

1915







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A  
**DIRECTORY**

OF NAMES, PENNANT NUMBERS AND ADDRESSES  
OF ALL MEMBERS OF THE

**Ship Masters' Association**  
of the Great Lakes

Also a List of Vessels of the Great  
Lakes, American and Canadian, with  
Names and Addresses of Owners.

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Other Information of a Miscellaneous  
Nature of Interest in Shipping Circles  
on the Great Lakes.

**APRIL, 1915**

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J. A. Holmes, Grand Financial Secretary, 307 Superior Ave.  
CLEVELAND

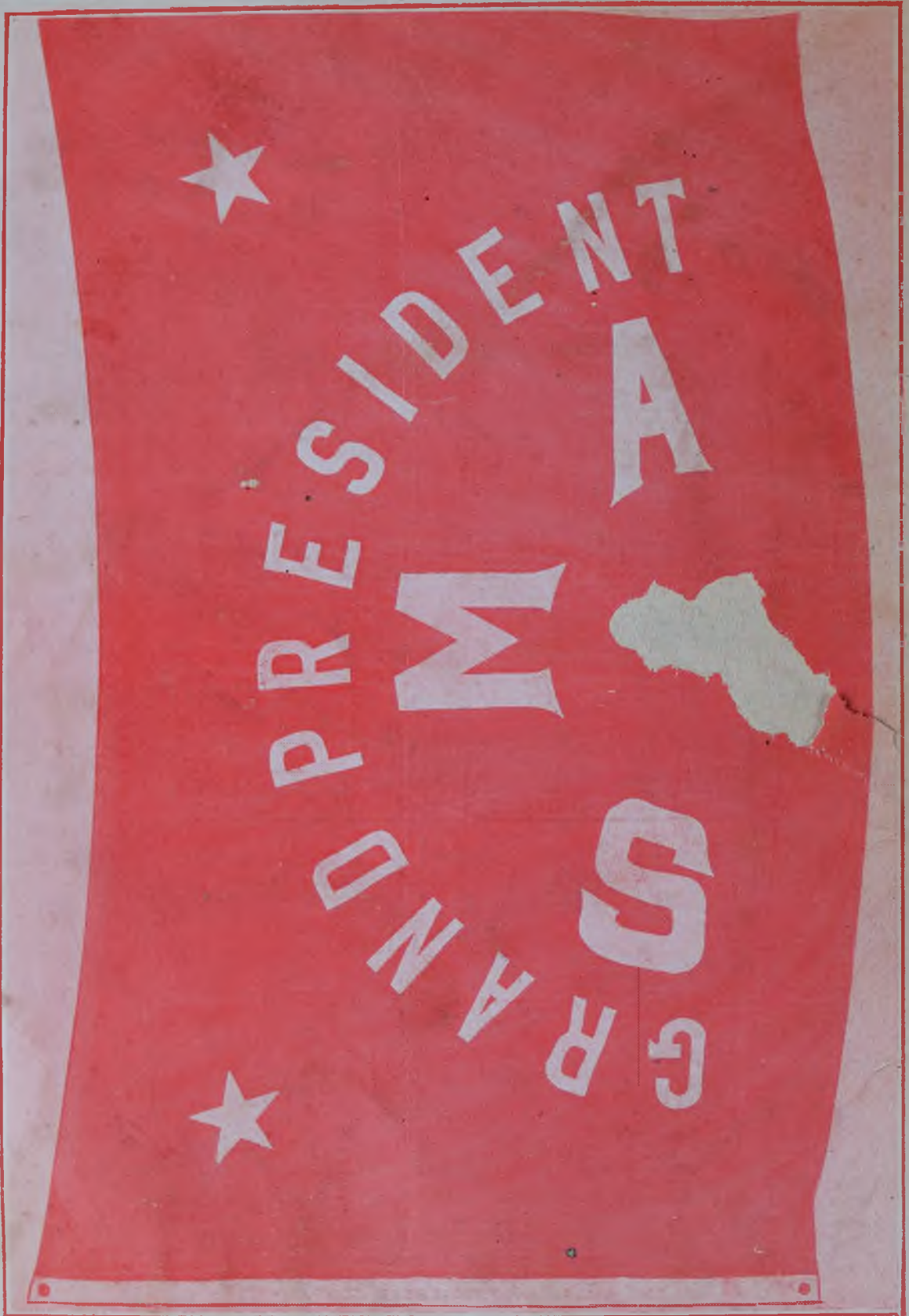
THE AMERICAN PUBLISHERS COMPANY  
NORWALK, OHIO



NAMES AND ADDRESSES

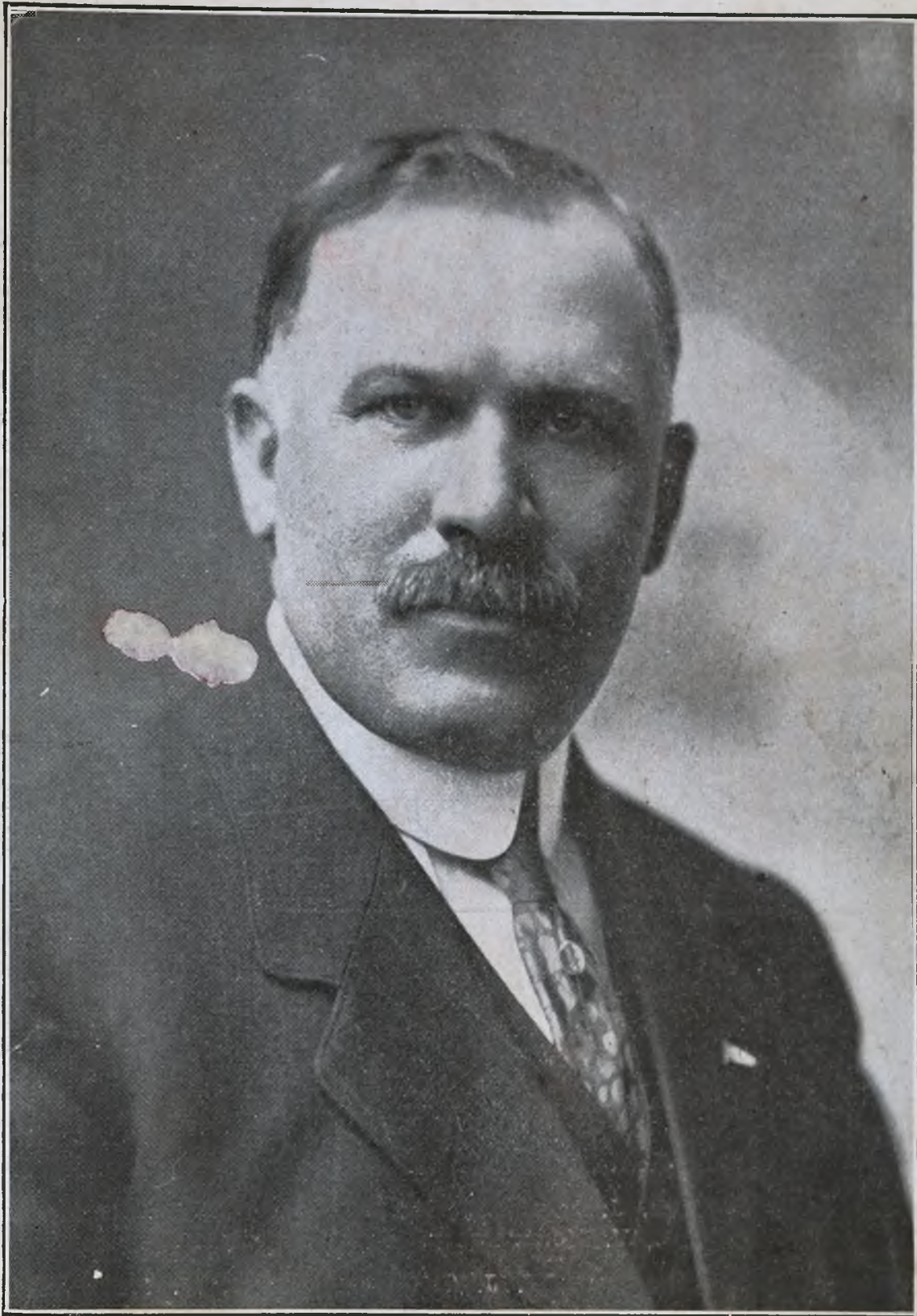
Pen- nant	Lodge	Name	Address	City
1851	10	Delaney, Geo. J.	423 East 6th St.	Erie, Pa.
2282	4	DeLand, W. A.	1349 Nicholson Ave.	Lakewood, O.
2172	1	DeLaney, Wm. F.	775 Fount Ave.	Buffalo, N. Y.
1787	7	De Nike, Lee C.	147 Highland Ave.	Highland Park, Mich.
2003	10	Dessert, W. G.	16 Clark St.	Ogdensburg, N. Y.
983	4	Detlifs, Emil	3788 W. 33rd St.	Cleveland, O.
199	3	Disher, Wm.	4838 Fulton St.	Chicago, Ill.
1668	2	Ditzel, H. E.	211 South 16th Ave. E.	Duluth, Minn.
2334	12	Ditzel, Edward J.	234 3rd Ave.	Two Harbors, Minn.
1492	4	Dixon, A.	3049 W. 30th St.	Cleveland, O.
501	6	Doak, J. A.	599 Wentworth Ave.	Milwaukee, Wis.
2058	4	Dodge, W. J.	1260 St. Charles St.	Lakewood, O.
1554	1	Dooheh, J. B.	423 Fargo Ave.	Buffalo, N. Y.
2032	12	Doherty, J. E.	Str. Mary Scott.	Ashland, Wis.
1075	7	Donaghue, E. J.	520 14th Ave.	Detroit, Mich.
1719	1	Donahue, Jos.	72 Mont Clair St.	Buffalo, N. Y.
2151	14	Doner, George R.	1867 E. 69th St.	Cleveland, O.
1672	14	Doner, Jas.	411 Adams St.	St. Clair, Mich.
1766	14	Doner, T. F.	1870 3rd Ave.	Detroit, Mich.
1539	6	Dority, F. A.	889 Hackett Ave.	Milwaukee, Wis.
1683	7	Dorry, B. B.	Care Light House Inspector.	New Orleans, La.
1147	9	Doville, D. F.	P. O. Box 348, Central Sta.	Toledo, O.
1251	9	Doville, Egbert	140 University Blvd.	Toledo, O.
407	4	Doville, Jos.		Sodus Pt., N. Y.
317	1	Drake, A. B.	1010 Prudential Bldg.	Buffalo, N. Y.
1059	4	Driscoll, J. H.	1455 Northland Ave.	Lakewood, O.
1670	1	Drury, J. E.	161 Dodge St.	Buffalo, N. Y.
2327	17	Dube, Edmond		Penetanguishene, Ont.
1566	6	DuClos, Napoleon.	935 Newhall St.	Milwaukee, Wis.
1095	6	Duddleson, J. W.	110 Bingham Av.	Sault Ste. Marie, Mich.
532	7	Duncanson, D. J.	37 Reed Place.	Detroit, Mich.
1739	10	Dunn, C. A.	1287 Warren Ave., E.	Detroit, Mich.
17	1	Dunn, Jno.	723 Elliott St.	Buffalo, N. Y.
2002	4	Dunn, F. H.	8700 Tompkins Ave.	Cleveland, O.
1519	1	Dunn, Thos.	252 E. Utica St.	Buffalo, N. Y.
2141	4	Dunn, W. R.	3843 W. 44th St.	Cleveland, O.
1467	9	Dunseith, Jno.	820 Lincoln Ave.	Toledo, O.
1534	8	Dupieue, F. A.	Box 218.	Marine City, Mich.
2254	4	Durkee, W. W.	30 Hambley Ave.	Toronto, Ont.





GRAND PRESIDENT'S FLAG





A. C. SMITH, Grand President





25th Annual Meeting of the Grand Lodge S. M. Association,  
at the White House, Washington, D. C.  
January 29th, 1915.

**First Row**—C. J. Autterson, A. A. Hudson, J. A. Holmes, A. C. Smith, C. H. Hubbard, A. Stalker, F. Dority.

**Second Row**—Oscar Olsen, J. Lowes, J. D. Baird, M. G. McIntosh, G. L. Atkinson, J. W. Montgomery, D. T. Sullivan.

**Third Row**—B. F. Haagenson, W. J. Stitt, J. P. Stitt, M. McKay, H. A. Murphy, E. C. Akers.



# Grand Lodge Officers

1915

---

Grand President .....	A. C. Smith
Grand Financial Secretary .....	J. A. Holmes
Grand Secretary .....	J. A. Holmes
307 Superior Ave., Cleveland, O., Res. Address 29 Edgehill Rd. Cleve. Hts., Cleveland, Ohio.	
Grand Treasurer .....	C. H. Hubbard
1st Past Grand President .....	Alex. Clark
2nd Past Grand President .....	C. E. Benham
3rd Past Grand President .....	Geo. McCullagh
4th Past Grand President .....	W. E. Rice
5th Past Grand President .....	Henry Leisk
6th Past Grand President .....	A. J. McKay
7th Past Grand President .....	C. H. Hubbard
8th Past Grand President .....	J. A. Ward
9th Past Grand President .....	W. D. Hamilton
10th Past Grand President .....	H. H. Parsons
11th Past Grand President .....	J. A. Calbick
12th Past Grand President .....	W. D. Ames
13th Past Grand President .....	M. G. McIntosh
14th Past Grand President .....	John H. McDonald
15th Past Grand President .....	C. J. Auttersen
16th Past Grand President .....	James G. Herbert
17th Past Grand President .....	C. T. Bronson
18th Past Grand President .....	Millard M. Stewart



# PAST GRAND PRESIDENTS

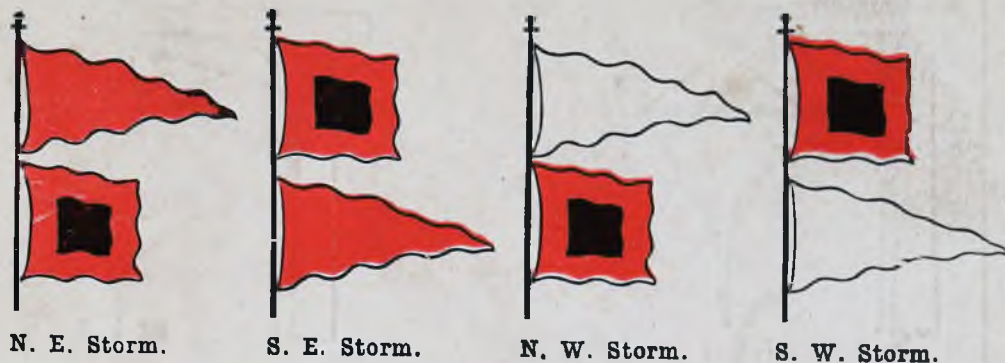


C. T. BRONSON	M. M. STEWART	J. A. CALBICK	
A. J. MCKAY	HENRY LEISK	J. A. WARD	
J. H. McDONALD	ALEX CLARK	GEORGE McCULLAGH	M. G. MCINTOSH
C. E. BENHAM	W. D. AMES	J. G. HERBERT	W. S. HAMILTON
C. H. HUBBARD			H. H. PARSONS
	CHARLES AUTTERSON	W. E. RICE	



# STORM SIGNALS

As displayed on the Great Lakes at United States Weather Bureau Stations



Hurricane or very  
severe storm

Information Signals (red or white pennant) displayed alone have been discontinued.

## EXPLANATION

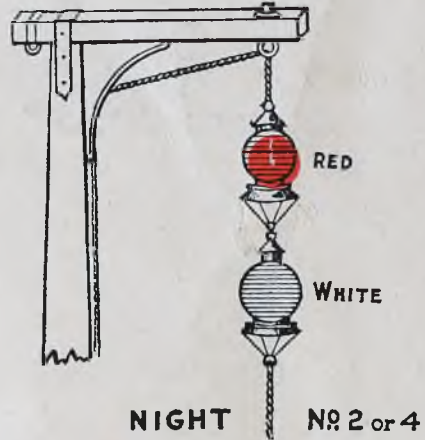
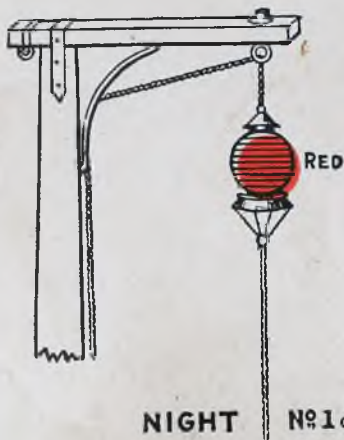
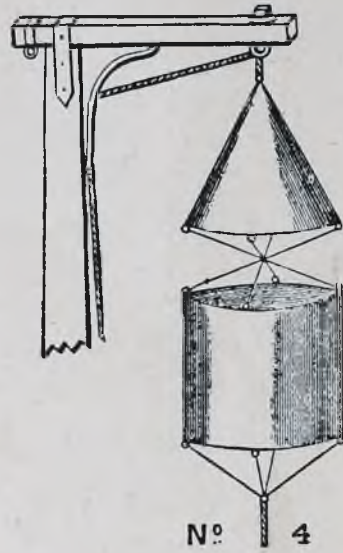
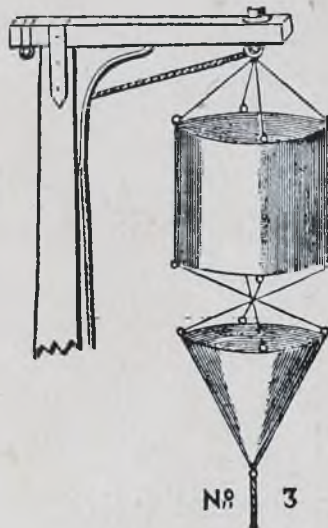
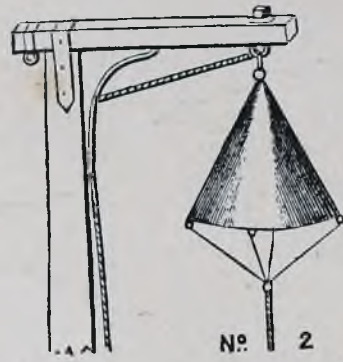
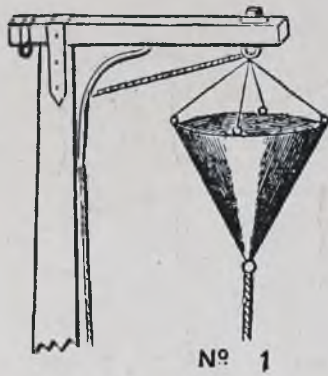
**Storm Signal.**—A red flag with a black center indicates that a storm of marked violence is expected.

The pennants displayed with the flags indicate the direction of the wind; red, easterly (from northeast to south); white, westerly (from southwest to north). 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 above a red light, westerly winds.

**Hurricane Signal.**—Two red flags with black centers displayed one above the other, indicate the expected approach of tropical hurricanes, and also of those extremely severe and dangerous storms which occasionally move across the lakes and the northern Atlantic coast. Hurricane warnings are not displayed at night.







## CANADIAN STORM WARNINGS

Fig. No. 1.—This signal indicates the probability of a gale, at first from an Easterly direction.

Fig. No. 2.—This signal indicates the probability of a gale, at first from a Westerly direction.

Fig. No. 3.—This signal indicates the probability of a heavy gale, at first from an Easterly direction.

Fig. No. 4.—This signal indicates the probability of a heavy gale, at first from a Westerly direction.

The night signal corresponding to Nos. 1 and 3 is a red light.

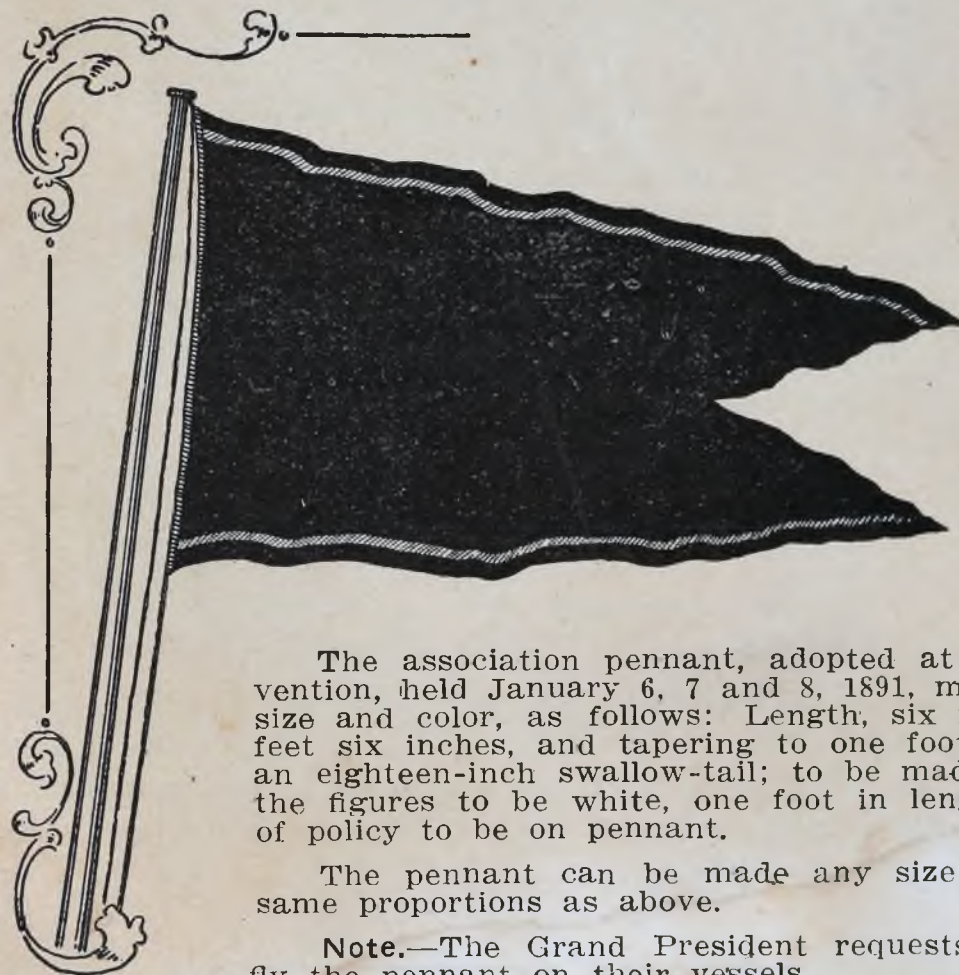
Night signal corresponding to Nos. 2 and 4 is a red light above a white light.

Note I.—Mariners will be able to obtain further information from Signal Agents, or by consulting the daily forecasts.

Note II.—Mariners must always bear in mind that the storm signals do not necessarily mean that storm will occur at the place where the signal is displayed, but that one is expected either there or within such a distance that vessels leaving port would be liable to be caught in it.

R. F. STUPART, Director.

Meteorological Office, Toronto.



The association pennant, adopted at the Buffalo convention, held January 6, 7 and 8, 1891, must be of uniform size and color, as follows: Length, six feet; width, three feet six inches, and tapering to one foot six inches, with an eighteen-inch swallow-tail; to be made of red bunting, the figures to be white, one foot in length. The number of policy to be on pennant.

The pennant can be made any size by giving it the same proportions as above.

**Note.**—The Grand President requests all members to fly the pennant on their vessels.



# The Ship Masters' Association

## *Its Aims and Objects Who Are Its Members*

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### *Extracts From Constitution*

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#### Article I—Purposes of the Association

Sec. 2. The purpose of this Association shall be to improve and elevate the characters of its members, to create a brotherly feeling, to visit the sick, render necessary assistance in case of death, to provide for a beneficiary fund, and to pay the same to the family of deceased members, or as may be otherwise directed.

#### Article V—Membership

Sec. 1. Every applicant for membership in this Association shall hold a master's certificate issued by the United States or Canadian Government, in force at the date of his becoming a member. He must also have been actively engaged in sailing within a period of two years prior to the date of his application for membership.



# OUTFITTERS OF VESSELS

Wire Rope Hawsers

Mooring Lines

Manila Rope

Tarpaulins

Boat Covers

Weather Cloths

Awnings

Tackle Blocks

Marine Paints

Nautical Instruments

Anchors

Chains

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of  
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AND  
RIGGING LOFT

SOUNDING MACHINES - ALL MAKES  
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CLEVELAND



## SHIPMASTERS

Don't forget to include a few boxes of "**Gino Pills for the Kidneys**" in your medicine chest, for you never know when some member of your crew is going to have an attack of rheumatism while at sea.

"**Gino Pills**" are also recommended for

**Pain in  
the back**

**Lumbago**

**Stone in  
the  
Kidneys  
or  
Bladder**

**Painful  
Urination**



**Suppres-  
sion or  
Inconti-  
nence of  
the Urine**

**Brick-  
Dust De-  
posits**

**Inflam-  
mation of  
the  
Bladder**

**Price 50c per box, or six boxes for \$2.50, postpaid**

"**National**" **Lazy-Liver Pills** never fail to relieve Constipation, Indigestion, Sour Stomach, Sick Headache, or Biliousness.

**Price 25c per bottle, or five bottles for \$1.00, postpaid**

Send us your orders, and we will forward the goods promptly to any Post Office you wish.

"**Gino Pills**" in the U. S. A. are identical with "**Gin Pills for the Kidneys**" sold in Canada.

**NA = DRU = CO., Inc.**

**202 Main Street**

**BUFFALO, N. Y**



NAMES AND ADDRESSES OF MEMBERS, SHIP MASTERS' ASSOCIATION

Pen- nant	Lodge	Name	Address	City
1867	1	Abel, Wm.	Queen St.	Pt. Dalhousie, Ont.
996	6	Ackerman, J. C.	411 No. Robert St.	Ludington, Mich.
1705	1	Acton, Jos. R.	22 Lythe Ave.	Buffalo, N. Y.
1916	9	Adams, Jos.	136 Clinton St.	Alpena, Mich.
2153	14	Aitken, H. J.		Courtright, Ont.
1334	2	Akers, E. C.	817 Park St.	Pt. Huron, Mich.
2179	14	Albinson, C. R.		Mooretown, Ont.
1116	4	Allen, C. L.	4712 Clinton Ave.	Cleveland, O.
1038	4	Allen, Sam'l	1403 W. 65th St.	Cleveland, O.
1816	4	Allen, M. G.	8910 Wade Park Ave.	Cleveland, O.
1904	6	Alexander, Algie		Kewaunee, Wis.
2178	14	Alexander, Robt.		Mooretown, Ont.
2368	16	Alexander, Wm.		Nipigon, Ont.
1948	8	Ames, F. C.	Box 138	Algonac, Mich.
1328	11	Ames, Aug.		Algonac, Mich.
1620	4	Ames, G. W.	11810 Chesterfield St.	Cleveland, O.
307	4	Ames, W. D.	15514 Detroit Ave.	Lakewood, O.
1783	11	Ames, W. J.	Box 268	Algonac, Mich.
2337	4	Amsbary, W. F.	Cleveland-Cliffs Co.	Cleveland, O.
1411	7	Anderholt, L. P.	137 Blaine Ave.	Detroit, Mich.
1700	3	Anderson, Alex. A.	3037 Clifton Ave.	Chicago, Ill.
1368	4	Anderson, C. A.	1360 Ethel St.	Lakewood, O.
115	2	Anderson, E. B.	114 Linwood Ave.	Detroit, Mich.
1513	6	Anderson, Gus	901 34th St.	Milwaukee, Wis.
2166	3	Andersen, H. E.	19 W. Maple St.	Chicago, Ill.
570	4	Anderson, Jos.	7108 W. Clinton Ave.	Cleveland, O.
1321	4	Anderson, M.	1064 E. 99th St.	Cleveland, O.
448	6	Anderson, O. N.	422 Camp Bldg., Care J. O. Nelson	Milwaukee, Wis.
1641	4	Anderson, P. A.	1356 Bonny View Ave.	Lakewood, O.
1498	3	Anderson, Sig	2208 No. Kimball Ave.	Chicago, Ill.
1733	10	Anderson, S. V.	33 State St.	Ogdensburg, N. Y.
1319	3	Anderson, Wm.	2039 Chase Ave.	Chicago, Ill.
2170	6	Andrews, Andrew	1270½ Orchard Place	Milwaukee, Wis.
1892	1	Apsey, A. W.	45 Harvard Pl.	Buffalo, N. Y.
1569	7	Archer, A. A.	71 Dragon Ave.	Detroit, Mich.
253	7	Armstrong, B.	207 Blaine Ave.	Detroit, Mich.



Pen- nant	Lodge	Name	Address	City
854	9	Ashley, E. G. ....	207 Chamber of Com. Bldg...	Toledo, O.
671	7	Ashley, W. A. ....	Care Brown & Co.....	Buffalo, N. Y.
1097	7	Atkinson, C. L. ..	178 Hogarth Ave.....	Detroit, Mich.
2047	11	Atkinson, Geo. ....		Algonac, Mich.
1701	3	Atkinson, Gus E...	1919 N. Lawndale Ave....	Chicago, Ill.
1689	7	Autterson, Chas...	234 Jefferson Ave.....	Detroit, Mich.
2104	14	Autterson, John ..	316 Trumble St.....	St. Clair, Mich.
1953	14	Autterson, J. W...	402 Trumble St.....	St. Clair, Mich.
1454	4	Bailey, F. A. ....		Vermilion, O.
614	9	Bailey, R. N. ....	Hicks & Clinton Sts.....	Toledo, O.
1592	7	Bain, A. J. ....	111 Pelissier St.....	Windsor, Ont.
1960	8	Baird, John D. ....		Marine City, Mich.
1397	7	Baker, Burton S...	328 Van Dyke Ave.....	Detroit, Mich.
1356	7	Baker, H. W. ....	237 Clairmount Place ....	Detroit, Mich.
1137	7	Balfour, C. C. ....	237 Clairmont Place.....	Detroit, Mich.
232	6	Ballentine, E. D...	1440 6th St.....	Pt. Huron, Mich.
1423	4	Banker, G. H. ....	1325 East 124th Pl.....	Cleveland, O.
1610	1	Barclay, John ....	380 Hudson St.....	Buffalo, N. Y.
1632	7	Barnes, C. E. ....		Otter Lake, Mich.
2120	15	Barreth, M. ....	835 15th St. E.....	Owen Sound, Ont.
2293	1	Barry, Fred ....	523 Elk St. ....	Buffalo, N. Y.
1384	4	Bartel, A. E. ....	214 N. Canal St.....	Chicago, Ill.
2290	15	Batten, A. A.....	Box 2.....	Owen Sound, Ont.
1903	8	Beall, A. R. ....	1458 E. 110th St.....	Cleveland, O.
2402	17	Beatty, A. W. ....	Box 317.....	Midland, Ont.
2345	17	Beatty, Wilbur ...	Box 317.....	Midland, Ont.
2196	7	Beauvais, H. L. ...	1294 Seminole Ave.....	Detroit, Mich.
1090	4	Beggs, Thos. ....	1467 Olivewood Ave.....	Lakewood, O.
—	6	Behm, Paul ....	703 W. Ludington Ave..	Ludington, Mich.
1698	4	Bell, G. A. ...)		Vermilion, O.
234	4	Benham, C. E. ....	36 Commercial Bk. Bldg...	Cleveland, O.
427	4	Benham, Chas. A...	9705 Clifton Blvd.....	Cleveland, O.
1499	4	Benham, G. E. ....	9101 Detroit Ave.....	Cleveland, O.
982	4	Benham, W. P. ...	Care Hutchinson & Co., Leader- News Bldg. ....	Cleveland, O.
1760	1	Bennett, Chas. D...	38 Plymouth Ave.....	Buffalo, N. Y.
1525	6	Bennett, G. J. ....	1148 Madison St.....	Milwaukee, Wis.
978	6	Bennett, Henry ..	642 Madison St.....	Milwaukee, Wis.
1021	2	Bennett, J. S. ....	246 Fletcher St.....	Tonawanda, N. Y.
1126	9	Benson, Dan ....		Prairie Depot, O.
1910	3	Berentsen, Jacob..	1010 Oak St.....	Manistee, Mich.



Pen- nant	Lodge	Name	Address	City
104	1	Berrow, J. H.	Box 37, R. F. D. No. 5	Cullman, Ala.
1193	7	Bertrand, Frank	1176 15th St.	Detroit, Mich.
1714	4	Birmingham, Jas.		Geneva, O.
2249	15	Bishop, Joseph	1520 Eighth Ave. E.	Owen Sound, Ont.
1205	4	Blattner, W. H.	2167 East 46th St.	Cleveland, O.
1715	8	Booth, W. H.	R. F. D. No. 2	Marine City, Mich.
1427	3	Bough, Chas.	121 W. Schuyler St.	Oswego, N. Y.
1068	4	Bouille, David	3304 Marvin Ave.	Cleveland, O.
1236	4	Bouille, Pierre	3304 Marvin Ave.	Cleveland, O.
2335	12	Bourassa, Albert	423 E. 6th St.	Duluth, Minn.
595	6	Boyce, H. M.	631 Superior St.	Milwaukee, Wis.
2264	16	Bradden, J. E.	57 Empire Ave.	Port Arthur, Ont.
1503	2	Bradshaw, J. L.	1013 Lincoln Ave.	Pt. Huron, Mich.
1061	7	Brady, T. J.	147 Lathrope Ave.	Detroit, Mich.
1387	4	Brant, Aug.		Central Lake, Mich.
1605	3	Bright, Wm. T.	2707 N. Whipple St.	Chicago, Ill.
2107	14	Brines, Jesse M.	412 Orchard St.	St. Clair, Mich.
2150	14	Brines, Samuel	804 Clinton Ave.	St. Clair, Mich.
973	3	Brion, J. W.	713 Perry-Payne Bldg.	Cleveland, O.
1262	8	Broadbridge, A. T.	Solway Lodge	Detroit, Mich.
1727	1	Broderick, Benj.	565 Forest Ave.	Buffalo, N. Y.
2400	3	Brookhyser, Geo.	434 St. James Place	Chicago, Ill.
1651	1	Brooks, W. H.	57 Royal Ave.	Buffalo, N. Y.
804	2	Brown, C. T.	Miss N. Brown, 35 The Majestic,	Washington, D. C.
1768	2	Brown, Chas. D.	S. O. Co., Steamer Renown	Whiting, Ind.
1673	7	Brown, Claud D.	East Main St.	Geneva, O.
174	4	Brown, F. H.	7004 Franklin Ave.	Cleveland, O.
1198	8	Brown, Hector	368 No. Elizabeth St.	Marine City, Mich.
1531	14	Brown, Nelson	R. F. D. No. 4	St. Clair, Mich.
2034	12	Brower, Harry		Two Harbors, Minn.
1691	6	Brownell, J. A.	935 Allis St.	Milwaukee, Wis.
1083	6	Brownell, Stephen	517 Fifth Ave.	Milwaukee, Wis.
1542	4	Buchanan, Jas.	3302 Denison Ave.	Cleveland, O.
1584	1	Buckley, J.	47 St. Johns Place	Buffalo, N. Y.
995	2	Budd, Melvin	349 West 7th St.	Erie, Pa.
319	1	Buie, Daniel	433 60th St.	Englewood, Ill.
2106	14	Burk, Joseph C.	314 Cass St.	St. Clair, Mich.
2328	17	Burke, B.	Church St.	Penetanguishene, Ont.



Pen- nant	Lodge	Name	Address	City
2319	17	Burke, David	.....Queen Victoria St.....	Midland, Ont.
2316	17	Burke, E. F.	.....Manley St. ....	Midland, Ont.
1117	7	Burke, Enos J.	...415 Wabash Ave.....	Detroit, Mich.
2314	17	Burke, Fred	.....Box 814.....	Midland, Ont.
2305	17	Burke, Roy	.....	Penetanguishene, Ont.
1167	9	Burnham, Geo. H.	207 Chamber of Com.....	Toledo, O.
1827	7	Burns, Geo. C.	....298 Field Ave.....	Detroit, Mich.
1101	2	Burns, Jno.	.....1017 8th St.....	Pt. Huron, Mich.
1294	1	Burns, Jno. J.	....288 14th St.....	Buffalo, N. Y.
1945	1	Burns, James	....468 Elk St.....	Buffalo, N. Y.
1589	4	Burns, T. C.	.....1486 W. 116th St.....	Cleveland, O.
1177	4	Burr, James	.....7209 Clinton Ave.....	Cleveland, O.
2078	8	Burrows, A. W.	.....	Marine City, Mich.
1577	4	Burt, Geo. G.	.....2563 Maplewood Ave.....	Toledo, O.
—	12	Burtch, F. L.	.....New Midland Hotel.....	Duluth, Minn.
2403	4	Bush, Chas. A.	....3115 Clinton Ave. ....	Cleveland, O.
227	2	Buzzard, Jno.	.....Box 82 .....	Blenheim, Ont.
1830	7	Byers, J. C.	.....222 Forest Ave.....	Detroit, Mich.
2365	12	Byers, John F.	....310 South Main St....	Cheboygan, Mich.
2063	3	Byork, O. C.	.....710 E. Main St...	Benton Harbor, Mich.
2298	14	Cahours, Edward.	517 Vine St.....	St. Clair, Mich.
290	4	Call, Richard	....3 Fiske St.....	Ashtabula, O.
1374	7	Callam, A. C.	.....	Amherstburg, Ont.
256	3	Cambell, J. M.	....117 E. 8th St.....	Michigan City, Ind.
1308	3	Campau, L. A.	....358 East 59th St.....	Chicago, Ill.
731	7	Campau, W. H.	...162 Kirby Ave., W.....	Detroit, Mich.
2171	1	Campbell, Chas.	..91 Meridian St.....	Buffalo, N. Y.
2057	4	Campbell, Jno.	....Route 3.....	Millington, Mich.
2071	11	Campbell, R.	.....Box 57, R. F. D. No. 1...	Algonac, Mich.
2103	14	Campbell, Robert.	Box 208 .....	Kingsville, Ont.
2401	15	Campbell, T.	.....Taylor St.....	Wiarton, Ont.
2094	3	Campbell, Walter.	10125 Commercial Ave..	So. Chicago, Ill.
1241	2	Canartney, M.	....715 Franklin Ave.....	Bay City, Mich.
1961	7	Cannolly, J. T.	...1109 Gillett Ave.....	Port Huron, Mich.
1609	2	Carlisle, T. J.	....1018 Poplar St.....	Pt. Huron, Mich.
914	4	Carloss, W. S.	....4715 Clinton Ave.....	Cleveland, O.
149	3	Carr, Jas.	.....353 South Normal Parkway .....	.....
			.....	Chicago, Ill.
2397	1	Carr, Jas.	.....Tonawanda Fuel Co..	Tonawanda, N. Y.
1540	7	Carr, Whitney	....22 Spruce St.....	Ashtabula, O.



Pen- nant	Lodge	Name	Address	City
2307	17	Carson, Wm. ....	Box 361 .....	Midland, Ont.
439	6	Carter, W. J. ....	219 23rd St.....	Milwaukee, Wis.
1908	6	Cartwright, Peter..	560 5th Ave.....	Milwaukee, Wis.
1819	6	Carus, Edw. ....	1209 Franklin St.....	Manitowoc, Wis.
1890	10	Casey, Henry ....	118 Elizabeth St....	Ogdensburg, N. Y.
1495	2	Cassin, James ....	1334 Lapeer Ave.....	Pt. Huron, Mich.
2360	16	Cassin, Josue ....	68 Algoma St.....	Port Arthur, Ont.
1861	6	Cavanaugh, J. F...309	2nd St.....	Grand Rapids, Mich.
2028	12	Chamberlain, W. B..	516 East 7th St.....	Duluth, Minn.
861	2	Chambers, A. P...829	Prospect Pl.....	Pt. Huron, Mich.
2152	14	Chambers, D. G.....		Courtwright, Ont.
44	4	Chapman, A. C. ...1472	Robinwood Ave.....	Lakewood, O.
293	4	Chapman, C. B. ..360	Washington Ave.....	Lorain, O.
1845	1	Chilson, W. E. ...150	Woodward St.....	Buffalo, N. Y.
1125	3	Christensen, A. ..753	Farwell Ave.....	Milwaukee, Wis.
2369	4	Christensen, C. ...4208	John Ave.....	Cleveland, O.
892	6	Christenson, P. ..815	State St.....	Manitowoc, Wis.
1355	7	Christie, Chas. ...541	Clinton Ave. ....	Detroit, Mich.
1172	3	Christopher, S. ...1928	N. Richmond St.....	Chicago, Ill.
252	3	Chron, Thos. ....223	Adams.....	Bay City, Mich.
1393	1	Clark, J. C. ....		Crittenden, N. Y.
1085	7	Clarke, A. A. ....	Care Inland Steel Co.	Indiana Harbor, Ind.
35	1	Clarke, George H..424	Normal Ave.....	Buffalo, N. Y.
1844	1	Clarke, J. M. ....575	Tonawanda St.....	Buffalo, N. Y.
1508	1	Clarke, W. E. ....285	14th St.....	Buffalo, N. Y.
1696	6	Claussion, G. T....571	5th Ave.....	Milwaukee, Wis.
2064	12	Clegg, H. J. ....405	5th Ave.....	Lorain, O.
433	4	Cleveland, C. R...3500	Denison Ave.....	Cleveland, O.
1244	7	Clifford, Alex. ....878	Fort St. E.....	Detroit, Mich.
370	3	Clow, J. M. ....1232	Merryman St.....	Marinette, Wis.
642	3	Cochrane, David ..3530	Ellis Ave.....	Chicago, Ill.
1070	4	Cody, F. B. ....	Care J. W. Petch, Walkerville	
				Ont., Can.
438	4	Colbert, Thos. ....1440	E. 89th St. ....	Cleveland, O.
116	1	Coleman, J. H. ...	Care Jno. Perew, 317 Chamber of	
			Commerce .....	Buffalo, N. Y.
274	4	Collier, W. A. ....2185	E. 71st St.....	Cleveland, O.
1563	4	Conkey, C. M. ....8010	Luella Ave.....	Chicago, Ill.
1949	14	Conlin, T. N. ....315	Trumble St.....	St. Clair, Mich.
2101	6	Cook, Jacob F....679	Clinton St.....	Milwaukee, Wis.
1274	6	Cook, J. G. ....133	Oneida St.....	Milwaukee, Wis.



Pen- nant	Lodge	Name	Address	City
1309	9	Cook, J. W. ....	57 So. Elliott Pl.....	Brooklyn, N. Y.
1599	6	Coon, Geo. ....	441 Cass St. ....	Milwaukee, Wis.
1930	2	Cooper, J. E. ....	2784 Military St.....	Pt. Huron, Mich.
50	1	Corcoran, Jos. ....	225 E. 3rd St.....	Erie, Pa.
1977	9	Cornwall, A. W....	Gt. Lakes Tow. Co.....	Toledo, O.
738	4	Cottrell, G. L. ....	1290 Lakeland Ave.....	Lakewood, O.
1257	8	Cottrell, J. E. ....	Elizabeth St.....	Marine City, Mich.
2055	1	Coughlin, Michael.	179 O'Connell Ave.....	Buffalo, N. Y.
448	1	Coughlin, Daniel ..	563 Perry St.....	Buffalo, N. Y.
1954	4	Cowie, Andrew ...	1510 Coutant St.....	Lakewood, O.
1012	2	Cowles, W. J. ....	R. F. D. 1.....	Blaine, Mich.
1447	7	Craig, J. C. ....	134 Tyler Ave....	Highland Park, Mich.
1135	4	Craigie, Alex. ....	1389 West 64th St.....	Cleveland, O.
1717	1	Crawford, G. B. ...	205 Vorhees Ave.....	Buffalo, N. Y.
1874	6	Crawford, J. G. ...	701 W. Ludington Ave.....	Ludington, Mich.
2059	3	Crawford, J. M. ..	20 Graves Place.....	Holland, Mich.
1730	2	Crockett, T. J. ...	437 11th St.....	Pt. Huron, Mich.
1664	2	Crooker, D. M. ...	2708 Gratiot Ave.....	Pt. Huron, Mich.
1076	7	Crosby, W. J. ....	379 Cavalry Ave.....	Detroit, Mich.
1445	3	Cullnan, Jno. ....	1909 Newport Ave.....	Chicago, Ill.
2193	11	Cole, Fred S. ....	.....	Algonac, Mich.
2157	12	Cole, Martin ....	807 12th Ave. E.....	Duluth, Minn.
2159	4	Collins, Allen ....	1528 Northland Ave.....	Lakewood, O.
2234	15	Cormett, D. F. ....	376 17th St. E.....	Owen Sound, Ont.
2233	15	Cormett, W. E.....	376 17th St. E.....	Owen Sound, Ont.
1523	4	Culp, Hamilton ...	Box 575 .....	Willoughby, O.
2292	4	Culp, John W. ....	R. F. D. 2 .....	Willoughby, O.
2388	3	Cummings, Geo.....	.....	Saugatuck, Mich.
1252	9	Cunningham, J. J..	1727 Ontario St.....	Toledo, O.
827	1	Cunningham, J. J..	59 Ardmore Pl.....	Buffalo, N. Y.
2315	17	Cumingham, W. J..	Hagal Ave. ....	Midland, Ont.
2224	10	Curran, John F. ..	66 Patterson St....	Ogdensburg, N. Y.
2240	9	Dagon, Dennis ...	339 Wabash St.....	Toledo, O.
1360	7	Dailey, Michael ..	252 Brady St.....	Milwaukee, Wis.
1987	7	Davie, D. W. ....	62 Beals Ave. ....	Detroit, Mich.
121	2	Davis, E. H. ....	717 Division St.....	Pt. Huron, Mich.
1812	1	Davis, Henry J.....	.....	Miami, Florida.
138	2	Davis, H. W. ....	703 Ontario St.....	Port Huron, Mich.
2207	15	Davis, J. F. ....	.....	Warton, Ont.
1637	4	Dawley, W. W. ...	R. F. D. 1.....	Conneaut, O.



Pen- nant	Lodge	Name	Address	City
105	1	Durker, Henry	...4901 W. Van Buren St....	Chicago, Ill.
1803	4	Durney, Jno.	.....Central Hotel.....	Cleveland, O.
1127	4	Dyble, Edw.	.....14419 Detroit Ave.....	Lakewood, O.
2251	12	Dyrness, Ole	.....1805 Maryland Ave. ....	Superior, Wis.
2257	3	Eaton, R. C.	.....519 Spring St.....	Michigan City, Ind.
1425	3	Edwards, M. L.	...2758 Osgood St.....	Chicago, Ill.
2194	12	Ege, Gustaf	.....2322 West 4th St.....	Duluth, Minn.
2374	12	Ege, Louis	.....2322 West 4th St.....	Duluth, Minn.
1975	3	Eger, W. W.	.....218 Seeley Ave.....	Chicago, Ill.
1494	4	Ehrhart, J. W.	....2007 East 2nd St.....	Duluth, Minn.
2158	12	Elden, Otto J.	.....208 Exchange Bldg.....	Duluth, Minn.
952	4	Eldridge, H. C.	...1296 West 78th St. N. W...	Cleveland, O.
899	3	Elliott, A. M.	.....3458 Wrightwood Ave.....	Chicago, Ill.
2048	3	Elliott, C. A.	.....3458 Wrightwood Ave.....	Chicago, Ill.
1363	3	Elliott, Frank	....1049 Insurance Exchange, 175 Jack- son Blvd. ....	Chicago, Ill.
2080	7	Ellis, Claude A.	.....	Douglas, Mich.
1483	4	Ellis, F. S.	.....1348 E. 111th St.....	Cleveland, O.
2154	3	Emersen, S. R.	.....3727 Lyndale Ave.....	Chicago, Ill.
2084	12	England, E. F.	.....614 Torrey Building.....	Duluth, Minn.
1219	4	England, R. W.	...1370 West 112th St.....	Cleveland, O.
272	4	Ennes, C. G.	.....1231 West 117th St.....	Cleveland, O.
1529	4	Ennes, Everett	...422 Jackson St.....	Sandusky, O.
2331	3	Emigh, H. W.	.....Box 35 .....	Lexington, Mich.
1989	6	Ericksen, Henry	..1056 $\frac{1}{2}$ 18th St.....	Milwaukee, Wis.
1994	7	Ernest, C. W.	....923 Trumbull Ave.....	Detroit, Mich.
2007	1	Ernest, F. H.	....35 Boyd St.....	Buffalo, N. Y.
1886	3	Evans, Edw.	.....841 North Sacramento Blvd.,	Chicago, Ill.
1608	3	Evans, Jno.	.....709 First St. ....	St. Joseph, Mich.
1536	3	Evans, Robert T.	...1108 Miles Ave. ....	St. Joseph, Mich.
1885	6	Evanson, Arnold.	..1157 $\frac{1}{2}$ Madison St....	Milwaukee, Wis.
373	2	Everett, A.	.....Room 6, 300 West So. Water St....	Chicago, Ill.
2275	16	Fader, A.	.....304 River St. ....	Port Arthur, Ont.
1361	4	Faragher, Wm.	...1354 Edward St.....	Lakewood, O.
1838	8	Fehmer, Otto	.....255 N. Elizabeth St...	Marine City, Mich.
1386	4	Ferguson, J. A.	...106 Marquette Ave....	Bay City, Mich.
2340	3	Ferguson, Jas. J.	...1548 N. Keeler Ave.....	Chicago, Ill.
629	7	Ferguson, R. E.	..32 Janette Ave.....	Windsor, Ont.
1041	4	Ferguson, Wm.	...1433 Robinwood Ave.....	Lakewood, O.
2266	16	Ferguson, W. J.	..233 South John St...	Fort William, Ont.



NAMES AND ADDRESSES

Pen- nant	Lodge	Name	Address	City
1997	2	Farley, E. J. ....	1016 Erie St. ....	Port Huron, Mich.
347	4	Fick, F. A. ....	1638 East 86th St.....	Cleveland, O.
1464	1	Finegan, O. P. ....	22 Gelston St.....	Buffalo, N. Y.
2069	14	Finnegan, Herbert.	105 N. 5th St.....	St. Clair, Mich.
1974	3	Fischer, Robert ..	339 So. Cicero Ave.....	Chicago, Ill.
1446	4	Fitch, E. ....	1562 Cohasset Ave.....	Lakewood, O.
1457	3	Fitch, Edw. ....	609 So. Oak Park Ave....	Oak Park, Ill.
1465	7	Flaherty, Jos. ....	Marine P. O.....	Detroit, Mich.
971	2	Fleck, Jas. A. ....	1475 Olivewood Ave.....	Lakewood, O.
42	1	Fletcher, Wm. ....	18 Kenefick Ave.....	Buffalo, N. Y.
451	3	Flood, G. W. ....	3059 Warren Ave.....	Chicago, Ill.
1227	8	Folsom, F. C. ....	225 Richton Ave...Highland Park, Mich.	
2180	12	Forbes, Arthur ...	Gen. Delivery .....	Manitowoc, Wis.
1417	7	Forbes, Alex. ....	71 Hazelwood Ave.....	Detroit, Mich.
1141	7	Forton, F. S. ....	34 Fessenden St...Mt. Clemens, Mich.	
1951	2	Foster, Jno. ....	323 Hubbard Ave. ....	Detroit, Mich.
2235	6	Fowler, Christa C.....		Montague, Mich.
1629	2	Fowler, Thos. ....	291 Vermont Ave.....	Detroit, Mich.
1679	4	Fowlie, Andrew .....		Goderich, Ont.
612	7	Fox, A. J. ....	Foot of 1st St.....	Detroit, Mich.
1026	4	Fox, Benson ....	1634 E. 86th St.....	Cleveland, O.
1815	7	Fox, Chas. ....		Mt. Clemens, Mich.
2030	12	Fox, Henry ....	General Delivery..	Two Harbors, Minn.
1576	9	Fox, J. C. ....		Put-in-Bay, O.
2262	4	Francis, L. J. ....	3215 West 86th St.....	Cleveland, O.
1970	6	Franklin, W. E. ..	1005 State St.....	Traverse City, Mich.
2329	15	Frewer, Geo. D. ...	Mimico Beach .....	Toronto, Ont.
2279	16	Friday, H. ....	8 Machar Ave.....	Port Arthur, Ont.
2276	16	Friday, J. ....	285 Park St.....	Port Arthur, Ont.
2022	2	Frilay, H. W. ....	2056 Military St.....	Pt. Huron, Mich.
2378	4	Full, Peter .....		Vermilion, O.
200	3	Gallagher, A. ....	604 Garfield Ave.....	Duluth, Minn.
2074	12	Gallagher, B. J....	1322 Ludington St....	Escanaba, Mich.
2100	12	Gallagher, J. H....	10644 Waldon Parkway....	Chicago, Ill.
2215	6	Gallagher, L. A....	2408 Elm St.....	Milwaukee, Wis.
986	3	Gallino, A. P. ....	416 Jay St.....	St. Clair, Mich.
1771	11	Galton, F. D. ....		Algonac, Mich.
2019	11	Galton, J. W. ....		Algonac, Mich.
1911	10	Gamash, Fred ....	36 Patterson St.....	Ogdensburg, N. Y.
2371	4	Gardner, Chas. B..	2044 Warren Rd.....	Lakewood, O.



Pen- nant	Lodge	Name	Address	City
2336	12	Garner, Alfred D.	Zenith Furnace Co.	Duluth, Minn.
2366	16	Garriock, James	222 Angus St.	Port Arthur, Ont.
2285	16	Garriock, W.	222 Angus St.	Port Arthur, Ont.
1552	6	Garrity, Thos.	935 Newhall St.	Milwaukee, Wis.
1585	7	Gatfield, E. D.		Grosse Isle, Mich.
1653	1	Gebhard, F. R.	1308 Michigan St.	Buffalo, N. Y.
1684	2	Geel, Guy G.	Care Commercial Bank	Port Huron, Mich.
2265	16	Gehl, H. L.	283 College St.	Port Arthur, Ont.
2342	3	Gellich, B. J.	1029 Webster St.	Traverse City, Mich.
2310	17	German, Frank	Box 951	Sault Ste. Marie, Ont.
1723	1	Gibson, Jas.	290 Connecticut St.	Buffalo, N. Y.
1060	1	Gibson, Jas. R.	692 Prospect Ave.	Buffalo, N. Y.
2393	12	Gibson, Norman	86 Grand St.	Buffalo, N. Y.
831	9	Gillespie, I. G.	Box 566	Pt. Clinton, O.
1600	7	Girardin, D. C., Jr.	1438 14th Ave.	Detroit, Mich.
1595	4	Girardin, W. L.	1432 Westwood Ave.	Lakewood, O.
1920	7	Gleason, J. F.	702 Lincoln Ave.	Detroit, Mich.
2117	4	Glenn, Alex.	2325 East 100th St.	Cleveland, O.
2037	12	Glenn, M. E.	4106 West 4th St.	Duluth, Minn.
2025	12	Glockle, M. B.	Gen. Delivery	Paraiso, Canal Zone
2399	10	Gooden, Frank	119 Lafayette St.	Ogdensburg, N. Y.
1054	7	Goodrow, Frank	475 Cadillac Ave.	Detroit, Mich.
1403	4	Goodwin, J. F.	2066 W. 87th St.	Cleveland, O.
1526	7	Gordon, D. G.	504 Chamber of Commerce,	Care C. A. Chamberlin
2354	17	Gould, C. E.	Mary St.	Midland, Ont.
1493	4	Gould, F. E.	1591 E. 86th St.	Cleveland, O.
770	1	Graham, Geo.	433 Prospect Ave.	Buffalo, N. Y.
1314	1	Grant, C. J.	805 Main St.	Conneaut, O.
1779	11	Grant, Theo.	Box 78	Algonac, Mich.
1588	4	Grashaw, W.	2360 E. 89th St.	Cleveland, O.
120	1	Grasser, Geo. L.	Nueva Gerona	Isle of Pines, Cuba
1568	3	Green, Arnold	3231 Potomac Ave.	Chicago, Ill.
2042	12	Green, Chas. H.	1515 E. 4th St.	Duluth, Minn.
1016	1	Green, J. D.	955 West Ave.	Buffalo, N. Y.
2049	1	Green, Jos. M.	529 Woodlawn Ave.	Buffalo, N. Y.
2114	12	Green, Peter	Box 74	Manistique, Mich.
1150	14	Greening, Wm.	822 Arch St.	Ann Arbor, Mich.
2122	6	Grimm, Otto C.	566½ 7th Ave.	Milwaukee, Wis.
2221	12	Gunderson, G.	607 Johnston St.	Sault Ste. Marie, Mich.



NAMES AND ADDRESSES

Pen- nant	Lodge	Name	Address	City
1596	4	Gustafson, Peter ..	2237 Carnegie Ave.....	Cleveland, O.
1786	7	Hackett, T. H. ....	477 4th Ave. ....	Detroit, Mich.
786	8	Hagan, Wm. ....	336 Union St. ....	Marine City, Mich.
1204	4	Hahn, Chas. P. ...	Box 46 .....	Vermilion, O.
170	1	Hall, Jno. B. ....	133 Lafayette St.....	Buffalo, N. Y.
1153	3	Hamilton, W. D...2341	S. Lincoln St.....	Chicago, Ill.
2110	14	Hamilton, Wm. L..S.	2nd St.....	St. Clair, Mich.
1197	4	Hand, A. S. ....	533 Harbor St.....	Conneaut, O.
1754	1	Hanley, C. C. ....	371 Falconer St...N.	Tonawanda, N. Y.
1140	1	Hansen, A. C. ....	2528 Main St.....	Buffalo, N. Y.
2004	3	Hansen, Hans ...	3216 N. Richmond St.....	Chicago, Ill.
2085	12	Hansen, Hans C...3819	West 4th St.....	Duluth, Minn.
1612	7	Hansen, J. T. ....	1900 Scotten Ave. ....	Detroit, Mich.
1140	3	Hanson, Andrew..	3252 Pierce Ave.....	Chicago, Ill.
1304	9	Harlow, F. T.....	1577 W. 29th St.....	Cleveland, O.
553	9	Harlow, W. J. ....	Mitchell & Co. ....	Cleveland, O.
641	2	Harper, Geo. ....	1509 Marquette Ave.,	W. Bay City, Mich.
2348	1	Harrison, Wood ..	49 Spruce St.....	Buffalo, N. Y.
388	2	Harrow, W. B. ....	1049 Warren Ave. W....	Detroit, Mich.
155	7	Hart, Fred C. ....	257 Forest Ave., West...	Detroit, Mich.
2105	14	Hartman, A. ....	921 E. 105th St.....	Cleveland, O.
1187	1	Hartman, Jno. J. ..	36 Lafayette Ave.....	Buffalo, N. Y.
506	4	Hawgood, A. H. ..	220 Perry-Payne Bldg....	Cleveland, O.
2404	2	Hayes, John E....	202 Glenwood Ave...Port	Huron, Mich.
1159	1	Hayes, W. J. ....	235 Broad St.....	Tonawanda, N. Y.
1884	6	Hays, Jno. C. ....	General Delivery ....	Menominee, Mich.
1924	14	Hayward, E. H. ..	R. F. D. 2.....	St. Clair, Mich.
1834	14	Hayward, Geo. ...	76 Walnut St. ....	Ashtabula, O.
2242	1	Healy, James J. ..	2203 Seneca St.....	Buffalo, N. Y.
1811	1	Heaney, Jno. C. ..	47 Barry Pl.....	Buffalo, N. Y.
1106	4	Heaton, C. H. ....	1426 West 107th St.....	Cleveland, O.
2252	12	Hector, Fred ....	1017 East 3rd St.....	Duluth, Minn.
1728	1	Hefferman, Jas. ..	68 Seymour St.....	Tonawanda, N. Y.
1760	1	Hefferman, T. N...39	Grove St.....	Tonawanda, N. Y.
1773	11	Hemenger, F. R. ....	.....	Algonac, Mich.
1502	2	Hendricks, Edw. ..	578 Townsend Ave.....	Detroit, Mich.
1527	6	Hendricksen, O....	Milwaukee Tug Boat Office.....	Milwaukee, Wis.
2140	8	Henry, A. W. ....	Box 42.....	Marine City, Mich.
1963	1	Heppner, Phillip ..	376 Adams St.....	Tonawanda, N. Y.



Pen- nant	Lodge	Name	Address	City
1029	1	Herbert, Fred	Care Lighthouse Inspector.	Buffalo, N. Y.
1497	1	Herbert, J. G.	Care John Perew, 317 Chamber of Commerce	Buffalo, N. Y.
1136	4	Hergenrother, J.	3266 W. 82nd St.	Cleveland, O.
826	9	Herrick, T. C.	3368 Cherry St.	Toledo, O.
1721	8	Hetherington, N. M.	341 Main St.	Marine City, Mich.
1359	3	Higgie, J. F.	136 S. Waller Ave.	Austin, Ill.
362	3	Higgins, Thos. J.	302 N. Lockwood, Austin Sta.	Chicago, Ill.
1421	8	Hill, Fred C.		Marine City, Mich.
2318	17	Hill, Ira D.		Midland, Ont.
2381	3	Hillstrand, H.	2200 North 5th Ave.	Chicago, Ill.
391	4	Hinslea, C. H.	2836 Franklin Ave.	Cleveland, O.
1184	4	Hinslea, Henry	1522 Robinwood Ave.	Lakewood, O.
1004	4	Hoag, W. S.	1940 W. 74th St.	Cleveland, O.
881	7	Hoffman, Frank	218 Vinewood Ave.	Detroit, Mich.
22	1	Hogg, G. L.	4169 S. Halsted St.	Chicago, Ill.
2206	15	Hogue, Archie	R. R. No. 7.	Owen Sound, Ont.
666	7	Holbrook, T. H.	291 Whitney Ave.	Detroit, Mich.
1553	4	Holdridge, Geo.	R. F. D. No. 3.	Geneva, O.
1820	14	Hollingshead, J.		Vernalas, Cal.
1946	9	Holman, Henry	2112 Chase St.	Toledo, O.
1756	1	Holmberg, H.	217 Auburn Ave.	Buffalo, N. Y.
1887	4	Holmes, A. W.	10403 Euclid Ave., S. 1.	Cleveland, O.
269	4	Holmes, J. A.	307 Superior Ave.	Cleveland, O.
2184	6	Holt, Carl A.		Sturgeon Bay, Wis.
1602	7	Holt, Jas. G.	205 Old Custom House	Detroit, Mich.
1832	7	Honner, G. W.	471 Delaware Ave.	Detroit, Mich.
160	4	Hoover, N. E.	9715 Madison Ave. N. W.	Cleveland, O.
1707	7	Hormig, W. F.	71 Highland Ave.	Highland Park, Mich.
1547	7	Hosner, V. L.		Romeo, Mich.
1018	3	Howard, Martin	4754 Union Ave.	Chicago, Ill.
1091	1	Howe, A. B.	226 Gettysburg Ave.	Dayton, O.
1878	6	Hoxie, A. K.	511 N. Charles St.	Ludington, Mich.
2041	12	Hoy, W. E.	212 W. Superior St.	Duluth, Minn.
572	3	Hubbard, C. H.	Care Light House Inspector	Milwaukee, Wis.
2320	17	Hudson, A. A.	Box 299	Midland, Ont.
2321	17	Hudson, J. H.	Box 335	Midland, Ont.
1555	2	Hughes, H. S.	191 Vandervoort St.	No. Tonawanda, N. Y.



# NAMES AND ADDRESSES

Pen- nant	Lodge	Name	Address	City
2116	4	Hughes, Joseph	..727 East 120th St.....	Cleveland, O.
264	4	Humphrey, W. H.	..558 E. 102nd St.....	Cleveland, O.
1017	4	Hunt, W. J.	.....1528 Lauderdale Ave....	Lakewood, O.
1851	7	Huntoon, Fred A.	..121½ Lawton St.....	Detroit, Mich.
893	7	Hursley, J.	.....126 Park Pl.....	Sault Ste. Marie, Mich.
987	7	Hutchins, F. C.	.....	S. Rockwood, Mich.
2082	1	Hutchins, H. J.	...93 Elk St. ....	Buffalo, N. Y.
528	7	Hutton, Jno. T.	...69 McLean Ave...	Highland Park, Mich.
1443	7	Iler, W. C.	.....212 24th St. ....	Detroit, Mich.
1035	4	Ingraham, F. E.	..221 S. 5th St.....	Alhambra, Cal.
15	7	Ivers, J. H.	.....363 Commonwealth Ave...	Detroit, Mich.
1479	11	Jackson, R. C.	....Box 135.....	Algonac, Mich.
1208	3	Jacobson, J. E.	...4706 Grand Ave., W....	Duluth, Minn.
1909	3	Jaenke, Herman	..10436 Avenue M.....	Chicago, Ill.
1852	7	Jagenow, Wm.	....922 Mt. Elliott Ave.....	Detroit, Mich.
2241	2	Jamison, A. W.	....1115 Elmwood St.....	Pt. Huron, Mich.
481	6	Jamieson, Wm.	...357 3rd Ave.....	Milwaukee, Wis.
2014	1	Jansen, J. C.	.....25 Mesmer Ave.....	Buffalo, N. Y.
359	3	Jenks, Jno.	.....5735 Normal Blvd.....	Chicago, Ill.
1906	6	Jenkyn, Alex.	....176 Bridge St.....	Ashtabula, O.
2149	14	Jerome, W. R.	....230 9th St.....	St. Clair, Mich.
2317	17	Jewell, W. J.	.....Dominion St.....	Midland, Ont.
1131	9	Jex, H. N.	.....1749 Summit St.....	Toledo, O.
2287	12	Johns, J. F.	.....	Grand Marais, Minn.
1081	7	Johnson, Alex	....1009 9th St.....	Bay City, Mich.
1976	1	Johnson, Alfred	..66 Eugene St.....	Kenmore, N. Y.
1603	3	Johnson, Carl	....3417 Palmer St. ....	Chicago, Ill.
2061	3	Johnson, Geo. E.	..512 5th Ave.....	Traverse City, Mich.
2044	12	Johnson, Henry	..470 W. 7th St. ....	Superior, Wis.
394	1	Johnson, Jno.	....Frontier Engine Works, Foot Illinois St. ....	Buffalo, N. Y.
1394	4	Johnson, Martin	..10122 Olivet Ave. N. E....	Cleveland, O.
1604	3	Johnson, Martin	..102 N. Ashland Ave.....	LaGrange, Ill.
2212	6	Johnson, Oscar	...614 Cushman St.....	Marinette, Wis.
2291	4	Johnson, Roy E.	..765 Central Ave.....	Cleveland, O.
1481	11	Johnson, Wm. H.	..666 Pennsylvania Ave....	Detroit, Mich.
1014	2	Johnston, Edw.	...R. F. D. 2, Box 266 .....	Geneva, O.
1793	2	Johnston, Jas.	....10604 Cedar Ave.....	Cleveland, O.
1330	4	Johnston, J. M.	...1579 Bonnie View Ave...	Lakewood, O.
1767	2	Johnston, Martin	..2120 8th St.....	Pt. Huron, Mich.
1020	4	Jollie, Richard	.....	Jefferson, O.



Pen- nant	Lodge	Name	Address	City
2024	12	Jones, A. M.	1001 Torrey Bldg.	Duluth, Minn.
1988	7	Jones, C. A.		Canet Colony, Minas, Cuba, Province of Carnaguey
1451	3	Jones, Harry	122 Woodside Ave.	Buffalo, N. Y.
1115	4	Jones, Jno. F.	5806 Clinton Ave.	Cleveland, O.
1534	6	Jones, Warren	Milwaukee Tug Line.	Milwaukee, Wis.
1798	7	Judson, H. W.	239 Rosedale Ct.	Detroit, Mich.
865	7	July, Edw. F.	1515 Rosemont Ave.	Chicago, Ill.
2247	4	Kane, R. L.	1728 London Rd.	Duluth, Minn.
1690	6	Kearns, Chas. J.	791 33rd St.	Milwaukee, Wis.
1122	7	Kearns, Joseph	139 Oak St.	Wyandotte, Mich.
1442	4	Keller, A. B.	13935 Euclid Ave.	East Cleveland, O.
1578	1	Kelley, A.	51 Kenefick Ave.	Buffalo, N. Y.
1237	4	Kelley, H. T.	1068 East 99th St.	Cleveland, O.
1240	2	Kelley, Jas. W.	2021 7th St.	Pt. Huron, Mich.
1772	11	Kendall, Douglas	963 W. 4th St.	Erie, Pa.
1606	8	Kendall, Geo. B.		Algonac, Mich.
89	2	Kendall, H. J.	Box 32	Marysville, Mich.
1625	7	Kennedy, Jas.	703 Whitney Bldg.	Detroit, Mich.
2395	1	Kennedy, John	456 Massachusetts Ave.	Buffalo, N. Y.
2380	4	Kentosh, M. J.	High St.	Fairport Harbor, O.
1776	11	Kenworthy, S.	Box 212	Algonac, Mich.
1915	14	Kenyon, Wm. S.	R. F. D. 4	St. Clair, Mich.
1650	1	Kerr, Harry	117 S. Division St.	Buffalo, N. Y.
1863	10	Kiah, Jr., David	94 Green St.	Ogdensburg, N. Y.
2255	6	Kiel, Wm. T.	718 Oregon St.	Oshkosh, Wis.
1746	10	Kinch, Geo. H.	85 New York Ave.	Ogdensburg, N. Y.
1229	8	Kinyon, S. D.	128 Bridge St.	Marine City, Mich.
1266	9	Kirker, Fred	9424 Budlong Ave.	Los Angeles, Cal.
1785	7	Klinger, Geo. M.	1079 Van Dyke Ave.	Detroit, Mich.
1388	1	Klock, E. M.		Three Mile Bay, N. Y.
1661	2	Knapp, R. H.	2313 Elk St.	Pt. Huron, Mich.
1687	1	Koch, Robt.	451 Dodge St.	Buffalo, N. Y.
1437	3	Kohnert, J. E.	117 E. 36th Place.	Chicago, Ill.
1998	2	Krenkel, Chas.	2035 8th St.	Pt. Huron, Mich.
2226	6	Kruwell, W. E. H.	1252 2nd St.	Milwaukee, Wis.
1243	8	Kuhn, John	Pearl & Main Sts.	Marine City, Mich.
2091	8	Laffrey, Delos		Marine City, Mich.
1879	6	LaFleur, W. H.	302 N. Robert St.	Ludington, Mich.
557	2	Laframboise, J.		Amherstburg, Ont.
1010	4	Laframboise, J.	5647 Sunset Blvd.	Los Angeles, Cal.



Pen- nant	Lodge	Name	Address	City
2352	10	Lago, Thomas	....155 Green St.....	Ogdensburg, N. Y.
2322	17	Laking, A. E.	.....Box 143 .....	Midland, Ont.
810	4	Lalonde, Anthony.	1766 Fulton Rd.....	Cleveland, O.
2136	9	Lamb, Harry	....1315 Mason St.....	Toledo, O.
1381	3	Lamoreaux, Jos.	....6724 Champlain Ave.....	Chicago, Ill.
960	4	Lampoh, Jos.	....14304 Detroit St.....	Lakewood, O.
1295	4	Landfair, B.	....1438 W. 77th St. ....	Cleveland, O.
1617	3	Lang, Julius	....?229 Eastwood Ave.....	Chicago, Ill.
2000	8	Langell, L. P.	....Cor. Pearl & Elizabeth Sts.....	..... Marine City, Mich.
2213	8	Langell, Thomas	..R. F. D. No. 1.....	Marine City, Mich.
2301	10	Larosee, Hector	..S. S. Omaha, Canal Off., Cornwall, Ont.	
2211	6	Larsen, J. L.	....215 Hosmer St.....	Marinette, Wis.
2111	1	Larson, John A.	..83 East Seneca St.....	Buffalo, N. Y.
1765	6	Larson, N. L.	....552 29th Ave.....	Milwaukee, Wis.
1206	6	Larson, P.	....3528 W. Belden Ave.....	Chicago, Ill.
2146	7	Loughin, G. F.	....1557 W. Grand Blvd.....	Detroit, Mich.
2375	12	LaVaque, J. C.	....429 East Second St.....	Duluth, Minn.
2012	1	Lavell, Nels	....94 Harriet St.....	Tonawanda, N. Y.
1967	8	Lavelly, L. J.	.....	Marine City, Mich.
2311	17	Lavigne, Wm. A.	..Box 647 .....	Midland, Ont.
2299	14	Lawrence, Earl J.	.....	East China, Mich.
2248	15	Leaney, Harry	....1568 3rd Ave...East Owen Sound, Ont.	
1352	4	Leckie, Fred	....1020 Rockefeller Bldg....	Cleveland, O.
1678	6	Lee, I. M.	....322 Neva Pl. ....	Los Angeles, Cal.
2323	17	Legree, Joseph	...Manly St. ....	Midland, Ont.
498	6	Leisk, Jno.	....730 Wilson St.....	Milwaukee, Wis.
500	6	Leisk, Henry	....16 Kenwood Ave. ....	Wauwatosa, Wis.
2260	6	Leisk, Henry A.	..683 Murray Ave.....	Milwaukee, Wis.
1285	3	Leith, Alex.	....2100 N. Albany Ave.....	Chicago, Ill.
1996	3	Leith, W. R.	....2100 N. Albany Ave.....	Chicago, Ill.
1688	7	Leonard, R. M.	.....	New Baltimore, Mich.
1734	10	Leonard, M. A.	...416 Ford St.....	Ogdensburg, N. Y.
2342	4	Leroy, T. G.	....8811 Detroit Ave.....	Cleveland, O.
2300	4	Levis, George	....1329 West 87th St.....	Cleveland, O.
2181	12	Lewis, Frank	.....	Dundee, Mich.
1424	4	Light, F. W.	.....	Perry, O.
1901	7	Lightbody, J.	....164 Holbrook Ave.....	Detroit, Mich.
2005	3	Lindale, T. T.	....4904 Byron St.....	Chicago, Ill.
2183	14	Linton, Walter E.	.....	Mooretown, Ont.
1774	11	Little, Nelson T.	.....	Algonac, Mich.



Pen- nant	Lodge	Name	Address	City
2195	7	Littlejohn, Wm. ..1265	Iroquois Ave.....	Detroit, Mich.
750	7	Livingstone, W., Jr.2217	Dime Savings Bank Bldg. .....	Detroit, Mich.
2038	12	Lloyd, W. S. ....1001	Torrey Bldg.....	Duluth, Minn.
2336	8	Lockhart, Asa ....544	Woodworth Ave..	Marine City, Mich.
1079	9	Lockhart, D. O....Box 739	.....	River Rouge, Mich.
283	3	Loftus, H. F. ....	.....	Walworth, Wis.
1789	4	Logan, J. A. ....4008	Archwood Ave.....	Cleveland, O.
603	7	Lohr, Edw. ....	.....	Caseville, Mich.
1559	9	Lohr, J. M. ....	.....	Marine City, Mich.
2243	2	Lott, E. O. ....360	Wellington St.....	Sarnia, Ont.
1800	10	Loveless, Fred ...28	Pickering St.....	Ogdensburg, N. Y.
182	4	Lowe, J. ....1426	Mars Ave.....	Lakewood, O.
164	4	Lowe, J. B. ....1783	W. 48th St.....	Cleveland, O.
1836	14	Lowes, Jos. H. ...210	Adams St.....	St. Clair, Mich.
1809	1	Lucas, W. J. ....50	Greenwood Pl.....	Buffalo, N. Y.
1644	7	Ludington, Lewis..212	Forest St., W.....	Detroit, Mich.
2173	12	Lyons, G. A. ....605	Kimball St...Sault Ste. Marie,	Mich.
1487	9	Lyons, J. B. ....1334	6th St.....	Lorain, O.
197	4	Lyons, R. J. ....1111	W. Erie Ave.....	Lorain, O.
1490	11	Lyons, S. A. ....917	E. Ann St.....	Ann Arbor, Mich.
2224	4	McAlpine, Hugh ..1794	W. 47th St.....	Cleveland, O.
972	7	McAlpin, Jno. ....142	14th Ave.....	Detroit, Mich.
78	2	McArthur, Jno. ...Box 162,	Care S. A. Staton .....	Sacramento, Cal.
875	7	McCallum, H. C. ..1315	Military St....	Port Huron, Mich.
300	3	McCambridge, T...306	2nd St.....	Grand Haven, Mich.
1199	8	McCann, S. B. ....201	Market St. ....	Marine City, Mich.
2201	18	McCannel, J. ....	.....	Port McNicoll, Ont.
1112	7	McCarthy, D. ....45	Dunster Road..	Jamaica Plain, Mass.
1631	7	McCarthy, Jno. ...Box 11	.....	Sandwich, Ont.
2379	7	McCarthy, J. P....608	Cass Ave.....	Detroit, Mich.
2372	4	McCarthy, Patrick.1575	Northland Ave.....	Lakewood, O.
1833	6	McCauley, Chas. .408	Norris St.....	Escanaba, Mich.
1682	3	McCauley, C. ....229	Mason St.....	Milwaukee, Wis.
2283	6	McCauley, J. P. ...1388	W. 25th St.....	Cleveland, O.
2121	3	McClintock, J. ....7710	Ada St.....	Chicago, Ill.
1810	1	McClinton, W. D...346	14th St.....	Buffalo, N. Y.
2129	1	McCorkell, W. H...2545	Main St.....	Buffalo, N. Y.
513	6	McCoy, Jno. ....667	Mineral St.....	Milwaukee, Wis.
2237	15	McCoy, N. J. ....71	4th St., E.....	Owen Sound, Ont.



Pen- nant	Lodge	Name	Address	City
2361	16	McDonald, A.	Box 564	Toronto, Ont.
2197	7	McDonald, Fred	292 4th Ave.	Detroit, Mich.
1616	8	McDonald, G. W.	234 N. William St.	Marine City, Mich.
1652	1	McDonald, J. A.	253 Herkimer St.	Buffalo, N. Y.
1725	7	McDonald, J. Alex.	175½ Bruce Ave.	Windsor, Ont.
1160	8	McDonald, J. H.	Box 771	Marine City, Mich.
1799	10	McDonald, Jno.	96 Green St.	Ogdensburg, N. Y.
2161	4	McDonald, J. J.	2556 E. 81st St.	Cleveland, O.
542	3	McDonald, Geo.	4857 No. Winchester Ave.	Chicago, Ill.
1999	2	McDonald, J. E.	713 Willow St.	Pt. Huron, Mich.
2367	16	McDonald, Peter	St. Patrick St.	Goderich, Ont.
1462	4	McDonald, W.	3826 John Ave.	Cleveland, O.
2046	12	McDougall, T.	876 W. 7th St.	Superior, Wis.
2145	7	McDougall, W. L.	263 Meadowbrook St.	Detroit, Mich.
315	1	McEachern, A.	553 West Ave.	Buffalo, N. Y.
1549	4	McEwen, H. W.	1506 W. 28th St.	Cleveland, O.
2016	1	McFadden, W. L.	306 Purdy St.	Buffalo, N. Y.
1530	3	McGannon, W. P.	465 W. 28th St.	Chicago, Ill.
2244	3	McGarrity, D. J.	7348 Perry Ave.	Chicago, Ill.
1557	4	McGarry, Geo.	1378 W. 64th St.	Cleveland, O.
1067	4	McGarry, Jno.	1380 West 59th St.	Cleveland, O.
712	6	McGinn, Jas.	Care Jos. McGinn, Iron Block	Milwaukee, Wis.
2228	4	McGinnis, G. W.	1902 Capitol Ave.	Indianapolis, Ind.
2355	16	McGinnis, J. J.	Box 45	Fort William, Ont.
1937	7	McGowen, Hugh	1309 Lafayette Blvd.	Detroit, Mich.
1315	12	MacGregor, W.	713 H. Ave.	Superior, Wis.
515	6	McGregor, W. F.	Lincoln Apartments, F. 1.	Windsor, Ont.
1052	7	McGuire, N.	810 Ferry Park Ave.	Detroit, Mich.
2209	15	McIntire, A. B.	581 West 13th St.	Owen Sound, Ont.
1065	7	McIntosh, J. L.	520 12th St.	Detroit, Mich.
767	7	McIntosh, M. G.	84 Prentis Ave.	Detroit, Mich.
2312	17	McIntosh, John A.		French River, Ont.
941	3	McIntire, Allen	Care M. F. Morgan, 411 Northwest- ern Bldg.	Chicago, Ill.
2205	15	McIntire, R.	657 8th St. E.	Owen Sound, Ont.
1873	6	McIsaac, Neil	410 E. Filer St.	Ludington, Mich.
2286	16	McIver, Geo.	361 Wiley St.	Port Arthur, Ont.
2358	16	McIver, John		Southampton, Ont.
2204	15	McKay, Angus	447 14th St. W.	Owen Sound, Ont.
753	7	McKay, Alex. J.	232 Gladstone Ave.	Detroit, Mich.



Pen- nant	Lodge	Name	Address	City
1854	7	McKay, Daniel	...234 Jefferson Ave.....	Detroit, Mich.
288	4	McKay, G. P.	....17880 Lake Rd.....	Lakewood, O.
2203	15	McKay, M.	.....492 13 A St. W.....	Owen Sound, Ont.
2200	15	McKay, Norman	..447 14th St. W.....	Owen Sound, Ont.
1453	3	McKay, Wm. J.	..406 Sylvester Ave.....	Detroit, Mich.
2382	1	McKenzie, Alex	..969 Niagara St.....	Buffalo, N. Y.
1857	3	McKenzie, K.	.....	Tiverton, Ont.
856	9	McKinley, Jas.	...1717 Ontario St.....	Toledo, O.
1028	7	McLachlan, A.	....56 11th St.....	Detroit, Mich.
2199	7	McLachlan, D.	....622 Rademacher Ave....	Detroit, Mich.
2096	4	McLachlan, W. H.	.....	Wyoming, Ont.
1757	1	McLaren, B. C.	...50 Greenwood Pl.....	Buffalo, N. Y.
755	7	McLarty, Jas.	....417 Avery Ave.....	Detroit, Mich.
1504	2	McLean, J. C.	....1109 St. Clair St.....	Pt. Huron, Mich.
910	7	McLean, Wm.	....1437 Westwood Ave.....	Lakewood, O.
1814	1	McLeod, Dugald	..442 Auburn Ave.....	Buffalo, N. Y.
1866	4	McLeod, D. W.	...3808 Clinton Ave.....	Cleveland, O.
2278	16	McLeod, N. J.	....93 Ontario St.....	Port Arthur, Ont.
2259	2	McMartin, Frank	..117 Smith Ave. ....	Detroit, Mich.
1761	1	McMaugh, A. A.	..130 Riverside Ave.....	Buffalo, N. Y.
771	1	McMillan, Chas.	..195 So. Elmwood Ave....	Buffalo, N. Y.
	4	McNaughton, R.	..First National Bank .....	..... Sault Ste. Marie, Mich.
1990	8	McNeill, W. H.	...R. F. D. 2.....	Marine City, Mich.
2296	1	McPherson, A. J.	...485 7th St.....	Buffalo, N. Y.
1619	3	McQueen, W. A.	...Ruthland Transit Co..	Ogdensburg, N. Y.
1561	6	McShane, D. W.	.....	New Auburn, Wis.
507	6	McSweeney, J.	...459 Maryland Ave.....	Milwaukee, Wis.
1899	7	MacAulay, Geo.	..Box 296.....	Walkerville, Ont.
2340	7	MacDonald, Alex.	..263 Meadowbrook Ave....	Detroit, Mich.
1161	7	MacDonald, N.	...277 Linwood Ave.....	Detroit, Mich.
1763	6	Mackey, Melvin	.....	Sturgeon Bay, Wis.
1415	4	MacLachlan, A. H.	1861 W. 47th St.....	Cleveland, O.
543	3	MacLean, D.	.....R. F. D. 1, Box 79..	Michigan City, Ind.
1433	7	MacLean, W. J.	....621 Wabash Ave.....	Detroit, Mich.
2309	17	MacLennan, A.	...Care Midland Queen .....	..... Sault Ste. Marie, Ont.
2174	12	MacLeod, A.	.....528 Federal Bldg.....	Chicago, Ill.
1801	3	MacMillan, John	...Care Mrs. A. R. MacLeod, Baddeck Bay, Victoria County, Nova Scotia	



NAMES AND ADDRESSES

Pen- nant	Lodge	Name	Address	City
2167	3	Madden, John H.	Care Prindiville & Co., Insurance Ex. Bldg.....	Chicago, Ill.
113	2	Madden, M. J.	1003 Kearney St.....	Pt. Huron, Mich.
2308	17	Madden, W. J.	Church St.....	Penetanguishene, Ont.
1194	7	Maddock, J. B.	378 Commonwealth Ave...	Detroit, Mich.
1204	7	Maddock, J. C.	378 Commonwealth Ave...	Detroit, Mich.
891	1	Madigan, Jos. A.	Care Brown & Co.....	Buffalo, N. Y.
1073	7	Mahon, A. J.	443 Military Ave.....	Detroit, Mich.
1351	4	Mahon, W. M.	Rex Hotel .....	Eveleth, Minn.
576	2	Maitland, Henry	1026 Wall St.....	Pt. Huron, Mich.
1082	7	Malette, P. A.	369 Hendricks St.....	Detroit, Mich.
266	4	Mallory, D. H.	Nat'l Bank of Elyria.....	Elyria, O.
176	4	Mallory, G. B.	Pickands, Mather & Co...	Cleveland, O.
1926	1	Mallory, R. A.	527 Fargo Ave.....	Buffalo, N. Y.
1973	4	Malott, J. W.	Box 25.....	Ruthven, Ont.
1748	10	Maltby, Wm. G.	41 Mansion Ave.....	Ogdensburg, N. Y.
365	3	Mansfield, I. B.	529 Federal Bldg.....	Chicago, Ill.
994	2	Manuel, F. W.	2707 Military St.....	Pt. Huron, Mich.
732	7	Mara, Jas.	465 Military Ave.....	Detroit, Mich.
2359	16	Marcellias, W. C.	118 Peter St.....	Port Arthur, Ont.
2225	8	Marcero, A. W.	137 Backus Ave....	Marine City, Mich.
1791	8	Marcero, Chas.	.....	Marine City, Mich.
2267	16	Marin, O. P.	383 Van Norman St...	Port Arthur, Ont.
1402	8	Markle, S. J.	4 Westminster Ave.....	Detroit, Mich.
1941	6	Marsh, S. O.	.....	Perrysburg, Wood Co., O.
1047	1	Martin, Edw.	308 Purdy St.....	Buffalo, N. Y.
2391	4	Martin, Peter J.	5704 Longfellow Ave.....	Cleveland, O.
1704	4	Mason, Chas. D.	1113 Rockefeller Bldg....	Cleveland, O.
1790	1	Massey, Chester	1927 Hughitt Ave.....	Superior, Wis.
1685	4	Massey, S. B.	1501 Clarence Ave.....	Lakewood, O.
2099	3	Matson, S. W.	1247 Monticello Ave.....	Chicago, Ill.
1226	8	Mattison, E. F.	Care D. & W. Ferry Co...	Detroit, Mich.
477	6	Maxon, F. C.	83 31st St.....	Milwaukee, Wis.
1276	8	Maxwell, Wm.	.....	Marine City, Mich.
191	2	May, A. C.	1912 7th St.....	Pt. Huron, Mich.
1580	4	Meecker, S. E.	1454 Orchard Grove Ave..	Lakewood, O.
988	4	Megervey, Wm.	1424 W. 75th St.....	Cleveland, O.
613	9	Meikleham, Thos.	641 Fernwood Ave.....	Toledo, O.
2124	6	Mellan, Gunerius	406 Scott St.....	Milwaukee, Wis.
1919	14	Meno, F. L.	402 Thornapple St.....	St. Clair, Mich.
1582	7	Merckel, C. G.	122 Stanton Ave.....	Detroit, Mich.



Pen- nant	Lodge	Name	Address	City
1698	3	Meyer, Gust	.....3826 N. Whipple St.....	Chicago, Ill.
1978	9	Millard, R. B.	....Great Lakes Towing Co.....	Toledo, O.
1836	2	Millard, W. L.	....502 16th St.....	Pt. Huron, Mich.
1175	7	Millen, P. L.	.....	Romeo, Mich.
671	7	Millen, Wm. F.	.....	Romeo, Mich.
675	4	Miller, C. D.	....213 Lincoln Ave...	N. Tonawanda, N. Y.
1695	1	Miller, Chas. F.	....Dunham Towing & Wrecking Co. .....	South Chicago, Ill.
2112	6	Miller, Christian	...348 Madison St.....	Milwaukee, Wis.
2376	12	Miller, Thos.	....1324 Jefferson St.....	Duluth, Minn.
1587	4	Milliken, Wm.	....1956 W. 47th St.....	Cleveland, O.
1562	1	Milne, J.	....234 Grant St.....	Buffalo, N. Y.
450	3	Minsky, J. P.	....2464 Orchard St.....	Chicago, Ill.
1170	3	Minter, Thos. B.	..1235 Otis St. ....	Chicago, Ill.
2330	15	Misner, Robt.	....232 Brown St.....	Steelton, Out.
798	4	Mitchell, Alfred	...1504 Rockefeller Bldg....	Cleveland, O.
1781	11	Mitchell, Alvin	.....	Algonac, Mich.
1904	8	Mitchell, D. R.	....Box 629.....	Marine City, Mich.
2392	7	Mitchell Harry	...95 Riopelle St.....	River Rouge, Mich.
302	4	Mitchell, Jno.	....908 Rockefeller Bldg....	Cleveland, O.
2198	4	Moes, W. H.	....3828 Leading Ave.....	Cleveland, O.
2158	2	Montgomery, G. A.	1201 Howard St.....	Port Huron, Mich.
1817	1	Montgomery, J. A.	81 Greenfield St.....	Buffalo, N. Y.
1155	1	Montgomery, J. W.	79 Greenfield St.....	Buffalo, N. Y.
656	2	Montgomery, W. L.	.....	Blaine, Mich.
1032	6	Moody, C. E.	....92 33rd St.....	Milwaukee, Wis.
959	4	Moody, W. H.	.....	Vermilion, O.
1675	4	Mooney, Wm.	....4908 Franklin Ave.....	Cleveland, O.
412	3	Moore, C. K.	....Care J. Massey, 927 Hughitt Ave... .....	Superior, Wis.
1572	4	Moore, Frank	....2139 West 103rd St.....	Cleveland, O.
1821	4	Moore, Geo. W.	...1406 W. 54th St.....	Cleveland, O.
254	3	Moore, H. R.	....6919 Wayne Ave., Rogers Park .....	Chicago, Ill.
992	3	Moore, J. F.	....743 Oakley Blvd.....	Chicago, Ill.
1778	11	Moore, S. D.	.....	Algonac, Mich.
1622	4	Moore, S. S.	....6903 Wakefield Ave.....	Cleveland, O.
1702	4	Moore, Wm. E.	...1848 W. 54th St.....	Cleveland, O.
355	4	Morgan, J. W.	....Box 503 .....	Geneva, O.
1724	3	Morgan, M. F.	....2115 Summerdale Ave.....	Chicago, Ill.
1995	1	Morin, Thos. F.	...314 Fargo Ave.....	Buffalo, N. Y.



NAMES AND ADDRESSES

Pen- nant	Lodge	Name	Address	City
2144	7	Morrison, A. A. ...	207 Western Reserve Bldg.	Cleveland, O.
2268	16	Morrison, Angus ..	50 Jean St.....	Port Arthur, Ont.
2010	3	Morrison, Dougal..	401 Rush St. ....	Chicago, Ill.
2118	11	Morrison, E. R.....	368 Fargo Ave.....	Buffalo, N. Y.
1694	7	Morrison, J. N.....	32 Calvert Ave.....	Detroit, Mich.
2199	4	Morrison, Wm. F...1642	Lincoln Ave.....	Lakewood, O.
1964	14	Morse, A. R. ....	107 S. 9th St.....	St. Clair, Mich.
1713	4	Morton, Edw. R...1671	E. 85th St.....	Cleveland, O.
822	2	Mosier, R. H. ....	624 S. Main St.....	Cheboygan, Mich.
339	4	Mulholland, M. ....	Care M. A. Bradley, 706	Marion
			Blk. ....	Cleveland, O.
2370	12	Munro, Wm. J., Jr.	2058 Carroll Ave.....	St. Paul, Minn.
1538	4	Murdock, Jno. ....	613 5th Ave. E.....	Ashland, Wis.
2294	1	Murphy, Charles...228	Georgia St.....	Buffalo, N. Y.
2306	17	Murphy, E. W. ....		Midland, Ont.
108	1	Murphy, Henry ...60	Verplank St.....	Buffalo, N. Y.
1736	10	Murphy, H. A. ...119	Caroline St.....	Ogdensburg, N. Y.
2039	12	Murphy, Oswald ..205	St. Clair St.....	Ashland, Wis.
129	1	Murphy, S. M. ....	826 Williamson Bldg.....	Cleveland, O.
2164	14	Mussman, A. ....	901 South 7th St.....	St. Clair, Mich.
2284	2	Myers, Geo. F. ...379	Falconer St....	N. Tonawanda, N. Y.
1962	1	Myers, R. D. ....	35 Delaware St.....	Tonawanda, N. Y.
2324	17	Napier, Jos. ....	Main St. ....	Penetanguishene, Ont.
1109	2	Neal, Jas. S. ....		Marine City, Mich.
1209	2	Neal, Wm. D. ....	Box 21 .....	Courtwright, Ont.
1740	10	Nelson, A. C. ....	Hinkley-Cornwell Co. ....	
				Alexander Bay, N. Y.
1737	10	Nelson, C. O. ....	53 Rensselaer Ave...Ogdensburg,	N. Y.
2132	12	Nelson, F. E. ....		Detour, Mich.
1804	4	Nelson, Olaf ....	3722 W. 36th St.....	Cleveland, O.
2092	4	Nelson, S. ....	5819 Bridge Ave. ....	Cleveland, O.
1829	7	Nesbitt, Wm. K. ..	Care Great Lakes Eng. Works,	
			Steamer Colonel.	River Rouge, Mich.
2351	12	Ness, Martin O...3203	W. Vernon St.....	Duluth, Minn.
2394	6	Neubauer, W. E. ..904	Bartlett St.....	Milwaukee, Wis.
2134	4	Neville, R. J. ....	2080 West 89th St.....	Cleveland, O.
2326	17	Nicholls, Bruce ..	5th St. ....	Midland, Ont.
464	7	Nicholson, D. ....	Foot Woodward Ave., D. B. I. & W.	
			Ferry Co.....	Detroit, Mich.
1865	4	Noble, Jno. ....	1426 Northland, Ave.....	Lakewood, O.
2208	15	Nolan, Dan ....	835 11th St....	West Owen Sound, Ont.



Pen- nant	Lodge	Name	Address	City
1395	4	Nordahl, Arnold...	2908 Carroll Ave.....	Cleveland, O.
2343	6	Norteman, L. W...	1509 Michigan Ave....	Manitowoc, Wis.
1623	7	Norvell, Walker ..	288 Pingree Ave.....	Detroit, Mich.
2272	16	Nuttall, A. S. ....	181 Arthur St.....	Port Arthur, Ont.
2271	16	Nuttall, R. E. ....	212 St. James St....	Port Arthur, Ont.
2270	16	Nuttall, Wm. ....	11 Nugent St.....	Port Arthur, Ont.
1818	6	Oakley, Jas. ....	425 N. 8th St.....	Manitowoc, Wis.
350	14	O'Connor, R. ....	525 N. Second St.....	St. Clair, Mich.
1169	1	O'Day, Simon ....	729 Prospect Ave.....	Buffalo, N. Y.
1888	7	Ogden, Benj. F....	817 Trumbull Ave.....	Detroit, Mich.
1753	1	O'Hagan, Hugh ...	220 Grove St.....	Tonawanda, N. Y.
1726	1	O'Hagan, Jno. ....	144 Grove St.....	Tonawanda, N. Y.
2350	1	Oliver, Percy ....	379 Elk St.....	Buffalo, N. Y.
1444	3	Olsen, Jno. K. ....	Care Lighthouse Inspector, 216 Fed- eral Bldg. ....	Milwaukee, Wis.
358	4	Olsen, Olaf ....	1375 E. 95th St.....	Cleveland, O.
1720	4	Olsen, Oscar ....	1699 Lee Rd.....	Cleveland Hts., O.
1148	6	Olson, Sam, No. 2.	827 N. 9th St.....	Manitowoc, Wis.
1860	6	Olson, Sam ....	469 25th Ave.....	Milwaukee, Wis.
2256	7	Oman, Chas. H....	U. S. S. Crocus Is. Light House In- spector .....	Buffalo, N. Y.
1179	1	O'Neil, Patrick ...	60 Morgan St.....	Buffalo, N. Y.
2239	15	Olstrom, G. C. ...	616 7th St. A. East...	Owen Sound, Ont.
1482	4	Packer, W. H. ....	433 W. 1st Ave. ....	Columbus, O.
2053	6	Palm, Edw. ....	1240 Island Ave.....	Milwaukee, Wis.
1896	7	Palmer, A. J. ....	541 Townsend Ave.....	Detroit, Mich.
1981	3	Pardee, J. F. ....	256 W. 3rd St.....	Erie, Pa.
1233	7	Parsons, D. R. ....	1083 E. Grand Blvd.....	Detroit, Mich.
1182	7	Parsons, H. H. ....	262 Collingwood Ave....	Detroit, Mich.
1201	7	Parsons, Jos. ....	2141 John R. Ave.....	Detroit, Mich.
2279	7	Parsons, Jos. W. ..	57 Belmont Ave.....	Detroit, Mich.
1185	4	Parsson, F. ....	2065 W. 45th St.....	Cleveland, O.
2302	10	Patenaude, A. ....	754 Papineau Ave.....	Montreal, Que.
1788	1	Patterson, R. C. ..	63 Baynes St.....	Buffalo, N. Y.
1269	3	Patterson, Wm....	10455 Ewing Ave.....	S. Chicago, Ill.
2088	7	Pauls, F. H. ....	315 Cherry St.....	Detroit, Mich.
1826	7	Pearson, Jno. J....	446 Bewick St. ....	Detroit, Mich.
2333	15	Pearson, J. P. ....	.....	Port McNicoll, Ont.
1792	7	Peltier, R. D. ....	R. F. D. 4.....	Mt. Clemens, Mich.
1807	4	Perew, F. D. ....	River St. ....	Willoughby, O.



