Quad. Exp. . . . .	22 $\frac{3}{4}$ -33 $\frac{1}{4}$ -48-69x42	3	Scotch . . . . .	14'9"x12'2"	1911
Scotsman (Can.) . . . . .		11-20x16			3-14'3"x20'5 $\frac{1}{2}$ "	
Scottish Hero (Can.) . . . . .	Quad. Exp. . . . .	19 $\frac{1}{2}$ -27 $\frac{1}{2}$ -39-55x42	2	Water Tube . . . . .		1895
Scranton . . . . .	Triple Exp. . . . .	19-30-54x40	2	Scotch . . . . .	11'6"x11'	1888
Seguin (Can.) . . . . .	Triple Exp. . . . .	17-28-46x30	2	Scotch . . . . .	10'3"x10'	1890
Sellwood, Joseph . . . . .	Triple Exp. . . . .	22 $\frac{1}{2}$ -36-60x42	2	Scotch . . . . .	13'9"x11'6"	1906
Senator . . . . .	Triple Exp. . . . .	22-35-58x44	2	Scotch . . . . .	13'6"x12'6"	1896
Senator Derbyshire (Can.) . . . . .	Steeple Comp. . . . .	21-42x30	1	Scotch . . . . .	12'x12'	1890
Seneca . . . . .	Triple Exp. . . . .	24-38-61x42	3	Scotch . . . . .	11'x12'	1889
Seymour, R. A., Jr. . . . .	H. P. N. C. . . . .	14 $\frac{1}{2}$ x18	1	Fire Box . . . . .	6'6"x13'	
Shaughnessy, Sir Thomas . . . . .	Triple Exp. . . . .	22 $\frac{1}{2}$ -36-60x42	2	Scotch . . . . .	13'9"x11'6"	1906
Shaw, Chas. H. (Can.) . . . . .	F. & A. . . . .	28-52x40	2	Scotch . . . . .	12'x11'	1889
Shaw, Howard L. . . . .	Triple Exp. . . . .	22-35-58x42	2	Scotch . . . . .	13'2"x12'	1900
Shaw, Quincy A. . . . .	Triple Exp. . . . .	23 $\frac{1}{2}$ -38-63x42	2	Scotch . . . . .	14'6"x11'6"	1911
Shadle, J. H. . . . .	Triple Exp. . . . .	23-37-63x42	2	Scotch . . . . .	15'x11'6"	1906
Shenandoah . . . . .	Triple Exp. . . . .	20-33-54x42	2	Scotch . . . . .	13'x13'	1894
Shenango . . . . .	Triple Exp. . . . .	24-38-65x42	2	Scotch . . . . .	16'x12'	1909
Sherwin, Jno. . . . .	Triple Exp. . . . .	22 $\frac{1}{2}$ -36-60x42	2	Scotch . . . . .	13'9"x11'6"	1906
Shiras, Mc Gillivan . . . . .	Triple Exp. . . . .	22-35-58x40	2	Scotch . . . . .	13'2"x11'6"	1904
Shores, A. Jr. . . . .	F. & A. . . . .	16-43x36	2	Scotch . . . . .	9'6"x12'	1892
Shrigley, J. H. (Can.) . . . . .	Steeple Comp. . . . .	19-40x30	1	Fire Box . . . . .	9'x14'	1892
Sicken, M. . . . .	Steeple Comp. . . . .	16-28x24	1	Fire Box . . . . .	7'6"x14'	1884
Siemans, Sir Wm. . . . .	Triple Exp. . . . .	23-41-66x42	2	Scotch . . . . .	15'4 $\frac{1}{2}$ "x11'6"	1908
Sierra . . . . .	Quad. Exp. . . . .	16 $\frac{1}{2}$ -24-35-50x42	2	Scotch . . . . .	12'6"x12'	1906



**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Simla (Can.)	Triple Exp.	17-28-46x36	2	Scotch	11'x11'9"	1903
Sinaloa	Triple Exp.	20-33½-55x42	2	Scotch	13'2"x11'6"	1903
Sinbad (Can.)	F. & A.	27-54x33	1	Scotch		1883
Slick, Edward E.	Triple Exp.	23-37-63x42	2	Scotch	15'x11'6"	1908
Smith, B. Lyman	Triple Exp.	22½-35-58x40	2	Scotch	13'2"x11'6"	1903
Smith, H. W.	Triple Exp.	22½-35-58x40	2	Scotch	13'2"x11'6"	1903
Smith, Home	Triple Exp.	20-33½-55x40	2	Scotch	12'10"x13'	1901
Smith, Lyman C.	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1905
Smith, Monroe C.	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1903
Smith, Wilbert L.	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1903
Snyder, W. P.	Triple Exp.	23-37-63x42	2	Scotch	15'x12'	1906
Snyder, W. P., Jr.	Quad. Exp.	23-33¼-48-69x42	3	Scotch	14'9"x12'2"	1912
Sonoma	Triple Exp.	20-33½-55x42	2	Scotch	13'2"x11'6"	1903
Sonora	Triple Exp.	20-33-54x42	2	Scotch	14'x12'	1902
Soo City (Can.)	F. & A.	16-28x26	1	Fire Box	8'x12'	1889
Soper, Albert	H. P. N. C.	24¾x30	1	Scotch	10'x12'	1899
South American	Quad Exp.	21½-30¾-44½-64x36	3	Scotch	12'x14'	1914
Sowards (Can.)	H. P. N. C.	20x30	1	Scotch	8'6"x12'	1895
Spalding, Jesse	Triple Exp.	17-28-47x36	2	Scotch	11'x12'	1899
Spokane	F. & A.	26-50x42	2	Scotch	11'x13'	1896
Squire, F. B.	Triple Exp.	23-38-63x40	3	Scotch	12'6"x12'	1902
Stackhouse, Powell	Triple Exp.	22½-38-63x42	2	Scotch	14'6"x11'6"	1905
Stadacona	Triple Exp.	22½-36-61x42	2	Scotch	14'2"x12'	1909
Stafford, W. R.	Steeple Comp.	24-46x36	1	Scotch	11'11"x12'7"	1886
Stanton, John	Triple Exp.	23½-38-63x42	2	Scotch	14'6"x11'6"	1905
Staples, Gale (Can.)	F. & A.	24-44x42	2	Scotch	10'x11'	1888
Starke, C. H.	F. & A.	18-28x20	1	Scotch	10'x10'	1890
		80				
State of New York	Beam Cond.	36-44x120	4	Scotch	9'8"x11'	1900
State of Ohio	Beam Cond.	50x132	2	Fire Box	12'10"x18'	1880
Steinbrenner, Henry	Triple Exp.	23-38-63x40	3	Scotch	12'6"x12'	1901
Steel King	Triple Exp.	22-35-58x40	2	Scotch	13'2"x11'6"	1902
Steelton (Can.)	Triple Exp.	17-28-46x33	2	Scotch	11'x12'	1914
Stephenson, Geo.	Triple Exp.	25-40-67x44	2	Scotch	14'x11'6"	1913
Stephenson, I. W.	F. & A.	18-36x32	1	Scotch	11'6"x12'	1895
Stephenson, S. M.	F. & A.	20-40x30	1	Scotch	11'3"x11'4"	1896

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES			BOILERS		Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Sterling, Jno. R. ....	2 Steeple Comp. ....	18-40x36	1	Fire Box .....	10'6"x15'6"	1891
Stevens, Frank B. (Can.) .....	Steeple Comp. ....	18-33x28	1	Scotch . ....	9'10"x11'4"	1909
Stewart, A. E. ....	Triple Exp. ....	20-33-54x42	2	Scotch . ....	14'x12'	1902
Stewart, Rhoda .....	Steeple Comp. ....	19-36x36	1	Fire Box .....	8'x16'	1880
Stifel, Wm. F. ....	Triple Exp. ....	21-34½-57x42	2	Scotch . ....	13'x11'6"	1908
Stone, Amasa .....	Triple Exp. ....	23-38-63x42	2	Scotch . ....	14'6"x11'5"	1905
Storemount (Can.) .....	Triple Exp. ....	20½-33-54	2	Scotch . ....	13'9"x10'	1907
Strathcona (Can.) .....	Triple Exp. ....	18-30-50x36	1	Scotch . ....	15'6"x11'	1900
Stuart W. (Can.) .....	F. & A. ....	21-44x48	1	Scotch . ....	12'6"x11'6"	1895
Suit, J. C. ....						
Sullivan, J. J. ....	Triple Exp. ....	23½-38-63x42	2	Scotch . ....	14'6"x11'6"	1907
Sultana .....	Triple Exp. ....	20-33-54x42	2	Scotch . ....	14'x12'	1902
Superior .....	Quad. Exp. ....	20¾-30-43½-63x42	2	Scotch . ....	14'9"x12'	1905
Superior .....	F. & A. ....	20-38x24	1	Fire Box .....	9'6"x15'	1890
Superior City .....	Quad. Exp. ....	17-25½-39-60x40	2	Water Tube ....	13'10"x9'3"	1898
Sweden .....	Triple Exp. ....	22½-35-58x42	2	Scotch . ....	13'2"x11'6"	1902
Tadausac (Can.) .....	Beam Cond. ....	60x132	2		14'x21'	
Tagona (Can.) .....	Triple Exp. ....	17-28-46x33	2	Scotch . ....	12'x10'10"	1907
Tampa .....	Triple Exp. ....	20-32-54x42	2	Scotch . ....	11'x12'	1890
					3-11'x11'	
Tashmoo .....	Inclined Triple Exp.	33-51-82x72	5	Scotch . ....	2-11'x21'8"	1900
Taurus .....	Triple Exp. ....	22-35-58x42	2	Scotch . ....	13'x11'6"	1903
Taylor, J. Fraeter (Can.) .....	Triple Exp. ....	22-35-58x42	2	Scotch . ....	13'2"x11'6"	1901
Taylor, Moses .....	Triple Exp. ....	22-35-58x40	2	Scotch . ....	13'2"x11'6"	1902
Tempest .....	Steeple Comp. ....	21-38x36	1	Fire Box .....	9'x16'	1887
Terrebonne (Can.) .....						
Thistle .....	F. & A. ....	10½-18x16	1	Scotch . ....	6'6"x7'7"	1887
Thompson, A. W. ....	Triple Exp. ....	23-38-63x42	2	Scotch . ....	14'6"x11'6"	1908
Thompson, Carmi A. ....						
Thompson, Smith .....	Quad. Exp. ....	16½-24-35-50x42	2	Scotch . ....	12'6"x12'	1907
Thousand Islander .....	Vertical Comp. ....	15-30-15-30x20	2	Scotch . ....	12'6"x10'6"	1912
Tioga .....	2 Steeple Comp. ....	16-42x48	2	Scotch . ....	11'6"x12'	1896
Tionesta .....	Quad. Exp. ....	22-31½-45-65x42	4	Scotch . ....	12'6"x11'	1903
Toiler (Can.) .....	F. & A. ....	27-44x42	2	Scotch . ....	12'x10'	1889
Toltec .....	F. & A. ....	22-44x40	1	Fire Box .....	10'x16'	1890

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Tomlinson, G. A. ....	Triple Exp. ....	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1909
Toronto (Can.) ....	Inclined Triple Exp. ....	28-44-74x72	4	Scotch . . . . .	11'x11'6"	1899
Tourist . . . . .	F. & A. ....	11-20x14	1	Scotch . . . . .	6'x6'9"	
Townsend, E. Y. ....	Triple Exp. ....	24-39-65x42	2	Scotch . . . . .	15'4"x11'6"	1906
Transfer . . . . .	2 Horiz. Cond. ....	28x48	4	Fire Box . . . . .	11'6"x16'	1889
Transport . . . . .	2 Dble. Horiz. Cond. ....	28x48	4	Fire Box . . . . .	9'x14'	1880
Trillium (Can.) ....	Inclined Comp. ....	17-34x48	1	Scotch . . . . .	10'6"x11'	1910
Trimble, Richard . . . . .	Triple Exp. ....	24-39-65x42	2	Scotch . . . . .	16'x11'6"	1913
Troy . . . . .	Quad. Exp. ....	19-27½-40-58x42	3	Scotch . . . . .	11'x11'6"	1898
Truesdale, W. H. ....	Triple Exp. ....	22-35-58x40	2	Scotch . . . . .	13'9"x11'6"	1908
Turbinia (Can.) ....	Turbines . . . . .	34-42-42x	2	Scotch . . . . .	17'6"x10'6"	1904
Turner, J. J. ....	Triple Exp. ....	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1906
Turrett Cape (Can.) ....	Triple Exp. ....	22-36-59x39	2	Water Tube ....	12'7"x11'	1895
Turrett Court (Can.) ....	Triple Exp. ....	20-34-57x39	2	Water Tube ....	12'4"x10'	1896
Turrett Crown (Can.) ....	Triple Exp. ....	22-36-59x39	2	Scotch . . . . .	14'x11'	1913
Tuscarora . . . . .	Triple Exp. ....	24-38-61x42	2	Scotch . . . . .	11'x13'6"	1915
Uhrig, Edward A. ....	Triple Exp. ....	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1907
Underwood, F. D. ....	Triple Exp. ....	23-38-64x42	2	Scotch . . . . .	13'9"x11'4"	1913
United Lumberman (Can.) ....	F. & A. ....	19-32x30	1	Fire Box . . . . .	9'x13'6"	1900
United Shores . . . . .	F. & A. ....	2-13-2-27x18	2	Scotch . . . . .	11'4"x11'	1911
United States . . . . .	Triple Exp. ....	22-36½-60x40	1	Scotch . . . . .	13'3"x12'4"	1909
Upson, A. S. ....	Triple Exp. ....	21-33½-57x42	2	Scotch . . . . .	13'9"x11'6"	1907
Upson, J. E. ....	Triple Exp. ....	23-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1908
Uranus . . . . .	Triple Exp. ....	21-33-57x42	2	Scotch . . . . .	12'6"x12'	1900
Utica . . . . .	Quad. Exp. ....	19-27½-40-58x42	3	Scotch . . . . .	12'x11'6"	1904
Utley, E. H. ....	Triple Exp. ....	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1910
Valcartier (Can.) ....	Triple Exp. ....	20-33½-55x40	2	Scotch . . . . .	12'10"x13'	1903
Van Allen, D. R. (Can.) ....	Steeple Comp. ....		1	Scotch . . . . .		1905
Van Hise, Chas. R. ....	Quad. Exp. ....	20½-30-43½-63x42	3	Scotch . . . . .	13'4"x11'6"	1900
Varuna (Can.) ....						
Vega . . . . .	Triple Exp. ....	21-33-57x42	2	Scotch . . . . .	12'6"x12'	1904
Venezuela . . . . .	Triple Exp. ....	16-25-42x34	1	Scotch . . . . .	12'3"x12'	1896
Venus . . . . .	Triple Exp. ....	22-35-58x40	2	Scotch . . . . .	13'2"x11'6"	1901
Vermillion . . . . .	Triple Exp. ....	18-32-48x40				

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES			BOILERS		Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Verona . . . . .	Triple Exp. . . . .	22½-36-60x42	2	Scotch . . . . .	14'6"x11'6"	1907
Veronica . . . . .	F. & A. . . . .	22-40x40	1	Fire Box . . . . .	9'2"x16'	1886
Victoria . . . . .	N. C. . . . .	20x24	1	Fire Box . . . . .	7'6"x17'6"	1872
Victoria (Can.) . . . . .						
Victory . . . . .	Triple Exp. . . . .	22-38-63x40	2	Scotch . . . . .	13'6"x11'6"	1912
Viking . . . . .	F. & A. . . . .	23-48x42	2	Fire Box . . . . .	8'6"x14'	1889
Virginia . . . . .	2 Triple Exp. . . . .	20-32-52x36	2	Scotch . . . . .	13'x21'	1891
Volunteer . . . . .	Triple Exp. . . . .	21-33-56x42	2	Scotch . . . . .	12'6"x11'	1888
Vulcan . . . . .	F. & A. . . . .	27-50x36	1	Fire Box . . . . .	11'x17'	1889
Waccamaw . . . . .	Triple Exp. . . . .	20-32½-55x40	2	Scotch . . . . .	12'6"x11'6"	1900
Wade, J. H. (Can.) . . . . .	Triple Exp. . . . .	17-29-47x36	2	Scotch . . . . .	11'x12'	1890
Wahcondah (Can.) . . . . .	Triple Exp. . . . .	18-28-47x33	2	Scotch . . . . .	12'6"x10'6"	1903
Waffle, T. J. (Can.) . . . . .	H. P. . . . .	12x14	1	Fire Box . . . . .	4'8"x8'	
Wallace, J. C. . . . .	Quad. Exp. . . . .	18½-28½-43½-66x42	2	Water Tube . . . . .	11'x12'2"	1905
Wallula . . . . .	Comp. . . . .	30-56x48	2	Marine . . . . .	8'8"x18'	1882
Walsh, J. P. . . . .	Triple Exp. . . . .	22½-36½-60x42	2	Scotch . . . . .	13'9"x11'6"	1905
Walters, Thomas . . . . .	Triple Exp. . . . .	24-39-65x42	2	Scotch . . . . .	16'x11'6"	1911
Warner, C. M. . . . .	Triple Exp. . . . .	20-33½-55x40	2	Scotch . . . . .	12'6"x11'6"	1903
Warner, R. S. . . . .	Triple Exp. . . . .	20-33-54x40	2	Scotch . . . . .	13'2"x11'6"	1901
Warren, Homer (Can.) . . . . .	Steeple Comp. . . . .	21-42x36	1	Scotch . . . . .	11'6"x13'	1892
Watson, C. W. . . . .	Triple Exp. . . . .	22-35-58x40	2	Scotch . . . . .	13'2"x11'6"	1902
Watt, James . . . . .	Triple Exp. . . . .	25-40-68x42	3	Scotch . . . . .	13'x13'	1896
Wau-Kon . . . . .	F. & A. . . . .	12-24x20	1	Fire Box . . . . .	6'6"x12'	1897
Waubic (Can.) . . . . .	Triple Exp. . . . .	10-16½-27x15	1	Scotch . . . . .	12'6"x10'6"	1909
Wauketa . . . . .	Triple Exp. . . . .	17¼-27½-43x30	3	Scotch . . . . .	10'8"x11'6"	1903
Wehrle, A., Jr. . . . .	Beam Cond. . . . .	40x84	1	Fire Box . . . . .	9'6"x16'	1889
Welshman (Can.) . . . . .						
Wente, R. C. . . . .	F. & A. . . . .	19-36x30	1	Fire Box . . . . .	9'x15'	1888
Wesee . . . . .	F. & A. . . . .	25-52x40	1	Fire Box . . . . .	11'6"x13'	1901
Westcott, J. W. . . . .	H. P. N. C. . . . .	26¾x30	1	Fire Box . . . . .	8'x15'	1883
Western States . . . . .	Inclined Comp. . . . .	52-72-72x84	6	Scotch . . . . .	13'6"x11'9"	1902
Westmount (Can.) . . . . .	Triple Exp. . . . .	24-40-66x42	3	Scotch . . . . .	13'x11'	1916
Where-Now (Can.) . . . . .						
White, Peter . . . . .	Triple Exp. . . . .	23-37-63x42	2	Scotch . . . . .	14'9"x12'	1905
White, W. F. . . . .	Triple Exp. . . . .	25½-41-67x42	3	Scotch . . . . .	13'6"x11'2"	1915
Wickwire, Theo H. . . . .	Triple Exp. . . . .	22½-36-60x42	2	Scotch . . . . .	13'9"x11'6"	1909

