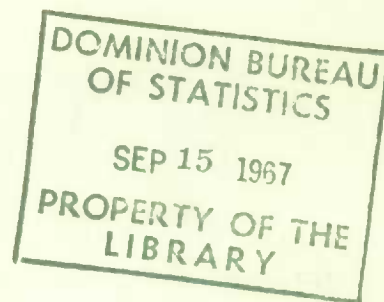


CATALOGUE No.

54-208

ANNUAL



## SHIPPING REPORT

1963 and 1964

PART VI

### Commodity Flow Charts

First issue. The statistics included in this part are new and were not previously published in other parts of the Shipping Report. See introductory text for details.

DOMINION BUREAU OF STATISTICS



54-208

SHIPPING REPORT

ANNUAL

Part VI

1963 - 1964

ERRATA

Section 1, Chart 3

Table for "Movements to and from Foreign Areas" should include 7,840 tons unloaded from U.S. Atlantic and Gulf Ports.

Section 1, Chart 4

Churchill U. 1,872 should read L. 1,872.

Section 1, Chart 16

Port Credit U. 23,273 should read U. 27,273.

Section 2, Chart 2

Directional arrow of the 4,566 tons transported past Liverpool, N.S. should be reversed.

Section 2, Chart 3

In the Table for "Movements not Included in Flow" the 48,400 tons unloaded from Other U.S. Lake Michigan Ports should read 148,400. Levis U. 48,032 should read Quebec U. 48,032.

Section 2, Chart 5

Table for "Movements to Foreign Areas" should include 136 tons unloaded from Western Europe.

Section 2, Chart 6

There should be an additional branch line southwest from Rimouski to main flow for the loading of 51,240 tons.

Section 2, Chart 11

Halifax U. 1,674,430 should read L. 1,674,430.

Section 2, Chart 16

Directional arrow of the 671,705 tons transported past Shelburne, N.S. should be reversed.

Directional arrow and the figure 259,083 southeast of Sault Ste. Marie, Ont. should be northwest before the branch to Michipicoten Harbour and Marathon, Ont. The loading of 11,573 tons between Sorel and Contrecoeur, P.Q. is at Lanoraie.



DOMINION BUREAU OF STATISTICS  
Transportation and Public Utilities Division  
Transportation Section

SHIPPING REPORT  
1963 and 1964

PART VI

Commodity Flow Charts

*Published by Authority of*  
The Minister of Trade and Commerce

August 1967  
8702-537

Price: 75 cents

Reports published by the  
 Transportation and Public Utilities Division  
 dealing with  
**WATER TRANSPORT**

Catalogue number	Title	Price
<b>Periodical</b>		
54-001	<b>Summary of Canal Statistics, Monthly</b> - April to December. (6 pp.) Vessel passages, registered net tonnage, and tonnage of freight for all canals; tonnages of freight transported through the St. Lawrence Canals and Welland Canal, by commodity, by direction, and by type of cargo; tonnages of freight transported through the Sault Ste. Marie Canals by commodity and by direction. December monthly includes a brief summary for the season of navigation .....	10¢, \$1.00 a year
54-002	<b>Shipping Statistics, Monthly.</b> (9 pp.) Cargoes loaded and unloaded, by selected commodities and geographic area; number and registered net tonnage of vessels arrived and departed; cargoes loaded and unloaded at selected ports, by selected commodities .....	20¢, \$2.00 a year
<b>Annual</b>		
54-201	<b>Canal Statistics.</b> (approx. 80 pp.) Location and description of all canals; historical summary; traffic, by kind of vessel, by registry of vessel, by length of vessel; number and tonnage of vessels, by direction, by origin and destination; number and tonnage of vessels, by registry and rig, by kind and length, by kind and draft; cargo tons, by direction, by country of origin and destination; cargo tons, by direction, by registry of vessel; cargo tons, by kind, by gross tonnage, and by number of vessels; commodities, by direction, by country of origin and destination; freight charges for wheat, barley, oats, flax, and rye .....	\$1.00
54-202	<b>Shipping Report: Part I, International Seaborne Shipping (by Country).</b> (approx. 160 pp.) Cargoes loaded and unloaded, by country of origin or destination, by commodity, by registry of vessel, and by geographic area; cargoes loaded and unloaded, by commodity and geographic area; number and registered net tonnage of, and tons of cargo carried by, vessels arrived and departed, by registry of vessel and geographic area .....	1.50
54-203	<b>Shipping Report: Part II, International Seaborne Shipping (by Port).</b> (approx. 75 pp.) Cargoes loaded and unloaded, by port and commodity; number and registered net tonnage of vessels departed, by province and size of vessel, and by rig; number and registered net tonnage of vessels arrived and departed with cargo or in ballast, by port; shipping between Great Lakes ports and foreign countries via the St. Lawrence River; number and gross tonnage of tugs departed, by port .....	1.00
54-204	<b>Shipping Report: Part III, Coastwise Shipping.</b> (approx. 105 pp.) Cargoes loaded and unloaded, by port and commodity; cargoes loaded and unloaded, by commodity and geographic area; number and registered net tonnage of vessels arrived and departed with cargo or in ballast, by port; number and registered net tonnage of vessels departed, by province and size of vessel, and by rig; number and gross tonnage of tugs departed, by port; tonnage of cargo unloaded in inter- and intra-provincial trade, by province; cargo loaded and unloaded by vessels of foreign registry, with number of vessels and registered net tonnage .....	1.50
54-206	<b>Shipping Report: Part IV, Origin and Destination for Selected Ports.</b> (approx. 150 pp.) Cargoes loaded and unloaded at Halifax, Saint John, Montreal, Quebec, Hamilton, Port Arthur-Fort William, Toronto, and Vancouver, by country or port of origin or destination, and by commodity. <b>Note:</b> Similar data, available on request, have been tabulated for Bell Island, and Corner Brook, Nfld.; Hantsport and Sydney, N.S.; Baie Comeau, Port Cartier, Port Alfred, Sept Îles, Sorel and Trois Rivières, P.Q.; Port Colborne, Sarnia, Sault Ste. Marie and Windsor, Ont.; New Westminster, Victoria and Powell River, B.C. Corresponding information for all other Canadian ports can be tabulated upon request .....	1.50
54-207	<b>Shipping Report: Part V, Origin and Destination for Selected Commodities.</b> (approx. 55 pp.) Tonnage of wheat, other grain, pulpwood, iron ore, bituminous coal, gypsum, newsprint, and fuel oil, loaded and unloaded, by country or port of origin or destination .....	.75
54-208	<b>Shipping Report: Part VI, Commodity Flow Charts for Selected Commodities</b> (approx. 25 pp.) Charts illustrating the movements of wheat, other grain, pulpwood, iron ore, bituminous coal, gypsum, newsprint, and fuel oil, loaded and unloaded, in International Seaborne and Coastwise Shipping .....	.75
54-205	<b>Water Transportation.</b> (approx. 22 pp.) Statistics on the for-hire water transportation industry - number of vessels, number and salaries and wages of employees, revenue and expense, quantity and cost of fuel and lubricating oils consumed, property, number of deaths or injuries caused by accidents, number and value of ships destroyed or lost at sea, for operators of owned and/or chartered vessels, by revenue class and by division; number of vessels, property, revenue and expense, for owners of vessels chartered bareboat to others .....	.50

*Remittances should be in the form of cheque or money order, made payable to the Receiver General of Canada and forwarded to the Publications Distribution, Dominion Bureau of Statistics, Ottawa, or to the Queen's Printer, Hull, P. Q.*

## INTRODUCTION

This is the first issue of the *Shipping Report Part VI* entitled "Commodity Flow Charts". It illustrates 1963 and 1964 foreign and coastwise movements of the eight most significant selected commodities in Canadian waterborne commerce—wheat, other grain, pulpwood, iron ore, bituminous coal, gypsum, newsprint, and fuel oil.

Only movements in the Great Lakes, St. Lawrence River, and Atlantic Coast area are presented in this report; however, tabular data covering activity on the West Coast may be obtained from the *Shipping Report Part V*.

The commodity flow charts should be used in conjunction with Tables 29 and 30 of *Part V* since the prime purpose of these charts is to depict the direction and density of total waterborne traffic, and not to trace the individual cargo movements. Other information, such as the total volume of cargo handled at a particular port, may be obtained from other published data.

### Source

Shipping statistics are compiled from reports completed by operators or agents of vessels arriving and departing Canadian ports. All vessels are required to submit reports excepting naval or fishing vessels and vessels of less than fifteen registered net tons. Customs officials act as agents for the Dominion Bureau of Statistics in collecting reports at customs ports; returns from non-customs ports are forwarded through the nearest customs office.

### Treatment of Data

The term "international seaborne shipping" is used for vessels classed as being in foreign service, that is when (1) the vessel arrives from or departs for a foreign port; or (2) cargo is loaded for or unloaded from a foreign port; or (3) the registry of the vessel is other than Canadian or British Commonwealth (even though the vessel may have sailed between two Canadian ports).

A vessel is classed as being in coasting service if (1) it is of Canadian or British Commonwealth registry, sails between two Canadian ports, and loads or unloads no foreign freight; or if (2) it is of foreign registry, but is granted a waiver to engage in coasting service.

For the purpose of this publication, iron ore (crude and concentrates, calcined, roasted or treated) includes ilmenite ore mined at Havre St. Pierre; the term "other grain" refers to barley, corn, oats and rye.

The table headed "Movements not Included in Flow" is provided as a means of reconciling these charts with data in the *Shipping Report Part V*, and covers tonnages for those ports not individually identified in shipping tabulations. The table "Movements to and from Foreign Areas" provides a breakdown by area of origin and destination of the cargo moving into or from the mapped territory.

The letter "L" refers to the tonnage of the selected commodity loaded at a particular port, and "U" to the volume unloaded. Arrows indicate the direction of traffic and the accompanying figures indicate the total tonnage transported past that point. Branches or feeder lines from the main flow into and from a port indicate the volume of cargo received and shipped.

The coastwise flow chart for fuel oil traffic excludes movements under 2,000 tons and ports handling less than 5,000 tons, since a great number of minor movements and ports would otherwise be involved. Their inclusion would perhaps result in congestion and confusion, as in several instances these ports are located in a relatively small geographic area. However, complete detail for movements of fuel oil may be found in the coastwise tables of the *Shipping Report Part V*.

To provide more information, these charts contain data for certain individual United States ports, although they were combined into U.S. Atlantic and Gulf, Great Lakes, and Pacific Ports elsewhere in the 1963 *Shipping Report*. Starting with the 1964 *Shipping Report*, published origin and destination statistics include information on port-to-port traffic when certain selected U.S. centres are involved in Canadian foreign trade.

The appendix contains a list of the countries and geographic areas of origin or destination of the commodities which are loaded and unloaded at Canadian ports in international seaborne shipping.

UNIT TABLET



## TABLE OF CONTENTS

Charts illustrating movements of cargo on the Great Lakes, St. Lawrence River and Atlantic Coast area, International and Coastwise, by commodity.

### SECTION I — YEAR 1963

#### Chart

- 1 Wheat — International
- 2 Wheat — Coastwise
- 3 Other Grain — International
- 4 Other Grain — Coastwise
- 5 Pulpwood — International
- 6 Pulpwood — Coastwise
- 7 Iron Ore — International
- 8 Iron Ore — Coastwise
- 9 Bituminous Coal — International
- 10 Bituminous Coal — Coastwise
- 11 Gypsum — International
- 12 Gypsum — Coastwise
- 13 Newsprint — International
- 14 Newsprint — Coastwise
- 15 Fuel Oil — International
- 16 Fuel Oil — Coastwise

### SECTION II — YEAR 1964

#### Chart

- 1 Wheat — International
- 2 Wheat — Coastwise
- 3 Other Grain — International
- 4 Other Grain — Coastwise
- 5 Pulpwood — International
- 6 Pulpwood — Coastwise
- 7 Iron Ore — International
- 8 Iron Ore — Coastwise
- 9 Bituminous Coal — International
- 10 Bituminous Coal — Coastwise
- 11 Gypsum — International
- 12 Gypsum — Coastwise
- 13 Newsprint — International
- 14 Newsprint — Coastwise
- 15 Fuel Oil — International
- 16 Fuel Oil — Coastwise

REVISED TO SHAT

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DATE OF ACQUISITION: 1964-1965

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1. The first part of the document discusses the general principles of the system and the objectives of the project. It outlines the scope of the work and the responsibilities of the various departments involved. The document also mentions the importance of maintaining accurate records and the need for regular communication between all parties.

2. The second part of the document provides a detailed description of the system's components and their functions. It includes a list of the hardware and software used, as well as a description of the data flow and the processing steps. This section is intended to provide a clear understanding of the system's architecture and to serve as a reference for future development and maintenance.

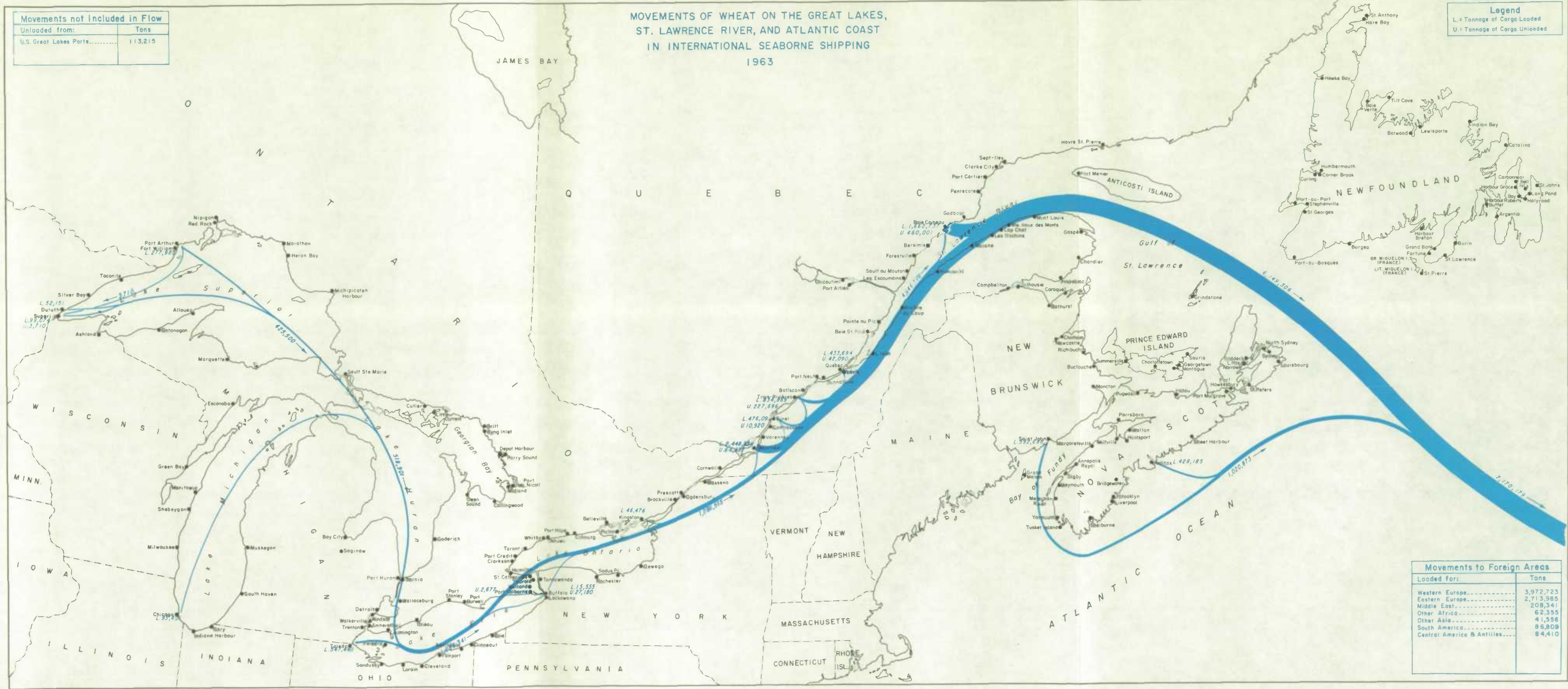
3. The third part of the document describes the implementation process and the results of the project. It details the challenges encountered during the development and testing phases, and the solutions that were implemented. The document also includes a summary of the system's performance and the feedback received from the users.