Pen- nant	Lodge	Name	Address	City
381	1	Perew, John	.317 Chamber of Commerce	Buffalo, N. Y.
2165	11	Perkins, H. L.	....117 North Line	....Wyandotte, Mich.
2147	7	Perrault, Albert	..58 Cicotte St.	.....River Rouge, Mich.
2053	6	Peterson, F. J.	...Care Rogers Coal Co.	....Toronto, Ont.
695	4	Peterson, C. A.	..112 Reese St.	.....Sandusky, O.
624	4	Peterson, Henry	..Beulah Ave.	.....Pueblo, Colo.
2216	3	Peterson, Martin	..1108 N. Mozart St.	.....Chicago, Ill.
1392	1	Peterson, M. S.	...94 Triangle St.	.....Buffalo, N. Y.
1329	4	Peterson, P. A.	...10614 Garfield Ave.	.....Cleveland, O.
1607	3	Peterson, T. J.	....18 Lake St.	.....Manistee, Mich.
2253	6	Petroskey, W. J.	..1010 S. Main St.	.....Manitowoc, Wis.
2188	1	Phillips, J. J.	....87 Kohler St.	.....Tonawanda, N. Y.
1524	7	Pickell, E. S.	....Str. City of Erie	.....Cleveland, O.
1667	12	Pierce, W. L.	....4021 W. 5th Ave.	.....Duluth, Minn.
2377	4	Pilzer, W. J.	....102 McEwen St.	.....Sandusky, O.
2288	12	Pinney, Jesse	....123 S. Michigan Ave.	....Duluth, Minn.
2133	8	Piotter, Chas. L.	..225 2nd St.	.....Marine City, Mich.
2232	4	Pitts, Oliver	....1249 Andrews Ave.	.....Lakewood, O.
1541	7	Pocock, H. A.	....521 Lansing Ave.	.....Detroit, Mich.
2281	9	Pocock, Robert J.	..3126 Glenwood Ave.	.....Toledo, O.
1039	4	Post, Jos. W.	.....	Sandusky, O.
1858	3	Post, Samuel	....1536 Congress St.	.....Chicago, Ill.
1738	10	Powers, Jno.	....33 Buck St.	.....Canton, N. Y.
140	2	Powrie, P. F.	....1131 Howard St.	.....Pt. Huron, Mich.
2222	12	Pratt, Frank C.	.....	Ford City, Ont.
1344	6	Preston, J. R.	....785 So. 12th St.	.....Newark, N. J.
229	14	Pringle, Jno. C.	..561 Riverside Ave.	.....St. Clair, Mich.
1528	4	Pringle, R. C.	....1516 Arthur Ave.	.....Lakewood, O.
2138	4	Pringle, W. R.	..1516 Arthur Ave.	.....Lakewood, O.
2398	6	Quackenbush, E.	..1260½ Island Ave.	.....Milwaukee, Wis.
1256	7	Quinlan, Wm.	....742 14th Ave.	.....Detroit, Mich.
558	4	Rae, Frank C.	....Avon Park	.....DeSoto Co., Fla.
177	4	Rae, F. H.	.....	Vermilion, O.
1284	7	Rains, E. T.	....Buffalo Union Furnace Co.	.....Buffalo, N. Y.
1043	3	Rand, L. A.	....511 Park Ave.	.....Wilmette, Ill.
1522	4	Randall, A. E.	....17 Pennsylvania Ave.	.....Ashtabula, O.
1590	2	Randall, F.	....1011 Lapeer Ave.	....Port Huron, Mich.
2289	12	Rankin, A. E.	....Box 435	.....Two Harbors, Minn.
1435	7	Rattray, C.	....540 Holden Ave.	.....Detroit, Mich.
2261	4	Rattray, E. G.	....1078 Addison Rd.	.....Cleveland, O.



Pen- nant	Lodge	Name	Address	City
1848	8	Recor, Edgar	.....	Marine City, Mich.
1434	7	Recor, Geo. F.	....665 Sheridan Ave.....	Detroit, Mich.
2389	14	Recor, Joseph F.	.....	Wallaceburg, Ont.
1842	8	Recor, Robt. J.	...658 Baldwin Ave.....	Detroit, Mich.
1635	6	Redner, Elmer	...Care Goodrich Line Co. ....	..... Muskegon, Mich.
1105	14	Reece, G. O.	.....1008 Clinton Ave.....	St. Clair, Mich.
1254	2	Reed, Wm. A.	....412 Main St. ....	Conneaut, O.
443	3	Regan, Jno.	.....848 E. 64th Pl.....	Chicago, Ill.
1307	4	Reid, F. H.	.....1698 W. 69th St.....	Cleveland, O.
1171	3	Reid, Jr., Robt.	...1708 Melrose Ave.....	Chicago, Ill.
1711	4	Reid, Wm. C.	....2049 W. 95th St.....	Cleveland, O.
2347	7	Reilly, Wm. S.	....819½ Meldrum St.....	Detroit, Mich.
708	4	Rice, Frank	.....4208 John Ave. N. W....	Cleveland, O.
782	8	Rice, Philip	.....Box 242 .....	Blenheim, Ont.
1936	6	Richardson, Frank.	501 Ellen St.....	Milwaukee, Wis.
133	1	Richardson, H.	.....	East Aurora, N. Y.
2269	16	Richmond, U. G.	...98 Regent St. ....	Port Arthur, Ont.
2239	4	Rinn, Chas.	.....3803 Carnegie Ave.....	Cleveland, O.
1950	14	Rinn, J. B.	.....509 2nd St.....	St. Clair, Mich.
2006	1	Rinn, Wm.	.....1450 Cullon Ave.....	Chicago, Ill.
2258	3	Risto, E.	.....34 West 26th St.....	Holland, Mich.
1843	4	Ritchie, W. S.	....Care Brown & Co.....	Buffalo, N. Y.
287	3	Roach, P. C.	.....842 Wells St., Care Scully Bros., .....	Chicago, Ill.
279	1	Robarge, G. E.	.....	Caruthersville, Mo.
2385	12	Roberts, B. J.	....Care Clow & Nicholson..	Duluth, Minn.
902	3	Robertson, G.	....515 LaFayette St...	Grand Rapids, Mich.
2303	10	Robineau, Alban	..106-B Marquette St. ....	Montreal, Que.
1283	4	Robinson, A. R.	..1440 Woodward Ave.....	Lakewood, O.
2341	4	Robinson, F. A.	...2110 W. 93rd St.....	Cleveland, O.
1710	4	Robinson, J. W.	..R. F. D. 1.....	Sandusky, O.
1377	7	Robinson, Salem	..622 Lathrop Ave. ....	Detroit, Mich.
49	1	Robinson, Walter.	..326 15th St.....	Buffalo, N. Y.
2177	6	Roddy, Timothy	..506 N. State St.....	Chicago, Ill.
2120	11	Roe, Stephen J.	.....	Algonac, Mich.
1756	1	Rolseng, Iver	....937 Michigan Ave. ....	Buffalo, N. Y.
56	3	Root, F. D.	.....	Sault Ste. Marie, Mich.
1947	9	Rose, Otto	.....935 Palmwood Ave.....	Toledo, O.
2065	6	Rosie, Wm.	.....619 Lafayette St....	Grand Haven, Mich.
1103	6	Ross, C. D.	.....24 Cleveburn Pl. ....	Buffalo, N. Y.



NAMES AND ADDRESSES

Pen- nant	Lodge	Name	Address	City
2230	4	Rourke, John	2076 W. 26th St.	Cleveland, O.
821	1	Rowan, Murdock	695 Main St.	Conneaut Harbor, O.
2143	10	Russell, F. P.	17 New York Ave.	Ogdensburg, N. Y.
1741	10	Russell, Henry	117 Morris St.	Ogdensburg, N. Y.
2339	10	Russell, Wm. R.	83 Jersey Ave.	Ogdensburg, N. Y.
2229	4	Rydholm, C. A.	920 Lee St.	Marquette, Mich.
843	9	Sage, Geo. V.	655 S. Main St.	Toledo, O.
1905	6	Sanders, H. L.	649 Frederick Ave.	Milwaukee, Wis.
546	4	Sanders, Jos.	5208 Tillman Ave.	Cleveland, O.
1088	4	Sanders, T. H.	1612 Rockefeller Bldg.	Cleveland, O.
223	4	Saph, C. M.	715 North 8th St.	Sheboygan, Wis.
1472	4	Saph, J. P.	128 A St.	Lorain, O.
1897	7	Sauer, Geo.	34 Farrand Ave. E., Station C	Detroit, Mich.
1413	1	Saunders, J. M.	234 Berlin St.	Buffalo, N. Y.
1732	2	Sawyer, E. S.		Almont, Mich.
2373	4	Scheible, H. J.		Put-in-Bay, O.
496	6	Schwerman, Fred.	R. R. 3, Box 50 Station D	Milwaukee, Wis.
2356	16	Scott, J. A.		Victoria Harbor, Ont.
509	6	Scott, W. B.	488½ Walker St.	Milwaukee, Wis.
1313	1	Secord, C. D.	39 Howland Pl.	Buffalo, N. Y.
2175	12	Seeley, H. D.	1705 Ogden Ave.	Superior, Wis.
2156	3	Seiderland, F. A.	Barge Office	Chicago, Ill.
2383	1	Sellon, Harry D.	Care Connelly Bros.	Buffalo, N. Y.
751	7	Sennon Wm.	197 W. Seneca St.	Oswego, N. Y.
1959	1	Sexsmith, Samuel	1391 W. 64th St.	Cleveland, O.
1648	1	Shaw, Edw. L.	71 Hoyt St.	Buffalo, N. Y.
799	8	Shaw, Geo. A.		Marine City, Mich.
55	10	Shay, W. S.	76 Patterson St.	Ogdensburg, N. Y.
1638	3	Shea, Jos. A.	208 S. LaSalle St., Care Armour Grain Co.	Chicago, Ill.
566	1	Shepard, A. M.	Bedford Hotel	Goderich, Ont.
54	4	Sherwood, D. N.	15501 Hilliard Ave.	Lakewood, O.
2190	2	Sills, Arthur G.	2841 Stone St.	Port Huron, Mich.
1784	3	Simons, Jno.	307 East N. Water St.	Chicago, Ill.
1550	4	Simmons, T. G.	15709 Lake Ave.	Lakewood, O.
1466	7	Simpson, F. J.	911 Baldwin Ave.	Detroit, Mich.
1362	3	Sinclair, C. H.	2037 Military St.	Pt. Huron, Mich.
377	2	Sinclair, D. M.	2037 Military St.	Pt. Huron, Mich.



Pen- nant	Lodge	Name	Address	City
1104	2	Sinclair, J. H. ....	The Thomas Furniture Co. ....	Pontiac, Mich.
632	7	Skiffington, J. A...	364 Seyburn Ave.....	Detroit, Mich.
850	4	Slackford, W. G. ...	309 Campbell St.....	Sandusky, O.
2390	4	Slade, J. J. ....	72 Station St. ....	Ashtabula, O.
2027	12	Slater, F. R. ....	6209 Ogden Ave.....	Superior, Wis.
2137	9	Slavin, James F...	623 Humbolt St.....	Toledo, O.
2245	7	Sloan, Bernard ...	451 Franklin St.....	Detroit, Mich.
1952	14	Smith, Alex. C. ...	408 Jay St.....	St. Clair, Mich.
1111	6	Small, E. S. ....	218 East 9th St...	Traverse City, Mich.
1013	7	Smith, A. C. ....	R. F. D. 2.....	Amherstburg, Ont.
2357	16	Smith, E. R. ....	121 Archibald St....	Fort William, Ont.
1745	10	Smith, Jno. J. ....	45 Hamilton St.....	Ogdensburg, N. Y.
1480	4	Smith, P. H. ....	Stop 7, Euclid Ave.....	Euclid, O.
1780	11	Smith, Sidney H.....		Algonac, Mich.
1476	6	Sniffin, B. M. ....	503 N. 5th St.....	Manitowoc, Wis.
1249	6	Soleau, O. J. ....	Milwaukee Tug Boat Line.....	Milwaukee, Wis.
2353	6	Solway, Severt .....		Sturgeon Bay, Wis.
2384	1	Spaulding, H. W..	191 Adams St. ....	Tonawanda, N. Y.
231	4	Spear, E. P. ....	1629 E. 118th St.....	Cleveland, O.
1246	9	Stalker, A. W. ....	565 Church St.....	E. Toledo, O.
348	9	Stalker, Duncan ..	522 Woodville St.....	E. Toledo, O.
2325	17	Stalker, Malcom .	Church St.....	Penetanguishene, Ont.
1692	4	Stanley, Edw. ....	4503 Clinton Ave.....	Cleveland, O.
479	6	Starke, Fred C. ..	520 Grand Ave. ....	Milwaukee, Wis.
2187	1	Starkey, M. J. ....	346 Fletcher St. ....	Tonawanda, N. Y.
921	4	Steible, Jno. ....	130 Second St.....	Sandusky, O.
2386	12	Stemman, John J..	4311 Apple Ave., S. W....	Cleveland, O.
1183	7	Stevens, E. P. ....	177 Jos. Campau Ave....	Detroit, Mich.
1114	1	Stevenson, G. C...	1113 West Ave.....	Buffalo, N. Y.
418	1.	Stevenson, Hugh ..	R 1—63—A.....	Elma Center, N. Y.
1654	1	Stevenson, Thos...	74 Royal Ave.....	Buffalo, N. Y.
1677	2	Stevenson, Wm. ..	2121 7th St.....	Pt. Huron, Mich.
1412	1	Stevenson, W. H...	144 Riverside Ave.....	Buffalo, N. Y.
586	7	Stewart, A. E. ....	93 Garfield Ave.....	Detroit, Mich.
2070	11	Stewart, H. W. ....		Algonac, Mich.
486	6	Stewart, Jno. ....	Box 234.....	St. Joseph, Mich.
1770	11	Stewart, J. P. ....		Algonac, Mich.
1769	11	Stewart, Millard .....		Algonac, Mich.



Pen- nant	Lodge	Name	Address	City
1489	4	Stewart, W. G. ...	Care Pickands, Mather & Co.	Cleveland, O.
1958	10	Stitt, Geo. P. ....	307 North Brodir St. ....	Fort William, Ont.
1957	10	Stitt, Jas. M. ....	Point Du Chene, N. Brunswick	
1743	10	Stitt, W. J. ....	Point Duchene, N. B.	
2189	2	Stockdale, R. N....	714 Minnie St.....	Port Huron, Mich.
636	7	Stoddard, Lewis ..	216 Federal Bldg.....	Milwaukee, Wis.
184	4	Stone, H. W. ....	58 Noble Rd.....	E. Cleveland, O.
760	4	Stone, L. W. ....		Vermilion, O.
1712	4	Story, W. J. ....	30 Kingsville Ave.....	Ashtabula, O.
262	4	Stough, L. ....	1711 W. 31st Pl.....	Cleveland, O.
1574	3	Strahan, Louis .....		Wells, Mich.
1855	7	Stuart, Thos. J....	666 Attwater St. E.....	Detroit, Mich.
2364	6	Stufflebeam, G. E..	322 Kalamazoo St. ....	So. Haven, Mich.
1872	6	Stufflebeam, Jno...	204 N. Lavinia St....	Ludington, Mich.
2131	4	Sturtevant, F. C...	2277 East 87th St.....	Cleveland, O.
371	6	Sullivan, D. C. ....	625 Prospect Ave.....	Milwaukee, Wis.
2043	12	Sullivan, D. T. ....	331 N. 60th Ave., W.....	Duluth, Minn.
1676	9	Sullivan, N. M. ...	3412 Glenwood Ave. ....	Toledo, O.
2079	7	Sullivan, Wm. E...	107 Elmhurst Ave. ....	Detroit, Mich.
2127	7	Sullivan, T. D. ....	702 W. Jennie St.....	Bay City, Mich.
1303	4	Sutherland, W. T..	1274 Crook St., Care J. G. Pierner..	Green Bay, Wis.
363	7	Swain, Martin ....	471 Wabash Ave., Care R. M. North- wood .....	Detroit, Mich.
2023	12	Swenson, Albert ..	1001 Torrey Bldg.....	Duluth, Minn.
1709	4	Talbot, A. J. ....	906 E. Erie Ave. ....	Lorain, O.
1410	7	Talbot, Geo. E. ....	2635 2nd Ave....	Highland Park, Mich.
1680	3	Taylor, Edw. ....	4351 W. Monroe St.....	Chicago, Ill.
1157	8	Taylor, James ....	157 Main St. ....	Marine City, Mich.
2273	16	Taylor, W. J. ....	366 Dufferin St.....	Port Arthur, Ont.
1096	4	Tear, F. S. ....	The Blvd.....	Painesville, O.
79	3	Tebo, Geo. ....	3838 Sheffield Ave.....	Chicago, Ill.
2068	3	Thayer, C. R. ....	1337 E. 71st Pl.....	Chicago, Ill.
2163	2	Thody, Fred W. ..	2004 7th St.....	Port Huron, Mich.
422	4	Thompson, J. C...	4202 Bailey Ave., S. W...	Cleveland, O.
1795	4	Thompson, M. S...	144 Erie St. ....	Painesville, O.
1050	1	Thompson, Peter..	104 Russell Ave.....	Buffalo, N. Y.
1500	4	Thompson, Robt...	2325 E. 100th St.....	Cleveland, O.
1591	2	Thompson, W. F...	1208 E. 5th St.....	Duluth, Minn.



Pen- nant	Lodge	Name	Address	City
657	7	Thorburn, Jno.	Care W. A. Meddaugh..	Westhope, N. D.
61	7	Thorne, Wm.	15 Willis Ave.	Detroit, Mich.
69	1	Thorpe, E. F.	12217 Detroit Ave.	Lakewood, O.
2123	6	Thorpe, John	688 34th St.	Milwaukee, Wis.
1943	6	Thorsen, Louis	601 Edison St.	Milwaukee, Wis.
560	2	Tharp, W. H.	305 N. Henry St., Sta. A.	West Bay City, Mich.
1979	4	Thrasher, C. R.	1408 West 55th St.	Cleveland, O.
2176	4	Tilden, L. S.	7049 Superior, Suite 12	Cleveland, O.
2338	6	Tilley, R. G.	552½ Linus St.	Milwaukee, Wis.
1469	3	Tisdale, Geo. B.	Box 116	Douglas, Mich.
2344	6	Tobin, Gordon	701 3rd Ave. W.	Ashland, Wis.
719	9	Tomlin, Wm. J.		Marine City, Mich.
2387	3	Topic, Peter	634 Christiana Ave.	Chicago, Ill.
167	4	Tower, C. B.	4102 Clinton Ave.	Cleveland, O.
1051	6	Tower, Jno.	Milwaukee Tug Boat Line	Milwaukee, Wis.
2098	11	Townsend, C. A.		Algonac, Mich.
1991	10	Travis, Fred	King St.	Ogdensburg, N. Y.
1706	3	Trodahl, H. H.		Dagget, Mich.
206	7	Trottier, G. N.	302 Moffat Bldg.	Detroit, Mich.
2093	4	Tufverson, N. P.	214 4th St.	Elyria, O.
1055	4	Tulian, G. D.	1247 East 24th St.	Cleveland, O.
1942	6	Tulledge, Bernard		Frankfort, Mich.
2081	3	Upham, Lucian		Saugatuck, Mich.
1902	8	Utley, R. Z.	307 Elizabeth St.	Marine City, Mich.
2135	4	Van Buskirk, John	564 Harbor St.	Conneaut, O.
2263	6	Van Dyke, W. H.	Care Pere Marquette Line Steamers, Pere Marquette 7.	Milwaukee, Wis.
1371	8	Van Gorder, C.		Marine City, Mich.
2050	1	Van Natta, C. F.	399 Miller St.	N. Tonawanda, N. Y.
1501	4	Van Slet, Abram.	2115 W. 96th St., Wm. Hobson, Trustee	Cleveland, O.
2067	3	Van Velzen, H.	1708 North Keystone Ave.	Chicago, Ill.
1956	3	Voight, A. C.	1957 Balmoral Ave.	Chicago, Ill.
1369	1	Vrooman, G. H.	Union Towing & Wrecking Co.	Duluth, Minn.
2160	4	Wade, F. J.	1310 West 106th St.	Cleveland, O.
1001	4	Walder, R. J.	1421 W. 65th St.	Cleveland, O.
844	9	Walker, N. B.	952 Clark St.	E. Toledo, O.



NAMES AND ADDRESSES

Pen- nant	Lodge	Name	Address	City
294	4	Wallace, C. H.	....Care Pittsburgh Coal Co., Old Colony Bldg. ....	Chicago, Ill.
1933	6	Walle, Martin	....857 27th St.....	Milwaukee, Wis.
1621	4	Walper, Henry	...24 Exchange St.....	Vermilion, O.
980	10	Walsh, Jas. A.	....97 Morris St.....	Ogdensburg, N. Y.
651	7	Waltman, Jos.	....597 Vinewood Ave.....	Detroit, Mich.
1124	6	Wanvig, John D.	..404 Webster Ave.....	Milwaukee, Wis.
965	4	Ward, Jno.	.....1301 New England Bldg...	Cleveland, O.
2191	2	Ward, Peter	.....27 Taylor St.....	Pt. Huron, Mich.
2192	11	Warner, C. W.	.....	Algonac, Mich.
1955	9	Warner, Raymond	..409 3rd St.....	Toledo, O.
1514	11	Warner, W. B.	...Box 223 .....	Algonac, Mich.
1914	11	Warner, W. E.	....Box 13 .....	Algonac, Mich.
2095	2	Warwick, E. W.	..2003 7th St.....	Pt. Huron, Mich.
1118	1	Warwick, Henry	...Holland Beach .....	Port Huron, Mich.
1669	1	Watson, C. W.	....36 Ada Pl.....	Buffalo, N. Y.
336	7	Watts, Jas. B.	....108 Jay St.....	Detroit, Mich.
1722	3	Weaver, Geo. W.	...Box 374 .....	Charlevoix, Mich.
2001	4	Weaver, Jas. T.	..55 Gelston St.....	Buffalo, N. Y.
1548	7	Webster, C. T.	....1938 Jefferson Ave.....	Detroit, Mich.
2130	8	Wellhousen, H. C.	..338 Woodworth St...	Marine City, Mich.
305	4	Weeks, J. L.	.....1449 Robinwood Ave.....	Lakewood, O.
932	3	Weimar, F. T.	...7424 N. Paulina St., Rogers Park .....	Chicago, Ill.
1649	1	Weinheimer, E. J.	.....	Lake View, N. Y.
1312	1	Weinheimer, F. L.	..452 Prospect Ave.....	Buffalo, N. Y.
1647	1	Weinheimer, E. W.	..452 Prospect Ave.....	Buffalo, N. Y.
1822	4	Weitzman, C. A.	...Box 140 .....	Huron, O.
2162	4	Wendorf, H.	.....1424 West 75th St.....	Cleveland, O.
1132	7	West, B. E.	.....327 St. Clair Ave.....	Detroit, Mich.
1586	14	West, F. A.	.....540 N. 3rd St.....	St. Clair, Mich.
1385	1	White, A. E.	.....	Washington, Mich.
2073	1	Wiebe, Fred	.....11 Gelston St.....	Buffalo, N. Y.
2011	1	Wiener, Fred E.	...198 Shumway St.....	Buffalo, N. Y.
1045	1	Wilkins, W. W.	..2321 Myrtle St.....	Erie, Pa.
1597	7	Wilkinson, C.	....865 Congress St. East....	Detroit, Mich.
1151	7	Wilkinson, Fred	..411 Hellen Ave.....	Detroit, Mich.
1762	1	Wilkinson, R. B.	..76 E. Oakwood Pl.....	Buffalo, N. Y.
1639	3	Willet, C. W.	....129 Main St.....	Vandalia, Ill.
1491	4	Williams, A. M.	....1466 Orchard Grove Ave..	Lakewood, O.
410	3	Williams, David	..4321 Jackson Blvd.....	Chicago, Ill.



Pen- nant	Lodge	Name	Address	City
1044	6	Williams, Edw.	7507 Lawn Ave.	Cleveland, O.
2349	1	Williams, J. E.	423 Jefferson Ave.	Bay City, Mich.
352	7	Williams, W. H.	800 Trumbull Ave.	Detroit, Mich.
2128	1	Williams, W. W.	297 Mt. Vernon Ave.	Detroit, Mich.
1837	8	Williamson, P. L.	Pearl St.	Marine City, Mich.
1880	7	Williscroft, J. E.	Box 221	Mundare, Alberta
1058	4	Willoughby, W. J.	167 Victoria Ave.	Windsor, Ont.
1593	4	Wilman, Dan	3403 W. 98th St.	Cleveland, O.
1471	3	Wilson, C. H., Jr.	832 West 8th St.	Erie, Pa.
63	1	Wilson, C. H., Sr.	706 West 8th St.	Erie, Pa.
596	7	Wilson, Chas. L.	164 Willis Ave.	Detroit, Mich.
2313	17	Wilson, R. J.	Box 292, Toronto St.	Midland, Ont.
1408	7	Wilson, Wm.	35 Upton St.	Boston, Mass.
2297	6	Winkler, Herman.	414 No. 6th St.	Manitowoc, Wis.
2295	1	Winter, John J.	101 Elmwood Ave.	Buffalo, N. Y.
1628	3	Woerpel, H.	3835 Central Park Ave.	Chicago, Ill.
1533	4	Wood, J. S.	1790 E. 87th St.	Cleveland, O.
761	4	Woodford, C. H.	Care Pickands, Mather & Co.	Cleveland, O.
1893	7	Woodgrift, C. H.	873 Iroquois Ave.	Detroit, Mich.
2362	4	Woodford, Roy F.	2519 Jay Ave.	Cleveland, O.
2076	10	Woods, A. F.	54 Elizabeth St.	Ogdensburg, N. Y.
2396	10	Woods, James	222 Washington St.	Ogdensburg, N. Y.
1133	6	Woods, Jno.	184 Water St.	Milwaukee, Wis.
1749	10	Woods, Wm. V.	217 Washington St.	Ogdensburg, N. Y.
1121	4	Woodward, C. D.	Care F. Leckie, 1020 Rockefeller Bldg.	Cleveland, O.
2072	1	Worden, Scott	189 W. Euclid Ave.	Detroit, Mich.
503	6	Wright, Wm.	405 Logan Ave.	Milwaukee, Wis.
1643	7	Yates, Wm. H.	236 Horton Ave.	Detroit, Mich.
1841	8	Young, Alex	R. F. D. 1, Care A. Young, Sr.	Marine City, Mich.
819	7	Young, J. P.	99 Edison Ave.	Detroit, Mich.
40	3	Young, Robert	305 N. 5th St.	Chicago, Ill.
1917	9	Zeim, Wm. C.	231 Campbell St.	Alpena, Mich.
2066	4	Zeland, T. J.	1598 Woodward Ave.	Lakewood, O.
1907	6	Zwemer, Everett.	114 2nd St.	Grand Haven, Mich.



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Pennant	Name	Address	City
A 2	Chas. P. Gilchrist	..560 Franklin Ave.....	Cleveland, O.
A 3	J. P. Karr	.....171 River St.....	Cleveland, O.
A 6	John F. Wedow	....93 Tilden St.....	Cleveland, O.
A 7	L. Hausheer, Jr.	.....	Lakewood, O.
A 9	Oliver W. Upson	..,1310 River Ave., N. W....	Cleveland, O.
A 10	J. B. Rodgers	.....175 Highland Ave.....	Buffalo, N. Y.
A 12	A. T. Harvey	.....881 Case Ave.....	Cleveland, O.
A 13	Harvey D. Goulder	..1561 Euclid Ave.....	Cleveland, O.
A 14	W. P. Murray	.....720 Genesee St.....	Cleveland, O.
A 15	J. D. Ashley	.....242 Oliver St.....	Cleveland, O.
A 16	W. H. Becker	.....	Dover, O.
A 17	H. Leonard Wilton	..523 Cass Ave.....	Detroit, Mich.
A 18	Hermon A. Kelley	..Overlook Road, Euclid Heights .....	Cleveland, O.
A 21	Robert J. Dunham	..381 No. Halsted St.....	Chicago, Ill.
A 23	Wm. E. Holmes	....20 Delaware Place.....	Chicago, Ill.
A 24	William H. Wood	..665 Evanston Ave.....	Chicago, Ill.
A 25	D. Sullivan	.....641 West Adams St.....	Chicago, Ill.
A 26	J. H. Sheadle	.....Norfolk Road, Euclid Heights .....	Cleveland, O.
A 27	Chas. W. Elphicke	..111 W. Jackson Blvd.....	Chicago, Ill.
A 28	Ray G. McDonald	..630 First Nat'l Bank Bldg..	Chicago, Ill.
A 29	Geo. J. Harris	.....462 North Water St.....	Chicago, Ill.
A 30	Henry J. Pauly	....207 14th St.....	Milwaukee, Wis.
A 31	W. A. Hawgood	....79 Bell Ave.....	Cleveland, O.
A 32	H. Coulby	.....	Cleveland, O.
A 33	M. A. Bradley	.....1378 Euclid Ave.....	Cleveland, O.
A 34	T. F. Newman	....724 Genesee St.....	Cleveland, O.
A 35	Frank W. Fletcher	.....	Alpena, Mich.
A 36	G. A. Tomlinson	.....	Duluth, Minn.
A 37	Ralph D. Mitchell	..2170 Euclid Ave.....	Cleveland, O.
A 38	F. B. Wadhams	....465 Willson Ave.....	Cleveland, O.
A 40	John H. Schlosser	..22 Hanover St.....	Milwaukee, Wis.
A 42	John O. Teagan	....1065 Jefferson Ave.....	Detroit, Mich.



## THE SHIP MASTERS' ASSOCIATION

Pennant	Name	Address	City
A 43	Christ J. Meyer	98 Ferry St.	Wauwatosa, Wis.
A 44	C. L. Parker	326 St. Alban Ave.	Detroit, Mich.
A 45	Fred W. Green	3184 West 95th St.	Cleveland, O.
A 47	S. W. Gould	1595 E. 86th St. N. E.	Cleveland, O.
A 61	J. C. Evans		
A 63	J. E. Upson	11447 Euclid Ave.	Cleveland, O.
A 65	W. P. Trinter	2313 E. 55th St.	Cleveland, O.
A 66	G. F. Body	601 Canal Road	Cleveland, O.
A 67	Thomas J. Rennick	70 Market St.	Ashtabula, O.
A 68	K. Oakes	46 Palmer Ave.	Detroit, Mich.
A 69	T. A. Cheney	25 Walnut St.	Ashtabula, O.
A 70	E. Lawrence		Fairport Harbor, O.
A 71	H. W. McGean	1845 E. 79th St.	Cleveland, O.
A 72	C. L. Hutchinson	18 Grace Ave.	Lakewood, O.
A 73	A. F. Leopold	3905 Whitman Ave.	Cleveland, O.
A 74	H. B. Drake	2309 E. 93rd St.	Cleveland, O.
A 75	Henry Hull	Williams St.	Huron, O.
A 76	C. C. Lancken	Asot Apts., Crawford Rd.	Cleveland, O.
A 77	Jas. O'Connor	167 Morgan St.	Tonawanda, N. Y.
A 78	F. H. Burrill	54 Spruce St.	Ashtabula, O.
A 79	W. J. Douglas	67 Washington St.	Ogdensburg, N. Y.
A 80	Edw. Smith	444 Linwood Ave., Buffalo Dry Dock Company	Buffalo, N. Y.
A 81	E. C. Collins	3310 Carnegie Ave.	Cleveland, O.
A 82	C. C. Canfield	10215 Westchester Ave. N. E.	Cleveland, O.
A 84	Jos. Kendrick	1229 Rockefeller Bldg.	Cleveland, O.
A 85	Thos. W. Sheriff	277 25th St.	Milwaukee, Wis.
A 86	Carl C. Joys	358 Hanover St.	Milwaukee, Wis.
A 87	Jos. Davidson	356 Virginia St.	Milwaukee, Wis.
A 88	W. C. Starke	137 18th St.	Milwaukee, Wis.
A 89	A. W. Thompson	1304 Rockefeller Bldg.	Cleveland, O.
A 92	R. A. Blood	1363 Belle Ave.	Lakewood, O.
A 94	J. Burton Ayers	1007 Rockefeller Bldg.	Cleveland, O.
A 96	Peter Peterson	2059 Clifton Ave.	Chicago, Ill.
A 97	Ernst P. Lenihan	1961 East 66th St.	Cleveland, O.
A 99	David M. Hackett		Amherstburg, Ont.
A 100	H. H. Thompson	1212 E. 4th St.	Duluth, Minn.
A 101	Daniel D. Murray	2028 E. Superior St.	Duluth, Minn.
A 102	A. J. Schmitt	175 W. Jackson Blvd.	Chicago, Ill.
A 104	George McDonald		Fort William, Ont.



Pennant	Name	Address	City
A 105	Clarence Richardson	60 Alvason Rd.....	Cleveland, O.
A 106	Frank H. Miner	...1512 Robinwood Ave.....	Lakewood, O.
A 107	Gilbert Andersen	..1025 W. North Ave.....	Chicago, Ill.
A 108	James Mowatt	....5136 Prairie Ave.....	Chicago, Ill.
A 109	Thomas Becton	.....	Port Huron, Mich.
A 110	William Hayden	....60 East Seneca St. ....	Buffalo, N. Y.
A 111	F. A. Myer	.....202 Main St. ....	Buffalo, N. Y.
A 112	J. McCarthy	.....159 Ohio St. ....	Buffalo, N. Y.
A 113	McKittrick	. ....409 Oak St. ....	Buffalo, N. Y.
A 114	Bryant O'Day	.....164 Ohio St. ....	Buffalo, N. Y.
A 115	John O'Day	.....Ganson and Ohio St. ....	Buffalo, N. Y.
A 116	Alex Peters	.....Ship Masters' Assn. ....	Buffalo, N. Y.
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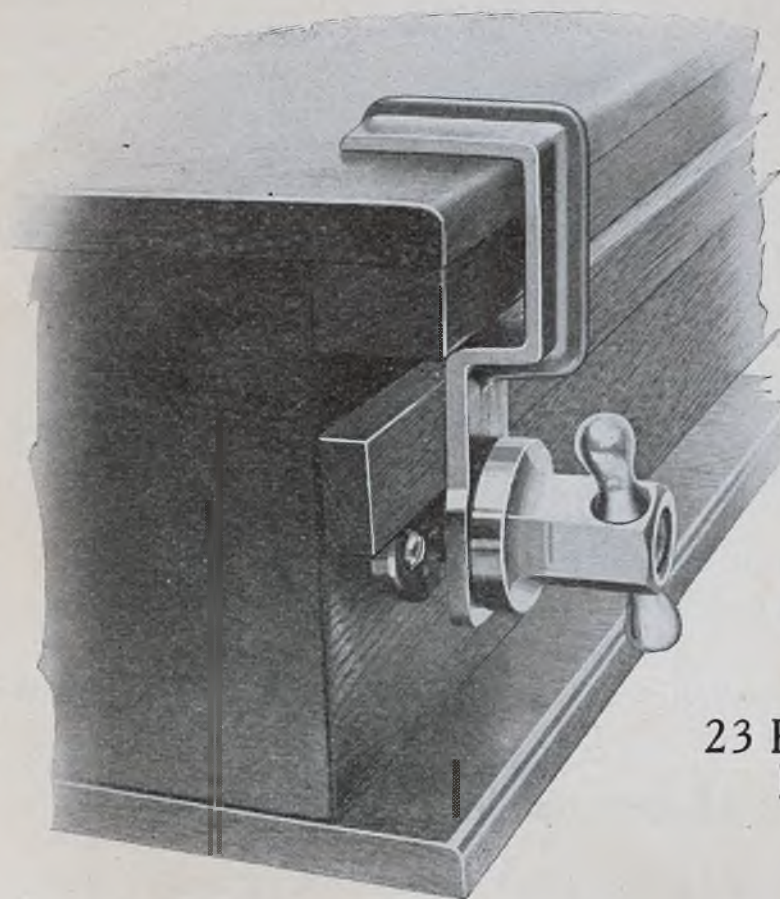
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Pennant	Name	Address	City
H 15	R. C. Smith	536 Fullerton Parkway	Chicago, Ill.
H 16	J. S. Henderson	3448 Carroll Ave.	Chicago, Ill.
H 17	Wm. Langell		St. Clair, Mich.
H 18	George Bugge		St. Clair, Mich.
H 19	J. H. Trumble		St. Clair, Mich.
H 20	S. A. Earle		St. Clair, Mich.
H 21	Wm. A. Morrison		St. Clair, Mich.
H 22	Wm. Wright		St. Clair, Mich.
H 23	Wesley C. Brown		St. Clair, Mich.
H 24	W. T. Landon		St. Clair, Mich.
H 25	H. G. Inman	27 57th Ave. E.	Duluth, Minn.
H 26	C. B. Carroll	R. F. D.	Duluth, Minn.
H 27	John Bovard	Cor. Green & Clark Sts.	Ogdensburg, N. Y.
H 28	Wm. Plumb	8 Ford St.	Ogdensburg, N. Y.
H 29	A. McDonald	5 Elizabeth St.	Ogdensburg, N. Y.
H 30	R. Fitzgerald	61 Hamilton St.	Ogdensburg, N. Y.
H 31	Joseph Richard	Care Hall Coal Co.	Ogdensburg, N. Y.
H 32	Wm. A. Russell	73 King St.	Ogdensburg, N. Y.
H 33	W. D. Waite	141 N. Water St.	Ogdensburg, N. Y.
H 35	George Pearson	361 7th St. E.	Owen Sound, Ont.
H 36	John McIntyre	557 8th St. E.	Owen Sound, Ont.
H 37	John Wharry	952 5th Ave. E.	Owen Sound, Ont.
H 38	George Dunn	972 1st Ave. W.	Owen Sound, Ont.
H 39	P. J. Shaw	507 9th St. E.	Owen Sound, Ont.
H 40	Peter McKay	676 4th Ave. E.	Owen Sound, Ont.
H 41	George Waugh	547 12th St. W.	Owen Sound, Ont.
H 42	F. X. LaFrance	446 9th St. E.	Owen Sound, Ont.
H 43	John Rutherford	1182 1st Ave. W.	Owen Sound, Ont.
H 44	Wm. Sinclair		Warton, Ont.
H 45	Frank Davis		Port McNicoll, Ont.
H 46	A. G. McLeod	992 15th St. E.	Owen Sound, Ont.
H 47	P. C. Telfer	2306 4th Ave. W.	Owen Sound, Ont.
H 48	Neil Campbell	705 3rd Ave. E.	Owen Sound, Ont.

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H 50	John B. Currie	....1568 3rd Ave. E.....	Owen Sound, Ont.
H 51	Charles Burgie	....357 Agelite Ave.....	Port Arthur, Ont.
H 52	James D. Morrison	..344 Van Norman St...	Port Arthur, Ont.
H 53	W. R. Stawntor	....80 Pine St.....	Port Arthur, Ont.
H 54	George Scegal	.....80 Crown St.....	Port Arthur, Ont.
H 55	Grover Buel	.....59 Ontario St.....	Port Arthur, Ont.
H 56	N. Morrison	.....267 Park St.....	Port Arthur, Ont.
H 57	George Cousins	....43 Crown St.....	Port Arthur, Ont.
H 58	George McInnes	...178 N. Cumberland St..	Pt. Arthur, Ont.
H 59	George Cosgrove	.....	Port Arthur, Ont.
H 60	J. Maloney	.....10 College St.....	Port Arthur, Ont.
H 61	W. C. Graley	.....	Midland, Ont.
H 62	R. Smith	.....6th St.....	Midland, Ont.
H 63	F. E. Cook	.....3rd St.....	Midland, Ont.
H 64	W. B. Kitchen	....Midland Ave.....	Midland, Ont.
H 65	G. W. Kinnie	.....King St.....	Midland, Ont.
H 66	A. B. Cuff	.....King St.....	Midland, Ont.
H 67	J. Tindall	.....3rd St.....	Midland, Ont.
H 68	A. G. Gidley	.....Mary St.....	Midland, Ont.
H 69	A. Macaulay	.....Dominion Ave.....	Midland, Ont.
H 70	C. E. Gould	.....	Midland, Ont.
H 71	Peter Light	.....	Penetanguishene, Ont.
H 72	Robert Brown	....49 W. Seneca St. ....	Buffalo, N. Y.
H 73	W. M. Connelly	...715 Rockefeller Bldg. ....	Cleveland, O.
H 74	Morris Crawford	..74 Michigan Ave. ....	Buffalo, N. Y.
H 75	John Gehm	.....45 Elk St. Market.....	Buffalo, N. Y.
H 76	P. J. Gunn	.....120 Michigan Ave.....	Buffalo, N. Y.
H 77	J. A. Grodzinski	...68 Michigan Ave.....	Buffalo, N. Y.
H 78	Thomas Hayden	..60 E. Seneca St.....	Buffalo, N. Y.
H 79	Daniel Hourigan	.....	Oswego, N. Y.
H 80	A. H. Kropman	...340 Washington St. ....	Buffalo, N. Y.
H 81	L. Lautenslager, Jr.	Care Hands & Johnson Tug Office, .....	Buffalo, N. Y.
H 82	John E. Morris	...Iroquois Rubber Co.....	Buffalo, N. Y.
H 83	Albert Norton	.....227 Franklin St.....	Buffalo, N. Y.
H 84	Thomas Quinn	....Foot Michigan Ave., Care Coal Co. Dock Office..	Hedstrom Buffalo, N. Y.
H 85	J. A. Weisback	....202 Main St. ....	Buffalo, N. Y.
H 86	Harry Wright	.....17 Elk St. ....	Buffalo, N. Y.
H 87	A. J. Green	.....Summit Ave. ....	Lakewood, O.
H 88	E. W. Dissette	.....	

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Arranged According to Pennant Numbers

Pennant Numbers 15 to 269 Inclusive

Pennant	Lodge	Name	Pennant	Lodge	Name
15	7	Ivers, John H.	149	3	Carr, James
17	1	Dunn, John	155	7	Hart, Fred C.
22	1	Hogg, G. L.	160	4	Hoover, N. E.
35	1	Clarke, Geo. H.	164	4	Lowe, James B.
40	3	Young, Robert	167	4	Tower, Chas. B.
42	1	Fletcher, William	170	1	Hall, John B.
44	4	Chapman, A. C.	174	4	Brown, Frank H.
49	1	Robinson, Walter	176	4	Mallory, G. B.
50	1	Corcoran, Joseph	177	4	Rae, F. H.
54	4	Sherwood, D. N.	182	4	Lowe, John
55	10	Shay, W. S.	184	4	Stone, Henry W.
56	3	Root, F. D.	191	2	May, A. C.
61	7	Thorne, William	197	4	Lyons, R. J.
63	1	Wilson, Chas. H., Sr.	199	3	Disher, William
69	1	Thorp, E. F.	200	3	Gallagher, Anthony
78	2	McArthur, John	206	7	Trottier, Geo. N.
79	3	Tebo, George	223	4	Saph, C. M.
89	2	Kendall, H. J.	227	2	Buzzard, John
104	1	Berrow, Joseph H.	229	14	Pringle, John C.
105	1	Durker, Henry	231	4	Spear, E. P.
108	1	Murphy, Henry	232	6	Ballentine, E. D.
113	2	Madden, M. J.	234	4	Benham, C. E.
115	2	Anderson, E. B.	252	3	Chron, Thomas
116	1	Coleman, Jeremiah	253	7	Armstrong, Byron
120	1	Grasser, George	254	3	Moore, H. R.
121	2	Davis, E. H.	256	3	Cambell, J. M.
129	1	Murphy, S. M.	262	4	Stough, Lafayette
133	1	Richardson, Harry	264	4	Humphrey, W. H.
138	2	Davis, Henry	266	4	Mallory, D. H.
140	2	Powrie, P. F.	269	4	Holmes, Jos. A.

Pen- nant	Lodge	Name	Pen- nant	Lodge	Name
272	4	Ennes, C. G.	427	4	Benham, Chas. A.
274	4	Collier, Wm. A.	433	4	Cleveland, C. R.
277	2	Sinclair, D. M.	438	4	Colbert, Thos.
279	1	Robarge, G. E.	439	6	Carter, W. J.
283	3	Loftus, H. F.	443	3	Regan, John
287	3	Roach, P. C.	448	1	Coughlin, Daniel
288	4	McKay, Geo. P.	448	6	Anderson, O. N.
290	4	Call, Richard	450	3	Minskey, J. P.
293	4	Chapman, C. B.	451	3	Flood, G. W.
294	4	Wallace, Chas. H.	464	7	Nicholson, D.
300	3	McCambridge, T.	477	6	Maxon, F. C.
302	4	Mitchell, John	479	6	Starke, F. C.
305	4	Weeks, J. L.	481	6	Jamieson, William
307	4	Ames, William	486	6	Stewart, John
315	1	McEachern, A.	496	6	Schwerman, Fred
317	1	Drake, A. B.	498	6	Leisk, John
319	1	Buie, Daniel	500	6	Leisk, Henry
336	7	Watts, Jas. B.	501	6	Doak, John A.
339	4	Mulholland, Matt.	503	6	Wright, Wm.
347	4	Fick, F. A.	506	4	Hawgood, A. H.
348	9	Stalker, Duncan	507	6	McSweeney, John
350	14	O'Connor, R.	509	6	Scott, W. B.
352	7	Williams, W. H.	513	6	McCoy, John
355	4	Morgan, Jas. W.	515	6	McGregor, W. F.
358	4	Olsen, Olaf	528	7	Hutton, John T.
359	3	Jenks, John	532	7	Duncanson, D. J.
362	3	Higgins, Thomas	542	3	McDonald, Geo.
363	7	Swain, Martin	543	3	MacLean, Donald
365	3	Mansfield, I. B.	546	4	Sanders, Jos.
370	3	Clow, J. M.	553	9	Harlow, Wm. J.
371	6	Sullivan, D. C.	557	2	Laframboise, Jas.
373	2	Everett, Anthony	558	4	Rae, Frank C.
381	1	Perew, John	560	2	Tharp, W. H.
388	2	Harrow, W. B.	566	1	Shepard, A. M.
391	4	Hinslea, Chas. H.	570	4	Anderson, Joseph
394	1	Johnson, John	572	3	Hubbard, Chas. H.
407	4	Doville, Jos.	576	2	Maitland, Henry
410	3	Williams, David	586	7	Stewart, A. E.
412	3	Moore, Chas. K.	595	6	Boyce, H. M.
418	1	Stevenson, Hugh	596	7	Wilson, Chas. L.
422	4	Thompson, J. C.	603	7	Lohr, Edward



Pen- nant	Lodge	Name	Pen- nant	Lodge	Name
612	7	Fox, Arthur J.	822	2	Mosier, R. H.
613	9	Meikleham, Thos.	826	9	Herrick, T. C.
614	9	Bailey, Robt. N.	827	1	Cunningham, Jas.
624	4	Peterson, H.	831	9	Gillespie, Isaac G.
629	7	Ferguson, Robt. E.	843	9	Sage, Geo. V.
632	7	Skiffington, J. A.	844	9	Walker, Norman B.
636	7	Stoddard, Lewis	850	4	Slackford, W. G.
641	2	Harper, Geo.	854	9	Ashley, Ed. G.
642	3	Cochrane, David	856	9	McKinley, Jas.
651	7	Waltman, Jos.	861	2	Chambers, A. P.
656	2	Montgomery, W. L.	865	7	July, Edward F.
657	7	Thorburn, John	875	7	McCallum, H. C.
666	7	Holbrook, T. H.	881	7	Hoffman, Frank
671	7	Millen, Wm. F.	891	1	Madigan, Jos. A.
671	7	Ashley, W. A.	892	6	Christenson, Peter
675	4	Miller, C. D.	893	7	Hursley, Jay
694	4	Peterson, C. A.	899	3	Elliott, A. M.
695	4	Peterson, C. A.	902	3	Robertson, Geo.
708	4	Rice, Frank	910	7	McLean, Wm.
712	6	McGinn, James	914	4	Carlos, W. S.
719	9	Tomlin, Wm. J.	921	4	Steible, John
731	7	Campau, W. H.	932	3	Weimar, Fred T.
732	7	Mara, James	941	3	McIntyre, Allen
738	4	Cottrell, Geo. L.	952	4	Eldridge, H. C.
750	7	Livingston, W., Jr.	959	4	Moody, Wm. H.
751	7	Lennon, Wm.	960	4	Lampoh, Jos.
753	7	McKay, Alex. J.	965	4	Ward, John
755	7	McLarty, James	971	2	Fleck, James A.
760	4	Stone, Lewis W.	972	7	McAlpin, John
761	4	Woodford, C. H.	973	3	Brion, James W.
767	7	McIntosh, M. G.	978	6	Bennett, Henry
770	1	Graham, George	980	10	Walsh, James A.
771	1	McMillan, Chas.	982	4	Benham, Wm. P.
782	8	Rice, Phillip	983	4	Detlefs, Emil
786	8	Hagan, Wm.	986	3	Gallino, A. P.
798	4	Mitchell, Alfred	987	7	Hutchins, F. C.
799	8	Shaw, G. A.	988	4	Megervey, Wm.
804	2	Brown, C. T.	992	3	Moore, J. F.
810	4	Lalond, Anthony	994	2	Manuel, Fred W.
819	7	Young, J. P.	995	2	Budd, Melvin A.
821	1	Rowan, Murdock	996	6	Ackerman, J. C.

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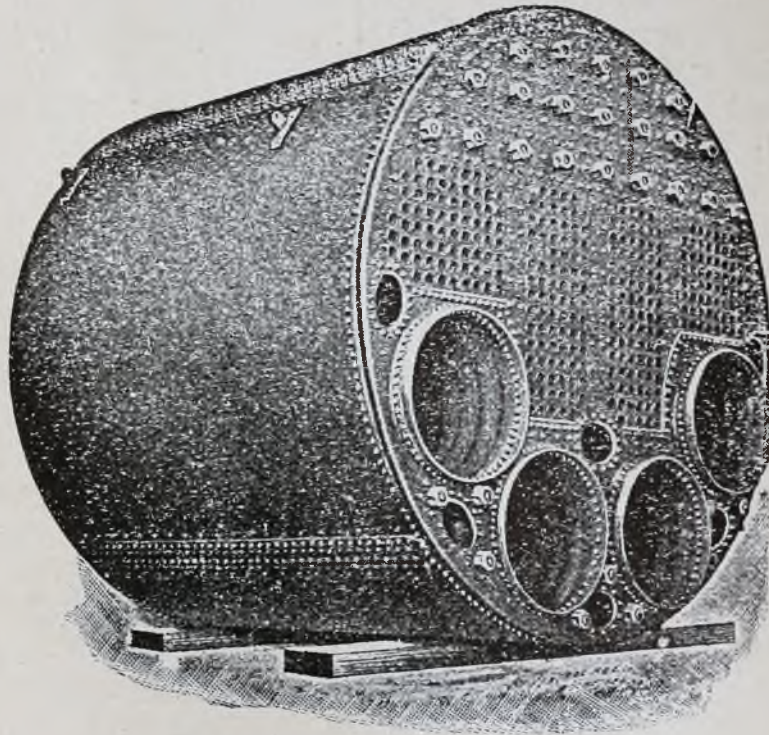
Pen- nant	Lodge	Name	Pen- nant	Lodge	Name
1001	4	Walder, R. J.	1082	7	Malette, Paul A.
1004	4	Hoag, Wm. S.	1083	6	Brownell, Stephen
1010	4	Laframboise, Jacob	1085	7	Clark, Alex.
1012	2	Cowles, Wm. J.	1088	4	Sanders, Thos. H.
1013	7	Smith, A. C.	1090	4	Beggs, Thos.
1014	2	Johnston, Edward	1091	1	Howe, Alfred B.
1016	1	Green, John D.	1095	6	Duddleson, John W.
1017	4	Hunt, Wm. J.	1096	4	Tear, F. S.
1018	3	Howard, Martin	1101	2	Burns, John
1020	4	Jollie, Richard	1103	6	Ross, C. D.
1021	2	Bennett, Jas. S.	1104	2	Sinclair, J. H.
1026	4	Fox, Benson	1105	14	Reece, Geo. O.
1028	7	McLachlan, Archie	1106	4	Heaton, Chas. H.
1029	1	Herbert, Fred	1109	2	Neal, Jas. S.
1032	6	Moody, Chas. E.	1111	6	Small, E. S.
1035	4	Ingraham, F. E.	1112	7	McCarthy, Daniel
1038	4	Allen, Sam'l C.	1114	1	Stevenson, Geo. C.
1039	4	Post, Jos. W.	1115	4	Jones, John F.
1041	4	Ferguson, Wm.	1116	4	Allen, C. L.
1043	3	Rand, Leroy A.	1117	7	Burke, Enos J.
1044	6	Williams, Edward	1118	1	Warwick, Henry
1045	1	Wilkins, W. W.	1121	4	Woodward, Chas. D.
1047	1	Martin, Edward	1122	7	Kearns, Joseph
1050	1	Thompson, Peter	1124	6	Wanvig, John D.
1051	6	Tower, John	1125	3	Christensen, A.
1052	7	McGuire, Norman	1126	9	Benson, Dan.
1054	7	Goodrow, Frank	1127	4	Dyble, Edw.
1055	4	Tulian, G. D.	1131	9	Jex, H. N.
1058	4	Willoughby, W. J.	1132	7	West, Bert E.
1059	4	Driscoll, Jas. H.	1133	6	Woods, John
1060	1	Gibson, James R.	1135	4	Craigie, Alex.
1061	7	Brady, Thos. J.	1136	4	Hergenrother, J. A.
1065	7	McIntosh, John L.	1137	7	Balfour, C. C.
1067	4	McGarry, John	1140	1	Hansen, A. C.
1068	4	Bouille, David	1140	3	Hanson, Andrew
1070	4	Cody, F. B.	1141	7	Forton, Frank S.
1073	7	Mahon, A. J.	1147	9	Doville, D. F.
1075	7	Donaghue, E. J.	1148	6	Olson, Sam, No. 2
1076	7	Crosby, Wm. J.	1150	14	Greening, Wm.
1079	9	Lockhart, D. O.	1151	7	Wilkinson, Fred
1081	7	Johnson, Alex.	1153	3	Hamilton, W. D.

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Pen- nant Lodge	Name	Pen- nant Lodge	Name
1155	1 Montgomery, J. W.	1249	6 Soleau, O. J.
1157	8 Taylor, James	1251	9 Doville, Egbert
1159	1 Hayes, W. J.	1252	9 Cunningham, J. J.
1160	8 McDonald, J. H.	1254	2 Reed, Wm. A.
1161	7 MacDonald, N.	1257	8 Cottrell, Jas. F.
1167	9 Burnham, Geo.	1262	8 Broadbridge, A. T.
1169	1 O'Day, Simon	1266	9 Kirker, Fred
1170	3 Minter, Thos. B.	1269	3 Patterson, Wm.
1171	3 Reid, Robert, Jr.	1274	6 Cook, J. G.
1172	3 Christopher, S.	1276	8 Maxwell, Wm.
1175	7 Millen, P. L.	1283	4 Robinson, A. R.
1177	4 Burr, James L.	1284	7 Rains, Ed. T.
1179	1 O'Neil, Patrick	1285	3 Leith, Alex.
1182	7 Parsons, H. H.	1294	1 Burns, John J.
1183	7 Stevens, E. P.	1295	4 Landfair, B. M.
1184	4 Hinslea, Henry	1303	4 Sutherland, Wm. T.
1185	4 Parsson, F.	1304	9 Harlow, Frank T.
1187	1 Hartman, John J.	1307	4 Reid, Fred'k H.
1193	7 Bertrand, Frank	1308	3 Campau, Louis A.
1194	7 Maddock, J. B.	1309	9 Cook, J. W.
1197	4 Hand, A. S.	1312	1 Weinheimer, F. L.
1198	8 Brown, Hector	1313	1 Secord, C. D.
1199	8 McCann, S. B.	1314	1 Grant, C. J.
1201	7 Parsons, Joseph	131	12 MacGregor, Wilson
1204	7 Maddock, J. C.	1315	3 Anderson, Wm.
1205	4 Blattner, Wm. H.	1321	4 Anderson, Mathew
1206	6 Larson, Peter	1328	11 Ames, Augustus
1208	3 Jacobson, Jacob	1329	4 Peterson, Peter A.
1209	2 Neal, Wm. D.	1330	4 Johnston, John M.
1219	4 England, Rich. W.	1334	2 Akers, E. C.
1226	8 Mattison, E. F.	1344	6 Preston, John R.
1227	8 Folsom, Frank C.	1351	4 Mahon, Walter M.
1229	8 Kinyon, S. D.	1352	4 Leckie, Frederic
1233	7 Parsons, Dudley R.	1355	7 Christie, Charles
1236	4 Bouille, Pierre	1356	7 Baker, Harris W.
1237	4 Kelly, Henry	1359	3 Higgle, J. F.
1240	2 Kelly, James W.	1360	7 Dailey, Michael
1241	2 Canartney, M.	1361	4 Faragher, William
1243	8 Kuhn, John	1362	3 Sinclair, Cyrus H.
1244	7 Clifford, Alex.	1363	3 Elliott, Frank
1246	9 Stalker, A. W.	1368	4 Anderson, Chas. A.

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**Oils at All Important Ports**

**Erie,    =    =    =    Pennsylvania**



Pen- nant	Lodge	Name	Pen- nant	Lodge	Name
1369	1	Vrooman, Geo. H.	1454	4	Bailey, F. A.
1371	8	Van Gorder, Chas.	1457	3	Fitch, Edward
1374	7	Callam, Alex. C.	1462	4	McDonald, Wm.
1377	7	Robinson, Salem O.	1464	1	Finegan, Owen P.
1381	3	Lamoreaux, Joseph	1465	7	Flaherty, Joseph
1384	4	Bartel, A. E.	1466	7	Simpson, Fred J.
1385	1	White, A. E.	1467	9	Dunseith, John
1386	4	Ferguson, John A.	1469	3	Tisdale, Geo. B.
1387	4	Brand, August	1471	3	Wilson, Chas. H., Jr.
1388	1	Klock, E. M.	1472	4	Saph, Jay P.
1392	1	Peterson, M. S.	1476	6	Sniffin, B. M.
1393	1	Clark, John C.	1479	11	Jackson, Rich. C.
1394	4	Johnson, Martin	1480	4	Smith, Philip H.
1395	4	Nordahl, Arnold	1481	11	Johnson, Wm. H.
1397	7	Baker, Burton S.	1482	4	Packer, Wm. H.
1402	8	Markle, S. J.	1483	4	Ellis, Frank S.
1403	4	Goodwin, Jas. F.	1487	9	Lyons, Jas. B.
1408	7	Wilson, Wm.	1489	4	Stewart, Walter G.
1410	7	Talbot, Geo. E.	1490	11	Lyons, Stephen A.
1411	7	Anderholt, L. P.	1491	4	Williams, Archie M.
1412	1	Stevenson, Wm. H.	1492	4	Dixon, Alfred
1413	1	Saunders, Jas. M.	1493	4	Gould, Francis E.
1415	4	MacLachlan, A. H.	1494	4	Ehrhart, John W.
1417	7	Forbes, Alexander	1495	2	Cassin, Jas.
1421	8	Hill, Fred C.	1497	1	Herbert, James G.
1423	4	Banker, Geo. H.	1498	3	Anderson, Sigverdt
1424	4	Light, F. W.	1499	4	Benham, Geo. E.
1425	3	Edwards, M. L.	1500	4	Thompson, Rob't
1427	3	Bough, Chas.	1501	4	Vanslet, Abram
1433	7	MacLean, Wm. J.	1502	2	Hendricks, Edw.
1434	7	Recor, Geo. F.	1503	2	Bradshaw, John L.
1435	7	Rattray, Chas.	1504	2	McLean, J. C.
1437	3	Kohnert, J. E.	1508	1	Clarke, W. E.
1442	4	Keller, Alva B.	1513	6	Anderson, Gus. E.
1443	7	Iler, Walter C.	1514	11	Warner, Walt. B.
1444	3	Olsen, John K.	1519	1	Dunn, Thos.
1445	3	Cullnan, John	1522	4	Randall, A. E.
1446	4	Fitch, Edward	1523	4	Culp, Hamilton
1447	7	Craig, John C.	1524	7	Pickell, E. S.
1451	3	Jones, Harry	1525	6	Bennett, Geo. J.
1453	3	McKay, Wm. J.	1526	7	Gordon, D. G.

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Pen- nant Lodge	Name	Pen- nant Lodge	Name
1527 6	Hendricksen, Otto	1587 4	Millikin, Wm.
1528 4	Pringle, Rob't C.	1588 4	Grashaw, Walter
1529 4	Ennes, Everett S.	1589 4	Burns, T. C.
1530 3	McGannon, Wm. P.	1590 2	Randall, Frank
1531 14	Brown, Nelson	1591 2	Thompson, W. F.
1533 4	Wood, J. S.	1592 7	Bain, A. J.
1534 8	Dupiue, Frederic A.	1593 4	Wilman, Dan
1534 6	Jones, Warren	1595 4	Girardin, W. L.
1536 3	Evans, Rob't T.	1596 4	Gustafson, Peter
1538 4	Murdock, John A.	1597 7	Wilkinson, Chas.
1539 6	Dority, Frank A.	1599 6	Coon, Geo.
1540 7	Carr, Whitney	1600 7	Girardin, D. C., Jr.
1541 7	Pocock, Henry A.	1602 7	Holt, James G.
1542 4	Buchanan, James	1603 3	Johnson, Carl
1547 7	Hosner, V. L.	1604 3	Johnson, Martin
1548 7	Webster, Chas. T.	1605 3	Bright, W. T.
1549 4	McEwen, Henry W.	1606 8	Kendall, Geo. B.
1550 4	Simmons, Thos. G.	1607 3	Peterson, T. J.
1552 6	Garrity, Thomas	1608 3	Evans, John
1553 4	Holdridge, George	1609 2	Carlisle, Theo. J.
1554 1	Doochen, John B.	1610 1	Barclay, John
1555 2	Hughes, Henry S.	1612 7	Hansen, John T.
1557 4	McGarry, George	1616 8	McDonald, G. W.
1559 9	Lohr, John M.	1617 3	Lang, Julius
1561 6	McShane, Daniel W.	1619 3	McQueen, W. A.
1562 1	Milne, John	1620 4	Ames, G. W.
1563 4	Conkey, Charles M.	1621 4	Walper, Henry
1566 6	DuClos, Napoleon	1622 4	Moore, S. S.
1568 3	Green, Arnold	1623 7	Norvell, Walker
1569 7	Archer, Arthur A.	1625 7	Kennedy, James
1572 4	Moore, Frank	1628 3	Woerpel, H.
1573 1	Boggan, Moses	1629 2	Fowler, Thomas
1574 3	Strahan, Louis F.	1631 7	McCarthy, John
1576 9	Fox, J. C.	1632 7	Barnes, Chas. E.
1577 4	Burt, George G.	1635 6	Redner, Elmer E.
1578 1	Kelley, Andrew	1637 4	Dawley, W. W.
1580 4	Meeker, S. E.	1638 3	Shea, Jos. A.
1582 7	Merckel, C. G.	1639 3	Willett, C. W.
1584 1	Buckley, J.	1641 4	Anderson, P. A.
1585 7	Gatfield, E. D.	1643 7	Yates, Wm. H.
1586 14	West, Fred A.	1644 7	Ludington, Lewis

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**TOLEDO, OHIO**



Pen- nant	Lodge	Name	Pen- nant	Lodge	Name
1647	1	Weinheimer, E. W.	1705	1	Acton, Joseph
1648	1	Shaw, Edward L.	1706	3	Trodahl, H. H.
1649	1	Weinheimer, E. J.	1707	7	Hormig, Wm. F.
1650	1	Kerr, Harry	1709	4	Talbot, A. J.
1651	1	Brooks, Wm. H.	1710	4	Robinson, John W.
1652	1	McDonald, J. A.	1711	4	Reid, Wm. C.
1653	1	Gebhard, F. R.	1712	4	Storey, Wm. J.
1654	1	Stevenson, Thos.	1713	4	Morton, Edw. R.
1661	2	Knapp, R. H.	1714	4	Birmingham, Jas.
1664	2	Crooker, D. M.	1715	8	Booth, Wm. H.
1667	12	Pierce, W. L.	1717	1	Crawford, Geo. B.
1668	2	Ditzel, Henry E.	1719	1	Donahue, Joseph
1669	1	Watson, C. W.	1720	4	Olsen, Oscar
1670	1	Drury, John E.	1721	8	Hetherington, N. M.
1672	14	Doner, James	1722	3	Weaver, Geo. W.
1673	7	Brown, Claud D.	1723	1	Gibson, James
1675	4	Mooney, Wm.	1724	3	Morgan, M. F.
1676	9	Sullivan, N. M.	1725	7	McDonald, John A.
1677	2	Stevenson, Wm.	1726	1	O'Hagan, John
1678	6	Lee, Iver M.	1727	1	Broderick, Benj.
1679	4	Fowlie, Andrew	1728	1	Hefferman, Jas.
1680	3	Taylor, Edward	1730	2	Crockett, Tyler J.
1682	3	McCauley, C.	1732	2	Sawyer, E. S.
1683	7	Dorry, Benj. B.	1733	10	Anderson, S. V.
1684	2	Geel, Guy G.	1734	10	Leonard, M. A.
1685	4	Massey, S. B.	1736	10	Murphy, H. A.
1687	1	Koch, Robert	1737	10	Nelson, Chas. O.
1688	7	Leonard, Roy M.	1738	10	Powers, John J.
1689	7	Autterson, Chas.	1739	10	Dunn, Chas. A.
1690	6	Kearns, Chas. J.	1740	10	Nelson, A. C.
1691	6	Brownell, Jos. A.	1741	10	Russell, Henry
1692	4	Stanley, Edward	1743	10	Stitt, Wm. J.
1694	7	Morrison, J. N.	1745	10	Smith, John J.
1695	1	Miller, Chas. F.	1746	10	Kinch, Geo. H.
1696	6	Clausson, Gus T.	1748	10	Maltby, Wm. G.
1698	4	Bell, G. A.	1749	10	Woods, Wm. V.
1698	3	Meyer, Gust.	1753	1	O'Hagan, Hugh
1700	3	Anderson, Alex. A.	1754	1	Hanley, Chas. C.
1701	3	Atkinson, Gus E.	1756	1	Rolseng, Iver
1702	4	Moore, Wm. E.	1756	1	Holmberg, Henry
1704	4	Mason, Chas. D.	1757	1	McLaren, Benj. C.

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Pen- nant	Lodge	Name	Pen- nant	Lodge	Name
1760	1	Hefferman, T. N.	1811	1	Heaney, John C.
1760	1	Bennett, Chas. D.	1812	1	Davis, Henry J.
1761	1	McMaugh, Archie A.	1814	1	McLeod, Dugald
1762	1	Wilkinson, Rob't B.	1815	7	Fox, Chas.
1763	6	Mackey, Melvin	1816	4	Allen, Merton G.
1765	6	Larson, N. L.	1817	1	Montgomery, Jno. A.
1766	14	Doner, Thos. F.	1818	6	Oakley, James
1767	2	Johnston, Martin	1819	6	Carus, Edward
1768	2	Brown, Chas. D.	1820	14	Hollingshead, John
1769	11	Stewart, Mil'rd M.	1821	4	Moore, Geo. W.
1770	11	Stewart, Jas. P.	1822	4	Weitzman, C. A.
1771	11	Galton, F. D.	1826	7	Pearson, John J.
1772	11	Kendall, Douglas	1827	7	Burns, Geo. C.
1773	11	Heminger, F. R.	1829	7	Nesbit, W. K.
1774	11	Little, Nelson T.	1830	7	Byers, J. Clarke
1776	11	Kenworthy, Sam'l	1832	7	Honner, G. W.
1778	11	Moore, S. D.	1833	-6	McCauley, Chas.
1779	11	Grant, Theo.	1834	14	Hayward, Geo.
1780	11	Smith, Sidney H.	1836	2	Millard, Wm. L.
1781	11	Mitchell, Alvin	1836	14	Lowes, Jos. H.
1783	11	Ames, Wm. J.	1837	8	Williamson, P. L.
1784	3	Simons, John	1838	8	Fehmer, Otto
1785	7	Klinger, Geo. N.	1841	8	Young, Alex.
1786	7	Hackett, Thos. H.	1842	8	Recor, Rob't Jas.
1787	7	DeNike, Lee C.	1843	4	Ritchie, W. S.
1788	1	Patterson, R. C.	1844	1	Clarke, Jas. M.
1789	4	Logan, John A.	1845	1	Chilson, W. E.
1790	1	Massey, Chester	1848	8	Recor, Edgar O.
1791	8	Marcero, Charles	1851	7	Huntoon, Fred A.
1792	7	Peltier, Rob't D.	1851	10	Delaney, Geo. J.
1793	2	Johnston, Jas.	1852	7	Jagenow, Wm.
1795	4	Thompson, M. S.	1854	7	McKay, Daniel
1798	7	Judson, H. W.	1855	7	Stuart, Thos. J.
1799	10	McDonald, John	1857	3	McKenzie, Ken.
1800	10	Loveless, Fred	1858	3	Post, Samuel G.
1801	3	MacMillan, John	1860	6	Olson, Samuel
1803	4	Durney, John	1861	6	Cavanaugh, J. F.
1804	4	Nelson, Olaf	1863	10	Kiah, David, Jr.
1807	4	Perew, Frank D.	1865	4	Noble, John
1809	1	Lucas, W. J.	1866	4	McLeod, D. W.
1810	1	McClinton, W. D.	1867	1	Abel, Wm.

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Pen- nant	Lodge	Name	Pen- nant	Lodge	Name
1872	6	Stufflebeam, John A.	1941	6	Marsh, Sidney O.
1873	6	McIsaac, Neil	1942	6	Tulledge, Bernard
1874	6	Crawford, John G.	1943	6	Thorsen, Louis
1878	6	Hoxie, A. K.	1945	1	Burns, James
1879	6	LaFleur, Wm. H.	1946	.9	Holman, Henry
1880	7	Williscroft, John E.	1947	9	Rose, Otto
1884	6	Hays, John C.	1948	8	Ames, Francis C.
1885	6	Evanson, Arnold	1949	14	Conlin, Thos. N.
1886	3	Evans, Edw.	1950	14	Rinn, J. B.
1887	4	Holmes, A. W.	1951	2	Foster, John
1888	7	Ogden, B. F.	1952	14	Smith, Alex. C.
1890	10	Casey, Henry	1953	14	Autterson, Jos. W.
1892	1	Apsey, A. W.	1954	4	Cowie, Andrew
1893	7	Woodgrift, Chas. H.	1955	9	Warner, Raymond
1896	7	Palmer, Alfred J.	1956	6	Voight, A. C.
1897	7	Sauer, Geo.	1957	10	Stitt, James Monroe
1899	7	MacAulay, Geo.	1958	10	Stitt, Geo. P.
1901	7	Lightbody, J.	1959	1	Sexsmith, Sam'l
1902	8	Utley, R. Z.	1960	8	Baird, John D.
1903	8	Beall, A. R.	1961	7	Cannolly, James T.
1904	8	Mitchell, Dana R.	1962	1	Myers, Ralph D.
1904	6	Alexander, Algie	1963	1	Heppner, Philip
1905	6	Sanders, H. L.	1964	14	Morse, A. R.
1906	6	Jenkyn, Alex.	1967	8	Lavelly, L. J.
1907	6	Zwemer, Everett	1970	6	Franklin, W. E.
1908	6	Cartwright, Peter	1973	4	Malott, J. W.
1909	3	Jaenke, Herman M.	1974	3	Fischer, Robert
1910	3	Berensten, Jacob	1975	3	Eger, W. W.
1911	10	Gamash, Frederick J.	1976	1	Johnson, Alfred
1914	11	Warner, W. E.	1977	9	Cornwall, Alton W.
1915	14	Kenyon, Wm. S.	1978	9	Millard, Ralph B.
1916	9	Adams Joseph	1979	6	Thrasher, Chas. R.
1917	9	Zeim, Wm. C.	1981	3	Pardee, J. F.
1919	14	Meno, Frank L.	1987	7	Davie, David W.
1920	7	Gleason, John F.	1988	7	Jones, Charles A.
1924	14	Hayward, E. H.	1989	6	Ericksen, Henry
1926	1	Mallory, R. A.	1990	8	McNeill, Walter H.
1930	2	Cooper, J. E.	1991	10	Travis, Frederick
1933	6	Walle, Martin	1994	7	Ernest, Chas. W.
1936	6	Richardson, Frank	1995	1	Morin, Thomas F.
1937	7	McGowen, Hugh L.	1996	3	Leith, Wm. R.

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Pen- nant	Lodge	Name	Pen- nant	Lodge	Name
1997	2	Farley, Edward J.	2057	4	Campbell, John
1998	2	Krenkel, Chas. F.	2058	4	Dodge, Wm. J.
1999	2	McDonald, J. E.	2059	3	Crawford, J. M.
2000	8	Langell, Leonard P.	2061	3	Johnson, Geo. E.
2001	4	Weaver, Jas. T.	2063	3	Byork, Oscar C.
2002	4	Dunn, P. H.	2064	12	Clegg, Harry J.
2003	10	Dessert, Wm. G.	2065	6	Rosie, William
2004	3	Hansen, Hans	2066	4	Zeland, Thomas J.
2005	3	Lindale, T. T.	2067	3	Van Velzen, H.
2006	1	Rinn, Wm.	2068	3	Thayer, C. R.
2007	1	Ernest, Frank H.	2069	14	Finnegan, Herbert
2010	3	Morrison, Dougal	2070	11	Stewart, Harry W.
2011	1	Wiener, Fred E.	2071	11	Campbell, R.
2012	1	Lavell, Nels.	2072	1	Worden, Scott
2014	1	Jansen, Jacob C.	2073	1	Wiebe, Fred
2016	1	McFadden, W. L.	2074	12	Gallagher, B. J.
2019	11	Galton, J. W.	2076	10	Woods, Arthur F.
2022	2	Friley, Herman W.	2078	8	Burrows, Arthur W.
2023	12	Swenson, Albert	2079	7	Sullivan, Wm. E.
2024	12	Jones, Albert M.	2080	7	Ellis, Claude A.
2025	12	Glockle, M. B.	2081	3	Upham, Lucien
2027	12	Slater, Fred R.	2082	1	Hutchins, H. J.
2028	12	Chamberlain, Wm. B.	2084	12	England, Edward F.
2030	12	Fox, Henry	2085	12	Hansen, Hans C.
2032	12	Doherty, John E.	2088	7	Pauls, Frederick H.
2034	12	Brower, Harry F.	2091	8	Laffrey, Delos
2037	12	Glenn, Martin E.	2092	4	Nelson, S.
2038	12	Lloyd, Walter S.	2093	4	Tufverson, N. P.
2039	12	Murphy, Oswald	2094	3	Campbell, Walter
2041	12	Hoy, W. E.	2095	2	Warwick, Ernest W.
2042	12	Green, Chas. H.	2096	4	McLachlan, Wm. H.
2043	12	Sullivan, D. T.	2098	11	Townsend, Chas. A.
2044	12	Johnson, Henry	2099	3	Matson, Sigfred W.
2046	12	McDougall, Thos.	2100	12	Gallagher, James H.
2047	11	Atkinson, Geo. Ame.	2101	6	Cook, Jacob F.
2048	3	Elliott, Charles A.	2103	14	Campbell, Robert
2049	1	Green, Joseph M.	2104	14	Autterson, John
2050	1	Van Natta, Chas. F.	2105	14	Hartman, Augustus
2053	6	Palm, Edward	2106	14	Burk, Jos. C.
2053	6	Peterson, Frank J.	2107	14	Brines, Jesse M.
2055	1	Coughlin, Michael	2110	14	Hamilton, Wm. L.

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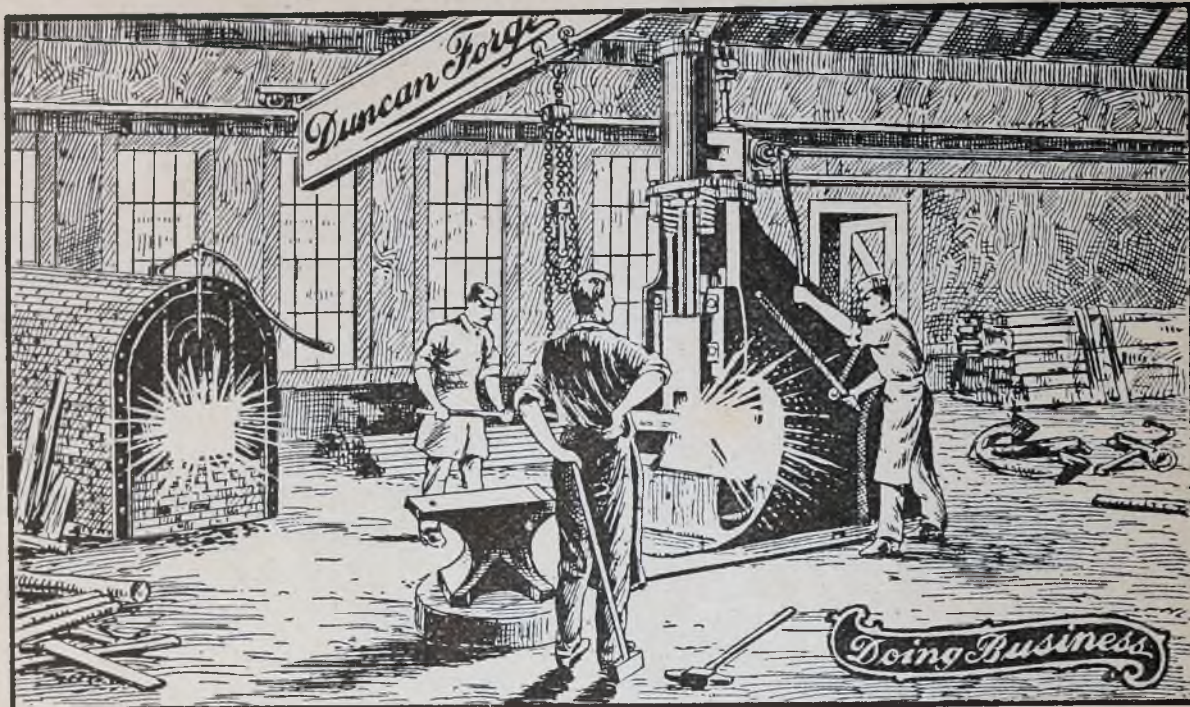
**FORT WILLIAM, ONT.**

**PORT ARTHUR, ONT.**



Pen- nant	Lodge	Name	Pen- nant	Lodge	Name
2111	1	Larson, John A.	2160	4	Wade, Frederick J.
2112	6	Miller, Christian	2161	4	McDonald, John J.
2114	12	Greene, Peter	2162	4	Wendorf, H.
2116	4	Hughes, Joseph	2163	2	Thody, Fred W.
2117	4	Glen, Alexander	2164	14	Mussman, A.
2118	11	Morrison, E. R.	2165	11	Perkins, Horace L.
2120	11	Roe, Stephen J.	2166	3	Anderson, Herbert E.
2121	3	McClintock, John	2167	3	Madden, John H.
2122	6	Grimm, Otto C.	2170	6	Andrews, Andrew
2123	6	Thorpe, John	2171	1	Campbell, Chas.
2124	6	Mellan, Gunerius	2172	1	Delaney, Wm. F.
2127	7	Sullivan, Thos. D.	2173	12	Lyons, Geo. A.
2128	1	Williams, W. W.	2174	12	MacLeod, Andrew R.
2129	1	McCorkell, Wm. H.	2175	12	Seeley, Harrison D.
2130	8	Wellhousen, H. C.	2176	4	Tilden, L. S.
2131	4	Sturtevant, Fred C.	2177	6	Roddy, Timothy
2132	12	Nelson, F. E.	2178	14	Alexander, Robt.
2133	8	Piotter, Chas. L.	2179	14	Albinson, Clarence R.
2134	4	Neville, R. J.	2180	12	Forbes, Arthur
2135	4	Van Buskirk, John	2181	12	Lewis, Frank
2136	9	Lamb, Harry	2183	14	Linton, W. E.
2137	9	Slavin, James F.	2184	6	Holt, Carl A.
2138	4	Pringle, Walter R.	2187	1	Starkey, Mark J.
2140	8	Henry, A. W.	2188	1	Phillips, James J.
2141	4	Dunn, W. R.	2189	2	Stockdale, Roy N.
2143	10	Russell, Frank P.	2190	2	Sills, Arthur
2144	7	Morrison, Alvin A.	2191	2	Ward, Peter
2145	7	McDougall, Wm. L.	2192	11	Warner, Clarence W.
2146	7	Loughlin, Geo. F.	2193	11	Cole, F. S.
2147	7	Perrault, Albert	2194	12	Ege, Gustaf
2149	14	Jerome, Willis R.	2195	7	Littlejohn, Wm.
2150	14	Brines, Samuel	2196	7	Beauvais, Harry
2151	14	Doner, George R.	2197	7	McDonald, Fred
2152	14	Chambers, D. G.	2198	4	Moes, W. H.
2153	14	Aitken, H. J.	2199	4	Morrison, Wm. F.
2154	3	Emersen, S. R.	2199	7	McLachlan, Donald
2156	3	Seiderland, F. A.	2200	15	McKay, Norman
2157	12	Cole, Martin	2201	8	McCannel, J.
2158	12	Elden, Otto J.	2203	15	McKay, M.
2158	2	Montgomery, George A.	2204	15	McKay, Angus G.
2159	4	Collins, Allen	2205	15	McIntyre, R.





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Pen- nant	Lodge	Name	Pen- nant	Lodge	Name
2206	15	Hogue, Archie	2256	7	Oman, Chas. H.
2207	15	Davis, J. F.	2256	7	Quinlan, Wm.
2208	15	Nolan, Dan	2257	3	Eaton, R. C.
2209	15	McIntyre, A. B.	2258	3	Risto, Ed.
2210	15	Barreth, N.	2259	2	McMartin, Frank
2211	6	Larsen, James L.	2260	6	Leisk, Henry A.
2212	6	Johnson, Oscar A.	2261	4	Rattray, E. Gordon
2213	8	Langell, Thomas	2262	4	Francis, Lawrence J.
2215	6	Gallagher, Lester A.	2263	6	VanDyke, W. H.
2216	3	Peterson, Martin	2264	16	Bradden, John E.
2221	12	Gunderson, G.	2265	16	Gehl, Henry L.
2222	12	Pratt, Frank C.	2266	16	Ferguson, W. J.
2224	10	Curran, John F.	2267	16	Marin, Oswald P.
2224	4	McAlpine, Hugh	2268	16	Morrison, Angus
2225	8	Marcero, Arthur W.	2269	16	Richmond, U. G.
2226	6	Kruwell, E. H.	2270	16	Nuttall, Wm.
2228	4	McGinnis, Geo. W.	2271	16	Nuttall, Robert E.
2229	4	Rydholm, Carl A.	2272	16	Nuttall, Allen S.
2230	4	Rourke, John	2273	16	Taylor, Wm. J.
2232	4	Pitts, Oliver	2275	16	Fader, Alexander
2233	15	Pearson, John P.	2276	16	Friday, Joseph
2233	15	Cormett, Wm. E.	2278	16	McLeod, Norman J.
2234	15	Cormett, Daniel F.	2279	7	Parsons, Jos. W.
2235	6	Fowler, Christa C.	2279	16	Friday, Harry
2237	15	McCoy, Norman J.	2281	9	Pocock, Robert J.
2239	4	Rinn, Charles	2282	4	DeLand, W. A.
2239	15	Olstrom, G. C.	2283	6	McCauley, John P.
2240	9	Dagon, Dennis	2284	2	Myers, George F.
2241	2	Jamison, Alex. W.	2285	16	Garriock, W.
2242	1	Healy, James J.	2286	16	McIver, George
2243	2	Lott, Edgar O.	2287	12	Johns, John F.
2244	3	McGarity, Daniel J.	2288	12	Pinney, Jesse
2245	7	Sloan, Bernard J.	2289	12	Rankin, Arthur E.
2247	4	Kane, R. L.	2290	15	Batten, A. A.
2248	15	Leaney, Harry	2291	4	Johnson, Roy E.
2249	15	Bishop, Joseph	2292	4	Culp, John W.
2251	12	Dyrness, Ole	2293	1	Barry, Fred
2252	12	Hector, Fred C.	2294	1	Murphy, Charles
2253	6	Petroskey, Walter	2295	1	Winter, John J.
2254	4	Durkee, W. W.	2296	1	McPherson, A. J.
2255	6	Kiel, Wm. Theo.	2297	6	Winkler, Herman



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Pen- nant	Lodge	Name	Pen- nant	Lodge	Name
2298	14	Cahours, Edward	2340	7	MacDonald, Alex.
2299	14	Lawrence, Earl J.	2341	4	Robinson, Frank
2300	4	Levis, George	2342	3	Gellich, B. J.
2301	10	Larosee, Hector	2342	4	Leroy, Thomas G.
2302	10	Patenaude, Armand	2343	6	Norteman, L. W.
2303	10	Robineau, Alban	2344	6	Tobin, Gordon
2305	17	Burke, Roy	2345	17	Beatty, Wilbur
2306	17	Murphy, E. W.	2347	7	Reilly, Wm. S.
2307	17	Carson, Wm.	2348	1	Harrison, Wood
2308	17	Madden, W. J.	2349	1	Williams, John E.
2309	17	McLennan, Alex.	2350	1	Oliver, Percy
2310	17	German, Frank	2351	12	Ness, Martin O.
2311	17	Lavigne, Wm. A.	2352	10	Lago, Thomas
2312	17	McIntosh, John A.	2353	6	Solway, Severt A.
2313	17	Wilson, Roland J.	2354	17	Gould, C. E.
2314	17	Burke, Fred	2355	16	McGinnis, John J.
2315	17	Cummingham, Wm. J.	2356	16	Scott, J. A.
2316	17	Burke, E. F.	2357	16	Smith, Edward R.
2317	17	Jewell, W. J.	2358	16	McIver, John
2318	17	Hill, Ira D.	2359	16	Marcellias, W. C.
2319	17	Burke, David J.	2360	16	Cassin, Josue
2320	17	Hudson, Arthur A.	2361	16	McDonald, Angus
2321	17	Hudson, J. H.	2362	4	Woodford, Roy F.
2322	17	Laking, Albert E.	2364	6	Stufflebeam, Gerald E.
2323	17	Legree, Joseph	2365	12	Byers, John F.
2324	17	Napier, Joseph	2366	16	Garriock, James
2325	17	Stalker, Malcolm	2367	16	McDonald, Peter
2326	17	Nicholls, Bruce	2368	16	Alexander, Wm.
2327	17	Dube, Edmond	2369	4	Christensen, C. S. O.
2328	17	Burke, B.	2370	12	Munro, Wm. J., Jr.
2329	15	Frewer, Geo. D.	2371	4	Gardner, Chas. B.
2330	15	Misner, Robt.	2372	4	McCarthy, Patrick
2331	3	Emigh, Herbert W.	2373	4	Scheible, Herman J.
2334	12	Ditzel, Edw. J.	2374	12	Ege, Louis
2335	12	Bourassa, Albert	2375	12	La Vaque, John C.
2336	12	Garner, Alfred D.	2376	12	Miller, Thos.
2336	8	Lockhart, Asa	2377	4	Pilzer, W. J.
2337	4	Amsbary, Walter F.	2378	4	Full, Peter
2338	6	Tilley, Robert G.	2379	7	McCarthy, J. P.
2339	10	Russell, Wm. R.	2380	4	Kentosh, M. J.
2340	3	Ferguson, James J.	2381	3	Hillstrand, Herman



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Pen- nant	Lodge	Name	Pen- nant	Lodge	Name
2382	1	McKenzie, Alex.	2393	12	Gibson, Norman
2383	1	Sellon, Daniel	2394	6	Newbauer, Walter
2384	1	Spaulding, Henry W.	2395	1	Kennedy, John
2385	12	Roberts, Burdette J.	2396	10	Woods, James
2386	12	Stemman, John J.	2397	1	Carr, James
2387	3	Topic, Peter	2398	6	Quackenbush, Emmet
2388	3	Cummings, George	2399	10	Tooden, Frank
2389	14	Recor, Joseph F.	2400	3	Brookhyser, Geo.
2390	4	Slade, J. J.	2401	15	Campbell, Thomson
2391	4	Martin, Peter J.	2402	17	Beatty, A. W.
2392	7	Mitchell, Harry	2403	4	Bush, Chas. A.
			2404	2	Hayes, John E.

**OFFICERS OF SUBORDINATE LODGES.**

**Buffalo Lodge, No. 1:** John A. Montgomery, president; Iver Rolseng, first vice president; Thomas Stevenson, second vice president; Edward L. Shaw, secretary; John B. Hall, treasurer; Frank Gebhard, chaplain; Daniel Coughlin, marshal; James Burns, warden; Jeremiah Buckley, sentinel; delegate to Grand Lodge, John A. Montgomery; alternate, Iver Rolseng.

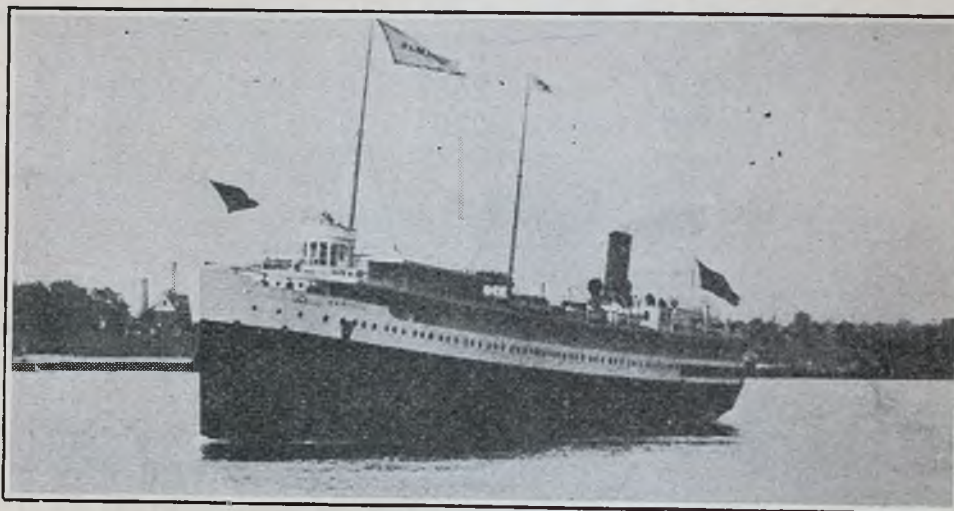
**Port Huron Lodge, No. 2:** E. C. Ackers, president; D. M. Crooker, first vice president; Alex. Jamieson, second vice president; D. M. Sinclair, secretary-treasurer; E. C. Ackers, delegate to the Grand Lodge; H. Maitland, alternate.

**Chicago Lodge, No. 3:** J. F. Higgin, president; L. A. Rand, vice president; W. W. Egger, second vice president; Robt. Young, treasurer; M. F. Morgan, secretary; C. H. Hubbard, delegate to Grand Lodge; L. A. Rand, alternate.

**Cleveland Lodge, No. 4:** A. M. Williams, president; M. G. Allen, first vice president; W. Grashaw, second vice president; J. A. Holmes, secretary; F. L. Leckie, treasurer; C. R. Cleveland, marshal; G. L. Cottrell, chaplain; H. C. Eldridge, warden; F. Sturtevant, sentinel.

**Milwaukee Lodge, No. 6:** Frank A. Dority, president; Peter Cartwright, vice president; Arnold Evanson, second vice president; F. C. Maxon, treasurer; John McSweeney, secretary; Michael Dailey,

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**Toledo Lodge, No. 9:** Jas. McKinley, president; H. Lamb, first vice president; R. J. Pocock, second vice president; E. G. Ashley, secretary and treasurer; H. N. Jex, chaplain; N. M. Sullivan, marshal; John Dunseith, warden; Otto Rose, sentinel; A. W. Stalker, delegate to Grand Lodge; E. G. Ashley, alternate.

**Ogdensburg Lodge, No. 10:** F. P. Russell, president; Fred. Travis, first vice president; W. V. Woods, second vice president; M. A. Leonard, secretary and treasurer; W. J. Stitt, delegate to the Grand Lodge meeting; M. A. Leonard, alternate.

**Twin Ports Lodge, No. 12:** C. H. Green, president; D. T. Sullivan, first vice president; Wm. E. Hoy, second vice president; Albert Swenson, secretary and treasurer; Thos. A. McDougall, chaplain; Wm. B. Chamberlain, marshal; F. Slater, warden; Jesse Pinney, sentinel; D. T. Sullivan, delegate to Grand Lodge; Thos. A. McDougall, alternate.

**St. Clair Lodge, No. 14:** Jos. Lowes, president; Joseph Auttersen, first vice president; A. R. Morse, second vice president; Jos. Burk, chaplain; Richard O'Connor, treasurer; Frank L. Meno, secretary; Jno. T. Auttersen, marshal; Thomas Conlin, warden; Earl Lawrence, sentinel; Joseph Lowes, Grand Lodge representative; Frank L. Meno, alternate.

**Owen Sound Lodge, No. 15:** Capt. McKay, president; A. G. McKay, first vice president; D. F. Cornett, second vice president; W. E. Cornett, secretary; Geo. Pearson, chaplain; G. C. Ostrom, marshal; N. Barrett, sentinel; Jos. Bishop, financial secretary and treasurer; Geo. Waugh, warden.

**Thunder Bay Lodge, No. 16:** William J. Ferguson, president; Norman J. McLeod, first vice president; John Bradden, second vice president; Oswald P. Marin, secretary and treasurer; Harry Friday, chaplain; Henry L. Gehl, marshal; William J. Taylor, warden; William R. Staunton, sentinel; Geo. Stitt, delegate for Grand Council; O. P. Marin, alternate.

**Midland Lodge, No. 17:** A. A. Hudson, president; Alex MacLennan, first vice president; W. J. Madden, second vice president; R. J. Wilson, treasurer; W. A. Lavigne, financial secretary; W. B. Kitchen, chaplain; A. E. Laking, marshal; W. C. Gidly, warden; Jos. Legree, sentinel.

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STATEMENT SHOWING ASSESSMENTS COLLECTED BY LODGE  
DURING THE YEAR 1914

Lodge No. 1	Buffalo . . . . .	\$2158.00
Lodge No. 2	Port Huron . . . . .	1018.00
Lodge No. 3	Chicago . . . . .	1952.00
Lodge No. 4	Cleveland . . . . .	3586.00
Lodge No. 6	Milwaukee . . . . .	1636.00
Lodge No. 7	Detroit . . . . .	2526.00
Lodge No. 8	Marine City . . . . .	694.00
Lodge No. 9	Toledo . . . . .	606.00
Lodge No. 10	Ogdensburg . . . . .	490.00
Lodge No. 11	Algonac . . . . .	460.00
Lodge No. 12	Twin Ports . . . . .	670.00
Lodge No. 14	St. Clair . . . . .	552.00
Lodge No. 15	Owen Sound, Ont. . . . .	290.00
Lodge No. 16	Thunder Bay, Ont. . . . .	292.00
Lodge No. 17	Midland, Ont. . . . .	302.00
Total assessments. . . . .		\$17232.00

During the year 1914 eight assessments were called and fifteen claims paid.

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PITTSBURGH & YOUGHIOGHENY COAL**



## MEMBERSHIP IN EACH LODGE

Name	No. of Lodge	Good Standing
Buffalo . . . . .	1	140
Port Huron . . . . .	2	70
Chicago . . . . .	3	122
Cleveland . . . . .	4	228
Milwaukee . . . . .	6	108
Detroit . . . . .	7	160
Marine City . . . . .	8	45
Toledo . . . . .	9	38
Ogdensburg . . . . .	10	35
Algonac . . . . .	11	28
Twin Ports . . . . .	12	48
St. Clair . . . . .	14	37
Owen Sound . . . . .	15	21
Fort William . . . . .	16	27
Midland . . . . .	17	24
Toronto . . . . .	18	
Total . . . . .		1131

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Henry S. Henschen - - Cashier	Frank I. Packard, Asst. Cashier
Walter J. Cox - Asst. Cashier	Edward A. Schroeder, Asst. Cash'r
C. Edward Carlson Asst. Cashier	Samuel E. Knecht - Secretary

### BOARD OF DIRECTORS

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Mgr. Jones & Laughlin Steel Co.	President Reid, Murdock & Co.
Theo. Freeman	L. A. Goddard
Retired Merchant	President
Henry A. Haugan	H. G. Haugan
Vice-President	Ex. Compt. C., M. & St. P. Ry. Co.
Oscar H. Haugan	A. Lanquist
Mgr. Real Estate Loan Dept.	President Lanquist & Illsley Co.
Wm A. Peterson	George E. Rickords
Proprietor Peterson Nursery	Chicago Title & Trust Co.
Moses J. Wentworth, Capitalist	

This bank now has to its credit 35 years of conservative banking, 40,000 satisfied customers with over \$25,000,000 of deposits. Your account is welcome whether small or large.



## DEATH CLAIMS PAID, YEAR 1914

Name	Lodge No.	Claim	Paid	Date of Death	Am't. Pd.
A. J. Greenley	4	Feb. 9, 1914		1-2-14	\$1000.00
C. Rieley	1	Feb. 24, 1914		1-18-14	1000.00
A. Sommers	4	Apr. 27, 1914		11-9-13	1000.00
C. W. Lockwood	4	May 12, 1914		4-1-14	1000.00
G. R. Longly	1	June 8, 1914		5-10-14	1000.00
R. McDowell	4	June 20, 1914		4-17-14	1000.00
L. Willet	4	June 20, 1914		4-19-14	1000.00
F. Maitre	6	Sept. 15, 1914		8-18-14	1000.00
J. Q. Owen	7	Oct. 2, 1914		9-14-14	1000.00
W. Firby	7	Dec. 16, 1914		10-18-14	1000.00
Jas. Gibson	1	Dec. 16, 1914		10-31-14	1000.00
J. B. Warner	9	Dec. 16, 1914		11-4-14	1000.00
P. O'Neil	1	Dec. 16, 1914		11-6-14	1000.00
A. Greer	1	Dec. 16, 1914		11-7-14	1000.00
J. P. Young	7	Dec. 16, 1914		11-16-14	1000.00

Total death claims paid .....\$15000.00

Phone Cedar 155

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OF EXCELLENCE FOR THE  
WHOLE CHAIN OF GREAT  
LAKES AND IT STILL IS





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 REPORT OF MEMORIAL COMMITTEE
 

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To the Grand Lodge Ship Masters' Assn. at Washington assembled:

We, the Memorial Committee, submit the following:

We are pleased to report a mercifully short record of fatalities among members of our association either through illness or in consequence of the hazardous vocation they so dauntlessly and cheerfully followed. Though deeply grateful that the bereavements are fewer in number those brothers who are taken from us will be truly missed and their places are memories faithfully preserved.