**ENGINES AND BOILERS—Continued**

VESSEL	ENGINES		BOILERS			Year Built
	Type	Cylinders and Stroke	No.	Type	Size	
Wickwire, Theo. H., Jr. ....	Triple Exp. ....	23-37-63x42	2	Scotch . . . . .	15'x12'	1910
Widner, P. A. B. ....	Triple Exp. ....	24-39-65x42	2	Scotch . . . . .	15'4½"x11'6"	1906
Widlar, Francis . . . . .	Triple Exp. ....	22-35-58x40	2	Scotch . . . . .	13'2"x11'6"	1904
Williams, Geo. F. ....	Triple Exp. ....	17-32-54x42	2	Scotch . . . . .	11'x12'	1889
Williams, H. D. ....						
Wilkinson, H. S. ....	Quad. Exp. ....	21½-30½-43-61x42	3	Scotch . . . . .	13'x11'	1917
Wilkesbarre . . . . .	Quad. Exp. ....	20½-30-43½-63x42	3	Scotch . . . . .	12'x12'6"	1900
Wilpen . . . . .	Triple Exp. ....	24-38-65x42	2	Scotch . . . . .	16'x12'	1907
Wilson, Mathew . . . . .	Steeple Comp. ....	18-36x28	1	Fire Box . . . . .	7'6"x17'	1882
Wilson, Capt. Thomas . . . . .	Triple Exp. ....	22-38-63x40	2	Scotch . . . . .	14'x11'6"	1915
Windsor (Can.) . . . . .	F. & A. ....	21-47x42	2	Fire Box . . . . .	9'6"x14'	1896
Winnipeg . . . . .	Steeple Comp. ....	22-48x48	1	Fire Box . . . . .	9'6"x17'	
Winona (Can.) . . . . .	Triple Exp. ....	20½-33-54x36	2	Scotch . . . . .	13'9"x10'3"	1906
Wisconsin . . . . .	Triple Exp. ....	22-35-58x42	2	Scotch . . . . .	13'2"x11'6"	1904
Wissahicken . . . . .	Quad. Exp. ....	19-27½-40-58x42	3	Scotch . . . . .	11'6"x11'6"	1907
Wolf, W. H. (Old) . . . . .	Triple Exp. ....	20-32-54x42	2	Scotch . . . . .	10'6"x11'6"	1887
Wolf, W. H. . . . .	Triple Exp. ....	22½-36-60x42	2	Scotch . . . . .	13'9"x11'6"	1908
Wolvin, A. B. . . . .	Quad. Exp. ....	18½-28½-43½-66x42	2	Water Tube . . . . .	x10'	1904
Wood, Joseph . . . . .	Triple Exp. ....	23½-38-63x42	2	Scotch . . . . .	14'6"x11'6"	1910
Woods, Frank . . . . .	H. P. N. C. ....	18x20	1	Fire Box . . . . .	6'6"x12'	
Wotan . . . . .	F. & A. ....	22-44x40	1	Scotch . . . . .	13'x14'	1914
Wyandotte . . . . .	Triple Exp. ....	18-31-50x36	2	Scotch . . . . .	12'x11'4"	1908
Wyoming . . . . .	F. & A. ....	28-50x52	2	Fire Box . . . . .	10'8"x13'6"	1887
Yale . . . . .	Triple Exp. ....	23-38-63x40	2	Scotch . . . . .	14'x13'	1895
Yates, Harry . . . . .	Triple Exp. ....	23-37-63x42	2	Scotch . . . . .	15'x12'	1910
Yorkton (Can.) . . . . .	Triple Exp. ....	17-28-46x33	2	Scotch . . . . .	12'x11'	1911
Yosemite . . . . .	Triple Exp. ....	18-29-48x40	2	Scotch . . . . .	11'6"x11'6"	1901
Yuma . . . . .	Triple Exp. ....	20-33-54x42	2	Scotch . . . . .	12'3"x12'5"	1893
Zeising, August . . . . .						
Zenith City . . . . .	Triple Exp. ....	19-38-63x40	2	Water Tube . . . . .	12'6"x9'	1895
Zillah . . . . .	F. & A. ....	25-48x40	1	Scotch . . . . .	12'x14'	1911

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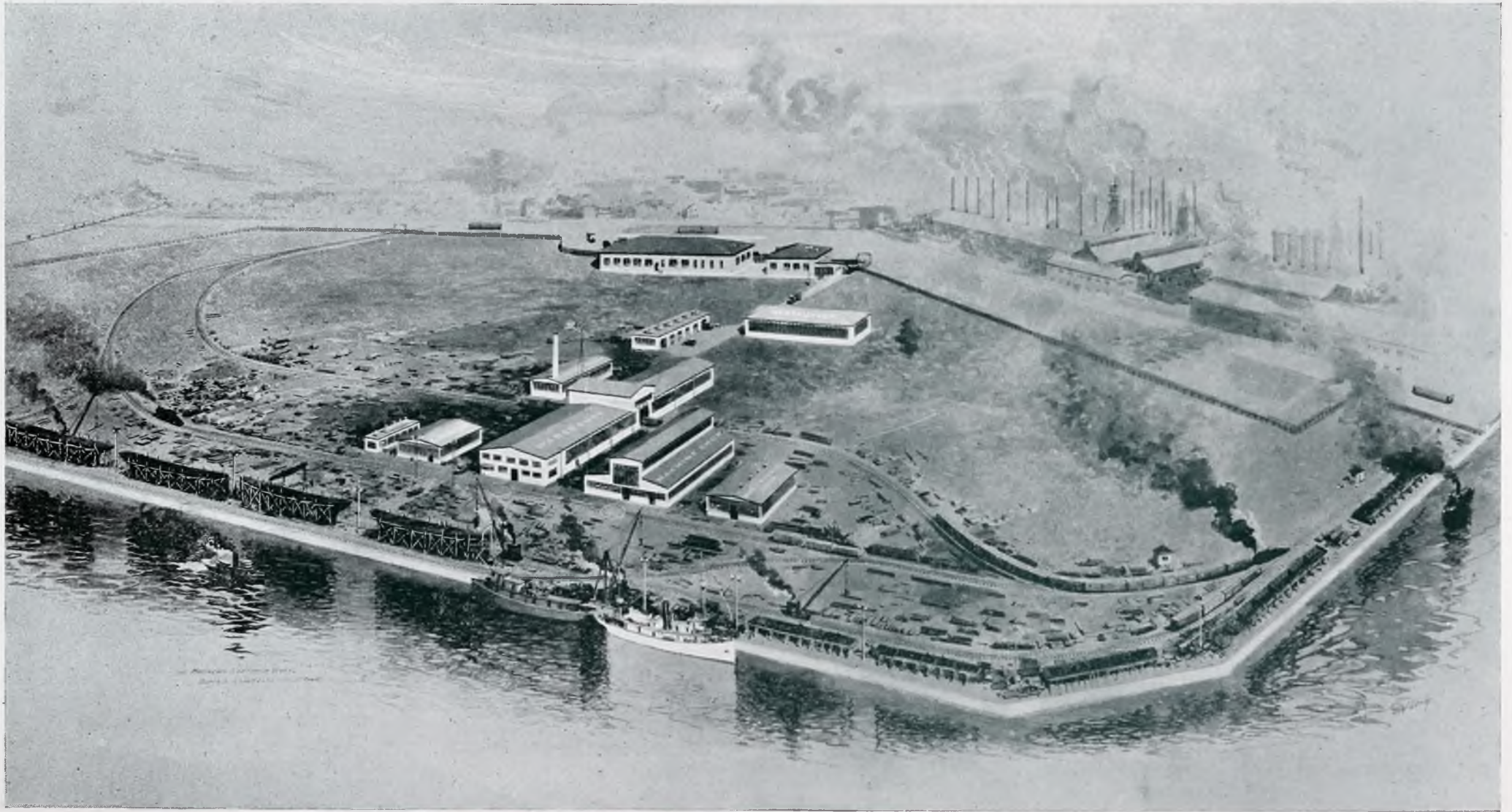
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## Buffalo, New York

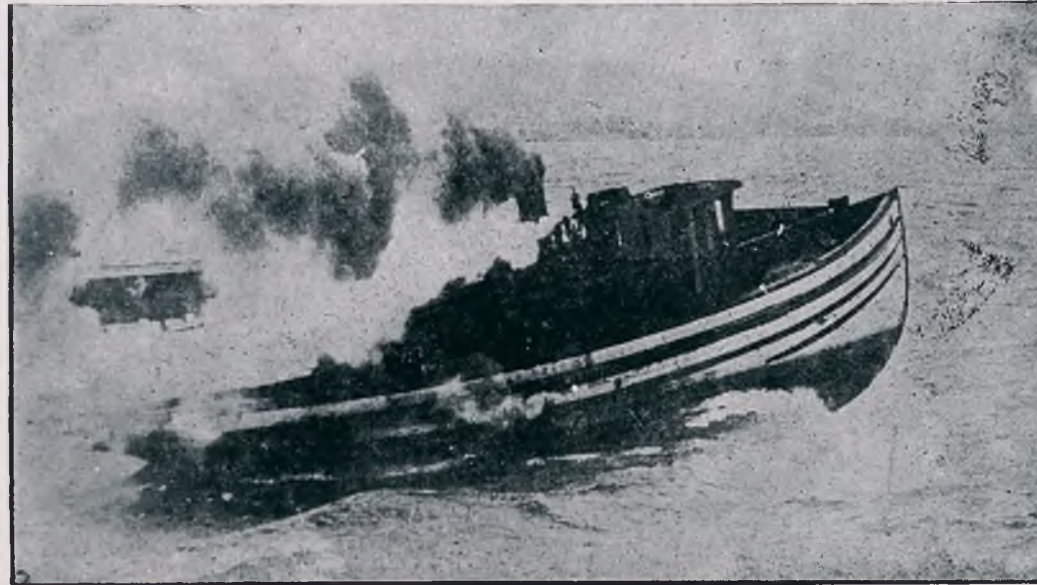


Shipbuilding = = Reconstruction = = Repairing

TUGS WHOSE NAMES HAVE BEEN CHANGED.

New Name.

Aeolins.  
Ames, J. C.  
Ashland.  
Bayfield.  
Baur, E. C.  
Battle, Thomas C.  
Burke, D. J.  
Birkhead, L.  
Breyman, John B.  
Caroline.  
Charlton.  
Chicago.  
Conqueror.  
Constitution.  
Cornell.  
Cortland.  
Cresswell.  
Dennessen, Nettie.  
Diver, J. M.  
Duchess.  
Fairmount.  
Gillett, F. W.  
Harlem.  
Hebard, Daniel L.  
Henry.  
Howard.  
Laffayette.  
Liberty Bond.  
Lucknow.  
McMaugh, Howard  
McNaughton.  
McNaughton, C. B.  
Maganetawan.  
Mentor.  
Magnolia.  
Mead, Spencer.  
Muntago.  
Mohawk.  
Nelles, Geo. T.



Old Name.

Dewey, Joseph B.  
Magnus.  
Fox, Hattie A.  
Hall, Minnie.  
Leona.  
Genesse.  
Welcome.  
Brever, Dennis.  
Yataw, J. T.  
Andrews, A., Jr.  
Alpha.  
Pere Marquette No. 7.  
Superior.  
Miller, E. H.  
Victor.  
Brand, Michael.  
Pacific.  
Parker, Geo. H.  
Detroiter.  
Roi Tan.  
Wright, Albert J.  
Rummage.  
Mason, E. L.  
Carl.  
Bismark.  
Orven.  
Telephone.  
Swan, M. R.  
Golden Eagle.  
Cayuga.  
Lake.  
Robins, Frederick U.  
Kacymo.  
Reid, Nellie.  
St. Andrew.  
Harrison, Ben.  
Logie, Jessie P.  
Witch of the West.  
Barnes, Samuel H.

Old Name.

Floss.  
Perritt, J. C.  
Van Roalte, A. C.  
Lord Stanley.  
Smith.  
Baker, Fanny L.  
Waubauschene.  
Visitor.  
Marinette.  
Sanford, Geo. D., Jr.  
Prindeville, John.  
Alley, W. H.  
Proctor, Wm. L.  
Nan, Glayds.  
Danforth, Grace.  
Wilbur, Katherine T.

New Name.

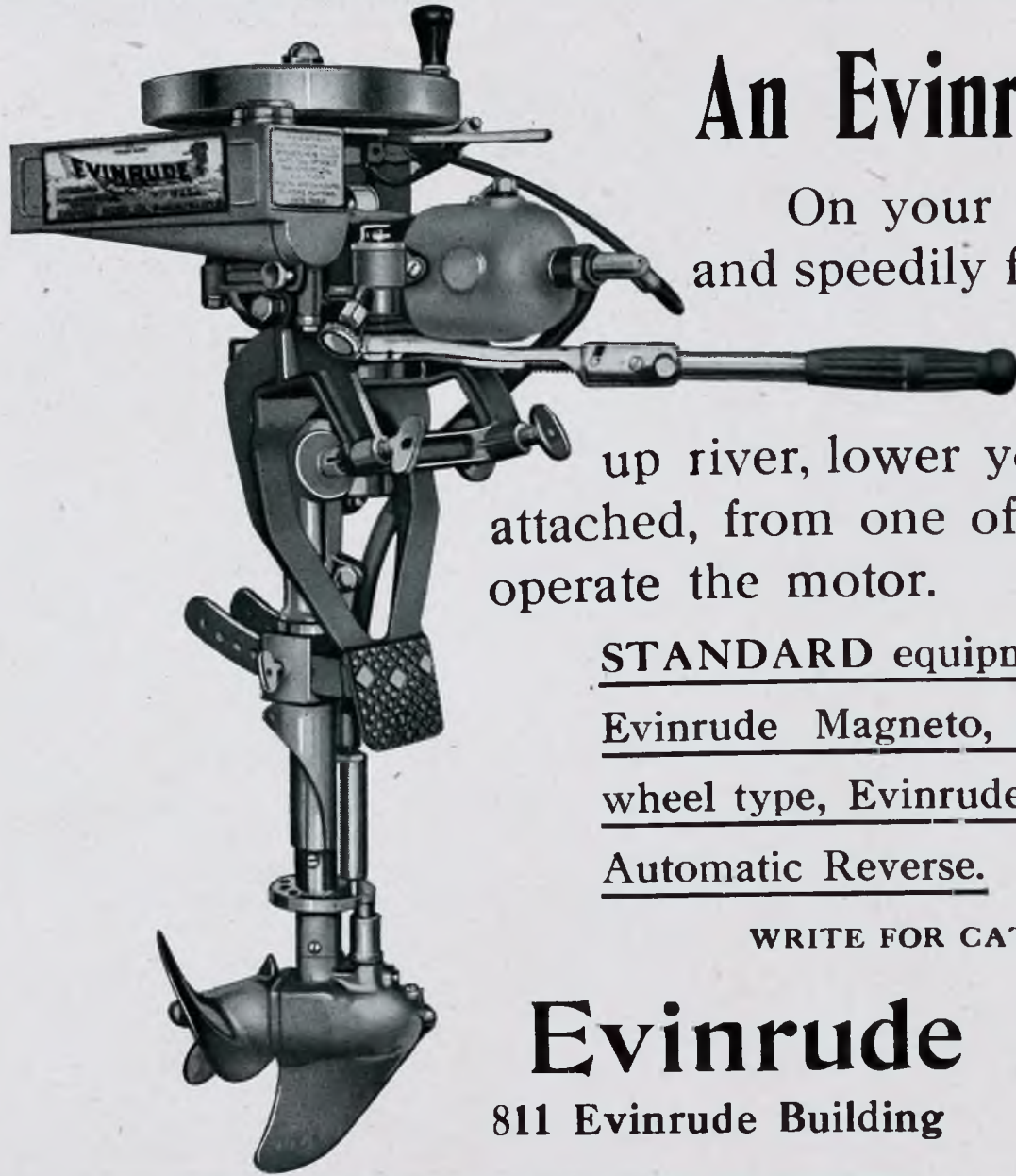
Nora.  
Ogontz.  
Pallister.  
Princeton.  
Pringle, Robert R.  
Pringle, Walter R.  
Ralph.  
Reid, Aggie B.  
Relief.  
Roi Tan.  
Salvor.  
Sarnia City.  
Siskiwit.  
Smith.  
Smith, Chas. O.  
Stone, Ella G.

Old Name.

Boyd, Robert.  
Aldrich, B. W.  
Euglesbe.  
Schiller.  
Campbell, Ben.  
Odd Fellow.  
Johnson, P. L.  
Homer, Adam.  
Dixon, Geo. B.  
Porter, Admiral D. D.  
America.  
Pankratz, Geo.  
Onaping.  
Mack, Joe.  
Conqueror.  
Carkin, W. S.

New Name.

Torsaude.  
Traveler.  
Trotter, Marion E.  
Two Maces.  
Upham, J. H.  
Valerie.  
Veleria, M.  
Virginia.  
Wawatosa.  
Warva.  
Weaver, R. G. A.  
Whalen, James.  
White, Haven.  
Wilcox Co., M. I., The  
Witch.  
Yates, Florence.



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TUGS OF THE GREAT LAKES

NAME	Construc- tion	Gross Tonnage	DIMENSIONS			Year Built	ENGINES		BOILERS			OWNERS
			L	B	D		Type	Size	Type	Size	Built	
Ada (Can.) .....	Wood	29	61'2"	15'	5'6"	1886						Charles Ogleve, Ottawa.
Adams, A. C. ....	Wood	41	62'	16'9"	9'	1881	N C	18x20	1 Fire Box	6'6"x13'		G. L. Towing Co., Cleveland.
Aikins, W. J. (Can.)..	Wood	42	60'	15'	6'5"	1874	Stple	14-25x18	1 Fire Box	5'6"x11'	1874	D. C. Graham, Ft. William.
Alabama . . . . .	Steel	98	71'	20'	12'6"	1916	Simple	25x28	1 Fire Box	7'x11'6"	1916	G. L. Towing Co., Cleveland.
Albany . . . . .	Wood	18	40'	12'6"	6'6"	1890						Wm. Gleason, Buffalo.
Alert . . . . .	Steel	42	71'4"	17'	6'3"	1896	F & A	10-18x12	1 Fire Box	5'6"x7'	1896	Booth Fisheries Co., Chicago.
Alfred W. ....	Wood	56	66'2"	17'	10'6"	1905						Duluth Sup. D. Co., Duluth.
Aliber, J. A. ....	Wood	32	73'	14'	5'6"	1897	H P	12x12	1 Fire Box	4'4"x9'6"	1897	Wm. P. Wilson, Saugatuck.
Alphard . . . . .	Wood	32	56'	15'	7'	1898						T. R. D. & D. Co., Two Rivers.
Alva W. (Can.) ....	Steel	39	65'	16'	6'9"	1908						Westcott & W., Leamington.
America . . . . .	Steel	123	80'2"	21'	12'3"	1897	F & A	16-32x28	1 Fire Box	10'x13'	1897	G. L. Towing Co., Cleveland.
Ames, J. C. ....	Wood	537	160'	29'	13'6"	1882	F & A	21-44x42	2 Fire Box	9'x14'	1896	Newago Tug L., Green Bay.
Anabel . . . . .	Wood	47	65'	16'	14'6"	1892	H P	14x16	1 Scotch	8'x7'2"	1892	A. Coffee, Manistique.
Andy . . . . .	Wood	53	68'8"	17'2"	8'6"	1896	H P	20x20	1 Fire Box	7'x12'	1889	Chicago L. Co., Chicago.
Angler . . . . .	Wood	18	54'1"	12'2"	5'2"	1880						Wm. Dunn, Cedarville.
Annie D. ....	Wood	20	54'	13'	4'6"	1886						Henry Mullenberg, Sheboygan.
Arbutus (Can.) ....	Wood	49	63'	14'8"	7'	1887						Central S. Co., Ft. William.
Arctic . . . . .	Wood	71	76'	18'	9'	1881	H P	16½x18	1 Fire Box	6'6"x14'6"	1881	Goodrich T. Co., Chicago.
Arctic (Can.) ....	Wood	101	96'3"	19'3"	7'5"	1893	H P	16x18	1 Fire Box	6'3"x14'6"		Rathbun Co., Deseronto.
Armstrong, C.E.(Can)	Wood	49	56'	13'8"	7'5"	1894						C. D. Co., Ltd., Montreal.
Arthur . . . . .	Wood	36	55'	14'	7'5"	1889	H P	14x16	1 Fire Box	5'6"x10'	1889	J. R. Laborn, Cheboygan.
Arthur . . . . .	Wood	25	54'	15'	6'7"	1890						Neal Natherson, Bayfield.
Arthur, D. ....	Wood	22	49'	13'7"	7'3"	1889	H P	15x17	1 Fire Box	5'8"x10'6"	1889	G. L. Towing Co., Cleveland.
Ashland . . . . .	Wood	97	87'4"	19'6"	6'8"	1867	Stple	15x30	1 Fire Box	7'6"x12'	1898	J. Schroeder L. Co., Milwaukee
Ashtabula . . . . .	Steel	65	68'	17'	11'6"	1915	Simple	21x24	1 Fire Box	8'x12'	1915	G. L. Towing Co., Cleveland.
Aspen . . . . .	Steel	277	117'8"	25'	11'10"	1905	Comp	16-31x24	1 Scotch	11'9"x12'	1905	U. S. Light. Est., Washington.
Augur, Chas. H. ....	Wood	25	58'	13'4"	6'8"	1889	H P	13x12	1 Fire Box	4'9"x8'	1893	J. Vandervat, Sheboygan.
Aurelia (Can.) ....	Wood	34	56'	14'9"	6'6"	1869						Robt. Weddell, Trenton.
Ealize (Can.) ....	Wood	247	132'	20'	12'	1863	Stple	18x30	1 Fire Box	10'6"x17'	1888	John Charlton, Lyndock.
Baltimore . . . . .	Steel	45	62'	16'	7'6"	1911	H P	12x14	1 Scotch	7'6"x9'	1911	Booth Fisheries Co., Chicago.
Bangs, Anson M. ....	Steel	178	101'	23'	12'	1897						Breakwater Co., Cleveland.
Banks, Louis . . . . .	Wood	23	51'	12'	6'	1897	H P	14x12	1 Fire Box	4'6"x8'	1870	F. A. Handy, Dunkirk.