4. The fourth part of the document discusses the future plans for the system and the ongoing support and maintenance. It outlines the schedule for updates and improvements, and the procedures for handling user requests and system downtime. This section is intended to ensure that the system remains up-to-date and reliable over its lifetime.

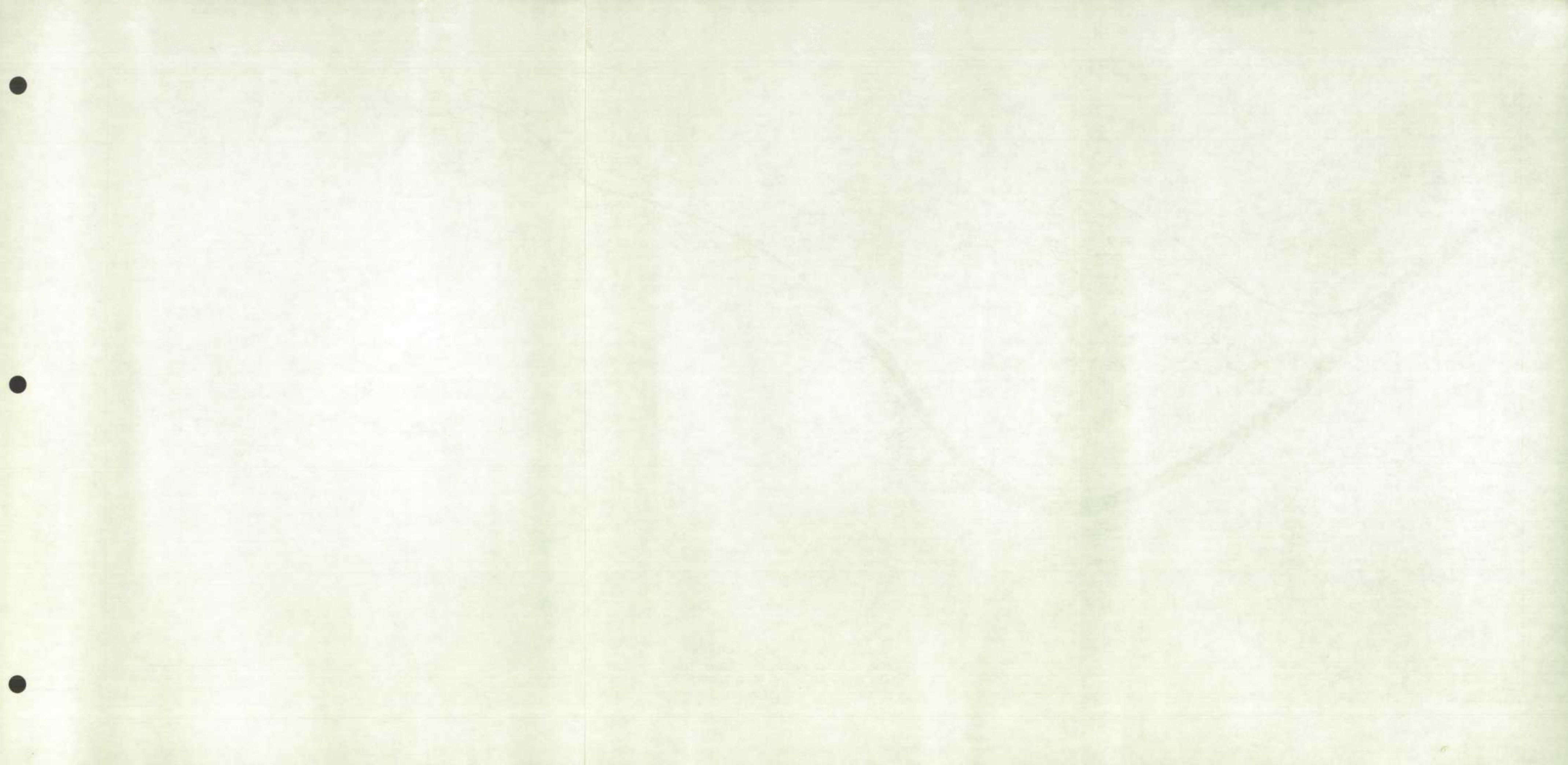
MOVEMENTS OF WHEAT ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN INTERNATIONAL SEABORNE SHIPPING  
1963

Movements not included in Flow	
Unloaded from:	Tons
U.S. Great Lakes Ports.....	113,215

Legend	
L. = Tonnage of Cargo Loaded	
U. = Tonnage of Cargo Unloaded	



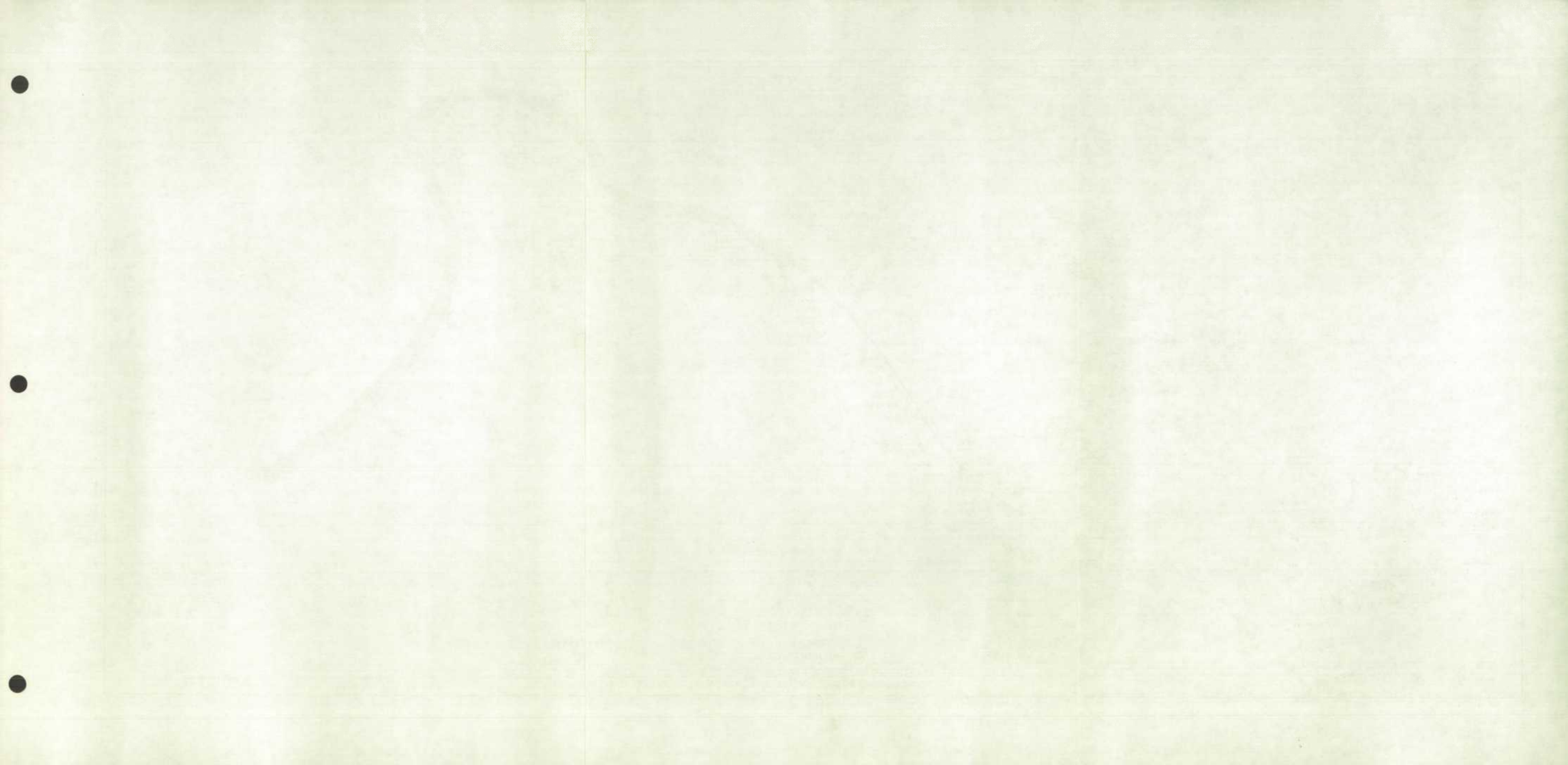
Movements to Foreign Areas	
Loaded for:	Tons
Western Europe.....	3,972,723
Eastern Europe.....	2,713,985
Middle East.....	208,341
Other Africa.....	62,355
South America.....	86,809
Central America & Antilles.....	84,410



MOVEMENTS OF WHEAT ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN COASTWISE SHIPPING 1963

**Legend**  
L.= Tonnage of Cargo Loaded  
U.= Tonnage of Cargo Unloaded





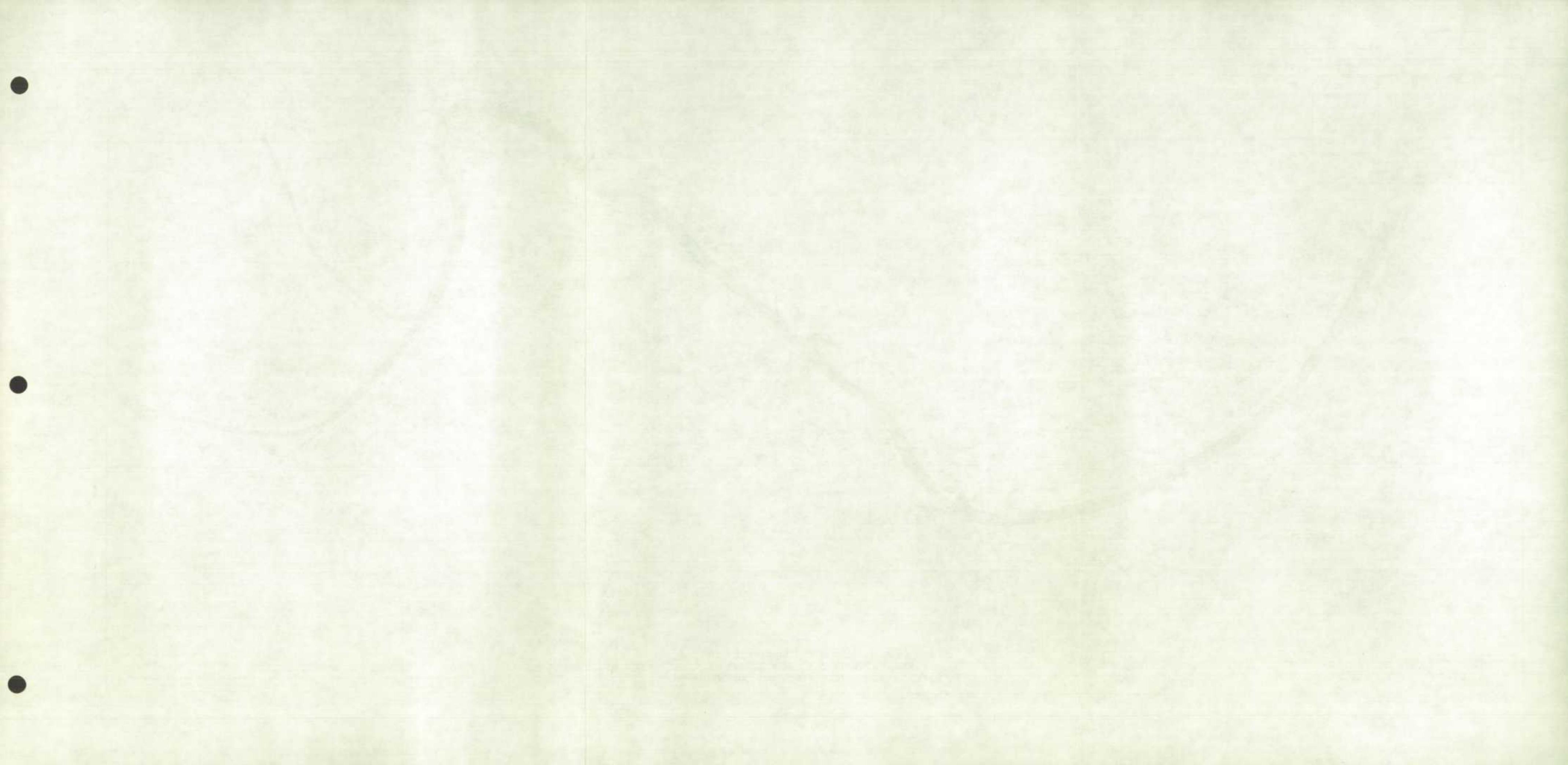
MOVEMENTS OF OTHER GRAIN ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN INTERNATIONAL SEABORNE SHIPPING  
1963

Movements not included in Flow	
Unloaded from:	Tons
U.S. Great Lakes Ports.....	119,227