We herewith respectfully submit names of the deceased:

A. J. GRINLY  
 CORNELIUS REILLY  
 H. H. CUMMINGS  
 C. W. LOCKWOOD  
 G. R. LONGLY  
 ROBT. McDOWELL  
 LUKE WILLET  
 JAMES McALLISTER  
 FRANK MAITRY  
 J. C. OWEN

W. T. PURLY  
 JAMES GIBSON  
 J. B. WARNER  
 PATRICK O'NEIL  
 ALEX. GREER  
 J. P. YOUNG  
 JOHN DISSET

F. A. Dority,  
 J. H. Lowes,  
 J. A. Montgomery.

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## In Memory

Of Brother Shipmasters who have departed this life since the Association was Organized

John A. Archer	N. Robinson	John S. Van Rensler
D. M. Becker	Edward Kelley	D. H. Bryant
J. P. McArthur	H. C. Little	Peter C. Bassett
Thomas Collins	Alexander Read	A. A. Cox
I. H. Andrews	Smith Moore	Joseph Nicholson
John Nelson	John C. Flor	A. Morrison
P. J. Sexton	Thomas Hackett	John W. Jordan
J. P. Hodges	Fred G. Boothman	Wm. Young
John Cotton	John Wilson	Fred N. La Salle
H. J. Hatch	Peter J. Girard	Albert Stewart
Edward Condon	Eugene Winchester	F. J. McCabe
John Condon	John Cornish	James Lawless
Thomas Riordan	Thomas Beniteau	John Hagan
James Carlisle	Patrick Pardee	John Hurley
Benj. Chambers	Zach Sargisson	John Leonard
Henry Ellis	Alpha Simons	Jos. L. Munger
John Keelin	John R. Donahue	J. W. Moore
Robert Hayes	J. B. McManus	Chas. Miner
Albert Meyers	C. S. Geel	Morton H. Place
P. G. Minch	W. H. Cowin	W. H. Larrabee
Peter J. Kenney	W. S. Mack	J. D. Mullen
A. Muir	Byron Brown	James Edgecomb
A. W. Reed	Lorenzo W. Cook	Joseph Shackett
P. Ryan	Bernard Wilds	Thomas Walker
E. W. Dorsey	David Critchett	Wm. Rolls
E. K. Porter	Wm. G. Turner	E. Saveland
L. H. Weeks	Robt. Moore	W. H. McNelly
P. Woods	J. S. Lawton	James Donegan
W. E. Ladner	J. W. Farwell	E. T. Hawley
H. A. Sisson	J. W. Martin	F. D. Welcome
H. B. Vosburg	Peter Cromley	P. Ryan
George Scott	Thos. Cowan	Wm. Cumming
Thomas Maytham	C. A. Peltier	Wm. Hutcheson
E. M. Peck	Thos. H. Stafford	W. R. Williams
S. Shannon	Wm. H. Wallace	C. T. Morley
Jno. R. Gorman	Daniel Jones	Thos. Richardson
Thos. Harbottle	James Snell	William Cavers
James Frasier	Henry Root	Martin Johnston
Louis Guthrie	Chas. W. Black	Wm. Morse
George W. Stoddard	John N. Lundy	John Buie
Albert Meswald	John Freer	M. W. Gotham
D. M. Jones	Alvin Neal	Henry Jeffrey
James Webber	F. J. Cadotte	C. H. Lewis
Thomas Rowley	J. B. Pierce	L. H. Waterbury
R. E. Gain	James Drake	J. C. Carry
F. I. Purcell	John C. Brown	A. C. Reimers
William Carlisle	Delos Waite	E. W. Haskins



B. C. Gray  
 D. A. McLaughlin  
 Henry Berlin  
 Warren Morris  
 W. W. Brown  
 J. R. Sinclair  
 Louis Ryerse  
 Wm. Dickson  
 Richard Neville  
 Charles Brown  
 F. W. Stanton  
 R. H. White  
 A. P. Clinton  
 Edmund Fitzgerald  
 J. Harrington  
 John Jenkins  
 John McCarthy  
 James Parsons  
 W. C. Godsell  
 John Coulter  
 J. C. Thompson  
 F. A. Chalcraft  
 Maurice Barrett  
 Francis Nixon  
 T. H. Howland  
 Wm. Shanks  
 P. A. Anderson  
 James Doyle  
 John McNeff  
 Joseph S. Parsons  
 Frank Nixon  
 C. M. Davis  
 Henry Dawson  
 Charles McCrea  
 George King  
 T. C. Ellis  
 Daniel Wall  
 C. B. Chatterson  
 James W. Millen  
 J. H. Green  
 Harry Rodgers  
 C. F. Moore  
 Albert M. Gibbs  
 Joseph Hullivan  
 George H. Flood  
 Robert Todd  
 George M. Dennis  
 Alex. Begg  
 L. P. Goodale  
 F. A. Wetmore  
 Parlane McFarlane  
 Thomas Jones

W. A. Irvine  
 David Curran  
 Nelson Blair  
 Thos. Ledden  
 John Robertson  
 W. S. Smith  
 Henry Bennett  
 S. A. Gilmore  
 W. Mitchell  
 Henry Bennett  
 J. W. Nicholson  
 S. H. Curry  
 C. B. Crawford  
 Alex. Clarke  
 Wm. Crawford  
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 M. Fitzgeralds  
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 John Beckley  
 Olof Christenson  
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 Henry Gegoux  
 Wm. Furtain  
 Wm. Roach  
 M. H. Murch  
 C. C. Allen  
 Wm. J. Leaver  
 Chas. McIntosh  
 Lysander Davidson  
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 H. W. Blue  
 J. B. Hocrath  
 Geo. F. Dayton  
 Ed. Smades  
 Elton E. Rattray  
 Henry May  
 Joseph A. Calbick  
 Timothy Rahill  
 Geo. W. Burtis  
 Thos. Delargie  
 Carlton Graves  
 John N. Smith  
 James Leitch  
 John Wright  
 Geo. Pollick

Ed. C. Copeland  
 Peter McCulloch  
 Wm. Mitchell  
 Paul T. Weimar  
 Chas. Christy  
 James W. Comstock  
 Paul Howell  
 James Leisk  
 Patrick Dowdell  
 Jesse G. Hurlburt  
 W. E. Rice  
 J. A. Ward  
 H. C. Page  
 Donald McLeod  
 Gust Olsen  
 Geo. Du Beau  
 Homer Durand  
 David Girardin  
 M. J. Galvin  
 T. M. Hough  
 Martin Niland  
 John S. McNeil  
 L. R. Vance  
 J. A. Landfair  
 Alfred Eade  
 T. A. Ellery  
 Paul V. Howell  
 David Kelly  
 T. J. Bell  
 James Travis  
 Andrew Peterson  
 A. W. Dwelle  
 Wm. McAlpine  
 Thomas W. Otter  
 J. C. Byers  
 C. E. Little  
 D. O. Bordeaux  
 D. F. Cleveland  
 John McNeil  
 J. D. Peterson  
 Joseph E. Yax  
 J. A. Whiteside  
 Fred Minor  
 Edward Mooney  
 Hugh O. Miller  
 Peter Wex  
 Hiram Still  
 Louis Elliott  
 Wm. Chamberlin  
 Samuel Atwood  
 Wm. W. Shaw

Daniel McFarlane	T. J. Stephens	C. R. Ney
Peter Kilty	I. I. Wulkie	Peter Peterson
Raymond Cazellis	Nelson Little	P. Kelley
Jas. P. Godman	T. Lemay	C. T. Bronson
Wm. J. Pringle	Peter Young	J. J. Doyle
Jas. Hogan	E. B. Shay	T. J. Tyre
Jas. A. Brown	B. Moshier	A. J. Huntoon
Geo. A. Brown	George McCullagh	W. G. Harrow
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John Wilkinson	D. C. Carrier	W. P. Wheeler
Thomas Wilford	H. Shackett	A. J. Grinly
A. A. Causley	F. A. Goodell	Cornelius Reilly
John McKeeghan	J. F. Vaughn	H. H. Cummings
H. A. Hagensen	D. McFarlane	C. W. Lockwood
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Robert A. Lyons	P. Gutch	James McAllister
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James Bruce	G. Phillips	J. C. Owen
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John A. Johnson	E. Morton	James Gibson
John L. Griffin	J. L. Owen	J. B. Warner
Robert J. Cowley	F. C. Watson	Patrick O'Neil
William Gerlach	W. A. Black	Alex. Greer
George U. Wilson	R. Rowan	J. P. Young
William T. Young	A. Sommers	John Disset
Frank Freshette	E. A. Hill	



## LIFE-SAVING STATIONS ON THE 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.

## 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 mile 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.  
Pentwater—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.



## CANALS FROM LAKES TO ATLANTIC

The Canadian canals, which have made it possible for a vessel drawing 14 ft. of water to reach the Atlantic from the lakes, are as follows, beginning down the St. Lawrence river: Lachine canal,  $8\frac{1}{2}$  miles; Soulanges canal, 14 miles; Cornwall canal, 11 miles; Farran's Point canal, 1 mile; Rapid plat canal, 3 2-8 miles; Galops canal, 7 1-3 miles; Welland canal,  $26\frac{3}{4}$  miles; total, 72 2-8 miles. The River St. Lawrence with the system of canals established on its course above Montreal, and the lakes Ontario, Erie, St. Clair, Huron and Superior, with connecting canals, afford a course of water communication extending from the Straits of Belle Isle to Port Arthur at the head of Lake Superior, a distance of 2,260 statute miles. The distance to Duluth is 2,384 miles. From the Straits of Belle Isle, at the mouth of the St. Lawrence to Montreal, the distance is 986 miles. From Quebec to Montreal, the distance is 160 miles. Owing to the shallowness of the waters on a portion of the river between these two places, particularly through Lake St. Peter, vessels drawing more than from 10 to 12 ft. were formerly barred from passage for the greater part of the season of navigation. In 1826 the question of deepening the channel was first definitely mooted, but it was not until 1844 that any dredging operations were begun. In that year the deepening of a new straight channel was commenced, but the scheme was abandoned in 1847. In 1851 the deepening of the present channel was begun. At that time the depth of the channel at low water was 10 ft. 6 in. By the year 1869 this depth had been increased to 20 ft., by 1882 to 25 ft., and by the close of 1888 the depth of  $27\frac{1}{2}$  ft. at low water was attained for a distance of 108 miles from Montreal to a point within tidal influence. This work is now being continued by the government of Canada, which in 1888 assumed the indebtedness incurred. The channel has a minimum width of 300 ft., extending to 550 ft., at points of curvature. It is lighted and buoyed.

Montreal has by this work been placed at the head of ocean navigation and here the canal systems of the River St. Lawrence begin, overcoming the various rapids by which the river channel upward is obstructed, and giving access, through the St. Lawrence canals, the Welland canal, the great lakes and the Sault Ste. Marie



canal to the head of Lake Superior. The difference in level between the point on the St. Lawrence near Three Rivers where tidal influence ceases and Lake Superior is about 600 ft. The total lockage (or height directly overcome by locks) from tide water to Lake Superior is 552 ft. The number of locks through which a vessel would pass in its passage from Montreal at the head of ocean navigation, to the head of Lake Superior, is forty-seven.

It is important to note that the enlargement of the canals on the main route between Montreal and Lake Erie comprises locks of the following minimum dimensions: Length 270 ft., width 45 ft., depth of water on sills 14 ft. The length of the vessels to be accommodated is limited to 256 ft. At Farran's point in the canal of that name the lock is 800 ft. long. A similar lock is built at Iroquois on the Galops canal, the object being to pass a full tow at one lockage.

Leading particulars of the Lachine canal are as follows: Length,  $8\frac{1}{2}$  statute miles; number of locks, five; dimensions of locks, 270 ft. by 45 ft.; total rise or lockage, 45 ft.; depth of water on sills at two locks, 18 ft., and at three locks, 14 ft.; average width of new canal, 150 ft. The old lift locks, 200 ft. by 45 ft., are still available with 9 ft. of water on mitre sills. The depth of the canal between locks is now adapted to vessels of 14 ft. draught. The canal consists of one channel, with two distinct systems of locks, the old and the enlarged. There are two lock entrances at each end. The canal extends from the city of Montreal to the town of Lachine, overcoming the St. Louis rapids, the first of a series of rapids which bars the ascent of the river St. Lawrence.

Dimensions of the Soulanges canal are: Length of canal, 14 miles; number of locks, lift four, guard one; dimensions of locks, 280 ft. by 45 ft.; total rise on lockage, 84 ft.; depth of water on sills, 15 ft.; breadth of canal at bottom, 100 ft.; breadth of canal at water surface, 164 ft.; number of arc lights, 219 of 2,000 candle power each. The canal extends from Cascade Point to Coteau landing, overcoming the Cascade rapids, Cedar rapids and Coteau rapids.

Dimensions of the Cornwall canal are: Length of canal, 11 miles; number of locks, 6; dimensions of locks, 270 ft. by 45 ft.; total rise or lockage, 48 ft.; depth of water on sills, 14 ft.; breadth of canal at bottom, 100 ft.; breadth of canal at water surface, 164 ft. The old lift locks, 200 ft. by 45 ft., are also available with 9 ft. of water on mitre sills. From the head of the Soulanges to the foot of the Cornwall canal there is a stretch through Lake St. Francis of  $32\frac{3}{4}$  miles, which is being made navigable for vessels drawing 14 ft. The



Cornwall canal extends past the Long Sault rapids from the town of Cornwall to Dickenson's landing.

The Farran's point, Rapide plat and Galops canals are collectively known as the Williamsburg canals. Dimensions of the Farran's point canal are: Length of canal, one mile; number of locks, one; new lock, 800 ft. by 45 ft.; old lock, 200 ft. by 45 ft.; total rise or lockage,  $3\frac{1}{2}$  ft.; depth of water on sills of new lock at ordinary water level, 14 ft.; depth of water on sills of old lock at ordinary water level, 9 ft.; breadth of canal at bottom, 90 ft.; breadth of canal at water surface, 154 ft. From the head of Cornwall canal to the foot of Farran's point canal the distance on the St. Lawrence river is five miles. The latter canal enables vessels ascending the river to avoid the Farran's point rapids passing the full tow at one lockage. Descending vessels run the rapids with ease and safety.

Particulars of the Rapide plat canal are as follows: Length of canal, 3 2-3 miles; number of locks, two; dimensions of locks, 270 ft. by 45 ft.; total rise or lockage,  $11\frac{1}{2}$  ft.; depth of water on sills, 14 ft.; breadth of canal at bottom, 80 ft.; breadth of canal at surface of water, 152 ft. The old lift lock, 200 ft. by 45 ft., is also available with 9 ft. of water on mitre sills. From the head of Farran's point canal to the foot of Rapide plat canal there is a navigable stretch of  $10\frac{1}{2}$  miles. This canal was formed to enable vessels ascending the river to pass the rapids at that place. Descending vessels run the rapids safely.

Dimensions of the Galops canal are: Length of canal,  $7\frac{1}{2}$  miles; number of locks, three; dimensions of locks (two), 270 ft. by 45 ft., (one) 800 ft. by 45 ft.; total rise or lockage,  $15\frac{1}{2}$  ft.; depth of water on sills, 14 ft.; breadth of canal at bottom, 80 ft.; breadth of canal at surface of water, 144 ft. From the head of Rapide plat canal to Iroquois, at the foot of the Galops canal, the St. Lawrence is navigable  $4\frac{1}{2}$  miles. This canal enables vessels to overcome the rapids at Pointe aux Iroquois, Point Cardinal and the Galops.

Dimensions of the Murray canal (extending through the Isthmus of Murray, giving connection westward between the head waters of the bay of Quinte and Lake Ontario, and thus enabling vessels to avoid the open lake navigation), are: Length between eastern and western pierheads,  $5\frac{1}{2}$  miles; breadth at bottom, 80 ft.; breadth at water surface, 120 ft.; depth below lowest known lake level, 11 ft.; no locks.

The Welland canal is too well known to require extended description. Its main line runs from Port Dalhousie, Lake Ontario, to Port Colborne, Lake Erie. The Welland canal has two entrances from

Lake Ontario at Port Dalhousie, one for the old and the other for the new canal. From Port Dalhousie to Allanburgh,  $11\frac{3}{4}$  miles, there are two distinct lines of canal in operation, the old line and the enlarged or new line. From Allanburgh to Port Colborne, a distance of 15 miles, there is only one channel, the old canal having been enlarged.

It is but just to state that considering its population and resources Canada has done vastly more for its waterways than has the United States. The sum of \$75,000,000 is mentioned as a conservative estimate of the money which the Dominion government spent in its canals before a dollar's worth of commerce could adequately utilize them. No commercial enterprise in the world can tell a similar story of faith and confidence in itself. The placing of 14 ft. as the maximum depth for the canals seems strange in the light of today; but it must be remembered that when the system of canals was designed it was supposed that a 14 ft. waterway would be ample for all time upon the great lakes. The depth which at that time vessel men were looking forward to upon the lakes was a uniform one of 12 ft. The great steel carrier was not even a dream then of the most daring of minds.

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### CHECKING UP COURSES

By Charles A. Benham

The following is a good and reliable method of checking up courses, when from the state of the weather or sun bearings cannot be taken, with the "polaris."

#### Courses On Lake Superior Using Soo River Ranges

Iroquois Pt. to Whitefish Pt.—Port  $\frac{1}{8}$  point from course on head of St. Mary's river range.

Whitefish Pt. to Copper Harbor—Same as Bayfield Rock Range.

Eagle Harbor to Devil Island—Starboard  $\frac{1}{4}$  point from course on St. Mary's River Lower Range.

Eagle Harbor to La Pointe—Port  $\frac{5}{8}$  point from course on Pt. Aux Pins Range.

Devil Island to Duluth—Port  $\frac{1}{2}$  point from course shown on Pt. Aux Pins Range.



Devil Island to Two Harbors—Port  $\frac{3}{8}$  point from course shown on St. Mary's River lower range.

Whitefish Point to Passage Island—Port  $\frac{1}{8}$  point from course shown with Round Island Range over stern.

Whitefish Point to Battle Island—Port  $\frac{1}{8}$  point from course with Upper St. Mary's River over stern.

Whitefish Point to Pt. Au Sable—Port  $\frac{1}{2}$  point from course with Vidal Shoal over stern.

Pt. Au Sable to Marquette—Starboard  $\frac{1}{8}$  point from course shown with Vidal Shoal Range over stern.

Whitefish Point to Huron Island—Port  $1\frac{1}{2}$  points from course shown with Vidal Shoal Range over stern.

Huron Island to Portage Entry—Port  $\frac{1}{4}$  point from course shown with Vidal Shoal Range over stern.

Portage Ship Canal to Devil Island—Port  $\frac{3}{8}$  point from course shown with St. Mary's River lower range over stern.

Portage Ship Canal to La Point—Port  $\frac{1}{4}$  point from course shown when heading on Pt. Au Pins Range.

Passage Island to Thunder Cap—Port  $\frac{1}{4}$  point from course shown with Vidal Shoal Range over stern.

### Courses On Lake Huron Using "Soo" River Ranges

Detour to Middle Island—Port  $\frac{1}{4}$  point from course shown with Frechette Pt. range over stern.

Middle Island to Sand Beach—Starboard  $\frac{1}{8}$  point from course shown with Middle Hay Lake range over stern.

Sand Beach to Lake Huron Light Ship—Starboard  $\frac{3}{8}$  point from course shown with Frying Pan and Pipe Island in range over stern.

Nine Mile Pt. to Presque Isle—Starboard  $\frac{1}{2}$  point from course shown heading on Bayfield Rock range.

Detour to St. Martins Reef—Same course as steered with Vidal Shoal over stern.

St. Martin's Reef to Round Island—Port  $\frac{1}{2}$  point from course shown with Vidal Shoal over stern.

Detour to Ducks—Port  $\frac{1}{4}$  point from course shown heading on St. Mary's River Upper Range.

Ducks to Cove Island—Starboard  $\frac{1}{8}$  point from course shown when on Bayfield Rock Range.

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Pces Reef to Cove Island—Starboard  $\frac{1}{8}$  point from course shown with Flower Pot and Cove Island in range ahead.

### Compass Courses on Lake Michigan, Using Known Ranges

From Pt. Betsies to Chicago—Port  $\frac{1}{2}$  point from course steered through No. 2 cut in West Neebish bound down.

From Door to Chicago—Starboard  $\frac{1}{4}$  point from course steered through No. 2 cut in West Neebish bound down.

From Gray's Reef to North Manitou—Port  $\frac{3}{8}$  point from course shown with Gray's Reef Light Vessel and White Shoal in range over stern; or starboard  $\frac{1}{8}$  point from course heading on range of Chicago Water Works Crib and Chicago Pierhead.

Chicago to Pt. Betsies'—Port  $\frac{3}{8}$  point from course shown with S. E., Breakwater and Chicago Water Works Crib in range over stern.

Chicago to Door—Starboard  $\frac{1}{4}$  point from range of S. E. Breakwater and Chicago Water Works Crib.

From Pt. to Milwaukee—Starboard  $\frac{1}{4}$  point from range of Gray's Reef and White Shoal.

### Compass Courses On Lake Erie, Using Known Ranges

Buffalo to Erie—Same as range of pierhead light and town clock.

Buffalo to Fairport—Port  $\frac{1}{2}$  point from above range.

Buffalo to Long Point and S. E. Shoal—Starboard  $\frac{1}{4}$  point from St. Mary's River lower range.

S. E. Shoal to Middle Gd.—Port  $\frac{1}{2}$  point from course on St. Mary's River upper range.

Middle Gd. to Bar Pt. Gas Buoy—Starboard  $\frac{3}{4}$  point from Bayfield Rock range.

Bar Pt. to Toledo Light—Port  $\frac{1}{2}$  point course on Grassy Island North Channel range.

S. E. Shoal to Cleveland—Starboard  $\frac{1}{8}$  point from course on St. Mary's River upper range.

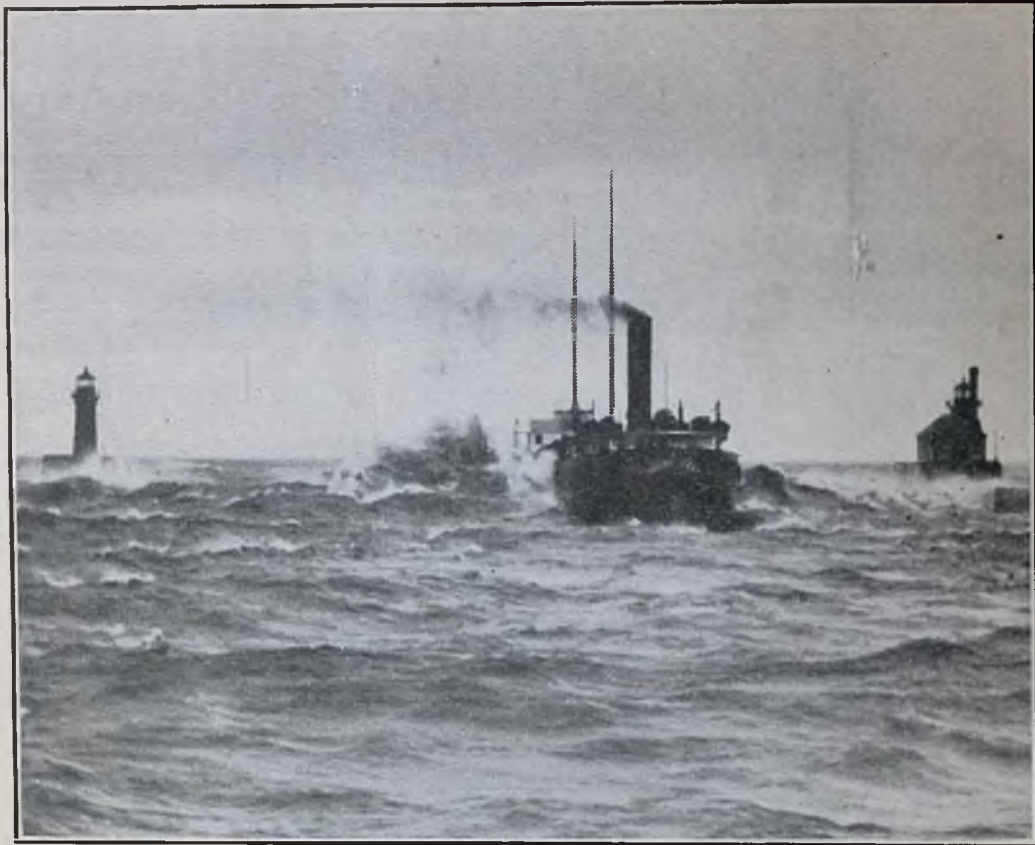
S. E. Shoal to Lorain—Port  $\frac{1}{4}$  point from course shown with Frechette range over stern.

S. E. Shoal to Cleveland—Starboard  $\frac{1}{8}$  point from course shown heading on St. Mary's River upper range.

S. E. Shoal to Erie—Port  $\frac{1}{8}$  point from course shown when on Vidal Shoal range.

S. E. Shoal to Ashtabula—Port  $\frac{3}{4}$  point from course shown when on Vidal Shoal range.

S. E. Shoal to Conneaut—Port  $\frac{5}{8}$  point from course shown when on Vidal Shoal range.



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MAP SHOWING THE CANALS ON THE MONTREAL, OTTAWA AND RICHELIEU RIVERS INCLUDING THE NEW SOULANGES CANAL. AND TABLE OF DISTANCES.

Between Lake Erie and the sea there are seven Dominion canals, exclusive of the Beauharnois. They are the Welland, Galops, Rapide Plat, Farran's Point, Cornwall, Soulanges and Lachine. Their aggregate length is 70½ miles; the number of locks is fifty-three and the total lockage (or height directly overcome by locks) is 533 feet and 3 inches. The Welland canal, which has for several years past been of 14 feet navigation, and which extends from Port Colborne on Lake Erie to Port Dalhousie on Lake Ontario, is not shown in the illustration. The general scheme of canal enlargement now completed affected all the canals. None of the locks had the required depth and none had the desired dimensions of 270 feet in length and 45 feet in width. With the completion of the Soulanges canal the desired end was accomplished.

# Harvey L. Brown

Proctor in Admiralty

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### AZIMUTHS—A Correction of Compass Courses

(Contributed by Mr. Arthur Dovale, Nautical Expert, Cleveland)

The United States hydrographic office recommends the use of the azimuth tables to ascertain the error of the compass as a handy method and one that will assist in relieving the masters of vessels of great responsibility. The only book absolutely necessary for working azimuths are the "Azimuth Tables" (H. O. No. 106, price 50 cents). It is also necessary to have the equation of time and the declination, which can be found in the weekly "Notices to Mariners." These notices are distributed free of charge by the branch hydrographic offices. Better than these notices, however, for working azimuths is a copy of "The Sun's Apparent Declination and Equation of Time" (H. O. No. 118, price 10 cents), as it is good for a whole year, and also has tables for reducing standard time to local mean time. The following examples will cover all cases required on the Great Lakes:

#### Example No. 1

We will say that we are off Duluth on August 4, 1901, in latitude  $46^{\circ} 45'$  N., longitude  $92^{\circ} 7'$  W., variation  $8^{\circ}$  Ely. (The foregoing can all be found from a chart). Ship heading E. x N. We then take the bearing of the sun (by the same compass as we took the ship's heading) to be N.  $78^{\circ} 30'$  E. and note the exact time by watch, set at say 90th meridian (central standard) time and find it to be 7h. 38m., a. m.

Time of observation	7h 38m 00s	(90th meridian)
Correction for longitude—	8 28	(from table III, H. O. No. 118)
Local mean time	7 29 32	
Equation of time	— 5 55	(from table I, H. O. No. 118)
Local apparent time	7 23 37	

From table I, (H. O. No. 118) we find that the sun's declination for August 4 is N.  $17^{\circ} +$ , which is of the same name as our latitude, therefore, we look for latitude  $47^{\circ}$  (as  $46^{\circ} 45'$  is nearer  $47^{\circ}$  than  $46^{\circ}$ ) and find it on page 107 (H. O. No. 106); then under the column marked  $17^{\circ}$  and opposite 7h 30m, we find the sun's true bearing.

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	=N. 94° 25' E., and opposite 7h 20m, we
find the sun's true bearing	=N. 92 32 E.
Difference for 10 minutes	= 1° 53' = 60' + 53' = 113'
Difference for 1 minute	= 11.3'
Difference for 3½ minutes	= 11.3' x 3.5' = 40'
Sun's true bearing for 7h 20m	=N. 92° 32' E.
Correction for 3½ minutes	=+ 40
Sun's true bearing for 7h 23m 37s	=N. 93 12 E.
Variation	=- 8 Ely (See note "A")
Sun's magnetic bearing	=N. 85 12 E.
Sun's compass bearing	=N. 78 30 E.
Deviation for E.xN. course	= 6° 42' Ely (See note "B")

Note "A"—Since the magnetic north is 8° east of the true north, the sun's magnetic bearing must be 8° less than its true bearing.

Note "B"—Since there are a less number of degrees and minutes from the sun's bearing to the compass north than from the sun's bearing to the magnetic north, the compass north must be to the east of the magnetic north; hence the easterly deviation. Had the compass bearing of the sun been N. 92° 18' E then the compass north would have been 7° 06' W. of the magnetic north and we would have had 7° 06' W. deviation.

### EXAMPLE No. 2

Off Cleveland, O., Dec. 31, 1901.

Latitude, 41° 30' N., longitude, 81° 40' W., variation, 2° 11' Wly.  
Ship heading, S. S. W.; sun's bearing, N. 129° 36' W.; time, 3h. 20m. p. m. (90th meridian).

Time of observation..3h 20 00s p. m.

Cor. for long. .... + 33 20 (from table III, H. O. No. 118)

L. M. T..... 3 53 20

Eq. of time..... - 2 57 (from table I, H. O. No. 118)

L. A. T..... 3h 50m 23s

From table I, (H. O. No. 118) we find that the sun's declination for Dec. 31 is S. 23° +, which is of opposite name to our latitude; therefore, we look on page 179, or 180, of H. O. No. 106, and in the column marked 23° + at the top.

BELL NORTH 1368-M

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and opposite 3h 50m, we find S. T. B. = N. 128° 35' W.

“ “ 4h 00m, we find S. T. B. = N. 126° 49' W.

Diff. for 10 minutes	=	1° 46'	= 60' + 46' = 106'
Diff. for 1 minute	=		10.6'
Diff. for 23 sec., or 2-5 minutes	=	10.6x2-5=4'	
so that we have, S. T. B. for 3h 50m	=	N. 128° 35' W.	
Cor. for 23s	=	— 4'	
S. T. B. for 3h 50m 23s	=	N. 128° 31' W.	
Variation (see Note A)	=	— 2 11 Wly.	
Sun's mag. bearing	=	N. 126° 20' W.	
Sun's comp. bearing	=	N. 129° 36' W.	
Dev. for course S. S. W.	=	3° 16' Ely.	

Note “A”—Since the magnetic north is 2° 11' west of the true north, the sun's magnetic bearing must be 2° 11' less than its true bearing.

Note “B”—Since there are a greater number of degrees and minutes from the sun to the compass north, than from the sun to the magnetic north, we have easterly deviation.

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## BAROMETER READINGS

This table of Barometer Readings and the weather indicated is contributed by Capt. C. W. Watson, who says that he has used it for five years and has found that nine times out of ten it can be depended upon.

### Wind Barometer Tables for the Great Lakes

Height of Barometer Lake Level	Direction of Wind	Character of Wind and Weather Indicated
29.40 to 29.60 and steady	West	Fair, slight changes in Temperature, gentle to fresh winds.
29.40 to 29.60 rising	West	Fair, cooler, fresh west to northwest winds.
29.40 to 29.60 falling	South	Warmer, increasing southerly winds.
29.60 or above falling rapidly	East to South	Warmer, rain or snow within 36 hours, increasing east to southeast winds.
29.60 or above rising rapidly	West to North	Cool and clear, quickly followed by warmer variable winds.
29.60 or above steady	Variable	No immediate change but wind will go to south inside of 36 hours.
29.40 or below falling slowly	South to East	Rain or snow, increasing easterly winds.
29.40 or below falling rapidly	South to East	Rain or snow, high easterly winds, followed within 48 hours by clearing, cooler west to northwest winds.
29.40 or below rising slowly	South to West	Clearing, colder, fresh to brisk west to northwest winds.
29.20 or below falling rapidly	South to East	Severe storm of wind and rain, wind shifting to northwest within 36 hours.
29.20 or below falling rapidly	East to North	Severe northeaster, with heavy rain or snow, and winds backing to northwest.
29.20 or below rising rapidly	Going to West	Clearing and cooler, probably cold wave in winter.

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Geographical or statute mile	Nautical or sea mile	Geographical or statute mile	Nautical or sea mile	Geographical or statute mile	Nautical or sea mile	Geographical or statute mile	Nautical or sea mile
1.00	0.868	8.00	6.947	15.00	13.026	22.00	29.105
1.25	1.085	8.25	7.164	15.25	14.243	22.25	19.322
1.50	1.302	8.50	7.381	15.50	13.460	22.50	19.539
1.75	1.519	8.75	7.598	15.75	13.677	22.75	19.756
2.00	1.736	9.00	7.815	16.00	13.894	23.00	19.973
2.25	1.953	9.25	8.032	16.25	14.111	23.25	20.190
2.50	2.171	9.50	8.250	16.50	14.328	23.50	20.407
2.75	2.388	9.75	8.467	16.75	14.546	23.75	20.625
3.00	2.605	10.00	8.684	17.00	14.763	24.00	20.842
3.25	2.822	10.25	8.901	17.25	14.980	24.25	21.059
3.50	3.039	10.50	9.118	17.50	15.197	24.50	21.276
3.75	3.256	10.75	9.335	17.75	15.414	24.75	21.493
4.00	3.473	11.00	9.552	18.00	15.631	25.00	21.710
4.25	3.690	11.25	9.769	18.25	15.848	25.25	21.927
4.50	3.907	11.50	9.986	18.50	16.065	25.50	22.144
4.75	4.125	11.75	10.203	18.75	16.282	25.75	22.361
5.00	4.342	12.00	10.421	19.00	16.500	26.00	22.578
5.25	4.559	12.25	10.638	19.25	16.717	26.25	22.796
5.50	4.776	12.50	10.855	19.50	16.934	26.50	23.013
5.75	4.993	12.75	11.072	19.75	17.151	26.75	23.230
6.00	5.210	13.00	11.289	20.00	17.368	27.00	23.447
6.25	5.427	13.25	11.506	20.25	17.585	27.25	23.664
6.50	5.644	13.50	11.723	20.50	17.802	27.50	23.881
6.75	5.861	13.75	11.940	20.75	18.019	27.75	24.098
7.00	6.078	14.00	12.157	21.00	18.236	28.00	24.315
7.25	6.296	14.25	12.375	21.25	18.453	28.25	24.532
7.50	6.513	14.50	12.592	21.50	18.671	28.50	24.750
7.75	6.730	14.75	12.809	21.75	18.888	29.00	25.184

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CONVERSION OF NAUTICAL OR SEA MILES INTO GEOGRAPHICAL OR STATUTE MILES

Statute Mile, 5,280 ft.; Nautical Mile, 6,080 ft.

(Prepared by Capt. Henry Leisk, Milwaukee)

Nautical or sea mile	Geographical or statute mile	Nautical or sea mile	Geographical or statute mile	Nautical or sea mile	Geographical or statute mile	Nautical or sea mile	Geographical or statute mile
1.00	1.151	7.00	8.060	13.00	14.969	19.00	21.878
1.25	1.439	7.25	8.348	13.25	15.257	19.25	22.166
1.50	1.729	7.50	8.636	13.50	15.545	19.50	22.454
1.75	2.015	7.75	8.924	13.75	15.833	19.75	22.742
2.00	2.303	8.00	9.212	14.00	16.121	20.00	23.030
2.25	2.590	8.25	9.500	14.25	16.409	20.25	23.318
2.50	2.878	8.50	9.787	14.50	16.696	20.50	23.606
2.75	3.166	8.75	10.075	14.75	16.984	20.75	23.893
3.00	3.454	9.00	10.393	15.00	17.272	21.00	24.181
3.25	3.742	9.25	10.675	15.25	17.560	21.25	24.469
3.50	4.230	9.50	10.939	15.50	17.848	21.50	24.757
3.75	4.318	9.75	11.227	15.75	18.136	21.75	25.045
4.00	4.606	10.00	11.515	16.00	18.424	22.00	25.333
4.25	4.893	10.25	11.803	16.25	18.712	22.25	25.621
4.50	5.181	10.50	12.090	16.50	18.999	22.50	25.909
4.75	5.469	10.75	12.378	16.75	19.287	22.75	26.196
5.00	5.757	11.00	12.666	17.00	19.575	23.00	26.484
5.25	6.045	11.25	12.954	17.25	19.863	23.25	26.772
5.50	6.333	11.50	13.242	17.50	20.151	23.50	27.060
5.75	6.621	11.75	13.530	17.75	20.439	23.75	27.348
6.00	6.909	12.00	13.818	18.00	20.727	24.00	27.636
6.25	7.196	12.25	14.106	18.25	21.015	24.25	27.924
6.50	7.484	12.50	14.393	18.50	21.303	24.50	28.212
6.75	7.772	12.75	14.681	18.75	21.590	25.00	28.787

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UNITED STATES HYDROGRAPHIC OFFICE

The United States Hydrographic office, navy department, Washington, D. C, maintains branch offices on the great lakes as follows: Buffalo, Post Office Building; Sault Ste. Marie, 17 Federal Building; Duluth, 1000 Torrey Building.

Masters of vessels are invited to call on arrival in port. Nautical charts and sailing directions on hand for inspection by the shipping public. Information affecting nautical charts regularly received. Nautical inquiries are investigated and answered. "Notices to Mariners," "U. S. Light Lists," and other periodical publications are distributed. Barometers are compared. All services are free.

Captains are earnestly requested to cooperate with the branch hydrographic offices in their work of collecting and distributing information useful to lake marines, by sending to them reports of buoys adrift, lights or gas buoys not lighted, shoals, wrecks, or any other dangers to navigation.

CARRYING MEMBERS AS MATES

The following resolution presented by Marine City Lodge was adopted by the Grand Lodge Ship Masters' Association, at its annual meeting in Buffalo, January, 1910:

Whereas, Several members of this Association serve in the capacity of mate during the sailing season.

Therefore, Be it Resolved, That members who are masters of ships, when in need of a mate, give a member of this Association the preference when it can be done, all things being equal.

SIGNALS—DECK AND ENGINE ROOM

Rules and regulations of the United States steamboat inspection service relating to starting, stopping and backing signals for the Great Lakes provide that there shall be used between the master or pilot and engineer the following code of signals, to be made by bell or whistle, namely:

- 1 whistle or 1 bell ..... Go ahead
- 1 whistle or 1 bell ..... Stop
- 2 whistles or 2 bells ..... Back
- 3 whistles or 3 bells ..... Check
- 4 whistles or 4 bells ..... Strong
- 4 whistles or 4 bells ..... All right

Two whistles or two bells shall always mean back, irrespective of other signals previously given.

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Phone 118

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## WIND SIGNALS ON LAKE SUPERIOR

Winds expected for the western end of Lake Superior are announced by whistle signals of the United States weather bureau. Signals are blown daily at 10 a. m. by the whistle of elevator "E," Duluth, Minn. The Imperial Mills, Duluth, Minn., also blow these signals at 10 p. m. during the navigation season, whenever the information then at hand is of special importance to vesselmen.

Force of Wind—Light (1 to 5 miles per hour) 1 long whistle; fresh (6 to 14 miles per hour), 2 long whistles; brisk (15 to 24 miles per hour), 3 long whistles; high (25 miles and upwards per hour), 4 long whistles; north, northeast, east, 1 short whistle; southeast, south, 2 short whistles; southwest, west, northwest, 3 short whistles; variable, 4 short whistles.

Duration of whistles: Short, 2 seconds; long, 6 seconds.

Examples: For "brisk northwest winds" there is blown first a prolonged "attention" whistle; then three long and three short whistles. For "light northeast shifting to brisk westerly winds" the "attention" whistle is blown first and then one long, one short, three long, three short.

## BRIDGE SIGNALS

## Buffalo, N. Y.

Michigan and Ohio street bridges over Buffalo creek, South  
Michigan street bridge over City Ship (Blackwell) canal,  
Ohio basin slip bridge and Evans slip bridge ..... 3 blasts  
Hamburg turnpike and B. C. R. R. bridges, upper end of city  
ship (Blackwell) canal ..... 3 long 3 short  
International bridge, Niagara river ..... 1 long  
Ferry street bridge, Black Rock harbor ..... 3 blasts  
International bridge, Black Rock harbor ..... 1 long

## Tonawanda, N. Y.

Tonawanda island bridge and Tonawanda creek bridge ..... 3 blasts

## Ashtabula, O.

Ashtabula bridges; county highway and L. S. & M. S. Ry. .... 1 long

## Cleveland, O.

L. S. & M. S. Ry. bridge ..... 1 long 2 short  
Old River bed bridges ..... 1 long 1 short 1 long 1 short  
Main street bridge ..... 2 long blasts  
Superior street viaduct ..... 3 long blasts  
Valley Ry. bridge and all others above it in the main  
river ..... 1 long 2 short 1 long

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BOTH PHONES

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CLEVELAND, OHIO



**Lorain, O.**

City bridge .....	1 long 2 short
N. Y. C. & St. L. Ry. bridge .....	3 long

**Toledo, O.**

All bridges in main river .....	3 blasts
Dayton slip bridge .....	long short long short
Swan Creek—	
L. S. & M. S. Ry. and Perry street bridge .....	long short long
St. Clair street bridge .....	1 long 2 short
Erie street bridge .....	3 long
Clover Leaf Ry. bridge .....	3 long

**Duluth, Minn.**

When approaching aerial bridge over Duluth Canal .....	3 short
Interstate bridge .....	1 long 1 short 1 long
Minnesota draw, Northern Pacific bridge .....	1 long 2 short
Wisconsin draw, Northern Pacific bridge .....	2 long 2 short
Grassy Point bridge .....	2 short 1 long
Lamborn Ave. bridge .....	3 short
New Duluth transfer bridge .....	3 long

**Chicago, Ill.**

Chicago Revised Code prescribes 3 short for Chicago river and branches and Calumet river. By local custom 4 short are sounded going northward only for C. & N. W. Ry. bridge at Kinzie street and for C., M. & St. P. Ry. bridge at North avenue.

**Milwaukee, Wis.**

In Milwaukee 3 short whistles is the general bridge signal. There is excepted from this the bridge across the Menominee river at the foot of West Water street, and also the railroad bridge about a half block east of the West Water street bridge, as well as the bridge of the Chicago & Northwestern Ry. company across the Kinnickinnic, between Kinnickinnic avenue and Clinton street. For these exceptions the signal is four short blasts. Another exception is the Point street bridge, entrance to Green Bay canal, for which the signal is two short blasts.

**Green Bay, Wis.****Fox River—**

Main street .....	2 short 1 long
Walnut street .....	1 long 2 short
Mason street .....	1 long 1 short 1 long
Railroad and East River bridges .....	3 long

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ST. CLAIR, MICH.

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ST. CLAIR, MICH.



## AN ORDINANCE

## Regulating the Harbor and City Bridges in the City of Toledo

Be it Ordained by the Council of the City of Toledo, State of Ohio:

Section 1. It shall be unlawful for any person or persons to propel, or cause to be propelled, any boat on the Maumee river inside the City Limits of the City of Toledo, at a rate of speed exceeding Six Miles per hour. The provisions of this section shall not be construed as applying to passenger boats, sand-suckers or tugs. The speed of the boats herein mentioned shall not exceed Eight Miles per hour.

Section 2. It shall be unlawful for any person or persons to cause any boat to tow more than one boat at a time through any draw-bridge in the City of Toledo.

Section 3. No bridge draw shall be opened for boats that are not propelled by power, unless they are towed by a power boat.

Section 4. The provisions of Sections 1, 2 and 3 hereof shall not be construed as applying to gasoline power boats and yachts, and the provision of Section 2 hereof shall not be construed as applying to scows.

Section 5. All city bridges shall be closed to navigation from the hours of 6:30 a. m. to 7:30 a. m., and from 5 p. m. to 6 p. m.

Section 6. Any person violating any of the provisions of Section 1 or Section 2 hereof, shall be guilty of a misdemeanor, and, upon conviction thereof, shall be fined not to exceed Three Hundred Dollars.

Section 7. This ordinance shall take effect and be in force from and after the earliest period allowed by law.

Passed May 20th, 1912.

On and after July 15th, 1912, this ordinance will be enforced by order of A. W. Boardman, Director of Public Service.

A. W. Boardman,  
Director of Public Service.

John Dunseith,  
Supt. of Bridges.

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Ship Building and Dry Dock  
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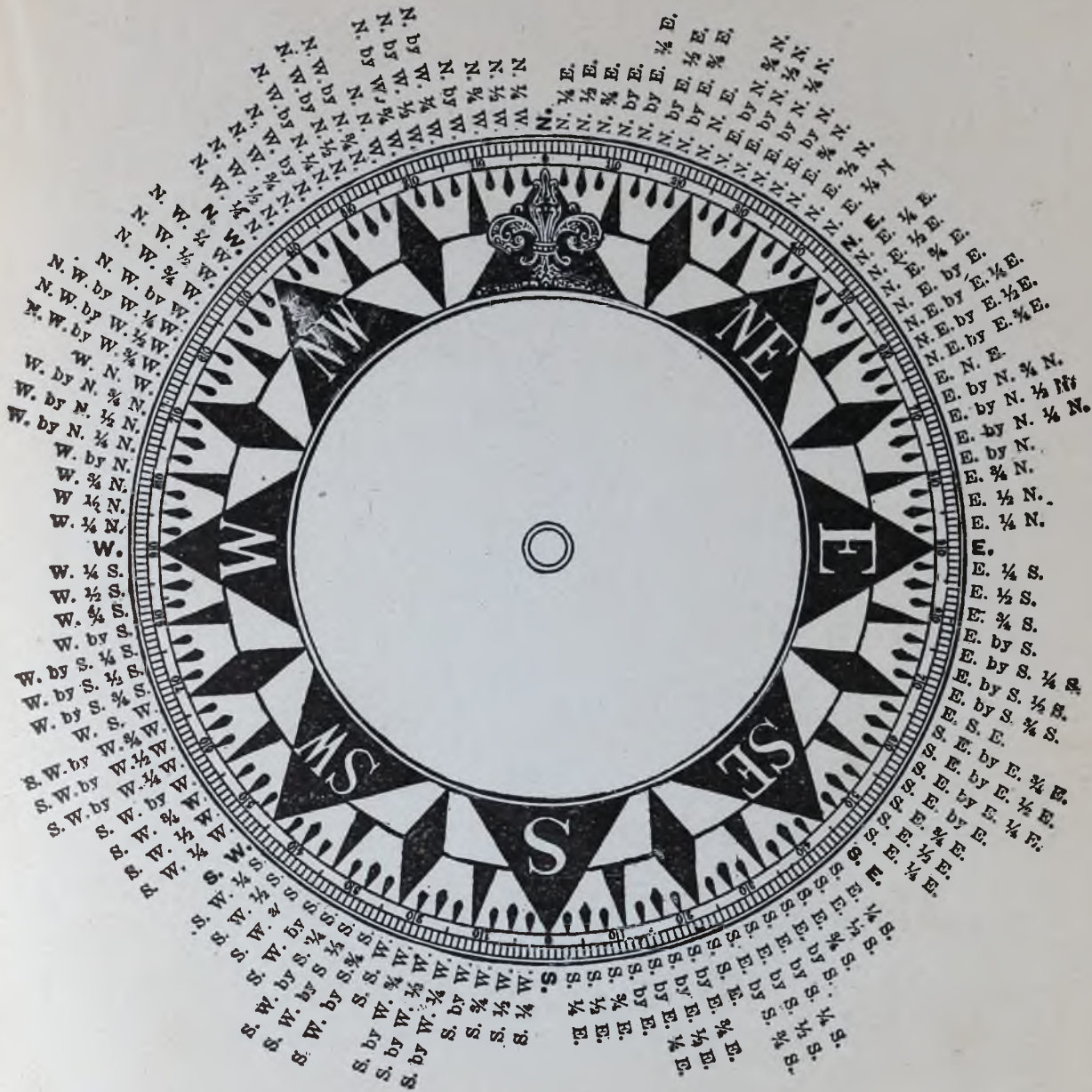
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THE COMPASS

The Chinese claim to have invented the Compass in the year 2634 B. C., but the earliest date that they appear to have used it at sea was about 300 A. D.

The Italians have always contended that Flavio Gioza of Amalfa, Italy, invented the Compass in the year 1362 A. D., but it has been proven that the Compass was well known as a nautical instrument long before that date.



THE SHIP MASTERS' ASSOCIATION

o	POINTS	o	POINTS	o	POINTS	o	POINTS
0 09	N	45 00	NE	90 00	E	135 00	SE
0 42		45 42		90 42		135 42	
1 24	N 1/8 E	46 24	NE 1/8 E	91 24	E 1/8 S	136 24	SE 1/8 S
2 07		47 07		92 07		137 07	
2 49	N 1/4 E	47 49	NE 1/4 E	92 49	E 1/4 S	137 49	SE 1/4 S
3 31		48 31		93 31		138 31	
4 13	N 3/8 E	49 13	NE 3/8 E	94 13	E 3/8 S	139 13	SE 3/8 S
4 55		49 55		94 55		139 55	
5 38	N 1/2 E	50 38	NE 1/2 E	95 38	E 1/2 S	140 38	SE 1/2 S
6 20		51 20		96 20		141 20	
7 02	N 5/8 E	52 02	NE 5/8 E	97 02	E 5/8 S	142 02	SE 5/8 S
7 44		52 44		97 44		142 44	
8 26	N 3/4 E	53 26	NE 3/4 E	98 26	E 3/4 S	143 26	SE 3/4 S
9 08		54 08		99 08		144 08	
9 51	N 7/8 E	54 51	NE 7/8 E	99 51	E 7/8 S	144 51	SE 7/8 S
10 33		55 33		100 33		145 33	
11 15	N x E	56 15	NE x E	101 15	E x S	146 15	SE x S
11 57		56 57		101 57		146 57	
12 39	N x E 1/8 E	57 39	NE x E 1/8 E	102 39	ESE 7/8 E	147 39	SSE 7/8 E
13 22		58 22		103 22		148 22	
14 04	N x E 1/4 E	59 04	NE x E 1/4 E	104 04	ESE 3/4 E	149 04	SSE 3/4 E
14 46		59 46		104 46		149 46	
15 28	N x E 3/8 E	60 28	NE x E 3/8 E	105 28	ESE 5/8 E	150 28	SSE 5/8 E
16 10		61 10		106 10		151 10	
16 53	N x E 1/2 E	61 53	NE x E 1/2 E	106 53	ESE 1/2 E	151 53	SSE 1/2 E
17 35		62 35		107 35		152 35	
18 17	N x E 5/8 E	63 17	NE x E 5/8 E	108 17	ESE 3/8 E	153 17	SSE 3/8 E
18 59		63 59		108 59		153 59	
19 41	N x E 3/4 E	64 41	NE x E 3/4 E	109 41	ESE 1/4 E	154 41	SSE 1/4 E
20 23		65 23		110 23		155 23	
21 06	N x E 7/8 E	66 06	NE x E 7/8 E	111 06	ESE 1/8 E	156 06	SSE 1/8 E
21 48		66 48		111 48		156 48	
22 30	NNE	67 30	ENE	112 30	ESE	157 30	SSE
23 12		68 12		113 12		158 12	
23 54	NNE 1/8 E	68 54	ENE 1/8 E	113 54	SE x E 7/8 E	158 54	S x E 7/8 E
24 37		69 37		114 37		159 37	
25 19	NNE 1/4 E	70 19	ENE 1/4 E	115 19	SE x E 3/4 E	160 19	S x E 3/4 E
26 01		71 01		116 01		161 01	
26 43	NNE 3/8 E	71 43	ENE 3/8 E	116 43	SE x E 5/8 E	161 43	S x E 5/8 E
27 25		72 25		117 25		162 25	
28 08	NNE 1/2 E	73 08	ENE 1/2 E	118 08	SE x E 1/2 E	163 08	S x E 1/2 E
28 50		73 50		118 50		163 50	
29 32	NNE 5/8 E	74 32	ENE 5/8 E	119 32	SE x E 3/8 E	164 32	S x E 3/8 E
30 14		75 14		120 14		165 14	
30 56	NNE 3/4 E	75 56	ENE 3/4 E	120 56	SE x E 1/4 E	165 56	S x E 1/4 E
31 38		76 38		121 38		166 38	
32 21	NNE 7/8 E	77 21	ENE 7/8 E	122 21	SE x E 1/8 E	167 21	S x E 1/8 E
33 03		78 03		123 03		168 03	
33 45	NE x N	78 45	E x N	123 45	SE x E	168 45	S x E
34 27		79 27		124 27		169 27	
35 09	NE 7/8 N	80 09	E 7/8 N	125 09	SE 7/8 E	170 09	S 7/8 E
35 52		80 52		125 52		170 52	
36 34	NE 3/4 N	81 34	E 3/4 N	126 34	SE 3/4 E	171 34	S 3/4 E
37 16		82 16		127 16		172 16	
37 58	NE 5/8 N	82 58	E 5/8 N	127 58	SE 5/8 E	172 58	S 5/8 E
38 40		83 40		128 40		173 40	
39 23	NE 1/2 N	84 23	E 1/2 N	129 23	SE 1/2 E	174 23	S 1/2 E
40 05		85 05		130 05		175 05	
40 47	NE 3/8 N	85 47	E 3/8 N	130 47	SE 3/8 E	175 47	S 3/8 E
41 29		86 29		131 29		176 29	
42 11	NE 1/4 N	87 11	E 1/4 N	132 11	SE 1/4 E	177 11	S 1/4 E
42 53		87 53		132 53		177 53	
43 36	NE 1/8 N	88 36	E 1/8 N	133 36	SE 1/8 E	178 36	S 1/8 E
44 18		89 18		134 18		179 18	



°	POINTS	°	POINTS	°	POINTS	°	POINTS
180 00	S	225 00	SW	270 00	W	315 00	NW
180 42		225 42		270 42		315 42	
181 24	S 1/8 W	226 24	SW 1/8 W	271 24	W 1/8 N	316 24	NW 1/8 N
182 07		227 07		272 07		317 07	
182 49	S 1/4 W	227 49	SW 1/4 W	272 49	W 1/4 N	317 49	NW 1/4 N
183 31		228 31		273 31		318 31	
184 13	S 3/8 W	229 13	SW 3/8 W	274 13	W 3/8 N	319 13	NW 3/8 N
184 55		229 55		274 55		319 55	
185 38	S 1/2 W	230 38	SW 1/2 W	275 38	W 1/2 N	320 38	NW 1/2 N
186 20		231 20		276 20		321 20	
187 02	S 5/8 W	232 02	SW 5/8 W	277 02	W 5/8 N	322 02	NW 5/8 N
187 44		232 44		277 44		322 44	
188 26	S 3/4 W	233 26	SW 3/4 W	278 26	W 3/4 N	323 26	NW 3/4 N
189 08		234 08		279 08		324 08	
189 51	S 7/8 W	234 51	SW 7/8 W	279 51	W 7/8 N	324 51	NW 7/8 N
190 33		235 33		280 33		325 33	
191 15	S x W	236 15	SW x W	281 15	W x N	326 15	NW x N
191 57		236 57		281 57		326 57	
192 39	S x W 1/8 W	237 39	SW x W 1/8 W	282 39	WNW 1/8 W	327 39	NNW 1/8 W
193 22		238 22		283 22		328 22	
194 04	S x W 1/4 W	239 04	SW x W 1/4 W	284 04	WNW 1/4 W	329 04	NNW 1/4 W
194 46		239 46		284 46		329 46	
195 28	S x W 3/8 W	240 28	SW x W 3/8 W	285 28	WNW 3/8 W	330 28	NNW 3/8 W
196 10		241 10		286 10		331 10	
196 53	S x W 1/2 W	241 53	SW x W 1/2 W	286 53	WNW 1/2 W	331 53	NNW 1/2 W
197 35		242 35		287 35		332 35	
198 17	S x W 5/8 W	243 17	SW x W 5/8 W	288 17	WNW 5/8 W	333 17	NNW 5/8 W
198 59		243 59		288 59		333 59	
199 41	S x W 3/4 W	244 41	SW x W 3/4 W	289 41	WNW 3/4 W	334 41	NNW 3/4 W
200 23		245 23		290 23		335 23	
201 06	S x W 7/8 W	246 06	SW x W 7/8 W	291 06	WNW 7/8 W	336 06	NNW 7/8 W
201 48		246 48		291 48		336 48	
202 30	SSW	247 30	WSW	292 30	WNW	337 30	NNW
203 12		248 12		293 12		338 12	
203 54	SSW 1/8 W	248 54	WSW 1/8 W	293 54	NW x W 1/8 W	338 54	N x W 1/8 W
204 37		249 37		294 37		339 37	
205 19	SSW 1/4 W	250 19	WSW 1/4 W	295 19	NW x W 1/4 W	340 19	N x W 1/4 W
206 01		251 01		296 01		341 01	
206 43	SSW 3/8 W	251 43	WSW 3/8 W	295 43	NW x W 3/8 W	341 43	N x W 3/8 W
207 25		252 25		297 25		342 25	
208 08	SSW 1/2 W	253 08	WSW 1/2 W	298 08	NW x W 1/2 W	342 08	N x W 1/2 W
208 50		253 50		298 50		343 50	
209 32	SSW 5/8 W	254 32	WSW 5/8 W	299 32	NW x W 5/8 W	344 32	N x W 5/8 W
210 14		255 14		300 14		345 14	
210 56	SSW 3/4 W	255 56	WSW 3/4 W	300 56	NW x W 3/4 W	345 56	N x W 3/4 W
211 38		256 38		301 38		346 38	
212 21	SSW 7/8 W	257 21	WSW 7/8 W	302 21	NW x W 7/8 W	347 21	N x W 7/8 W
213 03		258 03		303 03		348 03	
213 45	SW x S	258 45	W x S	303 45	NW x W	348 45	N x W
214 27		259 27		304 27		349 27	
215 09	SW 1/8 S	260 09	W 1/8 S	305 09	NW 1/8 W	350 09	N 1/8 W
215 52		260 52		305 52		350 52	
216 34	SW 1/4 S	261 34	W 1/4 S	306 34	NW 1/4 W	351 34	N 1/4 W
217 16		262 16		307 16		352 16	
217 58	SW 3/8 S	262 58	W 3/8 S	307 58	NW 3/8 W	352 58	N 3/8 W
218 40		263 40		308 40		353 40	
219 23	SW 1/2 S	264 23	W 1/2 S	309 23	NW 1/2 W	354 23	N 1/2 W
220 05		265 05		310 05		355 05	
220 47	SW 5/8 S	265 47	W 5/8 S	310 47	NW 5/8 W	355 47	N 5/8 W
221 29		266 29		311 29		356 29	
222 11	SW 3/4 S	267 11	W 3/4 S	312 11	NW 3/4 W	357 11	N 3/4 W
222 53		267 53		312 53		357 53	
223 36	SW 7/8 S	268 36	W 7/8 S	313 36	NW 7/8 W	358 36	N 7/8 W
224 18		269 18		314 18		359 18	



TABLE FOR CONVERTING COMPASS COURSES INTO DEGREES, MINUTES AND SECONDS

(A Favor from Frank Henrich, Nautical Expert, Duluth)

Points	Number	Degrees			Number	Points
North		0	'	"		South
	0	0	0	0	0	
	1/8	1	24	22	1/8	
	1/4	2	48	45	1/4	
	3/8	4	13	07	3/8	
	1/2	5	37	30	1/2	
	5/8	7	01	52	5/8	
	3/4	8	26	15	3/4	
	7/8	9	50	37	7/8	
N. by E.....N. by W.	1	11	15	00	1	S. by W....S. by E.
	1/8	12	39	22	1/8	
	1/4	14	03	45	1/4	
	3/8	15	28	07	3/8	
	1/2	16	52	30	1/2	
	5/8	18	16	52	5/8	
	3/4	19	41	15	3/4	
	7/8	21	05	37	7/8	
N. NE.....N. NW.	2	22	30	00	2	S. SW. .... S. SE.
	1/8	23	54	22	1/8	
	1/4	25	18	45	1/4	
	3/8	26	43	07	3/8	
	1/2	28	07	30	1/2	
	5/8	29	31	52	5/8	
	3/4	30	56	15	3/4	
	7/8	32	20	37	7/8	
NE. by N..NW. by N.	3	33	45	00	3	SW. by S..SE. by S.
	1/8	35	09	22	1/8	
	1/4	36	33	45	1/4	
	3/8	37	58	07	3/8	
	1/2	39	22	30	1/2	

	5/8	40	46	52	5/8	
NE. .... NW.	3/4	42	11	15	3/4	SW. .... SE.
	7/8	43	35	37	7/8	
	1/8	45	00	00	4	
	1/4	46	24	22	1/4	
	3/8	47	48	45	3/8	
	1/2	49	13	07	1/2	
	5/8	50	37	30	5/8	
	3/4	52	01	52	3/4	
	7/8	53	26	15	7/8	
NE. by E. NW. by W.	5	54	50	37	5	SW. by W. SE. by E.
	1/8	56	15	00	1/8	
	1/4	57	39	22	1/4	
	3/8	59	03	45	3/8	
	1/2	60	28	07	1/2	
	5/8	61	52	30	5/8	
	3/4	63	16	52	3/4	
	7/8	64	41	15	7/8	
E. NE. .... W. NW.	6	66	05	37	6	W. SW. .... E. SE.
	1/8	67	30	00	1/8	
	1/4	68	54	22	1/4	
	3/8	70	18	45	3/8	
	1/2	71	43	07	1/2	
	5/8	73	07	30	5/8	
	3/4	74	31	52	3/4	
	7/8	75	56	15	7/8	
E. by N.....W. by N.	7	77	20	37	7	W. by S...E. by S.
	1/8	78	45	00	1/8	
	1/4	80	09	22	1/4	
	3/8	81	33	45	3/8	
	1/2	82	58	07	1/2	
	5/8	84	22	30	5/8	
	3/4	85	46	52	3/4	
	7/8	87	11	15	7/8	
East ..... West	8	88	35	37	8	West ..... East
		90	00	00		



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keep in stock a complete line of

*Engineers' Supplies*

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DRY DOCKS OF THE GREAT LAKES—DIMENSIONS, DRAUGHT OF WATER, ETC.

(From the 1913 Edition of the Blue Book of American Shipping, Copyrighted.)

PLACE	NAME OF DOCK	LENGTH		WIDTH		Depth Over Sill
		On blocks	over all	Gate	Top	
Ashtabula, O.	Great Lakes Engineering Works, graving dock	636	664	78	102	16
Bay City, Mich.	James Davidson	415	435	60	100	14½
Bay City, Mich.	James Davidson	290	315	42½	70	13
Buffalo, N. Y.	Buffalo Dry Dock Co., Dock No. 1	454	478	58	81	16
Buffalo, N. Y.	Buffalo Dry Dock Co., Dock No. 2	615	621	72	96	16
Buffalo, N. Y.	Buffalo Dry Dock Co., Dock No. 3	372	379	45	65½	12½
Buffalo, N. Y.	Buffalo Dry Dock Co., Dock No. 4	650	...	..	..	..
Chicago, Ill.	Shipowners' Dry Dock Co., No. 1	480	500	60	84	16
Chicago, Ill.	Shipowners' Dry Dock Co., No. 2	300	320	50	80	14
Chicago, Ill.	Shipowners' Dry Dock Co., No. 3	160	180	40	70	10
Chicago, Ill.	Shipowners' Dry Dock Co., No. 3	160	180	40	70	10
Chicago, Ill.	Chicago Shipbuilding Co. (Calumet)	556	564	70	100	16
Chicago, Ill.	Chicago Shipbuilding Co., Dock No. 1	536	547	58	88	13¾
Cleveland, O.	American Shipbuilding Co., Dock No. 1	442	455	48	55	16
Cleveland, O.	American Shipbuilding Co., Dock No. 2	340	360	48	55	17½
Cleveland, O.	American Shipbuilding Co., Dock No. 3	340	360	48	55	16½
Collingwood, Ont.	Collingwood Shipbuilding Co., Ltd.	514	520	55	60	16½
Detroit, Mich.	Detroit Shipbuilding Co., Dock No. 1	232	232	48	48	8
Detroit, Mich.	Detroit Shipbuilding Co., Dock No. 2	341	368	77	91	16
Detroit, Mich.	Great Lakes Engineering Works	600	600	..	95	18
Detroit, Mich.	Walter H. Oades Marine Ry.	141	...	..	..	{ 5 fo'd 12 aft
Detroit, Mich.	Walter H. Oades Marine Ry.	186	...	..	..	11 feet
Duluth, Minn.	Duluth Dry Dock Co., floating dock	...	...	..	..	16
Duluth, Minn.	N. Grignon, floating dock	60	...	60	60	13
Grand Haven, Mich.	Mechanics Dry Dock, sectional dock	...	...	..	..	9
Grand Haven, Mich.	T. W. Kirby, floating dock	140	...	42	..	8
Houghton, Mich.	Joseph Croze	75	100	26	26	10
Kingston, Ont.	Davis Dry Dock Co.	180	180	31	40	9
Kingston, Ont.	Kingston Dry Dock Co.	280	300	55	79	{ 14.6 low 16 high
Lorain, O.	American Shipbuilding Co.	550	605	66	94	15
Lorain, O.	American Shipbuilding Co.	724	750	80	125	15
Manitowoc, Wis.	Manitowoc Shipbuilding & Dry Dock Co. graving dock	340	350	45	68	13
Manitowoc, Wis.	Manitowoc Shipbuilding & Dry Dock Co.	360	360	..	70	15
Milwaukee, Wis.	Milwaukee Dry Dock Co., South Dock	444	455	60½	85	13½
Milwaukee, Wis.	Milwaukee Dry Dock Co., West Dock	312	320	45	75	12
Milwaukee, Wis.	Milwaukee Dry Dock Co., also has one floating dry dock 73 ft. long....	...	...	..	..	..
Montreal, Que.	A. Cantlin, Canada Marine Works	216	216	46	90	11
Montreal, Que.	A. Cantlin, Canada Marine Works	200	200	46	90	11
Ogdensburg, N. Y.	St. Lawrence Marine Ry. Co.	300	300	24	52	16
Oswego, N. Y.	J. H. & T. C. Goble, Ontario Dry Dock	150	165	36	50	11
Owen Sound, Ont.	Owen Sound Dry Dock & Ship Building Co., Ltd.	275	300	48½	63½	9
Owen Sound, Ont.	British N. American Bent Chair Factory	...	300	..	..	10
Owen Sound, Ont.	Western Dry Dock and Ship Building Co., Ltd.	255	300	46	120	11
Picton, Ont.	Canada Transp. Lines (formerly owned by A. W. Hepburn)	...	...	..	..	..
Port Arthur, Ont.	Muir Brothers (3 sections)	390	412	..	62	13½
Port Dalhousie, Ont.	Port Huron Ship Building Co.	412	...	62	..	18
Port Huron, Mich.	Reid Wrecking Co., graving dock	234	236	41	..	12
Port Huron, Mich.	Manitowoc Dry Dock Co., floating dock	178	180	38	..	12
Quebec, Que.	G. T. Davie & Sons, No. 1	120	120	35	40	10 over
Quebec, Que.	G. T. Davie & Sons, No. 2	...	322	..	..	..
Quebec, Que.	Ross & Co.	223	...	41½	..	..
Quebec, Que.	A. Russell	150	...	..	..	10
Saginaw, Mich., E. S.	Carlin, Stickney & Cram, marine railway	130	130	29	29	9
Sandusky, O.	The Lake Erie Dry Dock & Mill Co.	160	...	..	..	8½
Sault Ste. Marie, Mich.	Hickler Bros. Marine Ry., 1,000 tons capacity	...	...	..	..	13½ aft
Sturgeon Bay, Wis.	Rieboldt, Wolter & Co., four sets of floating dry docks, 70, 100, 150 and 215 ft., length on blocks, respectively	...	...	..	52	13
Superior, Wis.	Superior Ship Building Co., Dock No. 1	475	514	51½	92	15
Superior, Wis.	Superior Ship Building Co., Dock No. 2	547	620	66½	105	18
Toledo, O.	A. Gilmore's Sons	230	235	37	55	9½
Toledo, O.	Toledo Marine Ry. (James Scanes, Mgr.)	102	102	32	32	10½
Toledo, O.	The Toledo Ship Building Co., No. 1	480	500	52	90	14
Toledo, O.	The Toledo Ship Building Co., No. 2	550	570	58 70½ 77½	103	14
Toronto, Ont.	Peter Arnot	125	200	32	32	10.6
Wyandotte, Mich.	Davis Boat & Car Co., marine railway	140	...	..	..	12



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The best location — plenty of water

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NEW YORK



# STRENGTH OF PLAIN LAID ROPE OF THREE STRANDS

(From Capt. T. A. Ellery, Marysville, Mich.)

Size	Number of yarns in rope	Weight of 100 fathoms in lbs	Breaking Strain in Tons		Mean, tons
			Maximum	Minimum	
12	1173	2940	45.5	35.	40.2
11½	1077	....	41.7	32.	36.8
11	987	....	38.2	29.3	33.7
10½	900	....	34.9	26.7	30.8
10	816	2136	31.7	24.2	27.9
9½	738	....	28.6	21.8	25.2
9	660	1712	25.7	19.6	22.6
8½	591	....	23.	17.5	20.2
8	522	1379	20.4	15.5	18.
7½	459	....	18.	13.6	15.8
7	399	....	15.8	11.8	13.8
6½	345	....	13.7	10.2	12.
6	294	834	11.75	8.7	10.3
5½	249	712	9.8	7.3	8.7
5	204	....	8.2	6.1	7.2
4½	168	413	6.7	5.	5.9
4	132	....	5.3	4.	4.7
3½	102	....	4.1	3.2	3.7
3	75	203	3.1	2.4	2.8
2½	54	....	2.2	1.8	2.1
2	33	....	1.5	1.3	1.4
1¾	27	....	1.28	1.13	1.23
1½	21	....	.90	.86	.88
1¼	15	....	.60	.53	.56
1	12	....	.58	.46	.51
¾	9	....	.51	.42	.46
½	6	....	.28	.28	.28

STRENGTH OF PLAIN LAID ROPE

JAS. MITCHELL, Pres.

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# STRENGTH OF CHAIN CABLE AS TESTED IN 15-FATHOM LENGTHS

(From Capt. T. A. Ellery, Marysville, Mich.)

Size	Required Test- ing Strain in Tons	Weight of 100 fathoms in Pounds	Breaking Strain in Tons		Mean Strain Tons
			Maximum	Minimum	
2¼	91½	27216	130.3	121.8	125.9
2½	81½	24276	116.2	108.6	112.3
2	72	21504	103.0	96.3	99.5
1¾	63¼	18900	99.0	88.0	92.8
1¾	55½	16464	85.3	65.0	74.1
1⅝	47½	14196	75.0	59.5	66.5
1½	40½	12096	65.5	54.5	59.5
1⅜	34	10164	53.6	44.4	48.5
1¼	28½	8400	42.8	35.3	38.5
1⅛	22¾	6804	33.0	27.0	29.5
1	18	5376	27.3	22.0	24.3
¾	13¾	4116	22.5	20.3	21.1
¾	10⅛	3024	15.0	12.5	13.5
11-16	8½	2541	12.3	10.8	11.4
⅝	7	2100	9.9	9.4	9.5
9-16	5½	1701	.....	.....	.....
½	4½	1344	6.3	5.9	6.0

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Grain per bushel, Iron Ore per gross ton

Rate in cents per bushel	Corn, flax and rye. 56 lbs. per bushel.	Wheat, 60 pounds per bushel.	Barley, 48 pounds per bushel.	Oats 32 pounds per bushel.
<b>EQUIVALENT IN IRON ORE PER GROSS TON.</b>				
1	\$0 40	\$0 37 $\frac{1}{3}$	\$0 46 $\frac{2}{3}$	\$0 70
1 $\frac{1}{4}$	50	46 $\frac{2}{3}$	58 $\frac{1}{3}$	87 $\frac{1}{2}$
1 $\frac{1}{2}$	60	56	70	1 05
1 $\frac{3}{4}$	70	65 $\frac{1}{3}$	81 $\frac{2}{3}$	1 22 $\frac{1}{2}$
2	80	74 $\frac{2}{3}$	93 $\frac{1}{3}$	1 40
2 $\frac{1}{4}$	90	84	1 05	1 57 $\frac{1}{2}$
2 $\frac{1}{2}$	1 00	93 $\frac{1}{3}$	1 16 $\frac{2}{3}$	1 75
2 $\frac{3}{4}$	1 10	1 02 $\frac{2}{3}$	1 28 $\frac{1}{3}$	1 92 $\frac{1}{2}$
3	1 20	1 12	1 40	2 10
3 $\frac{1}{4}$	1 30	1 21 $\frac{1}{3}$	1 51 $\frac{2}{3}$	2 27 $\frac{1}{2}$
3 $\frac{1}{2}$	1 40	1 30 $\frac{2}{3}$	1 63 $\frac{1}{3}$	2 45
3 $\frac{3}{4}$	1 50	1 40	1 75	2 62 $\frac{1}{2}$
4	1 60	1 49 $\frac{1}{3}$	1 86 $\frac{2}{3}$	2 80
4 $\frac{1}{4}$	1 70	1 58 $\frac{2}{3}$	1 98 $\frac{1}{3}$	2 97 $\frac{1}{2}$
4 $\frac{1}{2}$	1 80	1 68	2 10	3 15
4 $\frac{3}{4}$	1 90	1 77 $\frac{1}{3}$	2 21 $\frac{2}{3}$	3 32 $\frac{1}{2}$
5	2 00	1 86 $\frac{2}{3}$	2 33 $\frac{1}{3}$	3 50
5 $\frac{1}{4}$	2 10	1 96	2 45	3 67 $\frac{1}{2}$
5 $\frac{1}{2}$	2 20	2 05 $\frac{1}{3}$	2 56 $\frac{2}{3}$	3 85
5 $\frac{3}{4}$	2 30	2 14 $\frac{2}{3}$	2 68 $\frac{1}{3}$	4 02 $\frac{1}{2}$
6	2 40	2 24	2 80	4 20
Number of bushels per gross ton.	40	37 $\frac{1}{3}$	46 $\frac{2}{3}$	70
Number of gross tons in 100 bushels.	25	26 11-14	21 3-7	14 2-7

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**VESSEL TIME CARD AND DISTANCE TABLE OF LAKE PORTS  
BETWEEN LAKE ERIE PORTS AND DETROIT**  
Speed per hour. (Time is in hours and minutes.)

DETROIT TO	Miles	7 mi.	8 mi.	9 mi.	10 mi.	11 mi.	12 mi.	13 mi.	14 mi.	15 mi.	16 mi.
Buffalo .....	256	26.34	32	28.27	25.36	23.16	21.20	19.41	18.17	17.4	16
Erie .....	187	26.42	23.22	20.46	18.42	17	15.35	14.23	13.21	12.28	11.41
Conneaut .....	160	22.51	20	17.46	16	14.32	13.20	12.18	11.25	10.40	10
Ashtabula .....	146	20.50	18.15	16.14	14.36	13.16	12.10	11.13	10.25	9.44	9.7
Fairport .....	121	17.17	15.7	13.26	12.6	11	10.5	9.18	8.38	8.4	7.33
Cleveland .....	105	15	13.7	11.40	10.30	9.32	8.45	8.4	7.30	7	6.33
Lorain .....	88	12.34	11	9.46	8.48	8	7.20	6.46	6.17	5.52	5.30
Huron .....	78	11.8	9.45	8.40	7.48	7.5	6.30	6	5.34	5.12	4.52
Sandusky .....	69	9.51	8.37	7.40	6.54	6.16	5.45	5.18	4.55	4.36	4.18
Toledo .....	56	8	7	6.13	5.36	5.5	4.40	4.18	4	3.44	3.30

**BETWEEN DETROIT AND SAULT STE. MARIE AND MACKINAW**  
Speed per hour. (Time is in hours and minutes.)

DETROIT TO	Miles	7 mi.	8 mi.	9 mi.	10 mi.	11 mi.	12 mi.	13 mi.	14 mi.	15 mi.	16 mi.
Sault Ste. Marie .....	346	49.25	43.15	38.26	34.36	31.27	28.50	26.37	24.43	23.4	21.37
Mackinaw .....	311	44.25	38.53	34.33	31.6	28.16	25.55	23.55	22.13	20.44	19.26

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Two Large Floating Dry Docks.

SPAR DERRICK

Length on Keel Blocks 225 and 150 feet. Depth of water on Blocks 13½ ft.

Long Distance Telephone 12

STURGEON BAY, WIS.



## BETWEEN MACKINAW AND LAKE MICHIGAN PORTS

Speed per hour. (Time is in hours and minutes.)

MACKINAW TO	Miles	7 mi.	8 mi.	9 mi.	10 mi.	11 mi.	12 mi.	13 mi.	14 mi.	15 mi.	16 mi.
Escanaba.....	128	18.17	16	14.13	12.48	11.38	10.40	9.50	9.8	8.32	8
Green Bay.....	198	28.17	24.45	22	19.48	18	16.30	15.13	14.8	13.12	12.22
Manitowoc.....	194	27.42	24.15	21.33	19.24	17.38	16.10	14.55	13.51	12.56	12.7
Sheboygan.....	214	30.34	26.45	23.46	21.24	19.27	17.50	16.27	15.17	14.16	13.22
Milwaukee.....	258	36.51	32.15	28.40	25.48	23.27	21.30	19.50	18.25	17.12	16.7
Racine.....	270	38.34	33.45	30	27	24.32	22.30	20.46	19.17	18	16.52
Chicago.....	323	46.8	40.22	35.53	32.18	29.21	26.55	24.50	23.4	21.32	20.11
South Chicago.....	338	48.17	42.15	37.33	33.48	30.43	28.10	26	24.8	22.32	21.7

## BETWEEN SAULT STE. MARIE AND LAKE SUPERIOR PORTS

Speed per hour. (Time is in hours and minutes.)

SAULT STE. MARIE TO	Miles	7 mi.	8 mi.	9 mi.	10 mi.	11 mi.	12 mi.	13 mi.	14 mi.	15 mi.	16 mi.
Marquette.....	158	22.34	19.45	17.33	15.48	14.21	13.10	12.9	11.17	10.32	9.52
Ashland—Bayfield—Washburn.....	347	49.34	43.22	38.33	34.42	31.32	28.55	26.41	24.47	23.8	21.41
Ft. William—Port Arthur.....	272	38.51	34	30.14	27.12	24.43	22.40	20.55	19.25	18.8	17
Two Harbors.....	371	53	46.22	41.13	37.6	33.43	30.55	28.32	26.30	24.44	23.11
Duluth.....	394	56.17	49.15	43.46	39.24	35.49	32.50	30.18	28.8	26.16	24.37

BOAT	SPEED		BOAT	SPEED	
	Loaded.	Light.		Loaded.	Light.
.....					

Both Phones

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## PILOT'S READY RECKONER

The Pilot's Ready Reckoner, published herewith, is copyrighted by Capt. M. G. Allen, who gave the Ship Masters' Directory permission to reproduce it.

The following table was calculated to aid pilots in ascertaining the distance a vessel on a certain course will pass an object when abeam by bearings from the course of  $\frac{1}{4}$  to  $7\frac{3}{4}$  points. It is calculated up to twenty miles.

It is also available to ascertain the leeway or current action to which the vessel is subject.

It will be noticed by the pilot that exactness depends upon his knowing the speed of his vessel and the time she is due abreast the object or his judgment as to the distance the vessel must run to bring the object abeam.

For example, suppose the vessel is a twelve mile boat and due abreast the object in an hour and twenty-five minutes (seventeen miles to run) and that the object bears two and a quarter points on the bow. Enter the table where the heading says "Difference between course and bearing  $2\frac{1}{4}$  points" then follow down column to seventeen, opposite which is the figure 8, denoting the miles the vessel will be off the object when abeam.

To prove your calculation is correct and that your course is making good—that your vessel is not subject to the action of some unseen force such as current, or that your calculation as to leeway is correct, the bearing should be three points on the bow at twelve miles to run and four points on the bow at eight miles to run.

As another illustration, suppose the object bears  $1\frac{1}{4}$  points on the bow at 16 miles to run the ship should clear by four miles, and to find if the vessel is making good the calculation and not drifting for any reason the bearing should be nearly 2 points on the bow at 10 miles to run and 3 points on the bow at 6 miles to run,  $3\frac{1}{2}$  points on the bow at 5 miles to run and 4 points on the bow at 4 miles to run.

A bearing can be taken at every mile if necessary to ascertain how much influence wind or current has upon the vessel.

### To Ascertain Leeway

Take a bearing of some known object and as an illustration say it is one point on the bow with fifteen miles to run to bring the vessel abreast this object. This course barring leeway would bring the vessel three miles off. Upon taking your second bearing you find the object bears one and three-quarters points on the bow at ten miles to run, showing three and a half miles off. The vessel has drifted one-half mile in going five, which according to the table would be one-half point leeway. Taking a third bearing at five miles to run the object should bear three and a half points on the bow, showing four miles off. This course uncorrected would bring the vessel four and a half miles off.

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**PORT ARTHUR**



FIGURE 1.

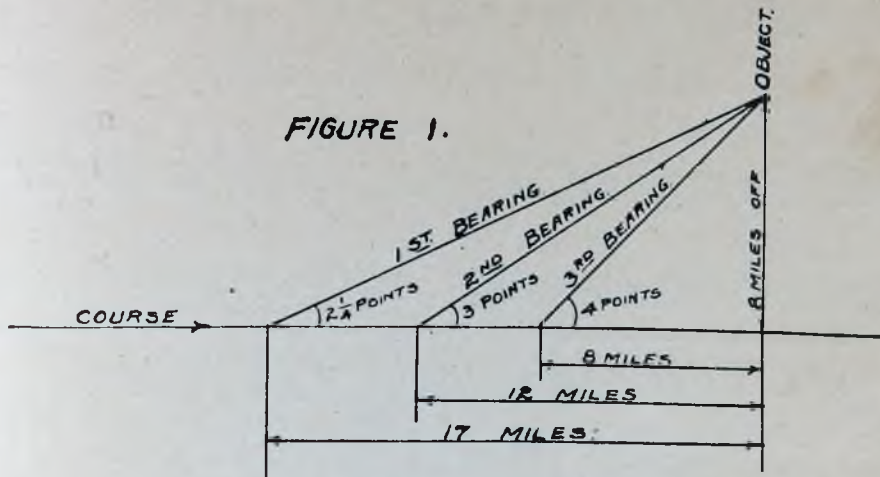


FIGURE 2.

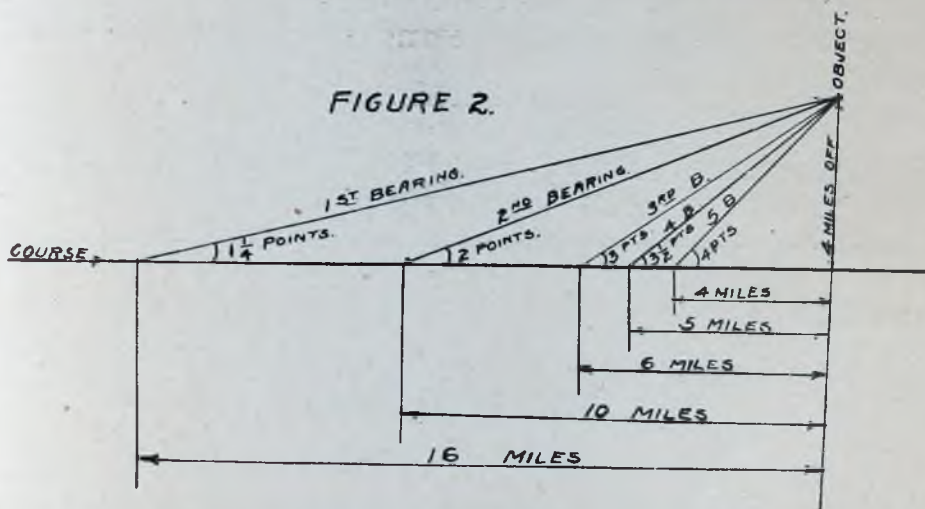
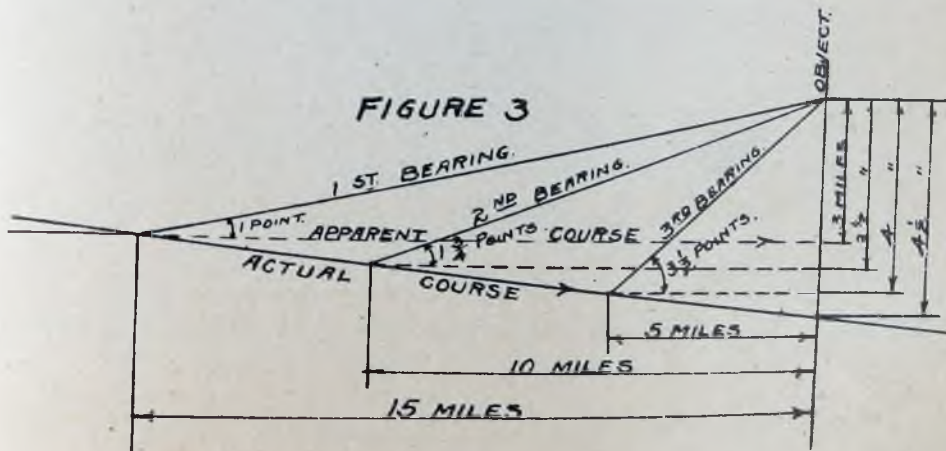


FIGURE 3



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Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff. Between Course & Bear.	
$\frac{1}{4}$ Point		$\frac{1}{2}$ Point		$\frac{3}{4}$ Point		1 Point	
Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off
Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles
1	.05	1	.10	1	.15	1	.20
2	.10	2	.20	2	.30	2	.40
3	.15	3	.30	3	.45	3	.60
4	.20	4	.40	4	.60	4	.80
5	.25	5	.50	5	.75	5	1.00
6	.30	6	.60	6	.90	6	1.20
7	.35	7	.70	7	1.05	7	1.40
8	.40	8	.80	8	1.20	8	1.60
9	.45	9	.90	9	1.35	9	1.80
10	.50	10	1.00	10	1.50	10	2.00
11	.55	11	1.10	11	1.65	11	2.20
12	.60	12	1.20	12	1.80	12	2.40
13	.65	13	1.30	13	1.95	13	2.60
14	.70	14	1.40	14	2.10	14	2.80
15	.75	15	1.50	15	2.25	15	3.00
16	.80	16	1.60	16	2.40	16	3.20
17	.85	17	1.70	17	2.55	17	3.40
18	.90	18	1.80	18	2.70	18	3.60
19	.95	19	1.90	19	2.85	19	3.80
20	1.00	20	2.00	20	3.00	20	4.00

Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff. Between Course & Bear.	
1 $\frac{1}{4}$ Points		1 $\frac{1}{2}$ Points		1 $\frac{3}{4}$ Points		2 Points	
Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off
Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles
1	.25	1	.30	1	.35	1	.41
2	.50	2	.60	2	.71	2	.82
3	.75	3	.91	3	1.06	3	1.23
4	1.00	4	1.21	4	1.42	4	1.65
5	1.25	5	1.51	5	1.78	5	2.06
6	1.50	6	1.82	6	2.13	6	2.47
7	1.76	7	2.12	7	2.49	7	2.88
8	2.01	8	2.42	8	2.84	8	3.30
9	2.26	9	2.73	9	3.20	9	3.71
10	2.51	10	3.03	10	3.56	10	4.12
11	2.76	11	3.33	11	3.91	11	4.53
12	3.01	12	3.64	12	4.27	12	4.95
13	3.26	13	3.94	13	4.62	13	5.36
14	3.52	14	4.24	14	4.98	14	5.77
15	3.77	15	4.55	15	5.34	15	6.18
16	4.02	16	4.85	16	5.69	16	6.60
17	4.27	17	5.15	17	6.05	17	7.01
18	4.52	18	5.45	18	6.40	18	7.42
19	4.77	19	5.75	19	6.76	19	7.83
20	5.03	20	6.06	20	7.12	20	8.25



Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff. Between Course & Bear.	
2 $\frac{1}{4}$ Points		2 $\frac{1}{2}$ Points		2 $\frac{3}{4}$ Points		3 Points	
Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off
Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles
1	.5	1	.5	1	.6	1	.7
2	.9	2	1.1	2	1.2	2	1.3
3	1.4	3	1.6	3	1.8	3	2.0
4	1.9	4	2.1	4	2.4	4	2.6
5	2.3	5	2.6	5	3.0	5	3.3
6	2.8	6	3.2	6	3.6	6	4.0
7	3.3	7	3.7	7	4.1	7	4.6
8	3.8	8	4.2	8	4.7	8	5.3
9	4.2	9	4.7	9	5.3	9	6.0
10	4.7	10	5.3	10	5.9	10	6.6
11	5.2	11	5.8	11	6.5	11	7.3
12	5.7	12	6.3	12	7.1	12	8.0
13	6.1	13	6.8	13	7.7	13	8.6
14	6.6	14	7.4	14	8.3	14	9.3
15	7.1	15	7.9	15	8.9	15	10.0
16	7.5	16	8.5	16	9.5	16	10.6
17	8.0	17	9.0	17	10.1	17	11.3
18	8.5	18	9.5	18	10.7	18	12.0
19	9.0	19	10.1	19	11.3	19	12.6
20	9.4	20	10.6	20	11.9	20	13.3

Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff. Between Course & Bear.	
3 $\frac{1}{4}$ Points		3 $\frac{1}{2}$ Points		3 $\frac{3}{4}$ Points		4 Points	
Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off
Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles
1	.7	1	.8	1	.9	1	1.
2	1.4	2	1.6	2	1.8	2	2.
3	2.2	3	2.4	3	2.7	3	3.
4	2.9	4	3.2	4	3.6	4	4.
5	3.7	5	4.0	5	4.5	5	5.
6	4.4	6	4.8	6	5.4	6	6.
7	5.2	7	5.6	7	6.3	7	7.
8	5.9	8	6.4	8	7.2	8	8.
9	6.6	9	7.3	9	8.1	9	9.
10	7.4	10	8.1	10	9.0	10	10.
11	8.1	11	8.9	11	9.9	11	11.
12	8.9	12	9.7	12	10.8	12	12.
13	9.6	13	10.5	13	11.7	13	13.
14	10.4	14	11.3	14	12.7	14	14.
15	11.1	15	12.2	15	13.6	15	15.
16	11.9	16	13.0	16	14.5	16	16.
17	12.6	17	13.8	17	15.4	17	17.
18	13.4	18	14.6	18	16.3	18	18.
19	14.1	19	15.4	19	17.2	19	19.
20	14.9	20	16.3	20	18.1	20	20.



Diff. Between Course & Bear		Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff. Between Course & Bear.	
4 <sup>1</sup> / <sub>4</sub> Points		4 <sup>1</sup> / <sub>2</sub> Points		4 <sup>3</sup> / <sub>4</sub> Points		5 Points	
Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off
Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles
1	1.1	1	1.2	1	1.4	1	1.6
2	2.2	2	2.5	2	2.7	2	3.0
3	3.3	3	3.7	3	4.1	3	4.6
4	4.4	4	4.9	4	5.4	4	6.0
5	5.5	5	6.1	5	6.8	5	7.6
6	6.6	6	7.4	6	8.1	6	9.0
7	7.8	7	8.6	7	9.4	7	10.6
8	8.9	8	9.9	8	10.8	8	12.0
9	10.0	9	11.1	9	12.2	9	13.6
10	11.1	10	12.3	10	13.6	10	15.0
11	12.2	11	13.5	11	14.9	11	16.6
12	13.3	12	14.8	12	16.3	12	18.0
13	14.4	13	16.0	13	17.6	13	19.6
14	15.5	14	17.2	14	19.0	14	
15	16.6	15	18.5	15		15	
16	17.7	16	19.7	16		16	
17	18.8	17		17		17	
18	19.9	18		18		18	
19		19		19		19	
20		20		20		20	

Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff. Between Course & Bear.	
5 $\frac{1}{4}$ Points		5 $\frac{1}{2}$ Points		5 $\frac{3}{4}$ Points		6 Points	
Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off
Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles
1	1.7	1	1.9	1	2.2	1	2.5
2	3.4	2	3.8	2	4.3	2	4.9
3	5.1	3	5.7	3	6.4	3	7.3
4	6.7	4	7.6	4	8.6	4	9.7
5	8.4	5	9.5	5	10.7	5	12.1
6	10.1	6	11.3	6	12.8	6	14.5
7	11.7	7	13.2	7	14.9	7	16.9
8	13.5	8	15.1	8	17.0	8	19.3
9	15.2	9	16.9	9	19.1	9	
10	16.8	10	18.8	10		10	
11	18.5	11		11		11	
12		12		12		12	
13		13		13		13	
14		14		14		14	
15		15		15		15	
16		16		16		16	
17		17		17		17	
18		18		18		18	
19		19		19		19	
20		20		20		20	



Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff. Between Course & Bear.	
6¼ Points		6½ Points		6¾ Points		7 Points	
Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off
Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles
1	2.8	1	3.3	1	4.	1	5.
2	5.6	2	6.6	2	8.	2	10.
3	8.4	3	9.9	3	12.	3	15.
4	11.2	4	13.2	4	15.9	4	20.
5	14.0	5	16.5	5	19.8	5	
6	16.8	6	19.7	6		6	
7	19.6	7					

Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff. Between Course & Bear.		Diff. Between Course & Bear.	
7¼ Points		7½ Points		7¾ Points			
Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off	Dist. to Run	Dist. Off
Miles	Miles	Miles	Miles	Miles	Miles	Miles	Miles
1	6.75	1	10.	1	20.		
2	13.50	2	20.				
3	20.00						

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## DETROIT RIVER POSTAL SERVICE

Regulations as Published by the Postmaster of the City of Detroit

It will be necessary for boats desiring to receive or deliver United States mail to enter the American channel, but only at the point of delivery.

The station will be located at the foot of First street, and deliveries will be made as nearly opposite that point as possible by a launch and small boats, the service being a continuous one day and night.

When telegrams from passing vessels are handed to the marine letter carrier, the amount of money accompanying same, in addition to the cost of the message, should be sufficient to attach a 2-cent postage stamp to same.

The delivery of telegrams may be had by instructing the telegraph company to attach a 2-cent stamp to the telegram, and, for immediate delivery, the addition of a special delivery stamp.

Mail for delivery from the marine postoffice should be directed to the "Marine Postoffice, Detroit, Mich.," and deliveries will be made throughout the entire period of navigation.

The signal to passing boats from the United States mail boat for delivery of mail will be one long whistle, one short whistle, one long whistle.

Signal for steam vessels wanting the mail boat to call for mail: One long whistle, one short whistle, one long whistle.

Signal for sailing vessels requiring mail boat: White flag by day, flashing bright light at night.

Signal from mail boat to large boats to check down: Three blasts of mocking bird whistle.

Signal from row boat belonging to mail boat when approaching vessels for delivery of mail: White flag in day time, swinging bright light at night.

**IMPORTANT:** Letters and packages will be received from passing boats by the marine carriers for registration and a receipt issued to the senders at the time, but registered letters and parcels can not be delivered to passing boats, as the necessary identification and receipts can not be had. The addressees of such letters and parcels

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CHICAGO



are, however, duly notified by mail of their receipt, and that they will be held at the postoffice the usual time, subject to their order to forward or to deliver to some person ashore.

Money orders can also be procured through the marine carriers by following the instructions issued by the postmaster; if not provided with a copy of same, apply to the carrier.

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## RULES AND REGULATIONS

### For Navigating Lower Detroit River

Approved by the Secretary of War, October 17, 1912

Definitions. The Lower Detroit River is that portion of the Detroit River between the Mamajuda range lights and Lake Erie.

Speed under these rules shall in all cases be speed over the bottom.

These rules shall replace all rules and regulations heretofore published for navigating the Lower Detroit River.

Rule 1. No vessel of 100 gross tons or over shall navigate the Livingstone Channel at a rate of speed greater than ten statute miles per hour between its junction with the Amherstburg Channel at Ballards Reef and the Bar Point light vessel; nor the Amherstburg Channel at a rate of speed greater than twelve statute miles per hour between the south end of Bois Blanc Island and the north gas buoys at Ballards Reef, and where the width of this channel is restricted by improvements in progress, through such restricted width of channel the speed shall not exceed eight statute miles per hour.

Rule 2. Downbound freight vessels shall pass through the Livingstone Channel and enter Lake Erie via the channel west of Detroit River lighthouse. All upbound vessels shall enter Detroit River via the channel east of Detroit River lighthouse, and pass through the Amherstburg Channel.

Vessels under 100 gross tons, and vessels making local stops along these routes, are exempt from this rule.

Rule 3. Passenger vessels may use the Amherstburg Channel downbound, but should they pass down through the Livingstone Channel they shall be subject to the rules governing that channel.

Rule 4. All upbound light-draft vessels and all passenger vessels using the Amherstburg Channel shall pass through the auxiliary chan-

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nel to the eastward of the improved channel at Ballards Reef. This auxiliary channel is 280 ft. wide and 14.5 ft. deep at low-water datum. The depth of water in this channel is posted in the cupola of building occupied by Duff and Gatfield, marine reporters, at Texas Dock.

Rule 5. No vessel shall pass, or approach within one-quarter mile of another vessel bound in the same direction in that portion of Livingstone Channel between its junction with the Amherstburg Channel at Ballards Reef and Bar Point light vessel; nor at any other portion of either channel where the width of channel is restricted by improvements in progress.

Tugs without tows and vessels under 100 gross tons are exempt from this rule.

Rule 6. Any vessel approaching a tug with a tow moving in the same direction may pass such tow by giving a signal indicating upon which side the vessel desires to pass, and it shall be the duty of the pilot of the tug to sheer clear of the side of the channel indicated and give the passing vessel all possible room.

Rule 7. No vessel shall anchor within the limits of either channel except in distress or under stress of weather. Any vessel so anchored shall be moved as quickly as possible to such anchorage as will leave the channel clear for the passage of vessels.

Rule 8. No vessel shall tow another through any of the improved channels unless such vessel moves the tow at least five miles per hour over the bottom; and no vessel of ten gross tons or over shall navigate the improved channels under sail power alone.

Rule 9. All vessels passing dredges, drill scows, derrick scows, or other stationary plant engaged on improvements to the channels are required to slacken their speed when given a signal by three distinct blasts of the steam whistle.

Rule 10. No vessel shall pass or attempt to pass another vessel or vessels moving in the same or opposite directions at any place in Lower Detroit River, in such a position that more than two vessels will be abreast when passing.

Rule 11. Three long blasts of the steam whistle, when sounded from a patrolling vessel, will indicate that the vessel to which such signal is given is proceeding at too high a rate of speed, and such vessel must immediately moderate her speed accordingly.

Rule 12. Four long blasts of the steam whistle, when sounded from a patrolling vessel, will indicate that the vessel to which such signal is given must stop until further orders from the patrolling vessel.

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Rule 13. One long blast followed by four short blasts, when sounded from a patrolling vessel, will indicate that the vessel to which such signal is given may proceed on her course.

Rule 14. A vessel aground in or near a channel, or a vessel which from any accident is not under command, shall show from sunset to sunrise, at a height of not less than twenty feet nor more than forty feet above the hull, two lights in a vertical line one above the other and not less than six feet apart, and so fixed as to be visible to both up and downbound vessels. The upper of these lights shall be red. If the nature of the accident is such that the channel is closed, the lower of these lights shall also be red. But if the nature of the accident is such that vessels can pass in safety, the lower of these lights shall be white.

Such vessel shall not show the lights required for a vessel at anchor.

Such vessel shall, if the accident has closed the channel, sound a signal of several short and rapid blasts of the steam whistle to any approaching vessel, whereupon the approaching vessel shall stop and repeat this signal to any vessel coming up astern of her.

But if the accident has not rendered passing unsafe, such vessel shall sound a signal of three distinct blasts to any approaching vessel, whereupon the approaching vessel shall answer with the same signal of three distinct blasts and shall reduce her speed and pass with caution.

Such vessel shall in no case give or answer a passing signal without first giving several short and rapid blasts of the steam whistle.

It shall be the duty of the Master of the first vessel passing such vessel to report the place and nature of the accident to the next marine reporting station or patrol boat.

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#### RULES AND REGULATIONS FOR NAVIGATING THE SAINT CLAIR RIVER, MICH., IN THE VICINITY OF STAG ISLAND

The United States Government having improved the channel to the westward of Stag Island by the removal of shoals, the following regulation is promulgated by the Secretary of War in pursuance of the provisions of Section 4 of the river and harbor act of August 18, 1894, as amended by Section 11 of the river and harbor act of June 13, 1902.

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All through-bound vessels in passing through the river at this point shall keep to the right, that is to say, all up-bound boats shall pass through the eastern channel and all down-bound boats through the western channel.

This rule shall only apply to through-bound vessels and not to vessels running between local points on the river, which vessels may take either channel, conforming to the ordinary rules of the road at sea.