TUGS OF THE GREAT LAKES—Continued.

NAME	Construc- tion	Gross Tonnage	DIMENSIONS			Year Built	ENGINES		BOILERS			OWNERS
			L	B	D		Type	Size	Type	Size	Built	
Battle, James .....	Steel	198	116'	25'	13'	1900	H P	18-18x24	2 Scotch	11'3"x9'6"	1901	Detroit F. Dept., Detroit.
Battle, Thomas (Can)	Wood	54	64'	16'5"	6'	1888	H P	18x18	1 Fire Box	6'6"x12'	1891	Jos. Battle, Thorald.
Bapst, Frank L. ....	Wood	43	59'	17'	7'	1895						Empire Limestone Co., Buffalo.
Barr, E. C. (Can.) ...	Wood	191	127'	21'8"	10'	1881	F & A	30-54x45	1 Fire Box	8'6"x17'	1884	Reid T. & W. Co., Ltd., Sarnia.
Beaumont (Can.) ....	Steel	58	69'	16'6"	9'6"	1907	F & A	15-30x21	1 Scotch	10'2"x9'7"	1907	Canadian D. Co. Ltd., Midland.
Bell, Ada (Can.) .....	Wood	6	28'	7'	3'2"	1890						Charles Bates, Clearcreek.
Bellinger, A. A. ....	Wood	14	43'	12'	6'	1880	N C	14x14	1 Fire Box	5'x9'		Frank Roenker, Tonawanda.
Bess, Earl (Can.) ....	Wood	121	80'	20'	10'	1914	F & A	15-26x20	1 Scotch	8'x12'	1909	A. Henning, Pt. Burwell.
Bird, Francis A. ....	Wood	14	40'	13'	6'	1893						Frank Roenker, Tonawanda.
Birkhead, L. ....	Wood	32	61'	16'	7'8"	1883	H P	18x20	1 Fire Box	6'8"x13'	1883	Greiling Bros., Green Bay.
Birmingham .....	Wood	23	53'4"	14'5"	6'	1910						Booth Fisheries Co., Chicago.
Blake, Ed. (Can.) ...	Wood	22	48'7"	12'2"	4'9"	1884						Wm. Birmingham, Ottawa.
Bly, Nellie (Can.) ...	Wood	13	42'2"	13'4"	4'2"	1890						Joseph Goodwin, Toronto.
Bos, C. J. ....	Steel	34	59'	14'6"	6'5"	1882						Greiling Bros., Green Bay.
Boutin, M. ....	Wood	46	68'	18'	8'6"	1898						Wm. Verdiun, Grand Haven.
Bowman, A. F. (Can.)	Wood	113	76'	22'	12'	1906	F & A	18-36x26	1 Scotch	11'x11'	1898	C. T. W. Co. Ltd., Ft. William
Boyd, Harry H. ....	Wood	36	68'	15'	7'	1895	H P	14x14	1 Scotch	5'x9'	1893	Keystone Fish Co., Erie.
Boynton, C. L. ....	Wood	103	87'	21'7"	12'	1894	F & A	17-34x30	1 Fire Box	9'x13'	1894	United F. & S. Co., Detroit.
Breyman, J. B. ....	Wood	59	71'	18'	9'	1885	H P	22x24	1 Fire Box	7'x15'	1886	Geo. Breyman, Toledo.
Brogan, L. T. ....	Wood	55	66'6"	17'2"	9'11"	1906	H P	16-16x10	1 Fire Box	6'6"x16'	1906	Newago Tug Line, Green Bay.
Brooks, Leroy (Can.)	Steel	61	75'	15'	7'6"	1891						Ino. McQueen, Amherstburg.
Brooks, H. G. ....	Wood	20	57'	14'	5'	1888	H P	13x12	1 Fire Box	4'4"x7'6"	1888	Eugene Thompson, Erie.
Brower, H. F. ....	Wood	30	60'	15'	7'	1882						E. P. Nester, Duluth.
Brown, Willie .....	Wood	19	47'	13'	6'	1871	H P	14x16	1 Fire Box	5'6"x9'	1887	Lake S. Tug Co., Bayfield.
Bruce, B. F. ....	Wood	35	58'	15'	7'8"	1873						James Davidson, Bay City.
Buffalo .....	Steel	71	68'	17'	11'6"	1912	H P	20x22	1 Fire Box	7'x12'	1912	G. L. Towing Co., Cleveland.
Burke, D. J. (Can.) ..	Wood	97	71'2"	18'2"	8'8"	1883	F & A	19-34x26	1 Fire Box	9'6"x13'	1892	Montreal Transp Co., Montreal
Burns, James .....	Wood	25	52'8"	13'	6'	1893	H P	12x12	1 Fire Box	4'4"x8'6"	1893	Ino. Volem, Cleveland.
Butler, Frank S. ....	Wood	38	66'	15'	7'6"	1865	H P	18x20	1 Fire Box	5'6"x12'	1875	S. C. Schenck, Toledo.
Cadillac .....	Wood	19	50'2"	13'	5'6"	1901						C. C. Ryan, Buffalo.
Calumet .....	Wood	63	73'	19'6"	9'1"	1892						G. L. D. & D. Co., Chicago.

TUGS OF THE GREAT LAKES—Continued.

NAME	Construc- tion	Gross Tonnage	DIMENSIONS			Year Built	ENGINES		BOILERS			OWNERS
			L	B	D		Type	Size	Type	Size	Built	
Callister . . . . .	Wood	35	60'	14'	6'	1890	H P	12x14	1 Fire Box	5'x9'	1890	P. Yenson, Grand Haven.
Canfield, C. C. . . . .	Steel	33	59'	16'	7'	1917	H P	12x14	1 Scotch	6'x10'	1911	Interlake S. S. Co., Cleveland.
Cape Blane Boy(Can.)	Wood	11	37'8"	11'	5'2"	1881						E. Houet, Montreal.
Caroline . . . . .	Wood	51	77'	16'	17'	1882						Johanna Degergus, Ludington.
Carrington, M. D. . . . .	Iron	64	67'	16'	9'	1875	H P	21x23	1 Fire Box	6'2"x12'	1889	G. L. Towing Co., Cleveland.
Cassidy, J. H. . . . .	Steel	110	82'	22'	12'6"	1912	H P	25x28	1 Fire Box	9'4"x16'	1900	G. L. D. & D. Co., Chicago.
Castanet . . . . .	Steel	46	70'	14'4"	7'	1909	H P	14x16	1 Scotch	7'6"x11'	1909	Ranney Fish Co., Cleveland.
Charlemagne (Can.)	Wood	76	87'3"	13'6"	7'6"	1891						C. & LacQ. L. Co., Montreal.
Charlton (Can.) . . . . .	Wood	389	135'	19'4"	10'4"	1862	F & A	22-44x32	1 Fire Box	10'6"x16'	1890	Victoria H. L. Co., Victoria.
Chase, Stephen . . . . .	Wood	45	69'	16'	6'	1902						Geo. Owen, Ashtabula.
Charnley, C. M. . . . .	Wood	83	78'	19'	9'	1882	H P	25x26	1 Fire Box	8'x14'		Booth Fisheries Co., Chicago.
Chattanooga . . . . .	Steel	47	60'3"	16'	7'6"	1910	H P	12x14	1 Fire Box	7'6"x9'	1910	G. L. Towing Co., Cleveland.
Chicago . . . . .	Wood	40	60'4"	17'8"	8'7"	1882	H P	18x18	1 Fire Box	6'6"x12'6"	1887	G. L. Towing Co., Cleveland.
Chicago . . . . .	Wood	78	81'4"	18'2"	7'	1882						Chicago Fire Dept., Chicago.
Cincinnati . . . . .	Steel	47	60'3"	16'	7'6"	1910	H P	12x14	1 Fire Box	7'6"x9'	1910	Booth Fisheries Co., Chicago.
Ciscoe . . . . .	Steel	15	44'7"	12'8"	4'7"	1891						Ranney Fish Co., Cleveland.
Clark, Alex (Can.) . . . . .	Wood	98	88'8"	18'3"	8'8"	1911	Stple	14-26x20	1 Scotch	10'x10'6"	1911	V. J. Fisher, Collingwood.
Clayt . . . . .	Wood	10	40'6"	10'9"	4'6"	1887	H P	11x11	1	4'6"x8'6"		J. R. Pickands, Cheboygan.
Clucas (Can.) . . . . .	Wood	28	60'	13'8"	5'7"	1882						Dominion Fish Co., Winnipeg.
Colton, A. W. . . . .	Iron	92	81'	18'	10'	1881						G. L. Towing Co., Cleveland.
Coe, S. S. . . . .	Wood	31	66'	15'	6'	1868	H P	18x22	1 Fire Box	6'x11'6"	1896	I. T. Boat Line, Milwaukee.
Conqueror (Can.) . . . . .	Wood	166	104'	20'	10'	1883	Stple	19-36x30	1 Fire Box		1910	S. & McN. Line, Montreal.
Constitution . . . . .	Wood	46	72'	16'8"	9'	1900						Alpena Tug Co., Alpena.
Cooper, Ralph M. . . . .	Wood	36	59'	15'	6'	1893						Henry Devine, Sturgeon Bay.
Cornelia . . . . .	Wood	38	62'	16'	8'	1882						Jno. C. Hines, Auburn.
Cornell . . . . .	Wood	65	72'	17'	11'	1888	H P	21x22	1 Fire Box	7'6"x13	1892	G. L. Towing Co., Cleveland.
Corona . . . . .	Wood	51	64'	16'6"	7'6"	1892						A. S. Osborn, Duluth.
Cortland . . . . .	Steel	48	58'2"	17'3"	7'5"	1895						Lehigh V. R. R. Co., Buffalo.
Cotton, Nellie . . . . .	Iron	37	63'	14'6"	8'	1867	H P	20x22				N. M. DeHaas, Marquette.
Courtney, L. . . . .	Steel	48	62'	16'	7'6"	1909	H P	12x14	1 Scotch	7'6"x9'	1909	Booth Fisheries Co., Chicago.
Craig . . . . .	Steel	32	53'	15'	7'	1905						So. H. W. & T Co., So. Haven.
Crane, Frank R. . . . .	Wood	16	48'	12'	6'	1878						G. L. D. & D. Co., Chicago.

TUGS OF THE GREAT LAKES—Continued.

NAME	Construc- tion	Gross Tonnage	DIMENSIONS			Year Built	ENGINES		BOILERS			OWNERS	
			L	B	D		Type	Size	Type	Size	Built		
Crawford, A. V.(Can.)	Wood	51	72'	15'7"	7'2"	1891						E. B. Boone, Toronto.	
Cresswell . . . . .	Wood	35	56'	15'	6'	1882						Jno. Shea, Duluth.	
Crosby . . . . .	Wood	35	66'4"	15'6"	6'8"	1889						B. H. Turner, Little Current.	
Cuyler, Geo. W. (Can.)	Wood	56	64'	14'6"	5'4"	1880	H P	14x16	1	5'x10'	1880	Great L. D. Co., Pt. Arthur.	
Curlew (Can.) . . . . .	Wood	85	77'	16'5"	8'	1867	H P	18x18	1	6'x12'		Jno. Pasque, Bayfield.	
Currie, R. W. . . . .	Wood	36	60'	14'	7'	1882						W. H. Davis, Ottawa.	
Curtis, H. C. (Can.) . .	Wood	36	52'4"	13'8"	5'6"	1878						F. B. Cresswell, Saginaw.	
Dash, Jno. A. . . . .	Wood	13	52'	12'	5'	1886	H P	12x12	1	4'2"x8'	1886	John A. Dash, Erie.	
Davis, Townsend . . . .	Wood	67	70'	19'	10'6"	1890	H P	22x24	1	Fire Box	8'x14'	1890	G. L. Towing Co., Cleveland.
Davis, Wm. (Can.) . .	Steel	40	63'3"	16'	6'	1897							Michael McAuleff, Welland.
Davitt, Michael (Can.)	Wood	28	52'8"	13'6"	6'4"	1885	H P	16x18	1	Fire Box	5'6"x11'		H. M. Connolly, Montreal.
Delisle (Can.) . . . . .	Wood	46	62'4"	14'8"	7'4"	1869							Minister of P. Wks., Ottawa.
Dempsey, E. C. . . . .	Steel	87	79'	20'	10'6"	1910	F & A	16-32x24	1	Scotch	10'6"x12'	1910	Byrne Bros.D.& E. Co.,Chicago
Denessen, Netie . . . .	Wood	54	75'	13'6"	4'	1884	H P	12x14	1	Fire Box	4'3"x10'	1884	Wm. Denessen, Ft. Howard.
Desmond, Tim . . . . .	Wood	31	59'	15'	6'	1898							Alpern & Whitten, Alpena.
Dickinson, Wm. . . . .	Wood	78	78'	19'	11'	1893	H P	20½x21	1	Fire Box	9'x14'	1893	G. L. Towing Co., Cleveland.
Dimick, Lorenzo . . . .	Wood	42	65'	16'	10'	1883	H P	18½x17	1	Fire Box	6'6"x13'	1888	Roy G. Evans, Cheboygan.
Diver, J. M. (Can.) . .	Wood	48	67'6"	16'4"	9'	1882	H P	16x18	1	Fire Box	7'8"x14'		Reid T. & W.Co.Ltd.,Sarnia.
Dixon, S. O. . . . .	Wood	29	53'	15'	7'	1892	H P	16x16	1	Fire Box	4'9"x10'6"		James P. McGinn, Milwaukee.
Dodge, Phillip T. . . .	Steel	68	61'	18'	9'4"	1914	F & A	12-24x16	1	Scotch	10'x10'	1914	I. Paper Co., Niagara Falls.
Donaldson, Geo. S. . . .	Wood	13	44'	13'6"	6'	1883							W. F. Warren, Tonawanda.
Downey, Robt. (Can.)	Wood	37	52'	14'	6'9"	1893	H P	16x16	1	Marine	5'x11'7"		C. S. Boone D.&C. Co. Toronto
Downs, Kittie . . . . .	Wood	34	63'	16'	6'	1890	H P	18x19	1	Fire Box	5'8"x11'	1890	Breakwater Co., Cleveland.
Dreadnaught . . . . .	Wood	31	70'	15'	6'	1881							G. L. Towing Co., Cleveland.
Dudley, Joe. (Can.) . .	Wood	52	70'	15'	8'6"	1865							G. L. D. Co. Ltd., Pt. Arthur.
Duncan City . . . . .	Wood	179	104'	18'6"	9'5"	1883	Stple	18-36x26	1	Fire Box	9'x13'	1913	Mich. L. & C. Co., Rogers City.
Dunkirk . . . . .	Steel	71	68'	17'	11'6"	1910	Simple	21x24	1	Fire Box	7'6"x14'		G. L. Towing Co., Cleveland.
Earnshaw, F. O. . . . .	Wood	33	54'	14'	6'	1886	L P	10-20x14					Western Stone Co., Chicago.
Ecorse . . . . .	Comp	52	60'	18'	10'6"	1908	H P	18x20	1	Fire Box	6'6"x12'3"	1908	Great Lakes E. Wks., Detroit.
Eddy, Lulu (Can.) . . .	Wood	29	51'	14'	5'6"	1888	H P	13½x14	1	Fire Box	5'4"x9'	1890	Joseph Ganley, Sault Ste Marie



TUGS OF THE GREAT LAKES—Continued.

NAME	Construc- tion	Gross Tonnage	DIMENSIONS			Year Built	ENGINES		BOILERS			OWNERS	
			L	B	D		Type	Size	Type	Size	Built		
Edison, C. R. ....	Wood	40	63'	15'7"	6'	1889	F & A	11-20x14	1	Scotch	6'6"x9'	1889	American C. Co., Cleveland.
Edward, Frank .....	Wood	39	58'	14'	6'	1890							W. H. Callister, Grand Haven.
Edward, Stewart ....	Wood	15	46'	13'	4'	1876							C. M. McDonald, Jackson Hbr.
Effie B. ....	Wood	43	72'1"	16'9"	5'3"	1896	H P	14½x16	1	Fire Box	5'6"x9'	1896	J. S. Jones, Port Marlton.
Effie L. ....	Wood	41	59'	15'	7'	1875	H P	20x20	1	Fire Box	6'x14'		G. L. D. & D. Co., Chicago.
Elliott, C. A. ....	Wood	21	50'	12'	5'	1882							D. J. Martin, St. James.
Elliott, J. R. ....	Steel	210	110'	25'	12'	1902			2	Scotch	10'x9'	1913	Detroit Fire Dept., Detroit.
Ella . ....	Wood	25	56'	12'	6'	1898							Phil Kegel, Chicago.
Elmer . ....	Wood	31	61'	16'	7'	1882	H P	16x18	1	Fire Box	6'x12'	1882	Standard C. Co., Cleveland.
Elphicke, C. W. ....	Wood	44	64'	16'	6'6"	1889	H P	14x18	1	Fire Box	5'8"x11'	1892	T. C. Lutz, Chicago.
Elsa, M. ....	Wood	14	41'	11'	4'2"	1893	H P	8x8	1	Fire Box		1893	A. Allen, Kewaunee.
E. M. B. A. ....	Wood	44	71'6"	17'8"	7'6"	1891	H P	5-7x6	1	Scotch	4'4"x3'10"		C. E. Ainsworth, Sault Ste Marie
Emerson, Geo. (Can.)	Wood	31	61'	15'	8'6"	1884	H P	16x18	1		6'x11'	1884	T. Ganley, Sault Ste. Marie.
Endress, C. W. (Can.)	Wood	146	86'	21'	8'	1898							Dominion Fish Co., Winnipeg.
Enos, Jessie ....	Wood	23	51'	13'	4'	1888							M. E. Grow, Grand River.
Enterprise (Can.) ....	Wood	18	58'	12'	5'5"	1892							Levi Young, Port Bruce.
Erastus Day ....	Wood	69	70'	19'6"	10'	1893	H P	22x24	1	Fire Box	8'x14'	1892	G. L. Towing Co., Cleveland.
Erie . ....	Wood	43	60'	16'	8'6"	1897							G. L. D. & D. Co., Chicago.
Erie . ....	Wood	21	56'	14'	6'	1888							R. Bell Fish Co., Pt. Clinton.
Erna . ....	Wood	14	51'	13'	5'	1894	H P	12x12	1	Fire Box	4'6"x10'		Newago Tug Line, Green Bay.
Escort (Can.) ....	Wood	40	44'8"	15'5"	9'7"	1894							Welland C. T. Co., Pt. Colborne
Esser, M. H. ....	Wood	34	57'	14'6"	6'3"	1900							Henry Burg, Erie.
Ethel (Can.) ....	Steel	72	64'	19'2"	9'	1895							S. & McN. Line, Montreal.
Ethel (Can.) ....	Wood	13	42'	10'	4'4"	1887							Henry Sims, Sudbury.
Eureka . ....	Steel	44	73'	16'	7'6"	1909	H P	13x14	1	Fire Box	5'x10'	1909	Interlake E. Co., Cleveland.
Eureka (Can.) ....	Steel	170	94'7"	22'	11'9"	1893							Minister of M. & F., Ottawa.
Evans, J. J. ....	Wood	14	54'	12'	6'	1881	H P	14x16	1	Fire Box	5'x10'	1885	Jno. H. Riley, Menominee.
Evelyn (Can.) ....	Wood	32	61'	13'8"	5'3"	1893							Dominion Fish Co., Winnipeg.
Ewig, H. ....	Steel	62	70'6"	16'6"	8'7"	1901	F & A	14-28x20	1	Fire Box	7'x12'	1901	Illinois Stone Co., Chicago.
Fairmount . ....	Wood	59	75'	17'	9'	1894							Smith-N. & C., Muskegon.
Fairport . ....	Steel	65	78'	17'	11'6"	1914	H P	22x24	1	Fire Box	7'x12'	1914	G. L. Towing Co., Cleveland.