Legend	
L:	Tonnage of Cargo Loaded
U:	Tonnage of Cargo Unloaded



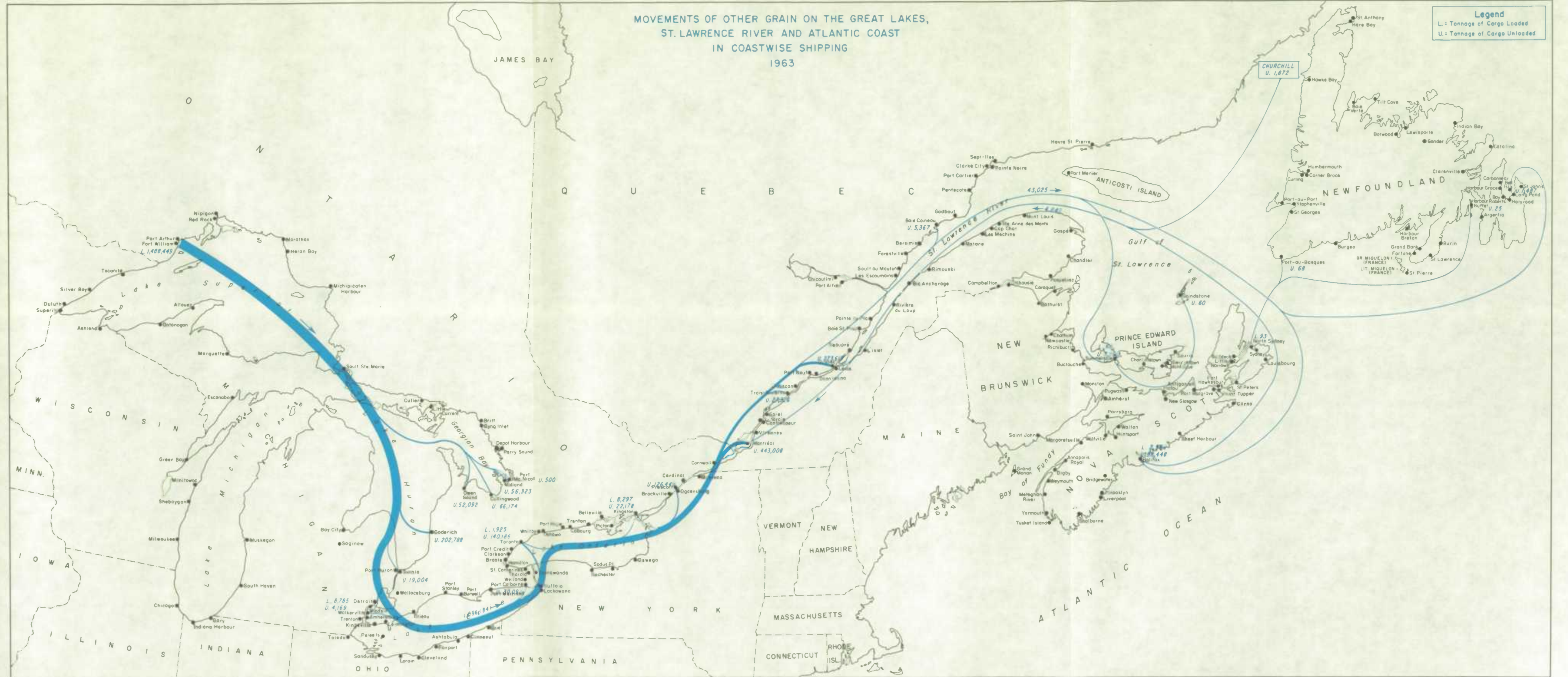
Movements to and from Foreign Areas			
Loaded for:	Tons	Unloaded from:	Tons
Western Europe.....	1,987,100	South America.....	13
Eastern Europe.....	115,902		
Middle East.....	36,120		
Other Africa.....	7,010		
South America.....	3,560		
Central America			
& Antilles.....	318		

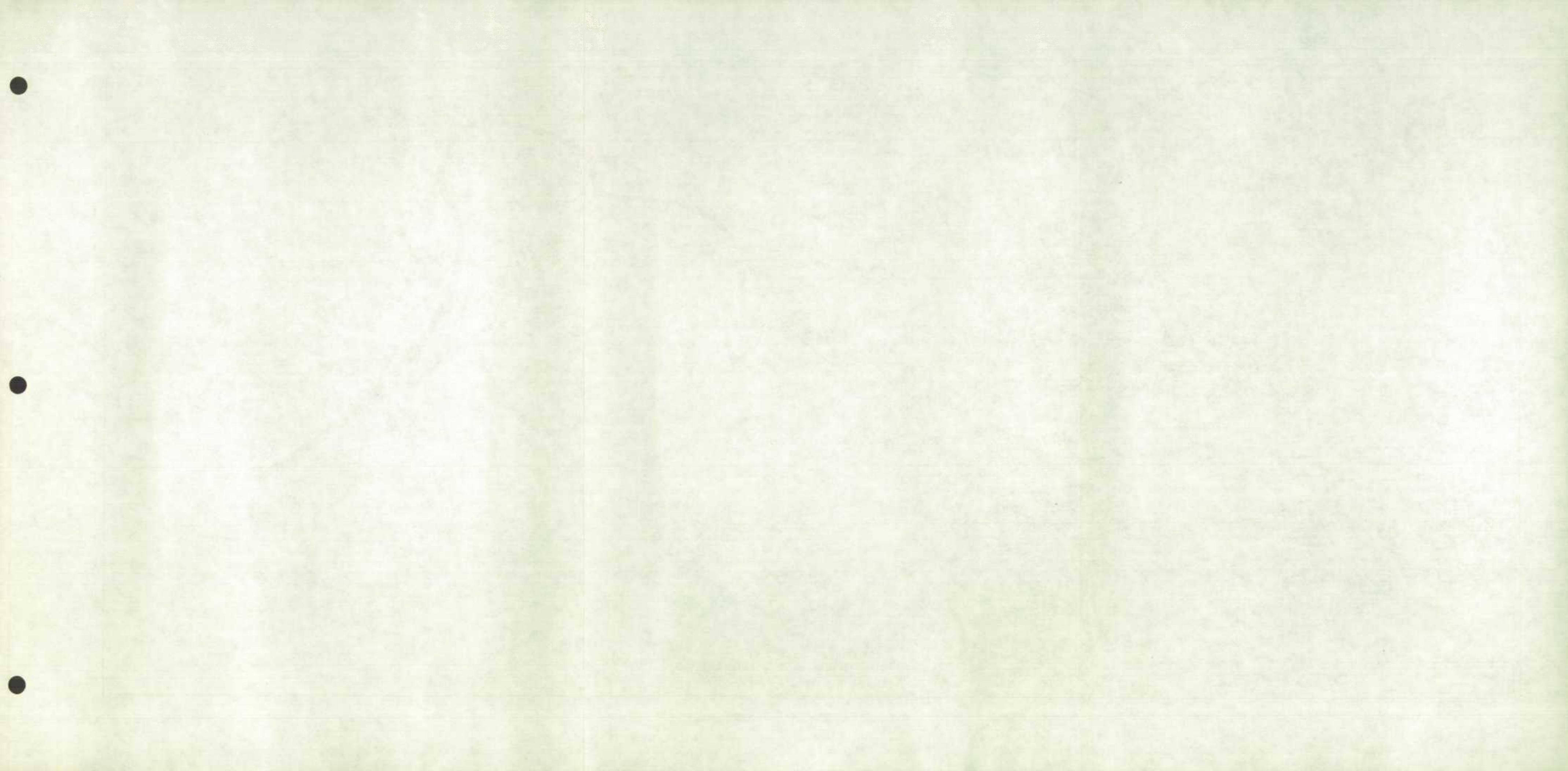




MOVEMENTS OF OTHER GRAIN ON THE GREAT LAKES,  
ST. LAWRENCE RIVER AND ATLANTIC COAST  
IN COASTWISE SHIPPING  
1963

Legend  
L = Tonnage of Cargo Loaded  
U = Tonnage of Cargo Unloaded





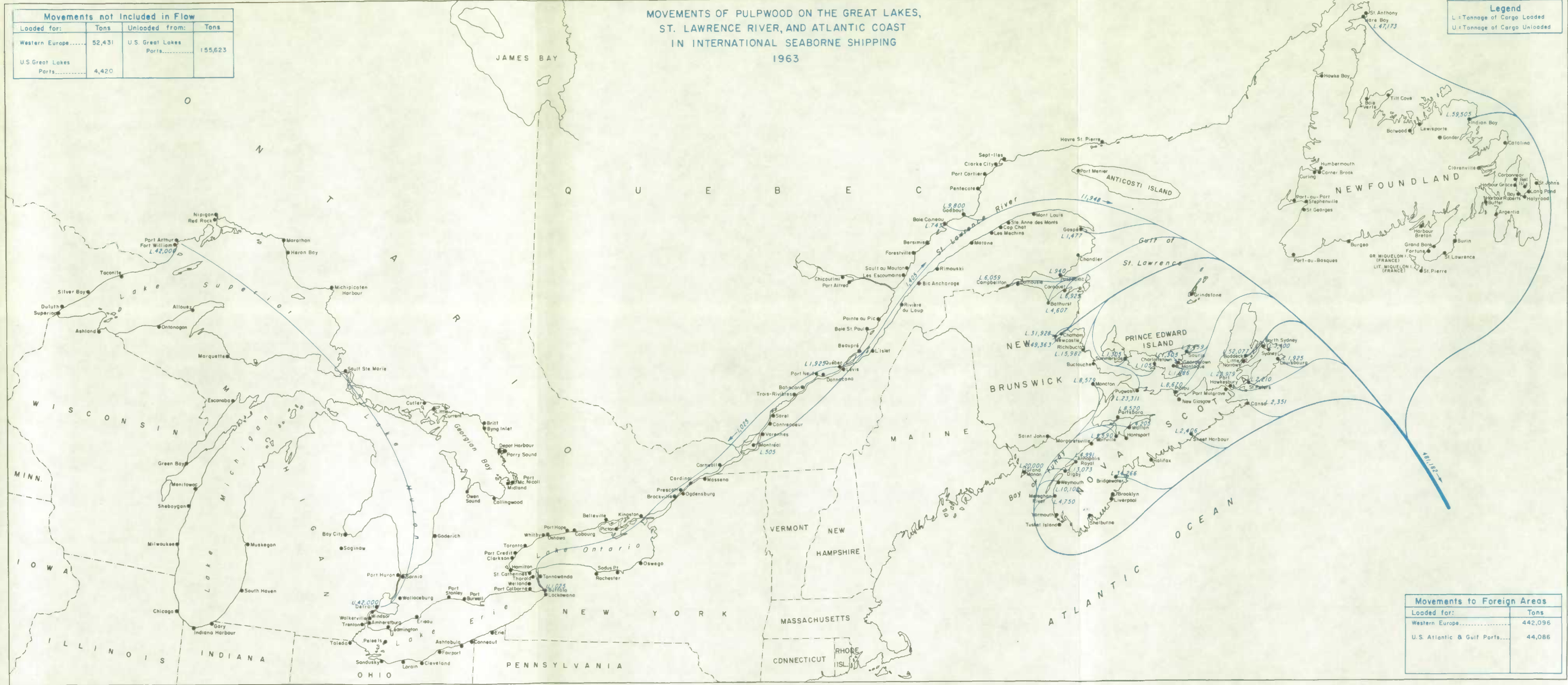
MOVEMENTS OF PULPWOOD ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN INTERNATIONAL SEABORNE SHIPPING  
1963

**Movements not Included in Flow**

Loaded for:	Tons	Unloaded from:	Tons
Western Europe.....	52,431	U.S. Great Lakes Ports.....	155,623
U.S. Great Lakes Ports.....	4,420		

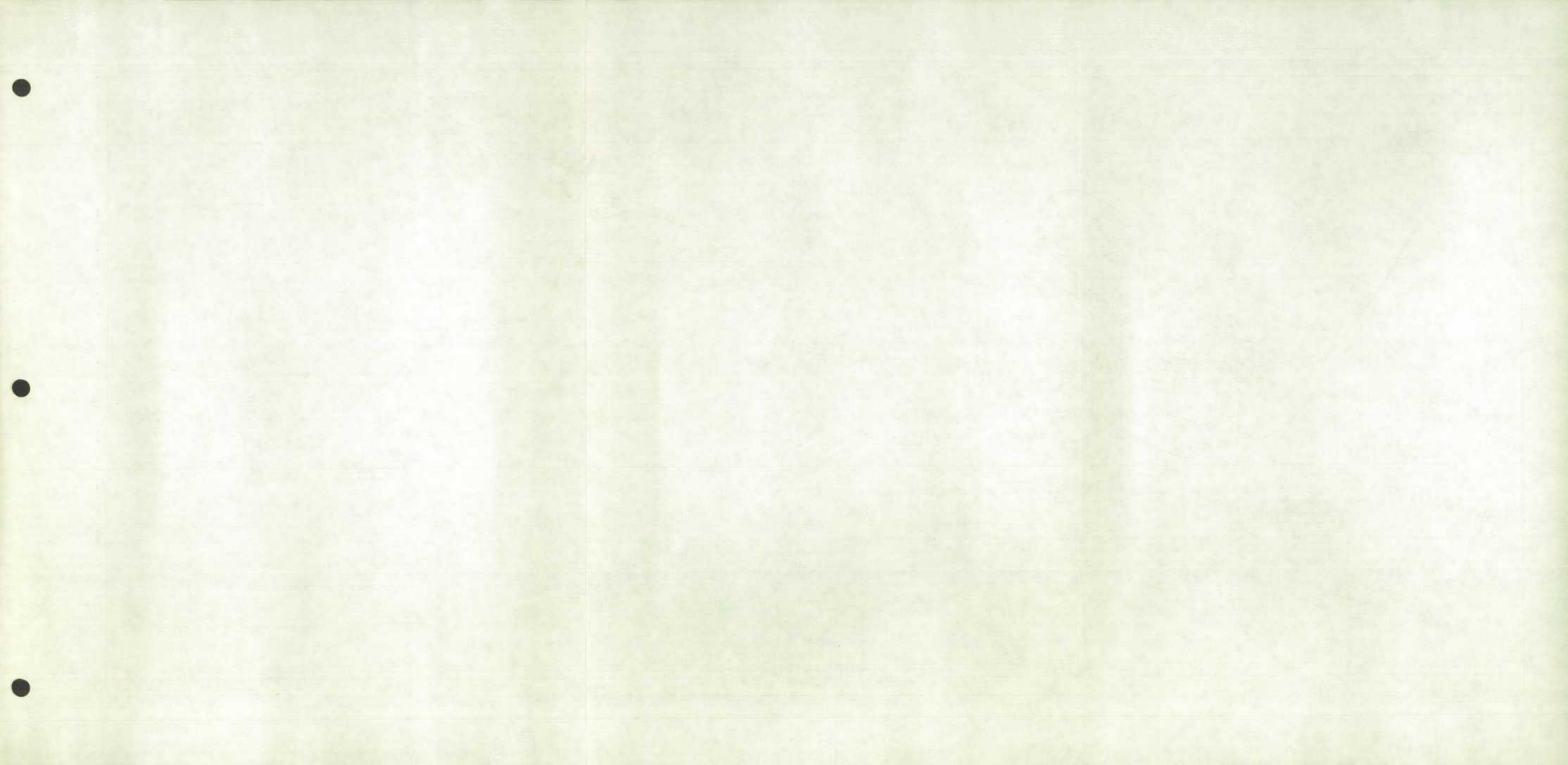
**Legend**

L = Tonnage of Cargo Loaded  
U = Tonnage of Cargo Unloaded



**Movements to Foreign Areas**

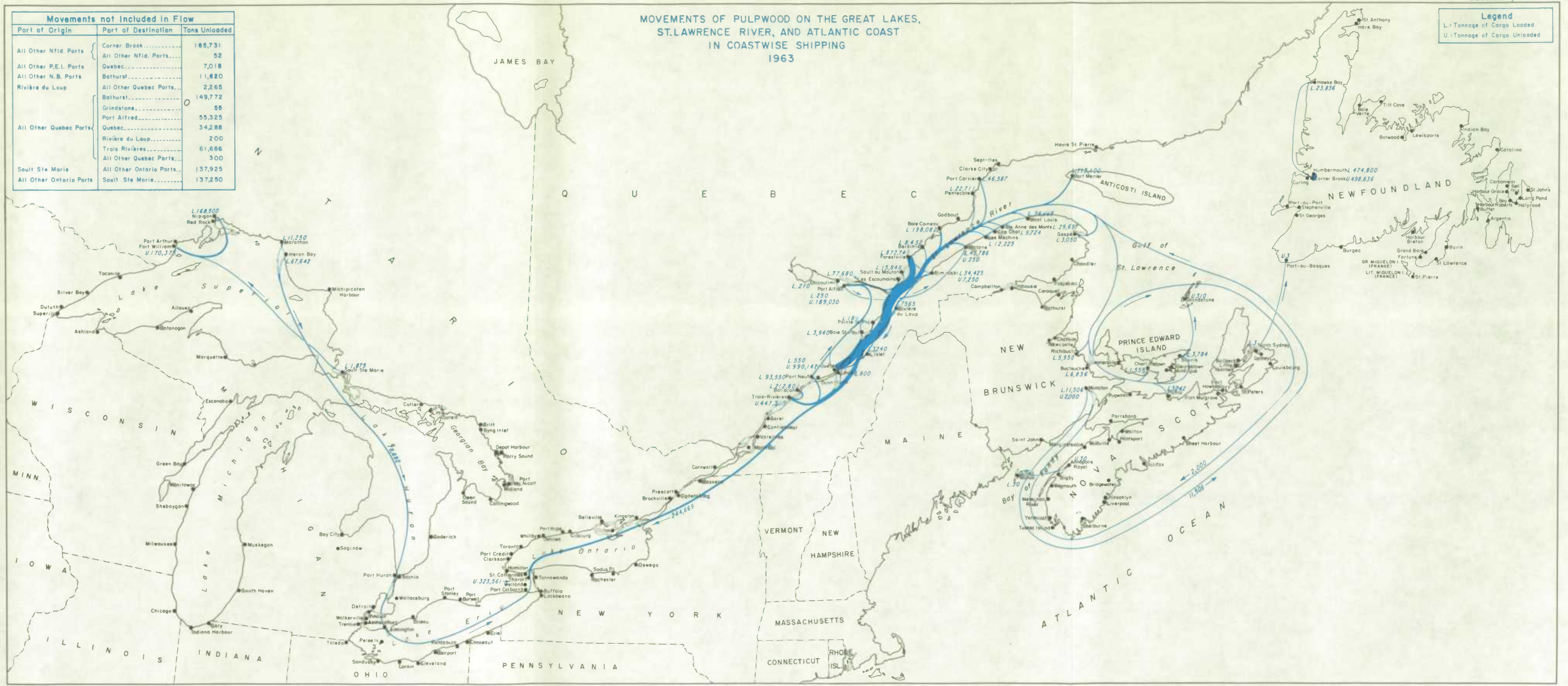
Loaded for:	Tons
Western Europe.....	442,096
U.S. Atlantic & Gulf Ports.....	44,086