ROBERT SHAW OLIVER,  
Assistant Secretary of War.

War Department, January 8, 1907.

The following regulation governing the speed of vessels navigating the St. Clair river in front of Sarnia has been approved by both the United States and Dominion Governments:

The speed of vessels navigating the waters of St. Clair river in front of the city of Sarnia shall not exceed nine miles per hour.

The city limits of Sarnia extend from just below the international tunnel to about opposite Bay Point.

War Department, Sept. 16, 1909.

The Canadian Government have concurred in the foregoing regulations for the navigation of the St. Clair River.

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### Penalties for Violations

Every person and every corporation which shall violate such rules and regulations shall be deemed guilty of a misdemeanor and, on conviction thereof in any district court of the United States within whose territorial jurisdiction such offense may have been committed, shall be punished by a fine not exceeding five hundred dollars, or by imprisonment (in case of a natural person) not exceeding six months, in the discretion of the court.

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**REGULATIONS FOR CHICAGO HARBOR**

Ordinance passed Dec. 13th, 1909, amending Section 1016 of the Revised Municipal Code of Chicago of 1905, as follows:

Section 1016. Steam Tugs for Vessels—Penalty. All vessels, craft or floats not propelled by steam, navigating the harbor for which the opening of any bridge may be necessary, shall, while approaching and passing such bridge be towed by a steam tug. Any steam boat, vessel, craft or float propelled by steam of twelve hundred (1,200) tons gross burden or more, while navigating the portion of the Chicago River bounded by the Rush street bridge on the east, the Twelfth street bridge on the south and the Chicago avenue bridge on the north, all inclusive, shall have the assistance of a tug or tugs. It shall be unlawful for any steam boat, vessel, craft or float of twelve hundred (1,200) tons gross burden or more to back through any bridge draw in the Chicago River or the Calumet River within the limits of the City of Chicago without the assistance of a tug or tugs Page 2139 Council Proceedings.

The mayor of Chicago has suspended this ordinance pending court decision on litigation so that it is not obligatory on a vessel master to take a tug on the Chicago river unless he thinks it necessary to do so.

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**RULES FOR THE SAINT MARY'S RIVER**

Rule 1. These rules shall apply to the waters of Saint Mary's River from Point Iroquois on Lake Superior to Point Detour on Lake Huron, except those waters included in the Saint Mary's Falls Canals.

Speed under these rules shall in all cases be speed over the bottom.

Rule 2. No vessel of 500 gross tons or over shall navigate the Saint Mary's River at a rate of speed greater than ten statute miles per hour between Everen's Point and the float lights in Hay Lake marking the northern end of the Middle Neebish Channel, nor between the post lights in Hay Lake and in Mud Lake marking the upper and lower ends, respectively, of the West Neebish Channel, nor be-

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tween Six Mile Point Rear Light and the intersection of Cedar Point and Birch Point Ranges.

Rule 3. No vessel of 500 gross tons or over shall pass up the West Neebish Channel nor down the Middle Neebish Channel except vessels making a regular local stop on these channels and vessels bound in or out of the Saint Joseph or Lake George Channels at Harwood Point.

Rule 4. No vessel shall pass, or approach within one-quarter mile of, a vessel bound in the same direction in any of those portions of the channels where speed is restricted to ten statute miles per hour except between Bayfield Rock and the Saint Mary's Falls Canals, and, for upbound vessels only, between Vidal Shoal and Black Gas Buoy No. 3, off Brush Point.

Tugs without tows and local passenger boats under 500 gross tons are exempt from this rule.

Rule 5. Any vessel approaching a tug towing a dredge or scow moving in the same direction may pass such tow by giving a signal indicating upon which side the vessel desires to pass, and it shall be the duty of the pilot of the tug to sheer clear of the side of the channel indicated and give the vessel all possible room.

Rule 6. No vessel or raft shall anchor in any of the improved channels nor off Big Point within one-quarter mile of the waterworks intake crib, except vessels in distress or under stress of weather.

Any vessel or raft so anchored shall at once shift anchorage as directed by the Supervisor of Anchorages.

Rule 7. Vessels towing, while engaged in shortening or lengthening tow lines, or dropping or making up tows; vessels mooring or unmooring, anchoring or hoisting anchor; vessels loading or discharging stores from boats alongside; and vessels awaiting supply boats are required to haul, clear of the range when possible and to permit the unobstructed passage of other vessels.

Rule 8. No vessel is allowed to tow more than one vessel through any of the improved channels unless the vessel moves the tow at least five miles per hour over the bottom; and no vessel of ten gross or over shall navigate the improved channels under sail power alone.

Rule 9. Every upbound vessel shall, when abreast of Everen's Point, sound a ten-second blast of the steam whistle, which shall be answered by any descending vessel between Dark Hole Gas Buoy and Johnston Point.

Every vessel bound down the Middle Neebish Channel shall, when abreast of Dark Hole Gas Buoy, sound a ten-second blast of the steam

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whistle, which shall be answered by a like blast from any upbound vessel between Everen's Point and Johnston's Point.

Immediately after such exchange of signals the passing signals shall be exchanged.

Masters are cautioned not to sound the ten-second blast required by this rule before reaching the points named.

Rule 10. All vessels passing dredges and other vessels engaged on improvements to the channels are required to slacken their speed upon such dredge or vessel giving the signal of three distinct blasts of the steam whistle.

Rule 11. No vessel shall pass or attempt to pass another vessel or vessels moving in the same direction in such a position that more than two vessels will be abreast when passing.

Rule 12. Rafts are required to use the Old or Lake George Channel. When lying by they shall be moored clear of the channel. From Harwood Point to Mud Lake Crib Gas Buoy they will move only when and as directed by the Supervisor of Anchorages.

Rafts originating in Hay Lake shall be moved only at such times and under such conditions as the Supervisor of Anchorages may direct.

Rule 13. A vessel aground in or near a channel, or a vessel which from any accident is not under command, shall show from sunset to sunrise, at a height of not less than twenty feet nor more than forty feet above the hull, two lights in a vertical line one above the other and not less than six feet apart and so fixed as to be visible to both up and downbound vessels. The upper of these lights shall be red. If the nature of the accident is such that the channel is closed, the lower of these lights shall be red. But if the nature of the accident is such that vessels can pass in safety, the lower of these lights shall be white.

Such vessel shall not show the lights required for a vessel at anchor.

Such vessel shall, if the accident has closed the channel, sound a signal of several short and rapid blasts of the steam whistle to any approaching vessel, whereupon the approaching vessel shall stop and shall repeat this signal to any vessel coming up astern of her.

But if the accident has not rendered passing unsafe, such vessel may sound a signal of three distinct blasts to any approaching vessel, whereupon the approaching vessel shall answer with the same signal of three distinct blasts and shall reduce her speed and pass with caution.

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Such vessel shall in no case give or answer a passing signal without first giving several short and rapid blasts of the steam whistle.

And it shall be the duty of the master of the first vessel passing such vessel to report the place and nature of the accident to the next lookout station, canal office, or patrol boat.

Rule 14. Whenever vessels collect in any part of the river by reason of fog, smoke, ice, or the obstruction of any of the channels, the Supervisor of Anchorages shall direct and control their anchorage and their movements through such channels as the Engineer in charge of the improvements of the Saint Mary's River may declare open and under such restrictions as to order, speed, and towage as the Engineer in charge of the improvements in the Saint Mary's River may deem necessary to facilitate and expedite the passage of commerce. Regular scheduled boats carrying passengers or mails may be advanced in order and any vessel not ready to move when directed will lose her position. All vessels are required to yield prompt and implicit obedience to the directions of the Supervisor of Anchorages.

Rule 15. The patrolling vessels of the United States Revenue-Cutter Service shall have the right of way over all other vessels.

Rule 16. Signals will be used by patrol vessels as follows:

One long blast of the steam whistle followed by one short blast calls attention of nearest patrol boat or lookout station. This signal will also be used by any vessel that wishes to speak to a patrol boat.

Three long blasts of the steam whistle will indicate that the nearest moving vessel is proceeding at too high a rate of speed, and such vessel will at once reduce her speed.

Four long blasts of the steam whistle will indicate that the nearest moving vessel must stop until further orders.

Rule 17. Day and night signals will be displayed from the signal pole at Lookout Station No. 1, Johnson's Point, as follows:

One red light by night or one red ball by day will indicate that the depth of water in the channel is below the normal, and the master of any vessel the draft of which approximates the normal depth will ascertain the depth of water existing in the channel before attempting its passage.

Two red lights by night or two red balls by day will indicate that the channel is closed to upbound vessels, and all such vessels will anchor in the order of their arrival, unless otherwise directed by the patrol boat, on the west side of the ranges from the Mill dock to Everen's Point and on the east side of the sailing lines in

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Mud Lake below Mud Lake Crib Gas Buoy, and will so remain anchored as long as these signals are displayed.

Rule 18. The signal of two red lights by night or two red balls by day may be used by the patrol boats or by lookout stations other than No. 1 to signify that vessels approaching a blockaded channel must anchor where designated and so remain anchored until further instructed by a patrol boat.

Rule 19. A white light hoisted on the flagstaff of any lookout station by night or a white flag or ball hoisted under the ensign by day will signify that the lookout has instructions for passing vessels.

Rule 20. The foregoing rules shall not apply to motor boats as defined under the act of Congress approved June 9, 1910, or to sail vessels under ten gross tons.

Rule 21. In all cases where the foregoing rules are not applicable the attention of masters is directed to the Pilot Rules for the Great Lakes and their Connecting and Tributary Waters.

Complaints arising under these rules should be addressed to the "Supervisor of Anchorages, Sault Sainte Marie, Michigan."

Appeals from the assessments of fines will be accompanied by sworn statements in duplicate. They will be addressed to "The Honorable, The Secretary of Commerce and Labor," and must be forwarded through the collector of customs that assessed the fine.

These rules will take effect April 15th, 1911.

BENJ. S. CABLE,  
Acting Secretary.

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**RULES AND REGULATIONS IN CASE OF OBSTRUCTIONS TO  
COMMERCE IN ST. MARY'S RIVER, MICHIGAN, PRESCRIBED  
BY THE SECRETARY OF WAR, JANUARY 9, 1907**

Under authority of Section 4 of the River and Harbor act of August 18, 1894, as amended by Section 11 of the River and Harbor act of June 13, 1902, the following rules and regulations in case of obstructions to commerce in the St. Mary's River, Michigan, are hereby prescribed:

Whenever any boat, vessel, raft, or other water craft, shall, by reason of grounding, becoming fast in ice, or any other cause, endanger or obstruct, the free passage of vessels, the Engineer Officer in charge of the improvement of St. Mary's River, Michigan, or his duly accredited representative, is hereby authorized to take imme-

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diate charge with full power to stop all vessels and direct their anchorage; to clear a channel; to designate the order in which all vessels shall proceed after the channel is opened; and to do all other things necessary and proper to facilitate and expedite the passage of commerce.

While in the performance of this duty all orders of the Engineer Officer, or his agent, shall be obeyed, and any violation of such orders will be considered a misdemeanor punishable by a fine not exceeding five hundred dollars, or by imprisonment (in the case of a natural person) not exceeding six months, in the discretion of the court, as provided in the aforesaid law.

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SCHEDULE OF RUNNING TIME ST. MARY'S RIVER

	Distance Miles	Time Min.
Everen's Pt. to Encampment Crib .....	0.8	5
Encampment Crib to Dark Hole turn .....	1.6	10
Dark Hole turn to Harwood Pt. turn .....	3.3	20
Harwood Pt. turn to Junction Buoy No. 35 .....	3.3	20
Junction Buoy to Float Light No. 14 .....	2.8	17
Crib Light opposite Six Mile Pt. to Red Nun Buoy ..	1.5	9
Red Nun Buoy to Lower end Island cut .....	1.5	9
Lower end Island cut to North Entrance .....	1.5	9
North Entrance to Bayfield Shoal dyke .....	0.5	3
South pier west end to Big Pt. ....	2.3	14
Big Pt. to Brush Pt. ....	2.3	14
Brush Pt. to intersection of Birch Pt. and Cedar Pt. ranges .....	5.0	30

BOUND DOWN

Intersection of Birch Pt. and Cedar Pt. ranges to Brush Pt. ....	5.0	30
Brush Pt. to Big Pt. ....	2.3	14
Big Pt. to South pier west end .....	2.3	14
Bayfield Shoal dyke to North Entrance .....	0.5	3
North Entrance to lower end Island cut .....	1.5	9
Lower end Island cut to Red Nun Buoy .....	1.5	9
Red Nun Buoy to lower Crib Light opposite Six Mile Pt. ....	1.5	9
Entrance Cribs to Hay Pt. turn Crib No. 22 .....	1.6	10
Hay Pt. turn Crib No. 22 to Lookout Station 4 .....	4.5	27
Lookout Station 4 to Lower Gas Buoy .....	2.5	15
Lower Gas Buoy to Lookout Station 5 .....	2.8	17
Lookout Station 5 to Mud Lake Cribs 1-2 .....	1.	11

### COMPASS COURSES AND DISTANCES

The following tables of corrected compass courses and distances were prepared by Frank Morrison, compass adjuster of Cleveland.

#### Corrected Compass Courses

Lake Erie	Course	Miles
Buffalo to Long Point .....	W by S $\frac{3}{4}$ S	63 $\frac{3}{4}$
Long Point to Dummy .....	W by S $\frac{5}{8}$ S	134
Buffalo to Erie .....	S W $\frac{3}{4}$ W	76 $\frac{1}{2}$
Buffalo to Ashtabula .....	S W by W $\frac{1}{4}$ W	117
Buffalo to Fairport .....	S W by W $\frac{1}{2}$	143
Fairport to Cleveland .....	S W $\frac{1}{2}$ W	29
Buffalo to Sandusky .....	S W by W $\frac{7}{8}$ W	216
Erie to Dummy .....	W $\frac{3}{4}$ S	126
Ashtabula to Dummy .....	W $\frac{1}{4}$ S	88
Fairport to Dummy .....	W $\frac{3}{8}$ N	62 $\frac{1}{2}$
Lorain to Dummy .....	N W by N	30
Sandusky to Dummy .....	N E by E $\frac{1}{2}$ E	

Lake Huron	Course	Miles
Fort Gratiot to Sand Beach .....	N $\frac{5}{8}$ W	58 $\frac{1}{2}$
Sand Beach to Tunder Bay .....	N by W $\frac{1}{2}$ W	87 $\frac{1}{2}$
Thunder Bay to Presque Isle .....	N W by N $\frac{3}{4}$ N	26 $\frac{1}{2}$
Presque Isle to Forty-Mile Point .....	N W by W $\frac{5}{8}$ W	47
Thence Sheboygan Light .....	West	8
Presque Isle to Detour .....	N W by N $\frac{1}{8}$ N	45
Detour to Cheboygan .....	S W $\frac{5}{8}$ W	30
Detour to Bois Blanc .....	W by S $\frac{1}{2}$ S	26 $\frac{1}{4}$
Thence to Straits of Mackinac .....	West	9 $\frac{3}{4}$



Lake Michigan	Course	Miles
Waugoshance to North Manitou ....	S W $\frac{5}{8}$ S	65 $\frac{1}{2}$
North Manitou to Point Betsey .....		30
Pt. Betsey to Chicago .....	S by W $\frac{1}{4}$ W	207
Waugoshance to Milwaukee north of Manitou .....	S W $\frac{3}{8}$ W	62
Thence .....	S W by S $\frac{5}{8}$ S	177
Waugoshance to Poverty north of Beavers .....	W $\frac{1}{2}$ N	14
Thence .....	S W by W $\frac{1}{2}$ W	58
Waugoshance to Beavers .....	S W $\frac{1}{2}$ W	27
Beavers to Poverty .....	W $\frac{1}{2}$ S	55
Chicago to the Door .....	N $\frac{3}{8}$ E	238
Milwaukee to the Door .....	N by E $\frac{1}{8}$ E	159 $\frac{1}{2}$

Straits of Mackinac	Course	Miles
Cheboygan to Mackinac .....	N W by W $\frac{1}{4}$ W	19
Mackinaw Point to Waugoshance ....	West	18 $\frac{1}{2}$

Lake Superior	Course	Miles
Iroquois to Whitefish Point .....	N W $\frac{3}{4}$ N	25 $\frac{1}{4}$
Whitefish Point to Sable Point .....	W $\frac{1}{2}$ S	56 $\frac{3}{4}$
Thence to Marquette .....	W by S $\frac{1}{4}$ S	60
Whitefish to Huron Island .....	W $\frac{1}{4}$ N	145
Thence to Portage entrance .....	W $\frac{1}{2}$ S	20
Whitefish Point to Copper Harbor ..	W by N $\frac{5}{8}$ N	145 $\frac{1}{2}$
Copper Harbor to Eagle Harbor .....	West	7
Thence .....	W by S	8
Eagle Harbor to Devil Isle .....	W by S $\frac{1}{2}$ S	124
Devil Isle to Duluth .....	S W by W $\frac{1}{2}$ W	68
Eagle Harbor to Two Harbors .....	W by S $\frac{1}{2}$ S	168
Eagle Harbor to La Point .....	S W by W $\frac{1}{2}$ W	5

## DISTANCES

	Erie	Ashtabula	Fairport	Cleveland	Milwaukee	Escanaba	Chicago	Marquette	Ashland	Two Harbors	Duluth
Buffalo . . . . .	80	117	143	173	696	825	892	760	949	973	998
Erie . . . . .	...	43	73	101	626	756	822	691	880	904	928
Ashtabula . . . . .	...	...	27	56	585	715	781	650	839	863	887
Fairport . . . . .	...	...	...	30	563	693	759	628	817	841	865
Cleveland . . . . .	...	...	...	...	544	674	739	609	798	822	846
Escanaba . . . . .	...	...	...	...	...	201	275	339	578	602	626
Milwaukee . . . . .	...	...	...	...	...	...	83	519	708	732	755
Chicago . . . . .	...	...	...	...	...	...	...	584	773	797	820
Marquette . . . . .	...	...	...	...	...	...	...	...	...	...	279
Ashland . . . . .	...	...	...	...	...	...	...	...	...	72	94
Two Harbors . . . . .	...	...	...	...	...	...	...	...	...	...	27

Distances to Chicago are by south passage; if by middle passage add nine miles; if west passage add 17 miles to the distances to Lake Superior and Lake Erie ports.

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## THE USE OF THE BEARING INDICATOR

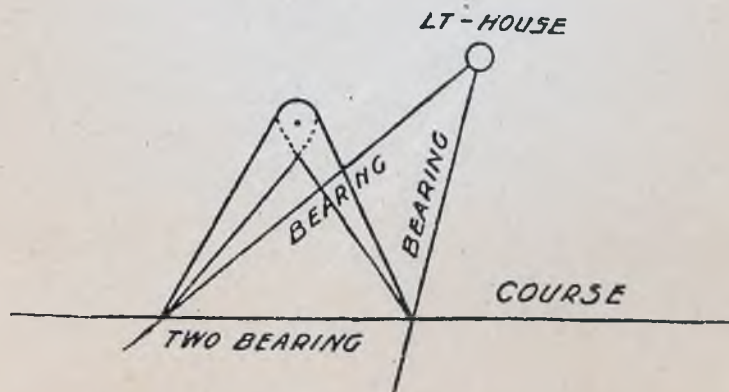
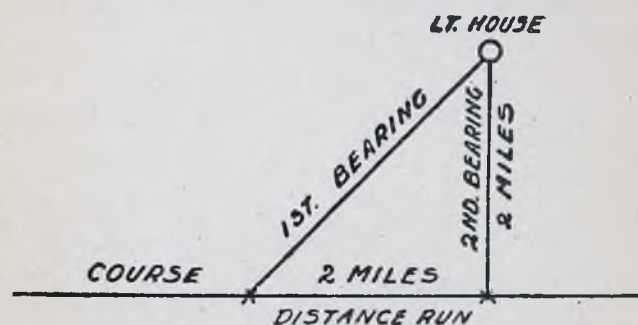
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- (1) How to find error of the compass by the north star.
- (2) And by the rising and setting sun.
- (3) How to obtain the distance off from a lighthouse or other known objects by bearings known as the four-point bearing, the cross bearing or the two-bearing method which are thus explained.

(1) To obtain the error of the compass by a bearing of the north star: Set the dial of the indicator same as the pilot house compass, then point the sight-bar toward the north star and the indicator will show the error at once.

(2) By having the amplitude tables that have been published for the lake region, the error of the compass may be obtained by taking a bearing of the rising or setting sun.

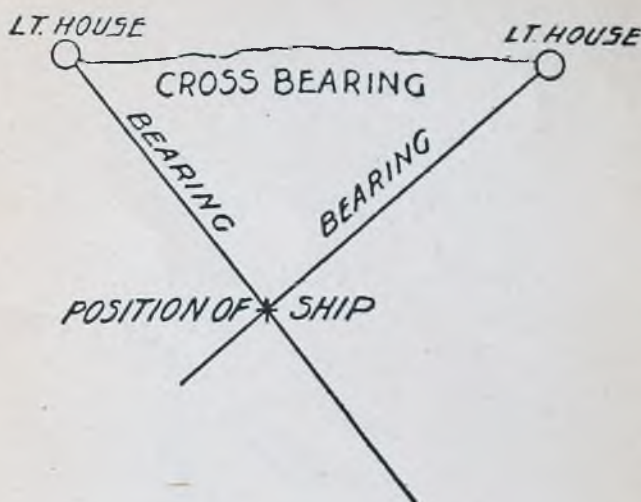
## The Four-Point Bearing



The four-point bearing is the most simple and easy bearing to take that will give the exact distance off a lighthouse or other known object without having to use the chart, and is taken thus: For instance, your course is N.  $\frac{1}{2}$  W., set the sight-bar at N. W.  $\frac{1}{2}$

W., or four (4) points of the bow; when the lighthouse or other object comes in range, note the time or log, or both, then run till the lighthouse or other object is abreast or eight (8) points of the bow, and the distance run between bearings will be the exact distance to the lighthouse.

The cross bearing is a very simple, quick and correct bearing when there are two lighthouses in view, and is taken thus: Take a bearing of each lighthouse and draw them on the chart, and where the lines cross is the position of the ship.



The two bearing method is taken thus: Take a bearing of lighthouse and draw the line on the chart, then run any distance, say a mile or two miles, then take another bearing, and draw it on the chart also, then set the dividers to the distance run, according to scale on chart, and draw them down the bearings on the course you have been steering till one point of the dividers rests on each line, and that will be the location of the ship at each bearing.

### TO FIND A SHIP'S DISTANCE

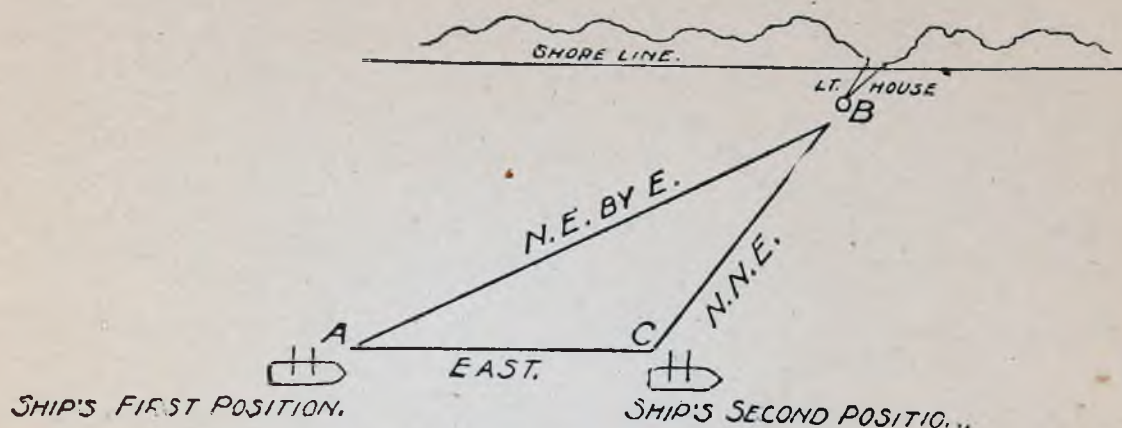
From a Point of Land or a Light, Without a Table, Chart or Dividers

Submitted by Bro. F. B. Higgin

The problem is of great service when sailing along any coast and is as follows: Suppose any well known shore light bears two or three points on either bow, then let the ship keep on her course till



it bears the same number of points to the left of the first bearing; the distance the ship has run in the interval is her distance from the light at the time of taking the second bearing.



### EXAMPLE

Let A be a ship steering east; B a light bearing three points on the port bow, that is, N. E. by E. She proceeds on her course till the light bears three points to the left of N. E. by E., that is N. N. E., then C. B. is equal to C. A. by 6th proposition, first book of Euclid.

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Rules and Regulations for the government of pilots of vessels propelled by steam, gas, fluid, naphtha, or electric motors, and of other vessels propelled by machinery, navigating the Great Lakes and their connecting and tributary waters as far east as Montreal, adopted by the Board of United States Supervising Inspectors, Steamboat Inspection Service, on February 14, 1907, and approved by the Secretary of Commerce and Labor on February 25, 1907, under the authority of an Act of Congress approved February 8, 1895.

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**These Rules Shall be Effective On and After July 1, 1907**

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**Preliminary**

In the following rules the words "steam vessel" and "steamer" shall include any vessel propelled by machinery.

A vessel is "under way" within the meaning of these rules when she is not at anchor or made fast to the shore or aground.

"Risk of collision" can, when circumstances permit, be ascertained by carefully watching the compass bearing of an approaching vessel. If the bearing does not appreciably change, such risk should be deemed to exist.

**Signals**

Rule I. In all weathers every steam vessel under way in taking any course authorized or required by these rules shall indicate that course by the following "signals" on her whistle, to be accompanied, whenever required, by corresponding alteration of her helm; and every steam vessel receiving a signal from another shall promptly respond with the same signal or sound the danger signal as provided in Rule II:

"One blast" means, "I am directing my course to starboard," except when two steamers are approaching each other at right angles or obliquely, other than when one steamer is overtaking another, one short blast signifies intention of steamer which is to starboard of the other to hold course and speed.

"Two blasts" mean, "I am directing my course to port," except

that when two steamers are approaching each other at right angles or obliquely, other than when one steamer is overtaking another, two short blasts signify desire of or assent to steamer which is to port of the other to cross the bow of steamer to starboard.

Rule II. If, when steamers are approaching each other, the pilot of either vessel fails to understand the course or intention of the other, whether from signals being given or answered erroneously, or from other causes, the pilot so in doubt shall immediately signify the same by giving the "danger signal" of four or more short and rapid blasts of the whistle; and if both vessels shall have approached within half a mile of each other, both shall be immediately slowed to a speed barely sufficient for steerageway, and, if necessary, stopped and reversed, until the proper signals are given, answered, and understood, or until the vessels shall have passed each other.

Rule III. Steam vessels are forbidden to use what has become technically known among pilots as "cross signals"—that is, answering one whistle with two, and answering two whistles with one. In all cases, and under all circumstances, a pilot receiving either of the whistle signals provided in the rules, which for any reason he deems injudicious to comply with, instead of answering it with a cross signal, shall at once sound the danger signal and observe the rule applying thereto (Rule II).

Rule IV. The signals for passing, by the blowing of the whistle, shall be given and answered by pilots in compliance with these rules, not only when meeting "head and head," or nearly so, but at all times when passing or meeting at a distance within a half mile of each other, and whether passing to the starboard or port.

### Situations

Rule V. When steamers are approaching each other "head and head," or nearly so, it shall be the duty of each steamer to pass on the port side of the other; and the pilot of either steamer may be first in determining to pursue this course, and thereupon shall give, as a signal of his intention, one short and distinct blast of his whistle, which the pilot of the other steamer shall answer promptly by a similar blast of his whistle, and thereupon such steamers shall pass on the port side of each other. But if the courses of such steamers are so far on the starboard of each other as not to be considered by pilots as meeting "head and head," or nearly so, the pilot so first deciding shall immediately give two short and distinct blasts of his whistle, which the pilot of the other steamer shall



answer promptly by two similar blasts of his whistle, and they shall pass on the starboard side of each other: Provided, however, that in all narrow channels where there is a current and in the rivers St. Mary, St. Clair, Detroit, Niagara, and St. Lawrence, when two steamers are meeting, the descending steamer shall have the right of way, and shall, before the vessels shall have arrived within the distance and one-half mile of each other, give the signal necessary to indicate which side she elects to take.

In the night, steamers will be considered as meeting "head and head" so long as both the colored lights of each are in view of the other.

Rule VI. Whenever a steamer is nearing a short bend or curve in the channel, where, from the height of the banks or other cause, a steamer approaching from the opposite direction cannot be seen for a distance of half a mile, the pilot of such steamer, when he shall have arrived within half a mile of such curve or bend, shall give a signal by one long blast of the whistle, which signal shall be answered by a similar blast, given by the pilot of any steamer within hearing that may be approaching on the other side, and within half a mile of such bend or curve. Should such signal be so answered by a steamer upon the further side of such bend, then the usual signals for meeting and passing shall immediately be given and answered; but if the first signal of such pilot be not answered, he is to consider the channel clear and govern himself accordingly.

Rule VII. When a steamer is moved from its dock or berth, and other steamers are liable to approach such steamer from any direction, such steamer and any approaching steamer shall give the same signals as in case of steamers meeting at a bend; but immediately after clearing the dock or berth as to be fully in sight they shall be governed by the rules for passing.

Rule VIII. When one steamer is overtaking another, and the pilot of a steamer which is astern shall desire to pass on the right or starboard hand of the steamer ahead, he shall give one short blast of the whistle, as a signal of such desire and intention, and shall put his helm to port; or if he shall desire to pass on the left or port side of the steamer ahead, he shall give two short blasts of the whistle as a signal of such desire and intention, and shall put his helm to starboard, and the pilot of the steamer ahead shall answer by the same signals; or if he does not think it safe for the steamer astern to attempt to pass at that point, he shall immediately signify the same by giving four or more short and rapid blasts of the whistle, and under no circumstances shall the steamer astern

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attempt to pass the steamer ahead until such time as they have reached a point where it can be safely done, when said steamer ahead shall signify her willingness by blowing the proper signals. The boat ahead shall in no case attempt to cross the bow or crowd upon the course of the passing steamer.

Every vessel coming up with another vessel from any direction more than two points abaft her beam—that is, in such a position, with reference to the vessel which she is overtaking, that at night she would be unable to see either of that vessel's side lights—shall be deemed to be an overtaking vessel; and no subsequent alteration of the bearing between the two vessels shall make the overtaking vessel a crossing vessel within the meaning of these rules, or relieve her of the duty of keeping clear of the overtaken vessel until she is finally passed and clear.

As by day the overtaking vessel cannot always know with certainty whether she is forward of or abaft this direction from the other vessel, she should, if in doubt, assume that she is an overtaking vessel and keep out of the way.

Rule IX. In all channels less than five hundred feet in width, no steam vessel shall pass another going in the same direction unless the steam vessel ahead shall be disabled or signify her willingness that the steam vessel astern shall pass, when the steam vessel astern may pass, subject, however, to the other rules applicable to such a situation. And when steam vessels proceeding in opposite directions are about to meet in such channels, both such vessels shall be slowed down to a moderate speed, according to the circumstances.

Rule X. When two steamers are approaching each other at right angles or obliquely so as to involve risk of collision, other than when one steamer is overtaking another, the steamer which has the other on her own port side shall hold her course and speed; and the steamer which has the other on her own starboard side shall keep out of the way of the other by directing her course to starboard so as to cross the stern of the other steamer, or, if necessary to do so, slacken her speed or stop or reverse. The steamer having the other on her own port bow shall blow one blast of her whistle as a signal of her intention to cross the bow of the other, holding her course and speed, which signal shall be promptly answered by the other steamer by one short blast of her whistle as a signal of her intention to direct her course to starboard so as to cross the stern of the other steamer or otherwise keep clear.

If from any cause whatever the conditions covered by this situation are such as to prevent immediate compliance with each other's

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signals, the misunderstanding or objection shall be at once made apparent by blowing the danger signal, and both steamers shall be stopped, and backed if necessary, until signals for passing with safety are made and understood.

Rule XI. When two steamers are approaching each other at right angles or obliquely, other than when one steamer is overtaking another, so that the steamer having the other on her own starboard side may cross the bow of the other, without involving risk of collision, the steamer having the other on her own starboard side may cross the bow of the other. If the steamers are within half a mile of each other the steamer having the other on her own starboard side shall give, as a signal of her intention to cross the bow of the other, two short and distinct blasts of her whistle, which, if assented to, the other steamer shall promptly answer by two similar blasts of her whistle, when the steamer having the other on her own starboard bow may cross the bow of the other, in which case the steamer having the other on her own port side shall keep out of the way of the other. If, however, the steamer having the other on her own port side deems it dangerous for the other steamer to cross her bow, she shall sound the danger signal, in which case both steamers shall be stopped, and backed if necessary, until signals for passing with safety are made, answered, and understood.

Rule XII. When a steam vessel and a sailing vessel are proceeding in such directions as to involve risk of collision the steam vessel shall keep out of the way of the sailing vessel.

Rule XIII. In obeying and construing these rules due regard shall be had to all dangers of navigation and collision and to any special circumstances which may render a departure from the above rules necessary in order to avoid immediate danger.

### Fog Signals

Rule XIV. Whenever there is thick weather by reason of fog, mist, falling snow, heavy rain storms, or other causes, whether by day or by night, fog signals shall be used as follows:

A steam vessel under way, excepting only a steam vessel with raft in tow, shall sound at intervals of not more than one minute three distinct blasts of her whistle.

A steamer with a raft in tow shall sound at intervals of not more than one minute a screeching or Modoc whistle for from three to five seconds.

Every vessel in tow of another vessel shall, at intervals of one minute, sound four bells on a good and efficient and properly placed

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bell as follows: By striking the bell twice in quick succession, followed by a little longer interval, and then again striking twice in quick succession (in the manner in which four bells is struck in indicating time).

Any vessel at anchor and any vessel aground in or near a channel or fairway shall, at intervals of not more than two minutes, ring the bell rapidly for three to five seconds.

### Speed to be Moderate in Fog, and so Forth

Rule XV. Every steam vessel shall, in thick weather, by reason of fog, mist, falling snow, heavy rain storms, or other causes, go at moderate speed. A steam vessel hearing, apparently not more than four points from right ahead, the fog signal of another vessel, shall at once reduce her speed to bare steerageway, and navigate with caution until the vessels shall have passed each other.

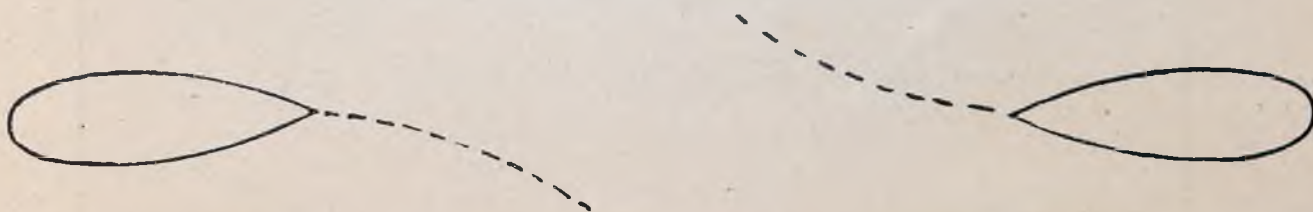
### Posting of Pilot Rules

On steam and other motor vessels of over 100 gross tons, two copies of the placard form of these rules (Form 807) shall be kept posted up in conspicuous places in the vessel, one copy of which shall be kept posted up in the pilot house. On steam and other motor vessels of over 25 gross tons and not over 100 gross tons, two copies of the placard form of pilot rules shall be kept on board, one copy of which shall be kept posted up in the pilot house. On steam and other motor vessels of 25 gross tons and under, two copies of the placard form of pilot rules shall be kept on board, and, where practicable, one copy thereof shall be kept conspicuously posted up in the vessel. (Authority: Section 3, act of Congress approved February 8, 1895.)

### Diagrams

The following diagrams are intended to illustrate the working of the system of colored lights and pilot rules:

#### First Situation



Here the two colored lights visible to each will indicate their direct approach "head and head" toward each other. In this situa-

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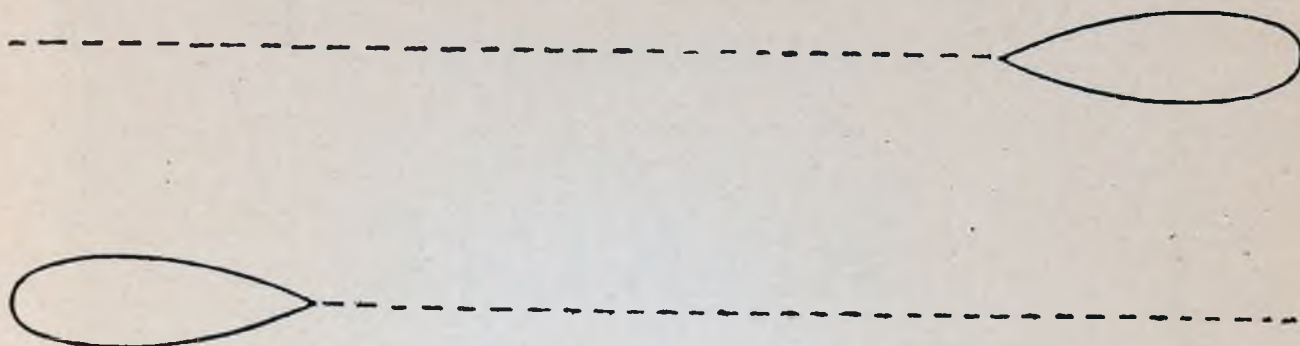
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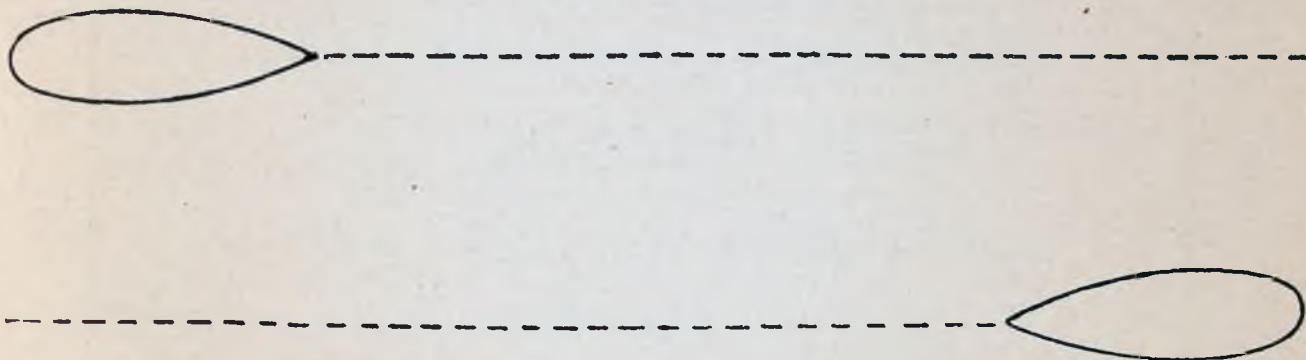
tion it is a standing rule that both shall put their helms to port and pass on the port side of each other, each having previously given one blast of the whistle.

### Second Situation



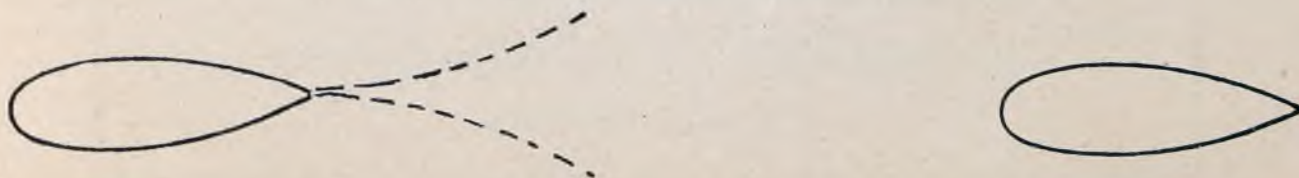
In this situation the red light only will be visible to each, the screens preventing the green lights from being seen. Both vessels are evidently passing to port of each other, which is rutable in this situation, each pilot having previously signified his intention by one blast of the whistle.

### Third Situation



In this situation the green light only will be visible to each, the screens preventing the red light from being seen. They are therefore passing to starboard of each other, which is rutable in this situation, each pilot having previously signified his intention by two blasts of the whistle.

### Fourth Situation



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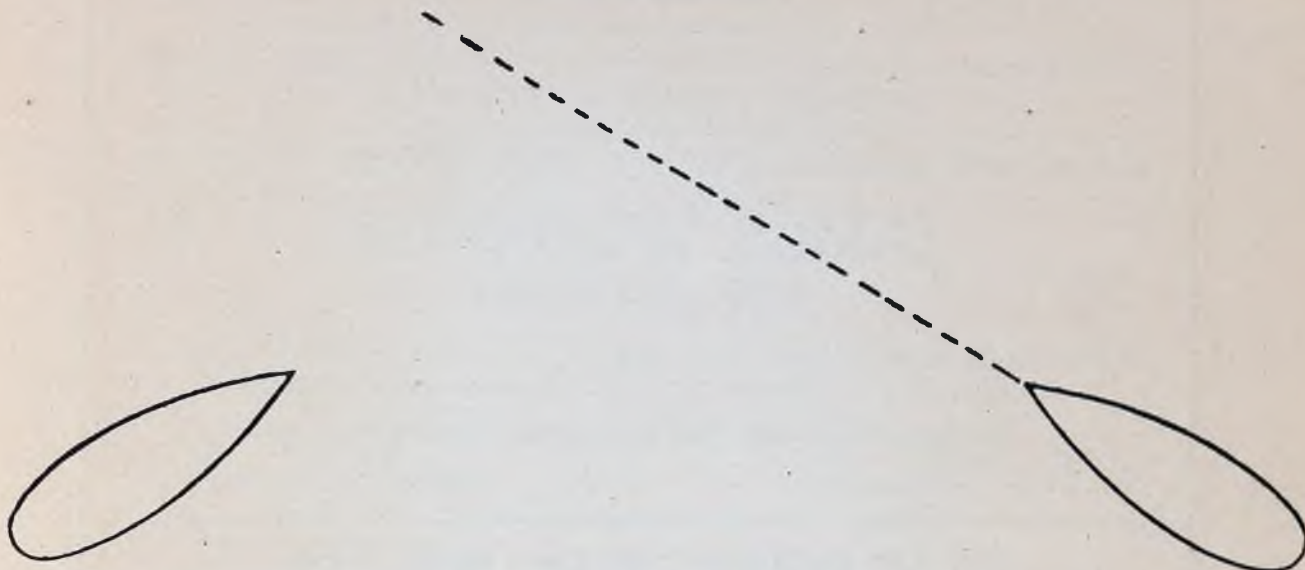
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In this situation one steamer is overtaking another steamer from some point within the angle of two points abaft the beams of the overtaken steamer. The overtaking steamer may pass on the starboard or port side of the steamer ahead after the necessary signals for passing have been given, with assent of the overtaken steamer, as prescribed in Rule VIII.

#### Fifth Situation



In this situation two steamers are approaching each other at right angles or obliquely in such manner as to involve risk of collision, other than where one steamer is overtaking another.

The steamer which has the other on her own port side shall hold course and speed, and the other shall keep clear by crossing astern of the steamer that is holding course and speed, or if necessary to do so, shall slacken her speed or stop or reverse.

Both steamers shall otherwise observe the provisions of Rule X with respect to the signals for passing and the danger signal.

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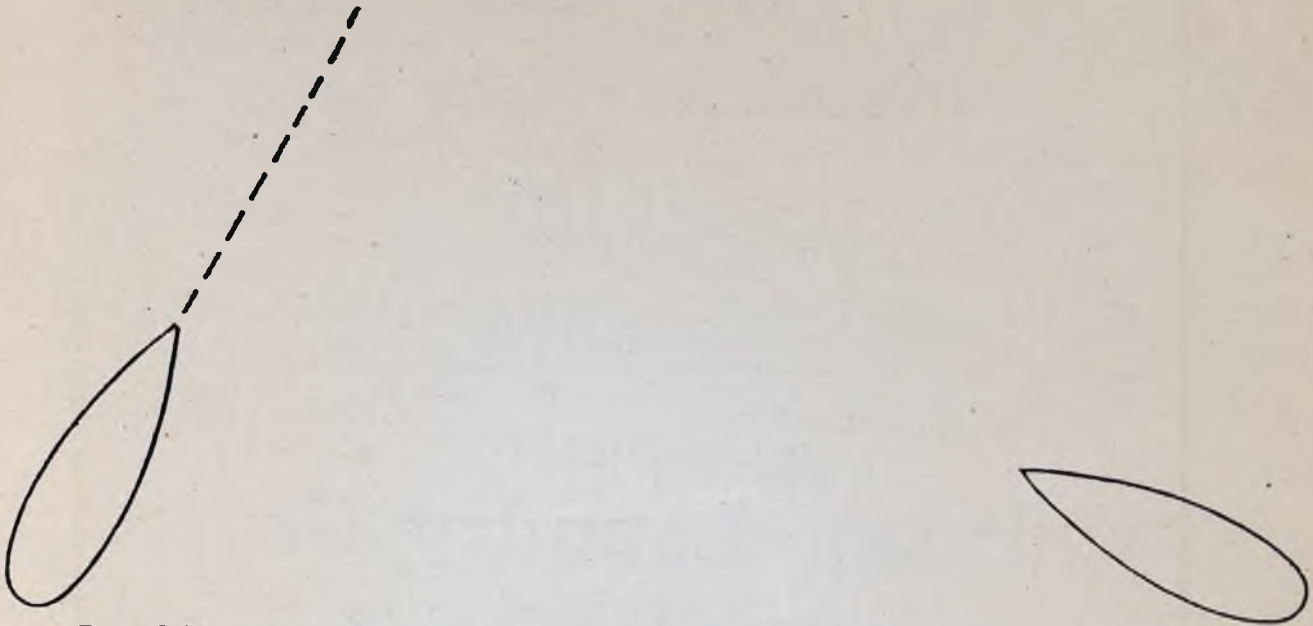
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## Sixth Situation



In this situation two steamers are approaching each other at right angles or obliquely without involving risk of collision, the course and speed of both being such as would clearly allow the steamer having the other on own starboard side to cross the bow of the other without interfering with the course and speed of the other. In this case the steamer having the other on own starboard side may cross ahead of the other, after giving the necessary signals, and receiving the assent of the other steamer, when within half a mile of each other, as provided in Rule XI.

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**RULES OF THE ROAD FOR THE GREAT LAKES, KNOWN AS  
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An act to regulate navigation on the Great Lakes and their connecting and tributary waters.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the following rules for preventing collisions shall be followed in the navigation of all public and private vessels of the United States upon the Great Lakes and their connecting and tributary waters as far east as Montreal.

**Steam and Sail Vessels**

Rule 1. Every steam vessel which is under sail and not under steam shall be considered a sail vessel; and every steam vessel which is under steam, whether under sail or not, shall be considered a steam vessel. The word steam vessel shall include any vessel propelled by machinery. A vessel is under way within the meaning of these rules when she is not at anchor or made fast to the shore, or aground.

**Lights**

Rule 2. The lights mentioned in the following rules and no others shall be carried in all weathers from sunset to sunrise. The word visible in these rules when applied to lights shall mean visible on a dark night with a clear atmosphere.

Rule 3. Except in the cases hereinafter expressly provided for, a steam vessel when under way shall carry:

(a) On or in front of the foremast, or if a vessel without a foremast, then in the fore part of the vessel, at a height above the hull of not less than twenty feet, and if the beam of the vessel exceeds twenty-feet, then at a height above the hull not less than such beam, so, however, that such height need not exceed forty feet, a bright white light so constructed as to show an unbroken light over an arc of the horizon of twenty points of the compass, so fixed as to throw the light ten points on each side of the vessel, namely, from right ahead to two points abaft the beam on either side, and of such character as to be visible at a distance of at least five miles.

(b) On the starboard side, a green light, so constructed as to throw an unbroken light over an arc of the horizon of ten points of the compass, so fixed as to throw the light from right ahead to two

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points abaft the beam on the starboard side, and of such a character as to be visible at a distance of at least two miles.

(c) On the port side, a red light, so constructed as to show an unbroken light over an arc of the horizon of ten points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on the port side, and of such a character as to be visible at a distance of at least two miles.

(d) The said green and red lights shall be fitted with inboard screens projecting at least three feet forward from the light, so as to prevent these lights from being seen across the bow.

(e) A steamer of over one hundred and fifty feet register length shall also carry when under way an additional bright light similar in construction to that mentioned in subdivision (a), so fixed as to throw the light all around the horizon and of such a character as to be visible at a distance of at least three miles. Such additional light shall be placed in line with the keel at least fifteen feet higher from the deck and more than seventy-five feet abaft the light mentioned in subdivision (a).

### Vessels Towing

Rule 4. A steam vessel having a tow other than a raft shall in addition to the forward bright light mentioned in subdivision (a) of rule three, carry in a vertical line not less than six feet above or below that light a second bright light of the same construction and character and fixed and carried in the same manner as the forward bright light mentioned in said subdivision (a) of rule three. Such steamer shall also carry a small bright light abaft the funnel or after mast for the tow to steer by, but such light shall not be visible forward of the beam.

Rule 5. A steam vessel having a raft in tow shall, instead of the forward lights mentioned in rule four, carry on or in front of the foremast, or if a vessel without a foremast, then in the fore part of the vessel, at height above the hull of not less than twenty feet and if the beam of the vessel exceeds twenty feet, then at a height above the hull not less than such beam, so, however, that such height need not exceed forty feet, two brights in a horizontal line athwartships and not less than eight feet apart, each so fixed as to throw the light all around the horizon and of such character as to be visible at a distance of at least five miles. Such steamer shall also carry the small bright steering light aft, of the character and fixed as required in rule four.

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Rule 6. A sailing vessel under way and any vessel being towed shall carry the side lights mentioned in rule three.

A vessel in tow shall also carry a small bright light aft, but such light shall not be visible forward of the beam.

Rule 7. The lights for tugs under thirty tons register, whose principal business is harbor towing and for boats navigating only on the River St. Lawrence, also ferryboats, rafts, and canal boats, shall be regulated by rules which have been or may hereafter be prescribed by the Board of Supervising Inspectors of Steam Vessels.

Rule 8. Whenever, as in the case of small vessels under way during bad weather, the green and red side lights cannot be fixed, these lights shall be kept at hand lighted and ready for use, and shall, on the approach of or to other vessels, be exhibited on their respective sides in sufficient time to prevent collision, in such manner as to make them most visible, and so that the green light shall not be seen on the port side, nor the red light on the starboard side, nor, if practicable, more than two points abaft the beam, on their respective sides. To make the use of these portable lights more certain and easy, they shall each be painted outside with the color of the light they respectively contain, and shall be provided with suitable screens.

Rule 9. A vessel under one hundred and fifty feet register length when at anchor, shall carry forward, where it can best be seen, but at a height not exceeding twenty feet above the hull, a white light in a lantern constructed so as to show a clear, uniform, and unbroken light, visible all around the horizon, at a distance of at least one mile.

A vessel of one hundred and fifty feet or upward in register length, when at anchor, shall carry in the forward part of the vessel, at a height of not less than twenty and not exceeding forty feet above the hull, one such light, and at or near the stern of the vessel, and at such a height that it shall be not less than fifteen feet lower than the forward light, another such light.

Rule 10. Produce boats, canal boats, fishing boats, rafts, or other water craft navigating any bay, harbor, or river by hand power, horse-power, sail, or by the current of the river, or which shall be anchored or moored in or near the channel or fairway of any bay, harbor, or river, and not otherwise provided for in these rules, shall carry one or more good white lights, which shall be placed in such manner as shall be prescribed by the Board of Supervising Inspectors of Steam Vessels.





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Rule 11. Open boats shall not be obliged to carry the side lights required for other vessels, but shall, if they do not carry such lights, carry a lantern having a green slide on one side and a red slide on the other side; and on the approach of or to other vessels such lantern shall be exhibited in sufficient time to prevent collision, and in such a manner that the green light shall not be seen on the port side, nor the red light on the starboard side. Open boats, when at anchor or stationary, shall exhibit a bright white light. They shall not, however, be prevented from using a flare-up in addition if considered expedient.

Rule 12. Sailing vessels shall at all times, on the approach of any steamer during the night-time, show a lighted torch upon that point or quarter to which such steamer shall be approaching.

Rule 13. The exhibition of any light on board of a vessel of war or revenue-cutter of the United States may be suspended whenever, in the opinion of the Secretary of the Navy, the commander in chief of a squadron, or the commander of a vessel acting singly, the special character of the service may require it.

### Fog Signals

Rule 14. A steam vessel shall be provided with an efficient whistle, sounded by steam or by some substitute for steam, placed before the funnel not less than eight feet from the deck, or in such other place as the local inspectors of steam vessels shall determine, and of such character as to be heard in ordinary weather at a distance of at least two miles, and with an efficient bell, and it is hereby made the duty of the United States local inspectors of steam vessels when inspecting the same to require each steamer to be furnished with such whistle and bell. A sailing vessel shall be provided with an efficient fog horn and with an efficient bell.

Whenever there is thick weather by reason of fog, mist, falling snow, heavy rainstorms, or other causes, whether by day or by night, fog signals shall be used as follows:

(a) A steam vessel under way, excepting only a steam vessel with raft in tow, shall sound at intervals of not more than one minute three distinct blasts of her whistle.

(b) Every vessel in tow of another vessel shall, at intervals of one minute, sound four bells on a good and efficient and properly placed bell as follows: By striking the bell twice in quick succession, followed by a little longer interval, and then again striking

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twice in quick succession (in the manner in which four bells are struck in indicating time).

(c) A steamer with a raft in tow shall sound at intervals of not more than one minute a screeching or Modoc whistle for from three to five seconds.

(d) A sailing vessel under way and not in tow shall sound at intervals of not more than one minute—

If on the starboard tack with wind forward of abeam, one blast of her fog horn;

If on the port tack with wind forward of the beam, two blasts of her fog horn;

If she has the wind abaft the beam on either side, three blasts of her fog horn.

(e) Any vessel at anchor and any vessel aground in or near a channel or fairway shall at intervals of not more than two minutes ring the bell rapidly for three to five seconds.

(f) Vessels of less than 10 tons registered tonnage not being steam vessels, shall not be obliged to give the above-mentioned signals, but if they do not they shall make some other efficient sound signal at intervals of not more than one minute.

(g) Produce boats, fishing boats, rafts, or other water craft navigating by hand power or by current of the river, or anchored or moored in or near the channel or fairway and not in any port, and not otherwise provided for in these rules, shall sound a fog horn, or equivalent signal, at intervals of not more than one minute.

Rule 15. Every vessel shall, in thick weather, by reason of fog, mist, falling snow, heavy rainstorms, or other causes, go at moderate speed. A steam vessel hearing apparently not more than four points from right ahead, the fog signal of another vessel shall at once reduce her speed to bare steerage way, and navigate with caution until the vessels shall have passed each other.

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## STEERING AND SAILING RULES

### Sailing Vessels

Rule 16. When two sailing vessels are approaching one another so as to involve risk of collision one of them shall keep out of the way of the other, as follows, namely:

(a) A vessel which is running free shall keep out of the way of a vessel which is close hauled.

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(b) A vessel which is close hauled on the port tack shall keep out of the way of a vessel which is close hauled on the starboard tack.

(c) When both are running free, with the wind on different sides, the vessel which has the wind on the port side shall keep out of the way of the other.

(d) When they are running free, with the wind on the same side, the vessel which is to windward shall keep out of the way of the vessel which is to leeward.

### Steam Vessels

Rule 17. When two steam vessels are meeting end on, or nearly end on, so as to involve risk of collision, each shall alter her course to starboard, so that each shall pass on the port side of the other.

Rule 18. When two steam vessels are crossing so as to involve risk of collision the vessel which has the other on her own starboard side shall keep out of the way of the other.

Rule 19. When a steam vessel and a sailing vessel are proceeding in such directions as to involve risk of collision the steam vessel shall keep out of the way of the sailing vessel.

Rule 20. Where, by any of the rules herein prescribed, one of two vessels shall keep out of the way, the other shall keep her course and speed.

Rule 21. Every steam vessel which is directed by these rules to keep out of the way of another vessel shall, on approaching her, if necessary, slacken her speed or stop or reverse.

Rule 22. Notwithstanding anything contained in these rules every vessel overtaking any other shall keep out of the way of the overtaken vessel.

Rule 23. In all weathers every steam vessel under way in taking any course authorized or required by these rules shall indicate that course by the following signals on her whistle, to be accompanied whenever required by corresponding alteration of her helm; and every steam vessel receiving a signal from another shall promptly respond with the same signal, or, as provided in Rule Twenty-six:

One blast to mean, "I am directing my course to starboard."

Two blasts to mean, "I am directing my course to port." But the giving or answering signals by a vessel required to keep her course shall not vary the duties and obligations of the respective vessels.

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Rule 24. That in all narrow channels where there is a current, and in the rivers St. Mary, St. Clair, Detroit, Niagara, and St. Lawrence, when two steamers are meeting, the descending steamer shall have the right of way, and shall, before the vessels shall have arrived within the distance of one-half mile of each other, give the signal necessary to indicate which side she elects to take.

Rule 25. In all channels less than five hundred feet in width, no steam vessel shall pass another going in the same direction unless the steam vessel ahead be disabled or signify her willingness that the steam vessel astern shall pass, when the steam vessel astern may pass subject however, to the other rules applicable to such a situation. And when steam vessels proceeding in opposite directions are about to meet in such channels, both such vessels shall be slowed down to a moderate speed, according to the circumstances.

Rule 26. If the pilot of a steam vessel to which a passing signal is sounded, deems it unsafe to accept and assent to said signal, he shall not sound a cross signal; but in that case, and in every case where the pilot of one steamer fails to understand the course or intention of an approaching steamer, whether from signals being given or answered erroneously, or from other causes, the pilot of such steamer so receiving the first passing signal, or the pilot so in doubt, shall sound several short and rapid blasts of the whistle; and if the vessels shall have approached within half a mile of each other both shall reduce their speed to bare steerageway, and, if necessary, stop and reverse.

Rule 27. In obeying and construing these rules due regard shall be had to all dangers of navigation and collision and to any special circumstances which may render a departure from the above rules necessary in order to avoid immediate danger.

Rule 28. Nothing in these rules shall exonerate any vessel, or the owner or master or crew thereof, from the consequences of any neglect to carry lights or signals, or of any neglect to keep a proper lookout, or of a neglect of any precaution which may be required by the ordinary practice of seamen, or by the special circumstances of the case.

Sec. 2. That a fine not exceeding two hundred dollars may be imposed for the violation of any of the provisions of this act. The vessel shall be liable for the said penalty, and may be seized and proceeded against, by way of libel, in the district court of the United States for any district within which such vessel may be found.

Sec. 3. That the Secretary of Commerce and Labor of the United

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States shall have authority to establish all necessary regulations, not inconsistent with the provisions of this act, required to carry the same into effect.

The Board of Supervising Inspectors of the United States shall have authority to establish such regulations to be observed by all steam vessels in passing each other, not inconsistent with the provisions of this act, as they shall from time to time deem necessary; and all regulations adopted by the said Board of Supervising Inspectors under the authority of this act, when approved by the Secretary of Commerce and Labor shall have the force of law. Two printed copies of any such regulations for passing, signed by them, shall be furnished to each steam vessel, and shall at all times be kept posted up in conspicuous places on board.

Sec. 4. That all laws or parts of laws, so far as applicable to the navigation of the Great Lakes and their connecting and tributary waters as far east as Montreal, inconsistent with the foregoing rules are hereby repealed.

Sec. 5. That this act shall take effect on and after March first, eighteen hundred and ninety-five.

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## RULES AND REGULATIONS GOVERNING THE MOVEMENTS AND ANCHORAGE OF VESSELS

**Rule 1. Speed.**—No vessel navigating the St. Mary's river shall proceed at a greater speed than 10 statute miles per hour over the ground between Everens Point and the northern float lights in lower Hay Lake, marking the end of the Middle Neebish Channel, nor between the cribs in Mud Lake and the cribs in Hay Lake, marking the lower and upper ends, respectively, of the West Neebish Channel, nor between the crib light in upper Hay Lake opposite Sixmile Point and the dike at Bayfield Shoal, nor between the western end of St. Mary's Falls Canal and Big Point.

Vessels of 500 tons or less are exempt from the provisions of this rule.

Vessels navigating the St. Mary's River may proceed at full speed and pass other vessels moving in the same direction between Point Detour and the Mud Lake beacon in the northern part of Mud Lake, and in deep water in Hay Lake. Upbound vessels may also proceed at full speed and pass other vessels going in the same direction between Mud Lake beacon and Everens Point.

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No vessel passing another vessel shall move at a rate of speed greater than ten statute miles per hour over the ground. (See also Rule V.)

**Rule II. Middle and West Neebish Channels.**—No upbound vessels shall pass the St. Mary's River by the way of the West Neebish Channel, and no downbound vessels shall pass by way of the Middle Neebish Channel, except vessels of 500 tons or less and vessels making regular local stops on these channels.

**Rule III. Upbound vessels passing.**—Upbound vessels shall not pass over vessel moving in the same direction between Everens Point and the red gas buoy at lower end of little Mud Lake on the Dark Hole range, nor between the second red spar buoy east of the Middle Neebish Channel in Hay Lake, nor between the crib light in upper Hay Lake opposite Sixmile Point and the dike at Bayfield Shoal, nor between the west end of St. Mary's Falls Canal pier and Big Point.

Upbound vessels may pass other vessels going in the same direction in Mud Lake below Everens Point in deep water in Hay Lake.

**Rule IV. Downbound vessels passing.**—Downbound vessels shall not pass other vessels moving in the same direction between Big Point and the St. Mary's Falls Canal, nor between the dike at Bayfield Shoal and the crib light in upper Hay Lake opposite Sixmile Point, nor between the crib lights in lower Hay Lake, making the entrance to the West Neebish Channel, and the crib lights marking the lower end of the West Neebish Channel near the Mud Lake beacon.

Downbound vessels may pass other vessels going in the same direction in deep water in Hay Lake and in Mud Lake below the Mud Lake beacon.

**Rule 5.** In case one steamer desires to pass another going in the same direction on said river, at a point where such passing is permitted by these rules, the pilot of the steamer astern shall, if he intends to pass the steamer ahead on the right hand or starboard side, indicate such intention by giving one short blast of the steam whistle, and if he intends to pass such steamer ahead on the left hand or port side, he shall indicate such intention by giving two short blasts of the steam whistle. Upon the pilot of one steamer astern of another giving such signal, the pilot of the steamer ahead shall immediately answer by giving the same signal; but if he does not think it safe for the steamer astern to attempt to pass at that

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point, he shall immediately signify the same by giving several short and rapid blasts of the steam whistle; and under no circumstances shall the steamer astern attempt to pass the steamer ahead until such time as they have reached a point where it can be safely done, when said steamer ahead shall signify her willingness by blowing the proper signals; then the steamer ahead shall slacken to a slow rate of speed, and the steamer astern shall pass the overtaken steamer, giving the overtaken steamer as wide a berth as possible.

Steamers bound in opposite directions shall slow to half speed within one-quarter of a mile of each other until each has passed the other.

Rule 6. The patrolling vessels of the revenue cutter service shall always have the right of way over all other vessels, as indicated by the sailing signals given by any such patrolling vessel.

Rule 7. Three distinct blasts of the steam whistle, when sounded from a patrolling vessel, will indicate that the vessel to which such signal is given is proceeding at too high rate of speed, and such vessel must immediately moderate her speed accordingly.

Rule 8. Four long blasts of the steam whistle, when sounded from a patrolling vessel, will indicate that the vessel to which such signal is given must stop until further orders from the patrolling vessel.

Rule 9. Two red lanterns, one above the other, hoisted on a patrolling vessel at night, will indicate to the vessel to which such signal is given that such vessel must stop and not proceed farther toward the position where such lights are displayed.

Rule 10. No vessel or raft shall anchor in any of the improved channels now abreast of the government piers at Sault Ste. Marie, except in distress or during a fog, and any vessel so anchored must always shift her anchorage when so directed by the officer in charge of a patrolling vessel to the spot designated by such officer.

Rule 11. Vessels navigating the St. Mary's river may anchor between Point Detour and Mud Lake turning buoy, and at Sailors' Encampment close to the wharves of the sawmill; in Hay Lake between the Neebish and Little Rapids channel outside of the channel as indicated by the ranges, but nothing in this rule shall be construed to prohibit any vessel from lying alongside of any wharf in said river.

Rule 12. Rafts being towed in the St. Mary's river will be required to use what is termed the "old or St. George channel."

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From Harwood point to Mud Lake turning buoy they will move at the time designated by the officer in charge of the patrolling vessel. When lying by they must be moored out of the channel.

Rule 13. In navigating the St. Mary's river, in all cases where the foregoing rules are not applicable, the attention of masters and pilots is called to the sailing rules contained in the act of Congress of Feb. 8, 1895.

Rule 14. All vessels navigating the St. Mary's river, in passing dredges and vessels at work on improvements to the channel, will be required to slacken their speed upon such dredge or other vessels engaged in such improvement giving the signal of three distinct blasts of the steam whistle.

Rule 15. The pilot of every steamer descending the St. Mary's river shall, when abreast of the Dark Hole gas buoy, and before passing around the bend of said river at Sailors' Encampment, give a signal of one blast of the steam whistle of 10 seconds' duration, which signal shall be answered by a blast of the steam whistle of the same duration by any vessel ascending said river within hearing. The pilot of every steamer ascending said river, not having heard such signal from a descending steamer, shall, when abreast of Everens Point, and before passing around the bend of said river at Sailors' Encampment, give a signal of one blast of the steam whistle of 10 seconds' duration, which shall be answered by a blast of the steam whistle of the same duration by any vessel descending said river within hearing. After such signal of one blast of the steam whistle of 10 seconds' duration shall have been given and answered, the usual passing signal must be given.

Vessels of 500 tons or less and local boats are alone permitted to pass down this channel.

Rule 16. Any steamer approaching a tug towing a dredge or scow moving in the same direction may pass such tow by giving the proper signal indicating upon which side of such tow such steamer will pass, and it shall be the duty of the pilot of any such tug to sheer on the side of the channel indicated by such passing signal and give the passing steamer all possible room.

Rule 17. No steamer stemming the current through the Dyke and Island Cut shall be allowed to tow more than one vessel without the aid of a tug unless such steamer has the power to move the tow over the ground at the rate of at least four miles an hour.

Rule 18. No steamer navigating the St. Mary's river, either ascending or descending, shall pass another steamer or steamers

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moving either in the same or opposite direction, in such a position that more than two steamers shall be abreast of each other when thus passing. In case three steamers are liable to pass in a position where more than two of them will be abreast in passing, the overtaking steamer shall check its speed within a quarter of a mile of the overtaken steamer in order to avoid passing in such position.

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Prop. Canadian.  
Prop. City of Hamilton.  
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Prop. Donnacona.  
Prop. Dundee.  
Prop. Dunelm.  
Prop. Emperor.  
Prop. Empress of Fort William.  
Prop. Empress of Midland.  
Prop. Fairfax.  
Prop. Fordonian.  
Prop. Glenellah.  
Prop. Haddington.  
Prop. Hamiltonian.  
Prop. Juno.  
Prop. Kenora.  
Prop. Martian.  
Prop. Midland King.  
Prop. Midland Prince.  
Prop. Midland Queen.  
Str. Morden, W. Grant.  
Prop. Neepawah.  
Prop. Renvoyle.  
Prop. Rosedale.  
Prop. Sarnian.  
Prop. Stadacona.  
Prop. Strathcona.  
Prop. Tagona.  
Prop. Wahcondah.  
Prop. Water Lily.  
Prop. Egan, Wiley M.  
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Prop. Doric.  
Prop. Germanic.  
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Prop. Noronic.  
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S. W. Belleville.  
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Prop. Brockville.  
Prop. Caspian.  
S. W. Kingston.  
S. W. Longueuil.  
S. W. Montreal.  
S. W. Murray Bay.  
Prop. New Island Wanderer.  
Prop. News Boy.  
Prop. North King.  
S. W. Pierrepont.  
S. W. Quebec.  
Prop. Ramona.  
S. W. Rapids King.  
T. S. Rapids Prince.  
T. S. Rapids Queen.  
S. W. St. Irene.  
S. W. St. Lawrence.  
T. S. Saguenay.

Prop. Syracuse.  
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Str. Kewatin.  
Str. Manitoba.
- No. 59 Canadian Pacific Railway Co., Windsor, Ont.  
Str. Michigan.  
Str. Ontario.
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Schr. Day, Eliza.
- No. 61 Carrollton Steamship Co., Saginaw, Mich.  
Str. Langell Boys.
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Str. Princess.
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Str. Annie Laura.
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Bge. Bacon, Melvin S.

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Str. Ossifrage.
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Sch. Taylor, J. V.
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Str. City of Mt. Clemens.
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Rochester Transportation Co.  
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Str. Soo City.
- No. 79 Cleveland-Cliffs Iron Co., Rockefeller Bldg., Cleveland,  
Ohio.  
Grand Island Steamship Co.  
Str. Andaste.  
Str. Choctaw.  
Str. Frontenac.  
Str. Ishpeming.  
Str. Mather, W. G.  
Str. Michigan.  
Str. Pontiac.  
Str. Sheadle, J. H.  
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- Hopkins Steamship Co.  
Str. Centurion.
- Presque Isle Trans. Co.  
Str. Angeline.  
Str. Presque Isle.  
Str. White, Peter.
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- No. 82 Closser, E. & W., 777 W. Fort St., Detroit, Mich.  
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Monroe Transportation Co.  
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- No. 89 Crosby Transportation Co., Grand Haven, Mich.  
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Schr. Merrill, Julia B.
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Str. Orinoco.  
Str. Osborne, F. M.  
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Str. Saunders, E. N.  
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Bge. Katahdin.
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Str. Liberty.
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Str. Colborn, A. R.  
Str. Hilton.
- No. 104 Dodge, E. J., Put-in-Bay, Ohio.  
Str. Tourist.
- No. 105 Doherty James, Belleville, Ont.  
Schr. Keewatin.
- No. 106 Dominion Iron & Steel Co., Ltd., Sydney, Cape Breton,  
Can.  
Str. Corunna.  
Str. Nevada.
- No. 107 Dominion Transportation Co., Ltd., C. E. Ainsworth, Mgr.,  
Sault Ste. Marie, Mich.  
Str. Caribou.  
Str. Manitou.
- No. 108 Donald Steamship Co., 18 Broadway, New York City.  
Str. Honoreva.  
Str. Norhilda.  
Str. Querida.
- No. 108½ Donnelley, Salvage & Wrecking Co., Ltd., Kingston, Ont  
Bge. Harriet D.
- No. 109 Douglass, George, 371 Ferdinand Ave., Detroit, Mich.  
Str. Gill, Alice M.  
Str. Markham, Geo. C.
- No. 110 Doville Lake Sand & Gravel Co., 424 Water St., Toledo, O.  
Str. Commerce.  
Str. DoVille, R. E.
- No. 111 Emig, T., St. Clair, Mich.  
Str. Jex, H. N.



- Str. Bulgaria.  
Bge. Three Brothers.  
Bge. Keith, Ida.
- No. 112 Empire Coal Co., Ltd., Montreal, Que.  
Bge. Melbourne.
- No. 113 Erickson, James, 440 West 15th St., Milwaukee, Wis.  
Schr. Lake Forest.
- No. 114 Erie Railroad Lake Line, J. C. Maclay, Supt., Buffalo, N. Y.  
Str. Binghamton.  
Str. Brownell, Geo. F.  
Str. Cooke, D. W.  
Str. McCollough, J. C.  
Str. Owego.  
Str. Richardson, G. A.  
Str. Tioga.  
Str. Underwood, F. D.
- No. 115 Erie & Michigan Ry. & Nav. Co., 108 S. LaSalle St.,  
E. E. Wilhelm Traffic Mgr., Chicago, Ill.  
Str. Greene, M. T.
- No. 116 Escanaba & Garden Bay Trans. Co., Escanaba, Mich.  
Str. Saugatuck.
- No. 117 Eureka Coal Co., 149 Clybourn Place, Chicago, Ill.  
Schr. Williams, Ellen.
- No. 118 Fagen, Capt. Joe, Belleville, Ont.  
Schr. Filer, Grace M.
- No. 119 Fair, George E., Mgr., 107 Mail Bldg., Toronto, Ont.  
Farrar Transportation Co., Ltd.  
Str. Collingwood.  
Str. Meaford.
- No. 120 Farrow, H. A., Mgr., Rockefeller Bldg., Cleveland, Ohio.  
Frontier S. S. Co.  
Str. Corrigan, James.  
Str. Meacham, D. B.  
Str. Munro, J. G.
- Niagara Transit Co.  
Str. Rogers, Wm. A.

- Tonawanda Transit Co.**  
Str. Weston, Charles.
- No. 121 Ferris, R. J., Grand Rapids, Mich.  
Schr. Walsh, Lizzie.
- No. 122 Finn & Olsen Freighting Co., Marinette, Wis.  
Str. Carter, W. J.
- No. 123 Fisher, Geo. A., Harbor Beach, Mich.  
Schr. Weaver, Jennie.
- No. 124 Finn & Olsen, Marinette, Wis.  
Schr. Joses.
- No. 125 Flint, J. J. B., Belleville, Ont.  
Schr. Marsh, George A.
- No. 126 Follette, W. H., Tonawanda, N. Y.  
Str. Follette, J. W.
- No. 127 Forwarders Limited, Kingston, Ont.  
Str. Dwyer, W. H.  
Str. Port Colborne.  
Str. Port Dalhousie.
- No. 128 Garey, J. C., Saginaw, Mich.  
Str. Cherokee.  
Str. Holland, Robt.  
Bge. Fassett, T. S.  
Bge. Holland, N. C.  
Bge. Owen, G. B.
- No. 129 Garlock, C. J., Marine City, Mich.  
Bge. Genoa.
- No. 130 Gilbert, W. H., Belleville, Ont.  
Schr. Suffell, W. J.
- No. 131 Gilchrist Transportation Co., John Gilchrist, Mgr., Cleveland, Ohio.  
Str. Maytham, Thomas.  
Str. Mecosta.  
Str. Neosha.  
Str. Oglebay, E. W.  
Str. Wallula.  
Str. Williams, G. F.  
Bge. Tyrone.



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- No. 132 Gillen, Edward, Racine, Wis.  
Str. Rudolph, William.  
Bge. Jones, J. V.  
Bge. Progress.
- No. 133 Gillingham, James, Bayport, Mich.  
Bge. Flint, Sam.
- No. 134 Genzell, John, Wyandotte, Mich.  
Str. Douglass.
- No. 135 Goodrich Transit Co., H. W. Thorp, Mgr., Foot of Michigan Ave., Chicago, Ill.  
Str. Alabama.  
  
Str. Arizona.  
Str. Carolina.  
Str. Chicago.  
Str. Christopher Columbus.  
Str. Georgia.  
Str. Indiana.  
Str. Virginia.
- No. 136 Grace Harbor Lumber Co., Detroit, Mich.  
Str. Toltec.  
Bge. Godfrey, G.
- No. 137 Graham, Colin, Kincardine, Ont.  
Bge. Davis, Lyman C.
- No. 138 Graham & Morton Trans. Co., Chicago, Ill.  
Str. City of Benton Harbor.  
Str. City of Grand Rapids.  
Str. City of Traverse.  
Str. Holland.  
Str. Puritan.
- No. 139 Grand Trunk Railway Co., Windsor, Ont.  
Str. Great Western.  
Str. Huron.  
Str. Landsdowne.
- No. 140 Grand Trunk-Milwaukee Car Ferry Co., Milwaukee, Wis.  
Str. Grand Haven.  
Str. Milwaukee.

- No. 141 Granville, Frank, Chatham, Ont.  
Schr. Hutt, Hattie.
- No. 142 Graves-Bigwood Co., Foot of Hertel Ave., Buffalo, N. Y.  
Str. Mohegan.  
Bge. Mingoe.
- No. 143 Gray, Edward, Detroit, Mich.  
Str. City of Straits.
- No. 144 Gray, R. T., Mgr., Detroit, Mich.  
J. Emery Owen Transportation Co.  
Str. Owen, John.
- No. 145 Great Lakes Engineering Works Co., Detroit, Mich.  
Str. Caledonia.  
Str. Italia.
- No. 146 Great Lakes Steamship Co., Rockefeller Bldg., Cleveland,  
Ohio.  
Str. Brower, A. G.  
Str. Brown, W. W.  
Str. Coulby, Harry.  
Str. Cowle, J. B.  
Str. Denmark.  
Str. Dunn, John, Jr.  
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, Hurlburt W.  
Str. Smith, L. C.  
Str. Smith, Lyman C.  
Str. Smith, Monroe C.  
Str. Smith, Wilbert L.  
Str. Thompson, Smith.  
Str. Warner, C. M.  
Str. Wilkinson, H. S.
- No. 147 Green Bay Vessel Co., Green Bay, Wis.  
Str. Orion.



- No. 148 Green Stone & Quarrying Co., Sawyer, Wis.  
Bge. Adriatic.  
Bge. Butman, Myron.  
Bge. Carpenter, A. A.
- No. 149 Greiling Brothers, Green Bay, Wis.  
Str. Soper, Albert.
- No. 150 Grimsby Beach & South Shore Nav. Co., Grimsby Beach,  
Ont.  
Str. Grimsby.
- No. 152 Hackett Towing & Wrecking Co., Ltd., Amherstburg, Ont.  
Bge. McWilliams, Ed.  
Tug Hackett, F. B.
- No. 153 Hall & Co., F. E., Montreal, Canada.  
Str. Carleton.  
Str. Cardinal.  
Str. Sinbad.
- No. 154 Hall & Eligh, Ltd., Ottawa, Que.  
Str. Roberval.
- No. 155 Hall, James H., Ottawa, Que.  
Str. Westerian.
- No. 156 Hall Coal Co., George, Ogdensburg, N. Y.  
Str. Hall, Henry B.  
Str. Hecla.  
Str. Iselin, Adrian.  
Str. Jones, F. P.  
Str. Mercur, Fred.  
Str. Morley, W. B.  
Str. MacTier, A. D.  
Str. Phenix.  
Str. Robinson, L. W.  
Str. Rugee, John.  
Bge. Mathews, Jennie.  
Bge. Sherman, W. A.
- No. 157 Halvorson, O., Sheboygan, Wis.  
Schr. Nau, Libbie.

No. 158 Hamilton, W. D., Care of Hines Lumber Co., Chicago, Ill.

Schr. Lotus.  
Bge. Jenness, B. W.

No. 159 Hanna & Co., M. A., Mgrs., Leader-News Bldg., Cleveland, Ohio.

**Calumet Transportation Co.**

Str. Agassiz, R. L.  
Str. Flagg, G. A.  
Str. Shaw, Quincy A.  
Str. Warner, Randolph S.  
Bge. Thompson, A. W.  
Bge. Warriner, S. D.

**Cambria Steamship Co.**

Str. Morrell, Daniel J.  
Str. Townsend, Edward Y.

**Eastern Steamship Co.**

Str. Wood, Joseph.

**Franklin Transportation Co.**

Str. Fitch, William F.  
Bge. Maitland, Alex.

**LaBelle Steamship Co.**

Str. LaBelle.

**Mahoning Steamship Co.**

Str. Hanna, Leonard C.  
Str. Donner, W. H.  
Str. Stackhouse, Powell.

**Republic Iron Co.**

Str. Republic.

**Republic Transportation Co**

Str. Brown, W. L.  
Str. Elphicke, M. C.  
Str. French, G. W.

**Scott Steamship Co.**

Str. Saunders, Jr., E. N.  
Str. Turner, J. J.  
Str. Uhrig, Edward A.



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

No. 160 Hanson, Ole, Milwaukee, Wis.  
Schr. Clara.

No. 161 Harlow, W. J., 416 Adams Street, Toledo, O.  
Str. Nipigon.

No. 162 Hart Transportation Co., Sturgeon Bay, Wis.  
Str. Bon Ami.  
Str. Sailor Boy.  
Str. Thistle.

No. 163 Harvey, Henry A., Montreal, Que.  
Str. Omaha.

No. 164 Harvey-Morrison Co., 1410 W. 11th Street, Cleveland,  
Ohio.  
Str. Spalding, Jesse.

Lehigh Steamship Co.  
Str. Lehigh.

No. 165 Hawgood, W. A. & A. H., Mgrs., Perry-Payne Bldg., Cleve-  
land, Ohio.

Acme Transit Co.  
Str. Bransford.  
Str. Hawgood, H. B.  
Str. Holmes, Edwin F.  
Str. Jenks, J. M.  
Str. Umbria.  
Str. Wisconsin.

Hawgood & Avery Transit Co.  
Str. Curry, S. S.

No. 166 Henderson, R. J., Winnipeg, Manitoba.  
Str. Fryer, R. L.

No. 167 Hettler Lumber Co., Herman H., Elston Ave., Chicago, Ill.  
Str. Christie, T. S.  
Str. Hettler, H. H.  
Bge. Interlaken.

- No. 168 Hickey, John, Sault Ste. Marie, Mich.  
Str. Minnie M.
- No. 169 Hill Steamboat Line, Kenosha, Wis.  
Str. City of Marquette.  
Str. Maywood.
- No. 170 Hines Lumber Co., Edward, Chicago, Ill.  
Str. Barth, L. L.  
Str. Hines, L. E.  
Str. Niko.  
Str. Pahlow, Lewis.  
Str. Sawyer, W. H.  
Bge. Ashland.  
Bge. Case, J. I.  
Bge. City of Chicago.  
Bge. Delta.  
Bge. Filer, D. L.  
Bge. Helvetia.  
Bge. Hutchinson, E. C.  
Bge. Norris, A. B.  
Bge. Redfern, C. E.  
Bge. Tilden, S. J.  
Bge. Tuxberry, A. C.
- No. 171 Hinckley-Cornwall Forwarding Co., Alexandria Bay, N. Y.  
Str. Hinckley.  
Str. Isabella H.  
Bge. Jessie.
- No. 172 Hinkelman, Andrew, Marine City, Mich.  
Bge. Melvina.
- No. 173 Hoeft, Paul H., Rogers City, Mich.  
Str. Starke, C. H.
- No. 174 Hoey, W. T., Alpena, Mich.  
Str. Helen C.
- No. 175 Hogan, M. J., Pt. Colborne, Ont.  
Str. Lakeside.
- No. 176 Holmes & Co., W. E., Insurance Exchange Bldg., Chicago,  
Ill.  
Str. Mueller.  
Bge. Halstead.



**Calbick Transportation Co.**  
Str. Ralph, P. J.  
Bge. Connelly Brothers.  
Bge. Harold.

**Kalkaska Steamship Co.**  
Str. Kalkaska.  
Bge. Fryer, R. L.

No. 177 **Horn, Edward H., Mgr.,** 371 Hurlbut Ave., Detroit, Mich.  
Str. Plankinton, John.

No. 178 **Horne, Grant G.,** Sarnia, Ont.  
Str. Hall, S. C.  
Str. Mills, Robert.  
Bge. Brainard, Katie.  
Bge. Jackson, G. K.

No. 179 **Houghton, H.,** Hammond Bldg., Detroit, Mich.  
Str. Mary.

No. 180 **Hutchinson & Co., Mgrs.,** 1011 Leader-News Bldg., Cleveland, Ohio.

**Corsica Transit Co.**  
Str. Corsica.  
Bge. Abyssinia.

**Inland Steamship Co.**  
Str. Block, Joseph.  
Str. Leopold, N. F.

**Jenkins Steamship Co.**  
Str. Jenkins, C. O.  
Str. Shaughnessy, Sir Thomas.  
Str. Squire, F. B.

**Lakewood Steamship Co.**  
Str. Maruba.

**Pioneer Steamship Co.**  
Str. Amazon.  
Str. Augustus, A. A.  
Str. Australia.  
Str. Butler, Jr., J. G.  
Str. Hanna, D. R.

- Str. Hutchinson, J. T.  
Str. McKinney, Price.  
Str. Mullen, Martin.  
Str. Nye, Harold B.  
Str. Paine, W. A.  
Str. Polynesia.  
Str. Stanton, John.  
Str. Sullivan, J. J.  
Str. Walsh, J. P.
- No. 181 Hydraulic Sand & Transit Co., Chicago, Ill.  
Str. Hydro.
- No. 182 Illinois State Militia, Chicago, Ill.  
Str. Commodore.
- No. 183 Imperial Oil Co., Ltd., Sarnia, Ont.  
Str. Imperial.  
Str. Imperoyal.  
Str. Iocoma.  
Bge. "41".
- No. 184 Indiana Transportation Co., W. K. Greenbaum, Mgr., 114  
South Water St., Chicago, Ill.  
Str. Rochester.  
  
Str. Roosevelt, Theodore.  
Str. United States.
- No. 185 International Ferry Co., Buffalo, N. Y.  
Str. Niagara Frontier.  
Str. United Shores.
- No. 186 International Transit Co., Sault Ste. Marie, Ont.  
Str. Algoma.  
Str. Bawating.
- No. 187 Irondequoit Navigation Co., Irondequoit, N. Y.  
Str. Glenn.
- No. 188 Jacques & Sons Co., Ely, Foot of First St., Detroit, Mich.  
Str. Brokate.  
Str. Canisteco.  
Str. Westcott, J. W.



- No. 189 Jacob, C. W., care of Bader Lumber Co., Chicago, Ill.  
Str. Jacob, C. W.
- No. 190 Jex, H. N., 1749 Summit St., Toledo, Ohio.  
Bge. Bloom, Nelson.  
Bge. Clint, D. K.  
Bge. Judd, E. T.
- No. 191 Keenan Brothers, Ltd., Owen Sound, Ont.  
Schr. Magill, C. J.
- No. 192 Kelley, Edward, Wallaceburg, Ont.  
Bge. Cyrenian.
- No. 193 Kelley Island Lime & Transport Co., Leader-News Bldg.,  
Cleveland, Ohio.  
Str. Chisholm, Alva, Jr.  
Str. Clinton.  
Str. Kelley Island.  
Str. Michigan Central.  
Str. Recor, E. P.  
Bge. Cutler, D. G.  
Bge. Kelly, Norman.  
Bge. Pellatt, J. H.
- No. 194 Kendall, Harvey J., Marysville, Mich.  
Str. Kendall, Harvey J.
- No. 195 Keystone Trans. Co. of Canada, Ltd., Montreal, Canada.  
Str. Key Port.  
Str. Keybell.  
Str. Keynor.  
Str. Keyvive.  
Str. Key West.
- No. 196 King, A. B., 2603 Vestry St., Cleveland, Ohio.  
Bge. Francombe, John A.
- No. 197 King Edward Park Co., Ltd., Montreal, Que.  
Str. Duchess of York.
- No. 198 Kinney, A. T., Mgr., Rockefeller Bldg., Cleveland, Ohio.  
Buckeye Steamship Co.  
Str. Wright, A. P.  
Kinney Steamship Co.  
Str. Ashley, J. S.

Str. Caldera.  
Str. Ireland, R. L.  
Str. Upson, A. S.

No. 199 **Kitzinger, Gus, Mgr., Manistee, Mich.**

**Pere Marquette Line Steamers.**

Str. Pere Marquette No. 3.  
Str. Pere Marquette No. 4.  
Str. Pere Marquette No. 5.  
Str. Pere Marquette No. 6.  
Str. Pere Marquette No. 7.  
Str. Pere Marquette No. 8.

No. 200 **Klise, A. B., Sturgeon Bay, Wis.**  
Str. Buckley, Edward.

No. 202 **Kroos, Julius, Sheboygan, Wis.**  
Str. Chipman, Susie.

No. 203 **Kuhn, John, Marine City, Mich.**  
Str. Sicken, M.

No. 204 **La Croix, Peter, Port Huron, Mich.**  
Bge. Brake, William.

No. 205 **Lake Commerce, Ltd., J. F. M. Stewart, Pres., 304 McKinnon Bldg., Toronto, Ont.**  
Str. Valcartier.

No. 206 **Lake Erie Excursion Co., H. S. Fisher, Mgr., Buffalo, N. Y.**  
Str. Americana.  
Str. Canadiana.

No. 207 **Lake Erie Transportation Co., F. J. Maxwell, Mgr., Wade Bldg., Cleveland, Ohio.**  
Str. Mack, W. S.

No. 208 **Lake Erie Navigation Co., Conneaut, Ohio.**  
Str. Marquette & Bessemer No. 1.

No. 209 **Lake Sand Co., R. F. Smith, Mgr., 19 S. LaSalle St., Chicago, Ill.**  
Str. Dahlke, H.  
Str. Gunnell, E.  
Str. Hausler, M. G.



- No. 210 Lake Shore Sand & Gravel Co., 2157 W. 3d St., Cleveland, Ohio.  
Str. Junior.
- No. 211 Lake Shore Stone Co., Milwaukee, Wis.  
Str. Hennipin.  
Str. Topeka.
- No. 212 Langell, J. D., Mgr., Detroit, Mich.  
Lakeside Steamship Co.  
Str. Mitchell, Alfred.
- No. 213 Laroeque, Alphonse, A., Montreal, Que.  
Str. Pennsylvania.
- No. 214 Lawrence, Harry, Marine City, Mich.  
Bge. Teutonia.
- No. 215 Lawrence, Julius, Marine City, Mich.  
Bge. Gawn, Thomas.
- No. 216 Lehigh Valley Railroad Co., C. T. O'Neal, Supt., Buffalo N. Y., Lake Division.  
Str. Bethlehem.  
Str. Mauch Chunk.  
Str. Saranac.  
Str. Seneca.  
Str. Tuscarora.  
Str. Wilkesbarre.
- No. 217 Leszcznski, Jacob, Milwaukee, Wis.  
Schr. Elida.
- No. 218 Limestone Transportation Co., C. D. Bradley, Mgr., Rogers City, Mich.  
Str. White, W. F.
- No. 219 Lindale, T. T., 1109 W. Huron St., Chicago, Ill.  
Schr. Mead, J. H.
- No. 220 Livingstone, William, Detroit, Mich.  
Michigan Navigation Co.  
Str. Livingstone.
- No. 221 Lloyd, Walter S., Duluth, Minn.  
Portage Lake Steamship Co.  
Str. Columbia.  
Str. Plow Boy.

- No. 222 Lockhart, D. O., Sandusky, Ohio.  
Str. Snook, T. W.
- No. 223 Lord, C. H., Trenton, Mich.  
Bge. Sweetheart.
- No. 224 Lozen, J. B., New Baltimore, Mich.  
Bge. Lozen, J. B.
- No. 225 Lutz-Oliver & Co., Michigan City, Ind.  
Str. Parks, O. E.
- No. 226 MacKay-Hall Steamship Co., Ltd., T. E. Hall, Mgr., Mon-  
treal, Can.  
Str. Compton.  
Str. Rhodes, R. R.  
Str. Stanstead.  
Str. Whitaker, Byron.
- No. 227 Mackenzie-Manna Co., Ltd., Toronto, Ont.  
Str. Dalhousie City.
- No. 228 MacKinnon & Scott, Menominee, Mich.  
Bge. Wisconsin.
- No. 229 Marks & Co., Thomas, Dominion Bank Bldg., Toronto, Ont.  
Canadian Northwest Steamship Co., Ltd.  
Str. Atikokan.  
Str. Graham, Geo. A.  
Str. Neebing.  
Str. Paipoonge.
- No. 230 Marquette & Bessemer Dock & Navigation Co., A. Leslie,  
Mgr., Walkerville, Ont.  
Str. Marquette & Bessemer No. 2.
- No. 231 McCarthy, Jerry, Ohio Street, Buffalo, N. Y.  
Bge. Holland, Grace.
- No. 232 McCauley, T., Escanaba, Mich.  
Str. Clarke, Alfred.
- No. 233 McClellan & Co., Bowmanville, Ont.  
Bge. Mowatt, Oliver.
- No. 234 McCullough, William, Port Huron, Mich.  
Bge. Coates, L. B.



- No. 235 McDougall, Neil, Marksville, Ont.  
Str. Michipicoten.
- No. 236 McGibbon & Sons, F., Sarnia, Ont.  
Bge. Cataract.
- No. 237 McLachlan, Colin, Port Huron, Mich.  
McLachlan Transportation Co.  
Str. Bielman, C. F.  
Bge. McLachlan, Mary E.
- No. 238 McLouth, S. C., Marine City, Mich.  
Str. Mentor.  
Str. Prentice, J. H.  
Str. Scranton.  
Bge. Knapp, F. M.  
Bge. Uranus.  
River Transit Co.  
Str. Hazard, W. A.
- No. 239 McMann, R. H., Sarnia, Ont.  
Schr. Sephie.
- No. 240 McMillan, M. B., Dime Bank Bldg., Detroit, Mich.  
American Steamship Co.  
Str. Dimmick, J. K.  
National Steamship Co.  
Str. Bixby, W. K.
- No. 241 McMillan, P. H., Union Trust Bldg., Detroit, Mich.  
Michigan Steamship Co.  
Str. Colonel.  
Wolverine Steamship Co.  
Str. Senator.
- No. 242 McMorran, Henry, Port Huron, Mich.  
Str. Linden.  
Pawnee Boat Co.  
Str. Pawnee.  
Bge. Edwards, J. R.  
Bge. Orton, M. E.  
Port Huron & Sarnia Ferry Co.  
Str. Beard, James.  
Str. Conger, O. D.

- Str. Dormer, Grace.  
Str. Hiawatha.
- No. 243 McSherry, P. J., Toronto, Ont.  
Str. Ongiara.
- No. 244 Mathews Steamship Co., Ltd., J. T. Mathews, Managing  
Director, Board of Trade Bldg., Toronto, Ont.  
Str. Easton.  
Str. Edmonton.  
Str. Malton.  
Str. Masaba.  
Str. Steelton.  
Str. Yorkton.
- No. 245 Mehl, Edward, Scott Block, Erie, Pa.  
Wainwright Steamship Co.  
Str. Wainwright.
- No. 246 Midland Towing & Wrecking Co., Ltd., Midland, Ont.  
Str. Gargantua.  
Str. Reliance.
- No. 247 Midland Transportation Co., Ltd., E. F. Burke, Mgr., Mid-  
land, Ont.  
Str. Chamberlin, C. W.  
Bge. Aloha.
- No. 248 Miller J. C., Parry Sound, Ont.  
Bge. Corisande.
- No. 249 Miller, J. B., Mgr., Traders' Bank Bldg., Toronto, Ont.  
Parry Sound Transportation Co.  
Str. Seguin.
- No. 250 Mills, David W., 1886 Carter Rd., Cleveland, Ohio.  
Port Huron Navigation Co.  
Str. Mills, David W.
- No. 251 Milwaukee Sand & Gravel Co., Milwaukee, Wis.  
Str. Ellen.
- No. 252 Milwaukee Steamship Co., Milwaukee, Wis.  
Str. Flower, R. P.
- No. 253 Milwaukee Western Fuel Co., Milwaukee, Wis.  
Bge. Transfer.  
Bge. Transport.



No. 254 Mitchell, John, Mgr., Rockefeller Bldg., Cleveland, Ohio.  
Gratwick, S. S. Co.

Str. McWilliams, John J.

**Buffalo Steamship Co.**

Str. Agnew, William C.

Str. Clement, Stephen M.

Str. Kennedy, Hugh.

**Cleveland Steamship Co.**

Str. Albright, John J.

Str. Clarke, E. A. S.

Str. Cuddy, Loftus.

Str. Dustin, A. C.

Str. Gratwick, William H.

Str. Hanna, M. A.

Str. Holden, Henderick S.

Str. Lagonda.

Str. Reis, William E.

Str. Scranton, Walter.

Str. Sellwood, Joseph.

Str. Taylor, Moses.

Str. White, Pendennis.

No. 255 Montreal Transportation Co., L. L. Henderson, Mgr., 14  
Place Royal, Montreal, Canada.

Str. Advance.

Str. Fairmount.

Str. Glenmount.

Str. India.

Str. Kinmount.

Str. Northmount.

Str. Rosemount.

Str. Simla.

Str. Storemount.

Str. Westmount.

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. Hector.  
Bge. Hilda.  
Bge. Hiawatha.  
Bge. Kildonan.  
Bge. Kingston.  
Bge. Lapwing.  
Bge. Mamie.  
Bge. Melrose.  
Bge. Montreal.  
Bge. Muskoka.  
Bge. Nadine.  
Bge. Quebec.  
Bge. Selkirk.  
Bge. Thrush.  
Bge. Ungava.  
Bge. Valencia.  
Bge. Winnipeg.

- No. 256 Montreal & Cornwall Navigation Co., Ltd., Cornwall, Ont.  
Str. Brittanic.
- No. 257 Morden, George H., Oakville, Ont.  
Bge. New Dominion.
- No. 258 Morden Transportation Co., Midland, Ont.  
Str. United Lumberman.  
Bge. Jennette.
- No. 259 Morton Salt Co., Robt. K. Warren, Supt., Railway Exchange Bldg., Chicago, Ill.  
Str. Marion.  
Str. Normandie.  
Str. Oades, John.
- No. 260 Moore Steamship Co., Leader-News Bldg., Cleveland, Ohio.  
Str. Moore, J. W.
- No. 261 Mullen Coal Co., Amherstburg, Ont.  
Str. Alaska.



- Str. Otis, John.  
Str. Shores, E. A., Jr.
- No. 262 Murphy, James, Ft. William, Ont.  
Western Navigation Co.  
Str. Kaministiquia.
- No. 263 Mutual Transit Co., W. E. Lloyd, Supt., Buffalo, N. Y.  
Str. Huron.  
Str. Minneapolis.  
Str. North Lake.  
Str. North Sea.  
Str. North Star.  
Str. North Wind.  
Str. Northern King.  
Str. Northern Light.  
Str. Northern Queen.  
Str. Northern Wave.  
Str. Rhodes, William C.  
Str. St. Paul.
- No. 265 Neff, Charles S., 2109 Grand Ave., Milwaukee, Wis.  
Str. Eddy, C. A.  
Str. Neff, Charles S.  
Str. Venezuela.
- No. 266 Nessen Lumber Co., J. O., Peoples Gas Bldg., Chicago, Ill.  
Str. Fletcher, F. W.  
Str. Neff, S. O.  
Str. Nessen, N. J.  
Str. Peters.
- No. 267 Niagara Navigation Co., Ltd., Toronto, Ont.  
Str. Cayuga.  
Str. Chicora.  
Str. Chippewa.  
Str. Corona.  
Str. Macassa.  
Str. Modjeska.  
Str. Turbinia.
- No. 268 Niagara, St. Catharines & Toronto Navigation Co., Ltd.,  
Toronto, Ont.  
Str. Garden City.