TUGS OF THE GREAT LAKES—Continued.

NAME	Construc- tion	Gross Tonnage	DIMENSIONS			Year Built	ENGINES		BOILERS			OWNERS	
			L	B	D		Type	Size	Type	Size	Built		
Fashion (Can.)	Wood	43	60'8"	16'6"	7'	1893	F & A	12-24x14	1	Fire Box	6'x11'	Minister of P. Wks., Ottawa.	
Fearless (Can.)	Wood	46	56'	12'	5'	1886						S. M. Carman, Iroquois.	
Ferris, Charley	Wood	54	69'8"	17'	8'8"	1884	H P	22x24	1	Fire Box	6'x13'	1883 Barnett & Record, Duluth.	
Field, W. A.	Steel	114	71'	20'	11'6"	1909	Triple	24½-40-65x42	3	Scotch	13'6"x11½'	1916 Pittsburgh S. S. Co., Cleveland.	
Fischer, S. M.	Steel	628	140'	31'	22'	1896	Triple	18-30-50x36	2	Scotch	11'6"x11'6"	1914 James Swift Coal Co., Kingston.	
Fisher, A.	Steel	58	78'	16'	8'6"	1910	H P	18x20	1	Fire Box	7'x12'	1910 A. Fisher Sons, Grand Haven.	
Fisher, Geo. E.	Wood	25	64'	16'	6'	1883	H P	12x12	1	Fire Box	5'x9'	1883 L. B. Dalmer, Ashtabula.	
Fiske, Edw. (Can.)	Wood	73	70'	16'	9'	1883	H P	18x20	1	Fire Box	6'9"x13'	1883 C. T. W. Co., Ltd. Ft. William	
Fire Queen	Wood	20	64'	17'	5'	1892	N C	8x10	1		6'x10'	L. F. Monroe, Chicago.	
Fix, Clarence S.	Steel	89	81'4"	18'4"	7'	1908	N C	15x17	1	Fire Box	10'x10'7"	1908 Fix Bros., Buffalo.	
Florence (Can.)	Wood	113	91'	19'8"	11'6"	1885	F & A	18-36x24	1	Scotch	16'5"x11'3"	1912 G. Hall Coal Co. Ltd., Montreal	
Foam (Can.)	Wood	16	42'6"	10'8"	4'3"	1900						J. S. Thom, Quebec.	
Frank W.	Steel	93	75'	18'7"	11'6"	1891	H P	23x28	1	Fire Box	8'6"x14'	1891 G. L. Towing Co., Cleveland.	
Fred B.	Wood	17	48'	14'	5'	1889	H P	12x12	1	Fire Box	4'4"x8'6"	1888 Toledo S. & G. Co., Toledo.	
Frost, E. E. (Can.)	Wood	13	38'	11'	5'	1885						J. J. Falcon, Cornwall.	
Garnet (Can.)	Wood	19	53'	11'6"	4'5"	1889						J. P. McDonald, Missasaga Isle	
Gary	Steel	71	68'8"	17'	11'	1912	H P	22x24	1		7'x12'	1912 G. L. Towing Co., Cleveland.	
Gear, G. R. (Can.)	Steel	188	66'6"	17'	9'	1912	Ver	16x18	1	Scotch	10'x10'	1912 Toronto City C., Toronto.	
Georgia	Steel	98	71'	20'	12'6"	1916	Simple	25x28	1	Fire Box	7'x11'6"	1916 G. L. Towing Co., Cleveland.	
Geiker, F. P.	Wood	35	69'	15'	6'7"	1891					10'7"x12'	1912 G. L. Towing Co., Cleveland.	
Geist, Henry	Wood	37	61'	16'	7'	1893	H P	14x16				Robert McDonald, Charlevoix	
Giant	Wood	10	36'	13'	4'	1883	H P	10x12	1	Fire Box	5'x10'	J. W. Cornell, Detroit.	
Gilbert (Can.)	Wood	41	72'	19'	5'5"	1884				1	Fire Box	3'10"x7'6"	1883 Haney & Miller, Toronto.
Gillen, Edw.	Wood	57	69'	18'	10'5"	1912	F & A	18-36x30				Davidson S. S. Co., Bay City.	
Gilmore, Q. A.	Steel	111	71'	20'	12'6"	1891						G. L. D. & D. Co., Chicago.	
Gladiator	Wood	207	115'8"	22'3"	12'	1871	Stple	22-40x30	1	Fire Box	10'3"x16'	1881 Duluth-Sup. D. Co., Duluth.	
Glide	Wood	78	74'2"	13'2"	8'	1866	H P	16x16	1	Fire Box	7'6"x14'	1878 Montreal T. Co. Ltd., Montreal.	
Grewick, C. J.	Wood	32	55'	14'	6'8"	1880	H P	14x16	1	Fire Box	5'x10'	1880 Capt. Baskell, Bay City.	
Golden	Wood	44	64'	17'6"	8'	1892	H P	20x20				G. L. D. & D. Co., Chicago.	
Grace	Wood	13	48'	12'	5'	1892						John Harboldt, Cleveland.	
Grandon	Comp	47	60'	16'6"	7'	1893	H P	12x12	1	Fire Box	4'x9'	1874 Wm. Freyensee, Sandusky.	

TUGS OF THE GREAT LAKES—Continued.

NAME	Construc- tion	Gross Tonnage	DIMENSIONS			Year Built	ENGINES		BOILERS			OWNERS
			L	B	D		Type	Size	Type	Size	Built	
Grayling . . . . .	Wood	15	44'	12'	4'6"	1889						Piepkorn Bros., Alpena.
Grayling . . . . .	Wood	17	54'	13'6"	5'	1876						Frederick Kelley, Detour.
Gravel, J. O. (Can.) ..	Steel	197	94'	24'	13'6"	1909	Comp	18-36x27	1 Scotch	13'6"x10'9"	1909	Sincennes-McN. L., Montreal.
Green, A. H. . . . .	Steel	115	80'	21'	12'	1910	F & A	16-34x26	1 Fire Box	10'x14'	1910	G. L. D. & D. Co., Chicago.
Gunderson Bros. ....	Wood	46	75'	14'	8'	1892	H P	13½x16	1 Scotch	6'x8'		G. A. Allenendinger Benton H
Hackett, J. H. (Can.)	Wood	117	87'9"	21'2"	8'9"	1901	F & A	16-28x30	1 Scotch	11'6"x10'	1901	G. Hall Coal Co. Ltd. Montreal
Hackett, M. A. (Can.)	Wood	192	99'3"	24'	9'2"	1913	F & A	20-36x30	1 Scotch	14'6"x12'6"	1912	G. Hall Coal Co. Ltd. Montreal
Hackett, M. E. (Can.)	Wood	78	70'2"	18'8"	7'4"	1894						Wm. Hacket, Quebec.
Hagerman, J. H. ....	Wood	42	67'	16'	9'	1872	H P	22x22	1 Fire Box	7'x12'	1890	Edw. Gillen, Racine.
Haynes, F. J. . . . .	Wood	27	50'	14'	7'6"	1895	H P	14x16	1 Fire Box	5'x9'	1895	Beaubien I. & C. Co., Detroit.
Hall, Jessie (Can.) ..	Wood	57	83'5"	17'	8'8"	1867	Stple	16-28x24	1 Scotch	9'x11'6"		Pulpwood Co., Appleton.
Hall, Mary P. (Can.) .	Wood	104	90'	21'	10'6"	1898	F & A	16-32x24	1 Scotch	10'10"x11'6"	1903	Montreal T. Co. Ltd., Montreal
Halladay (Can.) . . . .	Wood	47	58'7"	16'4"	8'9"	1881	H P	18x20	1 Fire Box	6'5"x13'	1891	A. B. McLean, Sault Ste Marie
Hammel, Julia C. ....	Wood	28	55'	14'6"	6'	1883						Hiram Luebke, Two Rivers.
Harding, Alboner C...	Steel	98	74'	20'	11'6"	1907	F & A	18-31x24	1 Fire Box	9'6"x12'	1907	G. L. Towing Co., Cleveland.
Harlem . . . . .	Wood	26	43'	13'6"	6'6"	1890						Geo. A. Walker, Buffalo.
Harold, J. . . . .	Wood	33	64'	16'	7'2"	1901						F. P. Eichbacher, Erie.
Harris, Geo. A. (Can.)	Wood	87	90'	18'8"	7'2"	1882						Ottawa T. Co. Ltd., Ottawa.
Harrison, C. H. . . . .	Wood	30	71'	16'	5'2"	1901						James Rolson, Chicago.
Harrison (Can.) . . . .	Wood	222	120'	22'2"	13'	1909	F & A	19-32x26	1 Scotch	12'6"x13'6"	1909	T. L. Durocher, Sault Ste Marie
Farrow, W. G. (Can.)	Wood	110	94'5"	19'2"	9'	1893	Stple	9-15x12	1 Fire Box	6'x10'8"	1886	J. Harrison Sons Co. Owen Sd.
Harvard . . . . .	Steel	75	71'6"	17'	8'	1907	H P	20x24	1 Fire Box	7'x13'	1899	Dominion Fish Co., Winnipeg.
Hazard (Can.) . . . . .	Wood	34	62'7"	11'7"	6'7"	1892						G. L. Towing Co., Cleveland.
Heatherbelle (Can.) ..	Wood	20	50'	12'6"	5'8"	1882						E. Harris, Pt. Dover.
Hebard, D. L. . . . .	Wood	159	98'	22'	9'	1875	H P	20x30	1 Fire Box	8'x17'		W. S. Richmond, Perry Sound
Hector (Can.) . . . . .	Wood	66	67'5"	16'6"	9'9"	1873						Chas. Hebard, Pequaming.
Helena (Can.) . . . . .	Steel	263	110'	23'	13'6"	1906	Triple	15-25-41x25	1 Scotch	13'6"x10'6"	1906	M. J. Hogan, Pt. Colborne.
Helm, D. T. . . . .	Wood	64	68'	18'	9'6"	1893	H P	16x16	1 Fire Box	7'x13'	1898	Dominion Gove't, Ottawa.
Hercules (Can.) . . . .	Steel	234	100'	23'	11'6"	1906						Minister of P. Wks., Ottawa.
Hershey, Peter D. ....	Wood	14	42'	12'	6'	1892						Pat Tiernan, Tonawanda.
Hickler, Clara (Can.)	Wood	42	41'	12'	5'8"	1882						Jos. Ganley, Sault Ste Marie.

TUGS OF THE GREAT LAKES—Continued.

NAME	Construc- tion	Gross Tonnage	DIMENSIONS			Year Built	ENGINES		ENGINES			OWNERS
			L	B	D		Type	Size	Type	Size	Built	
Hickler, Pauline (Can.)	Wood	51	51'	17'	7'	1892	H P	16x18	1 Fire Box	6'6"x10'	1892	Williams D. Co., Welland.
Hoffnung Bros. ....	Wood	56	61'	15'	8'6"	1890	H P	14x16	1 Fire Box	5'6"x11'		Wanless & King, Duluth.
Holtes, M. ....	Steel	48	62'	16'	7'6"	1909	H P	12x14	1 Scotch	7'6"x9'	1909	Booth Fisheries Co., Chicago.
Holton, E. D. ....	Wood	24	58'	15'	6'6"	1874	H P	17x18				A. J. Slyfield, Frankfort.
Home Rule (Can.) ...	Wood	81	74'9"	17'	9'4"	1890	H P	22x24	1 Fire Box	7'8"x12'6"		C. T. & W. Co. Ltd. Ft. William
Honore (Can.) ....	Wood	22	51'8"	12'1"	4'9"	1894						Lyon Cohen, Montreal.
Hope (Can.) ....	Wood	19	44'6"	11'	4'2"	1893						J. S. Thom, Quebec.
Hood, Thomas ....	Wood	39	59'5"	15'6"	8'6"	1881						Duluth M. C. Co., Duluth.
Horne, J. T. (Can.)..	Steel	428	114'	28'	16'	1913	Triple	18-30-48x30	1 Scotch	15'4"x11'5"	1913	Pt. A. S. Co. Ltd., Pt. Arthur
Howard . ....	Wood	195	114'	22'	10'	1864	Stple	20-36x24	1 Scotch	10'4"x11'	1892	Davison S. S. Co., Bay City.
Hudson . ....	Wood	20	43'	14'	6'	1894						Sincennes-McN. L., Montreal.
Hugh S. (Can.).....	Wood	24	50'	12'4"	5'9"	1897						G. Stalker, Collingwood.
Humber (Can.) ....	Wood	13	50'2"	11'5"	5'7"	1873						A. Pare, LaChine.
Hume (Can.) ....	Wood	58	62'9"	15'4"	8'3"	1894						Minister of P. Wks., Ottawa.
Hunter, John (Can.) .	Wood	32	54'6"	12'8"	6'3"	1885						James Murray, St. Catherines.
Huron . ....	Steel	65	68'8"	17'	11'	1915	H P	22x24	1	7'x13'	1915	G. L. Towing Co., Cleveland.
Huron Belle (Can.) ..	Wood	27	50'	12'	5'	1889						G. A. Frazer, Simcoe.
Hutchinson, J. M. ....	Wood	90	75'	20'8"	9'3"	1893						Buffalo Fire Dept., Buffalo.
Illinois . ....	Steel	99	85'	20'	12'6"	1914	F & A	16-30x24	1	8'x12'	1914	G. L. Towing Co., Cleveland.
Illinois . ....	Steel	287	107'	24'	12'6"	1898	H P	20x20	2	12'x11'	1898	Chicago Fire Dept., Chicago.
Indiana . ....	Steel	98	74'	20'	11'	1911	H P	18-18x18	1 Fire Box	14'x9'6"	1896	G. L. Towing Co., Cleveland.
Iowa . ....	Steel	98	71'	20'	12'6"	1915	H P	25x28	1	8'x12'	1915	G. L. Towing Co., Cleveland.
Isabella . ....	Wood	43	73'5"	16'4"	6'1"	1904						Isabella Lincoln, Alpena.
Islay . ....	Steel	26	60'	13'	5'	1892	H P	10x12	1 W Tube			Duluth M. S. Co., Duluth.
Jackman, F. (Can.) ..	Wood	39	65'	15'5"	6'6"	1868						W. J. Finn, Montreal.
Johnston, R. E. ....	Steel	22	46'	12'6"	5'	1906	H P	10x12	1 Scotch	5'6"x8'	1904	Walsma V. T. f. Co. G. Haven
Johnston, Wm. ....	Wood	95	85'9"	20'9"	6'6"	1878						D. S. & W. Co. Ltd. Kingston
Josephine . ....	Steel	46	56'	17'	9'	1905	H P	16x15	1 Scotch	7'x10'	1905	F. B. Chesbrough, Emerson.
Juliet . ....	Wood	61	71'	17'	7'	1889	H P	8x10	1 Fire Box	4'6"x8'6"	1889	John A. Kruse, Chicago.
Juno . ....	Wood	28	62'	14'	6'	1887						Dominion Fish Co., Winnipeg.

TUGS OF THE GREAT LAKES—Continued.

NAME	Construc- tion.	Gross Tonnage	DIMENSIONS			Year Built	ENGINES		BOILERS			OWNERS
			L	B	D		Type	Size	Type	Size	Built	
Kelderhouse, Jno. ....	Steel	100	71'	20'1"	10'5"	1907	Stple	14x32	1 Fire Box	7'6"x12'4"	1893	Empire E. Co., Buffalo.
Kenosha . . . . .	Steel	72	68'	17'	11'6"	1912	H P	21x24	1 Scotch	7'x12'	1912	G. L. Towing Co., Cleveland.
Keystone . . . . .	Wood	18	56'5"	14'	5'2"	1902						Keystone Fish Co., Erie.
Kinch, W. H. . . . .	Steel	58	68'	17'	9'	1902	H P	15x14	1 Fire Box	5'6"x9'6"		Buffalo D. Co., Buffalo.
Knight, Erastus C. ...	Steel	47	56'5"	16'	7'6"	1908	H P	16x20	1 Fire Box	5'6"x10'	1893	Benj. L. Cowles, Buffalo.
Knight Templar . . . .	Wood	38	62'	17'	7'	1890	H P	20x22	1 Fire Box	5'6"x11'	1889	I. T. B. Line, Milwaukee
Koehn, Fredrick . . . .	Wood	39	70'	14'	6'	1886						E. Schneiderwind, Sheboygan.
Koerber, Jr., Henry ..	Wood	84	69'	16'	5'8"	1902						Fix Bros., Buffalo.
Lafayette . . . . .	Wood	42	64'	15'	7'8"	1894	H P	19x19	1 Fire Box	5'6"x12'6"	1890	Empire E. Co., Buffalo.
Lake, Annie (Can.) ..	Wood	19	64'1"	9'8"	3'5"	1894						J. C. Lake, Belleville.
Lattimer, Geo. E. ....	Wood	27	50'	16'	4'4"	1899						Grattan & Lattimer, Buffalo.
Laughlin, M. A.(Can.)	Wood	23	48'	10'5"	5'	1871						Thomas Guthier, Montreal.
Laura, Grace (Can.) ..	Wood	85	76'	16'6"	11'	1902	Stple	16-18x22	1 Scotch		1890	Montreal Transp. Co., Montreal
Laura, M. (Can.) ....	Wood	18	44'	10'3"	4'6"	1894						A. LeGault, Rosspport.
Lee, Fred A. (Can.)..	Wood	65	70'	16'	9'	1896	H P	20x22	1 Fire Box	6'8"x12'	1896	S. L. Penhorwood, Sault Ste M.
Lee, Sir Jno. (Can.) .	Wood	88	86'	21'	7'2"	1888						Minister of the N. S., Ottawa
Lee, W. H. (Can.) ...	Wood	317	128'9"	30'	11'	1889	Triple	13-21-35x24	2 Scotch	10'6"x9'2"	1894	John Lee, Wallaceburg.
Lendrup . . . . .	Wood	42	63'	15'	6'	1891	F & A	12-24x12	1 Scotch	6'6"x10'		Robert Hill, Detour.
Leslie . . . . .	Wood	38	67'	15'6"	7'	1894	H P	14x18	1 Fire Box	5'6"x10'	1894	Thomas Bradwell, Chicago.
Liberty . . . . .	Wood	30	47'	13'	6'	1900						E. G. Tews, Jr., Milwaukee.
Liberty . . . . .	Wood	36	67'5"	17'8"	7'3"	1910						Harry H. Boyd, Erie.
Liberty Bond . . . . .	Wood	63	72'	20'	8'6"	1882	H P	20x22	1 Fire Box	7'6"x13'		Chas. Ellery, Detroit.
Lily & May . . . . .	Wood	12	44'	10'	6'	1903						Cleveland Fish Co., Cleveland.
Logie, Jno. (Can.) ...	Wood	37	76'	13'8"	5'5"	1893						John Logie, So. Hampton.
Lorain . . . . .	Steel	49	68'	16'	7'1"	1909						Ranney Fish Co., Cleveland.
Lorain . . . . .	Steel	65	68'	17'	11'6"	1915	H P	21x23	1	8'x12'	1915	G. L. Towing Co., Cleveland.
Lorette (Can.) . . . . .	Comp	75	77'2"	17'	7'7"	1907	F & A	9-18x14	1 Fitz	6'6"x13'	1907	Dept. of R. & C., Ottawa.
Lorman, C. A. . . . .	Wood	41	59'	17'	8'7"	1893	H P	16x18	1 Fire Box	6'6"x12'	1896	Alex. Ruelle, Jr., Detroit.
Louise, M. . . . .	Wood	18	53'	12'	5'	1892						G Muntiga, Sheboygan.
Louisville . . . . .	Steel	47	60'3"	16'	7'6"	1910	H P	12x14	1 Fire Box	7'6"x9'	1910	Booth Fisheries Co., Chicago.
Louis, B. . . . .	Wood	14	41'	11'	3'	1898						A. W. Beidler, Chicago.

TUGS OF THE GREAT LAKES—Continued.