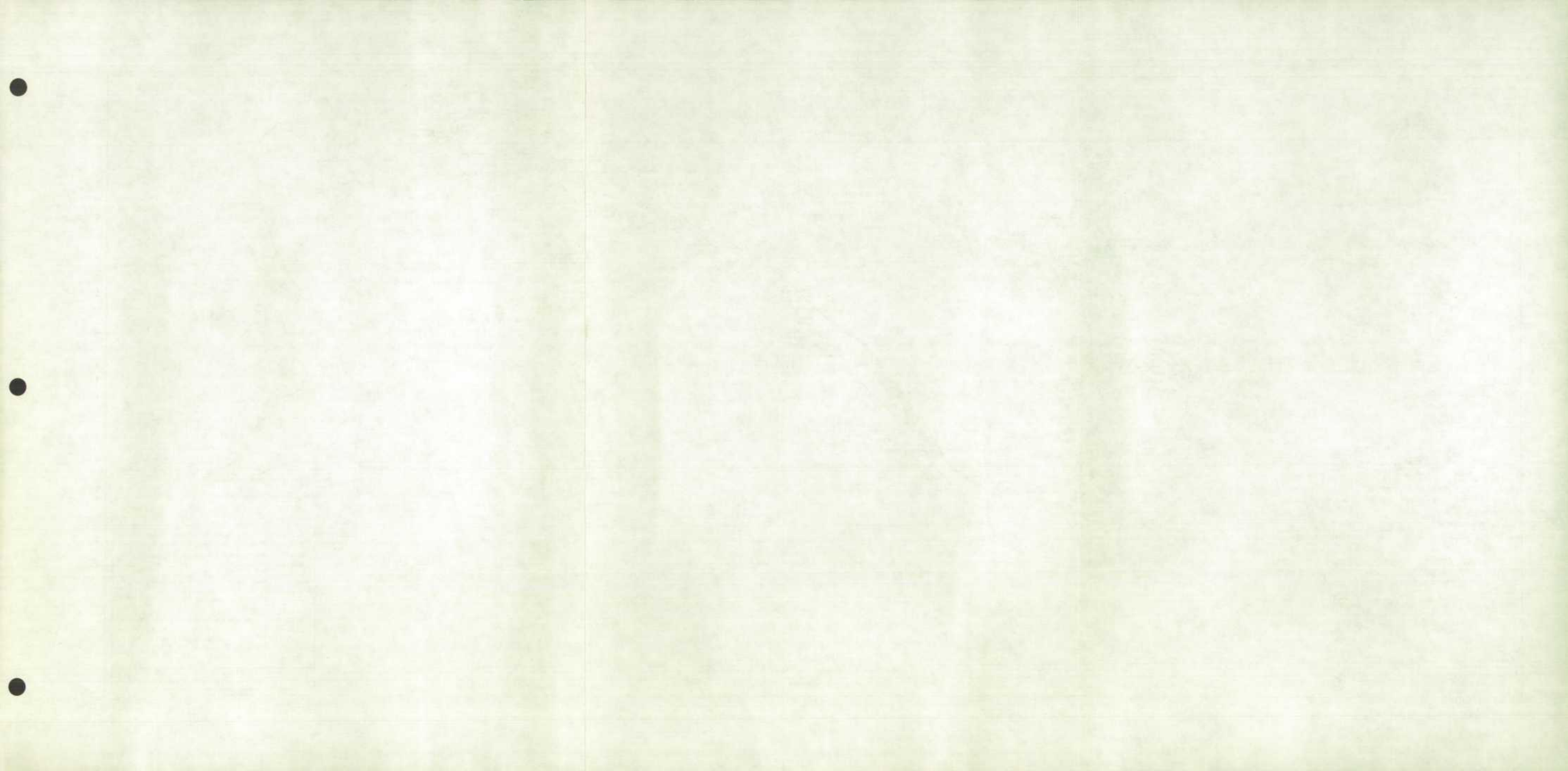


MOVEMENTS OF PULPWOOD ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN COASTWISE SHIPPING  
1963

Movements not included in Flow		
Port of Origin	Port of Destination	Tons Unloaded
All Other Nfld. Ports	Corner Brook.....	166,731
	All Other Nfld. Ports.....	52
All Other P.E.I. Ports	Quebec.....	7,018
All Other N.B. Ports	Bathurst.....	11,620
Rivière du Loup	All Other Quebec Ports.....	2,265
	Bathurst.....	149,772
All Other Quebec Ports	Grindstone.....	55
	Port Alfred.....	55,325
	Quebec.....	34,288
	Rivière du Loup.....	200
Sault Ste Marie	Trois Rivières.....	61,686
	All Other Quebec Ports.....	300
All Other Ontario Ports	All Other Ontario Ports.....	137,925
	Sault Ste Marie.....	137,250

**Legend**  
L.: Tonnage of Cargo Loaded  
U.: Tonnage of Cargo Unloaded

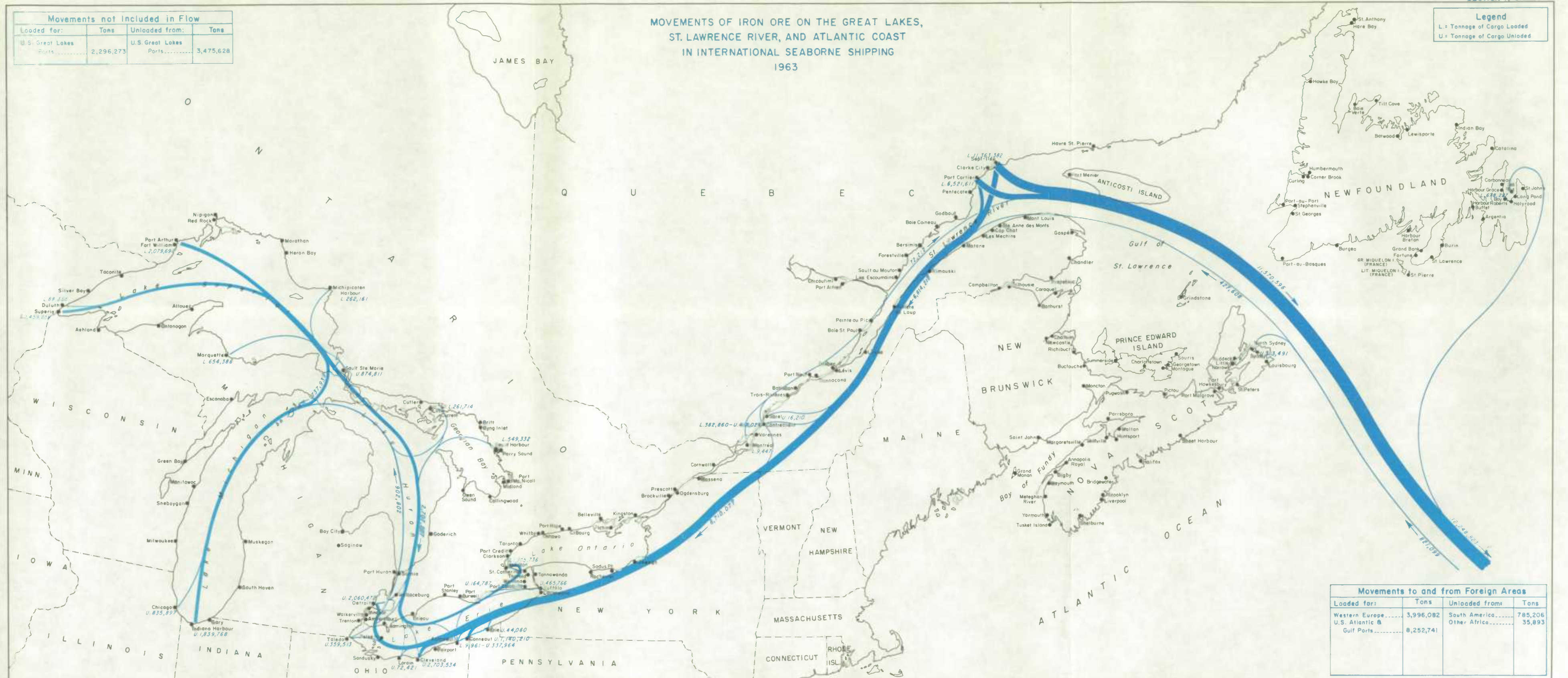




MOVEMENTS OF IRON ORE ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN INTERNATIONAL SEABORNE SHIPPING  
1963

Movements not Included in Flow			
Loaded for:	Tons	Unloaded from:	Tons
U.S. Great Lakes Ports.....	2,296,273	U.S. Great Lakes Ports.....	3,475,628

Legend			
L=	Tonnage of Cargo Loaded		
U=	Tonnage of Cargo Unloaded		



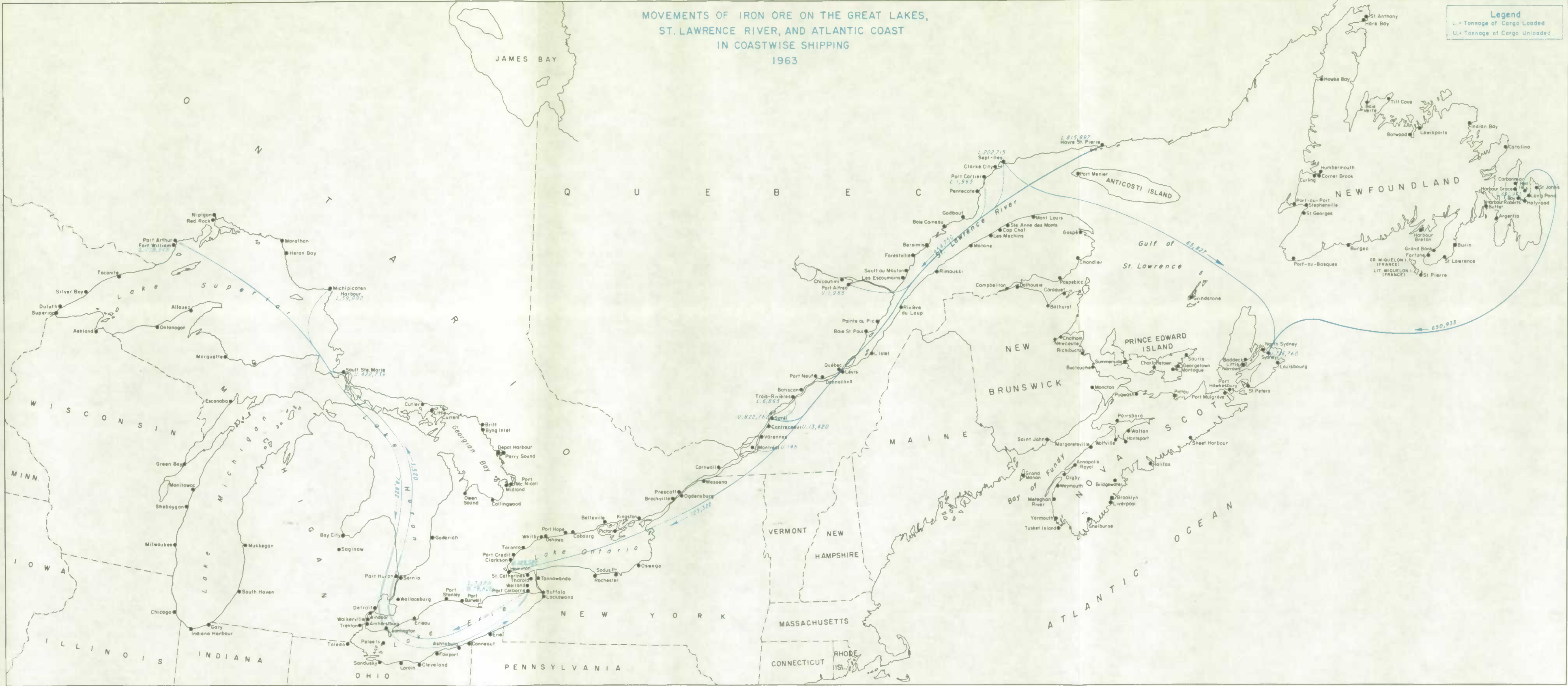
Movements to and from Foreign Areas			
Loaded for:	Tons	Unloaded from:	Tons
Western Europe.....	3,996,082	South America.....	785,206
U.S. Atlantic & Gulf Ports.....	8,252,741	Other Africa.....	35,893