- No. 269 Nipigon Transit Co., Port Huron, Mich.  
Str. Ford, J. C.
- No. 270 Northern Lakes Transportation Co., C. W. Bryson, Mgr.,  
Leader-News Bldg., Cleveland, Ohio.  
Northern Lakes S. S. Co.  
Str. Champlain.  
Str. Ontario.  
Str. St. Clair.
- No. 271 Northern Michigan Trans. Co., Chicago, Ill.  
Str. Illinois.  
Str. Kansas.  
Str. Manitou.  
Str. Minnesota.  
Str. Missouri.  
Str. Sterling, J. R.  
Str. Wisconsin.
- No. 272 Northern Steamship Co., Buffalo, N. Y.  
Str. North Land.  
Str. North West.
- No. 273 O'Brien, Patrick, Cleveland, Ohio.  
Bge. Unadilla.
- No. 274 O'Connor, James, Tonawanda, N. Y.  
Bge. Stanley, H. M.
- No. 275 Oakes, Herbert K., Mgr., Rockefeller Bldg., Cleveland, O.  
Cadillac Steamship Co.  
Str. Booth, Edwin L.  
Str. Western Star.  
Franklin Steamship Co.  
Str. Berry, B. F.  
Str. Earling, E. J.  
Str. Utley, E. H.
- No. 276 Ogdensburg Coal & Towing Co., Ogdensburg, N. Y.  
Str. Avon.  
Str. McVittie, Alex.  
Str. Nicaragua.  
Bge. Carney, Fred.  
Bge. Hoboken.  
Bge. Menominee.



- Bge. Stephenson, Isaac.  
Bge. Twin Sisters.  
Bge. Witbeck, Henry.
- No. 277 Olds, M. D., Cheboygan, Mich.  
Fairport Trans. Co.  
Str. Schoolcraft.
- No. 278 Oliver, James, Kingston, Ont.  
Bge. Andrews, Abbie L.
- No. 279 Omega Transportation Co., 15 Atwater Street, Detroit,  
Mich.  
Str. Omega.
- No. 280 Ontario & Ohio Navigation Co., Cleveland, Ohio.  
Str. Forest City.
- No. 281 Ottawa Transportation Co., Ltd., Ottawa, Canada.  
Str. Glen Allen.  
Str. Hall.  
Str. Scotchman.
- No. 282 Paragon Refining Co., Toledo, O.  
Petrol Traffic Co.  
Str. Viking.  
Bge. Mitchell, F. W.
- No. 283 Patterson, J. T., Kingston, Ont.  
Schr. St. Louis.
- No. 284 Pauly, H. J., Wells & 3rd Streets, Milwaukee, Wis.  
Str. Davidson, Thomas.  
Bge. Baltic.
- No. 285 Peacock, J. H., Port Hope, Ont.  
Bge. Arthur.
- No. 286 Pelee Island Sand & Gravel Co., 1800 Scranton Road,  
Cleveland, Ohio.  
Str. Stafford, W. R.
- No. 287 Peninsular Steamboat Co., Sandusky, Ohio.  
Str. Lakeside.
- No. 288 Peninsula Tug & Towing Co., Ltd., Wiarnton, Ont.  
Str. Warren, Homer.  
Bge. Sands, Isabella.

Bge. Herschel.  
 Bge. White & Friant.  
 Tug Crawford.  
 Tug Ella.

- No. 289 Pennsylvania & Ontario Trans. Co., Rockefeller Bldg.,  
 Cleveland, Ohio.  
 Str. Ashtabula.
- No. 290 Pennsylvania Steamship Co., Caswell Block, Milwaukee,  
 Wis.  
 Str. Wolf, W. H. (old)
- No. 291 Pentland Steamship Co., F. L. Leckie, Mgr., Rockefeller  
 Bldg., Cleveland, Ohio.  
 Str. Pentland.
- No. 292 Peoples Milling Co., Chaumont, N. Y.  
 Bge. Acacia.
- No. 293 Perks Brothers, Meaford, Ont.  
 Str. City of Meaford.
- No. 294 Pere Marquette S. S. Co., W. L. Mercerean, Supt., Luding-  
 ton, Michigan.  
 Str. Pere Marquette.  
 Str. Pere Marquette No. 14.  
 Str. Pere Marquette No. 16.  
 Str. Pere Marquette No. 17.  
 Str. Pere Marquette No. 18.  
 Str. Pere Marquette No. 19.  
 Str. Pere Marquette No. 20.
- No. 295 Peterson, Frank J., 26 W. 4th Street, Oswego, N. Y.  
 Str. Collinge.  
 Str. St. Joseph.
- No. 296 Pickands, Mather & Company, Mgrs., Western Reserve  
 Bldg., Cleveland, Ohio.  
 The Interlake Steamship Co.  
 Str. Adriatic.  
 Str. Ames, Ward.  
 Str. Arcturus.  
 Str. Bope, H. P.  
 Str. Calumet.  
 Str. Canopus.



Str. Cepheus.  
Str. Cetus.  
Str. Corvus.  
Str. Crete.  
Str. Cygnus.  
Str. Elba.  
Str. Hemlock.  
Str. Hoyt, J. H.  
Str. Indus.  
Str. Jupiter.  
Str. Kerr, D. G.  
Str. Lupus.  
Str. Mather, Samuel.  
Str. Mills, D. O.  
Str. Morse, J. C.  
Str. Neptune.  
Str. Odanah.  
Str. Pathfinder.  
Str. Perseus.  
Str. Reed, J. H.  
Str. Sherwin, John.  
Str. Sirius.  
Str. Stone, Amasa.  
Str. Taurus.  
Str. Verona.  
Str. Venus.  
Str. Victory.  
Str. Wallace, J. C.  
Str. Wolvin, A. B.  
Bge. Constitution.  
Bge. Sagamore.

No. 297 Pierce, William E., Bay City, Mich.  
Str. Ogemaw.  
Bge. Filmore, C. J.

No. 298 Pipkorn & McDougall, Alpena, Mich.  
Str. Gogebic.

No. 299 Pittsburgh Steamship Co., Rockefeller Bldg., Cleveland,  
Ohio.  
Str. Baker, Geo. F.  
Str. Bessemer, Sir Henry.

Str. Black, Clarence A.  
Str. Buffington, Eugene J.  
Str. Bunsen, R. W. E.  
Str. Cole, Thomas F.  
Str. Colgate, James B.  
Str. Coralia.  
Str. Corey, William E.  
Str. Cornell.  
Str. Cort, Henry.  
Str. Crawford, George G.  
Str. Crescent City.  
Str. Dickson, William B.  
Str. Dinkey, Alva C.  
Str. Eads, James B.  
Str. Edenborn, William.  
Str. Ellwood, Isaac L.  
Str. Empire City.  
Str. Ericsson, John.  
Str. Fairbairn, Sir William.  
Str. Farrell, James A.  
Str. Filbert, William J.  
Str. Frick, Henry C.  
Str. Fulton, Robert.  
Str. Gary, Elbert H.  
Str. Gates, John W.  
Str. German.  
Str. Harvard.  
Str. Hill, James J.  
Str. Houghton, Douglas.  
Str. House, Francis E.  
Str. Linn, William R.  
Str. Lynch, Thomas.  
Str. McDougall, Alexander.  
Str. Malietoa.  
Str. Manola.  
Str. Maricopa.  
Str. Mariposa.  
Str. Maritana.  
Str. Mataafa.  
Str. Mather, Samuel.  
Str. Maunaloa.  
Str. Morgan, J. Pierpont.



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Str. Morgan, Jr., J. Pierpont.  
Str. Morse, Samuel F. B.  
Str. Murphy, Simon J.  
Str. Neilson, James B.  
Str. Olcott, William J.  
Str. Palmer, William P.  
Str. Perkins, George W.  
Str. Phipps, Henry.  
Str. Poe, General Orlando M.  
Str. Princeton.  
Str. Queen City.  
Str. Ream, Norman B.  
Str. Rensselaer.  
Str. Roberts, Percival, Jr.  
Str. Rockefeller, Frank.  
Str. Rogers, H. H.  
Str. Roman.  
Str. Saxon.  
Str. Schiller, William B.  
Str. Shaw, Howard L.  
Str. Siemens, Sir William.  
Str. Stephenson, George.  
Str. Superior.  
Str. Superior City.  
Str. Trimble, Richard.  
Str. Van Hise, Charles R.  
Str. Watt, James.  
Str. Widner, Peter A. B.  
Str. Zenith City.  
Bge. Bell, Sir Isaac Lothian.  
Bge. Bryn Mawr.  
Bge. Carrington.  
Bge. Corliss, George H.  
Bge. Fritz, John.  
Bge. Holley, Alexander.  
Bge. Jenney, W. LeBaron.  
Bge. Krupp, Alfred.  
Bge. Magna.  
Bge. Maia.  
Bge. Maida.  
Bge. Manda.  
Bge. Manila.

- Bge. Marcia.  
Bge. Marsala.  
Bge. Martha.  
Bge. Nasymith, Jas.  
Bge. Roebling, John A.  
Bge. Smeaton, John.  
Bge. Thomas, Sidney G.  
Bge. No. 137.
- No. 300 **Pittsburgh & Erie Coal Co., Erie, Pa.**  
Str. Armour, P. D.  
Str. Fitzgerald, R. P.
- No. 301 **Playfair, James, Mgr., Midland, Ont.**  
**Great Lakes Transportation Co., Ltd.**  
Str. Glenfinnan.  
Str. Glenshee.  
Str. Glenyon.  
Str. Glenlivet.
- No. 302 **Plunkett, George, Cobourg, Ont.**  
**Rogers Transportation Corp.**  
Str. Packer, H. E.  
Bge. Kitchen, J. B.  
Bge. Marshall, Charlie.
- No. 303 **Point Ann Quarries, Ltd., J. F. M. Stewart, Mgr., McKinnon Bldg., Toronto, Ont.**  
Str. Lake Michigan.  
Str. Rolph, John.  
Bge. Antelope.  
Bge. Dobbins, D. P.  
Bge. Minch, Sophia.  
Bge. Moran, David.  
Bge. Muir, A.  
Bge. Sligo.
- No. 304 **Potter-Teare Transit Co., Carter Rd. S. W., Cleveland, Ohio.**  
Str. McGregor, Mary A.
- No. 305 **Prindiville & Sons, John, Insurance Exchange, Chicago, Ill.**  
Str. Yale.



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- No. 306 Prescott & Odgensburg Ferry Co., Ltd., Prescott, Ont.  
Str. Miss Vandenberg.
- No. 307 Pringle Barge Line Co., Rockefeller Bldg., Cleveland, O.  
Tug Osborne, Chase S.  
Bge. Barlum, J. J.  
Bge. Golden Age.  
Bge. Tokio.  
Bge. Iron Cliff.
- No. 308 Port Colborne & St. Lawrence Nav. Co., Ltd., Toronto,  
Ont.  
Str. Algonquin.
- No. 309 Port Huron & Duluth Steamship Co., Port Huron, Mich.  
Str. Lakeland.  
Str. Lakeport.  
Str. Lakewood.
- No. 310 Post Fish Co., Sandusky, O.  
Str. City of Dresdon.
- No. 311 Quebec Trans. & Forwarding Co., Ltd., Quebec, Que.  
Str. Florence.  
Str. Hackett, J. H.  
Str. Hackett, M. A.  
Bge. A-D.  
Bge. Ewen, F. D.  
Bge. Gladys, H.  
Bge. Katie H.  
Bge. Klondyke.  
Bge. Zapotec.
- No. 312 Quebec & Pt. Levis Ferry Co., Ltd., Quebec, Que.  
Str. Shaw, Chas. H.
- No. 313 Rainey River Navigation Co., Ltd., Kenora, Ont.  
Str. Agwinde.  
Str. Keenora.  
Str. Keewatin.
- No. 314 Rathbun, C. J., Mgr., 617 Cass Ave., Detroit, Mich.  
Str. Wenté, R. C.  
Bge. Exile.
- No. 315 Recor & Smith, St. Clair, Mich.  
Schr. Holmes, J. A.

- No. 316 **Reibolt-Wolter Co.**, Sturgeon Bay, Wis.  
Str. Tempest, No. 1.  
Bge. One.
- No. 317 **Reid Towing & Wrecking Co., Ltd.**, Sarnia, Ont.  
Str. Inland.  
Str. Manistique.  
Str. Matoa.  
Bge. Buffalo.  
Bge. Hanscombe, Belle.  
Bge. Kelderhouse, John.  
Bge. Magnetic.
- Spokane Steamship Co.**  
Str. Ketchum, J. B. 2nd.  
Str. Spokane.
- No. 319 **Rend & Co., W. P.**, 115 Dearborn St., Chicago, Ill.  
Str. Rend, W. P.
- No. 320 **Reynolds, J. E.**, 514 Ontario St., Port Huron, Mich.  
Str. Huron City.
- No. 321 **Richardson & Sons, James, Ltd.**, Kingston, Ont.  
Str. Calgary.  
Str. Glenfoyle.  
Str. Glenmavis.  
Str. Navajo.  
Str. Toiler.  
Bge. Ford River.
- No. 322 **Richardson & Co., W. C.**, 816 Leader-News Bldg., Cleveland, Ohio.  
Str. Wade, J. H.
- Ashtabula Steamship Co.**  
Str. Normania.
- Hanna Transit Co.**  
Str. Hanna, Howard M., Jr.
- Hubbard Steamship Co.**  
Str. Hubbard, C. Russell.
- Jackson Transit Co.**  
Str. Mitchell, Samuel.  
Bge. Chicamauga.



- Miller Transit Co.  
Str. Miller, Leonard B.
- Norton Transit Co.  
Str. Norton, David Z.
- Richardson Transportation Co.  
Str. Roumania.
- No. 323 Rideau Lakes Navigation Co., Ltd., Kingston, Ont.  
Str. Rideau King.  
Str. Rideau Queen.
- No. 324 River Rouge Sand Co., Grummond Bldg., Detroit, Mich.  
Str. Gowan, A. Y.  
Str. Boyce, I. J.
- No. 325 Rixon, Ainslie, Stoddard Co., Ltd., Owen Sound, Ont.  
Bge. Buckhout, B. B.
- No. 326 Roe Brothers, Harbor Springs, Mich.  
Str. Columbia.
- No. 327 Rondeau, Treffe, Lanoraie, Que.  
Schr. Dunn, S. H.
- No. 328 Rondeau, Alexis, Lanoraie, Que.  
Bge. Warmington, G. H.
- No. 329 Roper Lbr. & Cedar Co., Menominee, Mich.  
Schr. Cook, Mary Ellen.
- No. 330 Rutherford, William, Montreal, Que.  
Str. Ida E.
- No. 331 Rutland Transit Co., C. W. Kelly Supt, Ogdensburg, N. Y.  
Str. Averill, W. J.  
Str. Bennington.  
Str. Burlington.  
Str. Haskill, W. H.  
Str. Ogdensburg.  
Str. Rutland.
- No. 332 Saginaw Bay Transportation Co., Cleveland, Ohio.  
Bge. Bottsford R.
- No. 333 Salmon & Co., Hamilton H., F. T. Sullivan, Mgr., 71  
South St., Buffalo, N. Y.  
Str. Kongo.

- No. 334 Sands, Salt & Lumber Co., Louis, Manistee, Mich.  
Str. Marshall, Maggie.  
Str. Wotan.
- No. 335 Sanderson, Charles, J., Milwaukee, Wis.  
Schr. Simpson, Lucia A.
- No. 336 Sanford, James, Sandusky, Ohio.  
Str. Stephenson, S. M.
- No. 337 Sandusky & Islands Steamboat Co., Sandusky, O.  
Str. Arrow.
- No. 338 Schlosser, Win, Milwaukee, Wis.  
Str. Cream City.  
Schr. Boyce, G. J.  
Schr. City of Cheboygan.  
Schr. Hossack, W. D.  
Schr. Stafford.
- No. 339 Schnorbach-Greeling Co., Muskegon, Mich.  
Str. Third Michigan.
- No. 340 Scott, William, Wallaceburg, Ont.  
Str. Brittain, R. C.
- No. 341 Scott, W. G., Port Huron, Mich.  
Bge. Casey, Lyman.
- No. 342 Sellwood, R. M., Sellwood Bldg., Duluth, Minn.  
Masaba Steamship Co.  
Str. Morrow, Joe S.
- No. 343 Sharp, William H., Bay City, Mich.  
Str. Donaldson, J. P.  
Str. King, George.  
Bge. Dayton.  
Bge. Ketchum, J. L.  
Bge. Wright, A. W.
- No. 344 Shaw, Howard L., Mgr., Bay City, Mich.  
Lake Transit Co.  
Str. City of Bangor.  
Str. Penobscot.  
Str. Pope, E. C.  
Milinokett Steamship Co.  
Str. Milinokett.



- No. 345 Sheehan, James, Detroit, Mich.  
Str. Green, C. H.  
Bge. Our Son.
- No. 346 Shenango Steamship Co., Rockefeller Bldg., Cleveland,  
Ohio.  
Shenango Steamship Co.  
Str. Snyder, W. P.  
Str. Wilpen.  
Shenango Steamship & Transportation Co.  
Str. Shenango.  
Str. Schoonmaker, Colonel J. M.  
Str. Snyder, W. P., Jr.
- No. 347 Sincinnes-McNaughton Line, Montreal, Canada.  
Str. Glengarry.  
Str. International.
- No. 348 Skang, A. M., Escanaba, Mich.  
Bge. Kewaunee.
- No. 349 Smith, W., Belleville, Ont.  
Schr. Dundee.
- No. 350 Snook, John R., Mt. Clemens, Mich.  
Str. Atlantis.
- No. 351 Solman, Lawrence, Toronto, Ont.  
Str. Clark Brothers.  
Str. Hanlan, John.  
Str. Mazeppa.
- No. 352 South Side Lumber Co., 22nd St. and Ashland Ave., Chi-  
cago, Ill.  
Str. Sawyer, Philetus.
- No. 353 Sowards, John F., Kingston, Ont.  
Str. Sowards.  
Bge. Maize.
- No. 354 St. Joe Island & Sault Line, Ltd., Sault Ste. Marie, Ont.  
Str. City of Chatham.
- No. 355 Standard Fuel Co., Toronto, Ont.  
Str. Veronica.

- No. 356 St. Joseph & Chicago S. S. Co., St. Joseph, Mich.  
Str. Hart, Eugene C.  
Str. Eastland.
- No. 357 St. Lawrence & Chicago Steam Nav. Co., Ltd., A. A.  
Wright, Managing Director, 600 Board of Trade Bldg.,  
Toronto, Ont.  
Str. Crowe, G. R.  
Str. Iroquois.  
Str. Matthews, W. D.  
Str. Osler, E. B.  
Str. Hagarty, J. H. G.
- No. 358 St. Lawrence River Steamboat Co., Kingston, Ont.  
Str. Bain, Jessie.
- No. 359 Star-Cole Line, John Stevenson, Mgr., Detroit, Mich.  
Str. Huron.  
Str. Idlewild.
- No. 360 Stearns Salt & Lumber Co., Ludington, Mich.  
Str. Butters, M. F.
- No. 361 Steinbrenner, Geo. M., Mgr., Rockefeller Bldg., Cleveland,  
Ohio.  
Nicholas Transit Co.  
Str. Onoko.
- No. 362 Steinbrenner, Henry, Mgr., Rockefeller Bldg., Cleveland,  
Ohio.  
Kinsman Transit Co.  
Str. Andrews, Matthew.  
Str. Minch, Anna C.  
Str. Minch, Phillip.  
Str. Steinbrenner, Henry.
- No. 363 Stephenson Co., Isaac, Wells Delta Co., Mich.  
Str. Stephenson, I. W.  
Schr. Resumption.
- No. 364 Stobo, Wm. Q., Quebec, Que.  
Str. Iowa.
- No. 365 Sturgeon Bay Stone & Trans. Co., Sawyer, Wis.  
Str. Foster, I. N.  
Bge. Corning, Ida.



- Bge. Empire State.  
Bge. Oak Leaf.  
Bge. Mott, Richard.
- No. 366 Sullivan & Co., D., Mgrs., Continental Commercial Bank  
Bldg., Chicago, Ill.  
Edgewater Steamship Co.  
Str. Merida.  
Chicago Navigation Co.  
Str. Dunham, J. S.  
Str. Fitzgerald, W. E.  
Christopher Steamship Co.  
Str. Christopher.  
Detroit Steamship Co.  
Str. Kotcher, C. W.  
Gartland Steamship Co.  
Str. Wolf, William H.  
Great Lakes & St. Lawrence Trans. Co.  
Str. Crerar, John.  
Str. Dalton, H. G.  
Str. Davidson, A. D.  
Str. Howe, Geo. C.  
Str. Keefe, J. S.  
Str. Lambert, John.  
Str. Marshall, A. M.  
Str. Parent, S. N.  
Str. Wallace, Robert.
- No. 367 Superior Sand & Gravel Co., Detroit, Mich.  
Str. Osborn, Frank C.
- No. 368 Taylor & Cousins, Belleville, Ont.  
Schr. Newlands, J. B.
- No. 369 Thompson, I. & A., Port Arthur, Ont.  
Lake Coast Trading Co., Ltd.  
Str. Niagara.  
Str. Van Allen, D. R.
- No. 370 Thompson, R. P., Port Huron, Mich.  
Bge. Atmosphere.
- No. 371 Thompson, W. F., Duluth, Minn.  
Str. Neff, M. C.

No. 372 Trotter, F. J., Amherstburg, Ont.  
Str. Mills, J. E.  
Tug Marion E. Trotter.

No. 373 Tomlinson, G. A., Mgr., Duluth, Minn.

Continental Steamship Co.

Str. Congdon, C. A.

Str. Goulder, H. D.

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.

Str. Davidson, J. E.

Str. Sierra.

Mutual Steamship Co.

Str. Berwind, Harry A.

Str. Hartwell, Fred G.

Str. Livingstone, William

National Steamship Co.

Str. Hart, F. W.

Str. Watson, C. W.

Peavey Steamship Co.

Str. Heffelfinger, Frank T

Str. Peavey, Frank H.

Str. Peavey, Geo. H.

Str. Wells, Frederick B.

Superior Steamship Co.

Str. Barnum, G. G.

Str. Sonora.

Str. Sinaloa.

Triton Steamship Co.

Str. Ranney, R. P.

Zenith Steamship Co.

Str. Hoover & Mason.

Str. Saxona.

Str. Yosemite



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- No. 374 **Tonawanda Iron & Steel Co., N. Tonawanda, N. Y.**  
Str. City of Naples.  
Str. Fleetwood.  
Str. Oceanica.  
Bge. Eddy, John F.
- No. 375 **Toronto Ferry Co., Toronto, Ont.**  
Str. Bluebell.  
Str. Island Queen.  
Str. Luella.  
Str. Mayflower.  
Str. Primrose.  
Str. Trillium.
- No. 376 **Tracey, H. E. N., Marine City, Mich.**  
Bge. Corry, Mike.
- No. 377 **United Fuel & Supply Co., Detroit, Mich.**  
Str. Heiden, Charles.  
Str. Little, C. H.  
Str. Sachem.  
Str. McKerchey, J. M.
- No. 378 **Vance & Joys Co., Mgrs., Mitchell Bldg., Milwaukee, Wis.**  
Dakota Transit Co.  
Str. Maryland.  
Milwaukee-Western Steamship Co.  
Str. Manchester.  
Wisconsin Steamship Co.  
Str. Schlesinger, Ferdinand.
- No. 379 **Van Dusen, T. L., Picton, Ont.**  
Schr. Calkins, Bertie.
- No. 380 **Viau, Antone, Cornwall, Ont.**  
Str. City of Toronto.
- No. 381 **Victoria Navigation Co., Ltd., Ottawa, Que.**  
Str. Victoria.
- No. 382 **Volunteer Transit Co., Archie Thompson, Mgr., 948 Rockefeller Bldg., Cleveland, Ohio.**  
Str. Beatty, Charles.
- No. 383 **Wabash Railroad Co., Detroit, Mich.**  
Str. Detroit.

- Str. Transfer.  
Str. Transport.
- No. 384 Waffle, T. J. & W. J., Kingston, Ont.  
Str. Waffle, T. J.
- No. 385 Waldo, L. C., Mgr., 15 Atwater St., Detroit, Mich.  
N-W Transportation Co.  
Str. Brown, H. H.  
Str. Kirby, S. R.  
Bge. Hartnell, Geo. E.
- No. 386 Walkerville & Detroit Ferry Co., Walkerville, Ont.  
Str. Ariel.  
Str. Essex.
- No. 387 Wallace & Cunningham, Dearborn, Mich.  
Dearborn Transit Co.  
Str. Wallace, E. L.
- No. 388 Wedow, John F., Rockefeller Bldg., Cleveland, Ohio.  
Bge. Troy.
- No. 389 Western Transit Co., E. T. Douglass, Mgr., Buffalo, N. Y.  
Str. Boston.  
Str. Buffalo.  
Str. Chicago.  
Str. Duluth.  
Str. Milwaukee.  
Str. Mohawk.  
Str. Rochester.  
Str. Superior.  
Str. Troy.  
Str. Utica.
- No. 390 Weston & Son, A., North Tonawanda, N. Y.  
Str. Buell, F. R.  
Bge. Stewart, A.
- No. 391 Whalen, James, Mgr., Port Arthur, Ont.  
Str. St. Ignace.  
Str. St. Marie.  
Bge. Thunder Bay.
- No. 392 White-Gratwick & Mitchell Steamship Co., North Tonawanda, N. Y.  
Str. Smith, Edward.



- No. 393 **White Star Line**, Detroit, Mich.  
Str. City of Toledo.  
Str. Greyhound.  
Str. Owana.  
Str. Tashmoo.  
Str. Wauketa.
- No. 394 **White Transportation Co.**, Chicago & Mackinaw Sts.,  
Buffalo, N. Y.  
Str. Arizona.  
Str. Runnells, H. E.  
Bge. Scotia.
- No. 395 **Wickwire Steel Co.**, Buffalo, N. Y.  
Str. Niagara.
- No. 396 **Willoughby, W. J.**, Windsor, Ont.  
Str. Case.
- No. 397 **Wilson Transit Co.**, Archie Thompson, Mgr., Rockefeller  
Bldg., Cleveland, Ohio.  
Str. Garretson, General.  
Str. Hebbard, Charles.  
Str. McIntosh, H. P.  
Str. Osborne, A. W.  
Str. Rees, W. D.  
Str. Robbins, S. H.  
Str. Upson, J. E.  
Str. Wilson, Capt. Thomas.  
Str. Yuma.
- No. 398 **Wilson, Paterson Co.**, Board of Trade Bldg., Montreal,  
Canada.  
Str. Senator Derbyshire.  
**Fairhaven Transportation Co., Ltd.**  
Str. Rock Ferry.  
**Lehigh Coal Co., Ltd.**  
Str. Canobie.
- No. 399 **Wilson, W. H.**, Muskegon, Mich.  
Str. Wilson, Mathew.
- No. 400 **Williams, Roy A.**, Mgr., Rockefeller Bldg., Cleveland, O.  
**North American Steamship Co.**  
Str. America.

Str. Brazil.  
Str. Byers, A. M.  
Str. Reiss, John P.  
Str. Reiss, Peter.

**Alva Steamship Co.**  
Str. Bradley, M. A.

No. 401 **Windsor & Pelee Island S. S. Co., Ltd.,** Pelee Island, Ont.  
Str. Pelee.

No. 402 **Wineman, Henry, Jr., Ford Bldg ,** Detroit, Mich.  
Str. City of Berlin.  
Bge. Aurora.

**Raleigh Steamship Co.**  
Str. Hutchinson, C. L.

No. 403 **Winnipeg Steamship Co.,** Winnipeg, Manitoba.  
Str. Briton.  
Str. Waldo, L. C.

No. 404 **Wisconsin Steel Co.,** Chicago, Ill.  
Str. The Harvester.

No. 405 **Wyandotte Transportation Co.,** Detroit, Mich.  
Str. Alpena.  
Str. Huron.  
Str. Wyandotte.

No. 406 **Wyman, Guy,** Painsville, Ohio.  
Str. Edwards, Wm.

No. 407 **Zengerle, C. M., Mgr.,** 97 Alfred St., Detroit, Mich.  
**Shoal Water Transportation Co.**  
Str. Norwalk.



## Present Names of Boats Whose Names Have Been Changed

From Green's Marine Directory

Str.	Adams, Cuyler	.....	Nee Sahara.
"	Advance	.....	" Sir I. L. Tilley.
"	Agassiz, R. L.	.....	" W. A. Hawgood.
"	Agnes W.	.....	" Roswell P. Flower.
"	Arcturus	.....	" James B. Wood.
"	Arizona	.....	" City of Racine.
Bge.	Arthur	.....	" D. P. Rhodes.
"	Arthur (Can.)	.....	" G. C. Trumpff.
Str.	Atikokan (Can.)	.....	" J. B. Trevor.
"	Auburn	.....	" Buffalo.
Bge.	Badger	.....	" Whaleback 110.
"	Baltic	.....	" Grace Grummond.
"	Batavia	.....	" Whaleback 126.
"	Bath	.....	" Sir Joseph Whitworth (Whaleback).
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.
"	Belleville (Can.)	.....	" Spartan.
Bge.	Berkshire	.....	" John Scott Russell (Whaleback).
"	Berwyn	.....	" Capt. G. W. Naughton.
Str.	Bethlehem	.....	" E. P. Wilbur.
"	Bickerdike (Can.)	.....	" Arabia.
"	Binghamton	.....	" H. J. Jewett.
"	Block, Joseph	.....	" Arthur Hawgood.
Bge.	Bloom, Nelson	.....	" Meteor.
"	Bombay	.....	" Whaleback 107.
Str.	Booth, Edwin L.	.....	" D. M. Whitney.
"	Bothnia (Can.)	.....	" Jack.
"	Boucherville (Can.)	.....	" Hochelago.
Bge.	Boyce, Jessie L.	.....	" Milan.
"	Brake, William	.....	" S. Gardner.
"	Brittania	.....	" Whaleback 116.
"	Briton (Can.)	.....	" S. & J. Collier.
Str.	Brittanic	.....	" Rocket.
"	Brownell, Geo. F.	.....	" Chemung.
"	Buel, F. R.	.....	" St. Louis.
Bge.	Buffalo	.....	" Brunette.
Str.	Burnham, Geo.	.....	" Flora Webster.
"	Business	.....	" Bessemer.
"	Cabotia (Can.)	.....	" Hiawatha.
"	Caledonia	.....	" W. B. Morley.

**CAPTAINS!** when in need of a diver why not have a diver that knows every part of a ship, from stem to stern, with 15 years of experience.

Familiar with  
the use of  
Dynamite,



Wrecking,  
Wheels or  
Rudders  
Shipped,  
Anchors and  
Bodies  
Recovered.

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Lakes with Improved Telephone System

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Always Ready on Short Notice

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Association, Pennant A 100

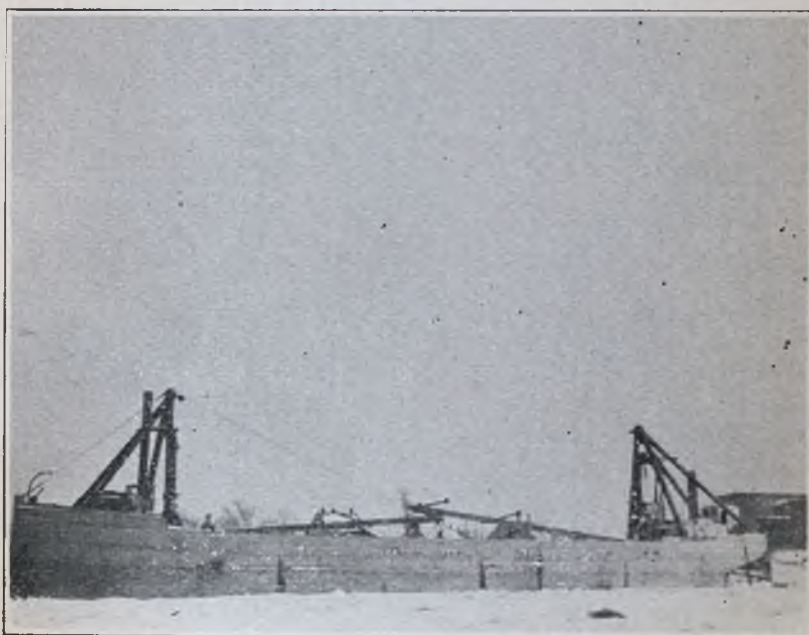


Str.	Canada (Can.)	.....	Nee	Queen City.
"	Canobie (Can.)	.....	"	Iron King.
"	Canopus	.....	"	Geo. H. Russell.
"	Carbray, Felix	.....	"	John C. Gault.
"	Cardinal (Can.)	.....	"	Mayflower.
"	Carolina	.....	"	C. H. Hackley.
"	Case	.....	"	J. C. Lockwood.
"	Caspian (Can.)	.....	"	Passport.
"	Cepheus	.....	"	F. W. Gilchrist.
"	Cetus	.....	"	Henry S. Sill.
Bge.	Cassie	.....	"	Whaleback 201.
Str.	Cataract (Can.)	.....	"	Myles.
"	Chicoutimi (Can.)	.....	"	Sanquenay.
"	Chippewa	.....	"	U. S. R. C. Fessendon.
"	Chamberlin, C. W. (Can.)	.....	"	C. N. Pratt.
"	City of Cheboygan	.....	"	Duluth.
"	City of Green Bay	.....	"	M. C. Hawley.
"	City of Hamilton (Can.)	.....	"	Japan.
"	City of London (Can.)	.....	"	Kathleen.
"	City of Meaford (Can.)	.....	"	Seamon.
"	City of Montreal (Can.)	.....	"	China.
"	City of Ottawa (Can.)	.....	"	India.
"	City of St. Ignace	.....	"	City of Cleveland.
"	City of the Straits	.....	"	City of Detroit.
"	City of Windsor (Can.)	.....	"	E. K. Roberts.
"	Clarke, E. A. S.	.....	"	H. C. Frick.
"	Clark, Alfred	.....	"	Saugatuck.
Bge.	Cobalt (Can.)	.....	"	E. P. Beal's.
Str.	Collinge	.....	"	Cumberland.
"	Compton (Can.)	.....	"	Eastwood & Massachusetts.
"	Congdon, Chester A.	.....	"	Salt Lake City.
"	Conger Coal (Can.)	.....	"	A. Weston.
"	Cornwall (Can.)	.....	"	Algerian.
"	Corona	.....	"	Cibola.
"	Corvus	.....	"	J. L. Weeks.
"	Conestogo	.....	"	Susquehanna.
"	Cooke, Delos W.	.....	"	Starruca.
Bge.	Corry, Mike	.....	"	J. O. Thayer.
Str.	Cort, Henry	.....	"	Pillsbury.
"	Columbia	.....	"	Mascotte.
"	Crawford, Geo. G.	.....	"	LeGrand S. DeGraff.
"	Cream City	.....	"	Rhoda Emily.
"	Crosby, E. G.	.....	"	Naomi.
"	Cygnus	.....	"	J. C. Gilchrist.
Bge.	Cyrenian (Can.)	.....	"	Prussia.
Str.	Doric (Can.)	.....	"	Tadausac.
"	Duchess of York (Can.)	.....	"	Prince of Wales.
"	Dundurn (Can.)	.....	"	Pere Marquette No. 2.
Bge.	Dunn, S. H.	.....	"	W. R. Taylor.
Str.	Eads, James B.	.....	"	Globe.
"	Elva	.....	"	Glad Tidings.
"	Emerald (Can.)	.....	"	Garnet.
"	Emerald	.....	"	D. W. Powers.
"	Empress	.....	"	Peerless.
"	Empress of Ft. William (Can.)	.....	"	Mt. Stephen.
"	Fairfax (Can.)	.....	"	Ionia.

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Fuel Lighters at Buffalo, Ashtabula, Cleveland, and at Detour, Michigan, a fuel dock equipped with chute capacity of 600 tons. Best quality of Pittsburg Coal furnished at any time during day or night.



Bge.	Fannie . . . . .	Nee	Whaleback 202.
Str.	Faustin . . . . .	"	E. H. Jenks.
"	Filbert, Wm. J. . . . .	"	William M. Mills.
"	Fleetwood . . . . .	"	W. H. Gratwick.
"	Flora . . . . .	"	Uranus.
"	Follette, James W. . . . .	"	J. H. Farwell.
"	Forest City (Can.) . . . . .	"	King Edward.
"	Franz, W. C. (Can.) . . . . .	"	Uranus.
"	Fremont . . . . .	"	May Graham.
Bge.	Freeport . . . . .	"	Black Diamond.
Str.	Gargantua (Can.) . . . . .	"	D. C. Whitney.
"	Georgia . . . . .	"	City of Ludington.
"	Glenfinnan (Can.) . . . . .	"	Minnetonka.
"	Glengary (Can.) . . . . .	"	Argyle.
"	Glenlivet (Can.) . . . . .	"	Wawatam.
"	Glenshee (Can.) . . . . .	"	Howard M. Hanna, Jr.
"	Glenyon (Can.) . . . . .	"	Minnekahta.
"	Graham, Geo. A. . . . .	"	Marina.
"	Grimsby (Can.) . . . . .	"	Empress of India and Argyle.
"	Hall, Charles B. . . . .	"	Delaware.
"	Hall, Henry B. . . . .	"	Iron Duke.
"	Hamilton (Can.) . . . . .	"	Magnet.
"	Hand, C. C. . . . .	"	R. E. Schuck.
"	Harlow . . . . .	"	Preston.
Bge.	Harriet D. (Can.) . . . . .	"	Eleanor.
Str.	Hart, Harriet C. . . . .	"	City of Louisville.
"	Harvey, F. E. . . . .	"	John Roberts.
"	Havey, Hugh R. . . . .	"	J. C. Pringle.
"	Hazard, W. A. . . . .	"	John Schroeder.
"	Helen C. . . . .	"	F. E. Spinner, Quebec.
"	Hennepin . . . . .	"	Geo. H. Dyer.
"	Hettler, H. H. . . . .	"	Walter Vail.
"	Hill, Charles B. . . . .	"	Delaware.
"	Hill, Flora M. . . . .	"	U. S. Revenue Cutter Dahlia.
"	Hines, L. Edward . . . . .	"	Santa Maria.
"	Holcomb, Ralph T. (Can.) . . . . .	"	Isaac Lincoln.
"	Holland . . . . .	"	City of Milwaukee.
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.	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.
"	Josephine . . . . .	"	Eva S. Robinson.
"	Kansas . . . . .	"	City of Charlevoix.
"	Kaministiquia (Can.) . . . . .	"	Imperial.
"	Keewatin (Can.) . . . . .	"	Maple Leaf.

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C. J. Meyer, Agent

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W. H. Meyer	Engine 14x22½x36	30 Triple Exp.
Welcome	“ 24x26	Horse Power
J. J. Hagerman	“ 22x22	“ “
Starke	“ 20x26	“ “
W. H. Simpson	“ 20x24	“ “
Carl	“ 16x19	“ “
Conrad Starke	“ 26x30	“ “

One 12-inch Centrifugal Pump  
One 10-inch Centrifugal Pump  
Two Worth Centrifugal Pumps

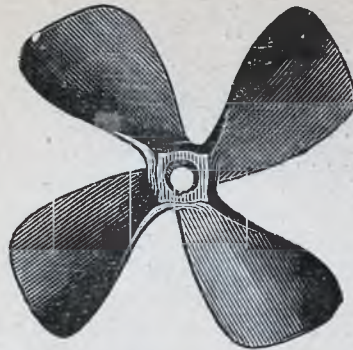
**HAWSERS AND LIGHTERS**



Bge. Keewath (Can.) . . . . .	Nee Paragon.
Str. Kenosha . . . . .	" Madagascar.
" Kentucky . . . . .	" Arundell.
" King Edward (Can.) . . . . .	" Montauk.
" Kongo . . . . .	" Meridan and Saginaw Valley.
" Lakeport . . . . .	" Boston.
" Lakewood . . . . .	" Syracuse.
" Lakeland . . . . .	" Cambria.
" Langham . . . . .	" Tom Adams.
" Laurier, Sir Wilfrid (Can.) . . . . .	" H. M. Hanna, Jr.
" Leopold, N. F. . . . .	" W. R. Woodford.
" Lewisten . . . . .	" S. E. Peck.
Bge. Lily E. . . . .	" Louise McDonald.
Str. Lupus . . . . .	" Gilchrist.
" McCollough, J. G. . . . .	" S. C. Reynolds.
" Major . . . . .	" John Mitchell.
" Malton . . . . .	" E. M. Peck.
" Manistee . . . . .	" Alice Stafford.
" Marshall, Maggie . . . . .	" William Crippen.
" Martian (Can.) . . . . .	" Mars.
" Mataafa . . . . .	" Pennsylvania.
" Meaford (Can.) . . . . .	" Newmount.
" Melbourne . . . . .	" City of Holland.
" Meyer, F. A. . . . .	" J. Emery Owen.
" Michipicoten (Can.) . . . . .	" City of Windsor.
" Mills, David W. . . . .	" Sparta.
" Minnekahta . . . . .	" W. H. Gratwick No. 1.
" Minnesota . . . . .	" Harlem.
" Minnetonka . . . . .	" Alva.
" Morrison, Frank . . . . .	" Lehigh.
" Mueller . . . . .	" E. S. Tice.
" Murray Bay (Can.) . . . . .	" Carolina.
" Muskegon . . . . .	" Peerless.
" Myron . . . . .	" Mark Hopkins.
" Natironco (Can.) . . . . .	" Pioneer.
" Naomi . . . . .	" Wisconsin.
" Navajo (Can.) . . . . .	" King Ben.
" Neff, Lucy . . . . .	" W. P. Ketchum.
" Neilson, J. B. . . . .	" Washburn (Whaleback).
" Nessen, N. J. . . . .	" H. L. Worthington.
" New York . . . . .	" Shrewsbury.
" Niagara (Can.) . . . . .	" Druid.
" North King (Can.) . . . . .	" Norseman.
" Northmount (Can.) . . . . .	" Prince Rupert.
" 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.
" Owana . . . . .	" Pennsylvania.
" Paipoonge (Can.) . . . . .	" Corona.
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" Pere Marquette No. 4 . . . . .	" F. & P. M. No. 4.
" Pere Marquette No. 5 . . . . .	" F. & P. M. No. 5.

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**OWEN SOUND, CANADA**



Str.	Pere Marquette No. 6	Nee	Mark B. Covall.
"	Pere Marquette No. 7	"	Chequamegon.
"	Pere Marquette No. 8	"	Tennessee.
"	Pere Marquette No. 16	"	Muskegon and Shenago No. 2.
"	Peters	"	Jim Sheriffs.
"	Perseus	"	F. J. Hecker.
"	Phelps, Frand D.	"	Cyclone.
"	Phenix	"	W. A. Avery.
"	Philbin, D. M.	"	Sylvania.
"	Pine Lake	"	Ida M. Torrent.
"	Portland	"	A. B. Wolvin.
"	Prescott (Can.)	"	Bohemian.
"	Pringle, John C.	"	W. H. Gratwick.
Bge.	Quickstep	"	S. Anderson.
Str.	Racine	"	Argo.
"	Rapids Queen	"	Brockville.
"	Recor, E. P.	"	F. S. Faxton.
"	Reliance	"	H. C. Sprague.
"	Rend, W. P.	"	G. G. Hadley.
"	Richardson, G. A.	"	Geo. J. Gould.
"	Rock Ferry (Can.)	"	Merrimac.
"	Rome	"	Chicago.
"	Roberts, John	"	City of Rossford.
"	Robbins, S. H.	"	W. W. Oliver.
Bge.	Rickarton (Can.)	"	Chippewa.
"	Romeo	"	Tailor.
"	Sagamore	"	D. Z. Norton.
Str.	Saronic	"	United Empire.
"	Sarnian (Can.)	"	Chili.
"	Sarnor (Can.)	"	Britannic.
"	Saunders, Jr., E. N.	"	Abraham Stearn.
"	Shaw, Charles H. (Can.)	"	John R. Langdon.
Schr.	Skeelee, E. E.	"	John Mee.
Str.	Soo City (Can.)	"	Mabel Bradshaw.
"	Senator Derbyshire	"	Bermuda.
"	Sirius	"	R. L. Ireland.
"	Sowards (Can.)	"	Rand.
Bge.	Stanley, H. M. (Can.)	"	J. H. Breck.
Str.	Stanstead (Can.)	"	Clyde.
"	State of New York	"	City of Mackinac.
"	State of Ohio	"	City of Alpena.
"	Sterling, John R.	"	Vanderbilt.
"	Sturgess, Geo.	"	Higgie.
"	St. Irene (Can.)	"	Canada.
"	Syracuse	"	Geronia.
Bge.	Taber, Horace	"	Amoskeag.
Str.	Tadousac (Can.)	"	Virginia.
"	Taurus	"	Perry G. Walker.
"	Taylor, S. Frater (Can.)	"	Saturn.
"	Tennessee	"	John Spry.
"	Tennessee	"	H. W. Williams.
"	Three Brothers	"	H. W. Williams.
Bge.	Tolmie, John (Can.)	"	Clara.
"	Transfer	"	Wm. McGregor.
"	Transport	"	C. C. Barnes.
"	Underwood, F. D.	"	Ramapo.
Str.	Turner, J. J.	"	J. Q. Riddle.

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## **FIVE HUNDRED ROOMS**

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**Others at \$1.50 and \$2.00**

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 Within walking distance of all Theatres and Shopping  
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 Restaurant in connection

**N. W Corner Rush and E. Grand Ave. CHICAGO**

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 houses, Tunnels, Pneumatic and Submarine  
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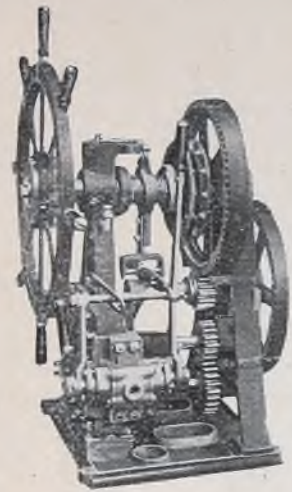


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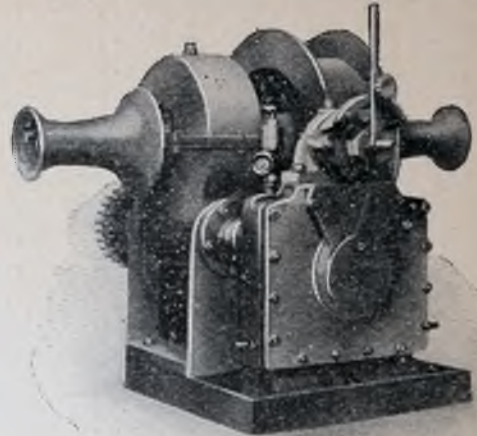
Str.	Uhrig, Edward A. ....	Nee	Sheldon Parks.
"	Valcarter (Can.) .....	"	W. H. Mack.
"	Van Vleck, Geo. H. ....	"	Portage.
"	Vermillion . . . . .	"	J. C. Gilchrist.
"	Warren, Homer . . . . .	"	Atlantic.
"	Wau-Kon . . . . .	"	Charles West.
"	Westerian (Can.) .....	"	City of Montreal.
"	Wiehe, Trude R. ....	"	Alex Folsom.
"	Windsor (Can.) .....	"	Iroquois.
"	Winnipeg . . . . .	"	Juniata.
"	Wisconsin . . . . .	"	F. & P. M. No. 1.
"	Yonkers . . . . .	"	Milwaukee.
"	Zillah . . . . .	"	Edward Smith.

# Dake Engine Co. Grand Haven Mich.

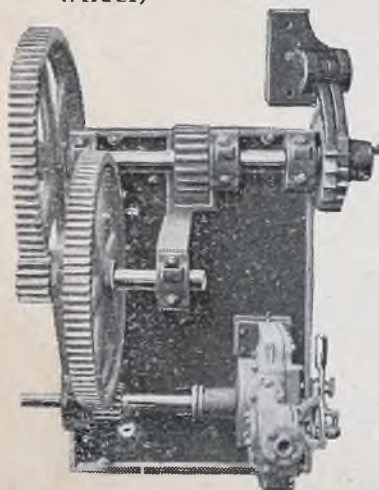
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stans, Anchor Wind-  
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Hoists, Cargo Hoists,  
Drill Hoists, Spud  
Hoists.



Steam Steerer  
(single or double  
wheel)

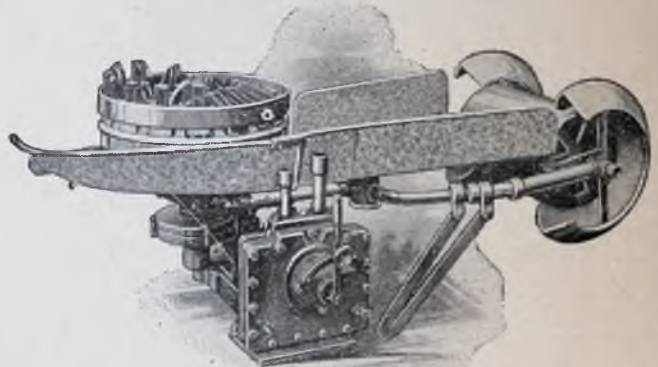


Gang Plank Hoist

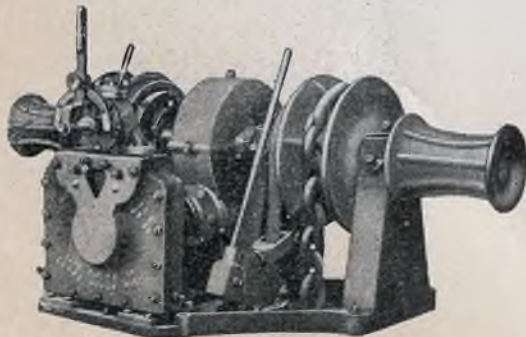


Spud Hoist (for raising and lowering  
spuds on dredges)

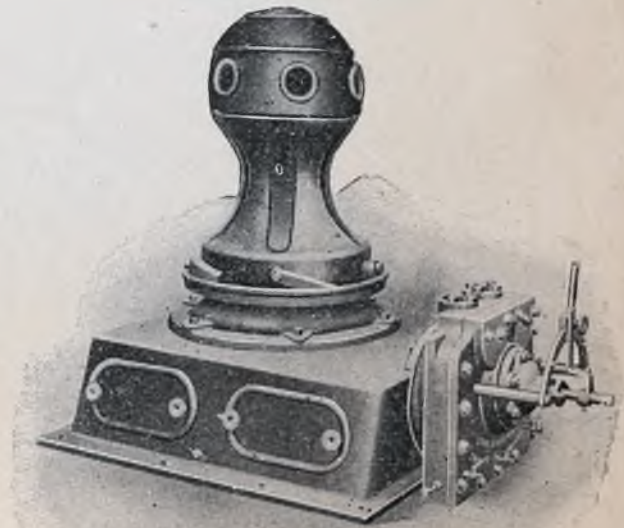
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Steam Net Lifter



Steam Anchor Windlass (with or  
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Steam Deck Capstan



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*The Marine Grocers*

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With Wholesale Prices to All

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**Steamship Tickets to all Parts of the World**

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**SHEEHY & KEHOE**

(Successors to P. Flanagan)

**GROCERIES AND PROVISIONS***Goods Delivered Promptly*Between Bridge and Cayuga St.  
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Dealer in

**Staple and Fancy Groceries, Flour  
Fish, Milk, etc.***BOAT ORDERS CAREFULLY AND PROMPTLY FILLED*

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Phone 154

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TELEPHONE 227

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DEALERS IN

**Fresh, Salted and Smoked Meats, Ice and Milk**

Marine Trade Solicited

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SHEBOYGAN, WIS.



**ARCHER and HOLMES**  
TOBACCONISTS  
**POOL AND BILLIARDS**

The last word in up-to-date Pipes, Smokers' Supplies, Domestic and Imported Cigars and Tobaccos. Being old time Marine Men ourselves we solicit the Marine Men's trade.

TWO STORES

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Telephone 375

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IMPORTERS AND JOBBERS IN

Oils, Packings, Ship Chandlery, Mill Supplies, Railway Supplies. Engineers' Stores.

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Long Distance Telephone 181

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GENERAL HARDWARE

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Tin, Galvanized Iron and Copper Work a Specialty

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**DRUGS AND MEDICINES**

**WILLIAMS DRUG COMPANY**

**QUALITY COUNTS HERE**

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Phone Black 906

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*Marine Trade a Specialty      Prompt Service*  
*Never Missed a Boat*

609 Washington St. MANITOWOC, WIS.

Phone 326

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Solicit your patronage with a full line of

### STAPLE and FANCY GROCERIES

Oswego's Leading Grocers    Marine Delivery    Prompt Service

39 East Bridge St. OSWEGO, N. Y.

## FRED C. MEISER

MARINE MEAT MARKET

Wholesale and Retail Dealer in all kinds of

FRESH, SALT AND SMOKED MEATS

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## COAL DOCKS OF THE GREAT LAKES

Data Furnished by Fred W. Green

## ALGOMA, WIS.

## Algoma Fuel Co.—

Capacity 500 to 600 tons per day.  
 Draft of water 12 to 14 feet.  
 Maximum length boat can handle  
 at dock, 300 foot.  
 Supt. H. Grimm.

## ALGONAC, MICH.

## A. M. Smith—

Capacity per day 250 tons.  
 Draft of water 20 feet.  
 Can handle boats of any length.

## City Dock—

Capacity per day 150 tons.

## ALPENA, MICH.

## Alpena Coal Co.—

Capacity per day 300 tons.  
 Draft of water 15 feet.  
 Can handle 450 foot boats.  
 Supt. Thomas P. Monaghan.

## Alpena Cement Co.—

Capacity per day 250 tons.

## Bedford &amp; Co., M. N.—

Capacity per day 600 tons.  
 Depth of water 15 feet.  
 Can handle boats of any length.  
 Supt. J. L. Reed.

## Fletcher Paper Co.—

Capacity per day 600 tons.  
 Depth of water 15 feet.  
 Maximum length of boat 370 feet.

## AMHERSTBURG, ONT.

## Mullen Coal Co.—

Lower end of Detroit River.  
 Capacity per 10 hours 600 tons.  
 Depth of water at dock 20 feet.  
 Supt. Duerson Gatfield.

## ASHLAND, WIS.

## Clarkson Coal &amp; Dock Co.—

Capacity per 10 hours on large  
 boats 2,000 tons; small boats  
 1,500 tons.  
 Depth of water 20 feet.  
 Maximum length of boat 620 feet.

Pittsburgh & Ashland Coal & Dock  
Co.—

Capacity per 10 hours 1,500 tons.  
 Depth of water 19 feet 6 inches.  
 Maximum length of boat 440 feet.  
 Supt. Fred Erickson.

## Reiss Coal Co., C. (C. N. &amp; W.)—

Capacity per day 3,000 tons.  
 Depth of water 18 feet.  
 Supt. M. Schrank.

## Reiss Coal Co., C. (Soo Dock)—

Capacity per 10 hours 1,500 tons.  
 Depth of water 18 feet.  
 Supt. M. Schrank.

## ASHTABULA HARBOR, OHIO

## Lower Lake Dock Co.—

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

Pittsburgh Coal Co. (Pennsylvania  
No. 11)—

McMyler Car Dump (West Side).  
 Supt. T. F. Falkner.

Pittsburgh Coal Co. (Lake Shore  
No. 9)—

McMyler Car Dump (East Side).  
 Supt. Robt. W. Dingee.

## Pickands-Mather &amp; Co.—

McMyler Car Dump (East Side).  
 Supt. E. O. Whitney.

## BAY CITY, MICH.

## Central Coal Co.—

Capacity per 10 hours 600 tons.  
 Depth of water at dock 12 to 15  
 feet.  
 Supt. F. W. Braman.

## C. M. Clute—

Capacity per 10 hours 300 tons.  
 Depth of water at dock 13 feet.  
 Can handle boats of any size.

## BEAVER ISLAND, MICH.

## James McCann—

Boat to do the hoisting.  
 Capacity about 250 tons.

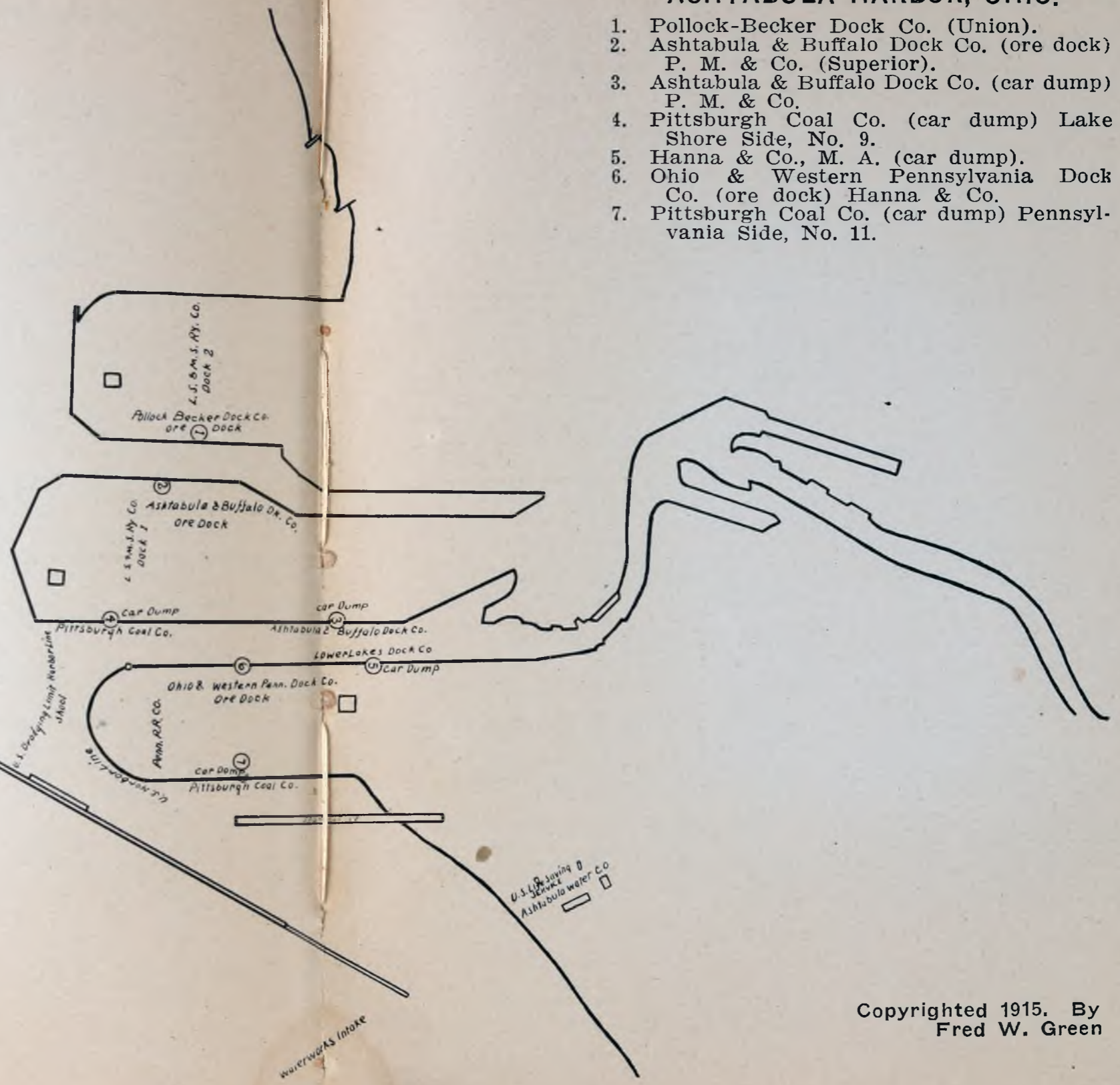


U.S. Breakwater (Under Construction)

Black Can Buoy (Flashing White Light)

Red Can Buoy (Flashing Red Light)

LIGHT HOUSE



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.



**BELLEVILLE, ONT.****N. Allens Dock—**

Capacity per 10 hours 250 tons.  
Depth of water at dock 11 feet.  
Supt. N. Allen.

**F. S. Anderson Co.—**

Capacity per 10 hours 200 tons.  
Depth of water at dock 10 feet.

**Downey Coal Co.—**

Capacity per 10 hours 225 tons.  
Depth of water at dock 10 feet.

**Schuster Co.—**

Capacity per 10 hours 225 tons.  
Depth of water at dock 11 feet.

**BIG TRAVERSE BAY, MICH. (See  
Mohawk, Mich.)****BLIND RIVER, ONT.****Eddy Brothers & Co., Ltd.—**

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.  
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.****Restof 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  
Ohio 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—**

Capacity per 24 hours 1,500 tons.  
Can load any length boat.  
Maximum beam of boat 52 feet.  
Depth of water at dock 19 feet.

**Lackawanna Steel Co.—**

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

**BYNG INLET, ONT.****Canadian Pacific Railway—**

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 dock 21 feet.

**CHARLEVOIX, MICH.****Charlevoix Coal & Wood Co.—**

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.—**

Capacity per 10 hours 1,200 tons.  
Depth of water at dock 12 feet.

**Cheboygan Gas Co.—**

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

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

Capacity per day 500 tons.  
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.  
Capacity per 10 hours 1,500 tons.  
Depth of water at dock 18 feet.  
Can handle 350 foot boat.  
Supt. John Arndt, Jr.

**Dreske & Hinners—**

Elston Ave.  
Capacity per hour 60 tons.  
Maximum length of boat 250 feet.

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

Cortland St. Bridge.  
Capacity 250 tons per hour.  
Depth of water 22 feet.  
Maximum length of boat 300 feet.  
Supt. W. C. Krueger.

**Hedstrom & Co., E. L. (North Ave.)—**

Capacity per day 2,000 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.—**

Capacity per day 2,000 tons.  
Depth of water 20 feet.  
Maximum length of boat 408 feet.  
Supt. A. Wallace.

**Lehigh Valley Coal Sales Co.—**

Chicago Ave. Dock.  
Capacity per day 2,000 tons.  
Depth of water 20 feet.  
Maximum length of boat 400 feet.  
Supt. A. Wallace.

**Lill-Robinson Coal Co.—**

Chester St. Dock.

Capacity per 10 hours soft coal 2,400 tons.

Capacity per 10 hours hard coal 3,000 tons.

Depth of water 20 feet.

Maximum length of boat 325 feet.  
Supt. W. W. Lill.

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

N. Halsted St. Dock.

Capacity per 10 hours 800 tons.

**Pittsburgh Coal Co. (Fuel Dock)—**

North Pier Dock.

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.—**

North Branch, "Elston Avenue Dock."

Capacity per 10 hours 3,500 tons.

Depth of water at dock 22 feet.

Maximum length of boat 580 feet.

**Scheunemann & Co., O. F.—**

Division St.

Capacity per 10 hours 750 tons.

**Schenck Co., S. C. (D. L. & W.)—**

Division St.—Goose Island.

Capacity per ten hours 2,500 tons.

Depth of water 19 feet.

Maximum length of boat 500 feet.

Supt. J. C. Karman.

**SOUTH BRANCH. (Chicago River)****Philadelphia & Reading Coal & Iron Co.—**

Canal and Lumber Sts.

Capacity per 10 hours 750 tons.

**Schenck Co., S. C. (D. L. & W.)—**

35th St. Dock.

Capacity per 10 hours 2,500 tons.

Depth of water 18 feet 6 inches.

Can handle boats of any length.

Maximum beam of boat 52 feet.

Supt. Hugh P. Moran.

**CHICOUTIMI, QUEBEC****Price Brothers & Co., Ltd.—**

Saguenay River.

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.—**

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.  
Capacity per 10 hours 400 tons.  
Depth of water at dock 16 feet.  
Length of boat can reach dock 400  
feet.  
Supt. John Bannan.

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

Capacity per 10 hours 300 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.  
Capacity per 10 hours 450 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.—**

Depth of water 15 feet.  
Maximum length of boat 500 feet.  
Supt. J. S. Gittins.

**De Pere Co-Operative Coal Co.—**

Capacity per day 500 tons.  
Depth of water 15 feet.  
Maximum length of boat 250 feet.  
Supt. H. Barlament.

**Wells Co., A. G.—**

Capacity per day hard coal 900  
tons.  
Capacity per day soft coal 500 tons.  
Depth of water 15 feet.  
Maximum length of boat 300 feet.  
Foreman, W. S. Altmayer.

## DEPOT HARBOR, ONT.

**Grand Trunk Ry. Co.—**

Capacity per 10 hours 1,300 tons.  
Depth of water 21 feet.  
Maximum length of boat 500 feet.  
A. J. Brett, Agent.

## DETOUR, MICH.

**Detour Dock Co.—**

Pickands-Mather & Co., Cleve-  
land, Ohio.  
Capacity per 10 hours 2,500 tons.  
16 pockets, capacity 2,000 tons.  
Depth of water at dock 23 feet.  
Can handle boats of any length.  
Fuel dock exclusively.  
W. H. Lewis, Agent.

**Watson, T. H.—**

Capacity per 10 hours 500 tons.  
Depth of water 21 feet.  
Maximum length of boat 600 feet.  
Fueling dock also.

## DESERONTO, ONT.

**Canada Cement Co., Ltd.—**

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

**Rathbun Co.—**

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.

Capacity per 10 hours 700 tons.

Depth of water at dock 25 feet.

Mgr. J. M. McKerchey.

Fueling station.

**Water Works—**

Depth of water 13 feet.

Capacity per day 350 tons.

**DOLLAR BAY, MICH.****Lake Superior Smelting Co.—**

Capacity per 10 hours 500 tons.

Depth of water 18 feet.

Maximum length of boat 300 feet.

Supt. H. D. Conant.

**Tamarack Mining Co. (Union Dock)—**

Capacity per 10 hours 3,000 tons.

Depth of water 19 feet 6 inches.

Can handle boats of any length.

Supt. Hugh Moore.

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

Capacity per 10 hours 450 tons.

Depth of water 20 feet.

Can handle boats of any length.

Supt. F. W. Foley.

**DULUTH, MINN.****Berwind Fuel Co. (Dock No. 2)—**

West Duluth Dock.

Capacity per 10 hours 10,000 tons.

Depth of water at dock 22 feet.

Can handle boats of any length.

Supt. W. K. Link.

**Boston Coal Dock & Wharf Co.—**

Capacity per 10 hours 3,000 tons.

Depth of water 18 feet 6 inches.

Can handle boats of any length.

Supt. James Patten.

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

Capacity per 10 hours 5,000 tons.

Can handle any size boat.

Depth of water about 20 feet.

Supt. W. W. Spring.

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

Capacity per 10 hours 5,000 tons.

Depth of water about 22 feet.

Supt. W. W. Spring.

**Clarkson Coal & Dock Co.—**

Rices Point, between Capital & Consolidated Elevators.

Capacity per 10 hours 3,000 tons.

Capacity per 10 hours 2,000 tons.

Depth of water at dock 20 feet.

Can handle any size boat.

Supt. George H. Reese.

**Cutler & Co., D. G. (Stone Dock)—**

Located in Slip No. 5.

Capacity per 10 hours 1,400 tons.

Depth of water 17 feet.

Maximum length of boat 300 feet.

Supt. D. Ridgewell.

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

Capacity per 10 hours 12,000 tons.

Depth of water 22 feet.

Can handle boats of any length.

Supt. C. H. Fugle.

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

St. Louis River, West Duluth.

Capacity per 10 hours 6,000 tons.

Depth of water at dock 24 feet.

Supt. A. W. Fluegel.

**North Western Fuel Co.—**

Foot of 5th Ave.

Capacity per 10 hours 2,500 tons.

Depth of water 18 feet.

Can handle boats of any length.

Supt. A. C. Jones.

**North Western Fuel Co., Dock No. 6 (Pgh. No. 1)—**

Capacity per 10 hours 10 rigs 5,000 tons.

Depth of water at dock 19 feet.

Maximum length of boat 600 feet.

Supt. A. C. Jones.

**Pittsburgh Coal Co. (Dock No. 7)—**

Capacity per 10 hours 8,000 tons.

Depth of water at dock 20 feet.

Maximum length of boat 600 feet.

Supt. Chas. Gallagher.

**Zenith Furnace Co.—**

Capacity per 10 hours 5,000 tons.

Depth of water at dock 22 feet.

Can handle boats of any length.

Supt. F. C. Harris.



**EMPIRE, MICH.****J. Wilcox Co. (Empire Lumber Co.)—**

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.—**

Capacity per day 800 cords.  
Depth of water at dock 18 feet.  
Can handle any length boat.  
Supt. E. Held.

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

Capacity per 10 hours 2,000 tons.  
Depth of water at dock 25 feet.  
Can handle boats of any length.  
Supt. J. Earling.

**Reiss Coal Co., C. (C. & N. W.)—**

Capacity per 10 hours 2,500 tons.  
Depth of water at dock 20 feet.  
Can handle boats of any length.  
Supt. Thomas Sherlock.

**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.—**

Capacity per 10 hours 6,500 tons.  
Depth of water at dock 22 feet.  
Can handle boats of any length.  
Supt. O. Peterson.

**Canadian Pacific Ry. Co.—**

Capacity per 10 hours 700 tons.  
Depth of water at dock 22 feet.  
Supt. O. Peterson.

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

Capacity per 10 hours 8,500 tons.

Depth of water at dock 22 feet.  
Can handle boats of any length.  
Supt. O. Peterson.

**Fort William Coal Dock Co.—**

Capacity per 10 hours 5,000 tons.  
Depth of water at dock 20 feet.  
Can handle boats of any length.  
Supt. C. B. Neinaber.

**Murphy, James—**

Kaministiquia River.  
Capacity per 10 hours 1,400 tons.  
Depth of water at dock 20 feet.  
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)—**

Capacity 2,400 tons in 48 hours.  
Depth of water at dock 20 feet.

**GLADSTONE, MICH.****Pittsburgh Coal Co.—**

Capacity per 10 hours 3,000 tons.  
Depth of water at dock 20 feet.  
Can handle boats of any length.  
Supt. Peter Peterson.

**GOAT ISLAND, ONT.****Algoma Eastern Terminals—**

North side of Little Current Channel.

Capacity per 10 hours 2,000 tons.  
Depth of water at dock 22 feet.  
Maximum length of boat 350 feet.  
Supt. G. A. Montgomery, Soo, Ont.

**GODERICH, ONT.****Electric Light Plant—**

Capacity per day 225 tons.

**Goderich Elevator & Transit Co.—**

Capacity per day 300 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 300 feet.  
Supt. G. L. Parsons.

**Holmes, F. Barlowe—**

Capacity per day 250 tons.

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

Capacity per 10 hours 500 tons.  
Capacity 10 hours 300 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—**

**GRAND MARAIS, MICH.**

**Booth Fisheries Co.—**

**GREEN BAY, WIS.**

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

Capacity per 10 hours 2,000 tons.  
Depth of water at dock 18 feet and 6 inches.  
Can handle boats of any length.  
Supt. Henry Stange.

**Flatley Brothers Co.—**

Capacity per 10 hours 700 tons.  
Depth of water at dock 18 feet.

**Barkhausen Coal & Dock Co. (South Dock)—**

Capacity per day 1,500 tons.  
Depth of water at dock 18 feet and 6 inches.  
Maximum length of boat 400 feet.  
Supt. H. L. Fiedler.

**Barkhausen Coal & Dock Co. (North Dock)—**

Capacity per 10 hours 700 tons.  
Depth of water at dock 18 feet and 6 inches.  
Maximum length of boat 300 feet.  
Supt. Joe Ecot.

**Hurlbut Co., F.—**

Capacity per day 1,000 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 650 feet.  
Supt. A. Francis.

**Reiss Coal Co., C.—**

Capacity per 10 hours 4,000 tons.  
Depth of water at dock 18 feet 6 inches.  
Can handle boats of any length.  
Supt. W. B. Gueinzius.

**GROSSE POINT, MICH.**

P. O. Address, Point Mills, Mich.

**Arcadian Mining Co.—**

Capacity per day 300 tons.

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

Loading capacity 3,000 tons per 10 hours.

Depth of water at dock 21 feet.

Supt. Henry F. Key, Hancock, Mich.

**Centennial Mining Co.—**

Capacity per day 600 tons.

**Franklin Mining Co.—**

Capacity per day 700 tons.

Depth of water at dock 20 feet.

Supt. E. S. Warne.

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

Capacity per day 650 tons.

**HANCOCK, MICH.**

**City Dock (Water Works)—**

Capacity per day 500 tons.

Depth of water at dock 18 feet.

Supt. Richard Grangnier.

**Hodge Iron Co.—**

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.—**

Capacity per day 400 tons.

Depth of water at dock 19 feet.

Supt. John Ralph, Jr.

**People's Fuel Co.—**

Capacity per 10 hours hard coal 1,200 tons.

Capacity per 10 hours soft coal 800 tons.

Depth of water at dock 19 feet 6 inches.

Maximum length of boat 310 feet.

Supt. Richard Vincent.

**Portage Coal & Dock Co.—**

Capacity per 10 hours 2,500 tons.

Depth of water at dock 19 to 22 feet.



Can handle boats of any length.  
Supt. Thomas Duffy.

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

Capacity per day 300 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 400 feet.  
Supt. L. M. Cleaves.

**Mineral Range Railroad Co.—**

Capacity per 10 hours 1,000 tons.  
Depth of water at dock 15 feet.  
Maximum length of boat 300 feet.  
Supt. T. W. Smith, Calumet, Mich.

**Quincy Smelting Co.—**

Capacity per day 600 tons.

**HARBOR BEACH, MICH.**

**The Mehlethaler Co., Ltd.—**

Capacity per day 400 tons.  
Depth of water at dock 13 feet.  
Maximum length of boat 300 feet.  
Supt. A. M. Jenks.

**HOUGHTON, MICH.**

**Atlantic Mining Co.—**

Supt. Theo. Dengler.

**Carroll Foundry Co.—**

**Copper Range Railroad Co.—**

Capacity per 10 hours 3,000 tons.  
Depth of water at dock 20 feet.  
Maximum length of boat 700 feet.  
Supt. A. E. Ehlers.

**Croze, Joe—**

Capacity per day 250 tons.  
Depth of water at dock 17 feet.  
Maximum length boat can handle 300 feet.

**Houghton County Electric Light Co.—**

Total capacity per 10 hours 500 tons.  
Depth of water at dock 20 feet.  
Maximum length of boat 300 feet.  
Supt. Otto Snyder.

**Houghton County Traction Co.—**

Capacity per 10 hours 500 tons.  
Depth of water at dock 20 feet.  
Can handle boats of 400 foot length.  
Supt. John Ralph, Jr.

**Isle Royal Copper Co.—**

Capacity per 10 hours 1,000 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat can handle 376 feet.  
Supt. J. G. Glanville.

**Northey Coal Dock—**

Capacity per day 250 tons.

**Van Orden Co., M.—**

Capacity per 10 hours 1,500 tons.  
Depth of water at dock 21 feet.  
Can unload any size boat.  
Supt. Louis Reidy.

**HUBBELL, MICH.**

**Calumet & Hecla Smelting Works—**

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

**Ethier, Joseph—**

Capacity per 10 hours hard coal 600 tons.  
Capacity per 10 hours soft coal 400 tons.  
Depth of water 18 feet.  
Maximum length of boat 275 feet.  
Supt. J. J. Ethier.

**Osceola Mining Co.—**

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

**Quincy Mill—**

Capacity per day 2,500 tons.

**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.—**

Capacity per 10 hours 4,000 tons.  
Depth of water at dock 20 feet.  
Maximum length of boat 600 feet.  
Supt. John W. Lees.

**JACKFISH, ONT.**

**Canadian Pacific Ry. Co.—**

Capacity per 10 hours 2,500 tons.

**KELLEY ISLAND, OHIO**

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

Depth of water inner end 16 feet.  
Depth of water at outer end 21 feet.

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

North Side Dock.  
Can load 1,200 tons per day.  
Depth of water at dock 13 feet 6 inches.

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

South Side Dock.  
Can load 1,200 tons per day.  
Depth of water at dock 12 feet 6 inches.

**KENOSHA, WIS.**

**Allen's Sons Co., N. R.—**  
Storage capacity 7,500 tons.

**Baldwin Coal Co., Geo. S.—**  
Capacity per day hard coal 800 tons.  
Capacity per day soft coal 700 tons.  
Maximum length of boat 300 feet.  
Depth of water 17 feet.

**O'Donnell Coal Co., John—**  
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.

Maximum length of boat 500 feet.  
**North Shore Fuel & Supply Co.—**  
Capacity per day 700 tons.

**KEWAUNEE, WIS.**

**Kewaunee Grain Co.—**  
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.—**  
Capacity per 10 hours 750 tons.

Depth of water at dock 14 feet.  
Supt. E. F. Douglass.

**KEY HARBOUR, ONT.**

**Canadian Northern Ontario Railway Dock—**

Capacity per 10 hours 1,200 tons.  
Depth of water at dock 21 feet.  
Can handle boats of any length.  
D. Crombie, Supt. Trans., Toronto.  
O. Ruby, Lake Forwarding Agent,  
Rockefeller Bldg., Cleveland, O.

**KINGSTON, ONT.**

**James Swift & Co.—**  
Capacity per 10 hours 300 tons.  
Depth of water at dock 12 feet.  
Length of boat can reach dock 400 feet.  
Supt. F. Conway.

**Canadian Locomotive Co., Ltd.—**  
Capacity per 10 hours 500 tons.  
Depth of water at dock 12 feet.  
Maximum length of boat 550 feet.

**Soward's Coal Co. & Crawfords Dock—**  
Capacity per 10 hours 400 tons.  
Depth of water at dock 14 feet.  
Supt. J. F. Soward.

**Water Works Dept.—**  
Depth of water at dock 14 feet.  
Mgr. C. C. Folger.

**KINCARDINE, ONT.**

**Kincardine Electric Light & Gas Dept.—**  
Capacity per day 375 tons.  
Depth of water at dock 15 to 17 feet.  
Supt. J. R. McLinden.

**Ontario People's Salt & Soda Co., Ltd.—**  
Depth of water at dock 14 feet.  
Maximum length boat 200 feet.  
John Talmie, Secy.

**Hunter Dredge & Boiler Works—**  
Unload with horses.

**KNIFE RIVER, MINN.**

**Duluth & Northern Minnesota Ry. Co.—**  
Capacity per 10 hours 500 tons.



Depth of water at dock 15 feet.  
Supt. George Ward.

#### LAKE LINDEN, MICH.

Lake Linden Fuel & Supply Co.—  
Capacity per day 400 tons.

#### LEVIS, QUEBEC

Canadian Import Co. (Foundry  
Wharf)—

Capacity per 10 hours 1,000 tons.  
Depth of water at dock 20 feet.  
Supt. R. J. Harding.

#### LIME ISLAND, MICH.

Pittsburgh Coal Co. (Fueling Sta-  
tion)—

Unloading capacity per 10 hours  
1,800 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.—  
Capacity per day 225 tons.

Sims, T. C.—

Capacity per day 175 tons.  
Depth of water at dock 14 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.

Anchor Salt Co.—

Capacity per day 600 tons.  
Depth of water 17 feet 6 inches.  
Maximum length of boat can han-  
dle 315 feet.  
Supt. E. C. Hardy.

Cartier Sons Co., A. E.—

Depth of water at dock 17 feet.  
Maximum length of boat 350 feet.  
Supt. M. J. McBane.

Stearns Salt & Lumber Co. (Salt  
Dock)—

Loading capacity 1,000 bbls. per  
hours or 75 tons per hour.  
Depth of water at dock 17 feet.

#### MACKINAC ISLAND, MICH.

Arnold, George T.—

Capacity per day 500 tons.  
Depth of water 14 feet.  
Supt. George Lapene.

#### MANISTEE, MICH.

Duncan, J. W.—

Capacity per day 300 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)—

Capacity per 10 hours 800 tons.  
Depth of water 15 to 16 feet.  
Maximum length of boat 350 feet.  
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. Grotomal.

#### MANISTIQUE, MICH.

Chicago Lumbering Co.—

Capacity per day 200 tons.  
Depth of water at dock 16 feet.  
Can handle boats of any length.  
Supt. F. Garrett.

#### MANITOWOC, WIS.

Goodrich Transportation Co.—

Capacity per day 700 tons.

Johnson Co., J. G.—

Capacity per 10 hours 850 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 300 feet.  
Supt. Henry Bently.

Manitowoc Land & Fuel Co.—

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)—

Depth of water at dock 19 feet.

Reiss Coal Co., C. (Soo Dock)—  
Dock being rebuilt.

#### MARINE CITY, MICH.

Blood & Hart—

One Steam Hoist.

Capacity per day 100 tons.

Cottrell, R. A.—

Capacity per day 200 tons.

Depth of water 25 feet.

Maximum length of boat 580 feet.

Fueling dock.

Davidson & Wansey—

Capacity per day 150 tons.

Marine City Water Works—

Capacity per day 100 tons.

Depth of water 11 feet 6 inches.

Michigan Salt Works—

Capacity per day 1,000 tons.

Depth of water at dock 20 feet.

Supt. S. C. McLouth.

#### MARINETTE, WIS.

Norton Coal Co., Ed.—

Capacity per day 300 tons.

Marinette Fuel & Dock Co.—

Capacity per day 500 tons.

Depth of water 15 feet.

Can handle 500 foot boat.

Supt. C. P. Nevins.

#### MARQUETTE, MICH.

Pickands & Co., Ltd., James—

Capacity per day 3,000 tons.

Depth of water at dock 20 feet.

Maximum length of boat 600 feet.

Gen. Mgr. J. H. Hicok.

Spear & Sons, F. B.—

Capacity per day hard coal 1,800 tons.

Capacity per day soft coal 1,500 tons.

Depth of water at dock 17 feet.

Can handle boats of any length.

#### MEAFORD, ONT.

Georgian Bay Milling & Power Co.—

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.—

Capacity per 10 hours 3,000 tons.

Depth of water at dock 18 feet.

Supt. A. C. Stephenson.

Lyon Brothers—

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.—

Capacity per 10 hours 400 tons.

Depth of water at dock 17 feet.

Maximum length of boat 400 feet.

George McCormick, Mgr.

Nowack, T. C.—

Capacity per day 400 tons.

Depth of water at dock 15 feet.

Maximum length of boat 140 feet.

Ramsey & Jones—

Capacity per day 200 tons.

#### MICHIPICOTEN HARBOUR, ONT.

Commercial Dock—

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.—

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)—

Capacity per 22 hours 2,200 tons.

Depth of water at dock 22 feet.

Maximum length of boat 500 feet.

O. Ruby, Lake Forwarding Agent,

Rockefeller Bldg., Cleveland, O.

Supt. D. S. Pratt.



## MILWAUKEE, WIS.

**Callaway Fuel Co.—**

Cherry St. Bridge.  
Capacity per 10 hours 1,200 tons.  
Depth of water at dock 19 feet.  
Supt. Mike Albert.

**Central Coal Co.—**

North Menominee River.  
25th Street Dock.  
Capacity per 10 hours 6,000 tons.  
Depth of water at dock 21 feet.  
Maximum length of boat 650 feet.  
Supt. E. J. Barthel.

**Cleveland-Western Coal Co. (Y. & O.)—**

West Menominee River.  
25th Street Dock.  
Capacity per 10 hours 2,500 tons.  
Depth of water at dock 20 feet.  
Maximum length of boat 600 feet.

**Daisy Mill Co. (Hecker Cereal Co.)—**

Kinnickinnic River.  
Capacity per 10 hours 500 tons.  
Maximum length of boat 300 feet.

**Gallun & Sons, A. F. (Tannery)—**

Milwaukee River.  
Capacity per 10 hours 750 tons.  
Maximum length of boat 300 feet.

**Gross Coal Co.—**

North Menominee River.  
First Avenue Dock.  
Capacity per 10 hours 2,500 tons.  
Depth of water at dock 20 feet.  
Maximum length of boat 470 feet.  
Supt. R. Botsch.

**Kanawha Fuel Co.—**

Pabst Slip.  
Capacity per 10 hours 2,500 tons.  
Depth of water at dock 19 feet.  
Maximum length of boat 380 feet.

**Kanawha Fuel Co.—**

North Menominee River.  
Muskego Avenue.  
Capacity per 10 hours 1,500 tons.  
Depth of water at dock 20 feet.  
Maximum length of boat 650 feet.

**Lehigh Valley Coal Sales Co.—**

South Menominee River.  
Canal Street Dock.  
Capacity per 10 hours 3,000 tons.

Depth of water at dock 19 feet 6 inches.

Maximum length of boat 434 feet.  
Supt. C. O. Hansen.

**Milwaukee Coke & Gas Co.—**

Kinnickinnic River.  
Greenfield Avenue.  
Capacity per 10 hours 6,000 tons.  
Depth of water at dock 20 feet.  
Maximum length of boat 625 feet.  
Supt. J. W. Shaeffer.

**Milwaukee-Western Fuel Co.—**

Milwaukee River.  
Cherry Street Dock.  
Capacity per 10 hours hard coal 4,500 tons.  
Capacity per 10 hours soft coal 2,500 tons.  
Depth of water at dock 19 feet.  
Maximum length of boat 450 feet.  
Supt. W. F. Ardern.

**Milwaukee-Western Fuel Co.—**

Milwaukee River.  
Commerce Street Dock.  
Capacity per 10 hours 2,000 tons.  
Depth of water at dock 19 feet.  
Maximum length of boat 450 feet.  
Supt. W. F. Ardern.

**Milwaukee-Western Fuel Co.—**

Kinnickinnic River.  
Washington Street Dock.  
Capacity per 10 hours 5,000 tons.  
Depth of water at dock 19 feet.  
Maximum length of boat 600 feet.  
Supt. W. F. Ardern.

**Milwaukee-Western Fuel Co.—**

Kinnickinnic River.  
Kinnickinnic Avenue Dock.  
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.  
Supt. W. F. Ardern.

**Milwaukee-Western Fuel Co.—**

Kinnickinnic River.  
Greenfield Avenue Dock.  
Capacity per 10 hours 3,000 tons.  
Depth of water at dock 19 feet.  
Can handle any length boat.  
Supt. W. F. Ardern.

**Milwaukee-Western Fuel Co.—**  
 Anthracite Dock.  
 North Menominee River.  
 Sixteenth Street Dock.  
 Capacity per 10 hours hard coal  
 5,000 tons.  
 Depth of water at dock 19 feet.  
 Can handle any length boat.  
 Supt. W. F. Ardern.

**Milwaukee-Western Fuel Co.—**  
 North Menominee River.  
 Sixteenth Street Dock.  
 Capacity per 10 hours 8,000 tons.  
 Depth of water at dock 19 feet.  
 Can handle any length boat.  
 Supt. W. F. Ardern.

**Milwaukee-Western Fuel Co.—**  
 North Menominee River.  
 Canal Street Dock.  
 Capacity per 10 hours hard coal  
 4,000 tons.  
 Capacity per 10 hours soft coal  
 3,000 tons.  
 Depth of water at dock 19 feet.  
 Can handle any length boat.  
 Supt. W. F. Ardern.

**Milwaukee-Western Fuel Co.—**  
 South Menominee River.  
 Pabst Slip.  
 Capacity per 10 hours soft coal  
 1,500 tons.  
 Depth of water at dock 17 feet.  
 Maximum length of boat 380 feet.  
 Supt. W. F. Ardern.

**National Knitting Co.—**  
 Kinnickinnic River.  
 Capacity per 10 hours 500 tons.  
 Depth of water at dock 14 feet.  
 Maximum length of boat 600 feet.  
 Supt. E. L. Sargent.

**North Side Coal Co.—**  
 Milwaukee River.  
 Commerce Street.  
 Capacity per 10 hours 750 tons.  
 Maximum length of boat 300 feet.

**Philadelphia & Reading Coal & Iron  
 Co.—**  
 North Menominee River.  
 West 16th Street Viaduct.  
 Capacity per 10 hours 1,500 tons.  
 Capacity per 10 hours 700 tons.

Capacity per 10 hours slack coal  
 1,000 tons.  
 Depth of water at dock 18 feet.  
 Maximum length of boat 460 feet.  
 Supt. John T. Berns.

**Pennsylvania Coal & Supply Co.—**  
 Independent Dock.  
 Kinnickinnic River.  
 Capacity per 10 hours 2,500 tons  
 soft coal.  
 Capacity per 10 hours 3,000 tons  
 hard coal.

**Pennsylvania Coal & Supply Co.—**  
 Whitnall Dock.  
 North Menominee River.  
 Capacity per hour 300 tons.

**Pennsylvania Coal & Supply Co.—**  
 North Menominee River.  
 Capacity per 10 hours 2,500 tons  
 hard coal.  
 Capacity per 10 hours 2,000 tons  
 soft coal.  
 Capacity per hour 250 tons.  
 Can handle boats of any length.

**Schlitz Brewing Co., Joseph—**  
 Milwaukee River.  
 Capacity per 10 hours 2,500 tons.  
 Depth of water at dock 20 feet.  
 Maximum length of boat 505 feet.  
 Supt. U. B. Uihlein.

**St. Paul & Western Coal Co.—**  
 North Menominee Canal.  
 Canal Street Dock.  
 Capacity per 10 hours 2,000 tons.  
 Depth of water at dock 18 feet.  
 Can handle any length boat.  
 Supt. H. M. White.

**Wisconsin Coal & Dock Co.—**  
 South Menominee Canal.  
 Capacity per 10 hours 2,000 tons.  
 Depth of water at dock 18 feet.  
 Maximum length of boat 450 feet.  
 Supt. J. C. Booth.

**Youghiogheny & Ohio Coal Co.—**  
 South Menominee River (Wagner  
 Slip).  
 Capacity per 10 hours 4,000 tons.  
 Depth of water at dock 20 feet.  
 Maximum length of boat 430 feet.  
 Supt. B. J. Boyle.



**MOHAWK, MICH.****Mohawk Mining Co.—**

Capacity per 10 hours 800 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.  
Capacity per 10 hours 600 tons.  
Supt. H. L. Breckenridge.

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

Pointe-aux-Trembles.  
Capacity per 10 hours 2,400 tons.  
Depth of water at dock 25 feet.  
Maximum length of boat 600 feet.  
Supt. F. B. Kilbourn.

**Canada Cement Co., Ltd.—**

Montreal Harbor.  
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.—**

Near entrance of Lachine Canal.  
Capacity per 10 hours 2,000 tons.  
Depth of water at dock 25 feet.  
Supt. W. Q. Stobo.

**Canada Sugar Refining Co.—**

Wellington Basin, Lachine Canal.  
Capacity each set, per 10 hours,  
600 tons.  
Depth of water boats can draw  
arriving at dock 14 feet 6 in.  
Maximum length of boat that can  
reach dock 250 feet.  
Supt. Mr. Bowers.

**Canadian Tube & Iron Co.—**

Located in Lachine Canal.  
Capacity per 10 hours 600 tons.  
Depth of water at dock 14 feet.  
Maximum length of boat 256 feet.  
Supt. M. Mosley.

**Dominion Coal Co., Ltd.—**

Hochelago, Windmill Point.  
Capacity each set per hour 1,700  
tons.

Depth of water at dock 26 feet.  
Supt. A. MacKenzie.

**Empire Coal Co., Ltd. (Old Inter-colonial Dock)—**

Windmill Point.  
Capacity per 10 hours 1,500 tons.  
Depth of water at dock 25 feet.  
Maximum length of boat 500 feet.  
Supt. Thomas Martin.

**Hall Coal Co., Ltd., George—**

Lachine Canal.  
Capacity per 10 hours 2,000 tons.  
Depth of water at dock 14 feet.  
Maximum length of boat 275 feet.  
Supt. John Haskins.

**Montreal Light, Heat & Power Co.—**

Lasalle Gas Works (Lachine  
Canal).  
Capacity per 10 hours 2,500 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.  
Capacity per 10 hours 2,500 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.  
Capacity per 10 hours 2,600 tons.  
Capacity per 10 hours 600 tons.  
Depth of water at dock 28 feet.  
Maximum length of boat 650 feet.

**Ogdensburg Coal & Towing Co.—**

No. 1 Basin, Lachine Canal.  
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.  
Capacity per 10 hours 600 tons.  
Depth of water at dock 14 feet.  
Maximum length of boat 260 feet.

**Robertson, Farguhar—**

No. 3 Basin, Lachine Canal.  
Capacity per 10 hours 1,000 tons.  
Depth of water at dock 14 feet.  
Can handle any length boat.  
Supt. Duncan Robertson.



**Routh & Son, F. A.—**

Capacity per 10 hours 500 tons.

**The Steel Company of Canada—**

Located on the Lachine Canal.  
Capacity per 10 hours 600 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—**

Located on the Lachine Canal.  
Capacity per 10 hours 600 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.—**

Steamer to do the hoisting.  
Depth of water at dock 22 feet.  
Can handle any size boat.

**Munising Leather Co.—**

East side of the Bay.  
Depth of water at dock 12 feet.  
Maximum length of boat 110 feet.  
Supt. John Allen.

**MUSKEGON, MICH.****Bauknecht Brothers—**

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.—**

Capacity per 10 hours 250 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 225 feet.  
Supt. George A. McKay.

**OWEN SOUND, ONT.****Electric Light Dock—**

Capacity per 10 hours 300 tons.  
Depth of water at dock 20 feet.  
Can handle any size boat.  
Supt. Joseph McLinden.

**Canada Cement Co.—**

Capacity per 10 hours 600 tons.  
Depth of water 20 feet.  
Can handle boats of any length.  
Supt. D. M. Butchard.

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

Unload with Horses.  
Capacity per 10 hours 300 tons.  
Depth of water 20 feet.  
Maximum length of boat 450 feet.

**Canadian Pacific Railway Co.—**

One McMyler with Clam.  
Capacity per day 400 tons.

**Davis-Smith-Malone Co., Ltd.—**

Capacity per hoist 100 tons per day.  
Depth of water at dock 18 feet.  
Can handle boats of any length.  
J. M. Davis, Pres. & Mgr.

**Imperial Cement Co., Ltd.—**

Capacity per 10 hours 450 tons.  
Maximum length of boat 300 feet.  
Depth of water at dock 17 feet.

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

Capacity per 10 hours 300 tons.  
Depth of water at dock 16 feet.  
Maximum length of boat 400 feet.

**Doric Portland Cement Co., Ltd.—**

Capacity per 10 hours 600 tons.  
Depth of water at dock 20 feet.  
Can handle boats of any length.  
Supt. M. Smith.

**PARRY SOUND, ONT.****Beatty Co., Ltd., William—**

Capacity per 10 hours 225 tons.  
Depth of water at dock 18 feet.

**Galna & Danter—**

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

**PENETANGUISENE, ONT.****Breithaupt Leather Co.—**

Unload with Horses.  
Capacity per day 150 tons.

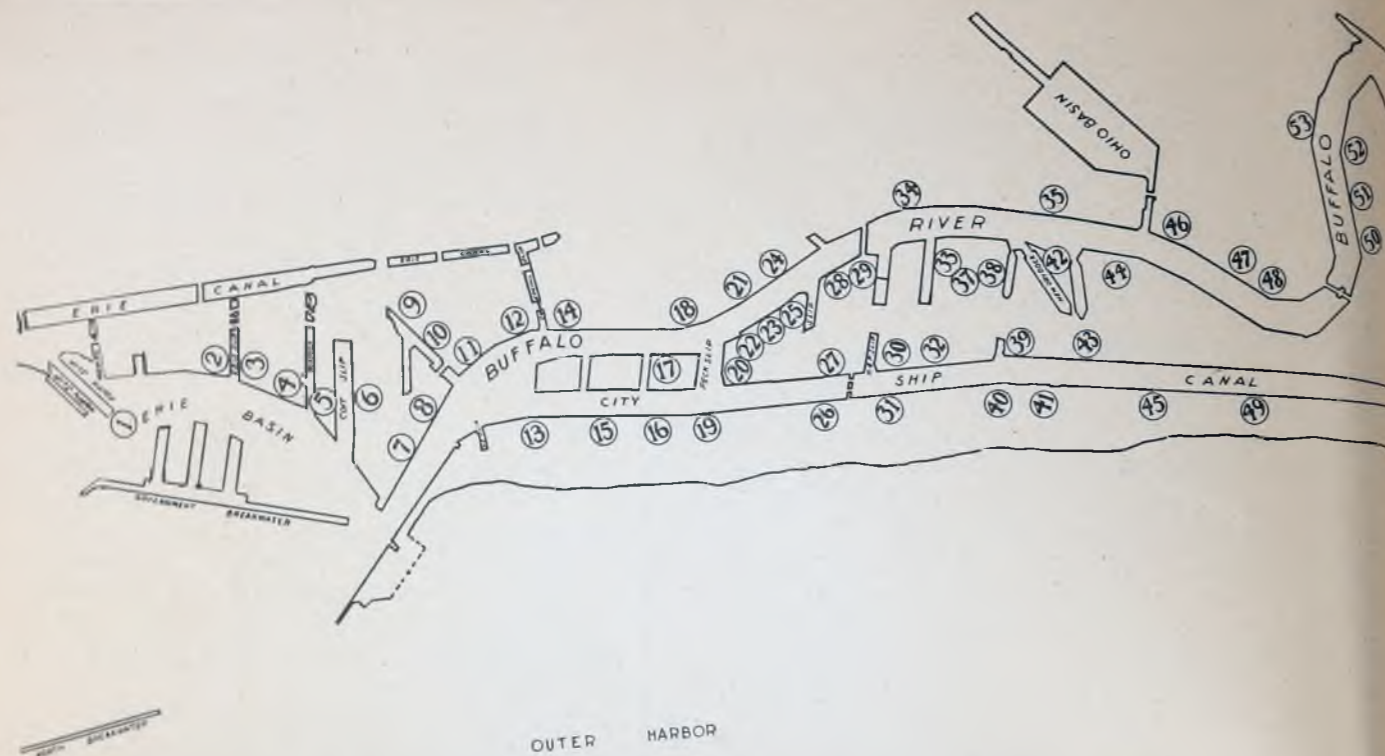
**PICTON, ONT.****Hepburn Brothers—**

Saginaw Steam Winch.

**POINT EDWARD, ONT.****Northern Navigation Co., Ltd.—**

Capacity per 10 hours 500 tons.  
Depth of water at dock 20 feet.  
Supt. W. J. McCormack.