NAME	Construc- tion	Gross Tonnage	DIMENSIONS			Year Built	ENGINES		BOILERS			OWNER
			L	B	D		Type	Size	Type	Size	Built	
Lucknow (Can.) . . . . .	Wood	256	120'	19'	7'6"	1870	Stple	22-40x27	1 Fire Box	10'x16'	1890	Midland Transp. Co., Midland.
Lutz, Maggie . . . . .	Wood	15	45'	12'	4'	1873						A. Fairchild, Frankfort.
Lydon, Harry C. . . . .	Wood	67	69'	19'	7'	1898	F & A	14-30x20	1 Fire Box	8'x12'		G. L. Towing Co., Cleveland.
McCann, Margret . . . . .	Wood	35	69'	15'	6'7"	1894	H P	14x16	1	5'6"x11'		James McCann, St. James.
McCarthy, D'Alton (Can.) . . . . .	Wood	45	66'	14'	6'4"	1893						W. G. Goodchild, Malden.
McDonald, M. (Can.) . . . . .	Wood	42	64'	14'3"	7'8"	1891						R. McDonald Co. Ltd., Toronto
McDonald, Rita . . . . .	Wood	69	72'	21'	8'	1897	H P	16½x22	1 Fire Box	7'6"x13'		G. L. Towing Co., Cleveland.
McFadden, J. D. . . . .	Wood	15	45'	11'6"	6'	1892						James Magee, Duluth.
McGonagle, W. A. . . . .	Steel	275	110'	28'	15'	1908	H P	20-20x24	2 Scotch	13'9"x11'6"	1908	Duluth & I. R. R.R. Co. Duluth
McIntosh, G. P. (Can.) . . . . .	Wood	58	78'	16'	7'3"	1888						M. J. Logan, Pt. Colborne.
McKeon, J. (Can.) . . . . .	Wood	36	52'5"	12'5"	5'	1893						Blind R. T. Co., Blind River.
McLean, A. A. . . . .	Wood	23	50'	15'	7'	1896	H P	14x14	1 Fire Box	5'6"x10'	1897	Wm. H. Sharp, Bay City.
McMaugh, H. (Can.) . . . . .	Wood	42	47'	15'7"	8'	1873						M. P. Davis, Ottawa.
McNaughton, P. B. (Can.) . . . . .	Wood	67	66'	17'	8'8"	1888						C. E. Millard, Sarnia.
Madden, T. F. . . . .	Wood	17	47'	13'	6'	1891						J. B. Donnelly, Buffalo.
Maganetawan (Can.) . . . . .	Wood	25	67'	14'4"	6'4"	1901						Wm. E. Bigwood, Toronto.
Magnolia (Can.) . . . . .	Wood	367	136'	21'4"	13'7"	1898						Canada S. S. L. Ltd., Montreal
Maggie, May (Can.) . . . . .	Wood	46	58'	14'	6'	1889						Wm. Geartshore, Parry Sd.
Maitland, T. (Can.) . . . . .	Wood	107	89'9"	18'	8'8"	1898	Stple	14-27x20	1 Fire Box	6'6"x12'	1899	Maitland-R. & Co., Owen Sd.
Major, Kingman . . . . .	Wood	47	66'	17'	8'	1901						Empire Limestone Co., Buffalo.
Major Symons . . . . .	Wood	43	60'	17'	6'3"	1900						Wm. McMinn, Buffalo.
Manitowoc . . . . .	Steel	150	92'	20'	10'6"	1909	F & A	16-32x24	1 Scotch	11'x11'6"	1909	U. S. Engineers, Washington.
Manning, J. P. . . . .	Steel	58	60'	17'	9'	1905	H P	18x20	1 Fire Box	7'x12'	1905	L. S. & M. S. Ry. Co. Ashtabula
Marguerite . . . . .	Steel	27	46'	14'	7'	1894						G. L. D. & D. Co., Chicago.
Mariet (Can.) . . . . .	Wood	49	66'	14'6"	7'	1883	F & A	11-20x16	1	5'2"x9'6"	1883	Jas. Ganley, Sault Ste. Marie.
Marion . . . . .	Wood	17	43'	13'	7'	1889	H P	14x14	1 Fire Box	5'x9'6"	1889	Standard Cont. Co., Cleveland.
Marion . . . . .	Steel	69	70'	18'	7'6"	1898						G. L. D. & D. Co., Chicago.
Martin, John . . . . .	Wood	20	57'	13'6"	6'6"	1871						G. L. D. & D. Co., Chicago.
Martin, J. H. . . . .	Wood	54	72'1"	15'	7'	1869	H P	18½x20	1 Fire Box	7'x12'6"	1873	D. L. McKinnon, Wells.

TUGS OF THE GREAT LAKES—Continued.

NAME	Construc- tion	Gross Tonnage	DIMENSIONS			Year Built	ENGINES		BFILERS			OWNER
			L	B	D		Type	Size	Type	Size	Built	
Martin, J. T. ....	Wood	47	56'	15'	8'	1896	H P	17x21	1 Fire Box	5'6"x10'	1893	Breakwater Co., Cleveland.
Mary (Can.) .....	Wood	53	65'	16'	8'6"	1874	F & A	15-30x22	1 Fire Box	6'10"x12'2"	1891	Montreal Transp. Co. Montreal
Mary Ann (Can.) ....	Wood	25	50'5"	12'3"	6'7"	1880						O. Smith, Richebrect.
Mary Ellen (Can.) ...	Wood	20	57'4"	13'4"	8'8"	1896						J. & M. Jessemmer, Cornwall.
Mary R. (Can.) .....	Wood	44	47'3"	16'	9'6"	1897						David McLeod, Pt. Colborne.
Mascot (Can.) .....	Wood	21	52'9"	12'5"	4'9"	1890						James Pilgrim, Meaford.
Mason, W. G. ....	Wood	99	84'	20'5"	13'	1898	Triple	14-22½-36x28	1 Fire Box			M. L. & C. Co., Rogers City.
Mattick, Walter .....	Steel	91	76'	20'3"	8'3"	1908	F & A	15-28x24	1 Scotch	10'x11'	1887	Walter Mattick, Buffalo.
Maud (Can.) .....	Wood	54	72'5"	15'8"	5'7"	1874						A. St. Pierre, Three Rivers.
Maud, S. ....	Wood	33	58'	15'	7'	1881						G. L. D. & D. Co., Chicago.
Maytham, Tom .....	Wood	39	63'	17'	7'	1880						G. L. Towing Co., Cleveland.
Medill, James .....	Steel	309	104'	28'2"	16'	1908						Chicago Fire Dept., Chicago.
Meldrum, H. A. ....	Wood	68	71'	20'	8'	1899	F & A	14-30x20	1 Fire Box	8'6"x12'		Lake Erie D. Co., Buffalo.
Mentor . ....	Wood	29	54'	14'	6'	1868						Harry Merritt, Duluth.
Menominee River ....	Wood	73	78'	17'	8'6"	1879	H P	20x22	1 Fire Box	7'x14'	1892	Throll S. S. Co., Green Bay.
Mercereau, W. L. ....	Steel	98	71'	20'	11'6"	1910	H P	26x28	1	9'6"x12'	1910	G. L. Towing Co., Cleveland.
Meyer's Boy's .....	Wood	27	59'3"	14'1"	6'9"	1903						Geo. Owen, Ashtabula.
Meyer, W. H. ....	Wood	94	89'	24'	11'	1898			1 Scotch	12'x12'	1910	Milwaukee T. B. L., Milwaukee
Michigan .....	Steel	98	71'	20'	12'6"	1913	H P	25x28	1	10'7"x12'6"	1913	G. L. Towing Co., Cleveland.
Mills, Paddy .....	Steel	33	52'	14'	8'	1891						Dunbar & Sullivan, Buffalo.
Miller, D. W. ....	Wood	25	40'	13'	4'	1899						L. S. Goss, Toledo.
Milwaukee . ....	Wood	82	65'	18'	9'	1889	H P	20½x24	1 Fire Box	7'6"x13'		Conrad Neiderman, Milwaukee.
Miner, J. L. ....	Wood	23	54'	14'	6'6"	1880	H P	15x16	1 Fire Box	5'6"x10'		Alex. Ruelle, Jr., Detroit.
Minnesota . ....	Steel	111	81'	20'	11'6"	1910	Stple	20-40x32	1 Fire Box	9'6"x12'		G. L. Towing Co., Cleveland.
Mississippi . ....	Steel	98	71'	20'	12'6"	1916	F & A	18-36x30	1	10'7"x12'6"	1916	G. L. Towing Co., Cleveland.
Missouri . ....	Steel	98	71'	20'	12'6"	1915	H P	24x28	1	8'x12'	1915	G. L. Towing Co., Cleveland.
Mockingbird . ....	Wood	177	123'4"	23'	16'	1873	Stple	21-38x36	2 Fire Box	6'6"x16'	1873	Davidson S. S. Co., Bay City.
Mogul . ....	Wood	23	56'	14'	4'	1889						E. W. Kishman, Vermilion.
Mohawk . ....	Wood	13	39'4"	11'9"	6'8"	1889						G. L. D. & D. Co., Chicago.
Moiles, Annie (Can.) ..	Wood	71	86'	16'6"	8'6"	1865	Stple	15-22x22	1 Fire Box	7'6"x14'	1894	Ontario G. F. Co., Windsor.
Monk, J. E. (Can.) ..	Wood	58	66'	16'	7'	1887						Jno. Fraser, Amherstburg.
Mt. Morency (Can.) ..	Wood	18	31'5"	10'8"	4'8"	1889						W. J. Pouporie, Ottawa.

TUGS OF THE GREAT LAKES—Continued.

NAME	Construc- Tonnage	Gross Tonnage	DIMENSIONS			Year Built	ENGINES		BOILERS			OWNERS
			L	B	D		Type	Size	Type	Size	Built	
Morrison, J. D. (Can.)	Wood	116	78'	20'	11'6"	1907						G. L. Dredging Co. Pt. Arthur
Morse, J. C. ....	Wood	98	77'	17'	9'	1867	H P	22x24	1	Fire Box	6'9"x13'	Chas. Hebard & S., Pequaming
Mosher . . . . .	Wood	68	64'	17'	10'	1889	H P	17x16	1	Fire Box	5'8"x14'	1882 G. L. Towing Co., Cleveland.
Myra (Can.) . . . . .	Wood	73	82'	17'2"	8'6"	1884	Stple	15½-30x22	1	Fire Box	7'6"x13'	1891 Sincennes-McN. L., Montreal.
Mystic . . . . .	Wood	63	76'	18'	9'	1871						Zenith Dredge Co., Duluth.
Nashville . . . . .	Steel	47	63'	16'	7'6"	1910	H P	12x14	1	Fire Box	7'6"x9'	1910 Booth Fisheries Co., Chicago.
Navagh, Jno. ....	Wood	19	46'6"	13'4"	6'3"	1883						R. B. Knox, Duluth.
Nellis, G. T. ....	Wood	83	81'7"	21'7"	11'	1884	H P	24x24	1	Fire Box	9'x15'	G. L. D. & D. Co., Chicago.
New York . . . . .	Steel	45	62'	16'	7'6"	1911	H P	12x14	1	Scotch	7'6"x9'	1911 Booth Fisheries Co., Chicago.
New York . . . . .	Steel	111	71'	20'	12'6"	1912	H P	25x28	1	Fire Box	9'x14'	1912 G. L. Towing Co., Cleveland.
New West Minester..	Wood	34	62'	16'	5'	1890						H. F. Englehart, Cleveland.
Nina (Can.) . . . . .	Wood	11	32'	9'5"	4'8"	1889						J. Cooper, Chatham.
Nora (Can.) . . . . .	Wood	28	50'	9'6"	4'		H P	10x10	1	Ver	4'3"x6'	1888 Minister of P. Wks., Ottawa.
North Harbor . . . . .	Steel	73	68'8"	17'	11'	1912	F & A	14-28x24	1		7'x12'	1912 G. L. Towing Co., Cleveland.
North Star . . . . .	Wood	44	69'	15'	6'	1871						Anthony Ferguson, Munising.
O'Brien, J. V. (Can.)	Wood	59	70'	16'5"	8'2"	1888						W. E. Begwood, Toronto.
O'Byrne, T. J. ....	Steel	82	71'	19'	10'6"	1914	H P	22x24	1	Fire Box	8'x14'	1914 Lincoln Park Com., Chicago.
Oggell, E. C. (Can.) .	Wood	25	49'	13'	5'7"	1874	H P	10x12	1	Fire Box	4'x8'	1871 Low & Ainslee, Pt. Dover.
Ogontz . . . . .	Wood	65	80'	19'	9'	1892	F & A	14-25x16	1	Scotch	7'x10'	1891 J. R. Pickands, Cheboygan.
Ohio . . . . .	Steel	112	81'	20'	11'6"	1910	H P	24x28	1	Fire Box	9'6"x12'	1910 G. L. Towing Co., Cleveland.
Olcott, W. J. ....	Comp	76	78'	19'	10'	1910	H P	21	1	Fire Box	7'x14'	1890 G. L. D. & D. Co., Chicago.
Onen, Anna F. ....	Wood	22	53'	12'4"	5'6"	1886						John Beck, Buffalo.
Onekama . . . . .	Wood	33	57'	16'	5'	1883						Geo. W. Smith, Charlevoix.
Orcadia (Can.) . . . . .	Wood	26	52'	11'8"	5'8"	1894						Jno. Bowman, Rosspport.
Orcadia (Can.) . . . . .	Wood	23	54'3"	14'1"	5'2"	1888						Victor Pelletier, Pt. Arthur.
Ottawa (Can.) . . . . .	Wood	21	56'6"	13'6"	5'8"	1888						Minister of P. Wks., Ottawa.
Pallister . . . . .	Wood	34	67'9"	15'	6'2"	1873	H P	18x18	1	Fire Box	6'x12'	1888 Geo. F. Bell, Toledo.
Perry, Oliver H. ....	Wood	76	74'2"	17'9"	8'	1902	F & A	12-24x18	1	Scotch		Ohio F. & G. Com., Columbus.
Pennsylvania . . . . .	Steel	104	71'	20'	12'6"	1911	H P	25x28	1		12'3"x12'4"	1911 G. L. Towing Co., Cleveland.



TUGS OF THE GREAT LAKES—Continued.

NAME	Construc- tion	Gross Tonnage	DIMENSIONS			Year Built	ENGINES		BOILERS			OWNERS
			L	B	D		Type	Size	Type	Size	Built	
Petrel (Can.)	Comp	346	129'2"	26'3"	9'6"	1892						C. B. R. & F Co., Kingston.
Philadelphia	Steel	45	62'	16'	7'6"	1911	H P	12x14	1 Scotch	7'6"x9'	1911	Booth Fisheries Co., Chicago.
Phillips, H. B. (Can.)	Wood	66	60'	16'	8'	1880	H P	14x16	1 Fire Box	6'x11'	1897	C. S. B. D. & C. Co. Toronto.
Phoenix (Can.)	Wood	29	50'	11'2"	4'8"	1900						H. L. of B. & L. S. Huntsville
Pierce, E. M.	Steel	112	71'	20'	11'6"	1909	F & A	15-30x30	1 Fire Box	8'6"x13'		G. L. Towing Co., Cleveland.
Pittsburg	Steel	45	62'	16'	7'6"	1911	H P	12x14	1 Scotch	7'6"x9'	1911	Booth Fisheries Co., Chicago.
Playfair, J. (Can.)	Wood	26	50'	11'6"	6'	1894						Erwin Tedford, Ft. Burwell.
Pt. Elgin Queen (Can.)	Wood	37	52'4"	14'4"	6'3"	1886						Wm. Gillies, St. Edmund.
Potter, Geo. R.	Wood	133	77'6"	20'3"	8'8"	1887						Buffalo Fire Dept., Buffalo.
Princeton	Iron	43	57'	15'7"	8'4"	1882	H P	18x22	1 Fire Box	7'2"x13'	1896	G. L. Towing Co., Cleveland.
Pringle, Robt C.	Wood	141	98'	22'	8'5"	1903	Triple	12-19-32x20	1 Scotch	10'x11'	1903	Pringle B. L. Co., Cleveland.
Pringle, Walter R.	Wood	251	98'	30'	19'	1890	F & A	20-38x24	1 Fire Box	9'6"x15'	1890	Pringle B. L. Co., Cleveland.
Fryor, Ethel J.	Wood	18	46'	12'	5'8"	1890						James Pryor, Houghton.
Fup	Wood	13	45'	12'	5'	1894	H P	12x14	1 Fire Box	5'x8'	1894	Herman Kaden, Sheboygan.
Puritan	Wood		71'	19'	5'	1894						Emma Roeder, Buffalo.
Puritan	Wood	20	59'	13'	5'	1892	H P	12x16	1 Fire Box	4'6"x9'	1892	J. P. Harrington, Erie.
Queen	Wood	29	51'	14'	6'	1897						G. A. Boldt, Alexandria Bay.
Racine	Steel	65	78'	17'	11'6"	1914	H P	20x26	1 Fire Box	7'x12'	1914	G. L. Towing Co., Cleveland.
Ralph	Wood	42	60'	15'	7'6"	1874	H P	18x18	1 Fire Box	6'8"x11'	1877	Walter Peppler, Alpena
Ranger	Wood	14	46'1"	10'6"	4'3"	1888	H P	8x8	1 Fire Box	3'6"x5'		Thomas Walsh, Kenora.
Reckinger, P.	Wood	42	61'	14'	7'	1892	H P	14x16	1 Fire Box	5'3"x10'	1892	H. Van Ells, Pt. Washington.
Record	Steel	59	68'	17'	9'	1884	H P	21x20	1 Fire Box	7'x13'	1884	G. L. Towing Co., Cleveland.
Reginald (Can.)	Wood	265	120'6"	20'	9'7"	1894						Victoria L. Co., Toronto.
Reidenbach, R. P.	Steel	71	68'	17'	11'	1910	H P	22x24	1 Fire Box	8'x13'		G. L. Towing Co., Cleveland.
Reid, Aggie B. (Can.)	Wood	17	43'	12'	4'	1897						R. C. Reid, Cockburn Island.
Reiss, Peter	Wood	95	76'	20'	12'	1906	H P	24x26	1 Fire Box	8'6"x14'		Reiss Coal Co., Sheboygan.
Relief	Wood	34	71'	16'6"	4'	1878	H P	16x22	1 Fire Box	6'x12'	1893	H. Schultz, Chicago.
Rescue (Can.)	Wood	52	62'	16'	7'	1885	H P	22x16	1 Fire Box	5'x12'3"	1886	Rathbun Co., Deseronto.
Rhea	Wood	10	37'9"	10'7"	4'1"	1907						A. J. Storms, Duluth.
Ripple (Can.)	Wood	13	39'6"	9'5"	4'5"	1902						Jno. S. Thom, Quebec.

TUGS OF THE GREAT LAKES—Continued.