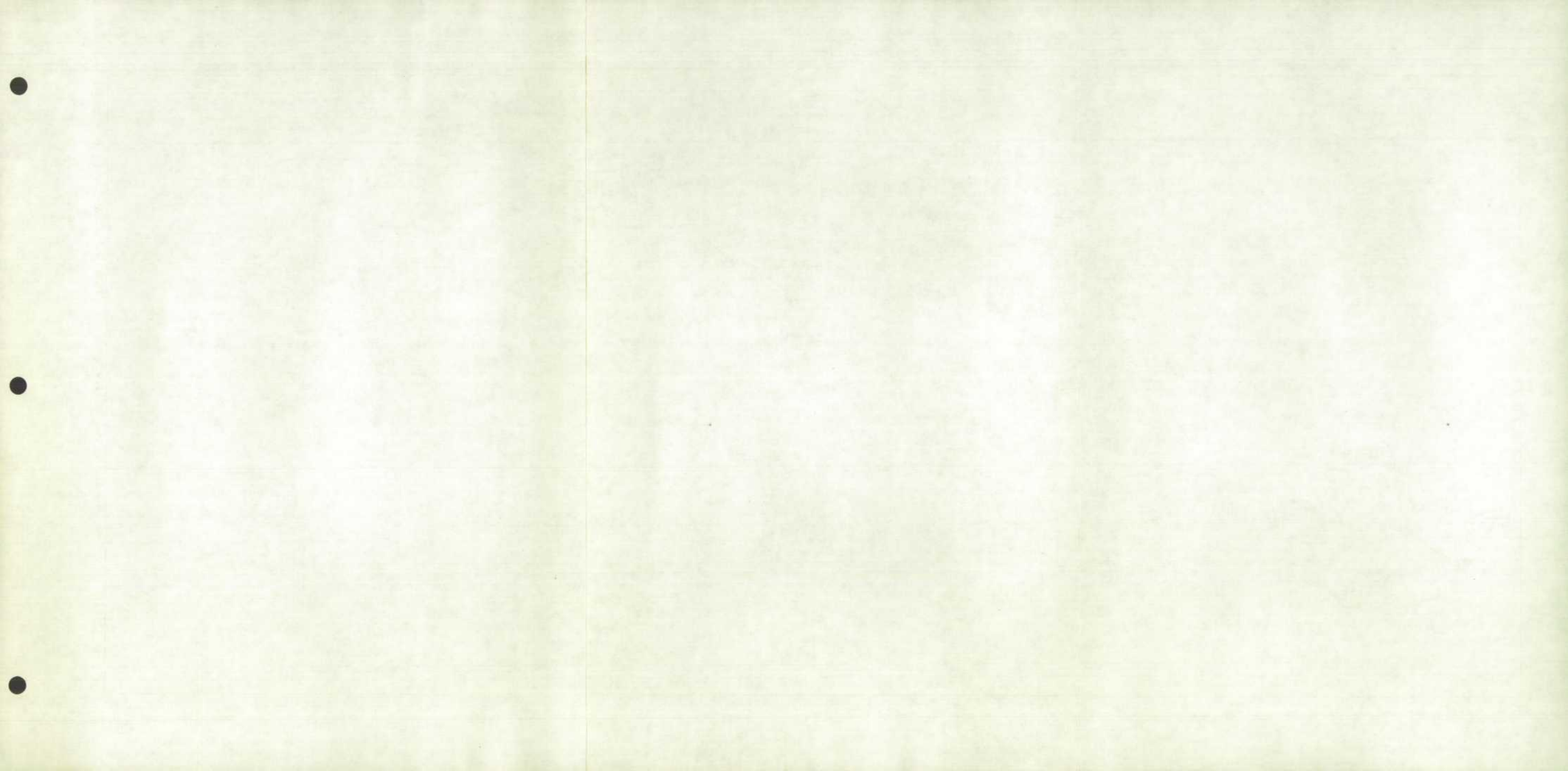




### MOVEMENTS OF IRON ORE ON THE GREAT LAKES, ST. LAWRENCE RIVER, AND ATLANTIC COAST IN COASTWISE SHIPPING 1963

**Legend**  
 L: Tonnage of Cargo Loaded  
 U: Tonnage of Cargo Unloaded

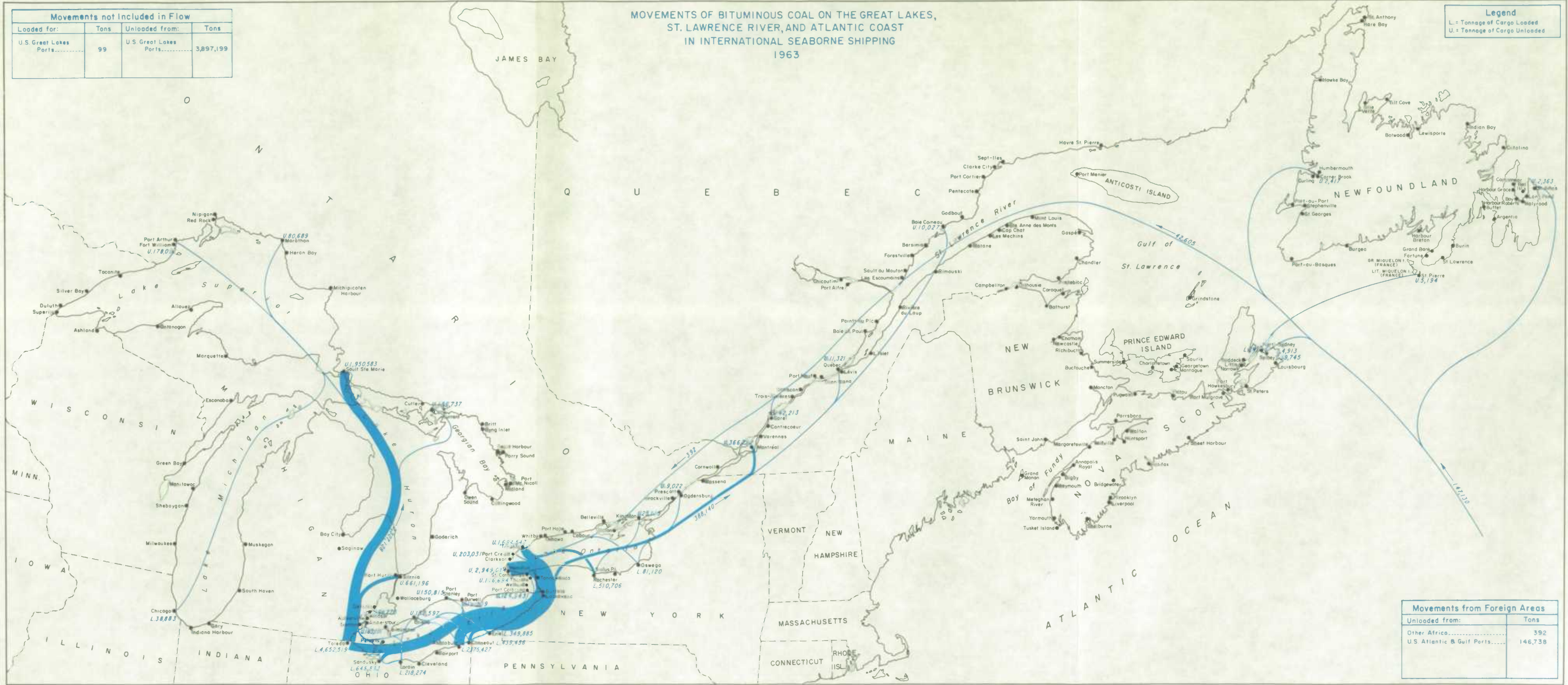




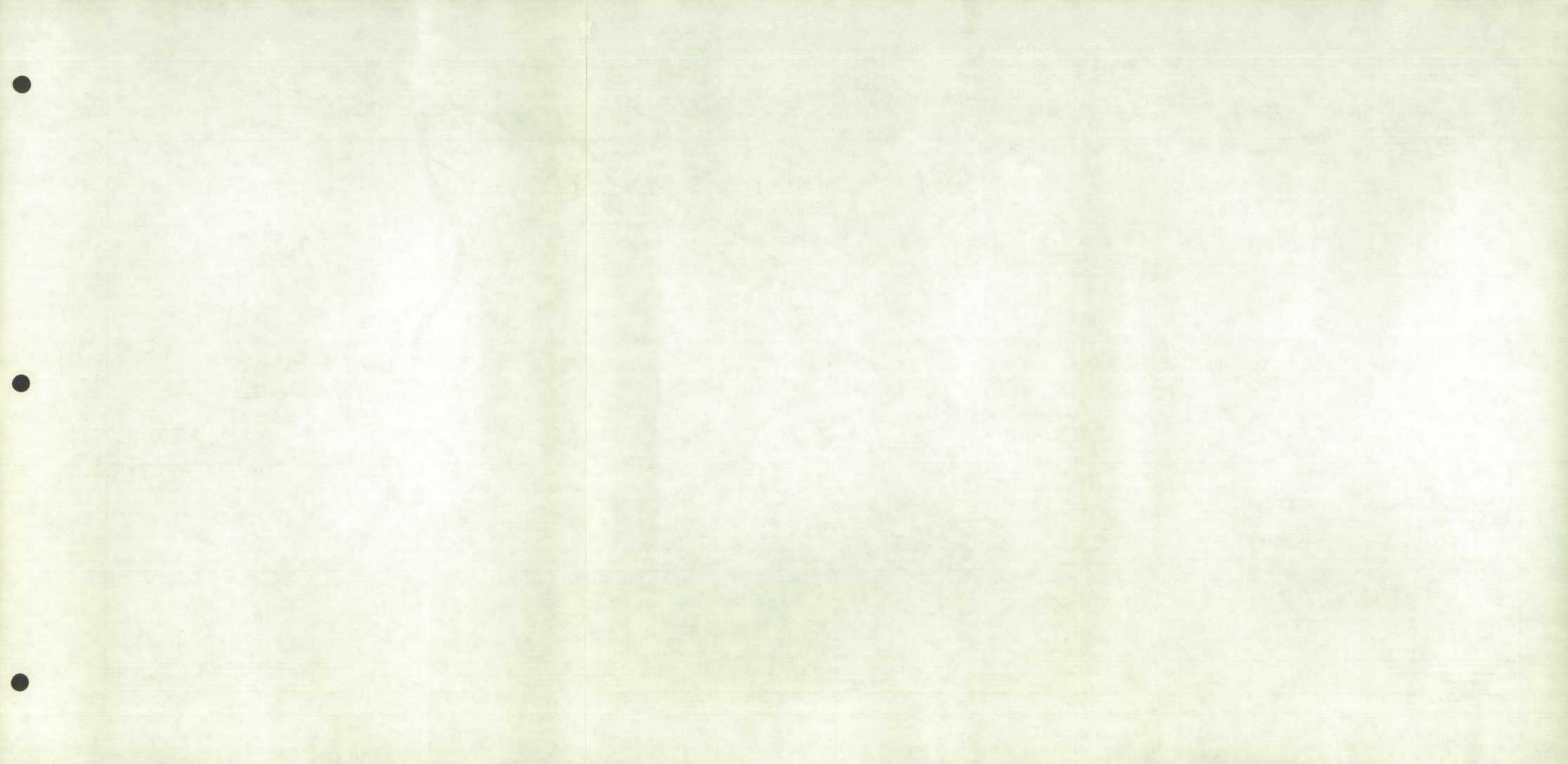
MOVEMENTS OF BITUMINOUS COAL ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN INTERNATIONAL SEABORNE SHIPPING  
1963

Movements not Included in Flow			
Loaded for:	Tons	Unloaded from:	Tons
U.S. Great Lakes Ports.....	99	U.S. Great Lakes Ports.....	3,897,199

Legend	
L = Tonnage of Cargo Loaded	
U = Tonnage of Cargo Unloaded	



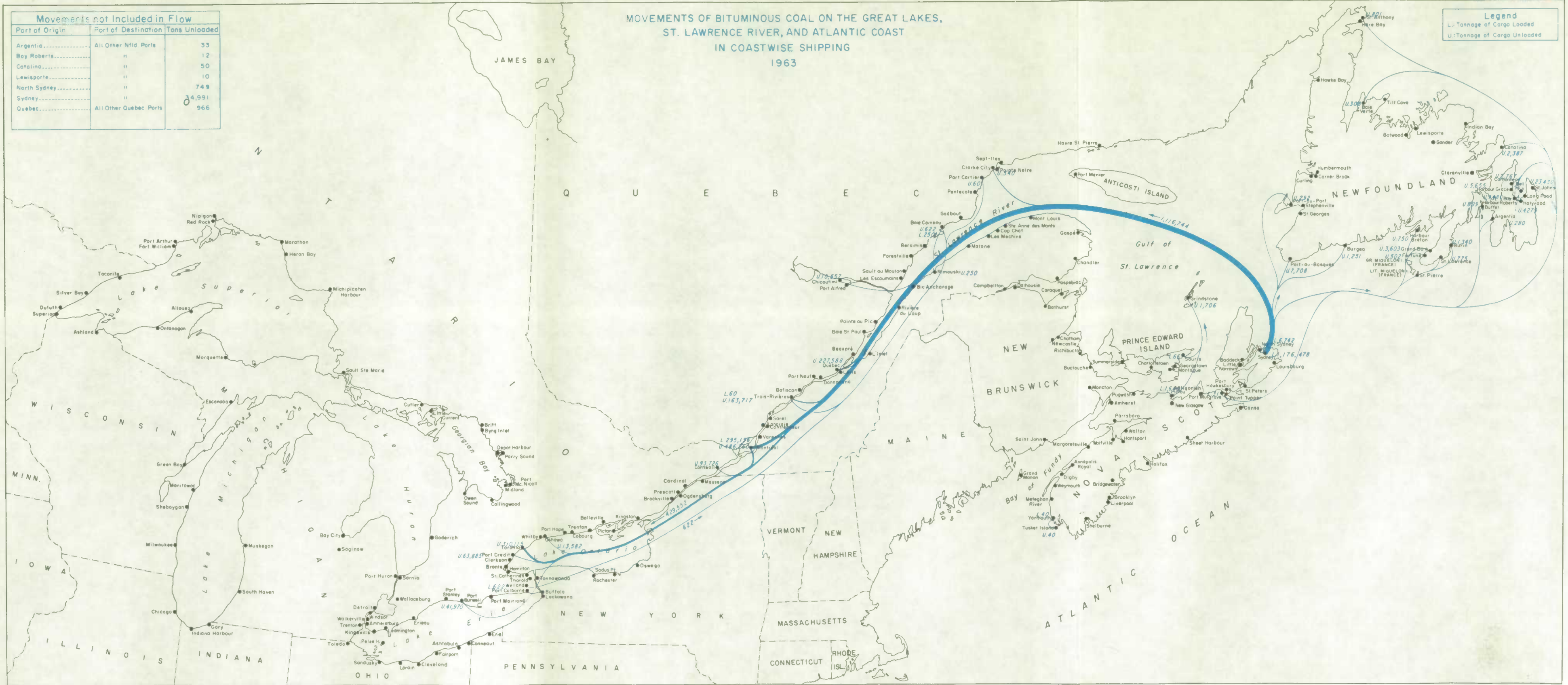
Movements from Foreign Areas	
Unloaded from:	Tons
Other Africa.....	392
U.S. Atlantic & Gulf Ports.....	146,738