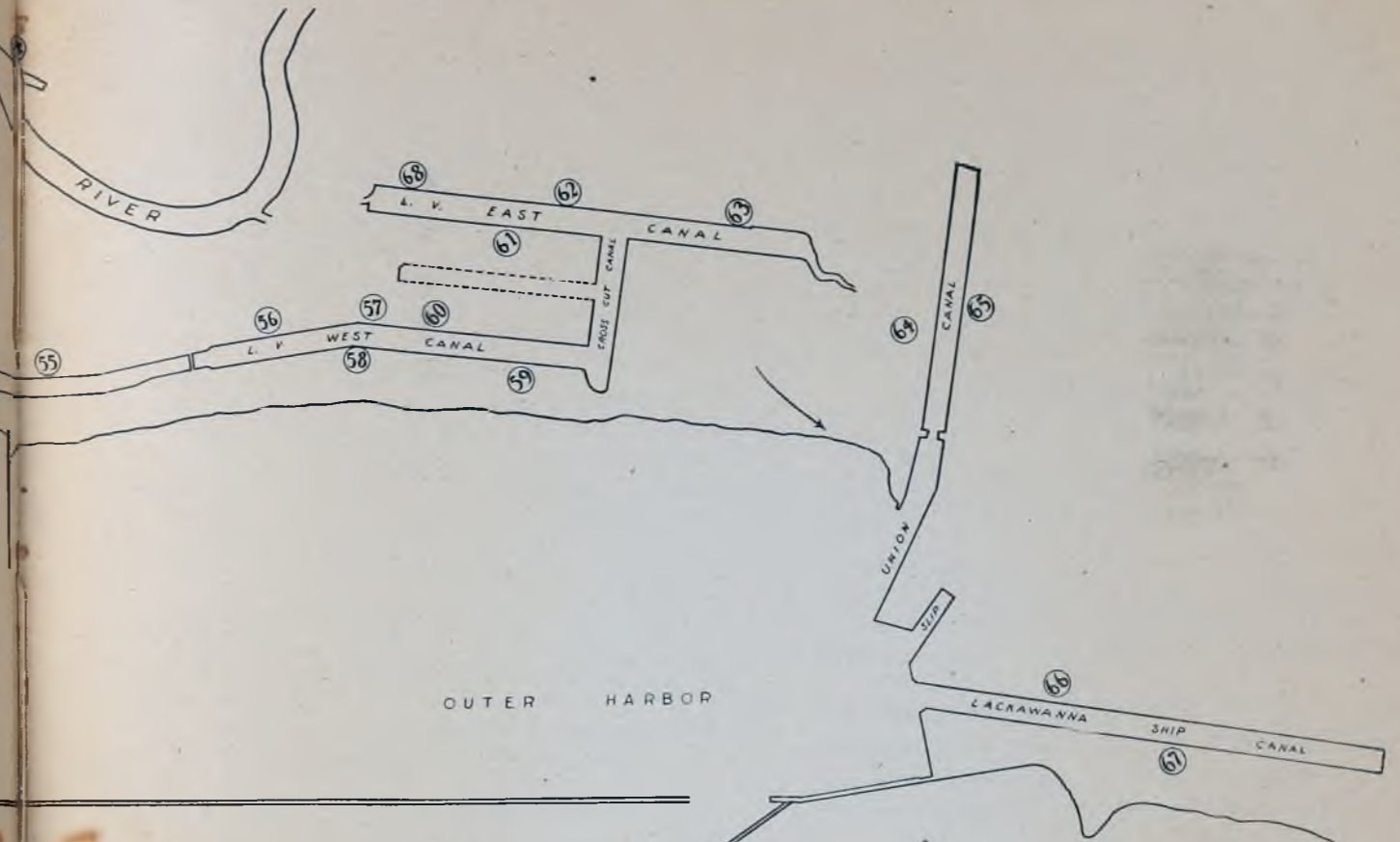




BUFFALO, N. Y.

- 23. American Linseed Co.
- 51. American Malting Co. (Above Ohio St.)
- 45. Ashtabula & Buffalo Dock Co.
- 11. Anchor Line.
- 42. Buffalo Dry Dock Co.
- 30. Buffalo Fuel Co.
- 54. Buffalo Union Furnace Co.
- 6. Buffalo Warehouse & Distributing Co.
- 32. Buffalo, Rochester & Pittsburgh Ore Dock.
- 24. Cleveland & Buffalo Transit Co.
- 28. Cleveland & Buffalo Transit Co.
- 16. Connecting Terminal Elevator (Ship Canal).
- 20. Dakota Elevator (Blackwell Canal).
- 14. Delaware, Lackawanna & Western Ry. Co. (Freight Shed).
- 18. Detroit & Buffalo Transit Co.
- 50. Electric Grain Elevator (Above Ohio St.).
- 49. Erie Coal Dock.
- 48. Erie Elevator (Ohio & Louisiana St.).
- 44. Erie Railroad Co. (Freight Sheds).
- 46. Erie Railroad Co. (Freight Sheds).
- 47. Erie Railroad Co. (Freight Sheds).
- 19. Erie & Western Transit Co. (Freight Sheds).
- 15. Erie & Western Transit Co. (Freight Sheds).
- 10. Evans Elevator (Evans Slip).

- 4. Exchange Elevator (Erie Basin).
- 55. Export Elevator (Ship Canal).
- 22. Great Eastern Elevator.
- 21. Hand & Johnson Tug Line.
- 57. Hauenstein, A. G.
- 26. Hedstrom, F. L.
- 56. Hurd Brothers.
- 60. Hurd Brothers.
- 29. Kellogg Elevator.
- 31. Keystone Warehouse Co.
- 40. Keystone Warehouse Co.
- 38. Knowlton Warehouse Co.
- 7. Lackawanna Coal Trestle.
- 66. Lackawanna Steel Co.
- 67. Lackawanna Rail Dock.
- 68. Lehigh Valley Rail Dock.
- 61. Lehigh Valley Coal Trestle.
- 62. Lehigh Valley Ore Dock.
- 58. Lehigh Valley Freight Sheds.
- 59. Lehigh Valley Freight Sheds.
- 3. Leslie, D. V.
- 25. Marine Elevator (Hatch Slip).
- 2. McNeil Lumber Co.
- 9. Monarch Elevator (Evans Slip).
- 39. Mutual Elevator (Ship Canal).
- 43. Mutual Transit Co. (Freight Sheds).
- 5. New York Central & H. B. Ry. Co. (Freight Sheds).



- 33. New York Central & H. B. Ry. Co. (Freight Sheds).
- 34. New York Central & H. B. Ry. Co. (Freight Sheds).
- 35. New York Central & H. B. Ry. Co. (Freight Sheds).
- 12. Pacific Despatch (Freight Shed).
- 64. Pennsylvania Ore Dock.
- 1. Philadelphia & Reading Coal Dock.
- 41. Pickands-Mather & Co.
- 63. Pillsbury-Washburn Co.
- 52. Perots Sons Malting Co.
- 32. Punxsutawney Iron Co.
- 65. Rogers-Brown Iron Co.
- 52. Salmon & Co., Hamilton H.
- 17. Seaboard Elevator (Opposite Main St.).
- 65. Susquehanna Iron Co.
- 16. Terminal Elevator (Ship Canal).
- 8. Union Elevator.
- 31. Union Dock & Warehouse.
- 40. Union Dock & Warehouse.
- 27. Washburn-Crosby Co. (Ship Canal).
- 45. West Shore Ore Dock.
- 33. Western Transit Co. (Freight Shed).
- 37. Wheeler Elevator.
- 13. Williams & Co., Frank.



**PORT ARTHUR, ONT.****Atikoken Iron Co., Ltd.—**

Capacity per 10 hours 400 tons.

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

Capacity per 10 hours 7,000 tons.

Depth of water at dock 19 feet.

Can unload boats of any size.

Supt. M. O'Leary.

O. Ruby, Lake Forwarding Agent,  
Rockefeller Bldg., Cleveland, O.**Steel Rail Unloading Docks—**

Canadian Northern Railway.

**PORT COLBORNE, ONT.****Port Colborne Dock & Coal Co., Ltd.—**

Capacity per 10 hours 1,500 tons.

Depth of water at dock 17 feet.

Can handle any length boat.

Supt. T. Lewis.

**PORT DALHOUSIE, ONT.****Hutchinson Estate (Fueling Dock)—**

Capacity per 10 hours 300 tons.

Depth of water at dock 17 feet.

Supt. Edw. Quackenbush.

**PORT HURON, MICH.****Kern Brewing Co.—**

Capacity per 10 hours 350 tons.

Depth of water at dock 13 feet 6 inches.

**McCullom & Co., I. E.—**

Capacity per 9 hours 300 tons.

Depth of water at dock 14 to 15 feet.

Maximum length of boat 250 feet.

**Michigan Sulphite Fibre Co.—**

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.—**

Capacity per 10 hours 400 tons.

Depth of water at dock 20 feet.

Can handle any size boats.

Fueling dock

Supt. J. E. Fellows.

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

Capacity per 10 hours 300 tons.

Depth of water at dock 14 feet.

Can handle boats of 300 feet length.

Supt. J. C. Sloan.

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

Capacity per 10 hours 300 tons.

Depth of water at dock 13 feet.

Maximum length of boat 300 feet.

Supt. J. C. Sloan.

**Port Huron Salt Co.—**

Capacity per 10 hours 500 tons.

Depth of water at dock 17 feet.

Can handle boats of any length.

Supt. Otto Huette.

**Port Huron & Duluth Steamship Co.—**

Capacity per 10 hours 400 tons.

Depth of water at dock 20 feet.

**Port Huron & Sarnia Ferry Co.—**

Capacity per 10 hours 150 tons.

Depth of water at dock 14 feet.

Maximum length of boat 300 feet.

**Thompson Coal Co.—**

Capacity per 10 hours 500 tons.

**PORT McNICOLL, ONT.****Canadian Pacific Railway Coal Dock—**

Capacity per 10 hours 1,500 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.—**

Capacity per 10 hours 400 tons.

Depth of water at dock 16 feet.

Maximum length of boat 360 feet.

Supt. F. W. Walker.

**Port Washington Fuel Co.—**

Capacity per 10 hours 400 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.

Capacity per 10 hours 1,200 tons each tower.

Depth of water at dock 25 feet.

Supt. D. Burrige.



**Dominion Coal Co., Ltd.—**

Louise Basin.

Capacity 500 tons per hour.

Depth of water at dock 28 feet.

Maximum length of boat 400 feet.

Supt. William Lambton.

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

Capacity per 10 hours 1,800 tons.

**RACINE, WIS.****Baumann & Murphy—**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.**Carroll Coal Co.—**

Capacity per 10 hours 750 tons.

Depth of water at dock 15 feet 6  
inches.

Maximum length of boat 250 feet.

Supt. Geo. T. Caystill.

**Pugh, W. H., Dock No. 1—**

Capacity per 10 hours 1,000 tons.

Depth of water at dock 18 feet.

Can handle boats of any length.

**Pugh, W. H., Dock No. 2—**

Capacity per 10 hours 900 tons.

Depth of water at dock 16 feet.

**Racine Fuel Co.—**

Capacity per 10 hours 700 tons.

Depth of water at dock 16 feet.

**Racine Gas Light Co.—**

Capacity per 10 hours 800 tons.

Depth of water at dock 18 feet.

Maximum length of boat 350 feet.

D. E. Callender, Mgr.

**SAGINAW, MICH.****Saginaw Coal Co.—**

Consolidated Coal Co., Operators.

Capacity per 10 hours 600 tons.

Depth of water at dock 10 to 12  
feet.

Supt. W. E. Goodman.

**SARNIA, ONT.****Clark Coal Co.—**

Capacity per 10 hours 100 tons.

**Garrock, John—**

Capacity per 10 hours 300 tons.

**Imperial Oil Co., Ltd.—**

Capacity per day 400 tons.

Depth of water at dock 19 feet.

Maximum length of boat 300 feet.

**Northern Navigation Co.—**

Capacity per 10 hours 500 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)—**

2 Car Dumps.

Supt. C. C. Hand.

**Baltimore & Ohio—**

Coal Trestle.

**SAULT STE. MARIE, MICH.****Kemp Coal Co., George (Hard Coal  
Dock)—**

Capacity per 10 hours 1,000 tons.

Depth of water at dock 15 feet.

**Kemp Coal Co., George—**Capacity per 10 hours 500 tons  
each.

Depth of water at dock 22 feet.

Maximum length of boat 400 feet.

Can fuel boats of any length.

**Perry, Frank—**

Capacity per 10 hours 600 tons.

Depth of water at dock 24 feet.

Can handle any size boat.

Supt. Fred Smith.

**Port Royal Dock Co.—**

Capacity per 10 hours 1,200 tons.

Depth of water at dock 21 feet.

Maximum length of boat 600 feet.

Supt. J. C. Barnhisel.

**Port Royal Dock Co. (Algonquin)—**Dock located above the Locks on  
the port side.

Capacity per 10 hours 1,800 tons.

Depth of water at dock 18 feet.

Maximum length of boat 400 feet.

J. C. Barnhisel, Mgr.

**Union Carbide Co.—**

Capacity per 10 hours 1,200 tons.

Depth of water at dock 21 feet.

Maximum length of boat 500 feet.

Supt. Joseph Scales.



**SAULT STE. MARIE, ONT.**

**Algoma Central Railway Dock—**  
Capacity per 10 hours 2,000 tons.  
Depth of water at dock 22 feet.  
Can handle any length boat.  
Supt. G. A. Montgomery.

**Algoma Steel Corporation, Ltd.—**  
Capacity per 10 hours 4,000 tons.  
Depth of water at dock 20 feet.  
Can handle boats of any length.  
Supt. J. A. MacColl.

**New Ontario Dock (C. S. S. Lines)—**  
Capacity per 10 hours 2,000 tons.  
Capacity per 10 hours 1,500 tons.  
Capacity per 10 hours 500 tons.  
Maximum length of boat 400 feet.  
Depth of water at dock 20 feet.  
Supt. W. F. Gilchriese.  
O. Ruby, Lake Forwarding Agent,  
Rockefeller Bldg., Cleveland, O.

**Sault Ste. Marie Coal & Wood Co., Ltd.—**  
Capacity per 10 hours 800 tons.  
Depth of water at dock outer end 17 feet.  
Depth of water at dock inner end 15 feet.  
250 foot boats.  
G. G. Farwell, Pres.

**SAWYER, WIS.**

**Lyon Brothers—**  
Capacity per 10 hours 150 tons.

**SHEBOYGAN, WIS.**

**Sheboygan Coal Co.—**  
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)—**  
Capacity per 10 hours 8,000 tons.  
Depth of water at dock 19 feet.

**Reiss Coal Co., C. (Dock No. 3)—**  
Capacity per 10 hours 2,500 tons.  
Depth of water at dock 19 feet.

**SOREL, QUEBEC**

**Lavelle, Alfred—**  
Capacity per 15 hours 1,500 tons.

**SOUTH CHICAGO, ILL.**

**By-Products Coke Corporation—**  
112th Street.  
Capacity per 10 hours 10,000 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.—**  
Capacity per 10 hours 3,000 tons.  
Depth of water at dock 20 feet.  
Maximum length of boat 525 feet.  
Supt. James Kinney.

**Lehigh Valley Coal Co., 100th St.—**  
Capacity per 10 hours small boats 3,000 tons.  
Capacity per 10 hours large boats 4,000 tons.  
Depth of water at dock 20 feet.  
Maximum length of boat 480 feet.  
Supt. A. Wallace.

**Philadelphia & Reading, 96th St.—**  
Capacity per 10 hours 2,000 tons.

**Illinois Steel Co. (Rail Loading Dock)—**  
North Slip Dock.  
Capacity 2,400 tons in 48 hours.  
Depth of water at dock 20 feet.

**Pittsburgh Coal Co.—**  
South of So. Chicago Elevators.  
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.  
Capacity 2,400 tons in 48 hours.  
Depth of water at dock 20 feet.

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

**James McCann—**  
Capacity per 10 hours 250 tons.

**ST. CLAIR, MICH.**

**Baby & Dale—**  
Depth of water at dock 15 feet.  
Maximum length of boat 200 feet.  
**Diamond Crystal Salt Co.—**  
Capacity per 10 hours 900 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 600 feet.  
Supt. Fred W. Moore.



**Port Huron Salt Co.—**

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—**

Capacity per 10 hours 200 tons.

**City Dock—**

Capacity per 10 hours 250 tons.

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

Capacity per 10 hours 800 tons.  
Depth of water at dock 19 feet.  
Can handle boats of any length.

**STURGEON BAY, WIS.****City Dock—**

Capacity per 10 hours 300 tons.

**Green Stone & Quarrying Co.—**

Capacity per 10 hours 300 tons.  
Depth of water at dock 16 feet.  
Maximum beam of boat 38 feet.  
Supt. A. O. Green.

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

Storage capacity 2,000 tons.  
Depth of water at dock 15 feet.  
Maximum length of boat 250 feet.  
Supt. T. H. Smith.

**Lyon Brothers—**

Capacity per 10 hours 200 tons.

**SUPERIOR, WIS.****Berwind Fuel Co. Dock No. 1—**

Capacity per 10 hours 11,000 tons.  
Depth of water at dock 20 feet.  
Can handle boats of any length.  
Supt. W. K. Link.

**Carnegie Fuel Co. No. 1 (Old G. N.)—**

Capacity per 10 hours 3,000 tons.  
Depth of water at dock 21 feet.  
Maximum length of boat 700 feet.  
Supt. B. McNamara.

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

Capacity per 10 hours soft coal 2,500 tons.

Can handle boats of any length.  
Supt. M. I. Somersfield.

**Hanna Dock Co., The M. A.—**

Capacity per 10 hours 6,000 tons.  
Depth of water at dock 19 feet.  
Can handle boats of any length.  
Supt. A. E. Botsford.

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

Capacity per 10 hours 2,000 tons.  
Depth of water at dock 19 feet.  
Can handle boats of any length.  
Supt. A. W. Fluegel.

**Lehigh Valley Coal Sales Co.—**

Tower Bay Slip.  
Capacity per 10 hours hard coal 5,000 tons.  
Depth of water at dock 21 feet.  
Can handle boats of any length.  
Supt. Emil Emmert.

**Morton Salt Co.—**

Tower Bay Slip.  
Capacity per 10 hours 500 tons.  
Depth of water at dock 14 to 15 feet.

**Northern Coal & Dock Co.—**

Capacity per 10 hours 4,000 tons.  
Depth of water at dock 20 feet.  
Can handle boats of any length.  
Supt. J. M. Selleck.

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

East side of dock.  
Capacity per 10 hours 5,000 tons.  
West side of dock No. 1.  
Capacity per 10 hours 5,000 tons.  
West side of No. 1.  
Capacity per 10 hours 6,000 tons.  
Depth of water at dock 21 feet.  
Supt. B. A. Galleher.

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

Capacity per 10 hours 10,000 tons.  
Depth of water at dock 21 feet.  
Can handle boats of any length.  
Supt. B. A. Galleher.

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

Capacity per 10 hours 3,500 tons.  
Depth of water at dock 21 feet.  
Can handle boats of any length.  
Supt. B. A. Galleher.

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

Capacity per 10 hours 5,000 tons.  
Depth of water at dock 20 feet.  
Can handle boats of any length.  
Supt. Frank McCreary.

**Pittsburgh Coal Co., Dock No. 5—**

Capacity per 10 hours 5,000 tons.  
Depth of water at dock 21 feet.  
Can handle boats of any length.  
Supt. W. B. Elliott.

**Reiss Coal Co., C. No. 3 (Pgh. No. 3)—**

Capacity per 10 hours 4,500 tons.  
Capacity per 10 hours 1,800 tons.  
Depth of water at dock 21 feet.  
Can handle boats of any length.  
Supt. H. Beck.

**Reiss Coal Co., C. No. 4 (Pgh. No. 4)—**

Capacity per 10 hours 1,800 tons.  
Depth of water at dock 19 feet.  
Maximum length of boat 600 feet.  
Supt. H. Beck.

**St. Paul & Western Coal Co.—**

Capacity per 10 hours 3,000 tons.  
Depth of water at dock 18 feet 6 inches.

Can handle any length boat.  
Supt. Thomas O'Neill.

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

Capacity per 10 hours 1,000 tons.  
Depth of water at dock 18 feet.  
Can handle boats of any length.  
Supt. H. E. Speakes.

**THESSALON, ONT.****Algoma Custom Smelting Co.—**

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

**THREE RIVERS, QUE.****Dominion Coal Co., Ltd.—**

Capacity per 10 hours 4,000 tons.  
Depth of water at dock 40 feet.  
Supt. W. C. Haynes.

**TOLEDO, OHIO****Asphalt Block Pavement Co. (Sand Dock)—**

Capacity per 10 hours 800 tons.

Depth of water at dock 25 feet.  
Can handle any size boat.  
Supt. George Hayatt.

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

Capacity per 10 hours 800 tons.  
Depth of water at dock 18 feet.  
Can handle boats of any length.  
Supt. B. F. Beard.

**C. H. & D. Ry. Co.—**

One Car Dump.  
Supt. E. W. Hoffman.

**Hocking Valley—**

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

**Toledo Fuel Co.—**

Magnolia Street Dock.  
Depth of water at dock 19 feet.

**Toledo Fuel Co.—**

Ohio Central Slip.  
Depth of water at dock 18 feet.

**T. & O. C.—**

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

**TORONTO, ONT.****Canada Steamship Lines, Ltd.—**

Capacity per 10 hours 450 tons.  
Depth of water at dock 14 feet.  
Maximum length of boat 250 feet.

**Conger Coal Co., Ltd.—**

Capacity per 10 hours 400 tons.  
Depth of water at dock 14 feet.  
Supt. H. E. Bond.

**Milnes Coal Co., Ltd.—**

Capacity per 10 hours 350 tons.  
Depth of water at dock 20 feet.  
Supt. Arthur Purdue.

**Burnes & Co., P.—**

Capacity per 10 hours 400 tons.

**Toronto Electric Light Co., Ltd.—**

Capacity per 10 hours 400 tons.  
Depth of water at dock 14 feet.  
Supt. Thomas Wright.

**Dickson & Eddy—**

Capacity per 10 hours 700 tons.  
Depth of water at dock 14 feet.  
Supt. E. Lowden.



**Standard Fuel Co., Ltd.—**

Church Street Wharf.

Capacity per 10 hours 1,000 tons.

**Rogers & Co., Elias—**

Capacity per 10 hours 400 tons.

Depth of water at dock 14 feet.

**TRAVERSE CITY, MICH.****Hannah-Lay Co.—**

Capacity per 10 hours 250 tons.

Depth of water at dock 14 feet.

Maximum length of boat 300 feet.

Supt. H. Morrison.

**TWO HARBORS, MINN.****Duluth & Iron Range Ry. Co.—**

Capacity per 10 hours 6,000 tons.

Depth of water at dock 18 feet 6 inches.

Maximum length of boat 460 feet.

Supt. Fred W. Thias.

**Duluth & Iron Range Ry. Co.—**

Can load 250 cords of pulp per day.

Supt. J. H. Spurbeck.

**TWO RIVERS, WIS.****Reiss Coal Co., C.—**

Capacity per 10 hours 1,000 tons.

Depth of water 16½ feet.

Length of boat 400 feet.

Supt. John Schultz.

**John Gesell—**

Capacity per 10 hours 250 tons.

**WASHBURN, WIS.****Northwestern Fuel Co.—**

Capacity per 10 hours 4,000 tons.

Depth of water at dock 21 feet.

Maximum length of boat 525 feet.

Supt. J. W. Gibson.

**WAUKEGAN, ILL.****Waukegan Fuel Co.—**

Capacity per 10 hours 900 tons.

Depth of water at dock 18 feet.

Maximum length of boat 380 feet.

**Reiss Coal Co., C.—**

Capacity per 10 hours 1,250 tons.

Depth of water at dock 18 feet 6 inches.

Maximum length of boat 500 feet.

Supt. Thomas Farmer.

**Reiss Coal Co., C.—**

Capacity per 10 hours 1,800 tons.

Depth of water at dock 18 feet 6 inches.

Maximum length of boat 500 feet.

Supt. Thomas Farmer.

**WEST FORT WILLIAM, ONT.****Canadian Northern Railway Co.—**

Capacity per 10 hours 1,000 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.—**

Capacity per 10 hours 400 tons.

Depth of water at dock 14 feet.

**Peninsular Tug & Towing Co.—**

Capacity per 10 hours 200 tons.

Depth of water at dock 14 feet.

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**VESSEL AGENT**

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Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel L'gth	Beam	Depth			
<b>Steamers</b>											
56	Aberdeen (Can.) ...	142	87	Wood.		99' 6"	22'	8' 7"			1894
56	Acadian (Can.) ....	2305	1457	Steel.	3000	246' 6"	43'	26' 6"	6	3	1908
373	Adams, Cuyler .....	5785	4497	Steel.	8300	474'	52'	29'	28	3	1904
87	Adams, Thomas .....	3784	3187	Steel.	5800	360'	50'	28'	10	4	1892
296	Adriatic .....	4945	3605	Steel.	7300	420'	52'	28'	23	4	1907
255	Advance (Can.) ....	1031	769	Wood.	1200	175'	35' 3"	15'	4	1	1884
159	Agassiz, R. L. ....	6530	4910	Steel.	10200	532'	56'	31'	32	3	1907
2	Agawa (Can.) .....	3759	2468	Steel.	5400	376'	46'	26'	10	3	1902
254	Agnew, William C. .	6533	4985	Steel.	10300	532'	58'	31'	30	3	1911
261	Alaska (Can.) .....	986	592	Iron..	1500	212'	32'	13' 5"	5		1871
254	Albright, John J. ...	4805	3298	Steel.	6800	416'	50'	28'	12	4	1900
308	Algonquin (Can.) ..	1806	1172	Steel.	2500	245'	40'	20' 6"	5	2	1888
8	Allegheny .....	3898	2967	Steel.	5000	350'	46'	30'			1910
405	Alpena .....	2886	1787	Steel.	3400	356'	47'	26'	18	3	1909
180	Amazon .....	3702	2680	Steel.	5700	376'	46'	26'	11	3	1897
92	Amazonas .....	2228	1930	Wood.	3300	295'	44'	21'	8	1	1898
400	America .....	2171	1748	Steel.	3200	274'	41' 6"	24' 4"	7	3	1889
56	Ames, A. E. (Can.).	1637	1020	Steel.	1800	246'	37'	24'	5	2	1903
296	Ames, Ward .....	5750	4422	Steel.	10200	532'	56'	31'	32	3	1907
79	Andaste .....	1573	1256	Steel.	3000	266'	38'	22'	7	1	1892
362	Andrews, Matthew .	7014	5497	Steel.	10200	532'	56'	31'	33	3	1907
79	Angeline .....	4644	3538	Steel.	6800	414'	50'	28'	13	4	1899
67	Annie Laura .....	244	189	Wood	425	133'	24' 6"	10' 7"	3	1	1871
53	Arabian (Can.) ....	1073	770	W.&S.	1200	178' 6"	31'	13' 6"		1	1892
296	Arcturus .....	7159	5744	Steel.	9600	514'	54'	31'	16	4	1906

14	Argo .....	721	490	Wood	1200	192'	35'	12' 8"	5	1	1895
394	Arizona .....	765	601	Wood	1100	189' 4"	32' 6"	13' 4"	5	1	1868
300	Armour, P. D. ....	1990	1452	Wood.	2700	264'	40' 6"	21'	7	1	1889
198	Ashley, J. S. ....	6361	4789	Steel.	9500	504'	54'	30'	30	4	1909
229	Atikoken (Can.) ...	2004		Steel.	3100	308'	38'	24'	8	2	1895
350	Atlantis .....	197	106	Wood.	300	109' 2"	23' 2"	8'			1887
180	Augustus, A. A. ....	6390	4869	Steel.	9500	504'	54'	30'	30	4	1910
180	Australia .....	3845	2877	Steel.	5700	376'	48'	26'	11	3	1897
331	Averill, W. J. ....	1603	1425	Wood.		241' 7"	36' 7"	24'			1884
276	Avon .....	1417	1147	Wood.	2000	251' 1"	35' 4"	15' 1"	6		1877
40	Aztec .....	834	653	Wood.	1100	180'	33' 3"	13' 10"			1889
<b>Barges</b>											
292	Acacia (Can.) .....	188	153	Wood.	300	102'	20'	9'			1873
311	A—D (Can.) .....	462		Wood.	700	147'	30' 1"	13' 4"			1899
180	Abyssinia .....	2037	1916	Wood.	3700	288' 6"	44' 6"	19'	9	1	1896
148	Adriatic .....	915	869	Wood.	1700	202'	34' 8"	16' 6"			1889
86	Aldrich, Wm. ....	177	167	Wood.	350	123' 8"	25' 2"	7' 10"			1856
3	Alice .....	307	291	Wood.	500	137' 3"	30' 3"	10'			1881
247	Aloha .....	521	516	Wood.	1000	173'	32' 4"	12'	5	1	1888
46	Anderson, Alex. ....	738	728	Wood.	1500	193'	37' 2"	13' 7"	6	1	1892
278	Anderson, Abbie L. (Can.) .....	278	264	Wood	500	136'	26'	12'			1873
303	Antelope (Can.) ....	334		Wood	500	138' 6"	26' 3"	11' 4"			1873
31	Arenac .....	521	496	Wood.	1000	178' 6"	34' 6"	12' 7"		1	1888
74	Arendal .....	207	198	Wood.	400	123' 4"	26'	9' 3"			1873
159	Argosy .....	168	160	Wood.	300	107'	24'	9'			1868
85	Arthur .....	937	891	Wood.	1800	217'	35' 3"	14' 8"	8	1	1871
285	Arthur (Can.) .....	350	326	Wood.	600	148'	26'	11' 3"			1893
170	Ashland .....	991	956	Wood.	1800	218' 4"	37' 8"	15'			1886
33	Athens .....	2073	1953	Wood.	3800	293' 6"	44' 6"	19' 1"	9	1	1897
370	Atmosphere .....	275	261	Wood.	550	135'	25'	11'			1863

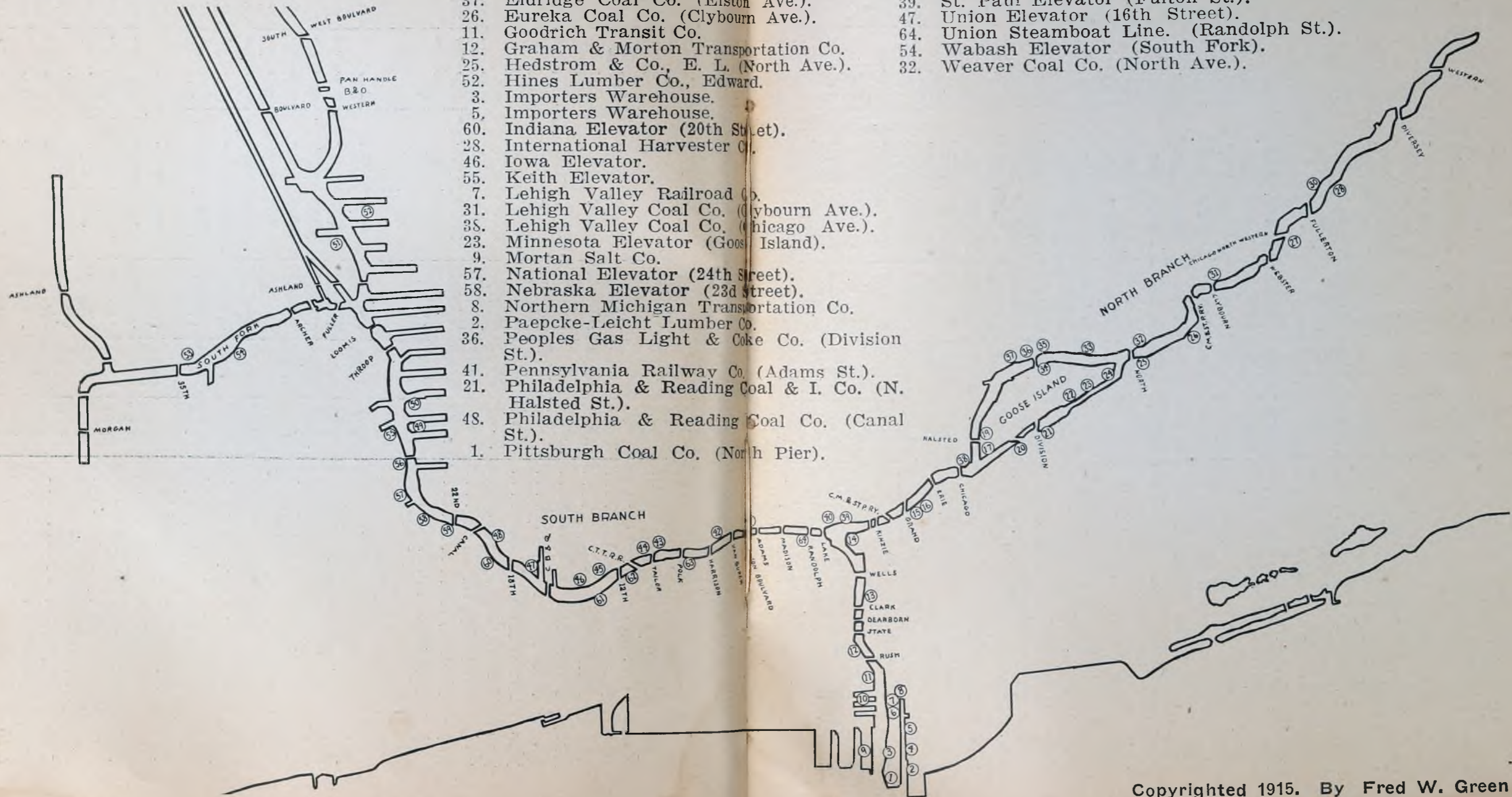


- 59. Alton Elevator (22d Street).
- 13. Anchor Line (La Salle Street).
- 22. Armour Elevators "A" & "B" (Goose Isl.).
- 49. Armour Elevator "C."
- 50. Armour Elevator "D."
- 24. Atlantic Elevator (Goose Island).
- 62. Baltimore & Ohio Ry. Co.
- 6. Canada Atlantic Transit Co.
- 10. Central Elevators "A" & "B."
- 17. Chicago Ship Building Co.
- 40. Chicago, Minneapolis & St. Paul Ry.

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- 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.).
- 38. 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.).





GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel Length	Beam	Depth			
<b>Barges</b>											
255	Augustus (Can.) ...	802		Wood.	1500	177' 5"	39' 6"	15'			1893
402	Aurora . . . . .	2236	2181	Wood.	3200	290'	41'	21' 6"	1		1887
<b>Steamers</b>											
299	Baker, Geo. F. ....	7210	5459	Steel.	11500	580'	58'	32'	36	3	1907
373	Ball Brothers . . . . .	5733	4438	Steel.	8700	480'	52'	30'	28	3	1905
373	Ball, Frank C. ....	6909	5459	Steel.	10000	530'	56'	31'	31	3	1906
21	Barlum, John J. ....	6419	4924	Steel.	9500	504'	54'	30'	30	4	1909
21	Barlum, Thomas ...	5752	4485	Steel.	8500	480'	52'	30'	28	3	1908
373	Barnum, G. G. ....	6272	4826	Steel.	9500	504'	54'	30'	30	3	1905
170	Barth, L. L. ....	683	491	Wood.	900	185'	35'	13' 8"			1889
21	Bartow, J. H. ....	6316	5021	Steel.	9500	504'	54'	30'	30	3	1906
	Battle, Mary (Can.)	275	187	Wood.		130'	26'	9' 4"			1888
382	Beatty, Charles ....	986	814	Steel.	1800	204'	40'	16'	5	1	1902
56	Beaverton (Can.) ..	2011	1357	Steel.	3000	249'	42'	24'		3	1908
331	Bennington . . . . .	2285	1393	Steel.	3000	244'	43'	26' 6"			1908
275	Berry, B. F. ....	6188	6188	Steel.	8500	480'	52'	30'	28	4	1908
373	Berwind, Harry A. .	6634	4927	Steel.	10500	532'	58'	31'	31	3	1908
299	Bessemer, Sir Henry	4321	3293	Steel.	6700	412'	48'	28'	12	4	1896
216	Bethlehem . . . . .	2633	1902	Steel.		298'	40'	26' 4"			1888
56	Bickerdike (Can.) ..	515	864	Comp.	1250	222'	34'	25' 6"	6	3	1873
237	Bielman, C. F. ....	2056	1709	Wood.	3000	291'	41'	19' 8"	8	1	1892
30	Bielman, C. F., Jr...	33	23	Steel.		67' 6"	14'	7' 3"			1907
114	Binghamton . . . . .	1954	1549	Iron..		265'	40'	26'			1897
240	Bixby, W. K. ....	5712	4407	Steel.	8500	480'	52'	30'	14	3	1906

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<b>Steamers</b>											
299	Black, Clarence A. .	4521	3474	Steel.	6900	414'	50'	28'	13	4	1898
180	Block, Joseph . . . . .	6486	4939	Steel.	10800	549'	56'	31'	34	4	1907
34	Boland, John J. ....	4924	4530	Steel.	8700	480'	54'	30'	14	3	1907
275	Booth, Edwin L. ....	4626	3584	Steel.	7000	412' 9"	51' 6"	28'	11	4	1901
296	Bope, H. P. ....	5750	4422	Steel.	10200	532'	56'	30'	32	3	1907
389	Boston . . . . .	4184	3283	Steel.	5000	350'	48'	30'		5	1913
324	Boyce, I. J. ....	368	316	Wood.	550	138'	29' 6"	11'	3	1	1889
5	Boyce, Mary H. ....	700	476	Wood.	1200	181' 4"	34' 2"	14'	4	1	1888
31	Bradley, Charles H.	804	624	Wood.	1200	201'	37'	13' 6"	4	1	1890
40	Bradley, M. A. ....	5539	4127	Steel.	8200	460'	52'	30'	13	4	1908
165	Bransford . . . . .	4657	3386	Steel.	6800	414'	50'	28'	12	4	1902
400	Brazil . . . . .	2186	1655	Steel.	3200	274'	40'	24' 4"	8	3	1890
403	Briton . . . . .	2348	1875	Steel.	3300	296'	40'	24' 6"	8	3	1891
256	Britannic (Can.) ..	428	228	W.& I.		150' 8"	25' 6"	9' 2"			1866
340	Brittain, R. C.(Can.)	213	149	Wood.	300	142'	24'	8'			1877
146	Brower, A. G. ....	3582	2778	Steel.	5400	346'	48'	28'	10	4	1902
385	Brown, Harvey H. ..	2673	1874	Steel.	4400	352'	41' 6"	25'	10	3	1894
39	Brown, J. J. H. ....	5069	3787	Steel.	7400	432'	52'	28'	24	4	1908
159	Brown, Wm. L. ....	4904	3879	Steel.	7300	430'	50'	28' 6"	24	3	1901
146	Brown, W. W. ....	3582	2778	Steel.	5400	346'	48'	28'	10	4	1902
114	Brownell, Geo. F. ..	2615	1778	Steel.		326'	41'	25' 6"			1888
200	Buckley, Edward ..	414	313	Wood.	450	154' 3"	31' 7"	10' 6"			1891
390	Buel, F. R. ....	951	743	Wood.	1500	194'	35' 6"	13' 9"	5		1888
389	Buffalo . . . . .	3951	3272	Steel.		381'	50'	29'			1899
299	Buffington, Eugene J.	7528	5839	Steel.	11500	580'	58'	32'	36	3	1909
111	Bulgaria . . . . .	1888	1486	Wood.	2800	280' 3"	39'	21'	7	1	1887
299	Bunsen, R. W. E. ..	5181	4012	Steel.	7400	446'	50'	29' 6"	14	4	1900
331	Burlington . . . . .	2285	1393	Steel.	3000	244'	43'	26' 6"			1908
1	Burnham, Geo. ....	332	219	Wood.	600	149'	29'	10' 1"	3		1872
180	Butler, Joseph G., Jr.	6588	5174	Steel.	10000	525'	55'	31'	32	3	1905

DIMENSIONS OF LAKE VESSELS



GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel L'gth	Beam	Depth			
<b>Steamers</b>											
360	Butters, Marshall F.	376	229	Wood.	500	164'	30' 4"	10' 6"			1882
400	Byers, A. M. ....	6364	4841	Steel.	9500	504'	54'	30'	30	4	1910
<b>Barges</b>											
68	Bacon, Melvin S. ..	614	584	Wood.	1200	182'	33' 6"	13' 6"	7	1	1874
284	Baltic . . . . .	915	869	Wood.	1700	202'	34' 7"	16' 6"	6		1890
307	Barlum, J. J. ....	1184	1125	Wood.	2100	234'	40' 8"	16'	13		1890
299	Bell, Sir Isaac L. ..	3418	3158	Steel.	5700	366'	44'	26'	11	3	1896
190	Bloom, Nelson .....	549	521	Wood.	950	197' 7"	31' 2"	11' 3"	6	1	1863
332	Bottsford, Rhoda ...	499	474	Wood.	850	167' 1"	32' 9"	10' 3"	5	1	1881
338	Boyce, G. J. ....	319	303	Wood.	500	137'	30'	10' 3"			1884
204	Brake, Wm. ....	318	302	Wood.	550	143' 2"	26' 9"	11'	4	1	1867
178	Brainard, K. (Can.)	398		Wood.	800	169' 8"	30'	10'			1871
255	Brighton (Can.) ....	634	607	Wood.	1000	179' 6"	34' 7"	11' 4"			1897
31	Brightie . . . . .	600	570	Wood.	1000	182'	33' 2"	13'	5	1	1868
74	Brown, Belle .....	217	207	Wood.	375	124' 6"	27' 4"	9' 3"			1873
299	Bryn Mawr .....	4294	3853	Steel.	7500	400'	50'	27'	13	3	1900
90	Buckeye State .....	518	492	Wood.	900	171'	32' 7"	11' 5"			1873
325	Buckhout, B. B. (Can.) . . . . .	341		Wood.	600	158' 2"	28' 8"	10'	4	1	1873
317	Buffalo . . . . .	738	711	Wood.	1300	215' 8"	35' 6"	13' 1"	7	1	1871
74	Butcher Boy .....	348	308	Wood.	500	147'	29'	11' 4"			1868
148	Butman, Myron ....	424	403	Wood.	800	164' 3"	31' 2"	10' 2"			1885
255	Burma (Can.) .....	884	885	Wood.	1200	183' 6"	39' 5"	15'	6	1	1901

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<b>Steamers</b>											
47	Cabotia (Can.) ....	1398	932	Wood.	1900	234'	36'	20'	6	1	1880
56	Cadillac . . . . .	1263	1068	Steel.	2300	230'	37'	19'	8	1	1892
48	Cadwell, C. W. ....	592	212	Steel.	Sand	152'	36'	10' 6"			1911
198	Caldera . . . . .	6328	4686	Steel.	9500	504'	54'	30'	30	3	1908
49	Calcite . . . . .	3996	2459	Steel.	5500	416'	54'	29'	20	3	1912
145	Caledonia . . . . .	2197	1509	Wood.	3200	277' 2"	42'	24' 7"	7	1	1888
321	Calgary (Can.) ....	1638	1305	Steel.		248'	42' 6"	20' 6"			1912
56	Calgarian (Can.) ..	2326	1301	Steel.	3000	244' 6"	42' 6"	26' 6"	6	3	1912
296	Calumet . . . . .	4928	3673	Steel.	7300	420'	52'	28'	23	4	1907
188	Canisteo . . . . .	595	539	Wood.	Sand	182' 2"	34' 3"	12' 2"	4		1886
56	Canadian (Can.) ...	2214	1444	Steel.	2800	248' 6"	43'	26'	6	3	1907
398	Canobie (Can.) ....	1748	1051	Wood.	2200	252'	38'	21'			1887
296	Canopus . . . . .	4978	3770	Steel.	8200	464'	50'	28'	14	4	1905
153	Cardinal (Can.) ....	237		Wood.		121'	24'	10' 9"			1875
153	Carleton (Can.) ....	1351	830	Steel.	2000	240'	41'	14' 2"	5	1	1907
34	Carter, E. D. ....	6359	5063	Steel.	9500	504'	54'	30'	30	3	1906
122	Carter, W. J. ....	235	171	Wood.	450	122'	28'	9' 6"			1886
396	Case . . . . .	2278	1901	Wood.	3300	286'	42' 6"	22'	7	1	1889
42	Castalia . . . . .	3092	2178	Steel.	4500	364'	40'	24' 6"	11	3	1890
79	Centurion . . . . .	3401	2728	Steel.	5000	360'	44' 6"	26' 6"	10	3	1893
296	Cepheus . . . . .	4551	3451	Steel.	6900	416'	50'	28'	12	4	1903
296	Cetus . . . . .	4720	3282	Steel.	6900	416'	50'	28'	12	4	1903
247	Chamberlin, C. W. (Can.) . . . . .	385	243	Wood.	350	127'	26' 6"	9' 7"			1881
270	Champlain . . . . .	5494	4153	Steel.	8500	444'	56'	30'	25	3	1910
128	Cherokee . . . . .	1177	636	Wood.	1400	208' 7"	35' 9"	14'	5	1	1889
389	Chicago . . . . .	3195	2546	Steel.		325'	44'	28'			1901
202	Chipman, Susie ....	216	164	Wood.	300	122'	26'	9' 5"			1885
193	Chisholm, Jr., Alva S.	478	259	Wood.	600	150'	35'	8'			1900
79	Choctaw . . . . .	1573	1256	Steel.	3000	266'	38'	22' 6"	7	1	1892

DIMENSIONS OF LAKE VESSELS



GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel L'gth	Beam	Depth			
<b>Steamers</b>											
167	Christie, T. S. ....	517	471	Wood.	800	160'	30' 3"	12'	4	1	1885
366	Christopher . ....	4260	3137	Steel.	6400	410'	48'	28'	12	4	1901
344	City of Bangor ....	4202	3058	Steel.	6600	445'	44' 6"	27' 8"	13	4	1896
402	City of Berlin ....	2051	1711	Wood.	3200	298'	41'	21'	16	1	1891
76	City of Mt. Clemens	132	97	Wood.	275	106' 6"	23' 3"	7' 6"	3	1	1884
374	City of Naples ....	2340	1973	Wood.	3500	301'	42' 6"	22' 8"	9	1	1892
41	City of New York (Can.) . ....	292	199	Wood.	500	136'	27' 6"	11' 6"			1863
254	Clarke, E. A. S. ....	4377	2823	Steel.	6800	416'	50'	28'	22	4	1899
254	Clement, S. M. ....	5821	4487	Steel.	8500	480'	52'	30'	28	3	1905
193	Clinton . ....	124	62	Wood.	300	96'	25'	6' 2"			1898
8	Codorus . ....	2165	1802	Steel.		275'	40'	26'			1892
25	Coffinberry, H. D. ..	778	509	Wood.	850	191' 4"	33' 6"	13' 4"	4	1	1874
103	Colborn, A. R. ....	251	207	Wood.	400	129' 9"	28'	9' 6"	2	1	1882
299	Cole, Thomas F. ...	7268	5484	Steel.	11500	585'	58'	32'	35	3	1907
299	Colgate, James B. ..	1713	1318	Steel.	3300	308'	38'	24'	12	1	1892
295	Collinge . ....	1601	1280	Wood.	2300	251' 6"	38' 3"	21' 3"	6	1	1883
119	Collinwood (Can.) ..	4314	3285	Steel.	6300	386'	50'	28'	11	4	1908
241	Colonel . ....	3879	3044	Steel.	5700	356'	50'	28'	10	3	1901
182	Commodore . ....	2082	1927	Wood.		265'	42'	24' 6"			1875
226	Compton (Can.) ...	1530	936	Wood.	2100	235'	36'	25'	6	1	1882
8	Conemaugh . ....	3898	2967	Steel.	5000	350'	46'	30'			1909
89	Conestoga . ....	1726	1562	Wood.		252'	36'	26' 3"			1878
373	Congdon, C. A. ....	6530	4843	Steel.	10200	532'	56'	31'	32	3	1907
84	Conger Coal (Can.) .	511	333	Wood.	850	164'	31' 4"	13' 7"	4	1	1882

<b>Steamers</b>											
114	Cooke, Delos W. ...	3398	2067	Steel.	4300	325'	44'	28'			1897
299	Coralia . ....	4330	3351	Steel.	6000	412'	48'	28'	12	4	1896
299	Corey, Wm. E. ....	6363	5045	Steel.	10500	549'	56'	31'	33	2	1905
34	Cornelius, Adam E..	4900	3736	Steel.	7300	420'	52'	28'	12	3	1908
299	Cornell . ....	5082	3986	Steel.	7500	454'	50'	28' 6"	14	6	1900
120	Corrigan, James ...	6971	5482	Steel.	10200	530'	56'	31'	32	3	1908
180	Corsica . ....	2364	1786	Steel.	3200	299'	40'	24' 6"	8	3	1888
299	Cort, Henry ....	2234	1571	Steel.	3500	320'	42'	25'	8	1	1892
106	Corunna (Can.) ....	1256	775	Steel.	2000	230'	34'	21'		4	1891
296	Corvus . ....	4551	3451	Steel.	6900	416'	50'	28'	12	4	1903
146	Coulby, Harry ....	6495	4939	Steel.	10500	549'	56'	31'	34	3	1906
146	Cowle, John B. ....	6614	5134	Steel.	10000	525'	58'	31'	31	3	1910
87	Craig, Geo. L. ....	3762	3130	Steel.	5800	360'	50'	28'	10	4	1903
299	Crawford, Geo. G. ..	7971	6096	Steel.	12000	585'	60'	32'	36	4	1907
159	Crawford, W. D. ....	6385	4899	Steel.	9500	504'	54'	30'	16	4	1914
338	Cream City ....	570	416	Wood.	850	166'	32'	12' 6"	4	1	1884
366	Crerar, John ....	1550	955	Steel.	2600	241'	41'	18'	6	3	1903
299	Crescent City ....	4213	3675	Steel.	5800	406'	48'	28'	12	4	1897
296	Crete . ....	6189	4764	Steel.	8500	480'	52'	30'	28	4	1907
357	Crowe, Geo. R.(Can.)	2939	2346	Steel.	5000	324'	43'	27'	9	4	1907
254	Cuddy, Loftus ....	6829	5361	Steel.	10000	525'	55'	31'	31	3	1906
165	Curry, S. S. ....	3931	2901	Steel.	6500	432'	45'	26'	13	4	1893
296	Cygnus . ....	4725	3393	Steel.	6900	416'	50'	28'	12	4	1903
<b>Barges</b>											
379	Calkins, Bertie (Can.)	227		Wood.	450	134'	28'	9'			1874
57	Calvert, W. S. (Can.)	543		Wood.		191'	29'	14' 4"			1874
276	Carney, Fred ....	361	342	Wood.	700	152' 2"	30' 4"	10' 6"			1883
9	Carrier . ....	187	177	Wood.	375	123'	26'	8' 6"			1865
148	Carpenter, A. A. ...	540	524	Wood	1000	165' 6"	33'	12' 2"			1881
299	Carrington . ....	3180	2861	Steel.	5500	352'	44'	26'	11	3	1897



GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel L'gth	Beam	Depth			
<b>Barges</b>											
170	Case, J. I. ....	827	786	Wood.	1400	208'	34' 6"	14' 6"	6		1874
341	Casey, Lyman (Can.)	277		Wood.	550	136'	26'	13'			1867
236	Cataract (Can.) ....	240	198	Wood.	300	105'	24'	10' 5"			1874
79	Chattanooga . . . . .	2339	2266	Wood.	4000	308'	45'	21' 6"	10	3	1898
322	Chickamauga . . . . .	2472	2399	Wood.	4300	322'	45'	21' 6"	11	3	1898
92	Chieftain . . . . .	2704	2692	Wood.	4900	342'	46'	21' 6"	11	1	1902
170	City of Chicago ....	327	310	Wood.	600	140' 2"	30' 2"	11' 6"			1861
338	City of Sheboygan .	259	210	Wood.	500	135' 2"	27' 4"	10'			1871
234	Coates, L. B. ....	189	179	Wood.	350	116' 1"	25' 6"	8' 1"			1874
97	Cobalt (Can.) ....	295		Wood.	500	138'	26'	10'			1875
190	Clint, D. K. ....	729	692	Wood.	1200	168' 6"	32'	18' 8"			1872
98	Commodore . . . . .	550	565	Wood	1000	170' 8"	33' 8"	11' 8"	5	1	1880
176	Connelly Bros. ....	751	694	Wood.	1700	201'	36'	13' 6"	6	1	1896
296	Constitution . . . . .	3847	3629	Steel.	6500	438'	44'	26'	14	4	1897
329	Cook, Mary Ellen ..	152	126	Wood.	300	118'	25' 6"	8'			1875
74	Cora A. ....	370	362	Wood.	700	146' 4"	31' 6"	11' 2"	4	1	1899
247	Corisande (Can.) ..	276		Wood.	550	137'	26'	11'			1873
299	Corliss, Geo. H. ....	3259	3124	Steel.	5500	352'	44'	26'	11	3	1896
365	Corning, Ida ....	444	422	Wood.	800	168'	31' 3"	10' 9"			1881
376	Corry, Mike ....	380	361	Wood	650	153' 6"	29' 3"	10' 8"			1874
193	Cutler, Dwight G. ..	468	468	Wood	1100	165'	36'	12'			1897
192	Cyrenian (Can.) ...	376	293	Wood.	700	135'	26'	10' 6"			1879
<b>Steamers</b>											
209	Dahlke, H. ....	442	374	Steel.	Sand	152'	34' 6"	10' 6"			1908

<b>Steamers</b>											
366	Dalton, H. G. ....	1614	919	Steel.	2600	241'	41'	18'	6	3	1903
366	Davidson, A. D. ....	1640	987	Steel	2600	241'	41'	18'	6	3	1903
373	Davidson, James E.	6206	4943	Steel.	9500	504'	54'	30'	30	3	1905
34	Davidson, Louis R. .	6356	4996	Steel.	9700	504'	56'	30'	30	4	1912
284	Davidson, Thomas .	2226	1714	Wood	3000	286'	41' 6"	20' 4"	8		1888
94	Davock, Wm. B. ....	4468	3246	Steel.	7200	420'	52'	28'	12	4	1907
88	Desmond . . . . .	456	355	Wood.	Sand	149'	30' 6"	9' 6"			1892
8	Delaware . . . . .	3901	3250	Steel.		350'	46'	30'			1905
146	Denmark . . . . .	5448	4434	Steel.	8400	440'	56'	28'	24	4	1909
398	Derbyshire, Senator (Can.) . . . . .	1246	987	Wood	2200	220'	40'	18'	6	1	1897
203	Dewar, J. D. ....	52	41	Wood		72'	18'	16'			1885
299	Dickson, Wm. B. ....	7568	5712	Steel.	11500	580'	58'	32'	36	3	1910
240	Dimmick, J. K. ....	4651	3547	Steel.	6800	423'	51'	28'	13	4	1900
299	Dinkey, Alva C. ....	7514	5822	Steel.	11500	580'	58'	32'	36	3	1909
24	Donaldson, John A. .	4315	3110	Steel.	6300	380'	50'	28'	20	3	1908
343	Donaldson, J. P. ...	521	425	Wood.	700	185'	30' 4"	12'	4	1	1880
56	Donnacona (Can.) ..	1906	1222	Steel.	3100	245'	42' 4"	20' 8"		2	1900
159	Donner, W. H. ....	6311	4843	Steel.	9500	504'	54'	30'	16	4	1914
56	Doric (Can.) ....	2359	1452	Steel.	2800	247'	43'	25' 5"	6	2	1903
134	Douglas . . . . .	230	123	Wood.	225	120' 3"	22' 10"	8' 6"			1882
110	Doville, R. E. ....	199	135	Steel.		116'	28'	7'			1905
2	Drummond, T. J. (Can.) . . . . .	2201	1664	Steel.	3300	247' 9"	43' 8"	22' 8"	6	3	1910
389	Duluth . . . . .	4623	3785	Steel.		381'	50'	30'			1903
52	Duncan, John (Can.)	1517	924	Wood	1800	225' 2"	37' 8"	20' 3"	6		1891
56	Dundee (Can.) ....	2278	1531	Steel.	3000	250'	43'	23' 5"		3	1907
56	Dunelm (Can.) ....	2318	1480	Steel.	3000	250'	43' 1"	26' 6"			1907
366	Dunham, James S. ..	4795	3644	Steel.	7300	420'	52'	28'	23	4	1906
146	Dunn, John, Jr. ....	6160	4802	Steel.	10000	504'	58'	30'	15	3	1907
146	Durston, J. F. ....	4791	3500	Steel.	7800	432'	52'	28'	23	3	1908



GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel L'gth	Beam	Depth			
<b>Steamers</b>											
254	Dustin, A. C. ....	7316	5609	Steel.	10200	525'	58'	31'	32	3	1913
127	Dwyer, W. H. (Can.)	1770	1142	Steel.	2800	250'	42' 9"	18' 7"		3	1913
<b>Barges</b>											
137	Davis, Lyman M. (Can.) . . . . .	198		Wood.	350	123'	27' 2"	9' 4"			1873
60	Day, Eliza . . . . .	139	132	Wood.	250	97' 6"	25' 6"	8' 4"			1869
343	Dayton . . . . .	462	439	Wood.	650	184' 2"	30'	9' 8"	4	1	1871
31	Delaware . . . . .	524	487	Wood.	1000	173' 6"	30' 4"	13'	5	1	1868
170	Delta . . . . .	269	266	Wood.	500	134'	28' 9"	10' 3"	3		1890
303	Dobbins, D. P. (Can.)	447		Wood.	900	162' 3"	31' 6"	12' 2"			1863
349	Dundee (Can.) . . . . .	262	225	Wood.	500	125' 2"	23' 6"	10'			1870
255	Dunmore (Can.) . . . . .	675	590	Wood.	1100	182' 5"	34' 9"	11' 9"			1895
327	Dunn, S. H. (Can.)..	458		Wood.	825	164' 8"	26' 8"	12' 7"			1877
<b>Steamers</b>											
299	Eads, James B. ....	3746	2970	Steel.	5000	400'	42' 10"	28'	12	3	1894
275	Earling, E. J. . . . .	6657	5140	Steel.	10000	525'	55'	31'	32	3	1906
244	Easton (Can.) . . . . .	1757	1129	Steel.	2800	250'	42' 6"	18' 6"	6	3	1912
265	Eddy, Charles A. . . . .	2075	1552	Wood.	3200	281'	40' 8"	20' 6"	7	1	1889
34	Eddy, Selwyn . . . . .	2846	2164	Steel.	4400	343'	42'	25'	9	1	1893
299	Edenborn, Wm. ....	5910	4531	Steel.	8300	478'	52'	30'	15	6	1900
244	Edmonton (Can.) ..	1982	1340	Steel.	3000	249'	42' 8"	23'	6	3	1906
406	Edwards, Wm. . . . .	1272	973	Wood.	1500	226'	35' 9"	20'	6		1879
56	Egan, Wiley M. (Can.)	1733		Wood.	2500	252'	39' 8"	21' 6"	7	1	1887

<b>Steamers</b>											
296	Elba . . . . .	4963	3621	Steel.	7300	420'	52'	28'	23	4	1907
159	Elphicke, Mary C. ..	4904	3879	Steel.	7300	430'	50'	28' 6"	24	3	1901
251	Ellen . . . . .	349	194	Wood.	Sand	120'	30' 6"	8'			1893
299	Ellwood, Isaac L. . . . .	5904	4526	Steel.	8300	478'	52'	30'	15	6	1900
56	Emperor (Can.) . . . . .	7031		Steel.	10000	525'	56'	31'	30	5	1911
299	Empire City . . . . .	4118	3268	Steel.	6300	405'	48'	28'	12	4	1897
56	Empress of Midland (Can.) . . . . .	2223	1629	Steel.	3200	252'	42' 6"	25' 6"	7	3	1907
56	Empress of Ft. Wil- liam (Can.) . . . . .	2101	1382	Steel.	3000	250'	48'	25'	6	4	1908
24	England, R. W. . . . .	3887	2935	Steel.	5700	356'	50'	28'	18	4	1904
299	Ericsson, John . . . . .	3200	2378	Steel.	5800	390'	48'	27'	11	4	1896
<b>Barges</b>											
374	Eddy, John F. . . . .	1678	1252	Wood.	2600	259'	37' 6"	20'			1886
242	Edwards, J. R. . . . .	435	413	Wood.	800	175' 2"	30' 6"	12' 2"	5	1	1883
217	Elida . . . . .	192	182	Wood.	250	111' 8"	24' 4"	10'			1863
311	Ewen, Frank D. (Can.) . . . . .	882		Wood.	1750	202'	37'	16'			1888
314	Exile . . . . .	387	368	Wood.	700	152' 6"	29' 8"	11' 2"	4		1867
<b>Steamers</b>											
56	Fairfax (Can.) . . . . .	1424	984	Wood.	2100	209'	38'	19'			1890
255	Fairmount (Can.) ..	1895	1184	Steel.	3000	248' 6"	42'	20' 6"	5	2	1903
299	Fairbairn, Sir Wm. . . . .	4219	3181	Steel.	6000	414'	45' 6"	28'	12	4	1896
299	Farrell, James A. . . . .	7705	5967	Steel.	11500	580'	58'	32'	34	3	1912
299	Filbert, Wm. J. . . . .	7962	6189	Steel.	12000	585'	60'	32'	36	4	1907
14	Fisher, Erwin L. . . . .	1184	805	Steel.	2000	220'	40'	17'	5	1	1910
159	Fitch, Wm. F. . . . .	3629	2632	Steel.	5000	346'	48'	28'	10	3	1902
300	Fitzgerald, R. P. . . . .	1681	1175	Wood.	2300	256'	38'	20'	7	1	1887
366	Fitzgerald, Wm. E. . . . .	5300	3701	Steel.	7300	420'	52'	28'	23	4	1906
159	Flagg, G. A. . . . .	3062	2128	Steel.	4300	318'	42'	26' 6"	9	3	1901



GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel L'gth	Beam	Depth			
<b>Steamers</b>											
374	Fleetwood . . . . .	1687	1175	Wood.	2300	265' 6"	40' 6"	19' 4"			1887
266	Fletcher, F. W. . . . .	495	314	Wood.	600	161'	32'	11' 3"	3	1	1891
252	Flower, Roswell P..	1593	1165	Wood.	2400	264'	38'	20' 6"	1	1	1887
126	Follette, James W. .	756	538	Wood.		212' 3"	35' 6"	12'	5	1	1881
269	Ford, J. C. . . . .	609	710	Wood.	950	172'	33'	12'	4	1	1889
56	Fordonian (Can.) ..	2367	1905	Steel.	3400	250'	42' 8"	26' 6"	7	4	1912
15	Foster, Parks . . . . .	1729	1475	Steel.	2900	262'	38'	23'	7	3	1889
365	Foster, I. N. . . . .	355	277	Wood.	500	134' 9"	26'	11' 6"			1872
2	Franz, W. C. (Can.)	3428	2029	Steel.	5600	346'	48'	28'	10	3	1901
159	French, G. Watson .	3883	2725	Steel.	5600	356'	50'	28'	18	3	1903
299	Frick, Henry C. . . . .	6490	5016	Steel.	10500	549'	56'	31'	34	2	1905
79	Frontenac . . . . .	2003	1676	Steel.	3200	270'	40'	24'	7	3	1889
166	Fryer, Robt. R. (Can.)	1810	1451	Wood.	3100	281'	41' 4"	20'	8	1	1888
299	Fulton, Robert . . . . .	4219	3181	Steel.	6000	414'	45' 6"	28'	12	4	1896
<b>Barges</b>											
128	Fassett, Theo. S. . . .	548	521	Wood.	1000	186' 8"	31' 9"	11'	5	1	1881
74	Fearless . . . . .	165	156	Wood.	300	120'	24'	8'			1867
170	Filer, D. L. . . . .	357	339	Wood.	600	156' 6"	30'	10'	4		1871
118	Filer, Grace M. (Can.) . . . . .	215		Wood.	450	128'	27'	9'			1874
297	Filmore, C. J. . . . .	410	389	Wood.	750	161'	31'	10' 3"	4	1	1889
133	Flint, Sam . . . . .	499	474	Wood.	800	167' 7"	34' 1"	12' 7"	4	1	1868
321	Ford River (Can.) ..	299		Wood.	550	143'	29'	10' 8"			1879
196	Francombe, J. A. . . .	658	625	Wood.	1300	180'	36'	13'	5	1	1889

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<b>Barges</b>											
20	Freeport (Can.) . . . .	373		Wood.	650	137'	26'	12'			1873
299	Fritz, John . . . . .	4693	4447	Steel.	7900	436'	50'	28' 6"	15	4	1898
176	Fryer, Robt. L. . . . .	527	501	Wood.	1000	175'	33' 3"	11' 3"	5	1	1880
<b>Steamers</b>											
299	Gary, Elbert H. . . . .	6331	4988	Steel.	10500	549'	56'	31'	34	2	1905
397	Garretson, General .	6765	5371	Steel.	9600	520'	54'	31'	16	4	1907
246	Gargantua (Can.) ..	1090		Wood.	2200	220'	40'	21'	7	1	1882
299	Gates, John W. . . . .	5946	4440	Steel.	8300	478'	52'	30'	15	6	1900
90	Georgetown . . . . .	1358	919	Steel.	2200	243'	40'	18' 3"	6	1	1900
299	German . . . . .	2348	1875	Steel.	3300	296'	40'	24' 6"	8	3	1891
46	Gettysburg . . . . .	837	464	Wood.	1200	208'	35' 6"	14' 6"	5	1	1887
109	Gill, Alice M. . . . .	264	203	Wood.	300	127'	28'	10'	3		1887
37	Gladstone . . . . .	2453	1913	Wood.	3000	283'	40'	23'			1888
56	Glenellah (Can.) . . .	2272	1454	Steel.	3000	250'	43' 2"	23' 5"	5	3	1905
301	Glenfinnan (Can.) ..	2406	1472	Steel.	3000	324'	42'	23' 9"	10	2	
321	Glenfoyle (Can.) . . .	1680	1051	Steel.	2700	250'	42' 6"	20'	6	3	1913
347	Glengarry (Can.) ..	509	215	Wood.	1000	170'	26'	11' 2"			1872
301	Glenlivet (Can.) . . .	1860	1089	Steel.	2700	266'	38'	24'	8	3	1891
321	Glenmavis (Can.) ..	1686	1055	Steel.	2700	250'	42' 6"	20'	6	3	1913
255	Glenmount (Can.) ..	1957	1246	Steel.	3000	249'	42' 4"	23'	4	2	1907
301	Glenlyon (Can.) . . . .	2759	1645	Steel.	3000	328'	42'	25'	9	3	1893
301	Glenshee (Can.) . . .			Steel.	9000	480'	54'	30'	14	3	1908
298	Gogebic . . . . .	1680	1312	Wood.	2500	275'	40' 4"	19' 6"	7	1	1887
56	Gordan, D. A. (Can.)	2301	1434	Steel.	3400	249' 3"	43'	26' 6"	6	3	1910
77	Gould, Jay . . . . .	840	523	Wood.	1500	213' 8"	33' 9"	11' 6"			1869
373	Goulder, Harvey D. .	6617	5219	Steel.	9700	525'	55'	31'	32	3	1906
324	Gowan, Albert Y. . .	359	176	Wood.	400	124'	26'	14'			1888
229	Graham, Geo. A. (Can.) . . . . .	2409	1577	Steel.	3300	292'	40'	24' 6"	8	3	1891
24	Grammer, G. J. . . . .	4471	3703	Steel.	6600	434'	48'	28'	13	5	1902
254	Gratwick, Wm. H. . .	4776	3352	Steel.	6800	416'	50'	28'	12	4	1902

DIMENSIONS OF LAKE VESSELS



GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel L'gth	Beam	Depth			
<b>Steamers</b>											
345	Green, C. H. ....	694	504	Wood.	950	192' 6"	33'	12' 8"	4	1	1881
115	Greene, M. T. ....	523	422	Wood.	750	155'	30'	11' 6"	4	1	1887
19	Griffin . ....	1879	1526	Steel.	2700	266'	38'	24'	8	3	1891
44	Groh, Mary ....	139	69	Wood.	Sand	112'	22'	8'			1873
209	Gunnell, E. ....	688	468	Steel.	Sand	170'	36'	10'			1912
<b>Barges</b>											
255	Gaskin, John (Can.) .	521	487	Wood.	900	165' 8"	31' 4"	12'			1881
215	Gawn, Thomas ....	549	522	Wood.	1000	170' 8"	31' 7"	13' 6"	6	1	1872
129	Genoa . ....	730	694	Wood.	1200	188' 9"	34' 1"	13' 2"	5	1	1873
65	Georger, F. A. (Can.)	825	784	Wood.	1500	200' 6"	35' 4"	15'			1874
136	Godfrey, Jermiah ..	653	620	Wood.	1250	177'	34' 9"	14'	6	1	1881
307	Golden Age ....	1846	1763	Wood.	3100	278'	37' 8"	20'	8	1	1882
31	Goshawk . ....	501	461	Wood.	950	180'	32' 4"	11' 6"	5	1	1866
92	Grampian . ....	844	802	Wood.	2200	218'	38'	13' 2"		1	1894
92	Granada . ....	1729	1643	Wood.	3200	247'	40'	21' 6"		1	1895
10	Grant, Levi ....	204	194	Wood.	400	127'	27'	8'			1872
37	Grover, Maurice B. .	2147	1986	Wood.	3300	281' 4"	40' 6"	23' 9"			1887
18	Guido (Can.) ....	135		Wood.	250	114'	24'	8'			1856
<b>Steamers</b>											
311	Hackett, J. H. (Can.)	117		Wood.		87' 9"	21' 2"	8' 8"			1901
311	Hackett, Wm. (Can.)	126		Wood.		98' 7"	20'	8'			1900
56	Haddington . ....	1603	1010	Steel.	3000	243'	42'	18'	6	3	1904
357	Hagarty, J. H. G. (Can.) . ....	7462	5704	Steel.	10000	529'	58'	31'	16	6	1914

<b>Steamers</b>											
281	Hall (Can.) ....	247	136	Comp.	300	102' 8"	22' 5"	7' 4"			1889
156	Hall, Henry B. ....	1152	962	Wood.	1500	213'	35'	19'	6	1	1881
178	Hall, Stephen C. (Can.) . ....	511	307	Wood.	550	161' 2"	30' 5"	10' 6"	4	1	1880
56	Hamiltonian (Can.)	2346	1277	Steel.	3000	244'	42' 6"	26' 6"	6	3	1912
180	Hanna, D. R. ....	7023	5491	Steel.	10200	532'	56'	32'	32	3	1906
322	Hanna, H. M., Jr. ..	6204	4689	Steel.	9000	504'	54'	30'	15	3	1908
159	Hanna, Leonard C. .	6356	4922	Steel.	9500	504'	54'	30'	30	3	1905
254	Hanna, M. A. ....	4661	3116	Steel.	6800	410'	50'	28'	22	4	1899
82	Harlow . ....	575	482	Wood.	1000	194'	35'	10' 6"	5	1	1891
373	Hart, Frank W. ....	4307	3374	Steel.	6300	380'	50'	28'	11	4	1902
373	Hartwell, Fred G. ..	6223	4865	Steel.	10000	504'	58'	30'	15	3	1908
299	Harvard . ....	5054	4061	Steel.	7500	454'	50'	28' 6"	14	6	1900
404	Harvester, The ....	7188	5690	Steel.	10200	525'	58'	31'	32	3	1911
48	Harvey, F. E. ....	355	288	Wood.	Sand	133'	31'	7' 6"			1899
331	Haskell, Wm. A. ..	1530	1440	Wood.		240'	37'	25'			1884
209	Hausler, M. G. ....	609	414	Steel.	Sand	144'	35'	10'			1910
32	Havey, Hugh R. ....	474	389	Wood.	800	173' 6"	30' 7"	12'	4	1	1880
165	Hawgood, H. B. ....	4655	3386	Steel.	6800	414'	50'	28'	12	4	1903
238	Hazard, W. A. ....	372	267	Wood.	500	154'	29'	11' 8"	3		1890
397	Hebard, Chas. S. ...	6291	4854	Steel.	9500	504'	54'	30'	30	3	1906
156	Hecla . ....	1110	900	Wood.	1800	224'	34' 3"	17' 6"	6	1	1882
373	Heffelfinger, F. T. ..	4897	3630	Steel.	7000	430'	50'	28' 6"	13	6	1901
377	Heiden, Charles ...	717	446	Steel.	Sand	160'	35'	14'			1913
15	Helena . ....	2083	1579	Wood.	3200	275'	42'	20'	8	1	1888
174	Heien C. ....	622	460	Wood.	900	186'	35'	12' 4"	5	1	1874
296	Hemlock . ....	4796	3501	Steel.	7300	420'	52'	28'	23	4	1907
211	Hennipin . ....	990	639	Wood.	1200	208' 8"	35'	12' 4"			1888
167	Hettler, H. H. ....	789	536	Wood.	1200	210'	34' 7"	13' 3"	5	1	1890
171	Hickley . ....	131	34	Wood		108'	24'	8'			1901
299	Hill, James J. ....	6025	4578	Steel.	8300	478'	52'	30'	15	6	1900





**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).
- 8. 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. Ogilvie Flour Mills Co., Ltd.
- 17. Western Terminal Elevator.





GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel Length	Beam	Depth			
<b>Steamers</b>											
103	Hilton . . . . .	166	166	Wood.	250	110'	26' 6"	7' 4"			1867
170	Hines, L. Edward ..	982	790	Wood.	1200	203'	37' 5"	14' 1"	4		1893
55	Holcomb, Ralph T. (Can.) . . . . .	375	250	Wood.	450	133'	30'	9' 6"			1898
254	Holden, H. S. . . . .	4444	3091	Steel.	6800	408'	50'	28'	22	4	1898
128	Holland, Robt. . . . .	423	339	Wood.	550	156'	30'	11' 5"	3	1	1873
165	Holmes, Edwin F. ..	4787	3517	Steel.	6800	420'	50'	28'	12	4	1904
108	Honoreva . . . . .										
373	Hoover & Mason ...	5841	4578	Steel.	9500	504'	54'	30'	16	3	1905
299	Houghton, Douglas .	5332	4034	Steel.	7300	456'	50'	28'	14	4	1889
299	House, Francis E. .	7769	5943	Steel.	12000	585'	60'	32'	36	4	1907
366	Howe, Geo. C. . . . .	1550	955	Steel.	2600	241'	41'	18'	6	3	1903
296	Hoyt, James H. . . . .	4364	3234	Steel.	6600	404'	50'	27'	23	6	1902
146	Hubbard, Chas. . . . .	4846	4287	Steel.	7600	438'	52'	28'	13	3	1907
322	Hubbard, C. Russell	6839	5389	Steel.	10200	532'	56'	31'	32	3	1906
405	Huron . . . . .	4810	3051	Steel.	6000	416'	56'	30'	21	3	1914
263	Huron . . . . .	1945	1309	Steel.	2800	238'	42'	26' 6"			1898
320	Huron City . . . . .	368	277	Wood.	500	167' 8"	29'	10' 8"	3	1	1867
402	Hutchinson, C. L. ..	6377	4860	Steel.	9500	504'	54'	30'	30	4	1910
180	Hutchinson, J. T. .	3734	2780	Steel.	5500	346'	48'	28'	17	3	1901
181	Hydro . . . . .	1282	872	Steel.		169'	40'	19'			1913
<b>Barges</b>											
74	Hackley, C. H. . . . .	207	197	Wood.	400	124' 8"	27' 2"	8' 4"			1868
255	Hamilton (Can.) ...	970	970	Comp.	1900	202'	41'	13'	6	3	1901

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<b>Barges</b>											
317	Hanscombe, Belle ..	294	279	Wood.	500	138' 8"	26'	11'			1874
176	Harold . . . . .	718	682	Wood.	1400	190'	34'	13'	6	1	1891
108½	Harriet D. (Can.) ..	460		Wood.	750	161' 6"	32' 2"	11'	5	1	1885
90	Harrison, Ben. . . . .	538	511	Wood.	1000	175'	32' 2"	12'			1889
385	Hartnell, Geo. E. ...	3265	3124	Steel.	5600	352'	42'	27'	11	3	1896
255	Hector (Can.) . . . . .	539		Wood.	1000	170' 3"	35' 5"	11' 9"			1882
170	Helvetia . . . . .	793	753	Wood.	1500	204' 6"	35' 6"	13' 8"	6		1873
288	Herschel (Can.) ...	238		Wood.	450	121'	26'	10'			1872
255	Hilda (Can.) . . . . .	418		Wood.	800	160'	30'	12' 3"			1898
276	Hoboken . . . . .	299	284	Wood.	500	139' 6"	26'	11'			1868
231	Holland, Grace . . . . .	629	597	Wood.	1200	189' 6"	33'	12' 8"	5	1	1880
128	Holland, Nelson C. .	564	536	Wood.	1000	187' 6"	31' 8"	11' 2"	5	1	1881
299	Holley, Alex. . . . .	2721	2554	Steel.	6300	361' 6"	46'	26'	12	3	1896
315	Holmes, J. A. . . . .	167	159	Wood.	300	112' 3"	26' 6"	8' 7"			1867
338	Hossack, W. D. . . . .	330	272	Wood.	600	151' 6"	30'	10' 4"			1872
170	Hutchinson, E. C. ..	736	699	Wood.	1400	195' 7"	34' 2"	14'	6		1873
141	Hutt, Hattie (Can.).	230	188	Wood	400	127'	26'	10'			1873
<b>Steamers</b>											
330	Ida E. (Can.) . . . . .	181	136	Wood.	375	132'	28' 6"	9' 3"			1887
183	Imperial (Oil) (Can.)	636	412	Steel.		162' 4"	25' 5"	7' 4"			1889
183	Imperoyal (Oil) (Can.) . . . . .	2253	1384	Steel.	Oil	249' 6"	43' 1"	19' 8"			1913
183	Impoco (Oil) (Can.)	1683		Steel.		242'	40' 1"	20'			1910
255	India (Can.) . . . . .	976	573	Wood.	1700	215' 9"	36' 4"	15'			1899
296	Indus . . . . .	3871	2997	Steel.	5600	356'	50'	28'	10	3	1901
317	Inland (Can.) . . . . .	1889	1098	Steel.		248'	42'	27'	9		1894
56	Ionic (Can.) . . . . .	1708	1030	Iron..	2000	231'	35' 6"	24' 6"	6	4	1872
198	Ireland, Robert L. .	6387	4889	Steel.	9500	504'	54'	30'	30	4	1914
90	International . . . . .	1815	1343	Steel.		244'	43'	19' 2"	6	1	1914
357	Iroquois (Can.) . . . .	2359	1452	Steel.	3500	247'	43'	25' 6"	6	2	1902

DIMENSIONS OF LAKE VESSELS



GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel L'gth	Beam	Depth			
<b>Steamers</b>											
156	Iselin, Adrian	2072	1346	Steel.	3000	244'	43'	23'	11	2	1915
79	Ishpeming	6924	5476	Steel.	10000	530'	56'	31'	31	3	1906
145	Italia	2305	1735	Wood.	3200	289'	42'	24'	7	1	1889
<b>Barges</b>											
167	Interlaken	567	538	Wood.	1100	170'	34' 2"	11'	5	1	1893
364	Iowa (Can.)	366		Wood.		149'	26'	11'			1874
45	Ireland (Can.)	339		Wood.	700	147'	28'	9' 6"			1863
307	Iron Cliff	1116	1077	Wood.	2000	212' 4"	35'	18'	6	1	1881
<b>Steamers</b>											
189	Jacob, C. W.	2062	1714	Wood.	3000	298'	41'	21'	9	2	1891
56	Jaques, C. A. (Can.)	2105	1590	Steel.	3500	249'	43'	25'	6	3	1910
180	Jenkins, Chas. O.	6285	4287	Steel.	9500	504'	54'	30'	30	3	1907
165	Jenks, J. M.	4644	3381	Steel.	6800	414'	50'	28'	12	4	1902
111	Jex, H. N.	420	479	Wood.	650	169' 4"	26' 5"	10' 3"			1868
24	Jones, B. F.	6939	5492	Steel.	10000	530'	56'	31'	32	3	1906
156	Jones, F. P.	1706	1059	Steel.	3000	244'	43'	21'	6	2	1913
56	Juno (Can.)	288	196	Wood.	350	139' 7"	26' 8"	8' 8"	4		1895
296	Jupiter	3719	2769	Steel.	5600	346'	48'	28'	10	3	1901
<b>Barges</b>											
178	Jackson, G. K. (Can.)	390	353	Wood.	700	163' 6"	31'	9' 1"	4	1	1882
158	Jenness, B. W.	356	339	Wood.	750	155'	29' 6'	10' 6"	4	1	1867

<b>Barges</b>											
258	Jennette (Can.)	329		Wood.	700	141'	28'	11'			1881
299	Jenny, W. LeBaron.	3422	3280	Steel.	6000	378'	45'	26'	11	3	1897
171	Jessie	201	201	Wood.		112'	24'	9'			1900
6	Jones, Chester B.	493	470	Wood.	900	167'	30' 3"	12"	5	1	1873
132	Jones, John V.	200	190	Wood.	400	125'	27'	8' 6"			1876
124	Joses	120	114	Wood.	225	99' 9"	24'	7' 1"			1866
190	Judd, E. T.	389	369	Wood	800	149' 6"	29' 6"	11' 4"			1872
<b>Steamers</b>											
176	Kalkaska	679	555	Wood.	900	178'	33' 9"	15' 6"	4	1	1884
262	Kaministiquia (Can.)	2172	1401	Steel.	3300	243'	43'	22' 6"	6	3	1909
51	Kearsarge	3092	2721	Steel.		328'	44'	27'			1894
366	Keefe, J. S.	1640	944	Steel.	2600	241'	41'	18'	6	3	1903
193	Kelly Island	881	414	Steel.	Sand	175'	38'	10' 6"			1914
194	Kendall, Harvey J.	398	264	Wood.	500	141' 7"	31'	9' 4"	5	1	1892
254	Kennedy, Hugh	7064	5500	Steel.	10200	532'	56'	32'	32	3	1907
56	Kenora (Can.)	1955	1274	Steel.	3000	249'	42' 6"	23'		3	1907
34	Kensington	3762	3130	Steel.	5800	360'	50'	28'	10	4	1903
296	Kerr, D. G.	5531	3991	Steel.	7700	448'	52'	28'	25	6	1903
317	Ketchum, J. B., 2d (Can.)	1109	763	Steel.	1500	193'	40' 6"	13'	4	1	1892
195	Keybell (Can.)	1730	1254	Steel.	3000	244'	42' 6"	20'	6	3	1912
195	Key Port (Can.)	1721	1297	Steel.	3000	250'	42' 5"	20'	6	3	1909
195	Keynor (Can.)	1760	1090	Steel.	3100	250'	42' 5"	20'	6	3	1914
195	Keyvive (Can.)	1768	1045	Steel.	3100	250'	42' 5"	20'	6	3	1913
195	Key West (Can.)	1725	1297	Steel.	3000	250'	42' 5"	20'	6	3	1909
343	King, Geo.	532	380	Wood.	750	176' 5"	30' 8"	13' 5"	4	1	1874
24	King, Willis L.	7568	5712	Steel.	11500	580'	58'	32'	36	3	1910
255	Kinmount (Can.)	2112	1598	Steel.	3000	249'	43'	25'	6	3	1908
385	Kirby, S. R.	2338	1823	Comp.	3300	294'	42'	26'	9	1	1890
333	Kongo	672	482	Wood.	950	215'	31'	10' 6"	4	1	1881



GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel Length	Beam	Depth			
<b>Steamers</b>											
34	Kopp, Jacob T. ....	6035	4530	Steel.	8700	480'	54'	30'	14	3	1907
366	Kotcher, C. W. ....	4961	3632	Steel.	7400	420'	52'	28'	23	4	1908
<b>Barges</b>											
101	Katahdin (Can.) ...	381		Wood.	800	150'	30' 9"	10' 9"			1888
105	Keewatin (Can.) ...	199		Wood.	350	120'	25'	10'			1888
111	Keith, Ida .....	489	465	Wood.	900	163' 3"	30' 6"	13' 4"	1		1873
317	Kelderhouse, John .	500	475	Wood.	900	168'	32'	12'			1867
193	Kelley, Norman ....	513	497	Steel.	1500	179'	35'	15'			1905
343	Ketchum, J. L. ....	413	393	Wood.	750	156'	31'	10' 4"			1867
348	Kewaunee .....	206	172	Wood.	400	123' 8"	27' 4"	8' 3"			1866
255	Kildonan (Can.) ...	499		Wood.	900	174'	33'	11'			1888
255	Kingston (Can.) ...	578		Wood.		181'	35'	12'			1898
302	Kitchen, J. B. (Can.)	302		Wood.	625	133'	27'	9'			1873
238	Knapp, F. M. ....	384	365	Wood.	800	155'	29' 6"	11' 6"	8	1	1867
299	Krupp, Alfred .....	3259	3124	Steel.	5800	352'	44'	26'	11	3	1896
<b>Steamers</b>											
159	La Belle .....	6407	4876	Steel.	9500	504'	54'	30'	30	4	1909
19	La Salle .....	1921	1596	Steel.	2700	266'	38'	24'	8	3	1890
33	Lackawanna .....	2015	1595	Steel.	3000	260'	39' 2"	24' 6"			1888
254	Lagonda .....	3647	3017	Steel.	5200	375'	46'	28'	10	3	1896
309	Lakeland .....	2425	1813	Steel.		280'	39'	24'			1887
309	Lakeport .....	1829	1669	W. & I.		263'	36' 4"	27'			1880
303	Lake Michigan (Can.)	588		Wood.	450	136'	23' 9"	11' 5"			1872

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<b>Steamers</b>											
309	Lakewood .....	1917	1677	W. & I.		266'	38'	26'			1884
366	Lambert, John .....	1550	929	Steel.	2600	241'	41'	18'	6	3	1903
61	Langell Boys .....	387	286	Wood.	500	151'	30'	11' 2"	2	1	1890
31	Langell, Simon .....	845	677	Wood.	1200	195' 4"	34' 6"	13' 7"			1886
24	Laughlin, James ...	6939	5492	Steel.	10000	530'	56'	31'	32	3	1906
164	Lehigh .....	1464	1035	Iron..	1800	238'	36'	15' 4"	6	1	1880
146	Leonard, Geo. B. ...	4037	2844	Steel.	6300	380'	50'	28'	11	4	1903
180	Leopold, N. F. ....	6929	5245	Steel.	10200	532'	56'	31'	32	3	1908
39	Lewiston .....	1808	1342	Comp.	3000	272'	38'	21'	8	3	1886
242	Linden .....	894	708	Wood.	1500	206'	35'	12' 8"	5	1	1895
299	Linn, Wm. R. ....	4328	3196	Steel.	5800	400'	48'	28'	12	4	1898
377	Little, C. H. ....	324	241	Wood.	Sand	144'	28'	8'			1903
220	Livingstone .....	2134	1622	Comp.	3300	281'	41'	22'	7	1	1889
373	Livingstone, Wm. ...	6634	4927	Steel.	10200	532'	58'	31'	30	3	1908
296	Lupus .....	3871	2997	Steel.	5600	356'	50'	28'	10	3	1901
62	Luzon .....	3582	2778	Steel.	5400	346'	48'	28'	10	4	1902
299	Lynch, Thomas ....	7240	5450	Steel.	11500	580'	58'	32'	36	3	1907
<b>Barges</b>											
113	Lake Forest .....	332		Wood.	700	146'	29'	11'			1869
255	Lapwing (Can.) ...	516		Wood.	1000	175' 7"	31' 2"	12'			1892
74	Lily, E. ....	191	182	Wood.	375	123' 6"	25' 6"	8'			1869
158	Lotus .....	270		Wood.	600	136'	28' 6"	9'			1867
224	Lozen, J. B. ....	565	538	Wood.	1100	178'	32' 6"	12' 4"	6	1	1890
74	Luckey, A. W. ....	311	296	Wood.	700	147' 8"	26' 2"	9' 9"			1865
96	Lyon, Mary (Can.) .	334	310	Wood.	600	138'	26' 2"	12'			1874
<b>Steamers</b>											
156	MacTier, A. D. ....	1706	1059	Steel.	3000	244'	43'	21'	6	2	
114	McCullough, J. C. ..	1895	1604	Iron..	3000	255'	40'	24'			1890
299	McDougall, Alex. ...	3686	2662	Steel.	6800	413'	50'	27'	13	4	1898

DIMENSIONS OF LAKE VESSELS



GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel L'gth	Beam	Depth			
<b>Steamers</b>											
304	McGregor, Mary A. .	711	581	Wood.	1000	179'	33'	13'	4	1	1889
397	McIntosh, H. P. ....	6765	5371	Steel.	9600	520'	54'	31'	16	4	1907
2	McKee, J. A. (Can.)	2158	1374	Steel.	3300	248'	43'	25' 10"	7	3	1908
377	McKerchey, John M.	732	443	Steel.	Sand	161'	37' 1"	11'			1906
56	McKinstry, A. E. (Can.) . . . . .	1964	1203	Steel.	2700	250'	42' 7"	20' 6"	6	3	1910
180	McKinney, Price ..	5250	3927	Steel.	7600	432'	54'	28'	12	4	1908
276	McVittie, Alex. ....	2046	1552	Wood.		240'	42'	25'			1880
254	McWilliams, John J.	3400	2808	Steel.	5200	352'	45'	26'	10	3	1895
<b>Barges</b>											
237	McLachlan, Mary E.	1762	1324	Wood.	2900	251'	41'	16' 2"	8	1	1893
152	McWilliams, Ed. ...	743	706	Wood.	1500	200'	35'	13' 6"	6	1	1893
<b>Steamers</b>											
207	Mack, Wm. S. ....	3720	2785	Steel.	5500	346'	48'	28'	10	4	1901
8	Mahoning . . . . .	2189	1744	Steel.		274'	40'	23'			1892
326	Major (Can.) . . . . .	2150	1721	Wood.	3200	283'	41'	22'	8	1	1889
299	Malietao . . . . .	5229	3921	Steel.	7500	454'	50'	28' 6"	14	3	1899
244	Malton (Can.) . . . . .	1644	974	Comp.	2600	253'	40'	19'	6	1	1888
378	Manchester . . . . .	2132	1611	Comp.	3100	281'	41'	23'	7	3	1889
317	Manistique . . . . .	474	382	Wood.	500	157'	31'	12' 6"			1882
299	Manola . . . . .	2325	1835	Steel.	3300	282'	40'	24' 6"	9	3	1890
56	Mapleton (Can.) ...	1781	1139	Steel.	3400	250'	42' 6"	18' 6"	6	3	1909
299	Maricopa . . . . .	4223	3669	Steel.	5800	406'	48'	28'	12	4	1896

<b>Steamers</b>											
299	Mariposa . . . . .	2831	2306	Steel.	4100	330'	45'	24' 6"	9	3	1892
23	Mariska (Can.) ....	2502	1875	Steel.	3300	282'	40'	24'	9	3	1890
299	Maritana . . . . .	2957	2429	Steel.	4100	320'	45'	24' 6"	9	3	1892
109	Markham, Geo. C. ..	309	250	Wood.	450	141'	28'	10' 8"	3	1	1883
366	Marshall, A. M. ....	1640	987	Steel.	2600	241'	41'	18'	6	3	1903
334	Marshall, Maggie ..	365	279	Wood.	400	150'	30'	11' 4"	3	1	1873
65	Marshall, Samuel (Can.) . . . . .	772	540	Wood.	1100	198'	34'	16' 6"	5	1	1888
56	Martian (Can.) ....	3396	2010	Steel.	5600	346'	48'	28'	10	3	1901
180	Maruba . . . . .	2311	1836	Steel.	3200	291'	40'	24' 6"	8	3	1890
378	Maryland . . . . .	2419	1892	Steel.	3900	316'	42'	24' 6"	8	3	1890
244	Masaba (Can.) ....	1913	1267	Steel.	2500	240'	40'	24' 6"	6	2	1891
299	Mather, Samuel ....	1713	1318	Steel.	3500	308'	38'	24'	12	1	1892
296	Mather, Samuel ....	6751	5408	Steel.	10500	530'	60'	31'	32	3	1906
79	Mather, Wm. G. ....	6838	5183	Steel.	10000	513'	60'	31'	30	3	1905
299	Mataafa . . . . .	4840	3604	Steel.	7300	430'	50'	28' 6"	13	5	1899
317	Matoa (Can.) . . . . .			Steel.	3200	290'	40'	24' 6"	8	3	1890
357	Matthews, W. D. (Can.) . . . . .	3965	2450	Steel.	5600	358'	48'	28'	10	4	1903
216	Mauch Chunk . . . . .	4499	3609	Steel.		381' 7"	50' 5"	28'			1901
26	Maud . . . . .	98	67	Wood.		95'	23'	7'			1899
299	Maunaloa . . . . .	4951	4004	Steel.	7000	430'	50'	28' 6"	13	6	1899
131	Maytham, Thomas .	2329	1972	Steel.	3600	286'	41'	24'	8	1	1892
119	Meaford (Can.) ....	1889	1201	Steel.	3000	248' 5"	42'	20' 6"	7	2	1903
120	Meacham, Daniel B.	6971	5482	Steel.	10200	530'	56'	31'	32	3	1908
131	Mecosta . . . . .	1776	1418	Wood.	3000	281'	40'	20'	7	1	1888
156	Mercur, Fred . . . . .	1224	966	Wood.	1500	232'	35' 6"	20'	6	1	1882
366	Merida . . . . .	3329	2389	Steel.	5100	360'	45'	26'	10	3	1892
32	Miami . . . . .	228	191	Wood.	400	131'	28'	10'	3	1	1888
79	Michigan . . . . .	6924	5476	Steel.	10000	530'	56'	31'	31	3	1906
56	Midland King (Can.)	3959	2450	Steel.	5500	358'	48'	28'	10	4	1903



GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel L'gth	Beam	Depth			
<b>Steamers</b>											
56	Midland Prince (Can.) . . . . .	6636	5141	Steel.	8700	466'	55'	31'	14	4	1907
56	Midland Queen (Can.) . . . . .	1993	1349	Steel.	3200	249'	42' 7"	20' 6"	6	4	1901
322	Miller, Leonard B. . .	6291	4921	Steel.	9500	504'	54'	30'	15	3	1910
39	Miller, P. P. . . . .	3845	2858	Steel.	5700	354'	48'	28'	10	4	1903
344	Milinkett . . . . .	6215	4947	Steel.	9200	504'	52'	30'	29	3	1907
296	Mills, D. O. . . . .	6598	4850	Steel.	10300	532'	58'	31'	33	3	1907
250	Mills, David W. . . . .	925	654	Wood.	1200	202'	34'	13' 2"	5	1	1874
372	Mills, J. E. (Can.)..	149	64	Wood.		108'	23' 5"	7' 8"			1883
178	Mills, Robert . . . . .	2070	1712	Wood.	2800	256'	40'	21' 6"			1888
389	Milwaukee . . . . .	3327	2424	Steel.		325'	44'	28'			1902
362	Minch, Anna C. . . . .	4285	3229	Steel.	6300	380'	50'	28'	20	4	1903
362	Minch, Philip . . . . .	5865	4471	Steel.	8700	480'	52'	30'	28	3	1905
263	Minneapolis . . . . .	2029	1221	Steel.	2800	238'	42'	26'			1897
212	Mitchell, Alfred . . .	1751	1550	Wood.	3100	255'	40'	25' 6"	7	1	1900
322	Mitchell, Samuel . . .	2277	1870	Steel.	3200	293'	40' 6"	24' 6"	8	3	1892
389	Mohawk . . . . .	2357	1616	Steel.		293'	43'	26' 8"			1893
142	Mohegan . . . . .	1216	1014	Wood.	1600	225'	39' 2"	14' 1"	6	1	1894
34	Moll, Clifford F. . . .	5141	3894	Steel.	8300	444'	56'	28'	13	3	1909
260	Moore, John W. . . . .	1961	1689	Steel.	3200	246'	41'	23' 6"	6	2	1890
56	Morden, W. Grant (Can.) . . . . .	8973	6595	Steel.	12500	604'	59'	32'	38		1914
299	Morgan, J. P. . . . .	7161	5530	Steel.	11500	580'	58'	32'	35	3	1906
299	Morgan, J. P., Jr. . . .	7521	5824	Steel.	11500	580'	58'	32'	36	3	1910

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<b>Steamers</b>											
156	Morley, Wm. B. . . . .	1747	1565	Wood	2500	240'	42' 8"	24' 8"			1892
159	Morrell, Daniel J. . .	7239	5419	Steel.	11500	580'	58'	32'	18	3	1906
342	Morrow, Joe S. . . . .	4895	3606	Steel.	7300	420'	52'	28'	23	4	1907
296	Morse, Jay C. . . . .	6649	5087	Steel.	10300	532'	58'	31'	32	3	1907
299	Morse, Samuel F. B. .	4936	4301	Steel.	7500	456'	50'	29'	15	4	1898
176	Mueller . . . . .	699	578	Wood	850	172'	30'	12' 6"	4	1	1887
180	Mullen, Martin . . . .	4635	3471	Steel.	7000	416'	50'	28'	23	4	1904
8	Muncy . . . . .	3863	2946	Steel.		350'	46'	30'			1902
120	Munro, Josiah G. . . .	6971	5482	Steel.	10200	530'	56'	31'	31	3	1907
299	Murphy, Simon J. . . .	4869	3770	Steel.	7400	428'	51' 6"	28'	13	4	1900
31	Myron . . . . .	676	414	Wood	950	186'	32' 6"	13'	4		1888
<b>Barges</b>											
191	Magill, C. J. (Can.) . .	334		Wood.	600	141'	30' 5"	11' 8"			1863
299	Magna . . . . .	3259	3124	Steel.	5800	352'	44'	26'	11	3	1896
317	Magnetic . . . . .	1946	1592	Wood.	3100	264'	38' 6"	22' 4"	9	1	1882
299	Maia . . . . .	3804	3442	Steel.	6300	376'	48'	26'	12	3	1898
299	Maida . . . . .	3474	3210	Steel.	6300	376'	46'	26'	12	3	1898
255	Mamie (Can.) . . . . .	370		Wood.	700	129' 4"	28'	11' 2"			1897
159	Maitland, Alex. . . . .	3351	2998	Steel.	5700	366'	44'	26'	12	3	1902
353	Maize (Can.) . . . . .	268		Wood.	500	136'	26'	11'			1856
299	Manda . . . . .	3256	3121	Steel.	5500	352'	44'	26'	11	3	1896
299	Manila . . . . .	5039	4667	Steel.	7900	436'	50'	28' 6"	14	6	1899
299	Marcia . . . . .	2237	2132	Steel.	4000	302'	40'	25'	9	3	1895
299	Marsala . . . . .	5039	4667	Steel.	7900	436'	50'	28' 6"	14	6	1900
92	Matanzas . . . . .	2600	2525	Wood	4500	324'	45' 6"	21' 6"	11	1	1899
125	Marsh, Geo. A. (Can.) . . . . .	220		Wood.	375	135'	26' 6"	9'			1882
302	Marshall, Charlie (Can.) . . . . .	219	206	Wood.	400	122' 4"	26' 5"	9' 2"			1881
299	Martha . . . . .	3256	3121	Steel.	5500	352'	44'	26'	11	3	1896

DIMENSIONS OF LAKE VESSELS



GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel Length	Beam	Depth			
<b>Barges</b>											
156	Mathews, Jennie ..	332	316	Wood	500	138'	26'	12'			1874
219	Mead, J. H. ....	409	388	Wood	800	171'	29'	11'			1874
113	Melbourne (Can.) ..	510	484	Wood	900	168'8"	31' 6"	12' 6"	4	1	1880
255	Melrose (Can.) ....	740	740	Wood	1300	183'6"	35' 8"	14'			1895
172	Melvina . ....	270	257	Wood	550	133'5"	27' 9"	10' 2"	4	1	1863
276	Menominee . ....	450	433	Wood	900	166'2"	33' 1"	10' 9"			1883
91	Merrill, Julia B. (Can.) . ....	200	190	Wood	500	152'	27'	8' 5"	4	1	1872
38	Middlesex . ....	618	587	Wood	1100	186'	32' 6"	12' 4"	5	1	1881
303	Minch, Sophia (Can.)	538		Wood	1100	184'	33'	13' 8"	5	1	1873
74	Minerva . ....	222	211	Wood	400	125'6"	26' 7"	9' 8"			1862
142	Mingoe . ....	712	681	Wood	1300	198'6"	36'	12'	6	1	1893
282	Mitchell, Forster W.	513	405	Steel		142'	32'	11'			1909
31	Miztec . ....	777	738	Wood	1350	194'	34' 6"	14'	5		1890
31	Moore, W. K. ....	618	588	Wood	1200	180'	34' 3"	11' 8"			1894
4	Moravia . ....	1067	1014	Wood	2100	213'3"	39' 8"	16' 8"			1888
92	Montezuma . ....	2722	2710	Wood	4900	342'	46'	21' 6"	11	1	1903
303	Moran, David ....	491		Wood	750	162'	36'	9'			1901
43	Mowatt, James ....	523	497	Wood	950	166'4"	33' 1"	13'	5	1	1884
233	Mowatt, Oliver (Can.) . ....	244		Wood	500	131'2"	25' 9"	10' 6"			1873
74	Mueller, Minnie ....	199	189	Wood	400	120'	26' 4"	9' 7"			1867
303	Muir, A. (Can.) ....	330		Wood	500	138'	23' 9"	11' 4"			1874
255	Muskoka (Can.) ...	481	454	Wood	900	149'	26'	11' 6"			1872

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**Steamers**

56	Natironco (Can.) ...	1079	542	Steel	1600	226'	35'	17' 6"	10	1	1892
321	Navajo (Can.) ....	179		Wood		108'6"	21' 7"	8' 7"			1895
229	Neebing (Can.) ....	1879	1187	Steel	2900	248'	42'	25'	6	2	1903
56	Neepawah (Can.) ..	1799	1190	Steel	2800	244'	29'10"	21' 8"		3	1903
265	Neff, Chas. S. ....	992	800	Steel	1600	200'	38'	14'	5	1	1901
371	Neff, M. C. ....	276	210	Wood	350	137'	28'	11' 3"			1888
266	Neff, Sidney O. ....	435	338	Wood	500	149'6"	30'	10' 6"	3	1	1890
299	Neilson, James B. ..	2234	1571	Steel	3500	308'	42'	25'	8	1	1892
131	Neosha . ....	1982	1659	Wood	2700	266'	41'	22' 8"	8	1	1888
296	Neptune . ....	3717	2773	Steel	5600	346'	48'	28'	10	3	1900
266	Nessen, N. J. ....	440	319	Wood	500	149'	37'	11' 5"	3	1	1880
146	Nettleton, A. E. ....	6286	5006	Steel	9800	525'	55'	31'	31	3	1908
106	Nevada (Can.) ....	1257	775	Steel	2000	230'	34' 1"	21' 1"		4	1890
51	Newona (Can.) ....	2179	1401	Steel	3000	240'	43' 5"	25'		3	1909
34	Niagara . ....	1951	1483	Steel	3000	266'	42'	20'	7	1	1897
276	Nicaragua . ....	1201	911	Wood	2400	241'	37'	22' 8"			1894
170	Niko . ....	814	658	Wood	1150	189'	35'	13'	4	1	1889
161	Nipigon . ....	626	540	Wood	1150	191'	34'	13' 7"	4	1	1883
108	Norhilda (Can.) ....	1175	1056	Steel	2000	230'	36' 5"	18' 2"	4	2	1910
322	Normania . ....	4871	3705	Steel	7200	420'	52'	28'	12	3	1908
262	Normandie . ....	562	430	Wood	700	160'	35'	11' 6"			1894
263	North Lake . ....	3861	2941	Steel	5000	350'	46'	30'			1909
263	North Sea . ....	3921	3045	Steel	5000	350'	46'	30'			1909
263	North Star . ....	3849	2928	Steel	5000	350'	46'	30'			1909
263	North Wind . ....	2476	1885	Steel	3000	299'	40' 6"	24' 6"			1889
263	Northern King ....	2476	1885	Steel	3000	299'	40' 6"	24' 6"			1888
263	Northern Light ....	2476	1885	Steel	3000	299'	40' 6"	24' 6"			1888
263	Northern Queen ...	2476	1885	Steel	3000	299'	40' 6"	24' 6"			1888
263	Northern Wave ....	2476	1885	Steel	3000	299'	40' 6"	24' 6"			1889
255	Northmount (Can.)	1908	1172	Steel	3000	249'	43'	19' 5"	6	2	1907
322	Norton, David Z. ...	5667	4250	Steel	8500	480'	52'	30'	14	3	1906

DIMENSIONS OF LAKE VESSELS



GENERAL DIMENSIONS OF LAKE VESSELS—Continued

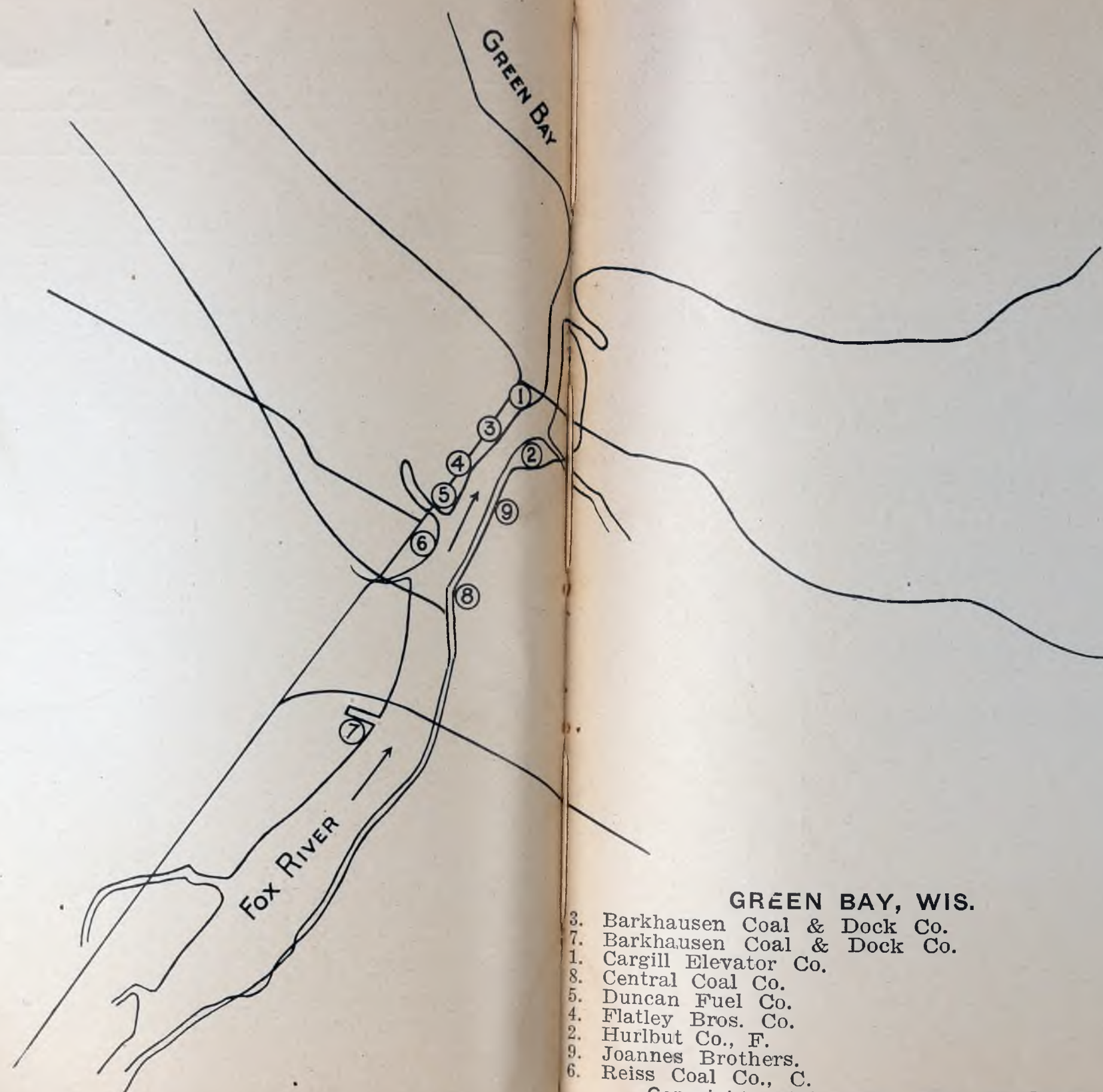
Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel L'gth	Beam	Depth			
<b>Steamers</b>											
407	Norwalk . . . . .	1007	881	Wood.	1500	209'	38' 6"	14'	5	1	1891
146	Norway . . . . .	6673	5314	Steel.	9700	504'	58'	30'	29	3	1910
146	Nottingham, Wm. . .	4234	3070	Steel.	6300	380'	50'	28'	11	4	1902
33	Nyanza . . . . .	2296	1870	Wood.	3200	280'	41' 5"	20'	8	3	1890
180	Nye, Harold B. . . . .	4310	3365	Steel.	6300	380'	50'	28'	20	4	1902
<b>Barges</b>											
255	Nadine (Can.) . . . . .	484		Wood.	900	166'	29' 8"	12' 6"			1899
299	Nasymith, James . .	3422	3162	Steel.	5700	366'	44'	26'	11	3	1896
157	Nau, Libbie . . . . .	236	198	Wood.	450	129'	26' 6"	10'			1867
384	Neil, Fannie . . . . .	451	428	Wood.	900	162' 6"	30' 1"	11' 6"	5	1	1870
257	New Dominion (Can.)	196		Wood.		117' 6"	25' 3"	9' 2"			1868
368	Newland, J. B. (Can.)	145		Wood.	300	111' 4"	26' 2"	7' 7"			1870
170	Norris, Alice B. . . . .	692	589	Wood.	1300	194'	32' 4"	13' 2"	6		1872
299	No. 137 . . . . .	2480	2367	Steel.	5500	352'	45'	26'	12	3	1896
<b>Steamers</b>											
259	Oades, John . . . . .	1454	1225	Wood.	1900	212'	36'	24'			1890.
374	Oceanica . . . . .	1490	1241	Wood.	2500	263'	37' 3"	21'			1881
296	Odanah . . . . .	4907	3588	Steel.	7300	420'	52'	28'	23	4	1907
331	Ogdensburg . . . . .	2329	1673	Steel.	3000	242'	43'	26' 6"			1906
297	Ogemaw . . . . .	594	325	Wood	650	162' 6"	30'	11' 4"	3	1	1861
131	Oglebay, E. W. . . . .	3666	3019	Steel.	5200	375'	45'	26'	10	3	1896
24	Ohl, Edwin N. . . . .	5141	3818	Steel.	7600	420'	54'	28'	23	4	1907
299	Olcott, Wm. J. . . . .	7568	5712	Steel.	11500	580'	58'	32'	36	3	1910
258	Olympia . . . . .	2065	1723	Wood.	2900	276'	41'	22' 4"	7	1	1889

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<b>Steamers</b>											
163	Omaha (Can.) . . . . .	1251	800	Wood.	1800	215'	34'	19'	6	1	1887
279	Omega . . . . .	2080	1217	Comp.	3300	306'	40'	21' 5"	9	2	1887
361	Onoko . . . . .	2164	1933	Iron..	3600	287'	38' 6"	24' 8"	8	2	1882
270	Ontario . . . . .	5494	4153	Steel.	8500	444'	56'	30'	25	3	1910
92	Orinoco . . . . .	2226	1928	Wood.	3400	295'	44'	23'	8	1	1898
147	Orion . . . . .	2283	1590	Wood.	3200	269'	42' 3"	17'	8	1	1901
51	Orr, Arthur . . . . .	2745	2117	Steel.	4500	335'	41'	24' 7"			1893
51	Orr, Geo. N. . . . .	2872	2280	Steel.	4500	326'	42'	26'			1896
92	Osborne, F. M. . . . .	4309	3377	Steel.	6300	380'	50'	28'	11	4	1902
397	Osborne, A. W. . . . .	4106	3067	Steel.	6400	400'	48'	28'	21	4	1896
367	Osborn, Frank C. . .	681	345	Steel.		155'	37'	10'			1912
357	Osler, E. B. (Can.)..	6786	4361	Steel.	9000	491'	56'	31'	14	5	1907
261	Otis, John . . . . .	301	254	Wood	450	148' 7"	27' 4"	10' 6"			1864
114	Owego . . . . .	2611	1776	Steel.	4000	326'	41'	25' 6"			1888
144	Owen, John . . . . .	2127	1609	Comp	3200	281'	41'	21'	7	1	1889
<b>Barges</b>											
365	Oak Leaf . . . . .	395	375	Wood.	750	160'	31' 2"	10' 7"			1866
13	Oneida . . . . .	201	190	Wood.	400	134' 1"	24' 3"	9' 2"			1857
242	Orton, Minnie E. . .	431	410	Wood.	800	172'	31'	11' 6"	5	1	1884
345	Our Son . . . . .	720	684	Wood.	1300	182' 1"	35' 1"	13'	5	1	1875
128	Owen, Geo. B. . . . .	744	706	Wood.	1500	196'	34'	13' 2"	6	1	1893
<b>Steamers</b>											
302	Packer, H. E. (Can.)	1183	810	Wood.	1500	225'	35'	19'			1882
170	Pahlow, Louis . . . . .	366	290	Wood.	500	155'	30'	11'	3		1882
180	Paine, Wm. A. . . . .	5798	4435	Steel.	8500	480'	52'	30'	28	3	1905
229	Paipoonge (Can.) . .	2517	1634	Steel.	3200	299'	40'	24' 6"	8	3	1888
2	Paliki (Can.) . . . . .	1578	993	Steel.	2200	240'	36'	17'	4	2	1889
299	Palmer, Wm. P. . . . .	7602	5746	Steel.	11500	580'	58'	32'	34	3	1910
62	Panay . . . . .	3811	2778	Steel.	5600	356'	50'	28'	10	3	1902

DIMENSIONS OF LAKE VESSELS





**GREEN BAY, WIS.**

- 3. Barkhausen Coal & Dock Co.
- 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.
- 9. Joannes Brothers.
- 6. Reiss Coal Co., C.