NAME	Construc- tion	Gross Tonnage	DIMENSIONS			Year Built	ENGINES		BOILERS			OWNERS
			T	B	D		Type	Size	Type	Size	Built	
Riter, C. W. (Can.)...	Wood	41	54'	16'	8'6"	1876	H P	15x17	1 Fire Box	6'x10'4"	1889	S. L. Penkarwood, Sault Ste M.
Rockett . . . . .	Steel	39	62'6"	15'	7'6"	1902	F & A	9-16x12	1 Fire Box	5'x8'6"	1902	Wm. Tallman, Erie.
Rolar, Wm. (Can.) ..	Wood	36	56'	16'	8'	1882						A. B. McLean, Sault Ste Marie
Roma . . . . .	Wood	15	57'	11'3"	4'	1900						Louis Strueber, Erie.
Rooney, W. E. (Can.)	Wood	11	41'	13'	4'	1873	H P	12x12	1 Fire Box	4'4"x8'	1874	Jno. Lee, Wallaceburg.
Roy, R. T. . . . .	Wood	23	54'	14'	6'	1891						Isabella Lincoln, Alpena.
Ronvira . . . . .	Steel	35	56'6"	14'4"	6'6"	1900						Ranney Fish Co., Cleveland.
Runnells, D. N. ....	Wood	37	59'	15'	7'	1890	H P	16x16	1 Fire Box	6'x11'	1890	Hackett S. & T. Co., Detroit.
Russell (Can.) . . . . .	Steel	76	79'8"	17'	7'	1896						W. C. Edwards & Co. Rockland
Ryan, C. C. . . . .	Wood	28	52'	14'6"	5'4"	1881	H P	16x16	1 Fire Box	5'3"x11'6"		Beaver Island L. Co. St. James
Ryerson, Carrie R. ...	Wood	72	66'	17'6"	7'6"	1883	H P	16x20				Wm. Brinen, Muskegon.
Sabin, L. C. . . . .	Steel	98	74'	20'	11'6"	1908	H P	19 1-4x24	1 Fire Box	12'x9'6"		G. L. Towing Co., Cleveland.
Saginaw (Can.) . . . . .	Wood	357	142'	25'	18'	1873	N C	20-20x30	2 Fire Box	6'6"x15'	1886	E. A. Booth, Kingston.
Salvor (Can.) . . . . .	Wood	126	106'	21'	9'6"	1898						G. L. Dredging Co., Pt. Arthur
Sandusky . . . . .	Steel	72	68'8"	17'	11'	1912	F & A	14-28x24	1	7'x12'	1912	G. L. Towing Co., Cleveland.
Sanford (Can.) . . . . .	Wood	56	72'	16'5"	7'5"	1897						James Hunter, Warton.
Sardinia . . . . .	Wood	35	61'	17'	6'9"	1903						Davidson S. S. Co., Bay City.
Sarnia (Can.) . . . . .	Wood	85	66'8"	21'	11'	1901	H P	20-20x20	1 Fire Box	9'x14'		G. L. D. Co., Pt. Arthur.
Sarnia City (Can.) ..	Wood	223	105'	25'	14'		Triple	14-24-42x30	1 W T	11'6"x12'6"	1903	Reid Towing & W. Co., Sarnia
Satisfaction . . . . .	Wood	47	64'	16'	8'	1894	H P	17x19	1 Fire Box	6'x12'	1891	Anderson & S., Marinette.
Saugatuck . . . . .	Wood	88	84'	17'6"	8'	1875	Stple	16-30x26	1 Fire Box	7'6"x15'	1880	J. Schroeder. L. Co. Milwaukee
Schaefer, Phil. G. ....	Wood	29	64'4"	14'3"	5'	1903						Chas. J. Day, Buffalo.
Scott, Mary . . . . .	Wood	47	74'	16'2"	6'	1892	Stple	8-14x14	1	4'8"x10'	1892	W. Turgeon, Ashland.
Sea Gull (Can.) . . . . .	Wood	51	51'2"	14'	5'2"	1862						Henry Bell, Sault Ste Marie.
Sea King (Can.) . . . . .	Wood	26	58'	13'6"	5'2"	1892						Dominion Fish Co., Winnipeg.
Sea Queen (Can.) ...	Wood	18	52'	12'1"	4'6"	1892						Dominion Fish Co., Winnipeg.
Sea Wing . . . . .	Wood	39	69'5"	16'9"	5'8"	1889						C. F. Muschler, Sandusky.
Seymore, G. D. . . . .	Wood	76	90'	17'	10'	1875	Stple	18-32x26	1 Fire Box	6'x14'	1901	Geo. Hall C. Co., Ogdensburg
Seymore, W. H.(Can.)	Wood	85	66'	17'	8'6"	1874	H P	20x17	1 Fire Box	7'6"x13'	1895	North C. T. Co., Cutler.
Shauley (Can.) . . . . .	Wood	50	53'5"	14'5"	6'2"	1908						Parry S. L. Co., Parry Sound.
Shaughraun . . . . .	Iron	45	60'	15'	8'	1883	H P	18x22	1 Fire Box	6'6"x12'5"	1894	Dunbar & Sullivan, Buffalo.

TUGS OF THE GREAT LAKES—Continued.

NAME	Construc- tion	Gross Tonnage	DIMENSIONS			Year Built	ENGINES		BOILERS			OWNERS
			L	B	D		Type	Size	Type	Size	Built	
Shaun Rhue . . . . .	Iron	79	65'8"	17'2"	7'8"	1901						Dunbar & Sullivan, Buffalo.
Sheldon, Cora A. ....	Wood	54	65'	16'7"	9'3"	1883						Geo. Croze, Houghton.
Sheridan, Phil . . . . .	Steel	35	58'	14'	7'	1889						Dunbar & Sullivan, Buffalo.
Shickluna, L. (Can.)..	Wood	16	45'4"	11'	5'7"	1878						Jas. Murray, St. Catherines.
Sidonie . . . . .	Wood	13	44'	12'	6'	1898						J. S. Porter, Sheboygan.
Siebold, W. H. (Can.)	Wood	22	58'	12'2"	6'	1887						Dominion Fish Co., Winnipeg.
Silver Spray . . . . .	Wood	33	68'4"	16'7"	6'5"	1898						Jno. Lar, Sandusky.
Simpson, W. H. . . . .	Wood	49	63'	19'	8'	1889	H P	20x24	1 Fire Box	7'6"x12'	1889	Milwaukee T. B. L, Milwaukee
Sinclair, J. R. . . . .	Steel	71	76'6"	18'5"	10'2"	1907	H P	22x22	1 Fire Box	8'6"x13'	1907	G. L. Towing Co., Cleveland.
Sin Mach (Can.) . . . .	Steel	322	130'	26'	14'	1909	Triple	17½-28-46x36	1 Scotch	15'x11'9"	1909	S.-McN. L., Ltd., Montreal.
Sir Nector (Can.) . . . .	Wood	40	71'	15'5"	6'3"	1891						Ottawa Transp. Co., Ottawa.
Siskevit (Can.) . . . . .	Wood	61	63'	15'6"	8'5"	1876	H P	18x18	1 Fire Box	6'7"x12'		Thunder Bay C. Co., Pt. Arthur
Smith, A. J. (Can.)... .	Wood	387	117'	23'6"	16'	1876	Stple	17-36x36	1 Scotch	11'6"x13'	1893	N. Channel T. Co., Cutler.
Smith, Annie L. . . . .	Wood	43	61'4"	15'6"	9'	1868	H P	18x20	1 Fire Box	7'x12'	1893	United F. & S. Co., Detroit.
Smith, Chas. O. . . . .	Wood	63	74'	17'	8'4"	1863	Stple	14-38x22	1 Fire Box	7'6"x12'	1884	W. L. Martin, Cheboygan.
Smith, J. E. . . . .	Wood	50	72'7"	16'3"	6'8"	1903						F. E. Nettleton, Dunkirk.
Smith, L. P. . . . .	Steel	73	67'	18'	9'	1894	H P	18x20	1 Fire Box	6'6"x12'	1891	G. L. D. & D. Co., Chicago.
Smith, Sidney T. . . . .	Wood	70	85'	18'	9'	1895	F & A	15-30x24	1 Scotch	8'4"x14'		Michael Sullivan, Detroit.
Sprankle, J. R. . . . .	Steel	44	59'	16'	9'	1894	H P	18½x18½	1 Fire Box	5'2"x11'	1882	G. L. Towing Co., Cleveland.
Spray (Can.) . . . . .	Wood	24	49'2"	12'2"	4'2"	1882						J. S. Thom, Quebec.
Spray (Can.) . . . . .	Steel	107	100'1"	17'	10'4"	1893						S.-McN. L., Ltd., Montreal.
Stafford, Alice . . . . .	Steel	141	75'6"	22'	12'9"	1914	F & A	17-36x30	1 Fire Box	10'6"x14'	1914	F. L. & Imp. Co., New York.
Stalker, H. (Can.) ... .	Wood	43	72'3"	15'7"	6'3"	1910						G. Stacker, Collingwood.
Starke . . . . .	Wood	49	65'	19'	8'	1889	H P	22x26	1 Fire Box	7'6"x12'	1889	Milwaukee T. B. L., Milwaukee
Starke, Conrad . . . . .	Steel	153	82'	22'	13'3"	1913	H P	26x30	1 Fire Box	12'x15'	1913	Milwaukee T. B. L., Milwaukee
Stella . . . . .	Wood		51'	10'	4'	1899						S. S. Fifield, Ashland.
Stephenson, Bob . . . . .	Wood	18	50'	13'5"	6'2"	1872	N C	14x6	1	4'6"x9'	1879	S. A. Carcon, Cheboygan.
Stevenson, Win . . . . .	Wood	34	51'	15'	6'	1887						L. E. Dredging Co., Buffalo.
Stewart, A. (Can.) ... .	Wood	80	81'5"	18'8"	7'3"	1890						Ottawa T. Co., Ottawa.
Stewart, Graeme . . . . .	Steel	309	104'	28'2"	16'2"	1908						Chicago Fire Dept., Chicago.
Stewart, J. C. (Can.) . .	Steel	94	71'	20'	8'7"	1915	F & A	14-30x24	1 Scotch	10'3"x11'	1915	Canadian S. Co., Toronto.
Stickney, Matt . . . . .	Wood	77	81'	18'	9'	1880						G. L. D. & D. Co., Chicago.

TUG OF THE GREAT LAKES

NAME	Construc- tion	Gross Tonnage	DIMENSIONS			Year Built	ENGINES		BOILERS			OWNERS
			L	B	D		Type	Size	Type	Size	Built	
Stone, Ella G. ....	Wood	42	69'	15'	9'	1881	H P	18x20	1 B W	12'x13'		G. L. D. & D. Co., Chicago.
Storey, James (Can.)	Wood	49	63'	14'2"	7'3"	1888						H. W. Saxton, Aylmer.
Stover, Jno. R. (Can.)	Steel	94	67'	18'	9'	1911	F & A	12-26x16	1 Scotch	9'6"x10'	1911	Blind R. T. Co., Blind River.
Stricher, C. B. ....	Wood	22	56'8"	13'5"	6'2"	1892	H P	10x12	1 Fire Box	4'x8'	1892	C. A. Mattison, Vermilion.
Strohn, C. B. ....	Wood	25	49'3"	14'7"	5'3"	1888						J. R. Pickands, Cheboygan.
St. George (Can.) ....	Wood	68	77'1"	15'5"	7'6"	1892						D. Anderson, Montreal.
St. George (Can.) ....	Wood	21	61'5"	12'3"	6'	1886						F. Simpson, Toronto.
St. Louis (Can.) ....	Wood	56	69'4"	15'8"	7'2"	1876						Montreal S. & G. Co., Montreal
St. Paul (Can.) ....	Wood	45	65'5"	15'	8'	1875						Minister of P. Wks., Ottawa.
St. Peter (Can.) ....	Wood	66	65'6"	16'1"	8'6"	1875						Harbor Com., Montreal.
Sunbeam . . . . .	Wood	53	68'	17'	7'	1891						R. Smith, Pt. Sheybogan.
Superior . . . . .	Wood	70	68'9"	20'	10'6"	1896	H P	22x24	1 Fire Box	8'x14'	1896	G. L. Towing Co., Cleveland.
Sutton, Jr., E. W. ...	Wood	33	59'1"	13'2"	6'	1902						E. W. Sutton, Jr., Buffalo.
Swan . . . . .	Wood	14	53'	11'2"	4'6"	1895						H. Swan, Pt. Burwell.
Tacoma . . . . .	Wood	76	73'	18'	9'	1894	F & A	16-30x24	2 Fire Box	8'x16'		C. J. Connell, Chicago.
Tam O'Shanter . ....	Wood	23	49'	14'6"	6'6"	1892	H P	14x16	1 Fire Box	5'6"x10'	1892	Wm. Majo, Duluth.
Taylor, J. O. ....	Wood	40	61'	15'	8'6"	1881						Harry Nichols, Charlevoix.
Taylor, W. S. ....	Wood	318	126'	24'	13'	1907	F & A	22-50x36	1 Scotch	13'8"x11'6"	1907	Nau Tug Line, Green Bay.
Teed, Bob . . . . .	Wood	45	64'2"	18'7"	8'7"	1883						N. E. Hugo, Duluth.
Tempel, Emery . . . . .	Wood	88	83'	21'	10'	1886	Stple	19-32x26	1 Fire Box	7'8"x13'6"		Buffalo D. Co., Buffalo.
Tempest . . . . .	Wood	14	40'	11'	5'	1884						Wm. Jeffery, Duluth.
Tessler, A. A. C. ....	Wood	30	59'	14'	7'	1898						Jno. Hollander, Pt. Washington
Texas . . . . .	Steel	98	78'	20'	12'	1916	Simple	23x28	1	8'x12'	1916	G. L. Towing Co., Cleveland.
Theora . . . . .	Wood	73	62'	14'	6'	1893						Jno. Parker, Marquette.
Third Michigan . . . . .	Wood	42	62'	14'	7'	1869	H P	16x16	1 Fire Box	5'8"x10'	1892	Schnorbach G. Co., Ludington.
Thistle (Can.) . . . . .	Wood	36	61'	15'	6'7"	1881						Rondeau Tug Co., Blenheim.
Thompson, C. D. ....	Wood	91	81'	19'	11'	1893	H P	22x26	1 Fire Box	8'6"x14'	1893	T. L. Durscher, Sault Ste M.
Thompson, D. G.(Can)	Wood	182	103'3"	17'3"	9'8"	1873						Nels Olsen, Menominee.
Thompson, Thomas ..	Wood	19	49'	14'	6'	1883	F & A	19-34x26	1 Fire Box	9'6"x13'	1892	Montreal T. Co., Montreal.
Toledo . . . . .	Steel	64	68'8"	17'	11'	1915	H P	22x24	1	7'x13'	1915	G. L. Towing Co., Cleveland.
Tonawanda . . . . .	Wood	31	59'	15'	8'	1893	H P	16x19	1 Fire Box	6'4"x11'		W. J. Scott, Oswego.

TUGS OF THE GREAT LAKES—Continued.

NAME	Construc- tion	Gross Tonnage	DIMENSIONS			Year Built	ENGINES		BOILERS			OWNERS
			L	B	D		Type	Size	Type	Size	Built	
Torsand (Can.)	Wood	56	57'	16'	7'7"	1889	H P	16x20	1 Fire Box	7'x12'	1893	Toronto S. & G. Co., Toronto.
Torrent	Steel	296	110'	28'	15'	1910	H P	20x22	2 Scotch	13'9"x11'6"	1910	Duluth & I. R. R. R. Duluth.
Tramp, The	Wood	41	60'	15'	8'	1890						Jno. Hawley, Ontonagon.
Traveler (Can.)	Wood	438	140'	24'	19'1"	1871	F & A	25-54x36	2 Fire Box	9'x14'	1898	Pulpwood Co., Appleton.
Trotter, M. E. (Can.)	Wood	49	69'6"	16'5"	8'4"	1881	H P	20x20	1 W T		1908	Fred J. Trotter, Amherstburg
Troy, Henry	Wood	27	61'	14'	6'	1891	H P	13x12	1 Fire Box	5'3"x8'6"	1891	Wm. Lehman, Milwaukee.
Truby, J. M.	Steel	113	71'	20'	11'6"	1910	F & A	15-30x26	1 Fire Box	8'6"x13'		G. L. Towing Co., Cleveland.
Two Bros.	Wood	37	54'	14'	7'	1891	H P	14x14	1 Fire Box	4'6"x10'		J. P. McGinn, Milwaukee.
Two Maco (Can.)	Wood	24	50'	12'	6'	1880						Robt. McKay, Goderich.
Umbria (Can.)	Wood	53	58'	15'2"	6'2"	1889						James Murray, St. Catherines.
Uncle	Wood	14	49'	13'5"	4'	1900						Keystone Fish Co., Erie.
Upham, J. H. (Can.)	Wood	26	44'	14'	7'6"	1880						G. H. Finent, Pt. Arthur.
Valerie	Wood	58	69'	18'	7'	1872	H P	16x16	1 Fire Box	5'6"x13'		Jos. Croze, Houghton.
Veleria M. (Can.)	Steel	31	57'5"	11'	5'	1872	H P	12x14				Win. Lowery, Sault Ste Marie.
Vermont	Steel	99	85'	20'	12'6"	1914	H P	23x28	1	8'x12'	1914	G. L. Towing Co., Cleveland.
Victor (Can.)	Wood	35	59'	14'6"	6'4"	1875						E. A. Morgan, Montreal.
Virginia	Wood	20	72'	11'	4'	1897						D. Wagner, Alexandria Bay.
Virginia (Can.)	Wood	146	107'	24'	10'8"	1875						Sincennes-McN. L., Montreal.
Virginia	Steel	99	85'	20'	12'6"	1914	H P	24x26	1	8'x12'	1914	G. L. Towing Co., Cleveland.
Visitor	Steel	145	85'6"	18'10"	7'9"	1892	Trip.	9¼-14½-24x14	1	7'3"x10'6"		Dunbar & Sullivan, Buffalo.
Vixon (Can.)	Wood	68	48'	13'8"	5'	1885						J. H. McCaul, Sault Ste Marie.
Volunteer	Wood	34	58'	10'	5'	1887						J. Martell, DePere.
Volunteer	Wood	20	49'	11'	4'	1888						A. Roeser, Sister Bay.
Wales (Can.)	Wood	350	126'	24'	11'	1881	H P	22x20	2 Fire Box	7'x15'		Wescott W. Co., Sarnia.
Walker, T. B.	Steel	18	41'9"	11'7"	5'6"	1902						Arthur Wilson, Erie.
Wallace, Geo. A.	Steel	112	74'	20'6"	11'6"	1916	H P	18-18x20	1 Scotch	11'x11'6"		City of Cleveland, Cleveland.
Walrus (Can.)	Wood		45'	7'4"	4'		Comp	6½x6				Fulpwood Co., Appleton.
Ward, J. W. (Can.)	Wood	64	63'9"	16'2"	7'8"	1891						Pt. Arthur C. Co., Pt. Arthur.
Warwick, W. J.	Steel	21	36'	12'	7'	1901						White Star T. L., Buffalo.

TUGS OF THE GREAT LAKES—Continued.

NAME	Construc- tion	Gross Tonnage	DIMMENSIONS			Year Built	ENGINES		BOILERS			OWNERS
			L	B	D		Type	Size	Type	Size	Built	
Waubauskene (Can.)	Wood	135	78'	18'5"	12'6"	1904						Georgian B.L.Co.Waubauskene
Waukegan . . . . .	Steel	71	68'8"	17'	11'	1912	H P	20x26	1	7'x12'	1912	G. L. Towing Co., Cleveland.
Wauwatosa . . . . .	Steel	140	75'6"	22'	13'	1913	F & A	18-38x30	1	Fire Box 10'6"x14'	1913	Erie L. & I. Co., New York.
Weaver, R. G.A.(Can.)	Wood	81	61'6"	16'8"	8'4"	1886	F & A	15-30x22	1	Scotch 7'6"x17'6"	1892	Montreal Trans. Co., Montreal
Weitzel, Gen. (Can.)	Wood	32	51'	12'	5'9"	1881						W. H. Plummer, Sault Ste M.
Welcome . . . . .	Wood	58	68'	17'	10'	1890	N C	21x22	1	Fire Box		G. L. D. & D. Co., Chicago
Welcome . . . . .	Wood	77	85'	20'	10'	1890						Milwaukee T. B. L., Milwaukee
Welcome . . . . .	Wood	10	43'	12'	4'	1888						T. Goodman, Washington Hbr.
Welcome (Can.) . . . .	Wood	21	52'	11'	5'2"	1886						Thomas Falls, Meldrun Bay.
Whalen, Edw. (Can.)	Steel	113	76'	19'	11'	1913	Stple	14½-29x22	1	Fitz 6'x12'	1910	G. L. D. Co., Chicago.
Whalen, James (Can.)	Steel	313	108'	24'	13'	1905	F & A	20-40x26				C. I. & W. Co., Pt. Arthur.
Whitehaven . . . . .	Wood	22	45'	13'	6'	1889						Jno. W. Fisher, Buffalo.
Wilcox Co., M. I. . . . .	Wood	14	41'	12'	6'	1880	H P	13x14	1	Fire Box 4'10"x8'6"	1887	J. R. Beucher, Toledo.
Williams, C. E. . . . .	Steel	98	75'4"	21'	10'5"	1907	Stple	16-30x26	1	Scotch 11'x12'	1907	Buffalo D. Co., Buffalo.
Williams, J. L. . . . .	Wood	51	67'	17'	9'	1883	H P	18x20	1	Fire Box 6'6"x10'		E. F. England, Duluth.
Williams, Jno. (Can.)	Wood	14	36'	10'9"	4'	1888						W. W. Carter, Fesserton.
Williams, P. (Can.) ..	Wood	164	163'	21'5"	10'	1911	F & A	15-28x20	1	Fire Box 7'x12'	1892	H. Sutherland, Winnipeg.
Wisconsin . . . . .	Steel	98	85'	20'	12'6"	1914	H P	25x28	1	8'x12'	1914	G. L. Towing Co., Cleveland.
Witch . . . . .	Wood	44	60'	18'	7'2"	1904						Win. H. Sharp, Bay City.
Woods, Arthur . . . . .	Wood	37	54'6"	15'6"	6'	1888						Breakwater Co., Cleveland.
Wylands, J. L. . . . .	Wood	27	60'	14'	5'6"	1885						Penna Fishing Co., Erie.
Yale . . . . .	Steel	99	71'	20'	11'6"	1909	H P	23x28	1	Fire Box 8'5"x14'	1898	G. L. Towing Co., Cleveland.
Yates, Florence . . . . .	Wood	32	58'	15'	7'	1875						Yates Coal Co., Rochester.