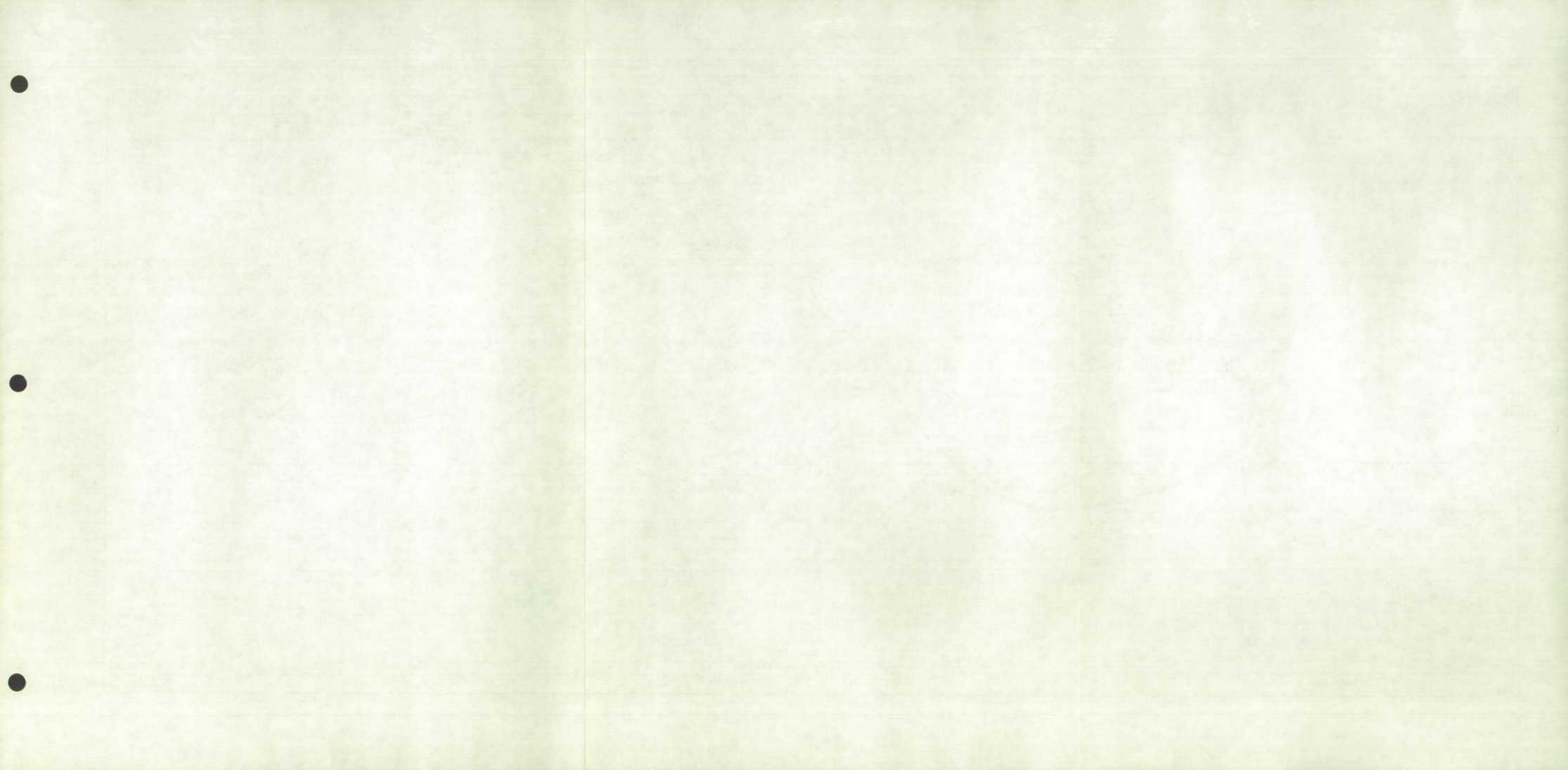
MOVEMENTS OF BITUMINOUS COAL ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN COASTWISE SHIPPING  
1963

Movements not Included in Flow		
Part of Origin	Part of Destination	Tons Unloaded
Argenta.....	All Other Nfld. Ports	33
Bay Roberts.....	"	12
Catolano.....	"	50
Lewisporte.....	"	10
North Sydney.....	"	749
Sydney.....	"	34,991
Quebec.....	All Other Quebec Ports	966

Legend  
L: Tonnage of Cargo Loaded  
U: Tonnage of Cargo Unloaded



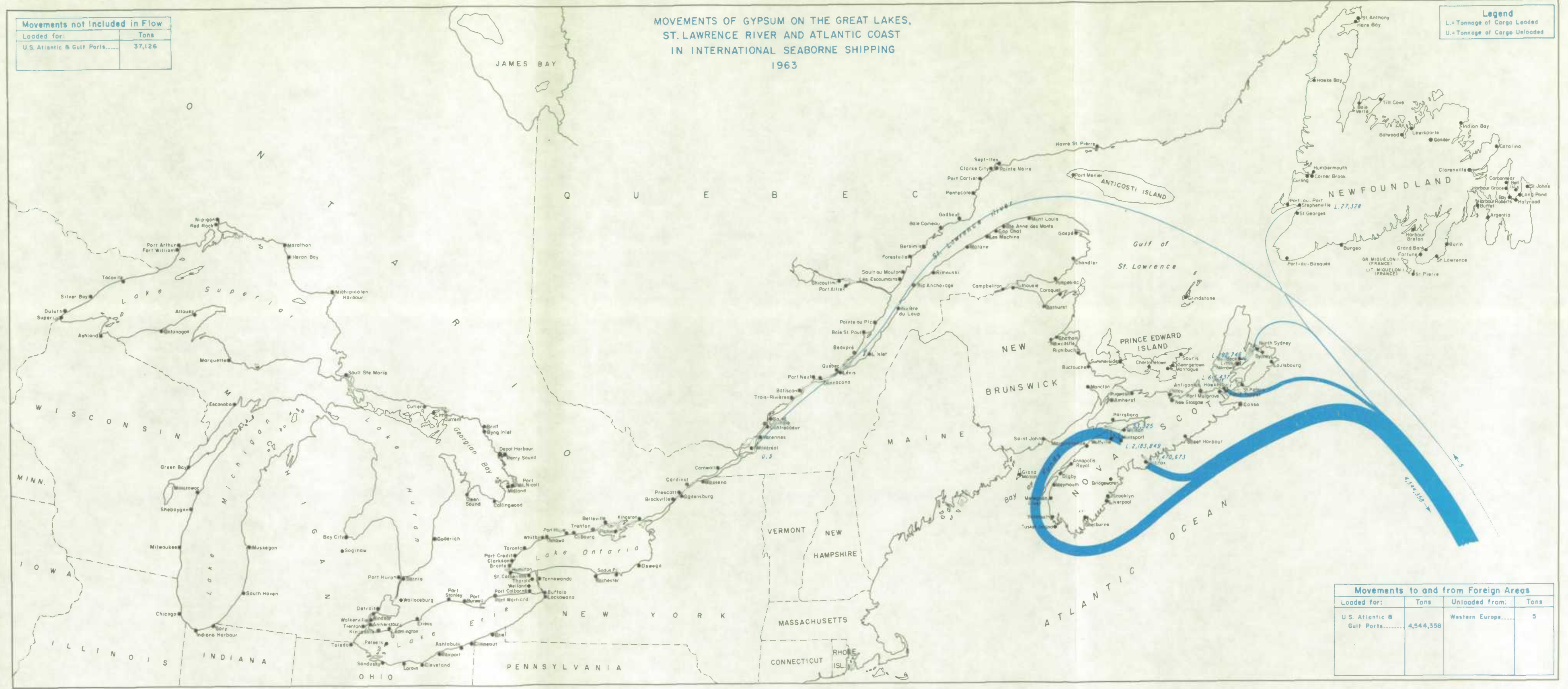
Port of Origin	Port of Destination	Tons Unloaded
Argenta	All Other Nfld. Ports	33
Bay Roberts	"	12
Catolano	"	50
Lewisporte	"	10
North Sydney	"	749
Sydney	"	34,991
Quebec	All Other Quebec Ports	966



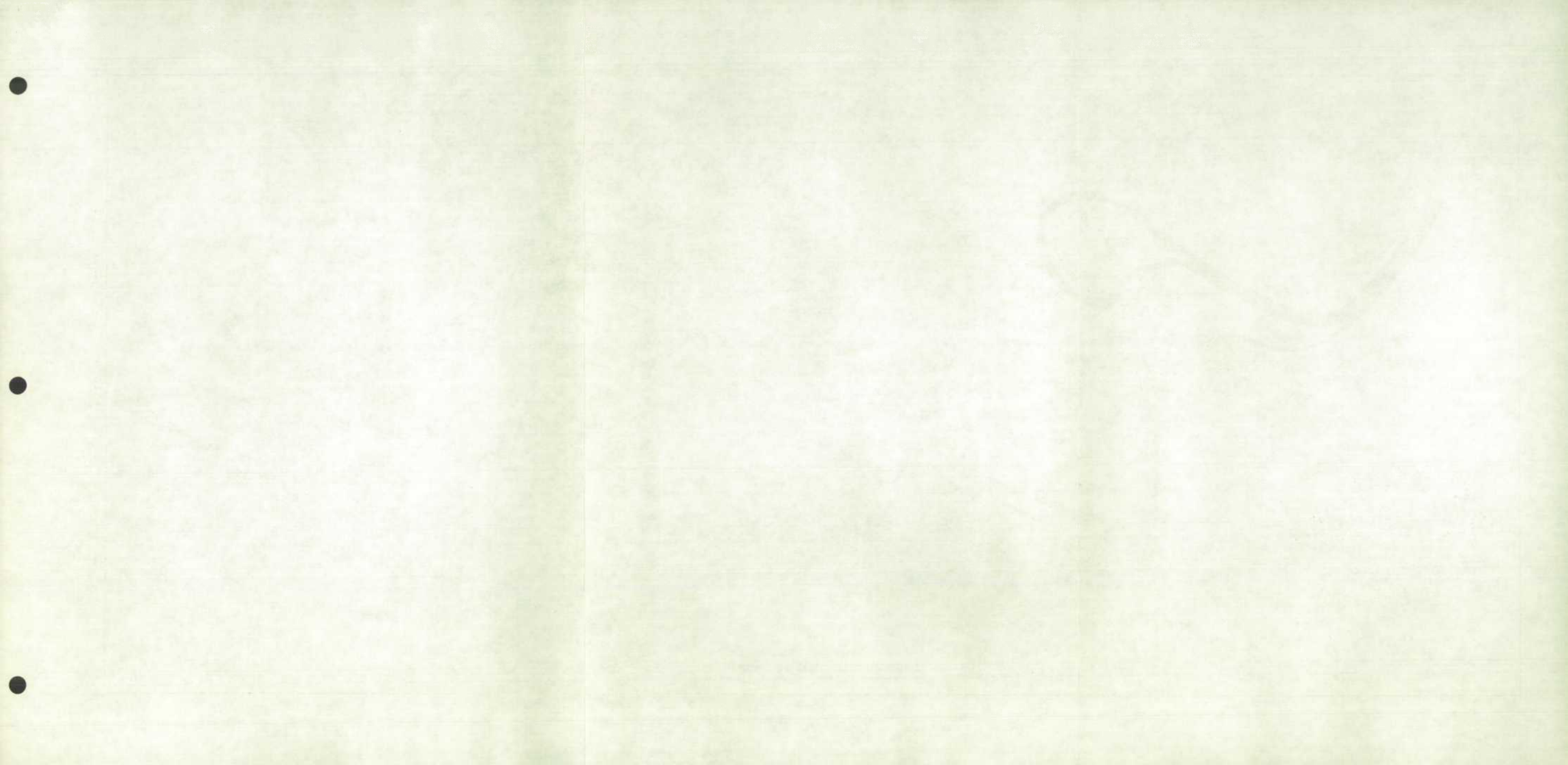
MOVEMENTS OF GYPSUM ON THE GREAT LAKES,  
ST. LAWRENCE RIVER AND ATLANTIC COAST  
IN INTERNATIONAL SEABORNE SHIPPING  
1963

Movements not included in Flow	
Loaded for:	Tons
U.S. Atlantic & Gulf Ports.....	37,126

Legend	
L=	Tonnage of Cargo Loaded
U=	Tonnage of Cargo Unloaded



Movements to and from Foreign Areas			
Loaded for:	Tons	Unloaded from:	Tons
U.S. Atlantic & Gulf Ports.....	4,544,358	Western Europe.....	5