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GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel Length	Beam	Depth			
<b>Steamers</b>											
7	Panther . . . . .	1634	1140	Wood	2100	236'	36'	24'			1890
366	Parent, S. N. . . . .	1640	987	Steel.	2600	241'	41'	18'	6	3	1903
225	Parks, O. E. . . . .	392	289	Wood.	475	134'5"	28'	11'	3	1	1891
296	Pathfinder . . . . .	2424	1761	Steel.	4100	320'	42'	25'	9	1	1892
242	Pawnee . . . . .	639	475	Wood.	900	174'	32' 6"	13' 2"	4	1	1889
373	Peavey, Frank H. . . . .	5002	3871	Steel.	7000	430'	50'	28' 6"	13	6	1901
373	Peavey, Geo. W. . . . .	4997	3861	Steel.	7000	430'	50'	28' 6"	13	6	1901
56	Pellatt, H. M. (Can.) . . . . .	1591	1038	Steel.	1700	239'	37'	24'	4	2	1903
344	Penobscot . . . . .	4077	3530	Steel.	6700	454'	44' 6"	26' 7"	14	4	1895
291	Pentland . . . . .	827	617	Wood	1150	192'8"	35' 6"	12' 3"	5	1	1894
299	Perkins, Geo. W. . . . .	6406	4922	Steel.	10500	549'	56'	31'	34	2	1905
296	Perseus . . . . .	4978	3770	Steel.	8200	464'	50'	28'	14	4	1905
266	Peters . . . . .	634	561	Wood.	1200	182'8"	32'	13' 3"	5	1	1883
156	Phenix . . . . .	1294	1035	Wood.	2200	240'	39' 6"	18'	6	1	1894
373	Philbin, D. M. . . . .	6272	4826	Steel.	9500	504'	54'	30'	30	3	1905
299	Phipps, Henry . . . . .	7240	5450	Steel.	11500	580'	58'	32'	36	3	1907
177	Plankinton, John . . . . .	1821	1461	Wood	2700	267'	41'	23'	7	1	1889
56	Plummer, J. H. (Can.) . . . . .	1582	992	Steel.	1800	246'	37'	24'	5	2	1903
299	Poe, Gen. Orlander M. . . . .	5619	4144	Steel.	7800	470'	50'	29'	15	4	1900
24	Pollock, W. G. . . . .	4872	3585	Steel.	7300	420'	52'	28'	23	4	1906
180	Polynesia . . . . .	3640	2596	Steel.	5700	376'	46'	26'	11	3	1897
79	Pontiac . . . . .	2298	1788	Steel.	3500	300'	40'	24'	8	3	1889
344	Pope, E. C. . . . .	2637	2064	Steel.	4100	317'	41'	24'	9	1	1891

<b>Steamers</b>											
238	Prentice, J. H. . . . .	535	398	Wood.	850	167'6"	32'	12' 2"	4	1	1885
79	Presque Isle . . . . .	4578	3570	Steel.	6600	406'	50'	28'	12	4	1898
299	Princeton . . . . .	5125	3820	Steel.	7500	454'	50'	28' 6"	14	6	1900
127	Pt. Colborne (Can.) . . . . .	1729	1306	Steel.	3000	250'	42' 5"	17' 8"		3	1909
127	Pt. Dalhousie (Can.) . . . . .	1744	1129	Steel.	3000	250'	42' 4"	19'		3	1914
52	Pueblo (Can.) . . . . .	1493	905	Wood.	2000	228'	36' 3"	19'		1	1891
<b>Barges</b>											
92	Paisley . . . . .	1046	994	Wood.	2100	211'	35'	16' 6"		1	1893
31	Page, Marion W. . . . .	762	712	Wood.	1200	193'	34'	13' 8"	6	1	1876
193	Pellatt, J. H. . . . .	346	296	Steel.	1500	179'	35'	15'			1905
4	Pennington, B. L. . . . .	1142	1085	Wood.	2200	239'	38' 2"	14' 6"			1889
31	Peshtigo . . . . .	633	601	Wood.	1000	201'	34' 4"	12'	6	1	1889
132	Progress . . . . .	828	844	Wood.	1800	255'	37'	21'			1880
<b>Steamers</b>											
299	Queen City . . . . .	3979	3198	Steel.	5800	400'	48'	28'	12	1	1896
108	Querida (Can.) . . . . .	1175		Steel.	2000	230'	36' 5"	18' 2"	4	2	1909
<b>Barges</b>											
255	Quebec (Can.) . . . . .	1016	989	Steel.	1900	206'2"	40'	14' 6"	6		1901
74	Quickstep . . . . .	282	268	Wood.	500	140'8"	25' 3"	10' 2"			1874
<b>Steamers</b>											
176	Ralph, P. J. . . . .	964	658	Wood.	1200	211'5"	37'	14'	5	1	1889
37	Ranney, R. P. . . . .	1627	1233	Wood.	3000	247'6"	36' 3"	20' 3"		1	1881
373	Ranney, Rufus P. . . . .	4797	3505	Steel.	7300	420'	52'	28'	12	4	1908
299	Ream, Norman B. . . . .	7053	5444	Steel.	11500	580'	58'	32'	36	3	1906
193	Recor, E. P. . . . .	368	232	Wood	600	123'	30'	9' 9"			1902
296	Reed, James H. . . . .	5598	4125	Steel.	7700	448'	52'	28'	25	6	1903
397	Rees, W. D. . . . .	3760	2992	Steel.	5800	396'	45'	28'	12	4	1896
254	Reis, Wm. E. . . . .	4426	2823	Steel.	6800	416'	50'	28'	22	4	1900



GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel L'gth	Beam	Depth			
<b>Steamers</b>											
400	Reiss, John P. ....	6432	4963	Steel.	9500	504'	54'	30'	30	4	1910
400	Reiss, Peter .....	5923	4217	Steel.	9500	504'	54'	30'	30	4	1910
246	Reliance . . . . .	480		Wood.	600	145'	29'	9' 7"			1881
319	Rend, W. P. ....	2073	1697	Wood.	3000	287'	40'	21'	8	1	1889
183	Renown . . . . .	4154	2098	Steel.	Oil	373'	52'	25'			1912
299	Rensselaer . . . . .	5124	3827	Steel.	7800	454'	50'	28' 6"	14	2	1900
56	Renvoyle (Can.) ...	1830	1176	Steel.	3400	250'	42' 7"	18' 6"	6	3	1910
159	Republic . . . . .	2991	2052	Steel.	4400	364'	40'	24' 6"	10	4	1890
24	Rhodes, Joshua W. .	4872	3586	Steel.	7300	420'	52'	28'	23	4	1906
226	Rhodes, R. R. (Can.)	1598	957	Wood.	2400	246'	40'	21'	6	1	1887
263	Rhodes, Wm. Castle	2176	1340	Steel.	3000	242'	42'	26' 6"			1900
114	Richardson, G. A. ..	2237	1790	Steel.	3000	266'	41'	25' 6"			1893
299	Roberts, Percival, Jr	7593	5862	Steel.	11700	580'	58'	32'	35	3	1913
24	Robbins, Francis L. .	4222	3036	Steel.	6200	380'	50'	28'	20	3	1905
397	Robbins, S. H. ....	4909	3617	Steel.	7300	444'	50'	28' 6"	13	4	1899
156	Robinson, Lucius W	1655	1004	Steel.	3000	244'	43'	21'	6	2	1912
398	Rock Ferry (Can.) .	1398	738	Wood.	2000	235' 3"	37' 2"	18' 7"	6	1	1882
389	Rochester . . . . .	4571	3855	Steel.		382' 6"	50'	30'			1907
299	Rockefeller, Frank .	2759	2013	Steel.	5200	366'	45'	26'	10	3	1896
299	Rogers, Henry H. ..	7053	5444	Steel.	11500	580'	58'	32'	36	3	1906
120	Rogers, Wm. A. ....	6524	5101	Steel.	10000	525'	55'	31'	32	3	1905
303	Rolph, John (Can.) .	211	212	Wood	500	136' 6"	37' 8"	10' 3"			1883
299	Roman . . . . .	2348	1875	Steel.	3300	296'	40'	24' 6"	8	3	1891
28	Ross, Myrtle M. ....	156	108	Wood.	300	114'	20'	8'			1890
56	Rosedale (Can.) ...	1507	977	Steel.	2200	246'	35'	21'	4		1888

<b>Steamers</b>											
255	Rosemount (Can.) .	1580	989	Steel.	2600	245'	41'	21' 9"	4	4	1896
322	Roumania . . . . .	1837	1441	Wood.	2600	273'	39' 5"	22' 6"	7	1	1887
132	Rudolph, Wm. ....	267	209	Wood.	500	145'	23' 6"	9' 3"			1880
156	Rugee, John . . . . .	1216	950	Wood.	1700	216'	35'	20'	5	1	1888
394	Runnells, H. E. ....	889	629	Wood.	1200	182'	35'	13'	4	1	1893
331	Rutland . . . . .	2321	1668	Steel.	2800	242'	43'	26'			1906
<b>Barges</b>											
85	Redington, Nellie ..	816	775	Wood.	1400	205' 9"	33' 8"	13' 9"			1872
170	Redfern, C. E. ....	680	646	Wood.	1300	181'	35'	13' 1"	6	1	1890
56	Reed, Isabella (Can.) . . . . .	480		Wood.	1000	186'	31' 5"	11'			1881
363	Resumption . . . . .	293	278	Wood.	600	143' 4"	29'	10' 3"			1879
56	Rickarton (Can.) ...			Wood.	2200	220'	36' 2"	22'	7	1	1890
56	Rob Roy (Can.) ....	341	340	Wood.	650	144'	31'	10' 3"			1897
299	Roebing, John A. ..	4693	4447	Steel	7900	436'	50'	28' 6"	15	4	1898
<b>Steamers</b>											
270	St. Clair . . . . .	6494	4153	Steel.	8500	444'	56'	30'	25	3	1910
295	St. Joseph . . . . .	304	171	Wood.	625	146'	29'	11'			1867
63	St. Louis . . . . .	985	795	Wood.	1200	193'	31' 9"	11' 7"			1864
263	St. Paul . . . . .	2029	1221	Steel.	2800	238'	42'	26'			1897
377	Sachem . . . . .	739	542	Wood.	Sand	187'	34'	14' 8"	4	1	1889
92	Sacramento . . . . .	2380	1903	Wood.	3500	308'	43'	22' 6"	8	1	1895
216	Saranac . . . . .	2669	1939	Steel.		290'	41'	26' 6"			1890
56	Sarnian (Can.) ....	2656	1710	Steel.	4700	324'	42'	26' 6"	9	3	1895
216	Sarnor (Can.) ....	1319	1152	Wood.	1900	219'	36'	17'	5	1	1888
56	Saskatoon (Can.) ..	1798	1148	Steel.	2500	250' 2"	42' 8"	18' 6"	6	3	1910
92	Saunders, E. N. ....	4305	3366	Steel.	6300	380'	50'	28'	11	4	1902
159	Saunders, E. N., Jr..	6657	5140	Steel.	9700	525'	55'	31'	32	3	1906
196	Saunders, W. B. ....	103	45	Steel.		85'	21'	12'			1905
352	Sawyer, Philetus ..	449	308	Wood.	650	152'	31' 6"	9' 6"	3	1	1884



GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel L'gth	Beam	Depth			
<b>Steamers</b>											
170	Sawyer, Wm. H. ...	746	581	Wood.	1100	201'	37'	13'	4	1	1890
299	Saxon . . . . .	2348	1875	Steel.	3300	296'	40'	24' 6"	8	3	1890
373	Saxona . . . . .	4710	3441	Steel.	6800	416'	50'	28'	12	4	1903
299	Schiller, Wm. B. ...	7521	5819	Steel.	11500	580'	58'	32'	36	3	1910
378	Schlesinger, Ferd ..	2607	2081	Wood.	3500	305'	43' 6"	24' 6"	9	1	1891
277	Schoolcraft . . . . .	745	595	Wood.	1000	180'	34'	15'	4	1	1884
346	Schoonmaker, Col. J. M. . . . .	8663	6650	Steel.	12200	590'	64'	33'	35	3	1912
281	Scotsman (Can.) ...	265	114	Wood.	300	108'	23' 6"	7'			1903
56	Scottish Hero (Can.)	2202	1386	Steel.	3800	297'	40'	24'	4	4	1895
8	Schuykill . . . . .	2205	1819	Steel.		275'	40'	26'			1892
238	Scranton . . . . .	2015	1595	Steel.	3000	260'	39'	24' 6"			1888
254	Scranton, Walter ..	4426	3061	Steel.	6800	416'	50'	28'	22	4	1900
249	Seguin (Can.) . . . . .	1141	771	Steel.	1200	207'	34' 2"	13'	5	2	1890
254	Sellwood, Joseph ..	6741	5269	Steel.	10000	525'	55'	31'	31	3	1906
241	Senator . . . . .	4048	3178	Steel.	6000	410'	45' 6"	28'	13	4	1893
398	Senator Derbyshire (Can.) . . . . .	1246	987	Wood.	2200	220'	40'	18'	6		1897
276	Seneca . . . . .	2669	1939	Steel.		290'	41'	24'			1889
71	Seymour, R. A., Jr. .	131	103	Wood.	275	110'	23'	8'			1882
180	Shaughnessy, Sir Thomas . . . . .	6276	4665	Steel.	8500	480'	52'	30'	28	3	1906
312	Shaw, Chas. H. (Can.) . . . . .	1489		Wood.		240'	42'	25'			1889
299	Shaw, Howard L. ..	4901	3802	Steel.	7400	428'	51' 6"	28'	13	4	1900

<b>Steamers</b>											
159	Shaw, Quincy A. ...	6336	5013	Steel.	9500	504'	54'	30'	30	4	1911
79	Sheadle, J. H. . . . .	6924	5476	Steel.	10200	530'	56'	31'	31	3	1906
92	Shenandoah . . . . .	2251	1880	Wood.	3500	308'	43'	22' 6"	8	1	1894
346	Shenango . . . . .	8047	6498	Steel.	11500	585'	58'	32'	35	3	1909
296	Sherwin, John . . . . .	7159	5744	Steel.	9600	514'	54'	31'	16	4	1906
261	Shores, E. A., Jr. ...	520	396	Wood	750	176'	35'	11' 6"			1892
6	Shrigley, James H. .	459	364	Wood	700	171' 6"	31'	13'	3	1	1881
203	Sicken, M. . . . .	212	168	Wood.	350	128' 10"	26'	10'	3	1	1884
299	Siemens, Sir Wm. ..	4344	3293	Steel.	6000	412'	48'	28'	12	4	1896
373	Sierra . . . . .	4846	4287	Steel.	7500	438'	52'	28'	13	3	1906
255	Simla (Can.) . . . . .	1196	730	Wood	1650	225' 6"	34' 8"	15'	6	1	1903
373	Sinaloa . . . . .	4539	3503	Steel.	6800	416'	50'	28'	23	4	1903
153	Sinbad (Can.) . . . . .	897	539	Iron..		216' 2"	31' 2"	16' 2"			1883
296	Sirius . . . . .	4470	3143	Steel.	6900	416'	50'	28'	12	4	1903
146	Smith, B. Lyman ..	4271	3017	Steel.	6300	380'	50'	28'	11	4	1903
392	Smith, Edward . . . . .	700	523	Wood	1000	194'	33'	16' 6"	4	1	1883
146	Smith, Hurlburt W..	4662	3415	Steel.	6800	414'	50'	28'	12	4	1903
146	Smith, L. C. . . . .	4702	3418	Steel.	6800	414'	50'	28'	12	4	1902
146	Smith, Lyman C. ...	6200	4916	Steel.	10000	525'	55'	31'	31	3	1905
146	Smith, Monroe C. ..	4281	3016	Steel.	6300	380'	50'	28'	11	4	1903
146	Smith, Wilbert L. ..	4319	3039	Steel.	6300	380'	50'	28'	11	4	1903
346	Snyder, Wm. P. ...	6939	5492	Steel.	10200	530'	56'	31'	31	3	1906
346	Snyder, W. P., Jr. ..	8603	6650	Steel.	12200	590'	64'	33'	35	3	1912
373	Sonoma . . . . .	4539	3503	Steel.	6800	416'	50'	28'	23	4	1903
373	Sonora . . . . .	3914	2731	Steel.	5100	346'	48'	28'	10	5	1902
149	Soper, Albert . . . . .	349	268	Wood	450	143' 6"	28' 3"	10' 6"			1881
353	Sowards (Can.) ...	191	148	Wood.	400	119'	26'	9'	2		1886
164	Spalding, Jesse . . . . .	1043	856	Steel.	2000	220'	40'	16'	5	1	1895
317	Spokane . . . . .	2356	1974	Steel.	3400	310'	38'	24'			1886
180	Squire, F. B. . . . .	4582	3694	Steel.	6800	410'	50'	28'	12	4	1903
159	Stackhouse, Powell .	6171	4919	Steel.	9500	504'	54'	30'	30	6	1905



GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel L'gth	Beam	Depth			
<b>Steamers</b>											
56	Stadacona . . . . .	6014	4654	Steel.	9000	480'	56'	30'	28	6	1909
286	Stafford, W. R. ....	686	398	Wood.	900	184' 10"	34' 3"	12' 2"	4	1	1886
226	Stanstead (Can.) ...	1549	970	Wood.	1500	256'	36' 6"	19' 3'			1881
180	Stanton, John . . . . .	6129	4668	Steel.	9500	504'	54'	30'	30	3	1905
173	Starke, C. H. . . . .	317	266	Wood.	500	149' 6"	30'	9' 7"	3	1	1881
362	Steinbrenner, Henry	4719	3955	Steel.	6800	420'	50'	28'	13	4	1901
92	Steel King . . . . .	4308	3366	Steel.	6300	380'	50'	28'	11	4	1902
244	Steelton (Can.) ....	1750	1131	Steel.	2800	250'	42' 6"	18' 6"	6	3	1914
299	Stephenson, Geo. ..	4563	3502	Steel.	5800	408'	48'	28'	12	4	1896
363	Stephenson, I. Wat- son . . . . .	639	501	Wood.	900	172'	35'	11' 6"			1895
336	Stephenson, S. M. ..	546	426	Wood.	750	166'	33'	12'	4		1880
271	Sterling, John R. ..	1302	1157	Wood.		223'	34'	22'			1871
21	Stewart, A. E. . . . .	3943	3049	Steel.	5700	356'	50'	28'	10	3	1902
296	Stone, Amasa . . . . .	6282	4930	Steel.	10000	525'	55'	31'	31	3	1905
255	Storemount (Can.) .	1957	1231	Steel.	2800	249' 7"	42' 4"	23'	4	2	1907
56	Strathcona (Can.) ..	1881	1465	Steel.	3200	245'	42' 6"	23' 8"		2	1900
180	Sullivan, J. J. . . . .	7077	5541	Steel.	10200	532'	56'	31'	32	3	1907
373	Sultana . . . . .	3630	2731	Steel.	5100	346'	48'	28'	10	5	1902
299	Superior City . . . . .	4795	3693	Steel.	6900	430'	50'	28' 6"	13	6	1898
389	Superior . . . . .	4544	3845	Steel.	5000	382'	50'	30'			1905
299	Superior . . . . .	251	167	Wood.		98'	30'	19'			1890
8	Susquehanna . . . . .	2781	2347	Steel.	3500	303'	40'	26' 6"			1886

THE SHIP MASTERS' ASSOCIATION

<b>Barges</b>											
283	St. Louis (Can.) ...	334		Wood.	500	127' 7"	26' 2"	11' 9"			1877
296	Sagamore . . . . .	3251	2926	Steel.	5500	366'	44'	26'	12	3	1898
288	Sands, Isabella (Can.) . . . . .	230	231	Wood.		134'	29'	10' 8"			1874
33	Santiago . . . . .	2600	2525	Wood.	4400	324'	45' 6"	21' 6"	11	3	1899
394	Scotia . . . . .	903	858	Wood.	1500	210' 9"	34' 6"	13' 4"	7	1	1873
255	Selkirk (Can.) . . . . .	719		Wood.	1200	183'	34' 5"	14' 5"			1894
239	Sephie (Can.) . . . . .	261		Wood.	500	136'	27' 6"	10' 1"			1889
156	Sherman, W. A. . . . .	519	493	Wood.	900	163'	33'	12'			1882
335	Simpson, Lucia A. ..	227	215	Wood.	425	127'	28'	8' 7"			1875
74	Skeele, E. E. . . . .	199	189	Wood.	375	122' 9"	26' 9"	9'			1856
303	Sligo (Can.) . . . . .	284		Wood.	500	137'	23'	11' 8"	4		1874
299	Smeaton, John . . . . .	5049	4725	Steel.	7900	446'	50'	29' 6"	15	4	1899
338	Stafford . . . . .	199	189	Wood.	375	112'	25' 6"	9' 6"			1868
274	Stanley, H. M. (Can.) . . . . .	305		Wood.	600	132'	25' 6"	11' 7"			1873
276	Stephenson, Isaac .	461	438	Wood.	850	163' 3"	32' 1"	11' 1"			1879
390	Stewart, A. . . . .	533	511	Wood.	1000	172'	32' 4"	12' 1"			1889
130	Suffel, W. J. (Can.)	238		Wood.	450	120'	26'	9' 8"			1874
223	Sweetheart . . . . .	538	512	Wood.	1000	175' 4"	32' 6"	13' 4"	5	1	1867
<b>Steamers</b>											
56	Tagona (Can.) . . . . .	2003	1299	Steel.	2900	249' 7"	46' 7"	23' 6"		3	1908
254	Taylor, Moses . . . . .	4772	3401	Steel.	6800	416'	50'	28'	12	4	1902
316	Tempest . . . . .	412	341	Wood.	550	159'	30'	12' 6"	3	1	1872
296	Taurus . . . . .	4470	3143	Steel.	6900	414'	50'	28'	12	4	1903
2	Taylor, J. F. (Can.)	3428	2029	Steel.	5600	346'	48'	28'	10	3	1901
24	Thompson, Alexis W. . . . .	6436	4670	Steel.	9500	504'	55'	30'	30	4	1908
146	Thompson, Smith ..	4786	4227	Steel.	7600	438'	52'	28'	13	3	1907
114	Tioga . . . . .	2320	1684	Iron..	3200	285'	39'	17'			1885
321	Toiler (Can.) . . . . .	1659	1334	Steel.	2800	250'	42' 6"	19'		3	1911

DIMENSIONS OF LAKE VESSELS



GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel L'gth	Beam	Depth			
<b>Steamers</b>											
136	Toltec . . . . .	767	621	Wood	1200	191' 3"	32' 6"	13' 8"	4	1	1889
39	Tomlinson, G. A. . .	6361	4862	Steel.	9500	504'	54'	30'	30	4	1909
211	Topeka . . . . .	1376	1111	Wood.	2100	228'	36'	20'			1889
159	Townsend, E. Y. . . .	7438	5673	Steel.	11500	580'	58'	32'	18	3	1906
299	Trimble, Richard . .	7607	5868	Steel.	12000	580'	58'	32'	35	3	1913
389	Troy . . . . .	3655	2966	Steel.		398'	45' 6"	28'			1898
39	Truesdale, Wm. H. . .	5057	3764	Steel.	7400	432'	52'	28'	24	4	1908
159	Turner, J. J. . . . .	6832	5376	Steel.	10200	532'	56'	31'	32	3	1906
56	Turrett Cape (Can.)	1827	1142	Steel.	3200	253'	44'	19' 4"	3	3	1895
56	Turrett Court (Can.)	1881	1197	Steel.	3200	253'	44'	19' 7"	2	2	1896
56	Turrett Crown (Can.)	1827	1142	Steel.	3200	253'	44' 4"	19' 4"	3	3	1895
216	Tuscarora . . . . .	2386	1679	Steel.	3200	291'	40'	22'			1890
<b>Barges</b>											
22	Taber, Horace (Can.)	262		Wood	500	138' 6"	26' 6"	9' 6"			1867
70	Taylor, J. V. . . . .	199	189	Wood	400	125'	26' 2"	8' 9"			1867
214	Teutonia . . . . .	594	564	Wood.	1200	177'	32'	12' 6"	10		1881
159	Thompson, A. W. . .	2279	2125	Steel.	4300	300'	42'	24'	9	3	1901
299	Thomas, Sidney G. . .	3200	2912	Steel.	5700	366'	44'	26'	11	3	1897
111	Three Brothers . . . .	349	332	Wood	650	136' 6"	25' 9"	12'			1873
255	Thrush (Can.) . . . .	584		Wood.	1100	181'	34' 4"	11' 7"			1890
391	Thunder Bay (Can.)	2144		Steel.	4100	302'	40'	25'	9	3	1895
170	Tilden, S. J. . . . .	613	582	Wood.	1000	172'	32'	13' 4"			1869
307	Tokio . . . . .	1385	1316	Wood.	2500	222' 2"	38'	19'	6	1	1889
253	Transfer . . . . .	732		Wood.	1500	200'	33' 9"	13' 7"	7	1	1872

<b>Barges</b>											
253	Transport . . . . .	489	460	Wood.	950	168'	31'	12' 6"	5	1	1873
388	Troy . . . . .	486	462	Wood.	850	187' 4"	30' 8"	10' 2"	6	1	1872
170	Tuxberry, A. C. . . . .	679	645	Wood.	1300	181'	35'	13'	6	1	1890
276	Twinsisters . . . . .	806	747	Wood.	1600	204' 2"	35'	14'			1889
131	Tyrone . . . . .	2117	1862	Steel.	4200	301'	41'	24'	9	3	1896
<b>Steamers</b>											
159	Uhrig, Edward A. . .	6611	5049	Steel.	10200	532'	56'	31'	32	3	1907
165	Umbria . . . . .	4803	3519	Steel	6800	420'	50'	28'	12	4	1904
114	Underwood, F. D. . .	3314	2499	Steel		319'	44'	27' 3"			1896
258	United Lumberman (Can.) . . . . .	399	259	Wood	500	139'	31' 6"	11' 7"			1884
198	Upson, Andrew S. . .	4442	3120	Steel.	6300	380'	52'	29'	19	3	1909
397	Upson, J. E. . . . .	6309	4853	Steel.	9500	504'	54'	30'	30	3	1908
389	Utica . . . . .	3533	2658	Steel.	4000	325'	44'	30'			1904
275	Utley, E. H. . . . .	6287	4861	Steel	9500	504'	54'	30'	30	4	1910
<b>Barges</b>											
273	Unadilla . . . . .	396	376	Wood	850	153' 6"	30' 6"	13' 4"			1862
255	Ungava (Can.) . . . .	1226	1226	Steel.	2100	200'	41'	19'	6		1906
238	Uranus . . . . .	524	498	Wood.	1000	169'	30'	12' 9"	5	1	1873
<b>Steamers</b>											
369	Van Allen, D. R. (Can.) . . . . .	318	216	Wood.	450	136'	26'	10'			1874
205	Valcartier (Can.) . .	3755	2250	Steel.	5600	354'	48'	28'	10	4	1903
299	Van Hise, Chas. R. . .	5117	3673	Steel.	7400	446'	50'	29' 6"	14	4	1900
265	Venezuela . . . . .	2125	1733	Wood.	2800	263'	42' 6"	23'	7	1	1897
296	Venus . . . . .	3719	2766	Steel.	5600	346'	48'	28'	10	3	1901
296	Verona . . . . .	6186	4765	Steel.	8500	480'	52'	30'	28	4	1907
355	Veronica . . . . .	1093	888	Wood.	1400	202'	34' 6"	19'			1886



GENERAL DIMENSIONS OF LAKE VESSELS—Continued

Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel Length	Beam	Depth			
<b>Steamers</b>											
296	Victory . . . . .	4527	3707	Steel.	7000	452'	48'	27'	14	5	1895
282	Viking . . . . .	1117	943	Steel.	1800	217'	37'	15'	5	1	1889
127	Volunteer . . . . .	2316	1506	Wood.	2900	270'	41' 6"	22'	7	1	1888
19	Vulcan . . . . .	1759	1366	Steel.	2900	260'	38'	23'	7	3	1889
<b>Barges</b>											
255	Valencia (Can.) . . . . .	543		Wood.	1000	178'	30' 8"	13' 2"			1888
	Vinland . . . . .	965		Wood.	1500	216'	36'	13' 4"			1896
<b>Steamers</b>											
90	Waccamaw . . . . .	1359	920	Steel.	2200	243'	40'	18' 3"	6	1	1900
322	Wade, J. H. . . . .	1863	1502	Steel.	3000	266'	38'	23'	7	1	1890
384	Waffle, T. J. (Can.) . . . . .	202	104	Wood.		105'	22' 5"	8'			1914
56	Wahcondah (Can.) . . . . .	1554	996	Steel.	2600	229'	36' 9"				1903
245	Wainwright . . . . .	4937	3714	Steel.	7200	420'	52'	29'	12	4	1908
403	Waldo, L. C. . . . .	4446	3519	Steel.	7000	452'	48'	28'	14	4	1896
387	Wallace, E. L. . . . .	4956	3678	Steel.	7200	420'	52'	28'	12	3	1906
296	Wallace, James C. . . . .	6684	5403	Steel.	10300	532'	56'	31'	32	3	1905
366	Wallace, Robert . . . . .	1640	944	Steel.	2600	241'	41'	18'	6	3	1903
131	Wallula . . . . .	1924	1415	Wood.	2700	260'	40'	23' 6"	7	1	1882
180	Walsh, James P. . . . .	5630	4772	Steel.	8500	480'	52'	30'	28	4	1905
24	Walters, Thomas . . . . .	7518	5787	Steel.	11500	580'	58'	32'	36	3	1911
146	Warner, Chas. M. . . . .	3812	2733	Steel.	5700	370'	48'	28'	11	4	1902
159	Warner, Randolph S. . . . .	3062	2128	Steel.	4300	318'	42'	26' 6"	9	3	1901

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<b>Steamers</b>											
288	Warren, Homer (Can.) . . . . .	447	304	Wood.	500	176' 6"	29' 6"	11' 8"	4	1	1863
373	Watson, C. W. . . . .	4306	3364	Steel.	6300	380'	50'	28'	11	4	1902
299	Watt, James . . . . .	4090	3105	Steel.	5800	405'	48'	28'	12	4	1896
373	Wells, Frederick B. . . . .	4897	3630	Steel.	7000	430'	50'	28' 6"	13	6	1901
314	Wente, R. C. . . . .	335	267	Wood.	450	141'	30'	10' 6"			1888
188	Westcott, J. W. . . . .	522	451	Wood.	700	169'	31'	12'			1883
155	Westerian (Can.) . . . . .	988	580	W.&S.	1100	210'	32'	15' 2"			1871
275	Western Star . . . . .	4764	3593	Steel.	7000	416'	50'	29'	12	4	1903
255	Westmount (Can.) . . . . .	1875	1171	Steel.	2800	248' 7"	42'	26'	5	2	1903
120	Weston, Charles . . . . .	6996	5511	Steel.	10500	549'	56'	31'	34	3	1906
226	Whitaker, Byron (Can.) . . . . .	1539	959	Wood.	2300	220'	38'	21'	6		1890
254	White, Pendennis . . . . .	4382	3205	Steel.	7000	420'	50'	28'	23	3	1906
79	White, Peter . . . . .	6184	4931	Steel.	9500	504'	54'	30'	30	3	1905
218	White, W. F. . . . .			Steel.	10000	530'	60'	31'	30	3	1915
34	Wickwire, Theo. H. . . . .	5141	3894	Steel.	8300	444'	56'	28'	13	3	1909
34	Wickwire, Theo. H., Jr. . . . .	6077	4927	Steel.	9700	504'	56'	30'	30	4	1910
299	Widener, Peter A. B. . . . .	7053	5444	Steel.	11500	580'	58'	32'	36	3	1906
24	Widlar, Francis . . . . .	4682	3368	Steel.	7000	416'	50'	28'	12	4	1904
131	Williams, Geo. F. . . . .	1888	1506	Wood.	3100	280'	41'	22'	7	1	1889
146	Wilkinson, H. S. . . . .	3860	3057	Steel.	5700	370'	48'	28'	11	4	1902
216	Wilkesbarre . . . . .	4153	3311	Steel.	5200	381' 7"	50' 5"	28'			1900
346	Wilpen . . . . .	7612	5851	Steel.	11000	554'	58'	32'	33	4	1907
399	Wilson, Mathew . . . . .	322	243	Wood	450	141' 4"	27' 9"	10' 8"			1888
397	Wilson, Capt. Thomas . . . . .	4719	3959	Steel.	7000	416'	50'	28'	13	4	1900
255	Windsor (Can.) . . . . .	1962	1276	Wood.	2500	242'	41'	20'	8		1892
12	Winnipeg . . . . .	1108	874	Wood.	1500	252' 5"	35'	15' 3"	7	1	1878
56	Winona (Can.) . . . . .	2085	1327	Steel.	3300	252'	43' 4"	23' 9"	6	2	1906

DIMENSIONS OF LAKE VESSELS



GENERAL DIMENSIONS OF LAKE VESSELS—Continued

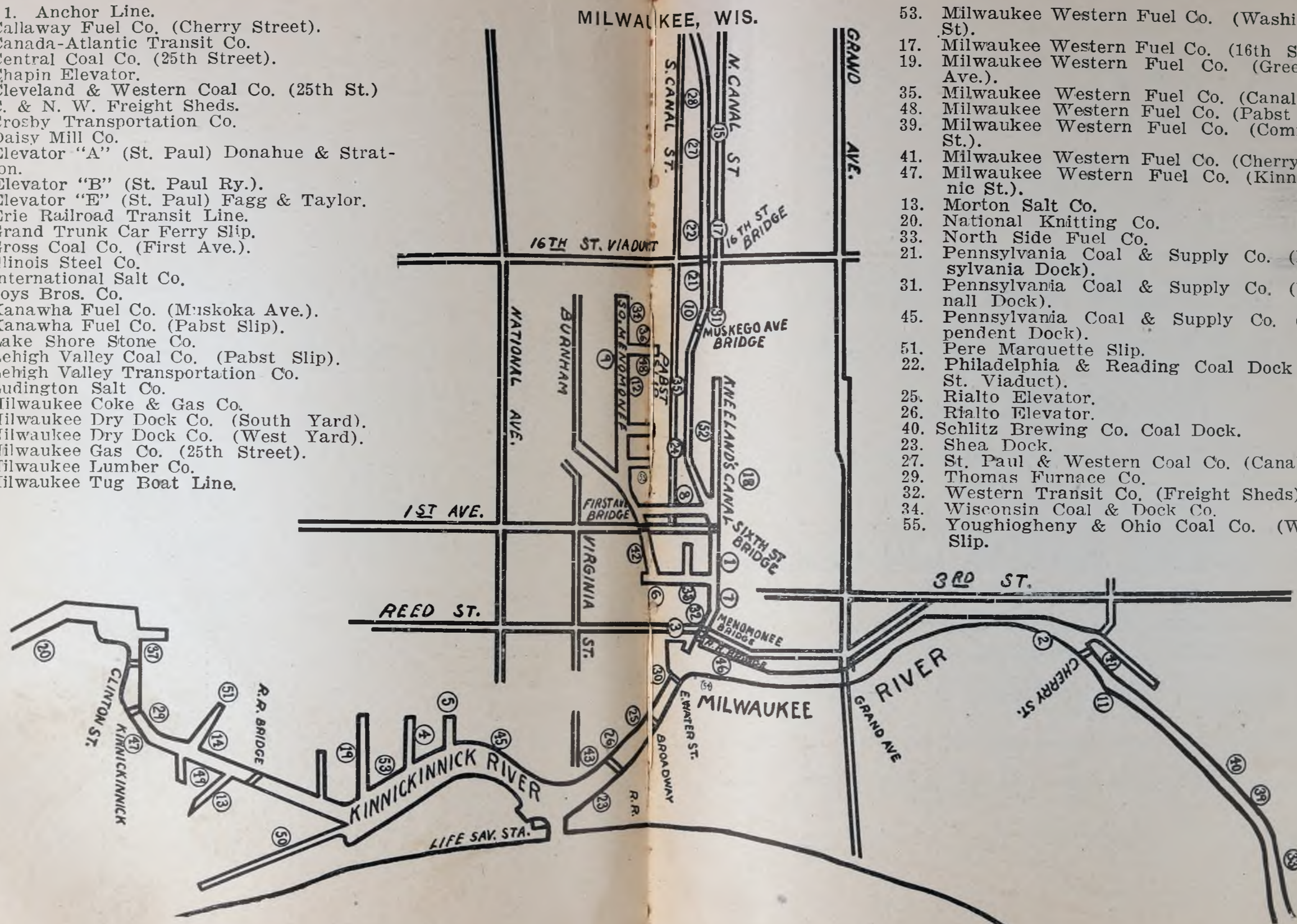
Fleet No.	NAME	Gross Tonnage	Net Tonnage	Built of	Carrying Capacity	DIMENSIONS			No. H'tchs	No. Comp.	Year Built
						Keel L'gth	Beam	Depth			
<b>Steamers</b>											
165	Wisconsin . . . . .	4858	3707	Steel.	6800	420'	50'	28'	12	4	1904
8	Wissahicken . . . . .	4062	3104	Steel.	4700	350'	46'	30'			1907
290	Wolf, Wm. H. (Old)	2265	1791	Wood.	3400	285'	42'	21'	7	1	1887
366	Wolf, Wm. H. . . . .	6281	4767	Steel.	9500	504'	54'	30'	30	4	1908
296	Wolvin, Augustus B.	6585	5311	Steel.	10500	540'	56'	32'	33	1	1904
159	Wood, Joseph . . . . .	6360	4922	Steel.	9500	504'	54'	30'	30	4	1910
334	Wotan . . . . .	886	712	Wood	1000	191' 6"	36' 6"	13' 6"	4	1	1893
198	Wright, Alfred P. . .	2207	1899	Wood	3200	286'	41' 6"	23' 8"	8	1	1888
405	Wyandotte . . . . .	2450	1541	Steel.	2900	346'	45'	24'	18	3	1908
34	Wyoming . . . . .	1488	934	Wood	2200	241'	40'	14' 6"			1887
<b>Barges</b>											
5	Wall, Charles . . . . .	629	597	Wood	950	194' 6"	34'	13' 2"	6	1	1866
328	Warmington, G. H. (Can.) . . . . .	559		Wood.	950	170'	31' 6"	12' 6"			1872
159	Warriner, S. D. . . .	2279	2125	Steel.	4300	300'	42'	24'	9	3	1901
123	Weaver, Jennie . . . .	88	83	Wood.	150	97' 6"	22' 6"	7'			1882
83	White Oak (Can.) . .	180		Wood	350	111'	24' 8"	9' 5"			1867
288	White & Friant (Can.) . . . . .	319	278	Wood	700	152'	28' 7"	11' 3"	4	1	1881
117	Williams, Ellen . . . .	274	240	Wood	500	130'	30'	10' 7"			1856
255	Winnipeg (Can.) . . .	734	681	Wood	1300	179' 5"	34' 6"	14' 5"			1893
228	Wisconsin . . . . .	532	532	Wood.		181'	30'	20' 6"			1882
276	Whitbeck, Henry . . .	498	473	Wood.	1000	167' 6"	33' 1"	11'			1880

<b>Barges</b>											
31	Woolson, Mary . . . .	708	673	Wood.	1300	179' 1"	34' 8"	13' 2"	5	1	1888
343	Wright, A. W. . . . .	530	507	Wood	1000	169' 7"	33' 3"	10' 8"	4	1	1880
<b>Steamers</b>											
305	Yale . . . . .	3453	2698	Steel.	5700	371'	45'	27'	10	4	1895
34	Yates, Harry . . . . .	6077	4927	Steel.	9700	504'	56'	30'	30	4	1910
244	Yorkton (Can.) . . . .	1771	1136	Steel.	2800	250'	42' 6"	18' 6"	6	3	1911
373	Yosemite . . . . .	3879	3044	Steel.	5600	356'	50'	28'	10	3	1901
397	Yuma . . . . .	2194	1828	Steel.	4400	320'	42'	23' 6"	9	2	1893
<b>Barges</b>											
71	York State . . . . .	277	256	Wood.	500	134'	28' 4"	11'			1869
<b>Steamers</b>											
299	Zenith City . . . . .	3850	3429	Steel.	5800	387'	48'	28'	11	4	1895
31	Zillah . . . . .	748	583	Wood	1100	201' 8"	37'	13'	4	1	1890
87	Zimmerman, Eugene	5630	4772	Steel.	8500	480'	52'	30'	14	4	1905
<b>Barges</b>											
311	Zapotec . . . . .	779		Wood.	1500	204' 7"	34' 7"	14' 6"			1890



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- 3. Canada-Atlantic Transit Co.
- 28. Central Coal Co. (25th Street).
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- 15. Cleveland & Western Coal Co. (25th St.)
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- 46. Crosby Transportation Co.
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- 12. Lehigh Valley Coal Co. (Pabst Slip).
- 38. Lehigh Valley Transportation Co.
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- 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.
- 20. National Knitting Co.
- 33. North Side Fuel Co.
- 21. Pennsylvania Coal & Supply Co. (Pennsylvania Dock).
- 31. Pennsylvania Coal & Supply Co. (Whitnall Dock).
- 45. Pennsylvania Coal & Supply Co. (Independent Dock).
- 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.).
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- 34. Wisconsin Coal & Dock Co.
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PASSENGER BOATS OF THE GREAT LAKES

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built
93	Ada Alice (Can.) ...	60	Wood	66' 5"	13' 2"	17' 6"	1879
313	Agwinde (Can.) ....	307	Wood	105'	22' 5"	4'	1900
135	Alabama . . . . .	2626	Steel	250'	44'	17'	1910
58	Alberta (Can.) . . . . .	2828	Steel	296' 5"	38' 2"	23' 3"	1883
56	Aletha (Can.) . . . . .	171	Wood	107' 4"	19' 7"	5' 5"	1901
56	Alexandria (Can.) ..	863	Wood	173' 7"	30' 6"	8' 4"	1883
186	Algoma (Can.) . . . . .	107	Wood	104'	26' 3"	11'	1901
36	Algomah . . . . .	486	Wood	127'	33'	11'	1881
35	America . . . . .	937	Wood & Steel	182' 6"	27'	13'	1898
56	America (Can.) . . . . .	521	Wood & Iron	153' 2"	33' 2"	6' 4"	1895
206	Americana . . . . .	1009	Steel	203'	45'	16'	1908
386	Areil . . . . .	202	Wood	95'	29'	11'	1881
135	Arizona . . . . .	1041	Wood	203'	40'	20' 2"	1889
337	Arrow . . . . .	365	Wood & Steel	165'	28'	17' 6"	1895
58	Assiniboia (Can.) ...	3879	Steel	336'	43' 6"	26' 6"	1907
58	Athabasca (Can.) ...		Steel	298' 8"	38' 2"	23' 3"	1883
358	Bain, Jessie (Can.)..	67	Wood	70' 8"	14' 8"	5'	1888
35	Barker, S. B. . . . .	176	Wood	92'	17'	14'	1882
186	Bawating (Can.) ...	199	Wood	104'	29'	22'	1875
242	Beard, James . . . . .	87	Wood	73'	17'	6'	1873
56	Bellville (Can.) . . . . .	1223	Iron	200' 8"	28'	11'	1864
375	Bluebell (Can.) . . . . .	12	Wood	48' 5"	8' 9"	3' 6"	1888
64	Boeckling, G. A. . . . .	328	Steel	140'	30'	9'	1909
162	Bon Ami . . . . .	227	Wood	108'	22'	5' 8"	1876
56	Boucherville (Can.) .	419	Wood	178' 9"	26' 3"	9' 2"	1886
99	Britannia . . . . .	791	Steel	164'	45'	17' 9"	1906

56	Brockville (Can.) ...	191	Wood	105'	21' 5"	5' 7"	1893
206	Canadiana . . . . .	974	Steel	203'	45'	16'	1910
107	Caribou (Can.) . . . . .	596	Wood	150'	27'	12'	1904
135	Carolina . . . . .	1304	Iron	220'	40'	21'	1892
56	Caspian (Can.) . . . . .	957	Iron	177' 6"	43' 4"	6' 7"	1846
267	Cayuga (Can.) . . . . .	2167	Steel	306'	36' 6"	15'	1906
135	Chicago . . . . .	747	Wood	205'	30'	19' 7"	1874
267	Chicora (Can.) . . . . .	930	Wood	221'	26'	10' 9"	1864
51	Chieftain (Can.) . . . . .	355	Wood	136' 8"	24' 1"	9' 4"	1873
267	Chippewa (Can.) ...	1514	Wood & Iron	308' 5"	36' 3"	12' 5"	1893
16	Chippewa . . . . .	453	Iron	201'	28'	12'	1884
100	City of Alpena II....	1735	Wood & Steel	266'	38' 4"	24'	1893
138	City of Benton Har- bor . . . . .	1286	Steel	248'	37'	15' 6"	1904
80	City of Buffalo . . . . .	2940	Wood & Steel	340' 3"	43' 5"	17' 4"	1896
354	City of Chatham (Can.) . . . . .	362	Wood	125' 6"	31' 5"	9'	1888
36	City of Cheboygan ..	247	Wood	98'	29' 9"	10'	1890
100	City of Cleveland III.	4568	Steel	402'	54'	22'	1907
100	City of Detroit II ...	1919	Wood & Steel	286'	41'	25' 8"	1889
100	City of Detroit III ..	6061	Steel	472'	55'	22'	1912
310	City of Dresden (Can.) . . . . .	194	Wood	93'	21'	8' 9"	1872
80	City of Erie . . . . .	2498	Wood & Steel	316'	44'	29'	1898
138	City of Grand Rapids	3061	Steel	291'	48'	27'	1912
56	City of Hamilton ...	1574	Wood & Steel	220'	32' 5"	14'	1871
29	City of London (Can.)	110	Wood	84'	18'	5' 5"	1886
100	City of Mackinac II .	1749	Wood & Steel	266'	38'	24' 4"	1893
169	City of Marquette ..	341	Wood	114'	25'	9'	1890
293	City of Meaford (Can.) . . . . .	328	Wood	111'	24'	8' 5"	1906
56	City of Midland (Can.) . . . . .	974	Wood	176' 4"	28' 3"	10' 7"	1890



PASSENGER BOATS OF THE GREAT LAKES—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built
56	City of Ottawa (Can.)	1529	Wood & Iron	220'	32' 5"	14'	1871
100	City of St. Ignace ..	1923	Wood & Steel	272'	40'	25' 6"	1886
75	City of South Haven	1719	Steel	232'	42'	16'	1903
143	City of The Straits..	1094	Wood & Steel	234'	34'	22' 9"	1878
293	City of Toledo .....	1003	Wood & Steel	212'	31' 6"	22' 3"	1891
380	City of Toronto (Can.)	492	Wood	150'	24'	9' 2"	1895
138	City of Traverse ....	1153	Wood	214'	31' 6"	22'	1871
232	Clark, Alfred (Can.)	227	Wood	110'	24'	7' 6"	1887
351	Clark Brothers (Can.)	92	Wood	80'	16' 2"	5' 5"	1890
326	Columbia .....	139	Wood	109'	21' 6"	16' 3"	1893
99	Columbia .....	968	Steel	216'	45'	12' 6"	1902
221	Columbia .....	255	Wood	133' 6"	29'	9'	1885
135	Columbus, Christopher	1511	Steel	348'	42'	24'	1893
242	Conger, O. D. ....	199	Wood	92'	26'	11'	1882
267	Corona (Can.) .....	1274	Steel	270' 3"	32' 5"	12' 5"	1896
89	Crosby, E. G. ....	1181	Iron	203' 9"	35'	11' 7"	1881
172	Dahlia .....	426	Iron	129' 5"	25'	11' 6"	1874
227	Dalhousie City (Can.)	1256	Steel	199' 8"	37'	20' 7"	1911
242	Dormer, Grace .....	65	Wood	71'	17' 6"	5' 6"	1868
197	Duchess of York (Can.)	490	Steel	156' 8"	25' 3"	9' 4"	1889
100	Eastern States .....	3077	Steel	350'	45' 3"	19' 6"	1902

THE SHIP MASTERS' ASSOCIATION

356	Eastland .....	1961	Steel	265'	38' 2"	19' 5"	1903
35	Easton .....	460	Steel	155'	30'	9' 7"	1896
16	Elva .....	81	Wood	71'	18'	16' 6"	1889
66	Empress (Can.) ....	678	Iron	185' 3"	27' 6"	16'	1873
25	Emerald (Can.) ....	385	Wood	140'	21' 7"	6' 8"	1903
386	Essex .....	266	Steel	94'	36'	14' 7"	1913
99	Excelsior .....	229	Wood	116'	25'	13' 6"	1876
280	Forest City (Can.)..	571	Steel	175'	39' 6"	9' 6"	1891
268	Garden City (Can.)	637	Steel	177' 9"	26'	10'	1892
99	Garland .....	248	Wood	107'	29'	12'	1880
56	Germanic (Can.) ....	1014	Wood	184'	32'	12'	1899
135	Georgia .....	895	Wood	196'	34' 6"	20'	1880
281	Glen Allen (Can.) ..	276	Comp.	104'	25'	9'	1912
187	Glenn .....	277	Wood	108'	22'	17'	1889
393	Greyhound .....	1392	Steel	276'	38'	15'	1902
150	Grimsby (Can.) ....	700	Wood	185'	26'	9' 7"	1876
56	Hamilton (Can.) ....	937	Iron	175' 2"	25' 2"	10' 8"	1895
56	Hamonic (Can.) ....	5264	Steel	341'	50'	35'	1909
351	Hanlan, John (Can.)	37	Wood	71'	16'	6'	1884
356	Hart, Eugene C. ....	522	Wood	152'	25'	18'	1890
81	Hayes, R. B. ....	164	Wood	134'	21'	7'	1876
95	Hazel .....	66	Wood	87'	18'	14'	1879
138	Holland .....	1148	Wood & Iron	231'	33' 6"	22'	1881
172	Hill, Flora M. ....	525	Steel	140'	25'	10' 5"	
242	Hiawatha (Can.) ...	163	Wood	92' 7"	20'	7' 6"	1874
359	Huron .....	538	Wood & Iron	200'	32'	21'	1885
56	Huronic (Can.) ....	3329	Steel	308'	43'	27'	1902
359	Idlewild .....	363	Iron	186'	26'	15' 6"	1879
271	Illinois .....	2427	Steel	225'	40'	26'	1899
135	Indiana .....		Wood	223'	35'	24'	1890
331	International (Can.)	95	Wood	182'	30'	10'	1881
375	Island Queen (Can.)	23	Wood	73'	13' 9"	4' 4"	1889
16	Islander .....	291	Wood	139'	23'	17'	1895

PASSANGER BOATS

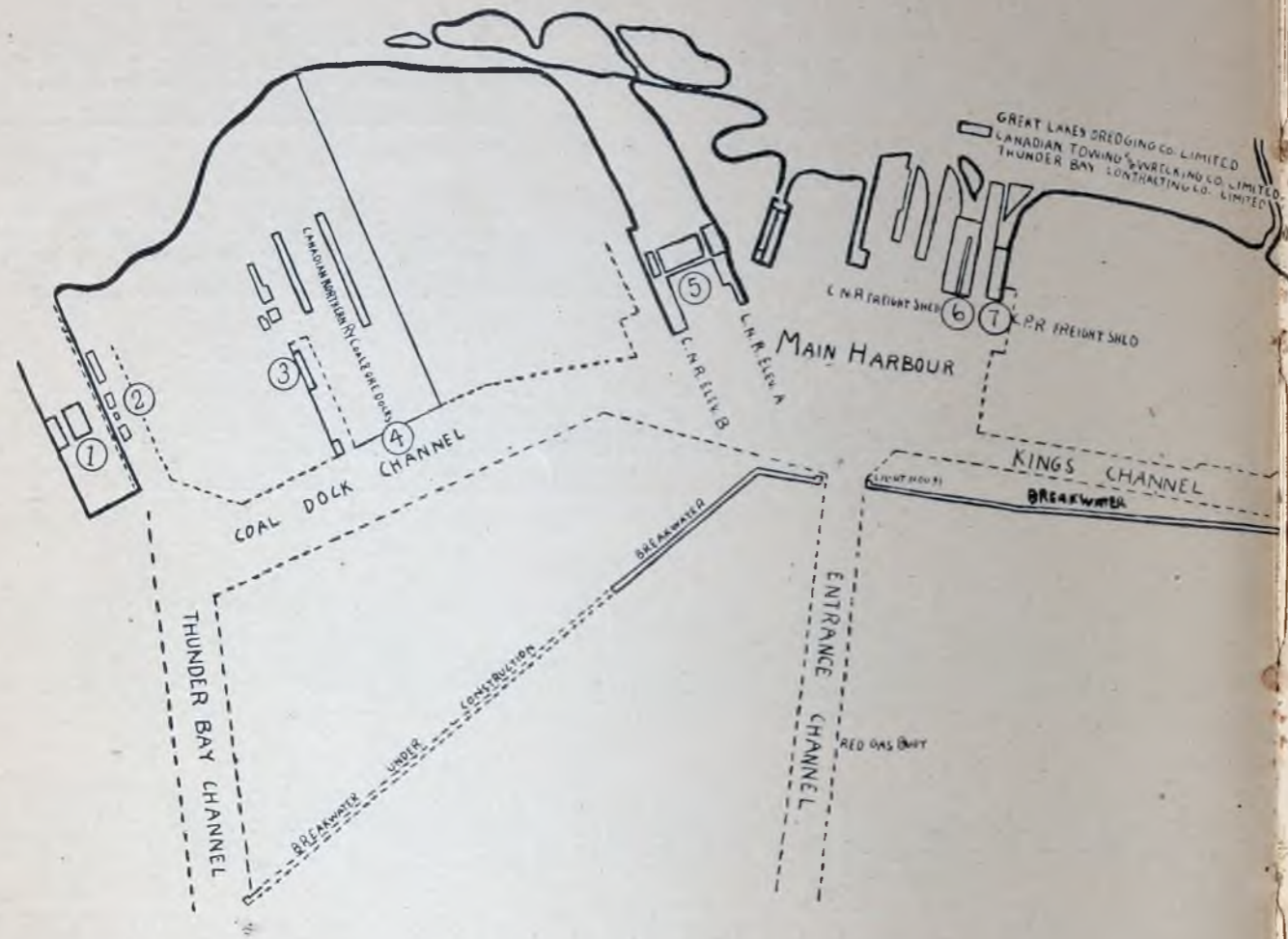


PASSENGER BOATS OF THE GREAT LAKES—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built
8	Juniata . . . . .	4333	Steel	340'	45'	28'	1905
271	Kansas . . . . .	835	Wood	185'	33'	19'	1876
313	Kenora (Can.) . . . . .	486		119' 9"	28'	8' 3"	1897
58	Keewatin (Can.) . . . . .	3856	Steel	336'	43' 6"	26' 6"	1907
313	Keewatin (Can.) . . . . .	82	Wood	69'	16' 5"	6' 2"	1899
56	Kingston (Can.) . . . . .	2925	Steel	288'	36' 2"	13' 3"	1901
17	Kirby, Frank E. . . . .	532	Iron	195'	30'	20'	1890
309	Lakeland . . . . .	2425	Steel	280'	39'	24'	1887
309	Lake Port . . . . .		Wood & Iron	263'	36' 4"	27'	1880
287	Lakeside . . . . .	337	Steel	148' 5"	28'	9' 7"	1901
175	Lakeside (Can.) . . . . .	348	Wood	121'	26'	9' 3"	1888
309	Lakewood . . . . .		Wood & Iron	266'	38'	26'	1884
339	Lapairie (Can.) . . . . .	600	Wood	197' 3"	28'	8' 2"	1869
102	Liberty . . . . .	143	Wood	97'	19'	13' 6"	1889
56	Longueuil (Can.) . . . . .	379	Wood	170'	57' 5"	9' 1"	1884
375	Luella (Can.) . . . . .	38	Wood	66'	13' 3"	6'	1880
267	Macassa (Can.) . . . . .	459	Steel	154' 4"	24'	16' 3"	1888
16	Mackinac . . . . .	525	Steel	140'	28'	11' 6"	1909
56	Majestic (Can.) . . . . .	1578	Wood	209'	35'	12' 6"	1895
58	Manitoba (Can.) . . . . .	2616	Steel	303'	38'	24' 6"	1889
271	Manitou . . . . .	2944	Steel	275'	42'	24' 6"	1893
107	Manitou (Can.) . . . . .	470	Wood	137' 2"	24' 2"	9' 1"	1903
259	Marion . . . . .	930	Wood	202'	35'	15'	1889
375	Mayflower (Can.) . . . . .	189	Steel	140' 2"	28' 2"	6' 8"	1890
169	Maywood . . . . .	398	Steel	130'	28'	10' 6"	1905
351	Mazeppa (Can.) . . . . .	146	Wood	101'	20'	5' 7"	1884

27	McVey, Charles . . . . .	331	Wood	132'	26'	17' 6"	1889
235	Michipicotin (Can.) . . . . .	511	Wood	117'	24' 8"	11'	1883
168	Minnie M. (Can.) . . . . .	613	Wood	140'	30'	10'	1884
271	Minnesota . . . . .	3320	Steel	286'	41'	26'	1888
271	Missouri . . . . .	2434	Steel	225'	40'	16'	1904
306	Miss Vanderberg (Can.) . . . . .	266		99'	20'	9'	
267	Modjeska (Can.) . . . . .	678	Steel	178'	31'	12' 3"	1889
56	Montreal (Can.) . . . . .	4282	Steel	332' 4"	43' 5"	14' 8"	1904
35	Moore, C. W. . . . .	383	Wood	124'	24' 6"	16'	1881
56	Murray Bay (Can.) . . . . .	969	Iron	251'	34' 7"	7' 9"	1887
56	New Island Wanderer . . . . .	195	Wood	116'	21'	7'	1888
56	News Boy . . . . .	199	Wood	104'	22'	6'	1889
369	Niagara (Can.) . . . . .	396	Iron	159'	21'	10' 4"	1856
185	Niagara Frontier . . . . .	421	Steel	121'	38'	14'	1910
259	Normandie . . . . .	562	Wood	160'	35'	11' 6"	1894
56	Noronic (Can.) . . . . .	6905	Steel	362'	52'	28' 9"	1913
72	North American . . . . .	2317	Steel	259'	47'	18' 3"	1913
56	North King (Can.) . . . . .	873	Wood	175'	43'	10'	1868
272	North Land . . . . .	4244	Steel	358'	44'	24'	1895
272	North West . . . . .	4244	Steel	358'	44'	24'	1894
89	Nyack . . . . .	1188	Wood	231'	33'	24'	1878
8	Octorora . . . . .	4329	Steel	340'	45'	28'	1910
44	Olcott (Can.) . . . . .	337	Steel	148' 5"	28'	9' 7"	1901
243	Ongiara (Can.) . . . . .	98	Wood	90' 5"	18' 4"	5' 4"	1885
69	Ossifrage (Can.) . . . . .	303	Wood	161' 6"	27' 8"	9'	1886
56	Outing . . . . .	18	Wood	61'	11'	4'	1892
393	Owana . . . . .	747	Wood & Steel	200'	32'	20'	1899
401	Pelee (Can.) . . . . .	538	Steel	137'	24'	11' 3"	1914
213	Pennsylvania (Can.) . . . . .	428	Wood	158'	35' 4"	8' 4"	1901
199	Pere Marquette No. 3 . . . . .	924	Wood	190'	33'	22'	1887
199	Pere Marquette No. 4 . . . . .	941	Wood	186'	34' 6"	22'	1888
199	Pere Marquette No. 5 . . . . .	1722	Wood	226'	38'	26'	1890

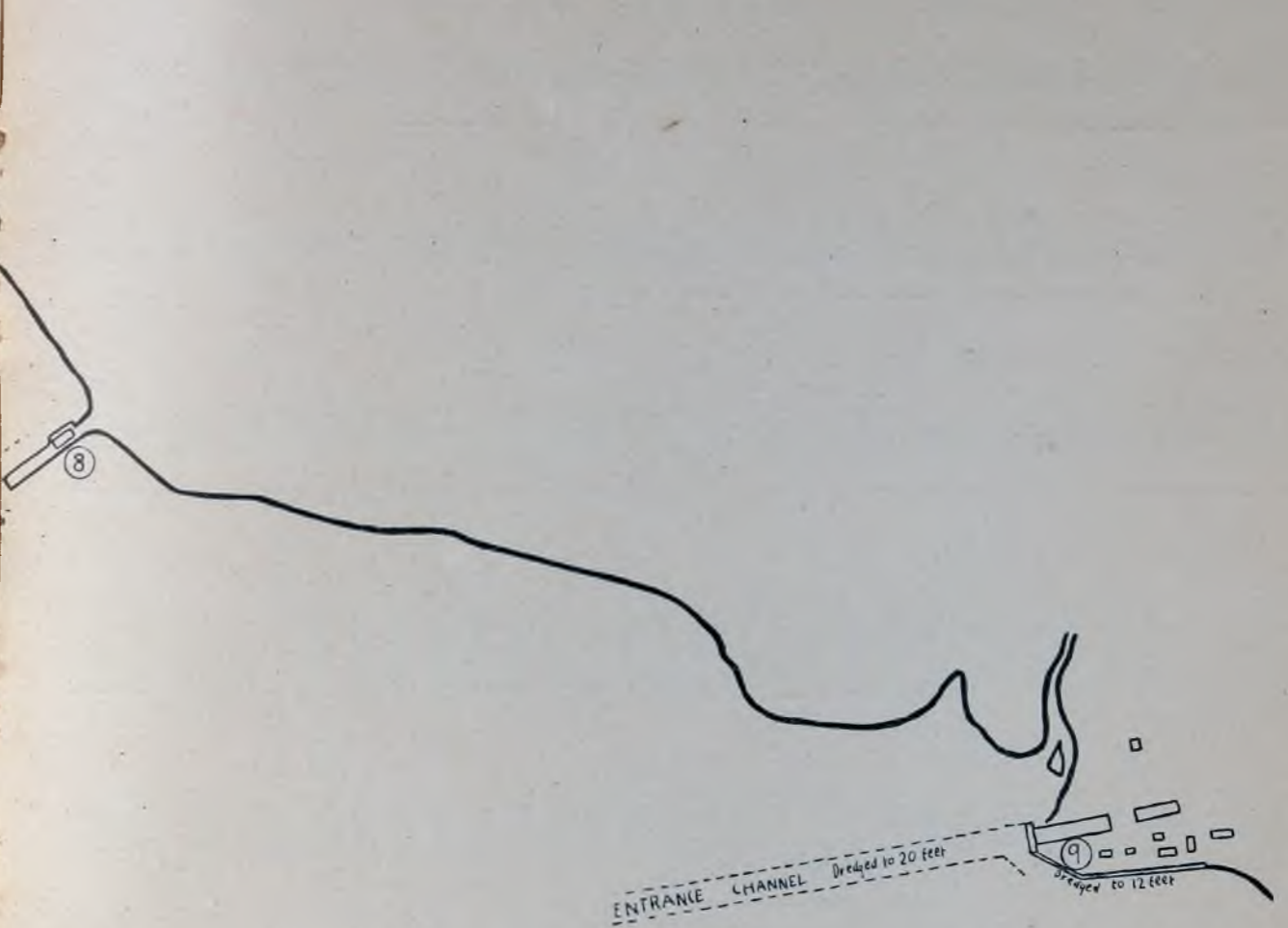




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- 8. Canadian Pacific Rys., (Hornes Elevator).
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- 2. Thunder Bay Terminal Elevator Co., Ltd.
- 9. Western Dry Dock & Shipbuilding Co., Ltd.



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BASE POINT  
BREAKWATER



PASSENGER BOATS OF THE GREAT LAKES—Continued

Fleet No.	VESSEL	Gross Tonnage	Built of	Keel Length	Beam	Depth	Year Built
199	Pere Marquette No. 6	371	Wood	125'	27'	9' 6"	1888
199	Pere Marquette No. 7	141	Wood	112'	22'	11'	1903
199	Pere Marquette No. 8	691	Wood	171'	35'	20'	1888
75	Petoskey . . . . .	770	Wood	171'	30'	20'	1888
56	Philippe, Louis (Can.)	600	Steel	162'	37'	12' 3"	1914
56	Pierrepont (Can.) ..	252	Wood & Iron	123'	18' 8"	7' 1"	1871
99	Pleasure . . . . .	489	Wood	128'	39'	13' 7"	1894
221	Plow Boy . . . . .	114	Wood	78'	21'	6'	1887
56	Plumb, Henry . . . . .	92	Wood	79'	18'	6'	1874
	Prescott (Can.) . . . . .	1107	Wood	195'	27' 8"	9'	1873
375	Primrose (Can.) . . . . .	189	Steel	140'	28'	6' 8"	1890
66	Princess (Can.) . . . . .	527	Wood	141' 9"	22' 4"	7' 8"	1872
99	Promise . . . . .	473	Wood	119'	38'	15'	1892
138	Puriton . . . . .	1762	Steel	260'	40'	24' 6"	1901
17	Put-in-Bay . . . . .	1182	Steel	227'	46'	17' 3"	1911
56	Quebec (Can.) . . . . .	3453	Steel	303'	39'	12'	1906
73	Racine . . . . .	1089	Steel	173' 5"	31' 6"	20' 8"	1901
56	Ramona . . . . .	57	Steel	95'	13'	7'	1886
56	Rapids King (Can.)	1801	Steel	230'	40' 7"	10'	1907
56	Rapids Prince (Can.)	1384	Steel	196' 6"	37'	9' 8"	1910
56	Rapids Queen (Can.)	1307	Steel	194' 4"	33' 3"	8' 8"	1892
263	Reliance (Can.) . . . . .	311	Comp.	124'	23'	11' 6"	1892
323	Rideau King (Can.)	266	Wood	107'	23' 4"	6'	1893
323	Rideau Queen (Can.)	351	Wood	108'	27' 3"	6' 9"	1900
184	Rochester . . . . .	1603	Steel	246' 6"	42'	14' 9"	1910
184	Roosevelt, Theo. . . . .	1955	Steel	264'	40'	16'	1906
56	Saguenay (Can.) . . . . .	2777	Steel	258'	40'	14' 9"	1911
162	Sailor Boy . . . . .	162	Wood	91'	24'	6' 6"	1891
186	Saint Louis . . . . .	985	Wood	193'	31' 6"	13' 9"	1864

99	Sappho . . . . .	223	Wood	107'	31'	13'	1883
56	Saronic (Can.) . . . . .	1960	Wood	253'	36'	23'	1882
80	Seeandbee . . . . .	6381	Steel	485'	58'	23' 6"	1913
78	Soo City (Can.) . . . . .	500	Wood	135'	25'	9'	1889
72	South American . . . . .		Steel	291'	47'	18'	1914
100	State of New York..	807	Wood & Iron	203'	32'	21'	1883
80	State of Ohio . . . . .	1221	Wood & Iron	225'	32'	22'	1880
99	Ste. Claire . . . . .	870	Steel	181'	50'	17' 6"	1910
56	St. Irene (Can.) . . . . .	1768	Iron	248'	31'	11'	1866
56	St. Lawrence (Can.)	312	Wood	154'	21'	7'	1884
56	Syracuse (Can.) . . . . .	2105	Steel	205' 6"	43' 6"	11' 6"	1911
56	Tadausac (Can.) . . . . .	1701	Wood	248' 4"	34' 7"	9' 6"	1879
393	Tashmoo . . . . .	1344	Steel	306'	36'	22' 3"	1900
162	Thistle . . . . .	49	Wood	80'	14'	6'	1887
56	Thousand Islander ..	355	Steel	164'	32'	9' 6"	1912
8	Tionesta . . . . .	4329	Steel	340'	45'	28'	1903
56	Toronto (Can.) . . . . .	2779	Steel	269' 4"	36'	13' 8"	1899
104	Tourist . . . . .	64	Steel	76'	18'	8'	1909
375	Trillium (Can.) . . . . .	673	Steel	135'	30'	8' 4"	1910
56	Trois Rivieres (Can.)	1449	Iron	219' 8"	32'	9' 6"	1869
267	Turbinia (Can.) . . . . .	1064	Steel	250'	33'	13'	1904
185	United Shores . . . . .	336	Steel	150' 6"	38'	12' 1"	1911
184	United States . . . . .	1373	Steel	200'	40'	17'	1909
56	Varuna (Can.) . . . . .	134	Wood	94' 4"	17'	5' 1"	1880
135	Virginia . . . . .	1606	Steel	269'	38'	24'	1891
99	Victoria . . . . .	192	Wood	96'	28'	11' 6"	1872
381	Victoria (Can.) . . . . .	181	Wood	100'	21'	5' 6"	1899
36	Wau-Kon . . . . .	137	Wood	95'	19'	16'	1883
56	Waubic (Can.) . . . . .	504	Steel	135'	25'	9'	1903
393	Wauketa . . . . .	903	Steel	175'	38' 4"	14'	1908
64	Wehrle, A., Jr. . . . .	421	Wood	148'	26' 6"	9'	1883
100	Western States . . . . .	3077	Steel	350'	45' 3"	19' 6"	1902
294	Where-Now (Can.) ..	48	Wood	77'	12' 8"	6' 6"	1889
271	Wisconsin . . . . .	769	Wood	181'	30'	20' 6"	1882
27	Woods, Frank . . . . .	384	Wood	120'	26'	18'	1888



CAR FERRIES OF

Fleet No.	STEAMERS	Net Tonnage	Gross Tonnage	Built of	Di
					Keel Length
11	Str. Ann Arbor No. 3	996	1677	Steel.	259'
11	Str. Ann Arbor No. 4	1082	1884	Steel.	259'
11	Str. Ann Arbor No. 5	1961	2884	Steel.	378'
289	Str. Ashtabula	1525	2670	Steel.	338'
36	Str. Chief Wawatam	1793	2990	Steel.	332'
383	Str. Detroit	1307	2089	Steel.	284'
140	Str. Grand Haven	1643	2320	Steel.	306'
139	Str. Great Western (Can.)	662	1080	Iron..	220'
139	Str. Huron (Can.)	688	1052	Iron..	238' 5"
347	Str. International (Can.)	559	851	W.& I.	210'
139	Str. Lansdowne (Can.)	908	1571	Iron..	294'
54	Str. Lyon, Charles (Can.)	1127	1600	Steel.	248'
208	Str. Marquette & Bessemer No. 1	998	1732	Steel.	241'
230	Str. Marquette & Bessemer No. 2	1516	2583	Steel.	338'
59	Str. Michigan (Can.)	1349	1730	Steel.	297'
193	Str. Michigan Central	999	1522	Iron..	263'
140	Str. Milwaukee	1755	2933	Steel.	338'
59	Str. Ontario (Can.)	1018	1615	Steel.	297'
294	Str. Pere Marquette	1634	2443	Steel.	338'
294	Str. Pere Marquette No. 14	1655	2531	Steel.	350'
294	Str. Pere Marquette No. 16	1317	1938	Wood.	283'
294	Str. Pere Marquette No. 17	1685	2775	Steel.	338'
294	Str. Pere Marquette No. 18	1660	2777	Steel.	338'
294	Str. Pere Marquette No. 19	1543	2626	Steel.	338'
294	Str. Pere Marquette No. 20	1491	2626	Steel.	338'
391	Str. St. Ignace	600	1199	Wood	215'
391	Str. St. Marie	1620	2383	Steel.	332'
383	Str. Transfer	1060	1511	Steel.	265'
383	Str. Transport	797	1594	Iron..	254'

THE GREAT LAKES

MENSIONS		Year Built	By Whom Built	Where Built
Beam	Depth			
52'	18' 6"	1898	Globe Iron Works.	Cleveland, Ohio.
52'	19'	1906	American Ship Building Co.	Cleveland, Ohio.
56'	21'	1910	Toledo Ship Building Co.	Toledo, Ohio.
56'	20' 6"	1906	Great Lakes Eng. Works.	St. Clair, Mich.
62'	25'	1911	Toledo Ship Building Co.	Toledo, Ohio.
64'	19' 6"	1904	Great Lakes Eng. Works.	Ecorse, Mich.
54'	20'	1903	Craig Ship Building Co.	Toledo, Ohio.
40' 2"	13'	1866	Grand Trunk Ry. Co.	Windsor, Ont.
53' 9"	12' 8"	1875	Smith.	Pt. Edward, Ont.
40'	12' 8"	1872		Ft. Erie, Ont.
41' 3"	13'	1884	Detroit Dry Dock Co.	Detroit, Mich.
40'	22'	1907	Polson Iron Works.	Toronto, Ont.
43'	21' 6"	1904	Buffalo Ship Building Co.	Buffalo, N. Y.
56'	19' 6"	1910	American Ship Building Co.	Cleveland, Ohio.
41'	15'	1891	F. W. Wheeler & Co.	W. Bay City, Mich.
45' 6"	15' 6"	1884	Detroit Dry Dock Co.	Wyandotte, Mich.
56'	19' 6"	1903	American Ship Building Co.	Cleveland, Ohio.
41' 3"	14' 9"	1891	Polson Iron Works.	Owen Sound, Ont.
52'	21'	1904	Detroit Ship Building Co.	Detroit, Mich.
56'	28'	1896	F. W. Wheeler & Co.	W. Bay City, Mich.
53'	19'	1895	Craig Ship Building Co.	Toledo, Ohio.
56'	19' 6"	1901	American Ship Building Co.	Cleveland, Ohio.
56'	19' 6"	1910	American Ship Building Co.	Chicago, Ill.
56'	19' 6"	1903	American Ship Building Co.	Cleveland, Ohio.
56'	19' 6"	1903	American Ship Building Co.	Cleveland, Ohio.
52'	16'	1888	Detroit Dry Dock Co.	Detroit, Mich.
62'	25'	1913	Toledo Ship Building Co.	Toledo, Ohio.
45' 6"	17'	1888	Cleveland Ship Bldg. Co.	Cleveland, Ohio.
46'	14' 9"	1880	Detroit Dry Dock Co.	Wyandotte, Mich.



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From Green's Marine Directory of the Great Lakes

Acme Transit Co. ....	Fleet No. 165
Adams Transportation Co. ....	" 87
Algoma Central Steamship Co., Ltd. ....	" 2
Alva Steamship Co. ....	" 400
American International S. S. Co. ....	" 4
American Steamship Co. ....	" 34
American Steamship Co. ....	" 240
American Steamship Co. ....	" 7
Ann Arbor Steamship & Ry. Lines ....	" 11
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Argo Steamship Co. ....	" 14
Arnold Transportation Co. ....	" 16
Atlas Steamship Co. ....	" 19
Bassett S. S. Co. ....	" 23
Benton Transit Co. ....	" 27
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Cabotia Steamship Co., Ltd. ....	" 47
Cadillac Steamship Co. ....	" 275
Cadwell Transit Co. ....	" 48
Calbrick Transportation Co. ....	" 176
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Cambria Steamship Co. ....	" 159
Canada Atlantic Transit Co., Ltd. ....	" 51
Canada Cement Transport Co., Ltd. ....	" 52
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Canadian Pacific Car and Passenger Transfer Co. ....	" 54
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Chicago, Racine & Milwaukee Line ....	" 73
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Christopher Steamship Co. ....	" 366
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Cleveland & Buffalo Transit Co. ....	" 80
Columbia Steamship Co. ....	" 24
Continental Steamship Co. ....	" 373
Corsica Transit Co. ....	" 180
Crosby Transportation Co. ....	" 89
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Dearborn Transit Co. ....	" 387
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Milwaukee Steamship Co.	252	
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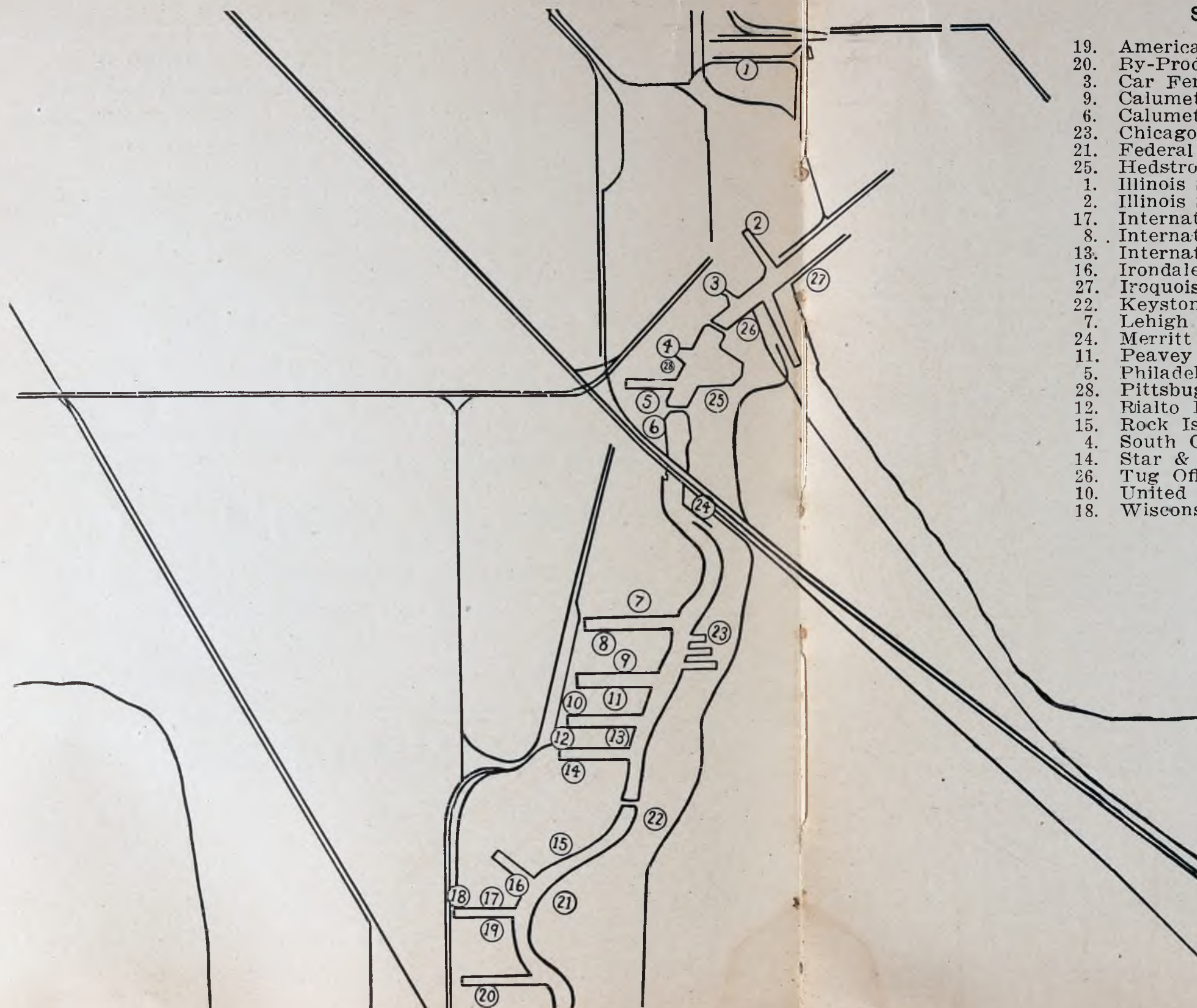
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Oilers, to Oct. 1st .....	55.00
Firemen and Water Tenders, to Oct. 1st .....	52.50
Firemen, Oilers and Water Tenders, Oct. 1st to close of navigation ..	65.00
Wheelmen-Lookoutsmen, to Oct. 1st .....	55.00
Wheelmen-Lookoutsmen, Oct. 1st to close of navigation .....	65.00
Wheelmen, to Oct. 1st .....	50.00
Wheelmen, Oct. 1st to close of navigation .....	65.00
Lookoutsmen, to Oct. 1st .....	50.00
Lookoutsmen, Oct. 1st to close of navigation .....	65.00
Ordinary Seamen, to Oct. 1st .....	35.50
Ordinary Seamen, Oct. 1st to close of navigation .....	40.00

### STEEL STEAMERS

#### Second Class

Chief Engineers. Bulk freight steamers 500 to 2,100 tons .....	\$ 140.00
Assistant Engineers. Bulk freight steamers 500 to 2,100 tons .....	100.00
Chief Engineers, steel package freight steamers 1,800 to 3,000 gross tons . . . . .	155.00

#### Note

Class A—Steel Steamers of over 4,000 gross ton government register. Steamers 4,000 to 5,500 gross tons carry third engineer only when equipped with water tube boilers and mechanical stokers.

Class B—Steel bulk freight Steamers of 2,100 to 4,000 gross tons gov-  
ernment register, and steel package freight. Steamers over 3,000 gross tons,  
government register. Steel bulk freighters this class carry third engineer  
only when equipped with water tube boilers and mechanical stoker.

Boatswains shall be carried on all boats of over 4,500 gross tons, gov-  
ernment register.



**CARD OF WAGES**

419

Per M.

1st Assistant Engineers, steel package freight steamers, 1,800 to 3,000 gross tons .....	\$ 110.00
1st Mates .....	112.00
2d Mates .....	78.00
Cooks, vessels less than 4,000 gross tons .....	78.00
2d Cooks and Waiters, to Oct. 1st .....	36.00
2d Cooks and Waiters, Oct. 1st to close of navigation .....	37.50
Porters, to Oct. 1st .....	30.00
Porters, Oct. 1st to close of navigation .....	35.00
Oilers, to Oct. 1st .....	55.00
Firemen and Water Tenders, to Oct. 1st .....	52.50
Firemen, Oilers and Water Tenders, Oct. 1st to close of navigation .....	65.00
Wheelmen-Lookoutsmen, to Oct. 1st .....	55.00
Wheelmen-Lookoutsmen, Oct. 1st to close of navigation .....	65.00
Wheelmen, to Oct. 1st .....	50.00
Wheelmen, Oct. 1st to close of navigation .....	65.00
Lookoutsmen, to Oct. 1st .....	50.00
Lookoutsmen, Oct. 1st to close of navigation .....	65.00
Ordinary Seamen, to Oct. 1st .....	31.50
Ordinary Seamen, Oct. 1st to close of navigation .....	40.00

**Third Class**

Chief Engineers, under 500 tons .....	\$ 105.00
Assistant Engineers, under 500 tons .....	75.00
1st Mates .....	90.00
2d Mates (when carried) .....	60.00
Cooks ..	78.00
2d Cooks and Waiters, to Oct. 1st .....	36.00
2d Cooks and Waiters, Oct. 1st to close of navigation .....	37.50
Oilers, to Oct. 1st .....	55.00
Firemen and Water Tenders, to Oct. 1st .....	52.50
Firemen, Oilers and Water Tenders, Oct. 1st to close of navigation .....	65.00
Wheelmen-Lookoutsmen, to Oct. 1st .....	55.00
Wheelmen-Lookoutsmen, Oct. 1st to close of navigation .....	65.00
Wheelmen, to Oct. 1st .....	50.00
Wheelmen, Oct. 1st to close of navigation .....	65.00
Lookoutsmen, to Oct. 1st .....	50.00
Lookoutsmen, Oct. 1st to close of navigation .....	65.00
Ordinary Seamen, to Oct. 1st .....	31.50
Ordinary Seamen, Oct. 1st to close of navigation .....	40.00

**WOODEN STEAMERS**

**First Class**

Chief Engineers. Bulk freight steamers over 1,200 tons. Package freight steamers over 750 tons .....	\$ 140.00
Assistant Engineers. Bulk freight steamers over 1,200 tons. Package freight steamers over 750 tons .....	100.00
1st Mates .....	112.00
2d Mates .....	78.00
Cooks ..	78.00
2d Cooks and Waiters, to Oct. 1st .....	36.00
2d Cooks and Waiters, Oct. 1st to close of navigation .....	37.50
Porters, to Oct. 1st .....	30.00
Porters, Oct. 1st to close of navigation .....	35.00
Oilers, to Oct. 1st .....	55.00
Firemen and Water Tenders, to Oct. 1st .....	52.50



	Per M.
Firemen, Oilers and Water Tenders, Oct. 1st to close of navigation	\$ 65.00
Wheelmen-Lookoutsmen, to Oct. 1st	55.00
Wheelmen-Lookoutsmen, Oct. 1st to close of navigation	65.00
Wheelmen, to Oct. 1st	50.00
Wheelmen, Oct. 1st to close of navigation	65.00
Lookoutsmen, to Oct. 1st	50.00
Lookoutsmen, Oct. 1st to close of navigation	65.00
Ordinary Seamen, to Oct. 1st	31.50
Ordinary Seamen, Oct. 1st to close of navigation	40.00

### WOODEN STEAMERS

#### Second Class

Chief Engineers. Bulk freight steamers 600 to 1,200 tons. Package freight steamers 600 to 750 tons	\$ 125.00
Assistant Engineers. Bulk freight steamers 600 to 1,200 tons. Package freight steamers 600 to 750 tons	100.00
1st Mates	94.00
2d Mates (when carried)	62.50
Cooks	78.00
2d Cooks and Waiters, to Oct. 1st	36.00
2d Cooks and Waiters, Oct. 1st to close of navigation	37.50
Oilers, to Oct. 1st	55.00
Firemen and Water Tenders, to Oct. 1st	52.50
Firemen, Oilers and Water Tenders, Oct. 1st to close of navigation	65.00
Wheelmen-Lookoutsmen, to Oct. 1st	55.00
Wheelmen-Lookoutsmen, Oct. 1st to close of navigation	65.00
Wheelmen, to Oct. 1st	50.00
Wheelmen, Oct. 1st to close of navigation	65.00
Lookoutsmen, to Oct. 1st	50.00
Lookoutsmen, Oct. 1st to close of navigation	65.00
Ordinary Seamen, to Oct. 1st	31.50
Ordinary Seamen, Oct. 1st to close of navigation	40.00

### BARGES

Mates on barges shall receive not less than ten dollars (\$10) per month more than seamen on the same vessel; and donkey men five dollars (\$5) per month more than seamen.

Mates' wages on tow barges of the larger class (vessels which paid their mates \$73.00 a month last year) shall be paid \$73.00 per month for the entire season.

Able-bodied seamen on tow barges shall receive fifty-two dollars and fifty cents (\$52.50) per month until October first, and sixty-five dollars (\$65.00) per month from October 1st to the close of navigation.

The engineers on tow barges carrying towing machines shall receive \$73.00.

The cooks on tow barges shall receive the same wages as the seamen on the same barges.

Ordinary seamen on barges \$31.50 per month to Oct. 1st, and \$40.00 per month from Oct. 1st to close of navigation.

### GENERAL

Wages of Seamen, Firemen, Oilers and Water Tenders employed in fitting out shall be \$2.00 per day while they are not boarded on vessel.