## APPOINTMENTS OF CAPTAINS TO LAKE VESSELS, 1919

Steamers	Captains	Barges	Captains		
Adams, Cuyler—Wm. Stevenson.		A-D—Patrick Leboeuf.		Brown, H. H.—T. H. Saunders.	Chisholm, A. S.—E. B. Secor.
Adriatic—Kenneth McRae.		Arthur—Wm. J. Keenan.		Brown, J. J. H.—L. A. Rand.	Chicora—B. J. Roberts.
Agassiz, R. L.—Geo. McGarry.		Ashland—Ernest Call.		Brown, Wm. L.—G. C. Hibbard.	Chief Wawatam—W. P. Robert-
Agawa—J. D. Montgomery.		Aurora—James Erickson.		Brown, W. W.—Dan Wilman.	son.
Agnew, W. C.—H. A. Stewart.		<b>Steamers Captains</b>		Buckley, Edw.—F. Gunderson.	Chippewa—Wm. C. McCarty.
Alaska—Joseph E. Mahon.		Baker, H. H.—J. T. Gemmel.		Buel, F. R.—Jos. E. Hayes.	Christie, T. S.—Hans Hansen.
Alabama—G. E. Stufflebeam.		Ball Bros.—F. R. Slater.		Buffalo—W. H. Stevenson.	Christopher—H. Oertling, Jr.
Alberta—John McIntyre.		Ball, F. C.—C. C. Tousley.		Buffington, E. J.—H. J. Regan.	Christopher Columbus—C. E.
Algolah—G. W. Boynton.		Barlum, J. J.—A. J. Mahon.		Bunsen, R. W. E.—D. Elliott.	Moody.
Allegheny—Edw. J. Martin.		Barlum, Thomas—Richard Cain.		Butler, Jas. G., Jr.—Emil Detlefs.	City of Alpena—J. A. Hyatt.
Alpena—Geo. W. Moore.		Barnum, G. G.—Ernest Warwick.		Byers, A. M.—H. R. Winkler.	City of Bangor—James Madigan.
Amazon—H. J. Scheible.		Barth, L. L.—Louis Thossen.		Bacon, M. S.—A. McDonald.	City of Benton Harbor—A. J.
Amberg, Wm. A.—J. L. Auttersen.		Belgium—Ben Broderick.		Barlum, J. J.—Abner Jackman.	Simons.
America—E. C. Smith.		Berry, B. F.—Frank C. Pratt.		Bell, Sir I. L.—J. H. Denner.	City of Cheboygan—Geo. Waugh.
America—A. Mouk.		Bessemer, Sir Henry—H. D.		Bottsford, R.—A. D. Sheldon.	City of Cleveland, 3rd—Dan Mc-
Americana—John McLeod.		Roach.		Brightie—Jno. O'Brien.	Kay.
Andaste—M. E. Bostwick.		Bielman, C. F., Jr.—Jos. Flaherty.		Bryn Mawr—A. Nordahl.	City of Detroit, 2nd—E. Grose.
Andrews, M.—H. W. Stewart.		Billing's Frank—F. B. Cody.		<b>Steamers Captains</b>	City of Detroit, 3rd—E. Hayward.
Angeline—W. H. Cousin.		Bixby, W. K.—Wm. Jagenow.		Cabotta—Walter Mills.	City of Grand Rapids—M. F.
Ann Arbor 3—B. H. Hanson.		Black, C. A.—H. Kulp.		Cadillac—F. W. Watson.	Morgan.
Ann Arbor 4—C. Frederickson.		Black, H. F.—H. Wendorf.		Calcite—Jas. W. Parsons.	City of Mackinac—L. C. DeNike.
Ann Arbor 5—B. F. Tullidge.		Block, Joseph—A. A. Clarke.		Calumet—I. K. Emerson.	City of Ignace—A. J. Palmer.
Ann Arbor 6—O. G. Gunderson.		Boland, J. J.—Wm. L. Mont-		Campbell, J. A.—James Jackson.	City of St. Joseph—Oscar Bjork.
Arcturus—J. L. Weeks.		gomery.		Canadiana—Alfred Johnson.	City of So. Haven—F. A. Derity.
Argo—W. U. Randall.		Boeckling, G. A.—H. J. Witchen.		Canopus—A. R. Beall.	City of Toledo—Chas. Merkel.
Argus—G. E. Anderson.		Booth, E. L.—W. G. Rogers.		Caribou—A. A. Batten.	Clarke, E. A. S.—J. H. Lowes.
Ariel—Wm. Carr.		Boston—John Kennedy.		Carolina—D. I. McGarity.	Clement, S. M.—Martin Walle.
Arizona—M. D. Mackey.		Boyce, Mary H.—Fred Loveless.		Carter, W. J.—J. Joyner.	Clemson, D. M.—J. LaFramboise.
Arrow—Harry Tyrie.		Bradley, C. D.—Wm. J. McLean.		Central West—Phillip E. Rouvel.	Clinton—M. E. Hettrick.
Ashley, J. S.—Chas. S. Ellis.		Bradley, C. H.—Wm. J. Cowles.		Centurion—J. L. Bradshaw.	Colborn, A. R.—Wm. Hamilton.
Ashtabula—Chas. F. Meyers.		Bradley, M. A.—J. W. Duddleson.		Cepheus—Geo. Dupuie.	Call, T. F.—Geo. Randolph.
Assiniboia—J. McConnell.		Brazil—A. R. McLeod.		Cetus—J. N. Morrison.	Colen, W.—E. Groulx.
Athabasco—Murdoch McKay.		Breitung, C. G.—James Buchanan.		Chamberlin, C. W.—J. Martin.	Collins, E. C.—H. T. Kelley.
Augustus, A. A.—C. L. Seelye.		Brittania—Demase, Jacques.		Chicago—A. McPherson.	Colonel—W. K. Nesbitt.
Australia—J. A. Logan.		Brower, A. G.—Pat McCarthy.		Chipman, Susie—N. A. Gunder-	Columbia—John J. Denstadt.
Avon—J. Gallagher.		Brown, Fayette—J. M. Duddleson.		son.	Cavanaugh—J. J. Lehan.
					Conger, O. D.—Wm. A. Major.

APPOINTMENTS OF CAPTAINS TO LAKE VESSELS, 1919—Continued

Conneaut—W. H. Yates.  
 Cooke, D. W.—P. C. Ferrell.  
 Corey, W. E.—Geo. Burt.  
 Coralia—C. E. Peters.  
 Cornelius, A. E.—David Elliott.  
 Cornell—John Murray.  
 Corvers—P. A. Peterson.  
 Coulby, Harry—A. W. Stalker.  
 Cowle, J. B.—C. Z. Montague.  
 Crawford, G. G.—W. C. Iler.  
 Crawford, W. D.—J. H. Hesson.  
 Cowan, W. P.—C. D. Brown.  
 Crescent City—Andrew Grant.  
 Crete—B. F. Ogden.  
 Craft, H. W.—W. L. Girardin.  
 Curry, S. S.—J. A. Edwards.  
 Cygnus—Robert Recor.

**Barges Captains**

Carrington—H. M. Saveland.  
 Case, J. I.—Theo. Birkeland.  
 Chattanooga—L. Fox.  
 Chicamauga—Carl Johnson.  
 Constitution—P. A. Mallette.  
 Corless, Geo. H.—John Campbell.  
 Corning, Ida—Matt Glessner.  
 Crete—Alex Mills.  
 Cutler, D. G.—Wm. Sommerville.

**Steamers Captains**

Dalton, H. G.—L. W. Stone.  
 Dalhousie City—Geo. W. Blanchard.  
 Davidson, J. E.—W. C. Jones.  
 Davidson, Thomas—J. Doak.  
 Davidson, L. R.—Hugh McCann.

Dawson, Sir Trevor—H. Hinslea.  
 Davock, W. B.—W. B. McDonald.  
 Delaware—Alex McKenzie.  
 Denmark—R. J. Walder.  
 Derbyshire, Senator—R. Chatel.  
 Detroit—F. A. Huntoon.  
 Dickson, W. B.—W. S. Hoag.  
 Denmark, J. K.—M. K. Donner.  
 Dinkey, A. C.—John Nahrstedt.  
 Donaldson, J. A.—E. W. May.  
 Donaldson, J. P.—C. Rattray.  
 Donner, W. H.—O. J. Soleau.  
 Duluth—F. D. Osburn.  
 Dunham, J. S.—L. B. Cummings.  
 Dunn, Jas., Jr.—Geo. W. Pierce.  
 Durston, J. F.—F. B. Parsons.  
 Dolphin (Tug)—Zeno Lavinge.

**Barges Captains**

Davis, L. M.—Colin Graham.  
 Dayton—A. Briggs.  
 Delaware—R. G. Taylor.  
 Delta—Ralph McGrath.  
 Dobbins, D. P.—P. McManus.

**Steamers Captains**

Eads, J. B.—Geo. Bolhouse.  
 Earling, E. J.—E. Fitch.  
 Eastern States—John Lightbody.  
 Easton—D. N. Laroche.  
 Edenborn, Wm.—H. D. McLeod.  
 Elba—J. D. Baird.  
 Ellwood, I. L.—H. Clegg.  
 Elphicke, M. C.—F. Sturtevant.  
 Elva—Wm. Stewart.  
 Empire City—C. J. Kerns.  
 England, R. W.—Harry Howard.

Erickson, Jno.—H. Ashby.  
 Essex—J. E. Rathbun.  
 Excelsior—Henry Heiser.

**Barges Captains**

Eddy, J. F.—Dan Fox.  
 Ewen, F. D.—Aimie Monette.

**Steamers Captains**

Fairburn, Sir Wm.—J. A. Munson.  
 Farrell, J. A.—Sam C. Allen.  
 Fellowcraft—Wm. Nicholson.  
 Filbert, W. J.—Geo. H. Lane.  
 Fitch, W. L.—Samuel Brines.  
 Fitzgerald, R. P.—Theo. Emig.  
 Fitzgerald, W. E.—A. C. Cullen.  
 Fleetwood—W. J. Willoughby.  
 Florence (Tug)—V. Gendron.  
 Follette, J. W.—C. A. Maloney.  
 Ford, E. L.—D. C. Sullivan.  
 Ford, J. C.—Claude Ellis.  
 Foster, Parks—Wm. Rinn.  
 Franz, W. C.—W. C. Jordan.  
 French, G. W.—W. Witte.  
 Frick, H. C.—W. E. Stover.  
 Florence (Tug)—E. Lefever.

**Barges Captains**

Filmore, C. J.—J. F. Hagerty.  
 Francombe, J. A.—K. Peterson.  
 Fritz, Jno.—H. M. White.  
 Fryer, R. L.—Sam Christopher.

**Steamers Captains**

Garland—Frank Howard.  
 Garretson, Gen.—E. R. Norton.

Garey, E. H.—A. C. Hansen.  
 Gates, J. W.—A. C. Mosher.  
 Georgia—Geo. Brookhyser.  
 Gill, A. M.—J. N. Peterson.  
 Glenallen—A. G. Clark.  
 Glenfinnan—W. A. Linton.  
 Glenarchy—Fred Burke.  
 Glenisla—James Tindell.  
 Glenlivet—R. Burke.  
 Glenlyon—A. A. Hudson.  
 Glenshee—W. A. Lavigne.  
 Gogebic—Wm. Quinlan.  
 Goodyear, F. H.—Chas. B. Galton.  
 Goulder, H. D.—Alex McDonald.  
 Grammer, G. J.—F. A. Robinson.  
 Grand Island—W. L. Mooney.  
 Grand Haven—Thomas Traill.  
 Great Western—Frank Bousette.  
 Green, C. H.—Gus Gunderson.  
 Greene, M. T.—D. J. Gordon.  
 Greyhound—W. G. Adams.  
 Groh, Mary—Edw. Ohlemacher.  
 Gunnell, E.—

**Barges Captains**

Gawn, Thomas—J. Lawrence.  
 Georges, F. A.—Sam Le Bocuf.  
 Gladys H.—L. Leduc.  
 Godfrey, J.—T. L. Leduc.  
 Golden Age—Bert Peltier.  
 Goshawk—Alex McCormick.

**Steamers Captains**

Hackett, J. H.—Wm. Allison.  
 Hackett, M. A.—M. Allison.  
 Haddington—



APPOINTMENTS OF CAPTAINS TO LAKE VESSELS, 1919—Continued

Hall—J. C. Barclay.  
 Hamonic—A. L. Campbell.  
 Hanna, D. R.—S. B. Massey.  
 Hanna, Jr., H. M.—Richard Call.  
 Hanna, L. C.—C. C. Hanley.  
 Harlow—J. M. Shackett.  
 Harriet B.—Theo. Clawson.  
 Hart, F. W.—O. A. Johnson.  
 Harvard—A. R. Thompson.  
 Harvester—Wm. Smith.  
 Harvey, A. F.—J. A. Smith.  
 Hazard, F. R.—W. A. DeLand.  
 Hazard, W. A.—Guy H. Taylor.  
 Hebard, C. S.—Wm. F. Gardner.  
 Hecla—Henry Russell.  
 Helen, C.—A. Papineau.  
 Hemlock—L. J. Lavelly.  
 Hennipin—J. A. Brownell.  
 Hettler, H. H.—R. T. Evans.  
 Hiawatha—E. M. Thomas.  
 Hill, J. J.—C. D. Brown.  
 Hill, L. U.—Geo. B. Brock.  
 Hilton—H. R. Lively.  
 Holland—Edw. Miller.  
 Hoover & Mason—C. L. Piotter.  
 Horn, Chas.—Christ Edwardson.  
 Houghton, H.—J. H. Ivers.  
 Houghton, Douglas—W. E. Warner.  
 House, F. E.—John Park.  
 Howard, W.—Capt. Dagnevalt.  
 Hoyt, J. H.—G. A. MacAulay.  
 Hubbard, Chas.—E. E. Carleton.  
 Hubbard, C. R.—T. G. Simmons.  
 Huron—J. B. Maddock.  
 Huron—C. L. Atkinson.  
 Huron—Oscar Lalonde.  
 Huronic—A. M. Wright.

Hutchinson, J. T.—W. C. Reid.  
 Hydrus—Richard O'Connor.

**Barges Captains**

Halstead—John Wanberg.  
 Harriet D.—Louis Thibedean.  
 Helvetia—Peter Peterson.  
 Holland, N. C.—Thomas Quinn.  
 Holley, Alex—Edward Lindberg.  
 Hutt, Hattie—

**Steamers Captains**

Indiana—E. E. Redner.  
 Indus—Roy Stockdale.  
 Ireland, R. L.—John W. Ehrhart.  
 Ishpeming—H. A. Murphy.  
 Islander—John Martino.

**Barges Captains**

Interlaken—Ole Steffeson.  
 Iron Cliff—Wm. Shafer.

**Steamers Captains**

Jacob, C. W.—Gus Claussen.  
 Jenkins, C. O.—N. B. Roach.  
 Jones, B. F.—Richard Neville.  
 Jones, H. R.—T. A. McDougall.  
 Juniata—Thomas Slattery.  
 Jupiter—W. H. McNeill.

**Barges Captains**

Jenny, W. L. B.—C. Benson.

**Steamers Captains**

Kalkaska—Frank Elliott.  
 Kearsarge—H. Jaenke.

Kewatin—M. McPree.  
 Kewatin—  
 Kelly Island—A. E. Bullock.  
 Kendall, H. J.—F. E. Wood.  
 Kennedy, Hugh—J. W. Galton.  
 Kerr, D. G.—H. G. Harbottle.  
 Ketchum, 2d, J. B.—W. J. Jewitt.  
 Keybell—Leo Beaupre.  
 Key Port—John Mullen.  
 Keynor—Wm. Smith.  
 Keyvive—Geo. Bunting.  
 Key West—Albert Barrett.  
 King, W. L.—F. H. Reid.  
 Kinney, A. T.—M. G. McIntosh.  
 Kirby, F. E.—F. H. Pauls.  
 Kapp, Jacob T.—J. Heffernan.  
 Kotcher, C. W.—John Milne.

**Barges Captains**

Katahdin—  
 Katie H.—P. Poirier.  
 Kelly, Norman—Wm. Hammel.  
 Kennedy, W. L.—Alfred Olson.  
 King, A. B.—A. B. King.  
 Krupp, Alfred—P. Gustafson.

**Steamers Captains**

LaBelle—J. L. McIntosh.  
 LaSalle—G. A. Montgomery.  
 Lagonda—L. M. Baird.  
 Laketon—C. R. Albinson.  
 Lake Michigan—J. Cuthbert.  
 Landbo—D. P. McCarthy.  
 Lansdown—Jno. Jackson.  
 Langell Boys—Bert Paula.  
 Langell, Simon—Guy Geel.

Laughlin, James—D. M. Post.  
 Leonard, G. B.—W. C. Butts.  
 Leopold, N. F.—Jos. Matthews.  
 Lewiston—O. Nelson.  
 Liberty—H. M. Russell.  
 Linn, W. R.—G. Blessing.  
 Livingstone—James Pett.  
 Livingstone, Wm.—O. A. Gentz.  
 Lupus—E. M. Bourgeois.  
 Luzon—Geo. H. Niles.  
 Lynch, Thomas—John Noble.

**Barges Captains**

Liberty—Capt. Norman.  
 Lozen, J. B.—Richard Burns.

**Steamers Captains**

McCoullough, C. H.—J. S. Neal.  
 McDougall, Alex—D. M. LeRoy.  
 McGonagle, W. A.—John Burns.  
 McGregor, M. A.—G. F. Forrest.  
 McIntosh, H. P.—L. J. Francis.  
 McKenney, Price—E. C. Van Pat-  
 ten.  
 McLean, J. H.—W. Lohr.  
 McLouth, Pierce—James Cottrell.  
 Major—S. Corson.  
 Malietoa—Geo. M. Ackley.  
 Malton—J. A. Smith.  
 Manchester—Elmer Weborg.  
 Manitoba—F. J. Davis.  
 Manitou—N. J. McCoy.  
 Maricopa—J. F. Wade.  
 Marian, W.—J. Toupin.  
 Marion—F. O. Johnson.  
 Mariposa—L. B. Conlin.

APPOINTMENTS OF CAPTAINS TO LAKE VESSELS, 1919—Continued

Maritana—F. W. Davis.  
 Markhan, Geo. C.—A. L. Ames.  
 Marquette—Chas. Fox.  
 Marquette & Bessemer No. 1—  
     James A. Patterson.  
 Marquette & Bessemer No. 2—  
     J. Van Buskirk.  
 Mars—J. B. Lowe.  
 Mary H.—J. E. Hess.  
 Mather, Saml.—W. A. Williams.  
 Mather, Saml. (Small)—J. Endle-  
     man.  
 Mather, W. G.—F. A. West.  
 Mataafa—Wm. Milliken.  
 Mauch Chunk—A. A. McMaugh.  
 Maunaloa—D. Murphy.  
 Maytham, Thomas—J. M. Lohr.  
 Mecosta—Edw. Recor.  
 Mercer, Fred—Jas. J. Powers.  
 Miami—  
 Michigan—C. A. Atkinson.  
 Michigan—Harry Farrow.  
 Midvall—Edw. Sullivan.  
 Miller, L. B.—Wm. Hagen.  
 Miller, P. P.—H. J. Nelson.  
 Mills, D. O.—Elmer Trim.  
 Milwaukee—J. F. Cavanaugh.  
 Milwaukee—D. McLeod.  
 Minch, A. C.—A. E. Rankin.  
 Minch, Phillip—D. M. Crooker.  
 Mitchell, G. A.—G. W. Wright.  
 Mitchell Pentecost—H. Walper.  
 Mitchell, Saml.—W. W. Shorkey.  
 Moll, C. F.—Wm. Burns.  
 Morgan, J. P.—David Bouille.  
 Morgan, J. P., Jr.—A. C. Smith.  
 Morrell, D. J.—R. L. Millen.  
 Morris, E. B.—R. D. Peltier.