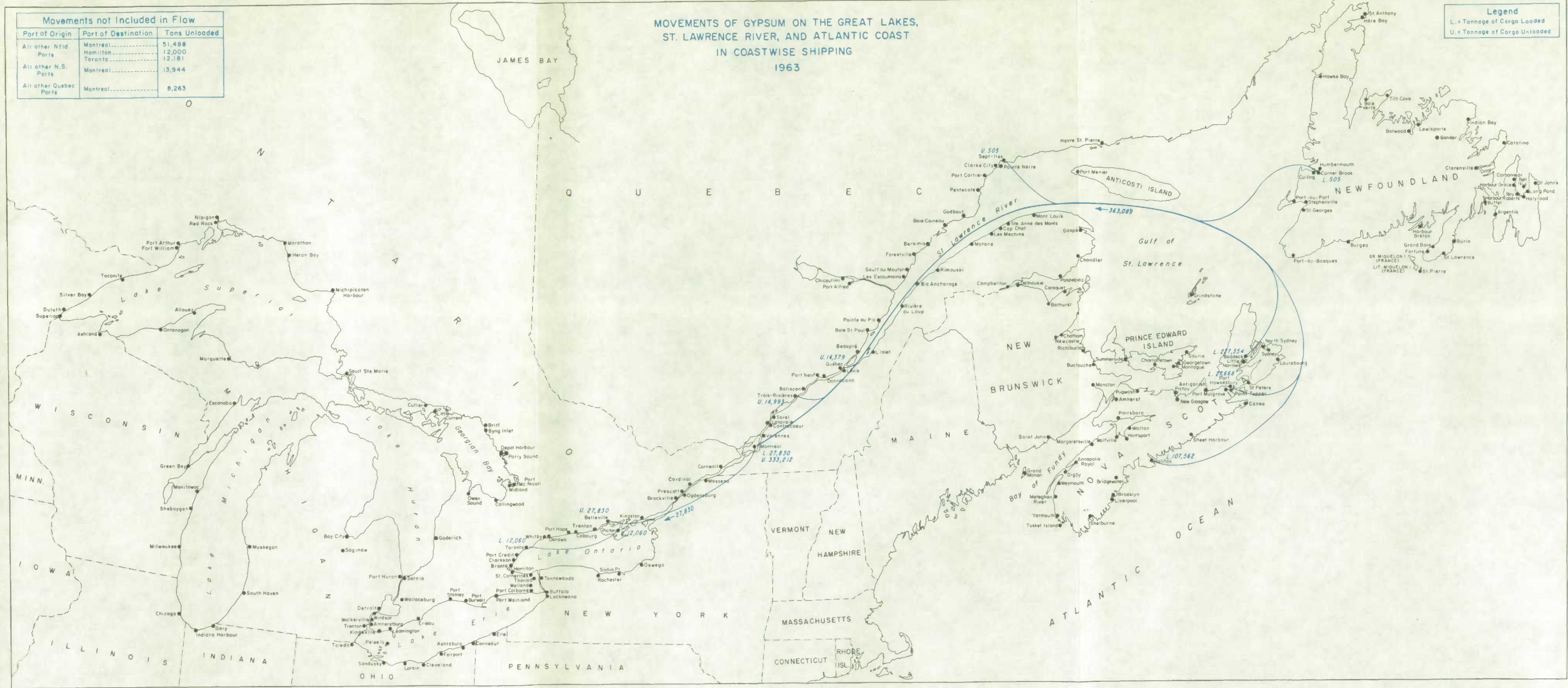


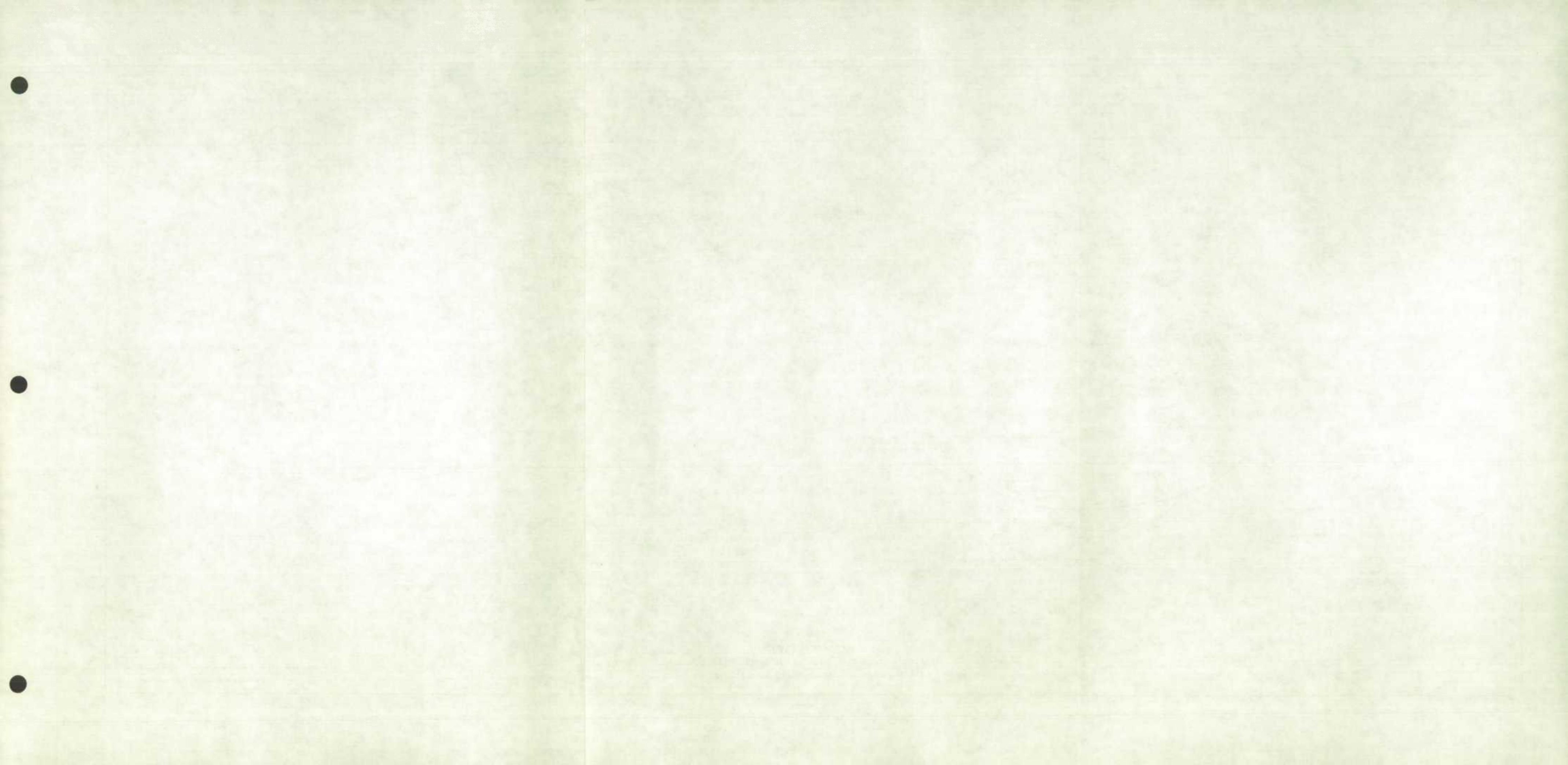


MOVEMENTS OF GYPSUM ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN COASTWISE SHIPPING  
1963

Movements not Included in Flow		
Port of Origin	Port of Destination	Tons Unloaded
All other Nfld. Ports	Montreal	51,488
	Hamilton	12,000
	Toronto	12,181
All other N.S. Ports	Montreal	13,944
All other Quebec Ports	Montreal	8,263

Legend	
L.	Tonnage of Cargo Loaded
U.	Tonnage of Cargo Unloaded

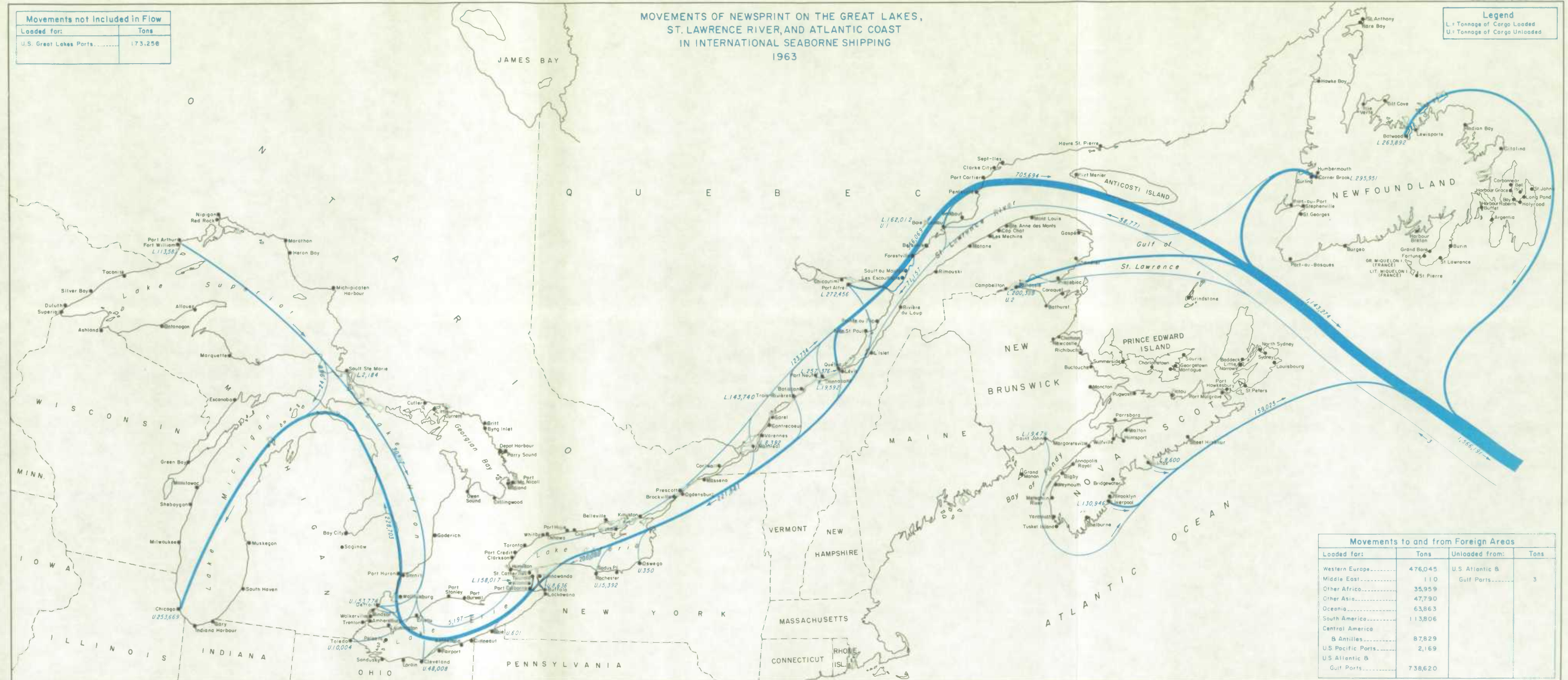




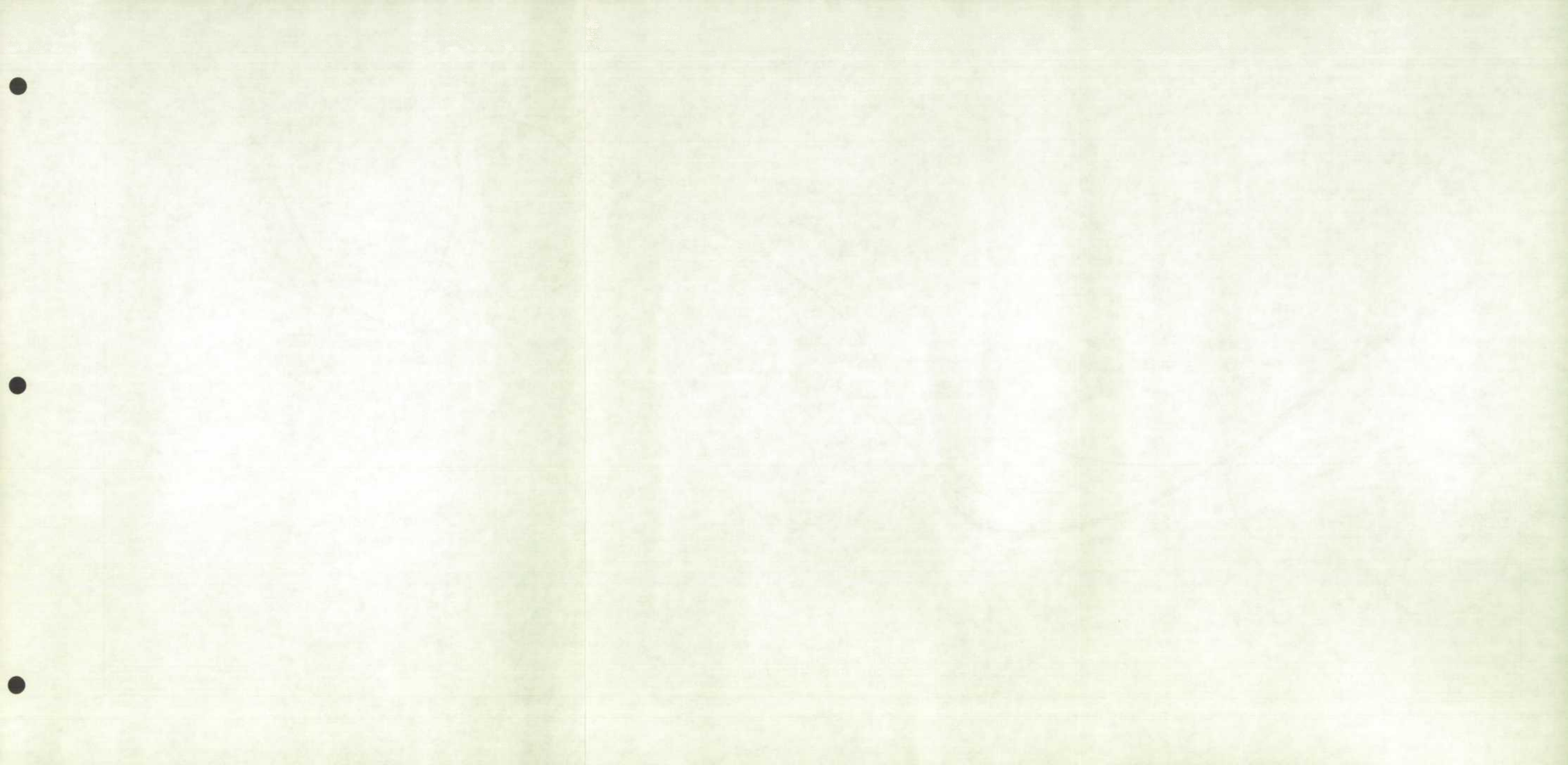
MOVEMENTS OF NEWSPRINT ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN INTERNATIONAL SEABORNE SHIPPING  
1963

Movements not Included in Flow	
Loaded for:	Tons
U.S. Great Lakes Ports.....	173,250