Wheelmen-Lookoutsmen are men who stand a three-hour trick at the wheel and three-hours watch on deck each watch.

Wheelsmen are men who stand a trick at the wheel but will not watch. Lookoutsmen are men who stand a watch on deck but cannot wheel. Handymen, where carried, same wages as firemen.

The following resolution was adopted unanimously by the Lake Carriers' Association, and as it admits of no deviation the officers of our ships, in all departments, must govern themselves accordingly:

The experience of the ship owners, managers and licensed officers for the past years has demonstrated the necessity of what is referred to as the open shop principle, in order to give that control and direction of the ships which is required for the equal good of the owner, the employe of the ships and the dependent trade. And so it is resolved:

1. That the owners of ships on the Great Lakes do now declare that the open shop principle be adopted and adhered to on our ships.

2. That the Lake Carriers' Association stands for the foregoing principle.

3. That the matter be referred to the executive committee with full power to act and carry out this principle.

4. That it should be the aim of the committee in the means they shall adopt, to recognize a fair and equitable rate of wages, to insist on such regulations as shall promote the comfort, and well-being of the employes, shall put the discipline of the ship in the hands of the executive officers and tendering liberal appropriate wages and conditions, requiring in response appropriate, diligent and prompt service from the members of the crew.

5. And at this meeting, representing 91 per cent of the tonnage of the association, as a definite and specific support to the committee it is voted to adhere to and observe this action, referring also any and all special cases to the committee.

W. LIVINGSTONE,  
President.

Bell Phone, Main 1950

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CLEVELAND, OHIO



**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 5/6	61 1/4
1	40	37 1/3	46 2/3	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 5/6	1 13 3/4
1 3/4	70	65 1/3	81 2/3	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 5/6	1 66 1/4

2 1/2	1 00	93 1/3	1 16 2/3	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 2/3	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 2/3	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 2/3	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 2/3	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 2/3	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 2/3	4 90
For each addit. 1/8c add	5c	4 2/3c	5 5/6c	8 3/4



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WILL PLEASE THE MOST  
**FASTIDIOUS SMOKER**

**ASHLAND, WIS.**

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CHARLES H. CLARK, Manager

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ASHLAND'S LEADING HOTEL

American and European Plan, Hot and Cold  
Running Water, Baths, etc. Brick and Stone  
Structure.

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Prompt and Reliable Delivery

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***445 Ellicott Street***

***BUFFALO, N. Y.***



## Grain Elevators of The Great Lakes

Data Furnished by Fred W. Green

NAME AND LOCATION	Storage Capacity
<b>ALLOUEZ, WIS.</b>	
Itasca . . . . .	1,300,000
<b>BUFFALO, N. Y.</b>	
American Malting, Above Ohio St. Bridge . . . . .	2,500,000
Connecting Terminal, Ship Canal . . . . .	1,000,000
Dakota, Blackwell Canal . . . . .	1,250,000
Electric, Above Ohio St. Bridge . . . . .	2,000,000
Evans, Evans Slip . . . . .	400,000
Exchange, Erie Basin . . . . .	500,000
Export, Buffalo Ship Canal . . . . .	1,000,000
Great Eastern, Buffalo Creek . . . . .	2,500,000
Kellogg (New), Buffalo Creek . . . . .	1,000,000
Marine, Creek and Hatch Slip . . . . .	650,000
Monarch, Evans Slip . . . . .	450,000
Mutual, Buffalo Ship Canal . . . . .	3,000,000
Seaboard, Opposite Main St. . . . .	300,000
Superior, Buffalo Creek above Ohio St. Bridge . . . . .	1,560,000
Union, Buffalo Creek . . . . .	100,000
Wheeler, Buffalo Creek . . . . .	750,000
<b>CHICAGO, ILL.</b>	
(See also South Chicago, Ill.)	
Armour "A" and "B," and Annex North Branch (Division St.) . . . . .	3,300,000
Armour "C," South Branch (Morgan St.) . . . . .	1,000,000
Atlantic, Ogden Canal . . . . .	125,000
Central "A," Entrance to River . . . . .	800,000
Keith, South Branch . . . . .	2,000,000
Minnesota, North Branch (North Ave.) . . . . .	300,000
Rock Island "A," South Branch . . . . .	1,000,000
Rock Island "B," South Branch . . . . .	800,000
Santa Fe, South Branch (27th St.) . . . . .	1,000,000
Union, South Branch (16th St.) . . . . .	1,200,000
Wabash, South Branch . . . . .	1,500,000
<b>CLEVELAND, OHIO</b>	
Cleveland Milling, Above Superior St. Viaduct . . . . .	150,000
Elevator "A," Cincinnati Slip . . . . .	1,000,000
Sherwin-Williams, Above Central Viaduct . . . . .	400,000
Union, Opposite Irish Town Car Dump . . . . .	250,000
<b>COLLINGWOOD, ONT.</b>	
Collingwood Elevator, in Harbor . . . . .	160 000

NAME AND LOCATION	Storage Capacity
<b>DEPOT HARBOR, ONT.</b>	
Grand Trunk .....	1,700,000
<b>DETROIT, MICH.</b>	
Detroit R. R. Elevator, Foot of Hastings St. ....	600,000
Michigan Central "A," Foot of 8th St. ....	500,000
Michigan Central "B," Foot of 12th St. ....	500,000
Union, Foot of 15½ St. ....	1,250,000
Commercial, Foot of Randolph .....	2,250,000
<b>DULUTH, MINN.</b>	
(See also Superior, Wis.)	
Capital .....	1,600,000
"B" and Annex "C" .....	2,000,000
"D" and Annex "G" .....	4,000,000
"E" and Annex "F" .....	2,750,000
"H" .....	1,250,000
Peavey .....	4,000,000
<b>ERIE, PA.</b>	
Erie & Western, Foot of Holland St. ....	1,000,000
<b>FAIRPORT, OHIO</b>	
Fairport Elevator, Grand River .....	1,000,000
<b>FORT WILLIAM, ONT.</b>	
Black & Muirhead, Ltd. ....	100,000
Consolidated, Three Miles from Harbor Entrance .....	1,700,000
Dwyer Elevator .....	100,000
Eastern "A," Three-fourths Mile from Kam. River .....	1,250,000
Fort William "F" on Kam. River .....	1,250,000
G. G. G.—"B," Adjoining Elevator "E" (C. P. R.) .....	500,000
Eastern "C," Annex to C. P. R.—"A" .....	1,250,000
C. P. R.—"D," Kam. and Mission Rivers .....	3,000,000
G. G. G.—"E," 500 Feet Above C. P. R.—"A" (C. P. R.) .....	2,000,000
Empire, Mouth of Kam. River .....	2,000,000
Ogelvies, on the Kam. River .....	1,250,000
Western, on the Kam. River .....	1,000,000
Grand Trunk, Mission River .....	3,250,000
Paterson "O" on Kam. River .....	100,000
<b>GLADSTONE, MICH.</b>	
Soo Line .....	450,000
<b>GODERICH, ONT.</b>	
Transit, in Harbor .....	1,000,000
Elevator "A," South Side of Harbor .....	200,000
Elevator "B" South Side of Harbor .....	600,000



NAME AND LOCATION	Storage Capacity
<b>GREEN BAY, WIS.</b>	
Cargill, Fox River .....	1,750,000
<b>KINGSTON, ONT.</b>	
Commercial, in Harbor .....	350,000
Forwarder's, First in Harbor .....	500,000
Montreal, in Harbor .....	800,000
<b>MANITOWOC, WIS.</b>	
Elevator "A" .....	1,000,000
Elevator "B" .....	2,000,000
<b>MIDLAND, ONT.</b>	
(See also Tiffin, Ont.)	
Midland, West Side of Harbor .....	1,200,000
Tiffin No. 2, Mouth of Wye River .....	2,250,000
<b>MILWAUKEE, WIS.</b>	
Rialto "A," Between C. & N. W. and Broadway Bridges .....	800,000
Rialto "B," Between C. & N. W. and Broadway Bridges .....	1,000,000
St. Paul "A," Elev. "A" Slip .....	1,000,000
St. Paul "B," Menominee River .....	700,000
St. Paul "E," Elevator "E" Slip .....	1,000,000
American Malting .....	
<b>MONTREAL, QUEBEC</b>	
Warehouse "A," on Canal .....	400,000
Elevator "B," on Canal and Annex on Canal .....	2,000,000
Elevator No. 1, Elgin Basin .....	1,000,000
<b>OGDENSBURG, N. Y.</b>	
Bill, Bell & Co., Oswegatchie River .....	90,000
Rutland Transit Co. (Under Construction) .....	
<b>OSWEGO, N. Y.</b>	
Northwestern, West Side of River .....	500,000
<b>PORT ARTHUR, ONT.</b>	
C. N. Ry. "A" and Annex, in Harbor .....	3,750,000
C. N. Ry. "B" and Annex, in Harbor .....	3,250,000
Davidson & Smith, Southwest of C. N. Ry. Coal Dock .....	750,000
Government, S. W. of C. N. Ry. Coal Dock .....	3,750,000
Horn's, in Harbor .....	750,000
Thunder Bay, S. W. of C. N. Ry. Coal Dock .....	1,700,000
<b>PORT COLBORNE, ONT.</b>	
Government Elevator, in Harbor .....	2,000,000
Maple Leaf Milling Co., Ltd. ....	1,500,000

NAME AND LOCATION	Storage Capacity
<b>PORT HURON, MICH.</b>	
Grand Trunk, St. Clair River .....	1,000,000
<b>PORT McNICOLL, ONT.</b>	
C. P. R., East Side of Harbor .....	4,000,000
<b>PRESCOTT, ONT.</b>	
Terminal, St. Lawrence River .....	1,000,000
<b>SANDUSKY, OHIO</b>	
B. & O., in Harbor .....	300,000
<b>SOUTH CHICAGO, ILL.</b>	
(See also Chicago, Ill.)	
Calumet "A," Slip No. 2, Calumet River .....	1,000,000
Calumet "B," Slip No. 2, Calumet River .....	1,000,000
Calumet "C," Slip No. 2, Calumet River .....	1,200,000
Calumet River Elevator, 96th St. ....	350,000
Irondale "A" and "B," Calumet River .....	1,000,000
Keystone, Calumet River .....	1,500,000
Merritt, Calumet River .....	2,250,000
Peavey "A" and "B," Calumet River .....	1,250,000
Rialto "A," 104th St. ....	3,000,000
So. Chicago "C" and Annex, Calumet River .....	1,500,000
So. Chicago "D," Calumet River .....	1,500,000
<b>SUPERIOR, WIS.</b>	
(See also Duluth, Minn.)	
Belt Line, Lower Superior Harbor .....	2,250,000
Globe Nos. 1, 2, 3, Superior Harbor .....	5,000,000
Great Northern "S" and Annex G. N. Slip .....	6,840,000
Terminal "K," Old Town .....	500,000
Terminal "M" and "N," Old Town .....	2,000,000
<b>TIFFIN, ONT.</b>	
(See also Midland, Ont.)	
Aberdeen, in Harbor .....	1,000,000
<b>TOLEDO, OHIO</b>	
C. H. & D. Elevator .....	500,000
East Side Elevator, Maumee and L. S. & M. S. ....	1,500,000
National, Maumee River .....	1,250,000
<b>WALKERVILLE, ONT.</b>	
Hiram Walker & Sons, Ltd. ....	300,000



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ALEX J. BLACK, Proprietor

American Plan Rates \$1.50 Per Day

Steamboat Men's Headquarters

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Rest.....	16,000,000
Undivided Profits.....	1,232,669

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## AMERICAN PLAN

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Rooms with Running Hot and Cold Water  
Bus meets all Trains and Boats  
Bar Stocked with Pure Liquors

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**GENERAL HARDWARE**

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Marine Rope, Shippers of Hay and Oats

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Four whistles will get him any time in day  
Wire will catch your boat any time at night

LAUNCH *MARY C*



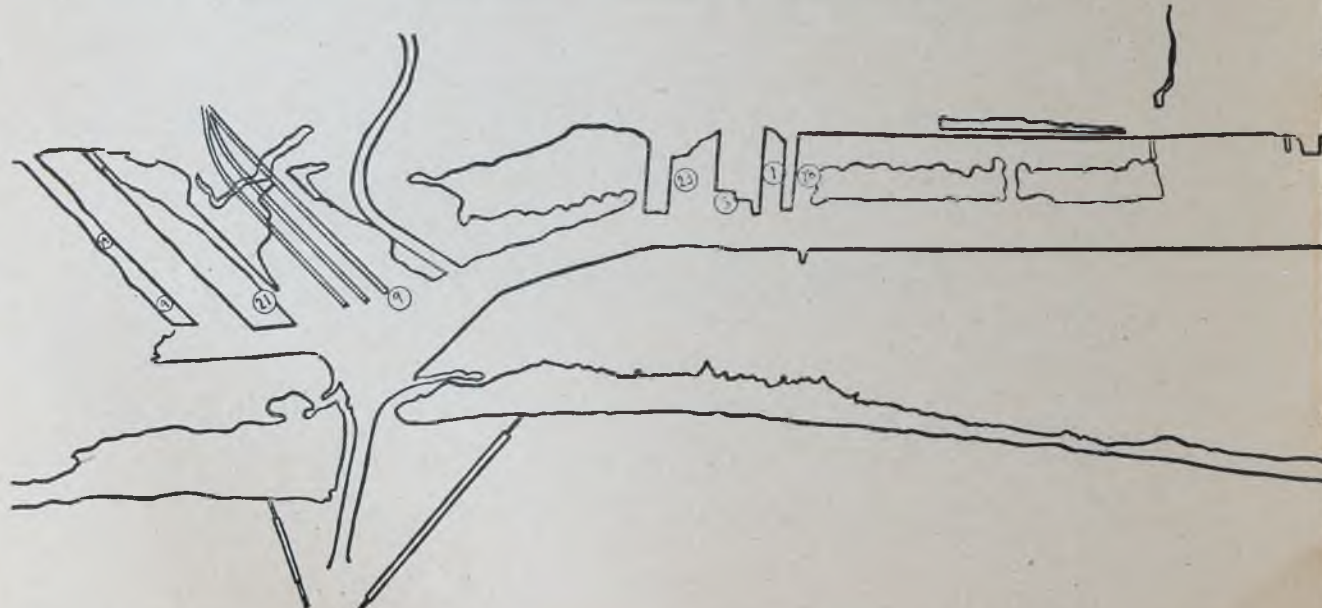
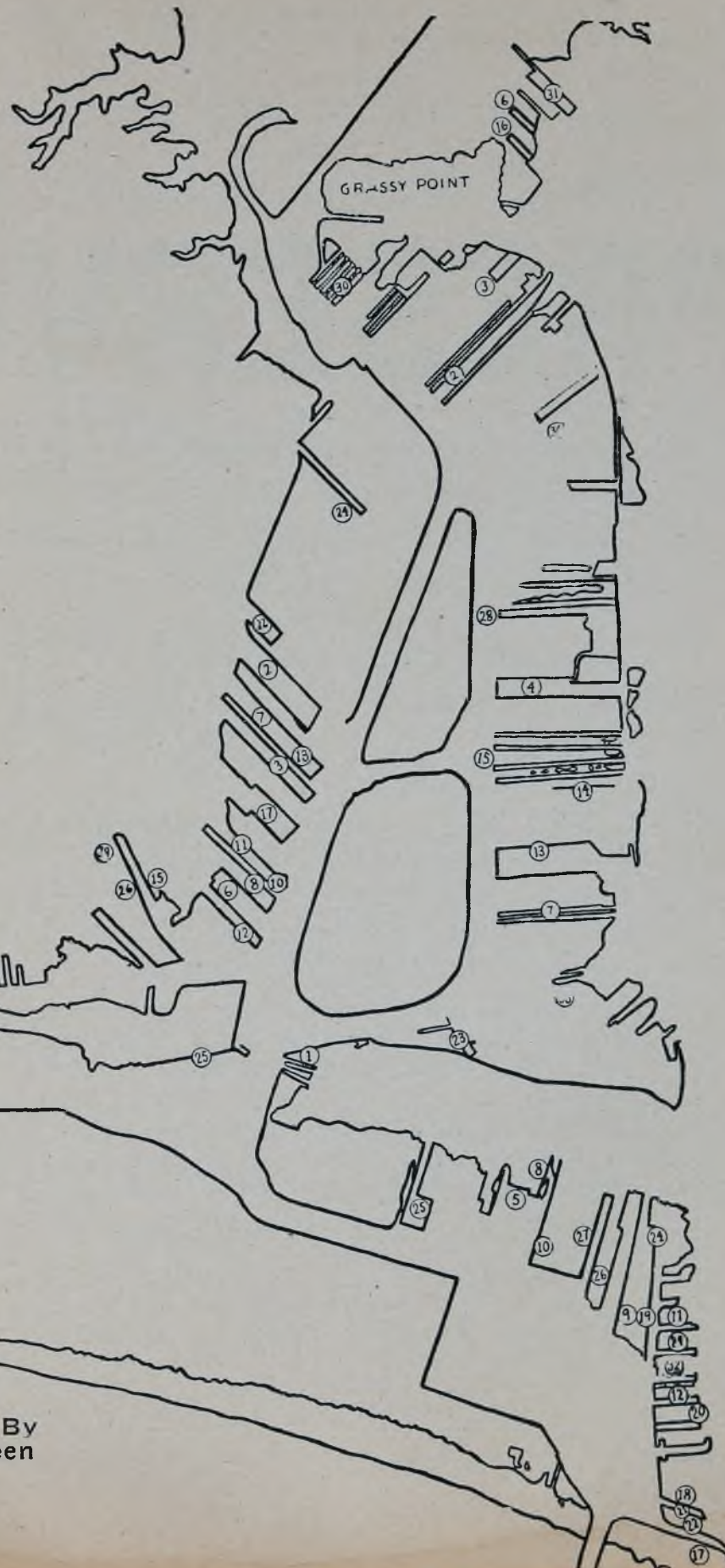
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3. Carnegie Dock & Fuel Co., Dock No. 1.
4. C. M. St. P. & O. Freight Sheds.
5. Daisy Flour Mills.
6. Globe Elevator.
7. Great Lakes Coal & Dock Co.
8. Great Northern, "Elevator."
9. Great Northern, "Ore docks."
10. Great Northern, "Rail dock."
11. 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. Reiss Coal Co., C Dock No. 3.
23. Reiss Coal Co., C Dock No. 4.
24. Soo Line Ore Docks.
25. Sunday Creek Coal 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 Elevator, "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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W. B. ROBESON

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---

who said he knew two tunes—one was "*God Save the Queen*," and the other wasn't.

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Head in, Captain, and we'll show you a service that doesn't lag a minute—an alertness that bespeaks the 1915 spirit—a quickness that forestalls the usual waste of money, time and temper. Just below the tunnel; half mile below Middle Ground; 600 ft. frontage; 21 ft. of water; 3 pockets of 35, 50 and 75 tons each; revolving derrick with ton buckets. Best grades Pittsburg and Youghiogheny three-quarter steam lump. Buckets filled from gravity bins.

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CHICAGO, ILL.



## APPOINTMENTS OF MASTERS OF LAKE VESSELS

List of vessels arranged according to name of Captain.

- Abyssinia (Bge.)—T. K. Woodward.  
 A. D. (Bge.)—Modeste Leboeuf.  
 Adams, Cuyler—W. Stevenson.  
 Adams, Thomas—Thos. Bennett.  
 Adriatic—Frank Randall.  
 Advance—J. V. Norris.  
 Agnes W.—A. C. Wanvig.  
 Agassiz, R. L.—George B. Brock.  
 Agawa—J. A. Brown.  
 Agnew, Wm. C.—Chas. B. Galton.  
 Alabama—W. E. Franklin.  
 Alaska—Joseph E. Mahon.  
 Alberta—Frank J. Davis.  
 Aletha—Jas. Crawford.  
 Alexandria—Wm. Bloomfield.  
 Algonquin—Fred R. Johnston.  
 Allegheny—H. Cronkite.  
 Aloha (Bge.)—W. J. Hayes.  
 Alpena—C. L. Atkinson.  
 Amazon—J. C. Hays.  
 America—A. Mouck.  
 America—E. C. Smith.  
 America—C. J. Hinckley.  
 Americana—Alfred Johnson.  
 Ames, Ward—J. S. Neal.  
 Andaste—W. H. Cousins.  
 Anderson, Alex. (Sch.)—R. Burns.  
 Andrews, Matthew—Jos. Lampoh.  
 Angeline—F. D. Perew.  
 Ann Arbor 3—Chas. E. Robertson.  
 Ann Arbor 4—Alex L. Larson.  
 Ann Arbor 5—B. F. Tulledge.  
 Arcturus—J. L. Weeks.  
 Arenac (Bge.)—R. D. Taylor.  
 Argo—W. U. Randall.  
 Ariel—W. H. Carr.  
 Arizona—C. C. Fowler.  
 Arizona—T. Lindale.  
 Arrow, W.—Harry Fyrie.  
 Arthur (Bge.)—Knut Pederson.  
 Arthur (Sch.)—J. H. Peacock.  
 Ashland (Bge.)—J. P. Johnson.  
 Ashley, J. S.—M. G. McIntosh.  
 Ashtabula—B. T. Hagenson.  
 Assiniboia—James McCannel.  
 Athabasca—John B. Currie.  
 Athens (Bge.)—Chas. Ryckman.  
 Atikokan—W. J. Brown.  
 Augustus (Bge.)—T. L. Leduc.  
 Augustus, A. A.—E. Detlefs.  
 Aurora (Bge.)—Louis Fox.  
 Averell—John Smith.  
 Bacon, Melvin S. (Sch.)—Wm. McQuinn.  
 Baker, Geo. F.—George Bell.  
 Ball, Frank C.—E. Warwick.  
 Barlum, John J.—A. J. Mahon.  
 Barlum, John J. (Bge.)—Alex Sharrow.  
 Barlum, Thomas—R. A. Cain.  
 Barnum—Peter Green.  
 Barth, L. L.—John Hayes.  
 Bartow, J. H.—A. E. White.  
 Beard, James—Geo. Waugh.  
 Beattie, Chas. S.—H. McKenzie.  
 Beaverton—O. Patterson.

- Bell, Isaac L.—J. H. Denner.  
Belleville—Jos. Rinfret.  
Bennington—W. S. Shay.  
Berry, B. F.—C. C. Balfour.  
Berwind, Harry A.—Wm. Landon.  
Bessemer, Sir Henry—A. Montague.  
Bethlehem—Archie A. McMaugh.  
Bielman, C. F., Jr. (Mail Boat)—J. Flaherty.  
Binghamton—R. B. Wilkinson.  
Bixby, W. K.—S. B. Worden.  
Black, Geo. A.—F. D. Selee.  
Block, Joseph—A. A. Clarke.  
Bloom, Nelson (Bge.)—H. N. Jex.  
Boland, John J.—John A. Montgomery.  
Bon Ami—Wm. Betts.  
Booth, E. L.—J. H. Madden.  
Bope, H. P.—J. H. Lowes.  
Boston—S. R. Jones.  
Bottsford, R. (Bge.)—A. D. Sheldon.  
Boucherville—A. Laviolette.  
Boyce, Geo. J. (Sch.)—N. J. Norman.  
Bradley, M. A.—H. Winkler.  
Brainard, Katie (Bge.)—George Horne.  
Bransford—Wm. Lohr.  
Brazil—A. McCloud.  
Briton—Chester Massey.  
Brockville—D. B. Christie.  
Brown, Harvey H.—D. Girardin, Jr.  
Brown, J. J. H.—S. A. Rand.  
Brown, W. L.—W. W. Eger.  
Brownell, G. F.—C. W. Watson.  
Bryn Mawr (Bge.)—Geo. P. Kendall.  
Buckley, Edward—Fred Gunderson.  
Buell, F. R.—Hugh O'Hagan.  
Buffalo—John Kennedy.  
Buffington, E. J.—Richard Jollie.  
Bunsen, R. W. E.—S. E. Meeker.  
Burke, D. J. (Tug)—B. Nicholas.  
Burlington—Geo. Kinch.  
Burma (Bge.) W. Leduc.  
Butler, Jos. G., Jr.—James Murphy.  
Butters, Marshall F.—C. E. McClure.  
Byers, A. M.—A. Craigie.  
Cadwell—Jos. Bassett.  
Calcite—J. W. Parsons.  
Caldera—C. S. Ellis.  
Calgary—J. H. Solery.  
Calumet—E. D. Ballentine.  
Canadiana—Geo. S. Riley.  
Canisteco—Geo. Snook.  
Canobie—L. Pregent.  
Canopus—A. R. Beall.  
Caribou—A. A. Batten.  
Carleton—E. Groulx.  
Carolina—D. J. McGarity.  
Carrington—H. M. Saveland.  
Carter, E. D.—C. H. Wilson, Sr.  
Carter, W. J.—O. T. Oleson.  
Cascapedia—John Hearn.  
Case—W. J. Willoughby.  
Case, J. I. (Bge.)—Theo. Birkland.  
Caspian—John J. Jarrell.  
Castalia—W. L. Girardin.  
Centurion—P. A. Anderson.  
Cepheus—George Dupuie.  
Cetus—B. F. Ogden.  
Chamberlin, C. W.—B. W. Morgan.



- Champlain—F. A. Dupuis.  
 Chattanooga (Sch.)—M. P. Tufveson.  
 Cherokee—J. C. Garey.  
 Chicago—Henry Murphy.  
 Chicago—Geo. Brookhyser.  
 Chickamauga (Bge.)—G. Mackie.  
 Chief Wawatam—Capt. Robertson.  
 Chinock—Paul Gagne.  
 Chipman, Susie—N. A. Gunderson.  
 Chippewa—Wm. McCarty.  
 Chrisholm, Alva S., Jr.—A. Geisendorfer.  
 Choctaw—Charles Fox.  
 Christie, T. S.—Hans Hansen.  
 Christopher—W. E. Wright.  
 Christopher Columbus—C. E. Moody.  
 City of Alpena II—John Lightbody.  
 City of Bangor—A. M. Williams.  
 City of Benton Harbor—A. J. Simons.  
 City of Berlin—John T. Hanson.  
 City of Buffalo—W. H. Smith.  
 City of Cheboygan—A. R. Graves.  
 City of Cleveland III—E. Hayward.  
 City of Detroit III—F. J. Simpson.  
 City of Detroit II—S. O. Robinson.  
 City of Erie—Ed. S. Pickel.  
 City of Grand Rapids—M. F. Morgan.  
 City of Mackinac II—Lee DeNike.  
 City of Marquette—Roland D. Hill.  
 City of Midland—J. D. Montgomery.  
 City of Naples—P. F. Powrie.  
 City of Sheboygan—Hans Peterson.  
 City of South Haven—F. A. Dority.  
 City of St. Ignace—John Hyatt.  
 City of St. Joseph—Oscar Bjork.  
 City of Toledo—John Stover.  
 Clement, S. M.—J. W. Galton.  
 Clinton—Mike Hetrick.  
 Codorus—F. Pardee.  
 Cole, Thomas F.—M. K. Chamberlain.  
 Collinge—Frank Peterson.  
 Collingwood—F. Scott.  
 Colonel—William K. Nesbitt.  
 Commodore (Bge.)—Frank Desot.  
 Compton—B. Bowen.  
 Conemaugh—J. Lehan.  
 Congdon, Chester A—C. Autterson.  
 Conger, O. D.—W. S. Major.  
 Congercoal—Chas. Wakely.  
 Constitution (Bge.)—P. A. Mallette.  
 Cooke, Delos W.—John C. Clarke.  
 Coralia—David Bouille.  
 Corey, Wm. E.—H. G. Harbottle.  
 Corliss, Geo. (Bge.)—H. M. White.  
 Cornelius, A. E.—James G. Herbert.  
 Cornell—A. C. Smith.  
 Corning, Ida (Bge.)—Alfred Keller.  
 Corrigan—J. R. Hesson.  
 Corsica—Severn Nelson.  
 Cort, Henry—Geo. Lane.  
 Corvus—A. W. Holmes.  
 Craig, Geo. L.—D. J. Duncanson.  
 Crawford, (Tug)—W. M. Tyson.  
 Crawford, G. G.—W. C. Iler.  
 Crawford, W. D.—B. M. Landfair.

- Crerar, John—Chas. Bennett.  
Crescent City—H. Culp.  
Crete—Wm. A. Williams.  
Crosby, E. G.—F. Richardson.  
Crowe, G. R.—J. H. Hudson.  
Curry, S. S.—W. R. Neal.  
Cutler, D. G. (Bge.)—Carl Jorgenson.  
Cygnus—Robert Recor.  
Dahlke, H.—Frank Butler.  
Dalhousie City—J. W. Maddich.  
Dalton, H. G.—Fred C. Hector.  
Davidson, A. D.—Chas. W. Babb.  
Davidson, James E.—W. C. Jones.  
Davidson, Louis R.—Hugh McCann.  
Davock, Wm. B.—J. M. Duddleson.  
Dayton (Bge.)—R. Briggs.  
Delaware—F. Blum.  
Delta (Bge.)—John Bates.  
Derbyshire, Senator—A. Patenaude.  
Detroit—R. Aiken and F. A. Huntoon.  
Dickson, Wm. B.—W. H. Moody.  
Dimmick, J. K.—Wm. Jagenow.  
Dinkey, Alva C.—W. J. Hunt.  
Dobbins, D. P. (Bge.)—T. McEwan.  
Donaldson, J. A.—Thomas Beggs.  
Donaldson, J. P.—Chas. Rattray.  
Donner, W. H.—O. J. Soleau.  
Dormer, Grace—Eugene Goodwin.  
Drummond, Thos. J.—A. McIntyre.  
Duluth—H. S. Dennis.  
Dunham, James S—Frank C. Pratt.  
Dunmore (Bge.)—I. Deoust.  
Dwyer, W. H.—J. P. McLeod.  
Eads, James B.—J. C. Bell.  
Earling, E. J.—D. C. Sullivan.  
Eastern States—Dan McKay.  
Eastland—H. Pederson.  
Easton—D. N. Laroche.  
Easton—Gustave Ege.  
Eddy Selwyn—John Larson.  
Edenborn, Wm.—F. J. Cullen.  
Edmonton—H. Maitland.  
Edwards, J. R. (Bge.)—Roy Touseley.  
Elba—C. H. Woodford.  
Ellwood, Sir Isaac—G. H. Bowen.  
Elphicke, Mary C.—J. T. Auttersson.  
Elva—J. H. Stewart.  
Empire City—C. S. Boyce.  
England, R. W.—E. W. May.  
Ericsson, John—P. H. Dunn.  
Ewen, F. D. (Bge.)—Aime Monette.  
Fairbairn, Sir Wm.—Allen Collins.  
Fairmont—Wm. Liddell.  
Farrell, James A.—F. A. Bailey.  
Fassett, T. S.—Thos. Quinn.  
Filbert, Wm. J.—A. J. Talbot.  
Filer, D. L. (Bge.)—John Matteson.  
Fillmore, C. J. (Bge.)—J. Haggerty.  
Fisher, E. L.—Geo. L. Cottrell.  
Fitch, W. F.—R. D. Peltier.  
Fitzgerald, Wm. E.—A. C. Callam.  
Flogg, G. A.—A. H. Hartman.  
Follette, James W.—Chas. D. Bennett.  
Ford, J. C.—Norman Maguire.  
Ford River (Sch.)—Chauncey Daryaw.  
Foster, I. N.—Eli Olsen.  
Franz, W. C.—W. C. Gordan.



- French, G. Watson—J. M. Brines.  
 Frick, Henry C.—W. H. Kilby.  
 Fritz, John (Bge.)—R. Thompson.  
 Frontenac—H. A. Murphy.  
 Fryer, Robt. L. (Bge.)—Emil  
 Christin.  
 Fulton, Robert—George Reece.
- Garden City—J. Blanchard.  
 Garretson, Gen.—E. R. Morton.  
 Gary, E. H.—George Holdridge.  
 Gates, John W.—J. Noble.  
 Gaun, Thomas—Julius Lawrence.  
 Genoa (Bge.)—C. J. Garlock.  
 Georger, F. A. (Sch.)—Samuel  
 Leboeuf.  
 Georgia—M. D. Mackey.  
 German—H. W. McEwen.  
 Germanic—F. G. Moles.  
 Gettysburg—Capt. Gonyaw.  
 Gill, Alice M.—J. M. Peterson.  
 Gladys, H. (Bge.)—Leonel Leduc.  
 Glenfinnan—Walter Linton.  
 Glenfoyle—Wm. Taylor.  
 Glenlivet—F. Barloe.  
 Glenmavis—James Dix.  
 Glenmount—H. Peters.  
 Glenyon—A. Hudson.  
 Glenshee—Wm. Levifue.  
 Godfrey, J.—A. C. Louden.  
 Gogebic—C. L. McDougall.  
 Golden Age (Bge.)—G. E. Nelson.  
 Gould, Jay—C. T. Clarke.  
 Goulder, Harvey D.—H. Davidson.  
 Graham, George A.—P. McIntyre.  
 Grammer, G. J.—Thomas Burns.  
 Grand Haven—Thomas Trail.  
 Green, C. H.—J. F. Sheehan.  
 Greene, M. T.—L. F. LaFey.  
 Griffin—Wilson MacGregor.  
 Groh, Mary—Edward Ohlemacher.  
 Gunnell, E.—Edwin Curran.
- Hagarty, J. H. G.—Samuel Hill.  
 Hall, Henry B.—D. A. Kiah.  
 Hall, Stephen C.—Grant Horne.  
 Hamilton (Bge.)—A. Hebert.  
 Hamonic—A. L. Campbell.  
 Hanna, Howard M., Jr.—John Bab-  
 bitt.  
 Hanna, D. R.—S. B. Massey.  
 Hanna, L. C.—George McGarry.  
 Hart, Eugene C.—Jno. G. Mc-  
 Carty.  
 Hart, F. W.—W. S. Ritchie.  
 Hartnell, George E. (Bge.)—W. J.  
 Pizer.  
 Hartwell, Fred G.—Wm. Maltby.  
 Hausler, M. G.—Walter Campbell.  
 Harvard—C. A. Weitzman.  
 Harvester, The—Wm. Smith.  
 Harvey—M. A. Larrabee.  
 Haskell—E. A. Dubrule.  
 Hawgood, H. B.—A. C. May.  
 Hazard, Wm. A.—Jas. Cottrell.  
 Hebard, Chas. S.—C. H. Francke.  
 Heffelfinger, F. T.—T. N. Conlin.  
 Heiden, Charles—Daniel MacFar-  
 lane.  
 Helen, C.—Wm. C. Zeim.  
 Helvetia (Bge.)—Olaf Steffensen.  
 Hemlock—L. J. Lavelly.  
 Hennepin—Jos. A. Brownell.  
 Hettler, Herman H.—R. T. Evans.  
 Hill, J. J.—A. C. Hansen.  
 Hilton—W. Hamilton.  
 Hinckley—A. R. Hinckley.  
 Hines, L. Edward—K. McKenzie.  
 Holland, N. C. (Bge.)—J. W. Hall.  
 Holley, Alexander (Bge.)—Chas.  
 L. Wilson.  
 Holmes, E. F.—C. D. Brown.  
 Hoover & Mason—W. C. Brown.  
 Horn, Chas.—Cris Edwardsen.

- Houghton, Douglas—J. T. Gemmel.  
House, F. E.—J. F. Parke.  
Howe, Geo. C.—Frank P. Russell.  
Hoyt, James H.—G. A. MacAulay.  
Hubbard, C. Russell—H. S. Lyons.  
Huron—W. D. McClinton.  
Huron—W. H. Yates.  
Huron—M. Bansette & O. Lalonde.  
Huron—A. T. May.  
Huron City—J. E. Reynolds.  
Huronic—A. M. Wright.  
Hutchinson, Chas. L.—Frank P. Powell.  
Hutchinson, J. T.—J. H. Smith.  
Illinois—J. Stufflebeam.  
Imperial—H. C. Mimms.  
Imperoyal—N. Scott.  
India—C. Beaupre.  
Indiana—J. A. Wilson.  
Indus—W. B. McDonald.  
Inland—Robt. Laing.  
Interlaken (Bge.)—Carl Johnson.  
Iocoma—G. T. Cross.  
Ionic—O. M. Wing.  
Ireland, Robert L.—J. W. Ehrhart.  
Iron Cliff (Bge.)—Alex Sharrow.  
Iroquois—D. A. Kennedy.  
Isabella H. (Bge.)—A. C. Nelson.  
Iselin, Adrian—D. Hourigan.  
Ishpeming—C. A. Anderson.  
Islander—Frank McCarty.  
Jackson, G. K. (Bge.)—John Joyce.  
Jenkins, Chas. O.—F. B. Chilson.  
Jenks, J. M.—W. A. Ashley.  
Jenney, W. L. (Bge.)—Donald Graham.  
Jessie—Hiram Welcher.  
Jex, H. N.—T. Emig.  
Jones, B. F.—R. W. England.  
Jones, F. P.—H. M. Russell.  
Judd, E. T. (Bge.)—R. W. Jex.  
Juniata—E. McKenzie.  
Jupiter—J. N. Morrison.  
Kalkaska—Frank Elliott.  
Kaministiquia—E. L. Stephen.  
Kansas—J. Thorpe.  
Katie H. (Bge.)—Jos. Poirier.  
Kearsarge—Wm. Baxter.  
Keefe, J. S.—Dan Barry.  
Keewatin—Malcolm McPhee.  
Kelley Island—E. B. Senior.  
Kelley, Morman (Bge.)—W. Hannel.  
Kendall, Harvey J.—H. J. Kendall.  
Kennedy, Hugh—Harvey Stewart.  
Kensington—David Elliott.  
Kerr, D. G.—T. A. McDougall.  
Ketcham, J. B. II—A. Foote.  
Keybell—J. Murray.  
Keynor—James Martin.  
Keyport—Jno. Mullin.  
Keyvive—Geo. Bunting.  
Keywest—A. Barrett.  
King, George—W. E. Smith.  
King, W. L.—Fred Reid.  
Kinmount—J. Wood.  
Kirby, Frank E.—Fred H. Pauls.  
Kirby, S. R.—Oliver Pitts.  
Knapp, F. M. (Bge.)—John Booth.  
Kopp, Jacob T.—James Hefferman.  
Kotcher, Chas. W.—J. B. Rinn.  
Krupp, Alfred (Bge.)—P. Gustofson.  
LaBelle—G. D. Tulian.  
Lackawanna—James Healy.



- Lakeland—Alex McCowan.  
 Lake Michigan—T. Heffernan.  
 Lakeport—R. H. Knapp.  
 Lakewood—J. C. McLean.  
 Lambert, John—Emmett Quack-  
   enbush.  
 Langell, Simon—Guy Gue.  
 Langell Boys—Bert Payea.  
 Landsdowne—H. Oldenburg &  
   Jno. Jackson.  
 LaSalle—G. A. Montgomery.  
 Laughlin, James—M. G. Allen.  
 Laurentian—Jos. Boucher.  
 Lehigh—Murray Bostwick.  
 Leopold, N. F.—Joseph Matthews.  
 Lewiston—O. Nelson.  
 Linden—Wm. J. Cowles.  
 Linn, Wm. R.—J. N. Rolfson.  
 Little, C. H.—W. J. Ames.  
 Livingston—H. Oertling, Jr.  
 Livingston, Wm.—Chas. Tousley.  
 Lozen, J. B. (Bge.)—J. F. Lozen.  
 Lupus—E. A. Evanson.  
 Luzon—W. W. Wilkins.  
 Lynch, Thomas—J. Nahrstedt.  
 Lyon Chas.—Wm. Henry.  
  
 McCullough, J. G.—Robert B. Wil-  
   kinson.  
 McDougall, Alex—H. D. McLeod.  
 McGregor, Mary A.—G. F. For-  
   rest.  
 McIntosh, H. P.—L. S. Tilden.  
 McKee, J. A.—H. C. Wingrove.  
 McKerchey, John M.—Wm. Mc-  
   Guire.  
 McKinney, Price—E. C. Van Pat-  
   ten.  
 McVea, Charles—N. W. Napier.  
  
 Mack, Wm. S.—Wm. Ferguson.  
 MacTier, A. D.—S. V. Anderson.  
  
 Magna (Bge.)—A. S. Hand.  
 Mahoning—A. McKenzie.  
 Maia (Bge.)—Arnold Nordahl.  
 Maida (Bge.)—Wm. McDonald.  
 Maitland, A. (Bge.)—S. Brines.  
 Majestic—J. D. Montgomery.  
 Major—U. Carson.  
 Malietoa—H. T. Kelley.  
 Manchester, G.—Everett Zwemer.  
 Manda (Bge.)—Charles Gordon.  
 Manila (Bge.)—Geo. J. Maloney.  
 Manistique—W. C. Sparling.  
 Manitoba—John McIntyre.  
 Manitou—W. F. Finucan.  
 Manitou—N. J. McCoy.  
 Manola—E. F. Barnard.  
 Marcia (Bge.)—C. G. Benson.  
 Maricopa—G. M. Ackley.  
 Marion—F. O. Johnson.  
 Mariposa—Geo. Ames.  
 Maritana—Chas. Thrasher.  
 Marquette & Bessemer No. 1—M.  
   M. Rowan.  
 Marquette & Bessemer No. 2—  
   John Van Buskirk.  
 Marsala (Bge.)—James N. Ames.  
 Marshall, A. M.—T. B. Greenway.  
 Marshall, Samuel—W. A. Tulloch.  
 Martha (Bge.)—George Young.  
 Maruba—W. C. Reid.  
 Mary—John Pearson.  
 Maryland—Timothy Kelley.  
 Masaba—J. A. Smith.  
 Mataafa—A. R. Thomson.  
 Mather, Samuel (Small)—J. A.  
   Smith.  
 Mather, Samuel—L. W. Stone.  
 Mather, Wm. G.—F. A. West.  
 Matthews, Jennie—Jos. Mills.  
 Matthews, W. D.—Wm. Cunning-  
   ham.

- Mauch Chunk—C. S. Furey.  
Maunaloa—Geo. Burt.  
Maywood—W. E. Hill.  
Meacham, D. B.—B. J. Gallagher.  
Meaford—W. A. Richmond.  
Mecosta—W. E. Moore.  
Melrose (Bge.)—L. Benoit.  
Mercur, Fred—Sidney LeBeau.  
Merida—H. L. Jones.  
Michigan—T. E. Murray.  
Michipicotin—E. Raber.  
Middlesex (Sch.)—Henry Brock.  
Milinokett—W. G. Rogers.  
Miller, Leonard B.—Wm. Hagan.  
Miller, P. P.—Frank Weinheimer.  
Mills, David W.—Dan Warwick.  
Mills, D. O.—James Jackson.  
Mills, Robert—J. S. Shackett.  
Milwaukee—C. A. Lyman.  
Minch, Anna C.—J. W. Kelley.  
Minch, Phillip—H. W. Stewart.  
Minch, Sophia (Bge.)—Thos. McEwen.  
Mingoe (Bge.)—Peter Keischgens.  
Minneapolis—R. C. Patterson.  
Minnesota—G. Johnson.  
Missouri—W. A. Bright.  
Mitchell, Forster W. (Sch.)—Arthur Lake.  
Mohegan—James Cunningham.  
Moll, C. F.—William Burns.  
Montreal—F. X. La France.  
Moore, W. K. (Bge.)—J. Thody.  
Morden, R. Grant—N. Campbell.  
Morgan, J. P.—John Burns.  
Morgan, J. P., Jr.—C. Gegenheimer.  
Morrell, D. J.—P. L. Millen.  
Morrow, Joe S.—Gec. W. Hayward.  
Morse, S. F. B.—U. P. McElroy.  
Morse, J. C.—A. H. Reed.  
Mullen, Martin—Jas. F. Goodwin.  
Muncy—F. Nelson.  
Munro, J. C.—Alex Johnston.  
Murphy, Simon J.—A. W. Burrows.  
Nasmyth, James (Bge.)—Wm. H. Dick.  
Neebing—John Ewart.  
Neff, Chas. F.—John A. Doak.  
Neff, Signey O.—John Messner.  
Neilson, James B.—F. W. Light.  
Neptune—Kenneth McRae.  
Nessen, N. J.—John Eble.  
New Island Wanderer—W. C. Hudson.  
Niagara—Patrick Williamson.  
Niko—Ralph Meyers.  
Normandie—Ralph Pringle.  
Normania—C. W. Willett.  
Noronic—R. D. Foote.  
Norris, Alice B. (Bge.)—J. O. Roberson.  
Northern King—W. H. Stevenson.  
Northern Light—Peter Hay.  
Northern Queen—George B. Crawford.  
Northern Wave—Neil Anderson.  
North American—Geo. M. Cummings.  
North Lake—Peter Thompson.  
Northmount—J. Sutherland.  
North Sea—E. C. Leath.  
North Star—E. B. Blair.  
North Wind—Thomas Stevenson.  
Norton, D. Z.—Richard Call.  
Norwalk—Frank Goodrow.  
Nye, Harold B.—C. L. Seelye.  
Oades, John—H. M. Boyce.  
Oak Leaf (Bge.)—Ernest Bohn.



- Octorara—J. Martin.  
 Odanah—A. M. Jenkyn.  
 Ogdenburg—W. S. McQueen.  
 Ogemaw—W. E. Pierce.  
 Oglebay, E. W.—Chas. A. Mohr.  
 Ohl, E. N.—A. A. Morrison.  
 Olcott—J. C. Fox.  
 Olcott, W. J.—A. R. Robinson.  
 Omega—M. W. Humphrey.  
 137 (Bge.)—Ivar Larson.  
 Onoko—Wm. R. Dunn.  
 Ontario—J. Carney.  
 Ontario—W. A. DeLand.  
 Orr, Arthur—John Simons.  
 Ort George N.—Herman Jaenke.  
 Orton, M. E.—H. McAuley.  
 Osborn, Chas. S. (Tug)—Walter Pringle.  
 Osborn, A. W.—W. F. Gardner.  
 Osborn, Frank C.—John E. MacIntosh.  
 Osler, E. B.—C. E. Robinson.  
 Ossifrage—T. J. Stockwell.  
 Owego—W. M. Cottrell.  
 Owen, G. B. (Bge.)—J. H. Trudo.  
 Owen, John—Otto Gentz.  
 Pahlow, Louis—J. F. Higgle.  
 Paine, Wm. A.—U. S. Cody.  
 Paipoonge—J. N. Foote.  
 Paliki—R. G. Bassett.  
 Palmer, Wm. P.—A. P. Chambers.  
 Panay—C. H. Wilson, Jr.  
 Parent, S. N.—Frank H. Johnson.  
 Parks, O. E.—L. A. Ellis.  
 Pathfinder—P. A. Peterson.  
 Pawnee—James Cassin.  
 Peavey, Frank H.—W. Chamberlain.  
 Pellatt, H. M.—Wm. Kelley.  
 Penobscott—Wm. Stevenson.  
 Pentland—A. R. Dickson.  
 Pere Marquette—Esten Bahle.  
 Pere Marquette 3—H. L. Hoxie.  
 Pere Marquette 4—D. Magnes.  
 Pere Marquette 5—H. C. McCannly.  
 Pere Marquette 6—John Smith.  
 Pere Marquette 7—W. H. Van Dyke.  
 Pere Marquette 8—Michael Martin.  
 Pere Marquette 17—W. H. LaFleur.  
 Pere Marquette 18—J. C. Ackerman.  
 Pere Marquette 19—J. G. Crawford.  
 Pere Marquette 20—Neil MacIsaac.  
 Perkins, Geo. W.—W. S. Hoag.  
 Perseus—James B. Lyons.  
 Petoskey—W. J. Petoskey.  
 Phenix—Henry Russell.  
 Philbin, D. M.—A. R. Morse.  
 Philippe, Louis—A. Mandeville.  
 Phipps, Henry—R. F. Humble.  
 Plankinton, John—W. J. Mackin.  
 Poe, General O. M.—Geo. McCallum.  
 Pollack, W. G.—George Swails.  
 Polynesia—A. E. McGregor.  
 Pontiac—W. T. Mooney.  
 Pope, E. C.—R. M. Leonard.  
 Port Colborne—W. Steenes.  
 Port Dalhousie—J. Napier.  
 Powell, L. G.—Thos. Fowler.  
 Prentice, J. H.—H. Brown.  
 Presque Isle—J. A. Stewart.  
 Princeton—Geo. Randolph.  
 Purcer—D. Kennedy.  
 Puritan—J. M. Crawford.  
 Put-In-Bay—A. J. Fox.

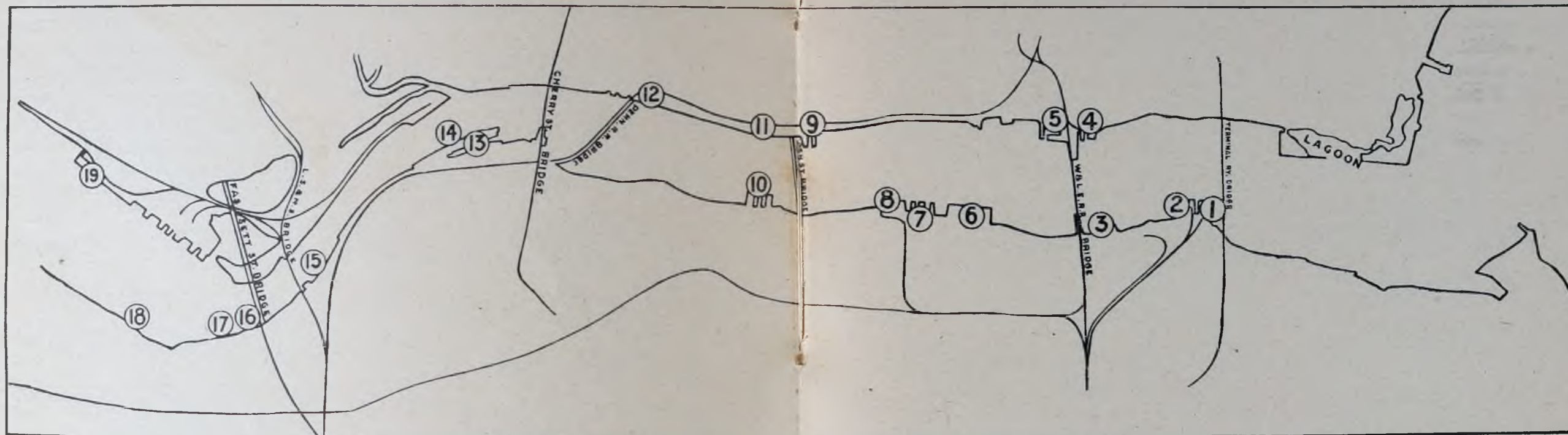
- Quebec—L. R. Demers.  
Quebec (Bge.)—Wm. Lalonde.  
Queen City—E. L. Sawyer.
- Racine—J. Chambers.  
Ramona—E. M. Charlebois.  
Ranney, Rufus P.—C. R. Baker.  
Rapids Prince—Geo. Batten.  
Rapids Queen—J. P. Stephenson.  
Ream, Norman B.—C. J. Grant.  
Recor, E. P.—O. E. Meyers.  
Redfern, C. E. (Bge.)—Eli Jacques.  
Redington, Nellie (Bge.)—John Thurston.  
Reed, J. H.—Nelson Brown.  
Rees, W. D.—L. J. Francis.  
Reiss, John P.—Jas. Donner.  
Reiss, Peter—C. P. Hahn.  
Rensselaer—J. A. Ferguson.  
Republic—H. Wendorf.  
Reserve—M. Lightbody.  
Rhodes, J. W.—F. N. Watts.  
Rhodes, R. R.—W. H. Ransom.  
Rhodes, W. C.—Walter Robinson.  
Richardson, G. A.—J. C. Hearney.  
Robbins, F. L.—D. M. Post.  
Robbins, S. H.—John Milne.  
Roberts, Percival, Jr.—S. C. Allen.  
Roberval—P. Eligh.  
Robinson, Lucius W.—Wm. A. Russell.  
Rochester—Edw. E. Taylor.  
Rochester—D. Gillies.  
Rockefeller, Frank—Daniel Murphy.  
Roebing, John A. (Bge.)—W. F. Cottrell.  
Rogers, H. H.—F. Rice.  
Rogers, W. A.—J. L. McIntosh.  
Rolph, John—Arthur Cousins.  
Roman—Wm. Milliken.
- Roosevelt, Theodore—D. MacLean.  
Rosemount—Geo. Graham.  
Roumania—Carl Carlson.  
Rugee, John—John J. Powers.  
Runnels, H. E.—Sam Christopher.  
Rutland—Fred Lovesless.
- St. Clair—Geo. Trimble.  
St. Irene—Wilfrid Gagne.  
St. Joseph—James Birmingham.  
St. Lawrence—John Bertrand.  
St. Paul—Iver Rolseng.  
Sachem—Geo. H. Ferguson.  
Sagamore (Bge.)—John Ohman.  
Saguenay—Jos. Simard.  
Sands, Isabella (Bge.)—M. McDonald.  
Santiago (Bge.)—A. Mills.  
Saranac—Henry Durker.  
Saunders, E. N.—Samuel Sexsmith.  
Saunders, W. B. (Tug)—James McKinley.  
Sawyer, Philetus—S. Anderson.  
Sawyer, W. H.—W. Canartney.  
Saxon—H. J. Clegg.  
Saxona—W. S. Carloss.  
Schiller, Wm. B.—J. La Francoise.  
Schleisinger, Ferd—E. H. Brownell.  
Schoolcraft—B. McCaffrey.  
Schuylkill—J. McDonald.  
Scranton—W. W. Shorkey.  
Selkirk (Bge.)—C. Leboeuf, Sr.  
Senator—Charles W. Ernest.  
Seneca—J. D. Greene.  
Shaughnessy, Sir Thomas—N. B. Roach.  
Shaw, Howard L.—G. H. Banker.



- Shaw, Q. A.—M. M. Stewart.  
 Sheadle, J. H.—S. A. Lyons.  
 Shenango—J. F. Jones.  
 Sherman, W. A. (Sch.)—Geo. Abbott.  
 Sherwin, John—P. M. Cartwright.  
 Sicken, M.—John Kuhn.  
 Siemens, Sir Wm.—T. F. Zealand.  
 Sierra—G. Warwick.  
 Simla—C. Coons.  
 Sinaloa—H. Stevenson.  
 Sindbad—J. C. McCarty.  
 Sirius—Andrew Cowie.  
 Smeaton, John (Bge.)—J. R. Parker.  
 Smith, Edward—C. D. Miller.  
 Snyder, Wm. P.—F. H. Ott.  
 Snyder, Wm. P., Jr.—T. H. Sanders.  
 Sonoma—J. MacDonald.  
 South American—C. M. Haight.  
 Spalding, Jessie—L. A. Garn.  
 Spokane—A. W. Henry.  
 Squire, F. B.—George Atkinson.  
 Stackhouse, Powell—Wm. Megarvey.  
 Stanstead—D. McLachlan.  
 Stanton, John—C. A. Benham.  
 State of New York—W. S. Kenyon.  
 Steelton—W. J. Kirkwood.  
 Steinbrenner, H.—D. M. Crooker.  
 Stephenson, George—A. C. Moser.  
 Stephenson, I. Watson—L. H. Strahan.  
 Stephenson, S. M.—James Sanford.  
 Stewart, Albert E.—James McCarthy.  
 Stewart, A. (Bge.)—Fred Chamberlain.  
 Stone, Amasa—William A. Reed.  
 Stormount—Jas. Reoch.  
 Sullivan, J. J.—Wm. P. Benham.  
 Sultana—R. J. Reid.  
 Superior—F. D. Osborne.  
 Superior City—W. E. Warner.  
 Susquehanna—J. Donahue.  
 Tadousac—Jos Dugal.  
 Taurus—D. B. Elsey.  
 Taylor, J. Frater—R. H. Boyle.  
 Teutonia (Bge.)—Harry Lawrence.  
 Thomas, Sidney G. (Bge.)—John Brown.  
 Thompson, A. W.—R. Neville.  
 Thompson, A. W. (Bge.)—F. C. Hart.  
 Thousand Islander—C. H. Kendall.  
 Three Rivers—A. Mondor.  
 Tilden, S. J. (Bge.)—Ole Steffensen.  
 Tionesta—J. Dougherty.  
 Toiler—T. McMann.  
 Tokio (Bge.)—W. U. Wood.  
 Toltec—Geo. J. Sauer.  
 Tomlinson, G. A.—James A. Madigan.  
 Topeka—S. Brownell.  
 Tourist—E. J. Dodge.  
 Townsend, E. Y.—Ed. Sullivan.  
 Transfer—Geo. Honner & Wm. Norvall.  
 Transport—Jos. Sharon.  
 Trimble, Richard—F. J. Crowley.  
 Troy—T. Slattery.  
 Truesdale, W. H.—Fred Goodrow.  
 Turner, J. J.—Wm. Langell.  
 Tuscarora—Wm. Williams.

- Tuxbury, A. C. (Bge.)—Chas. Fournier.  
Tyrone (Bge.)—F. E. Johnson.  
Uhrig, Edward A.—M. Anderson.  
Umbria—D. Elliott.  
Ungava (Sch.)—C. Sauve.  
Underwood, F. D.—Charles D. Ross.  
United States—Oscar E. Parks.  
Upson, Andrew S.—James Connolly.  
Upson, J. E.—W. W. Dawley.  
Utica—J. Fisher.  
Utley, E. H.—Edward Fitch.  
Van Hise, Chas. R.—W. E. Stover.  
Venus—S. K. Emerson.  
Verona—Elmer Trim.  
Victory—S. W. Matson.  
Viking—Martin Peterson.  
Virginia—E. E. Redner.  
Vulcan—M. A. Budd.  
Wainwright—D. A. Kendall.  
Wallace, E. L.—Tom Simmons.  
Wallace, Jas. C.—C. C. Stewart.  
Wallace, Robt.—J. A. Connelly.  
Walters, Thos.—Ev. Ennes.  
Walsh, Jas. P.—C. H. Heaton.  
Warner, R. S.—George Levis.  
Warren, Homer—Fred Wood.  
Watson, C. W.—Chas. Plotter.  
Watt, James—C. M. Konkey.  
Warrirer, S. D. (Bge.)—W. Jerome.  
Waubic—Geo. W. Kinnee.  
Wells, Fred'k B.—D. T. Sullivan.  
Westerian—Arthur Lefebore.  
Western Star—B. J. Sloan.  
Western States—A. J. McKay.  
Westmount—F. Howell.  
Weston, Chas.—C. C. Hanley.  
Whitaker, Byron—E. Tremblay.  
White & Friant (Bge.)—John R. Carr.  
White, Peter—James Kennedy.  
Wickwire, T. H.—William D. Montgomery.  
Wickwire, T. H., Jr.—Jas. W. Montgomery.  
Widener, P. A. B.—H. J. Regan.  
Widlar, Francis—Ed. Bennett.  
Wilpen—Ben Fox.  
Wilkesbarre—J. H. McDonald.  
Wilson, Capt. Thos.—Daniel Buie.  
Wilson, Matthew—Thos. McCambridge.  
Windsor—J. Doyle.  
Winnipeg—Thomas Hefferman.  
Winnipeg (Bge.)—M. Morcu.  
Wisconsin—Geo. T. Laughlin.  
Wissahickon—W. Delaney.  
Wolf, Wm. H.—John D. Wanvig.  
Wolvin, A. B.—John Tower.  
Woods, Frank—Chas. B. Coates.  
Wood, Joseph—A. J. Green.  
Wright, A. P.—P. Larson.  
Wright, A. W. (Bge.)—S. Williams.  
Wyandotte—W. J. MacLean.  
Yates, Harry—M. S. Peterson.  
Yorkton—R. Alexander.  
Yuma—J. J. Phillips.  
Zapotec (Bge.)—Adelard Monette.  
Zenith City—Henry Walper.  
Zimmerman, Eugene—F. B. Cody.





### TOLEDO, OHIO

- |                                       |  |                                      |
|---------------------------------------|--|--------------------------------------|
| 1. Asphalt Block Pavement Co.         | 10. Hocking Valley Coal and Ore Docks (New). | 19. Schenck Coal Dock, S. C.         |
| 16. C. H. and D. Ry. Co. (Elevator).  | 2. Ironville Coal Dock.                      | 12. Toledo Fuel Co.                  |
| 17. C. H. and D. Ry. Co. (Coal Dock). | 4. Kelsey & Freeman Lumber Dock.             | 6. Toledo Furnace Co.                |
| 18. C. H. and D. Ry. Co. (Ore Dock).  | 8. National Milling Co. (Elevator.)          | 7. Toledo Shipbuilding Co.           |
| 15. East Side Iron Elevator Co.       | 5. National Pole Co.                         | 13. Toledo & Ohio Central Ore Dock.  |
| 9. Empire Lumber Co.                  | 11. Pennsylvania Docks (Old Hocking.)        | 14. Toledo & Ohio Central Coal Dock. |
| 3. Gillmore's Dry Dock.               |  |                                      |

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**DRINK "ASHLAND" THE BEER THAT IS FAMOUS FOR ITS PURITY**



## APPOINTMENTS OF MASTERS OF LAKE VESSELS

List of Captains arranged according to names of vessels.

- Abbott, Geo.—W. A. Sherman  
(Sch.).
- Ackerman, J. C.—Pere Marquette  
18.
- Ackley, G. M.—Maricopa.
- Aiken, R.—Detroit.
- Alexander, R.—Yorkton.
- Allen, M. G.—James Laughlin.
- Allen, S. C.—Percival Roberts, Jr.
- Ames, Geo.—Mariposa.
- Ames, James N.—Marsala (Bge.).
- Ames, W. J.—C. H. Little.
- Anderson, C. A.—Ishpeming.
- Anderson, M.—Edward A. Uhrig.
- Anderson, Neil—Northern Wave.
- Anderson, P. A.—Centurion.
- Anderson, S.—Philetus Sawyer.
- Anderson, S. V.—A. D. MacTier.
- Ashley, W. A.—J. M. Jenks.
- Atkinson, C. L.—Alpena.
- Atkinson, George—F. B. Squire.
- Autterson, C.—Chester A. Cong-  
don.
- Autterson, J. T.—Mary C. El-  
phicke.
- Babb, Chas. W.—A. D. Davidson.
- Babbitt, John—Howard M. Hanna,  
Jr.
- Bahle, Esten—Pere Marquette.
- Bailey, F. A.—James A. Farrell.
- Baker, C. R.—Rufus P. Ranney.
- Balfour, C. C.—B. F. Berry.
- Ballentine, E. D.—Calumet.
- Banker, G. H.—Howard L. Shaw.
- Bansette, M.—Huron.
- Barloe, F.—Glenlivet.
- Barnard, E. F.—Manola.
- Barrett, A.—Keywest.
- Barry, Dan—J. S. Keefe.
- Bassett, Jos.—Cadwell.
- Bassett, R. G.—Paliki.
- Bates, John—Delta (Bge.).
- Batten, A. A.—Caribou.
- Batten, Geo.—Rapids Prince.
- Baxter, Wm.—Kearsarge.
- Beall, A. R.—Canopus.
- Beaupre, C.—India.
- Beggs, Thomas—J. A. Donaldson.
- Bell, George—Geo. F. Baker.
- Bell, J. C.—James B. Eads.
- Benham, C. A.—John Stanton.
- Benham, Wm. P.—J. J. Sullivan.
- Bennett, Chas.—John Crerar.
- Bennett, Chas. D.—James W. Fol-  
lette.
- Bennett, Ed.—Francis Widlar.
- Bennett, Thos.—Thomas Adams.
- Benoit, L.—Melrose (Bge.).
- Benson, C. G.—Marcia (Bge.).
- Bertrand, John—St. Lawrence.
- Betts, Wm.—Bon Ami.
- Birkland, Theo.—J. I. Case (Bge.).
- Birmingham, James—St. Joseph.
- Bjork, Oscar—City of St. Joseph.
- Blair, E. B.—North Star.
- Blanchard, J.—Garden City.
- Bloomfield, Wm.—Alexandria.



- Blum, F.—Delaware.  
Bohn, Ernest—Oak Leaf (Bge.).  
Booth, J.—F. M. Knapp (Bge.).  
Bostwick, Murray—Lehigh.  
Boucher, Jos.—Laurentian.  
Bouille, David—Coralia.  
Bowen, B.—Compton.  
Bowen, G. H.—Sir. Isaac Ellwood.  
Boyce, C. S.—Empire City.  
Boyce, H. M.—John Oades.  
Boyle, R. H.—J. Frater Taylor.  
Briggs, R.—Dayton (Bge.).  
Bright, W. A.—Missouri.  
Brines, J. M.—G. Watson French.  
Brines, S.—A. Maitland (Bge.).  
Brock, George B.—R. L. Agassiz.  
Brock, Henry—Middlesex (Sch.).  
Brookhyser, Geo.—Chicago.  
Brown, C. D.—E. F. Holmes.  
Brown, H.—J. H. Prentice.  
Brown, J. A.—Agawa.  
Brown, John—Sidney G. Thomas (Bge.).  
Brown, Nelson—J. H. Reed.  
Brown, W. C.—Hoover & Mason.  
Brown, W. J.—Atikokan.  
Brownell, E. H.—Ferd Schleisinger.  
Brownell, Jos. A.—Hennepin.  
Brownell, S.—Topeka.  
Budd, M. A.—Vulcan.  
Buie, Daniel—Capt. Thos. Wilson.  
Bunting, Geo.—Keyvive.  
Burns, John—J. P. Morgan.  
Burns, R.—Alex. Anderson (Sch.).  
Burns, Thomas—G. J. Grammer.  
Burns, William—C. F. Moll.  
Burrows, A. W.—Simon J. Murphy.  
Burt, Geo.—Maunaloa.  
Butler, Frank—H. Dahlke.  
Cain, R. A.—Thomas Barlum.  
Call, Richard—D. Z. Norton.  
Callam, A. C.—Wm. E. Fitzgerald.  
Campbell, A. L.—Hamonie.  
Campbell, N.—R. Grant Morden.  
Campbell, Walter—M. G. Hausler.  
Canartney, W.—W. H. Sawyer.  
Carloss, W. S.—Saxona.  
Carlson, Carl—Roumania.  
Carney, J.—Ontario.  
Carr, John R.—White & Friant (Bge.).  
Carr, W. H.—Ariel.  
Carson, U.—Major.  
Cartwright, P. M.—John Sherwin.  
Cassin, James—Pawnee.  
Chamberlain, Fred—A. Stewart (Bge.).  
Chamberlain, M. K.—Thomas F. Cole.  
Chamberlain, W.—Frank H. Peavey.  
Chambers, A. P.—Wm. P. Palmer.  
Chambers, J.—Racine.  
Charlebois, F. M.—Ramona.  
Chilson, F. B.—Chas. O. Jenkins.  
Christie, D. B.—Brockville.  
Christin, Emil—Robt. L. Fryer (Bge.).  
Christopher, Sam—Herunnels.  
Clarke, A. A.—Joseph Block.  
Clarke, C. T.—Jay Gould.  
Clarke, John C.—Delos W. Cooke.  
Clegg, H. J.—Saxon.  
Coates, Chas. B.—Frank Woods.  
Cody, F. B.—Eugene Zimmerman.  
Cody, U. S.—Wm. A. Paine.  
Collins, Allen—Sir Wm. Fairbairn.  
Conlin, T. N.—F. T. Heffelfinger.  
Connelly, J. A.—Robt. Wallace.

- Connolly, James—Andrews S. Upson.  
 Coons, C.—Simla.  
 Cottrell, Geo. L.—E. L. Fisher.  
 Cottrell, Jas.—Wm. A. Hazard.  
 Cottrell, W. F.—John A. Roeb-  
 ling (Bge.).  
 Cottrell, W. M.—Owego.  
 Cousins, Arthur—John Rolph.  
 Cousins, W. H.—Andaste.  
 Cowie, Andrew—Sirius.  
 Cowles, Wm. J.—Linden.  
 Craigie, A.—A. M. Byers.  
 Crawford, George B.—Northern  
 Queen.  
 Crawford, Jas.—Aletha.  
 Crawford, J. G.—Pere Marquette  
 19.  
 Crawford, J. M.—Puritan.  
 Cronkrite, H.—Allegheny.  
 Cross, G. T.—Iocoma.  
 Crooker, D. M.—H. Steinbrenner.  
 Crowley, F. J.—Richard Trimble.  
 Cullen, F. J.—Wm. Edenborn.  
 Culp, H.—Crescent City.  
 Cummings, Geo. M.—North Amer-  
 ican.  
 Cunningham, James—Mohegan.  
 Cunningham, Wm.—W. D. Mat-  
 thews.  
 Curran, Edwin—E. Gunnell.  
 Currie, John B.—Athabasca.  
 Daryaw, Chauncey—Ford River  
 (Sch.).  
 Davidson, H.—Harvey D. Goulder.  
 Davis, Frank J.—Alberta.  
 Dawley, W. W.—J. E. Upson.  
 DeLand, W. A.—Ontario.  
 Delaney, W.—Wissahickon.  
 Demers, L. R.—Quebec.  
 Denner, J. H.—Isaac L. Bell.  
 DeNike, Lee—City of Mackinac  
 II.  
 Dennis, H. S.—Duluth.  
 Deoust, I.—Dunmore (Bge.).  
 Desot, F.—Commodore (Bge.).  
 Detlefs, E.—A. A. Augustus.  
 Dick, Wm. H.—James Nasmyth  
 (Bge.).  
 Dickson, A. R.—Pentland.  
 Dix, James—Glenmavis.  
 Doak, John A.—Chas. F. Neff.  
 Dodge, E. J.—Tourist.  
 Donahue, J.—Susquehanna.  
 Donner, Jas.—John P. Reiss.  
 Dority, F. A.—City of South  
 Haven.  
 Dougherty, J.—Tionesta.  
 Doyle, J.—Windsor.  
 Dubrule, E. A.—Haskell.  
 Duddleson, J. M.—Wm. B. Davock.  
 Dugal, Jos.—Tadousac.  
 Duncanson, D. L.—Geo. L. Craig.  
 Dunn, P. H.—John Ericsson.  
 Dunn, Wm. R.—Onoko.  
 Dupuie, George—Cepheus.  
 Dupuis, F. A.—Champlain.  
 Durker, Henry—Saranac.  
 Eble, John—N. J. Nessen.  
 Edwardsen, Cris—Chas. Horn.  
 Ege, Gustave—Easton.  
 Eger, W. W.—W. L. Brown.  
 Ehrhart, J. W.—Robert L. Ireland.  
 Eligh, P.—Roberval.  
 Elliott, D.—Umbria.  
 Elliott, David—Kensington.  
 Elliott, Frank—Kalkaska.  
 Ellis, C. S.—Caldera.  
 Ellis, L. A.—O. E. Parks.  
 Elsey, D. B.—Taurus.  
 Emerson, S. K.—Venus.  
 Emig, T.—H. N. Jex.



- England, R. W.—B. F. Jones.  
Ennes, Ev.—Thos. Walters.  
Ernest, Charles W.—Senator.  
Evans, R. T.—Herman H. Hettler.  
Evanson, E. A.—Lupus.  
Ewart, John—Neibing.
- Ferguson, Geo. H.—Sachem.  
Ferguson, J. A.—Rensselaer.  
Ferguson, Wm.—Wm. S. Mack.  
Finucan, W. F.—Manitou.  
Fisher, J.—Utica.  
Fitch, Edward—E. H. Utley.  
Flaherty, J.—C. F. Bielman, Jr.  
(Mail Boat).  
Foote, A.—J. B. Ketcham II.  
Foote, J. N.—Paipoonge.  
Foote, R. D.—Noronic.  
Forrest, G. F.—Mary A. Mc-  
Gregor.  
Fournier, Chas.—A. C. Tuxbury  
(Bge.).  
Fowler, C. C.—Arizona.  
Fowler, Thos.—L. G. Powell.  
Fox, A. J.—Put-In-Bay.  
Fox, Ben—Wilpen.  
Fox, Charles—Choctaw.  
Fox, J. C.—Olcott.  
Fox, Louis—Aurora (Bge.).  
Francis, L. J.—W. D. Rees.  
Franke, C. H.—Chas. S. Hebard.  
Franklin, W. E.—Alabama.  
Furey, C. S.—Mauch Chunk.  
Fyrie, Harry—W. Arrow.
- Gagne, Paul—Chinock.  
Gagne, Wilfrid—St. Irene.  
Gallagher, B. J.—D. B. Meacham.  
Galton, Chas. B.—Wm. C. Agnew.  
Galton, J. W.—S. M. Clement.  
Gardner, W. F.—A. W. Osborn.  
Garey, J. C.—Cherokee.
- Garlock, C. J.—Genoa (Bge.).  
Garn, L. A.—Jessie Spalding.  
Gegenheimer, C.—J. P. Morgan,  
Jr.  
Geisendorfer, A.—Alva S. Chris-  
holm, Jr.  
Gemmel, J. T.—Douglas Hough-  
ton.  
Gentz, Otto—John Owen.  
Gillies, D.—Rochester.  
Girardin, D., Jr.—Harvey H.  
Brown.  
Girardin, W. L.—Castalia.  
Gonyaw, Capt.—Gettysburg.  
Goodrow, Frank—Norwalk.  
Goodrow, Fred—W. H. Truesdall.  
Goodwin, Eugene—Grace Dor-  
mer.  
Goodwin, Jas. F.—Martin Mullen.  
Gordan, W. C.—W. C. Franz.  
Gordon, Charles—Manda (Bge.).  
Graham, Donald—W. L. Jenney  
(Bge.).  
Graham, Geo.—Rosemount.  
Grant, C. J.—Norman B. Ream.  
Graves, A. R.—City of Cheboy-  
gan.  
Green, A. J.—Joseph Wood.  
Green, Peter—Barnum.  
Greene, J. D.—Seneca.  
Greenway, T. B.—A. M. Marshall.  
Groulx, E.—Carleton.  
Gue, Guy—Simon Langell.  
Gunderson, Fred—Edward Buck-  
ley.  
Gunderson, N. A.—Susie Chipman.  
Gustofson, P.—A. Krupp (Bge.).
- Hagan, Wm.—Leonard B. Miller.  
Hagenson, B. T.—Ashtabula.  
Haggerty, J.—C. J. Filmore  
(Bge.).

- Hahn, C. P.—Peter Reiss.  
 Haight, C. M.—South American.  
 Hall, J. W.—N. C. Holland (Bge.).  
 Hamilton, W.—Hilton.  
 Hand, A. S.—Magna (Bge.).  
 Hanley, C. C.—Chas. Weston.  
 Hannell, W.—Morman Kelley  
 (Bge.).  
 Hansen, A. C.—J. J. Hill.  
 Hansen, Hans—T. S. Christie.  
 Hanson, John T.—City of Berlin.  
 Harbottle, H. G.—Wm. E. Corey.  
 Hart, F. C.—A. W. Thompson  
 (Bge.).  
 Hartman, A. H.—G. A. Flogg.  
 Hay, Peter—Northern Light.  
 Hayes, John—L. L. Barth.  
 Hayes, W. J.—Aloha (Bge.).  
 Hays, J. C.—Amazon.  
 Hayward, E.—City of Cleveland  
 III.  
 Hayward, Geo. W.—Joe S. Mor-  
 row.  
 Healy, James—Lackawanna.  
 Hearn, John—Cascapedia.  
 Hearney, J. C.—G. A. Richardson.  
 Heaton, C. H.—Jas. P. Walsh.  
 Hebert, A.—Hamilton (Bge.).  
 Hector, Fred C.—H. G. Dalton.  
 Hefferman, James—Jacob T.  
 Kopp.  
 Hefferman, T.—Lake Michigan.  
 Hefferman, Thomas—Winnipeg.  
 Henry, A. W.—Spokane.  
 Henry, Wm.—Chas. Lyon.  
 Herbert, James G.—A. E. Corne-  
 lius.  
 Hesson, J. R.—Corrigan.  
 Hetrick, Mike—Clinton.  
 Hill, Roland D.—City of Mar-  
 quette.  
 Hill, Samuel—J. H. G. Hagarty.  
 Hill, W. E.—Maywood.  
 Higgin, J. F.—Louis Pahlow.  
 Hinckley, A. R.—Hinckley.  
 Hinckley, C. J.—America.  
 Hoag, W. S.—Geo. W. Perkins.  
 Holdridge, George—E. H. Gary.  
 Holmes, A. W.—Corvus.  
 Horne, George—Katie Brainard  
 (Bge.).  
 Horne, Grant—Stephen C. Hall.  
 Honner, Geo.—Transfer.  
 Hourigan, D.—Adrian Iselin.  
 Howell, F.—Westmount.  
 Hoxie, H. L.—Pere Marquette 3.  
 Hudson, A.—Glenyon.  
 Hudson, J. H.—G. R. Crowe.  
 Hudson, W. C.—New Island Wan-  
 derer.  
 Humble, R. F.—Henry Phipps.  
 Humphrey, M. W.—Omega.  
 Hunt, W. J.—Alva C. Dinkey.  
 Huntoon, F. A.—Detroit.  
 Hyatt, John—City of St. Ignace.  
  
 Iler, W. C.—G. G. Crawford.  
  
 Jackson, James—D. O. Mills.  
 Jackson, John—Landsdown.  
 Jacques, Eli—C. E. Redfern  
 (Bge.).  
 Jaenke, Herman—George N. Ort.  
 Jagenow, Wm.—J. K. Dimmick.  
 Jarrell, John J.—Caspian.  
 Jenkyn, A. M.—Odanah.  
 Jerome, W.—S. D. Warriner  
 (Bge.).  
 Jex, H. N.—Nelson Bloom (Bge.).  
 Jex, R. W.—E. T. Judd (Bge.).  
 Johnson, Carl—Interlaken (Bge.).  
 Johnson, Alfred—Americana.  
 Johnson, F. E.—Tyrone (Bge.).



- Johnson, Frank H.—S. N. Parent.  
 Johnson, F. C.—Marion.  
 Johnson, G.—Minnesota.  
 Johnson, J. P.—Ashland (Bge.).  
 Johnston, Alex—J. C. Munro.  
 Johnston, Fred R.—Algonquin.  
 Jollie, Richard—E. J. Buffington.  
 Jones, H. L.—Merida.  
 Jones, J. F.—Shenango.  
 Jones, S. R.—Boston.  
 Jones, W. C.—James E. Davidson.  
 Jorgenson, Carl—D. G. Cutler (Bge.).  
 Joyce, John—G. K. Jackson (Bge.).
- Keischgens, P.—Mingoe (Bge.).  
 Keller, A.—Ida Corning (Bge.).  
 Kelley, H. T.—Malietoa.  
 Kelley, J. W.—Anna C. Minch.  
 Kelley, Timothy—Maryland.  
 Kelley, Wm.—H. M. Pellatt.  
 Kendall, C. H.—Thousand Islander.  
 Kendall, D. A.—Wainwright.  
 Kendall, Geo. P.—Bryn Mawr (Bge.).  
 Kendall, H. J.—Harvey J. Kendall.  
 Kennedy, D.—Purcer.  
 Kennedy, D. A.—Iroquois.  
 Kennedy, James—Peter White.  
 Kennedy, John—Buffalo.  
 Kenyon, W. S.—State of New York.  
 Kiah, D. A.—Henry B. Hall.  
 Kilby, W. H.—Henry C. Frick.  
 Kinch, Geo.—Burlington.  
 Kinnee, Geo. W.—Waubic.  
 Kirkwood, W. J.—Steelton.  
 Knapp, R. H.—Lakeport.  
 Konkey, C. M.—James Watt.  
 Kuhn, John—M. Sicken.
- LaFey, L. F.—M. T. Greene.  
 LaFleur, W. H.—Pere Marquette 17.  
 La Framboise, J.—W. B. Schiller.  
 La France, F. X.—Montreal.  
 Laing, Robt.—Inland.  
 Lake, Arthur—Forster W. Mitchell (Sch.).  
 Lalonde, O.—Huron.  
 Lalonde, Wm.—Quebec (Bge.).  
 Lampoh, Jos.—Matthew Andrews.  
 Landfair, B. M.—W. D. Crawford.  
 Landon, Wm.—Harry A. Berwind.  
 Lane, Geo.—Henry Cort.  
 Langell, Wm.—J. J. Turner.  
 Laroche, D. N.—Easton.  
 Larrabee, M. A.—Harvey.  
 Larson, Alex L.—Ann Arbor 4.  
 Larson, Ivar—137 (Bge.).  
 Larson, John—Eddy Selwyn.  
 Larson, P.—A. P. Wright.  
 Laughlin, Gec. T.—Wisconsin.  
 Lavelly, L. J.—Hemlock.  
 Laviolette, A.—Boucherville.  
 Lawrence, H.—Teutonia (Bge.).  
 Lawrence, Julius—Thomas Gaun.  
 Leath, E. C.—North Sea.  
 LeBeau, Sidney—Fred Mercur.  
 Leboeuf, C., Sr.—Selkirk (Bge.).  
 Leboeuf, Modeste—A. D. (Bge.).  
 Leboeuf, Samuel—F. A. Georger (Sch.).  
 Leduc, Leonel—H. Gladys (Bge.).  
 Leduc, T. L.—Augustus (Bge.).  
 Leduc, W.—Burma (Bge.).  
 Lefebore, Arthur—Westerian.  
 Lehan, J.—Conemaugh.  
 Leonard, R. M.—E. C. Pope.  
 Levifue, Wm.—Glenshee.  
 Levis, George—R. S. Warner.  
 Liddell, Wm.—Fairmont.

- Light, F. W.—James B. Neilson.  
 Lightbody, John—City of Alpena  
 II.  
 Lightbody, M.—Reserve.  
 Lindale, T.—Arizona.  
 Linton, Walter—Glenfinnan.  
 Lohr, Wm.—Bransford.  
 Lovesless, Fred—Rutland.  
 Lowes, J. H.—H. P. Bope.  
 Lozen, J. F.—J. B. Lozen (Bge.).  
 Lyman, C. A.—Milwaukee.  
 Lyons, H. S.—C. Russell Hubbard.  
 Lyons, James B.—Perseus.  
 Lyons, S. A.—J. H. Sheadle.
- MacAuley, G. A.—James H. Hoyt.  
 MacDonald, J.—Sonoma.  
 MacFarlane, D.—Charles Heiden.  
 MacGregor, Wilson—Griffin.  
 MacIntosh, John E.—Frank C.  
 Osborn.  
 MacIsaac, Neil—Pere Marquette  
 20.  
 MacLean, D.—Theodore Roosevelt.  
 MacLean, W. J.—Wyandotte.  
 McAuley, H.—M. E. Orton.  
 McCaffrey, B.—Schoolcraft.  
 McCallum, Geo.—Gen. O. M. Poe.  
 McCambridge, Thos.—Matthew  
 Wilson.  
 McCanly, H. C.—Pere Marquette  
 5.  
 McCann, Hugh—Louis R. Davidson.  
 McCannel, James—Assiniboia.  
 McCarthy, James—Albert E.  
 Stewart.  
 McCarty, Frank—Islander.  
 McCarty, J. C.—Sindbad.  
 McCarty, Jno. G.—Eugene C.  
 Hart.
- McCarty, Wm.—Chippewa.  
 McClinton, W. D.—Huron.  
 McCloud, A.—Brazil.  
 McClure, C. E.—Marshall F. But-  
 ters.  
 McCowan, Alex—Lakeland.  
 McCoy, N. J.—Manitou.  
 McDonald, J.—Schuykill.  
 McDonald, J. H.—Wilkesbarre.  
 McDonald, M.—Isabella Sands  
 (Bge.).  
 McDonald, W. B.—Indus.  
 McDonald, Wm—Maida (Bge.).  
 McDougall, C. L.—Gogebic.  
 McDougall, T. A.—D. G. Kerr.  
 McElroy, U. P.—S. F. B. Morse.  
 McEwen, H. W.—German.  
 McEwen, T.—D. P. Dobbins  
 (Bge.).  
 McEwen, Thos.—Sophia Minch  
 (Bge.).  
 McGarity, D. J.—Carolina.  
 McGarry, George—L. C. Hanna.  
 McGregor, A. E.—Polynesia.  
 McGuire, Wm.—John M. McKer-  
 chey.  
 McIntosh, J. L.—W. A. Rogers.  
 McIntosh, M. G.—J. S. Ashley.  
 McIntyre, A.—Thos. J. Drum-  
 mond.  
 McIntyre, John—Manitoba.  
 McIntyre, P.—George A. Graham.  
 McKay, A. J.—Western States.  
 McKay, Dan—Eastern States.  
 McKenzie, A.—Mahoning.  
 McKenzie, E.—Juniata.  
 McKenzie, H.—Chas. S. Beattie.  
 McKenzie, K.—L. Edward Hines.  
 McKinley, James—W. B. Saun-  
 ders (Tug).  
 McLachlan, D.—Stanstead.



- McLean, J. C.—Lakewood.  
McLeod, H. D.—Alex McDougall.  
McLeod, J. P.—W. H. Dwyer.  
McMann, T.—Toiler.  
McMaugh, Archie A.—Bethlehem.  
McPhee, Malcolm—Keewatin.  
McQueen, W. S.—Ogdenburg.  
McQuinn, Wm.—Melvin S. Bacon  
(Sch.).  
McRae, Kenneth—Neptune.  
Mackey, M. D.—Georgia.  
Mackie, G.—Chickamauga (Bge.).  
Mackin, W. J.—John Plankinton.  
Madden, J. H.—E. L. Booth.  
Maddich, J. W.—Dalhousie City.  
Madigan, James A.—G. A. Tom-  
linson.  
Magnes, D.—Pere Marquette 4.  
Maguire, Norman—J. C. Ford.  
Mahon, A. J.—John J. Barlum.  
Mahon, Joseph E.—Alaska.  
Maitland, H.—Edmonton.  
Major, W. S.—O. D. Conger.  
Malette, P. A.—Constitution  
(Bge.).  
Maloney, Geo. J.—Manila (Bge.).  
Maltby, Wm.—Fred G. Hartwell.  
Mandeville, A.—Louis Philippe.  
Martin, J.—Octorara.  
Martin, James—Keynor.  
Martin, Michael—Pere Marquette  
8.  
Massey, Chester—Briton.  
Massey, S. B.—D. R. Hanna.  
Matson, S. W.—Victory.  
Matteson, John—D. L. Filer  
(Bge.).  
Matthews, Joseph—N. F. Leopold.  
May, A. C.—H. B. Hawgood.  
May, A. T.—Huron.  
May, E. W.—R. W. England.  
Meeker, S. E.—R. W. E. Bunsen.  
Megarvey, Wm.—Powell Stack-  
house.  
Messner, John—Signey O. Neff.  
Meyers, O. E.—E. P. Recor.  
Meyers, Ralph—Niko.  
Millen, P. L.—D. J. Morrell.  
Miller, C. D.—Edward Smith.  
Milliken, Wm.—Roman.  
Mills, A.—Santiago (Bge.).  
Mills, Jos.—Jennie Matthews.  
Milne, John—S. H. Robbins.  
Mimms, H. C.—Imperial.  
Mohr, Chas. A.—E. W. Oglebay.  
Moles, F. G.—Germanic.  
Mondor, A.—Three Rivers.  
Monette, Adelard—Zapotec (Bge.).  
Monette, Aime—F. D. Ewen  
(Bge.).  
Montague, A.—Sir Henry Besse-  
mer.  
Montgomery, G. A.—LaSalle.  
Montgomery, J. D.—City of Mid-  
land.  
Montgomery, J. D.—Majestic.  
Montgomery, Jas. W.—T. H.  
Wickwire, Jr.  
Montgomery, John A.—John J.  
Boland.  
Montgomery, William D.—T. H.  
Wickwire.  
Moody, C. E.—Christopher Colum-  
bus.  
Moody, W. H.—Wm. B. Dickson.  
Mooney, W. T.—Pontiac.  
Moore, W. E.—Mecosta.  
Morcu, M.—Winnipeg (Bge.).  
Morgan, B. W.—C. W. Chamber-  
lin.  
Morgan, M. F.—City of Grand  
Rapids.

- Morrison, A. A.—E. N. Ohl.  
 Morrison, J. N.—Jupiter.  
 Morse, A. R.—D. M. Philbin.  
 Morton, E. R.—Gen. Garretson.  
 Moser, A. C.—George Stephenson.  
 Mouck, A.—America.  
 Mullin, Jno.—Keyport.  
 Murphy, Daniel—Frank Rockefeller.  
 Murphy, H. A.—Frontenac.  
 Murphy, Henry—Chicago.  
 Murphy, James—Jos. G. Butler, Jr.  
 Murray, J.—Keybell.  
 Nahrstedt, J.—Thomas Lynch.  
 Napier, J.—Port Dalhousie.  
 Napier, N. W.—Charles McVea.  
 Neal, J. S.—Ward Ames.  
 Neal, W. R.—S. S. Curry.  
 Nelson, A. C.—Isabella H. (Bge.).  
 Nelson, F.—Muncy.  
 Nelson, G. E.—Golden Age (Bge.).  
 Nelson, O.—Lewiston.  
 Nelson, Severn—Corsica.  
 Nesbitt, William K.—Colonel.  
 Neville, R.—A. W. Thompson.  
 Nicholas, B.—D. J. Burke (Tug).  
 Noble, J.—John W. Gates.  
 Nordahl, Arnold—Maia (Bge.).  
 Norris, J. V.—Advance.  
 Normen, N. J.—Geo. J. Boyce (Sch.).  
 Norvall, Wm.—Transfer.  
 Oertling, H., Jr.—Livingston.  
 Ogden, B. F.—Cetus.  
 O'Hagan, Hugh—F. R. Buell.  
 Ohlemacher, Edward—Mary Gron.  
 Ohman, John—Sagamore (Bge.).  
 Oldenburg, H.—Landsdowne.  
 Oleson, O. T.—W. J. Carter.  
 Olsen, Eli—I. N. Foster.  
 Osborne, F. D.—Superior.  
 Ott, F. H.—Wm. P. Snyder.  
 Pardee, F.—Codorus.  
 Parke, J. F.—F. E. House.  
 Parker, J. R.—John Smeaton (Bge.).  
 Parks, Oscar E.—United States.  
 Parsons, J. W.—Calcite.  
 Patenaude, A.—Senator Derbyshire.  
 Patterson, O.—Beaverton.  
 Patterson, R. C.—Minneapolis.  
 Pauls, Fred H.—Frank E. Kirby.  
 Payea, Bert—Langell Boys.  
 Peacock, J. H.—Arthur (Sch.).  
 Pearson, John—Mary.  
 Pederson, H.—Eastland.  
 Pederson, Knute—Arthur (Bge.).  
 Peltier, R. D.—W. F. Fitch.  
 Perew, F. D.—Angeline.  
 Peters, H.—Glenmount.  
 Peterson, Frank—Collinge.  
 Peterson, Hans—City of Sheboygan.  
 Peterson, J. M.—Alice M. Gill.  
 Peterson, Martin—Viking.  
 Peterson, M. S.—Harry Yates.  
 Peterson, P. A.—Pathfinder.  
 Petroskey, W. J.—Petoskey.  
 Phillips, J. J.—Yuma.  
 Pickel, Ed. S.—City of Erie.  
 Pierce, W. E.—Ogemaw.  
 Pitts, Oliver—S. R. Kirby.  
 Pizer, W. J.—George E. Hartnell (Bge.).  
 Plotter, Chas.—C. W. Watson.  
 Poirier, Jos.—Katie H. (Bge.).  
 Powell, Frank P.—Chas. L. Hutchinsonson.  
 Powrie, P. F.—City of Naples.



- Post, D. M.—F. L. Robbins.  
 Powers, John J.—John Rugee.  
 Pratt, Frank C.—James S. Dunham.  
 Pregent, L.—Canobie.  
 Pringle, Ralph—Normandie.  
 Pringle, Walter—Chas. S. Osborn (Tug).  
 Quackenbush, Emmett—J. Lambert.  
 Quinn, Thos.—T. S. Fassett.  
 Raber, E.—Michipicotin.  
 Rand, S. A.—J. J. H. Brown.  
 Randall, Frank—Adriatic.  
 Randall, W. U.—Argo.  
 Randolph, Geo.—Princeton.  
 Ransom, W. H.—R. R. Rhodes.  
 Rattray, Chas.—J. P. Donaldson.  
 Recor, Robert—Cygnus.  
 Redner, E. E.—Virginia.  
 Reece, George—Robert Fulton.  
 Reed, A. H.—J. C. Morse.  
 Reed, William A.—Amasa Stone.  
 Regan, H. J.—P. A. B. Widener.  
 Reid, Fred—W. L. King.  
 Reid, R. J.—Sultana.  
 Reid, W. C.—Maruba.  
 Reoch, Jas.—Stormount.  
 Reynolds, J. E.—Huron City.  
 Rice, F.—H. H. Rogers.  
 Richardson, F.—E. G. Crosby.  
 Richmond, W. A.—Meaford.  
 Riley, Geo. S.—Canadiana.  
 Rinfret, Jos.—Belleville.  
 Rinn, J. B.—Chas. W. Kotcher.  
 Ritchie, W. S.—F. W. Hart.  
 Roach, N. B.—Sir Thomas Shaughnessy.  
 Roberson, J. O.—Alice B. Norris (Bge.).  
 Robertson, Capt.—Chief Wawatam.  
 Robertson, Chas. E.—Ann Arbor 3.  
 Robinson, A. R.—W. J. Olcott.  
 Robinson, C. E.—E. B. Osler.  
 Robinson, S. O.—City of Detroit II.  
 Robinson, Walter—W. C. Rhodes.  
 Rogers, W. G.—Milinokett.  
 Rolfson, J. N.—Wm. R. Linn.  
 Rolseng, Iver—St. Paul.  
 Ross, Charles D.—F. D. Underwood.  
 Rowan, M. M.—Marquette & Bessemer No. 1.  
 Russell, Frank P.—Geo. C. Howe.  
 Russell, Henry—Phenix.  
 Russell, H. M.—F. P. Jones.  
 Russell, Wm. A.—Lucius W. Robinson.  
 Ryckman, Chas.—Athens (Bge.).  
 Sanders, T. H.—Wm. P. Snyder, Jr.  
 Sanford, James—S. M. Stephenson.  
 Sauer, Geo. J.—Toltec.  
 Sauve, C.—Ungava (Sch.).  
 Saveland, H. M.—Carrington.  
 Sawyer, E. L.—Queen City.  
 Scott, F.—Collingwood.  
 Scott, N.—Imperoyal.  
 Seelye, C. L.—Harold B. Nye.  
 Selee, F. D.—Geo. A. Black.  
 Senior, E. B.—Kelley Island.  
 Sexsmith, Samuel—E. N. Saunders.  
 Shackett, J. S.—Robert Mills.  
 Sharon, Jos.—Transport.  
 Sharrow, Alex—Iron Cliff (Bge.).  
 Sharrow, Alex—John J. Barlum (Bge.).

- Shay, W. S.—Bennington.  
 Sheehan, J. F.—C. H. Green.  
 Sheldon, A. D.—R. Bottsford  
 (Bge.).  
 Shorkey, W. W.—Scranton.  
 Simard, Jos.—Sagenuay.  
 Simmons, Tom—E. L. Wallace.  
 Simons, A. J.—City of Benton  
 Harbor.  
 Simons, John—Arthur Orr.  
 Simpson, F. J.—City of Detroit  
 III.  
 Slattery, T.—Troy.  
 Sloan, B. J.—Western Star.  
 Smith, A. C.—Cornell.  
 Smith, E. C.—America.  
 Smith, J. A.—Masaba.  
 Smith, J. A.—Samuel Mather  
 (Small).  
 Smith, J. H.—J. T. Hutchinson.  
 Smith, John—Averell.  
 Smith, John—Pere Marquette 6.  
 Smith, W. E.—George King.  
 Smith, W. H.—City of Buffalo.  
 Smith, Wm.—The Harvester.  
 Snook, Geo.—Canisteo.  
 Soleau, O. J.—W. H. Donner.  
 Solery, J. H.—Calgary.  
 Sparling, W. C.—Manistique.  
 Steenes, W.—Port Colborne.  
 Steffenson, Olaf—Helvetia (Bge.).  
 Stephen, E. L.—Kaministiquia.  
 Stephenson, J. P.—Rapids Queen.  
 Stephenson, Ole—S. J. Tilden  
 (Bge.).  
 Stevenson, H.—Sinaloa.  
 Stevenson, Thomas—North Wind.  
 Stevenson, W.—Cuyler Adams.  
 Stevenson, W. H.—Northern  
 King.  
 Stevenson, Wm.—Penobscott.  
 Stewart, C. C.—Jas. C. Wallace.  
 Stewart, Harvey—Hugh Kennedy.  
 Stewart, H. W.—Phillip Minch.  
 Stewart, J. A.—Presque Isle.  
 Stewart, J. H.—Elva.  
 Stewart, M. M.—Q. A. Shaw.  
 Stockwell, T. J.—Ossifrage.  
 Stone, L. W.—Samuel Mather.  
 Stover, John—City of Toledo.  
 Stover, W. E.—Chas. R. Van Hise.  
 Strahan, L. H.—I. Watson  
 Stephenson.  
 Stufflebeam, J.—Illinois.  
 Sullivan, D. C.—E. J. Earling.  
 Sullivan, D. T.—Fred'k B. Wells.  
 Sullivan, Ed.—E. Y. Townsend.  
 Sutherland, J.—Northmount.  
 Swailes, George—W. G. Pollack.  
 Talbot, A. J.—Wm. J. Filbert.  
 Taylor, Edw. E.—Rochester.  
 Taylor, R. D.—Arenac (Bge.).  
 Taylor, Wm.—Glenfoyle.  
 Thody, J.—W. K. Moore (Bge.).  
 Thompson, Peter—North Lake.  
 Thompson, R.—John Fritz.  
 Thomson, A. R.—Mataafa.  
 Thorpe, J.—Kansas.  
 Thrasher, Chas.—Maritana.  
 Thurston, John—Nellie Reding-  
 ton (Bge.).  
 Tilden, L. S.—H. P. McIntosh.  
 Tousley, Chas.—Wm. Livingston.  
 Tousley, Roy—J. R. Edwards  
 (Bge.).  
 Tower, John—A. B. Wolvin.  
 Trail, Thomas—Grand Haven.  
 Tremblay, E.—Byron Whittaker.  
 Trim, Elmer—Verona.  
 Trimble, Geo.—St. Clair.  
 Trudo, J. H.—G. B. Owen (Bge.).  
 Tufveson, M. P.—Chattanooga  
 (Sch.).





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| Willet, C. W.—Normania.                        | Winkler, H.—M. A. Bradley.           |
| Williams, A. M.—City of Bangor.                | Wood, Fred—Homer Warren.             |
| Williams, S.—A. W. Wright<br>(Bge.).           | Wood, W. W.—Tokio (Bge.).            |
| Williams, Wm.—Tuscarora.                       | Woodford, C. H.—Elba.                |
| Williams, Wm. A.—Crete.                        | Woodward, T. K.—Abyssinia<br>(Bge.). |
| Williamson, Patrick—Niagara.                   | Worden, S. B.—W. K. Bixby.           |
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| Wilson, C. H., Jr.—Panay.                      | Wright, W. E.—Christopher.           |
| Wilson, C. H., Sr.—E. D. Carter.               | Yates, W. H.—Huron.                  |
| Wilson, Chas. L.—Alexander Hol-<br>ley (Bge.). | Young, George—Martha (Bge.).         |
| Wilson, J. A.—Indiana.                         | Zealand, T. F.—Sir Wm. Siemens.      |
| Wing, O. M.—Ionic.                             | Zeim, Wm. C.—C. Helen.               |
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