Morrow, J. F.—T. D. Sullivan.  
 Morrow, J. S.—G. W. Hayward.  
 Morse, S. F. B.—P. Dunn.  
 Morse, J. C.—A. H. Reed.  
 Mueller—Joe Divish.  
 Mullen, Martin—J. F. Goodwin.  
 Muncy—Chas. Nelson.  
 Munising—C. O. Rydholm.  
 Murphy, S. J.—E. F. Bernard.

**Barges      Captains**

Magna—A. S. Hand.  
 Maia—Geo. Young.  
 Maida—Wm. Donald.  
 Maitland, Alex—F. A. Colson.  
 Manda—Charles Gordan.  
 Manila—Geo. Malloney.  
 Marcia—Carl M. Christophersen.  
 Marsala—J. N. Ames.  
 Martha—C. L. Wilson.  
 Merrill, J. B.—Henry Daryaw.  
 Minch, Sophia—R. Brown.  
 Mingoe—Jno. Booth.  
 Miztec—Jno. Thurston.  
     **Steamers      Captains**  
 Neff, S. O.—Ole T. Oleson.  
 Negaunee—W. F. Morrison.  
 Neilson, J. B.—H. Finnigan.  
 Neptune—H. C. Hansen.  
 Nessen, N. J.—H. Woerpel.  
 Nettleton, A. E.—Alex Forbes.  
 Newbold, A. E.—G. D. Tulian.  
 Nicaragua—A. McDonald.  
 Niagara—P. L. Williamson.  
 Niko—K. McKinzie.  
 Normandie—L. J. Hern.  
 Noronic—R. D. Foote.

North American—Edw. Taylor.  
 North Lake—Thomas Stevenson.  
 North Sea—R. B. Wilkinson.  
 North Star—E. B. Blair.  
 Norton, D. Z.—F. Blacklock.  
 Norway—J. H. Driscoll.  
 Nottingham, Wm.—J. Coffey.  
 Nye, H. B.—J. C. Hays.

**Barges      Captains**

Nasymith, James—W. H. Dick.  
 Norris, A. B.—J. O. Robenson.  
 No. 137—Iver Larsen.

**Steamers      Captains**

O'Connor, Frank—W. J. Hayes.  
 Oades, John—H. M. Boyce.  
 Oakes, H. K.—C. C. Balfour.  
 Octorora—S. R. Jones.  
 Odanah—A. M. Jenkyn.  
 Ogemaw—C. E. Gary.  
 Oglebay, E. W.—C. H. Mohr.  
 Ohl, E. N.—A. M. Morrison.  
 Olcott, W. J.—C. J. Grant.  
 Ontario—Robert Brown.  
 Ontario No. 1—S. McCraig.  
 Ontario No. 2—F. D. Forrest.  
 Orr, Arthur—J. Simmons.  
 Osborne, A. W.—Geo. Stewart.  
 Osborne, F. C.—J. E. McIntosh.  
 Ossifrage—  
 Ottawan—A. Mallette.  
 Otis, John—T. W. Lawler.  
 Owana—Byron Armstrong.  
 Owen, Jno.—G. E. Benham.

**Barges      Captains**

Oak Leaf—Chas. Brachman.  
 Our Son—Jensen Ellingsen.  
 Owen, Geo. B.—V. W. Duncan.

**Steamers      Captains**

Pallow, L.—Jno. Higgie.  
 Paine, Wm. A.—C. H. Heaton.  
 Paisley, R. R.—D. J. Duncanson.  
 Palmer, W. P.—S. E. Meeker.  
 Panay—C. H. Wilson, Jr.  
 Parquy, E. W.—W. H. Moody.  
 Parks, O. E.—Wm. L. LaFay.  
 Pathfinder—Edward Emig.  
 Pegasus—Arnold Evanson.  
 Pelee—J. N. Sheats.  
 Penobscot—Roy M. Leonard.  
 Penobscot (Wood)—O. D. Collins.  
 Pere Marquette—W. H. VanDyke.  
 Pere Marquette 3—C. McCauley.  
 Pere Marquette 4—A. K. Hoxie.  
 Pere Marquette 8—Mike Martin.  
 Pere Marquette 17—John Stuffel-  
     beam.  
 Pere Marquette 18—John Craw-  
     ford.  
 Pere Marquette 19—C. E. Robert-  
     son.  
 Pere Marquette 20—Eston Bohle.  
 Perkins, G. W.—Allen Collins.  
 Perry, Oliver H.—Ezra Bickford.  
 Perseus—Walter Rouvel.  
 Petoskey—T. G. Baldwin.  
 Philbin, D. M.—A. R. Morse.  
 Phipps, Henry—J. N. Rolfson.  
 Pierce, E. L.—Sevren Nelssen.

APPOINTMENTS OF CAPTAINS TO LAKE VESSELS, 1919—Continued

Pioneer—F. D. Perew.  
 Pleasure—Archibald Blaine.  
 Poe, Gen. O. M.—F. Mallory.  
 Pollock, W. G.—E. Bennett.  
 Polynesia—F. A. Tomlin.  
 Pontiac—T. E. Murray.  
 Prentice, J. H.—C. Van Gorder.  
 Presque Isle—P. A. Anderson.  
 Princeton—F. D. Selee.  
 Promise—Chas. Woodgrift.  
 Puritan—Ed. Williams.  
 Put-in-Bay—A. J. Fox.  
 Pringle, R. C.—M. B. Glockle.  
 Pringle, W. R.—H. C. Brechsieb.

**Barges Captains**

Pellatt, J. H.—Wm. Kelley.  
 Peshtigo—Donald Campbell.

**Steamers Captains**

Queen City—J. Conlin.  
 Ralph, P. J.—A. T. Young.  
 Ranney, R. P.—W. S. Ritchie.  
 Ream, N. B.—A. W. Burrows.  
 Recor, E. P.—A. J. Stoll.  
 Reeb, M. A.—John A. Larson.  
 Reed, J. H.—Nelson Brown.  
 Rees, W. D.—Olaf Skeeggen.  
 Regulas—R. A. Baker.  
 Reiss, C. A.—Thomas N. Conlin.  
 Reiss, J. P.—Alex Craige.  
 Reiss, O. M.—E. J. Lawrence.  
 Reiss, Peter—Wm. Landon.  
 Reiss, R. J.—J. W. Auttersen.  
 Reiss, W. A.—M. A. Mahon.  
 Rensselaer—Geo. Rees.

Renown—Theo. Young.  
 Replogle, J. L.—B. M. Landfair.  
 Rhodes, J. W.—Fred N. Watts.  
 Rhodes, R. R.—W. H. Ransom.  
 Richard, W.—Geo. Haymond.  
 Richardson, G. A.—J. T. McCarthy.  
 Richardson, R. R.—W. A. Ashley.  
 Richardson, W. C.—C. Carlson.  
 Richland Queen—W. J. Mackin.  
 Richland Star—J. H. Madden.  
 Riverton—W. J. Moles.  
 Robbins, F. L.—H. G. Harbarger.  
 Robbins, S. H.—J. B. Rinn.  
 Roberts, Jr., Percival—A. J. Talbot.  
 Roberts, W. T.—J. A. Montgomery.  
 Robinson, C. S.—Frank Randall.  
 Rochester—A. W. Hayden.  
 Rockferry—Wm. A. Tulloch.  
 Rockefeller, Frank—John J. McDonald.  
 Rogers, H. H.—Geo. McCallum.  
 Rogers, W. A.—Geo. Lewis.  
 Rolph, John—T. Heffernan.  
 Rugee, John—Saml. V. Anderson.  
 Runnells, H. E.—Hugh O'Hagen.

**Barges Captains**

Redington, Nellie—John Gordon.  
 Redfern, C. E.—W. P. Johnson.  
 Richland Daisy—E. H. Giddings.  
 Roebling, J. A.—Donald Graham.

**Steamers Captains**

Ste. Claire—Robt. E. Ferguson.

Ste. Louis—Capt. Leeman.  
 Sailor Boy—Harold Berg.  
 Sapho—Clifford Wilkin.  
 Saturn—R. Z. Utley.  
 Saunders, E. N., Jr.—S. Sexsmith  
 Sawyer, Philetus—C. E. LeBeau.  
 Sawyer, W. H.—Mike Canartney.  
 Schiller, W. B.—C. M. Conkey.  
 Schlesinger, F.—Ole Dyrnes.  
 Schneider, Cletus—T. B. Bennett.  
 Schoolcraft—Wm. Cunningham.  
 Schoonmaker, J. M.—J. J. Slade.  
 Scotsman—E. Francoeur.  
 Scranton—Hector Brown.  
 Seither, Frank—H. Howard.  
 Sellwood, J.—C. H. Woodford.  
 Senator—Charles W. Ernest.  
 Shaughnessy, T.—Geo. A. Atkinson.  
 Shaw, H. L.—Frank Rice.  
 Shaw, Q. A.—Gordon Low.  
 Sheadle, J. H.—S. A. Lyons.  
 Shenango—Frank H. Ott.  
 Sherwin, John—P. M. Cartwright  
 Sheras, M. G.—C. S. Boyce.  
 Shrigley, J. H.—W. C. Thompson  
 Sicken, M.—Capt. Bowen.  
 Sieman, Sir W.—D. W. McLeod.  
 Sierra—Geo. A. Warwick.  
 Sinaloa—Hugh Stevenson.  
 Sirius—Andrew Cowie.  
 Slick, E. E.—M. M. Stewart.  
 Smith, B. Ley—C. W. Caughell.  
 Smith Home—A. McIntyre.  
 Smith, H. W.—T. J. Carney.  
 Smith, Ly C.—J. B. Watts.  
 Smith, M. C.—Edward Stanley.  
 Smith, W. L.—Howard Geel.

Snyder, W. P.—A. J. Munroe.  
 Snyder, W. P., Jr.—J. F. Jones.  
 Sonora—C. R. Baker.  
 Sonora—J. E. Drury.  
 South American—Geo. M. Cummings.  
 Squire, F. B.—H. W. Emigh.  
 Stackhouse, Powell—A. Johnston  
 Stadacona—Geo. H. Page.  
 Stafford, W. R.—Roy Woodford.  
 Stanton, Jno.—C. A. Benham.  
 Starke, C. H.—H. J. Kendall.  
 Steinbrenner, H.—J. W. Kelly.  
 Steelton—W. J. Kirkwood.  
 Stephenson, Geo.—A. T. Patchett  
 Stephenson, I. W.—L. F. Strahan  
 Stephenson, S. M.—J. Sanford.  
 Stifel, W. F.—Dana Mitchell.  
 Stone, Amasa—W. A. Reed.  
 Stuart, W.—E. Treeblay.  
 Sullivan, J. J.—W. P. Benham.  
 Sultana—W. H. McCorkell.  
 Superior City—E. L. Sawyer.  
 Superior—E. C. Leath.  
 Sweden—Jno. W. Robinson.

**Barges Captains**

Sagamore—J. H. Ohman.  
 Sherman, W. A.—Geo. Abbott.  
 Smeaton, Jno.—Robt. Thompson.  
 Stevens, J. H.—P. F. Goodleb.

**Steamers Captains**

Tashmoo—B. S. Baker.  
 Taurus—D. B. Elsey.  
 Taylor, J. F.—R. H. Boyle.  
 Taylor, Moses—S. H. Smith.

APPOINTMENTS OF CAPTAINS TO LAKE VESSELS, 1919—Continued

Thompson, A. W.—G. W. Swails.  
 Thompson, C. A.—Wm. Langell.  
 Thompson, Smith—P. Bouille.  
 Tioga—J. C. Heaney.  
 Tionesta—John Doherty.  
 Tomlinson, G. A.—J. H. Smith.  
 Tourist—A. P. Forbeck.  
 Townsend, E. Y.—M. Anderson.  
 Transfer—G. W. Honner.  
 Transport—W. Norvell.  
 Tremble, Richard—Geo. Banker.  
 Troy—Joseph Donahue.  
 Truesdale, W. H.—F. R. Goodrow  
 Turner, J. J.—A. H. Hartman.

**Barges Captains**

Thompson, A. W.—G. Swails.  
 Thomas, S. G.—John Brown.  
 Tilden, S. J.—John Mattison.  
 Tusberry, A. C.—Ely Jacques.  
 Tyrone—T. K. Woodward.

**Steamers Captains**

Uhrig, E. A.—J. M. Brines.

Upson, A. S.—J. Connelly.  
 Upson, J. E.—C. H. Franke.  
 Uranus—W. J. Tomlin.  
 Utica—Daniel Murphy.  
 Utley, E. H.—F. L. Meno.

**Steamers Captains**

Valcartier—J. A. Brown.  
 Vega—Edward Johnston.  
 Venezuela—Geo. J. Bennett.  
 Venus—R. E. Johnson.  
 Verona—J. B. Lyons.  
 Victoria—Peter Williams.  
 Victory—S. W. Matson.  
 Victoria—F. Elliott.  
 Vulcan—W. B. Chamberlain.

**Steamers Captains**

Wade, J. H.—M. A. Livingston.  
 Waubic—John Dube.  
 Wauketa—Christian Smith.  
 Wallace, J. C.—C. C. Stewart.  
 Walsh, J. P.—E. D. Gatfield.

Walters, Thomas—M. G. Allen.  
 Warner, C. M.—L. P. Anderhalt.  
 Warren, Homer—Wm. Stalker.  
 Watson, C. W.—C. J. Auttersen.  
 Watt, James—F. J. Hunt.  
 Wentz, R. C.—D. O. Lockhart.  
 Western States—S. O. Robinson.  
 White, Peter—J. A. Stewart.  
 White, W. F.—M. R. MacLean.  
 Wickwire, T. H.—J. G. Herbert.  
 Wickwire, T. H., Jr.—J. W. Mont-  
 gomery.  
 Wiediner, P. A. B.—Geo. Bowen.  
 Widlar, Francis—Alex Forbes.  
 Wilkesbarre—Henry Durker.  
 Wilkinson, H. S.—B. J. Lyons.  
 Williams, H. D.—C. Geghen-  
 heimer.  
 Wilpen—Benson Fox.  
 Wilson, M.—John Eble.  
 Wilson, Capt. T.—Daniel Buie.  
 Wissahicken—Geo. Delaney.  
 Wolf, W. H.—John D. Wanvig.  
 Wolf, W. H.—J. T. Hansen.  
 Wolvin, A. B.—John Tower.

Wood, Joseph—W. R. Jerome.  
 Woods, Frank—C. B. Coates.  
 Wotan—Jacob Berensten.  
 Wyandotte—J. C. McCormick.

**Barges Captains**

Woolson, Mary—L. D. Bennett.  
 Wright, A. W.—S. Williamson.

**Steamers Captains**

Yates, Harry—M. S. Peterson.  
 Yorkton—R. Alexander.  
 Yosemite—Joe Moran.

**Steamers Captains**

Ziesing, Aug.—W. H. Kilby.  
 Zenith City—G. Huckle.  
 Zillah—H. W. Spaulding.

**Barges Captains**

Zapotec—Ad Monette.

ALTITUDES OF VARIOUS CITIES IN THE UNITED STATES

STATIONS	Feet Above Sea Level	STATIONS	Feet Above Sea Level
Abilene, Texas . . . . .	1718	Elkins, W. Va. . . . .	1920
Albany, N. Y. . . . .	18	Elmira, N. Y. . . . .	863
Astoria, Ore. . . . .	18	Erie, Pa. . . . .	572
Atlanta, Ga. . . . .	1033	Eureka, Calif. . . . .	25
Auburn, N. Y. . . . .	677	Evansville, Ind. . . . .	382
Augusta, Ga. . . . .	100	Fort Worth, Texas . . . . .	600
Baltimore, Md. . . . .	98	Fresno, Calif. . . . .	290
Bangor, Me. . . . .	20	Galveston, Texas . . . . .	5
Berkeley, Cal., Weather Bureau . . . . .	320	Gloucester, Mass. . . . .	52
Binghamton, N. Y. . . . .	862	Grand Haven, Mich. . . . .	581
Bismarck, N. Dak. . . . .	1670	Green Bay, Wis. . . . .	587
Boise, Idaho . . . . .	2492	Harrisburg, Pa. . . . .	317
Boston, Mass. . . . .	—5	Hartford, Ct. . . . .	38
Brooklyn, N. Y., Weather Bureau . . . . .	107	Indianapolis, Ind., Weather Bureau . . . . .	822
Buffalo, N. Y. . . . .	575	Jacksonville, Fla. . . . .	7
Burlington, Vt. . . . .	197	Kansas City, Mo., Weather Bureau . . . . .	963
Cairo, Ill. . . . .	269	Keokuk, Iowa . . . . .	481
Cape Henry, Va. . . . .	7	Knoxville, Tenn. . . . .	806
Cape May, N. J. . . . .	6	La Crosse, Wis. . . . .	678
Cedar Keys, Fla. . . . .	6	Lansing, Mich. . . . .	827
Charleston, S. C. . . . .	9	Leavenworth, Kansas . . . . .	727
Charlotte, N. C. . . . .	725	Lexington, Ky. . . . .	965
Chattanooga, Tenn. . . . .	630	Lincoln, Neb. . . . .	1147
Chicago, Ill. . . . .	579	Little Rock, Ark. . . . .	286
Cincinnati, Ohio, Weather Bureau . . . . .	628	Los Angeles, Calif., Weather Bureau . . . . .	338
Cleveland, Ohio . . . . .	594	Louisville, Ky. . . . .	456
Columbia, Mo. . . . .	737	Lynchburg, Va. . . . .	523
Columbus, Ohio, Weather Bureau . . . . .	824	Manchester, N. H. . . . .	180
Council Bluffs, Iowa . . . . .	990	Memphis, Tenn. . . . .	271
Davenport, Iowa . . . . .	536	Meridian, Miss. . . . .	341
Dayton, Ohio . . . . .	790	Milwaukee, Wis. . . . .	586
Des Moines, Iowa . . . . .	799	Minneapolis, Minn. . . . .	837
Detroit, Mich. . . . .	584	Montgomery, Ala. . . . .	162
Dubuque, Iowa . . . . .	643	Mt. Tamalpais, Calif. . . . .	2353
Duluth, Minn. . . . .	601	Nashville, Tenn. . . . .	434

ALTITUDES OF VARIOUS CITIES IN THE UNITED STATES—Continued

STATIONS	Feet Above Sea Level	STATIONS	Feet Above Sea Level
New Bedford, Mass. . . . .	88	Savannah, Ga. . . . .	41
New Haven, Conn. . . . .	3	Seattle, Wash. . . . .	22
New London, Conn. . . . .	23	Sioux City, Iowa . . . . .	1107
New Orleans, La. . . . .	8	Southport, N. C. . . . .	14
Newport, R. I. . . . .	13	Spokane, Wash. . . . .	1910
New York, N. Y., Weather Bureau . . . . .	35	Springfield, Ill. . . . .	600
Oakland, Calif., Weather Bureau . . . . .	36	Springfield, Mass. . . . .	70
Oklahoma, Okla. . . . .	1195	Springfield, Mo. . . . .	1348
Olympia, Wash. . . . .	17	Syracuse, N. Y. . . . .	398
Omaha, Neb. . . . .	1040	Tacoma, Wash. . . . .	46
Oswego, N. Y. . . . .	252	Tampa, Fla. . . . .	—1
Parkersburg, W. Va. . . . .	616	Thatchers Island, Mass. . . . .	53
Philadelphia, Pa. . . . .	8	Toledo, Ohio, Weather Bureau . . . . .	628
Phoenix, Ariz. . . . .	1084	Tucson, Ariz. . . . .	2389
Pierre, S. Dak. . . . .	1441	Utica, N. Y. . . . .	407
Pittsburg, Pa. . . . .	697	Vicksburg, Miss. . . . .	223
Port Angeles, Wash. . . . .	11	Washington, D. C. . . . .	91
Port Huron, Mich. . . . .	581	Worcester, Mass. . . . .	475
Portland, Me. . . . .	47	Wichita, Kansas . . . . .	1300
Portland, Ore. . . . .	8	Wilmington, Del. . . . .	78
Providence, R. I., Weather Bureau . . . . .	74	Wilmington, N. C. . . . .	31
Red Bluff, Calif. . . . .	306	Youngstown, Ohio . . . . .	841
Redlands, Calif. . . . .	1335	Zanesville, Ohio . . . . .	704
Richmond, Va. . . . .	164		
Rochester, N. Y. . . . .	509		
Sacramento, Calif. . . . .	2		
St. Louis, Mo. . . . .	412		
St. Paul, Minn. . . . .	693		
St. Vincent, Minn. . . . .	798		
San Antonio, Texas . . . . .	683		
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