Legend	
L:	Tonnage of Cargo Loaded
U:	Tonnage of Cargo Unloaded

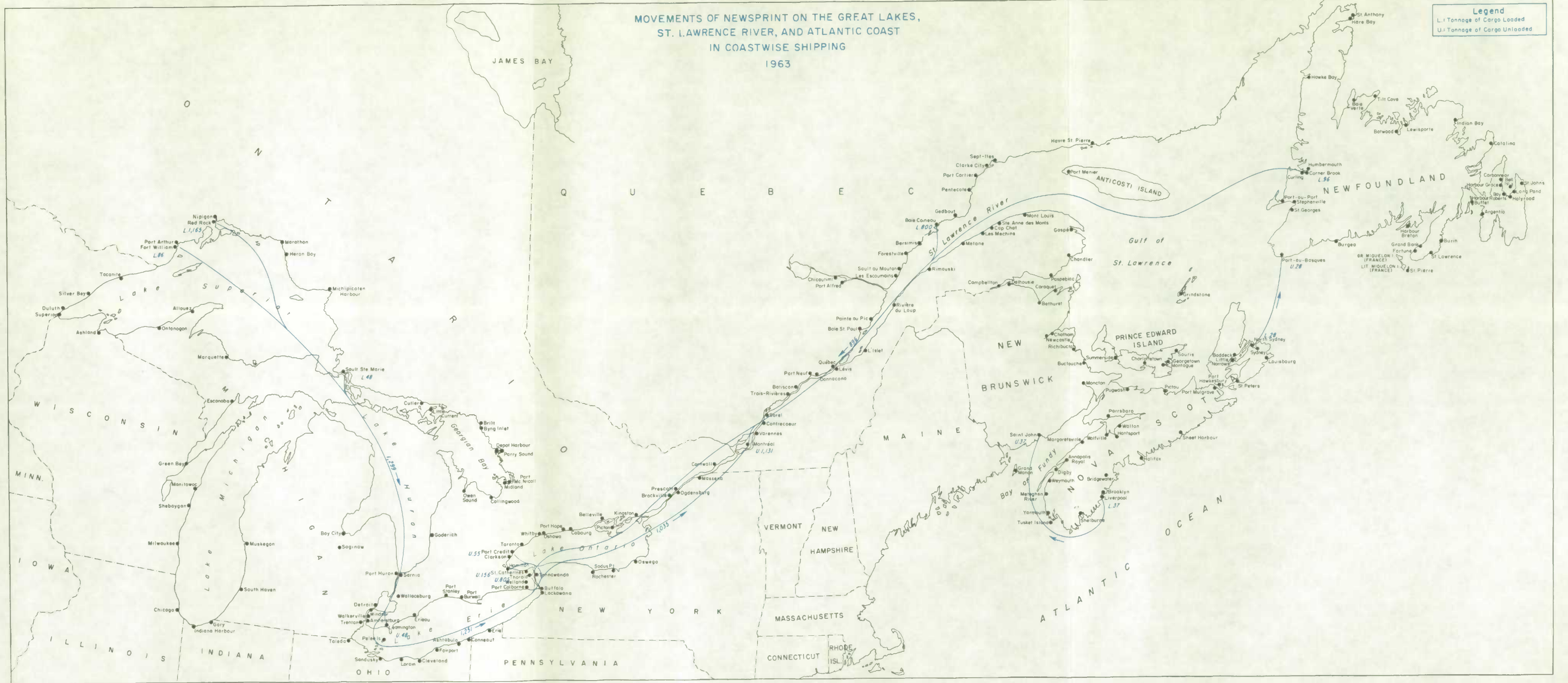


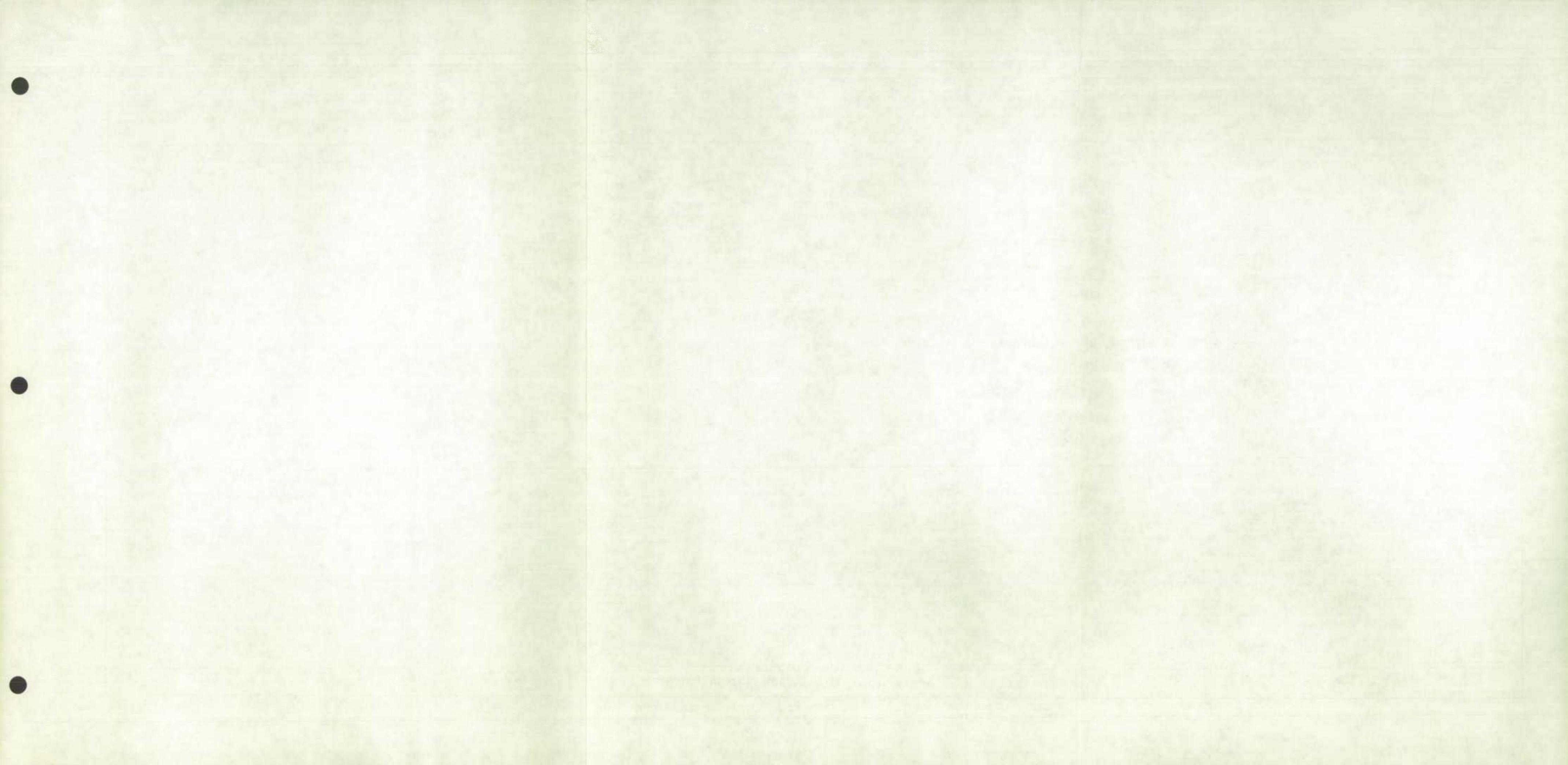
Movements to and from Foreign Areas			
Loaded for:	Tons	Unloaded from:	Tons
Western Europe.....	476,045	U.S. Atlantic B	
Middle East.....	110	Gulf Ports.....	3
Other Africa.....	35,959		
Other Asia.....	47,790		
Oceania.....	63,863		
South America.....	113,806		
Central America			
B Antilles.....	87,829		
U.S. Pacific Ports.....	2,169		
U.S. Atlantic B			
Gulf Ports.....	738,620		



### MOVEMENTS OF NEWSPRINT ON THE GREAT LAKES, ST. LAWRENCE RIVER, AND ATLANTIC COAST IN COASTWISE SHIPPING 1963

**Legend**  
 L: Tonnage of Cargo Loaded  
 U: Tonnage of Cargo Unloaded

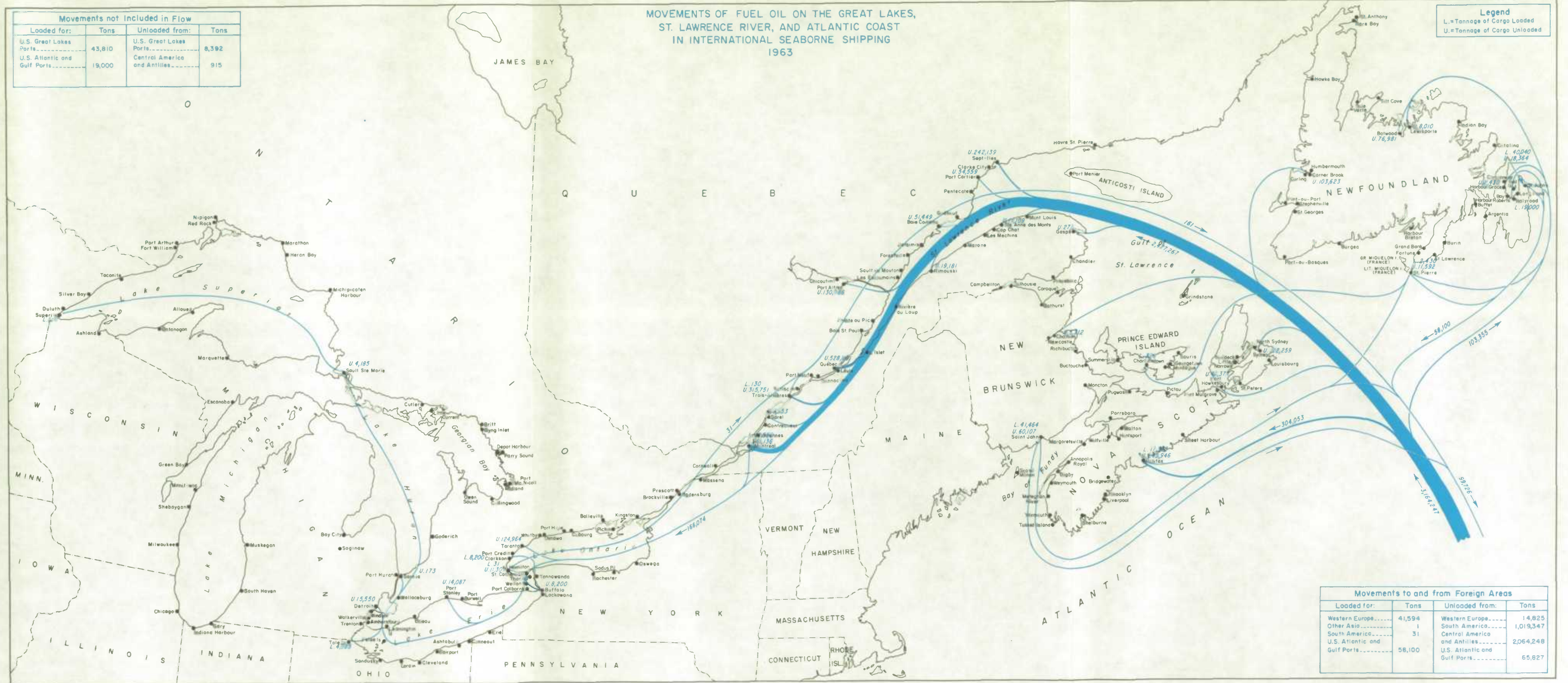




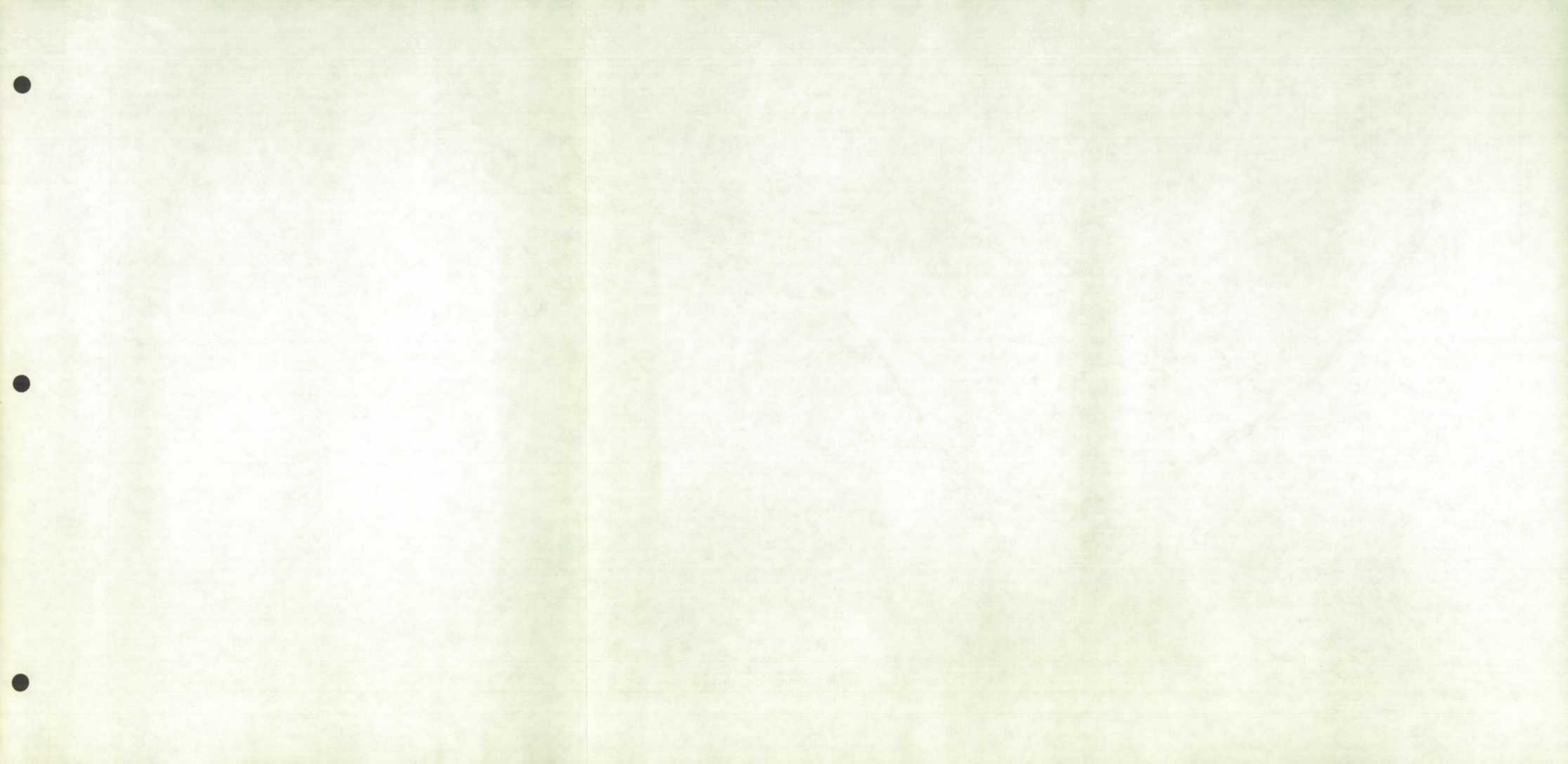
MOVEMENTS OF FUEL OIL ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN INTERNATIONAL SEABORNE SHIPPING  
1963

Movements not Included in Flow			
Loaded for:	Tons	Unloaded from:	Tons
U.S. Great Lakes Ports	43,810	U.S. Great Lakes Ports	8,392
U.S. Atlantic and Gulf Ports	19,000	Central America and Antilles	915

Legend	
L	Tonnage of Cargo Loaded
U	Tonnage of Cargo Unloaded



Movements to and from Foreign Areas			
Loaded for:	Tons	Unloaded from:	Tons
Western Europe	41,594	Western Europe	14,825
Other Asia	1	South America	1,019,347
U.S. Atlantic and Gulf Ports	58,100	Central America and Antilles	2,064,248
		U.S. Atlantic and Gulf Ports	65,827

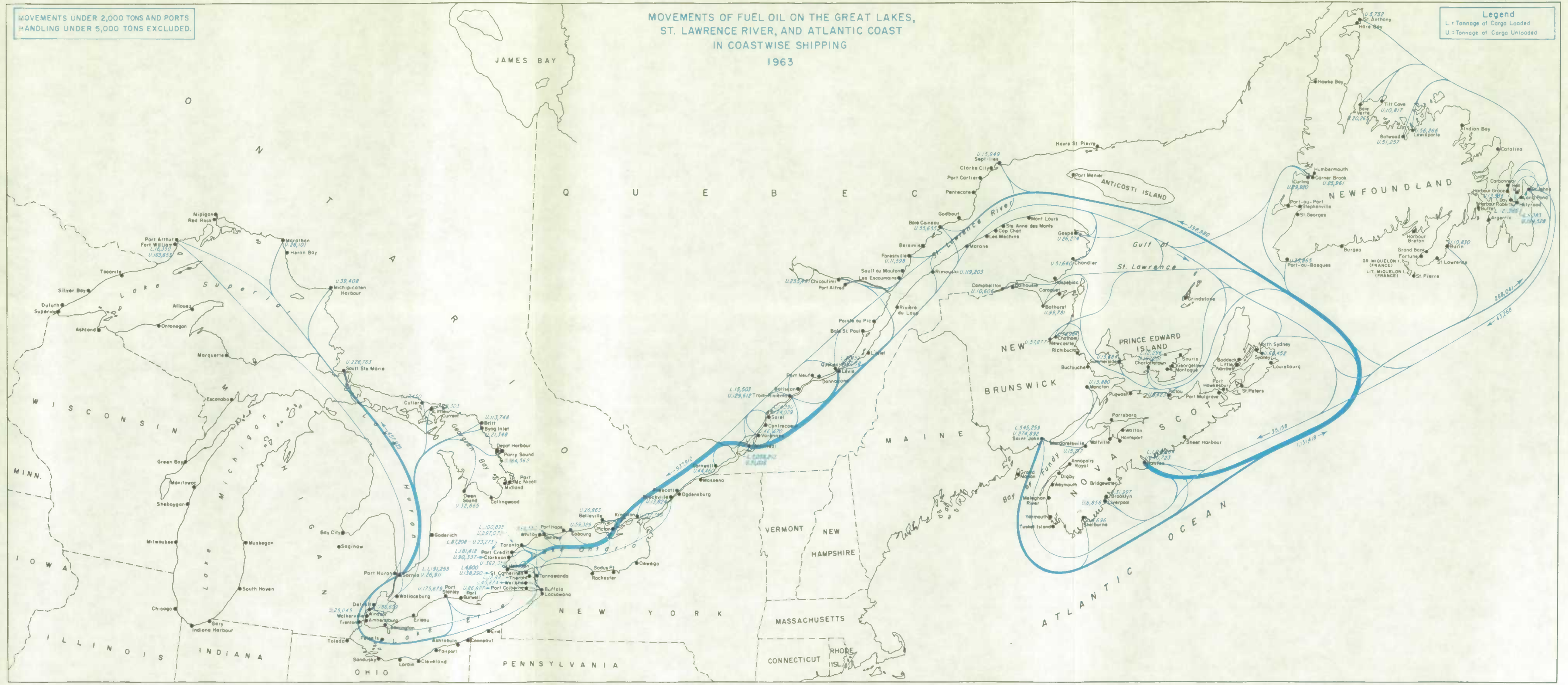


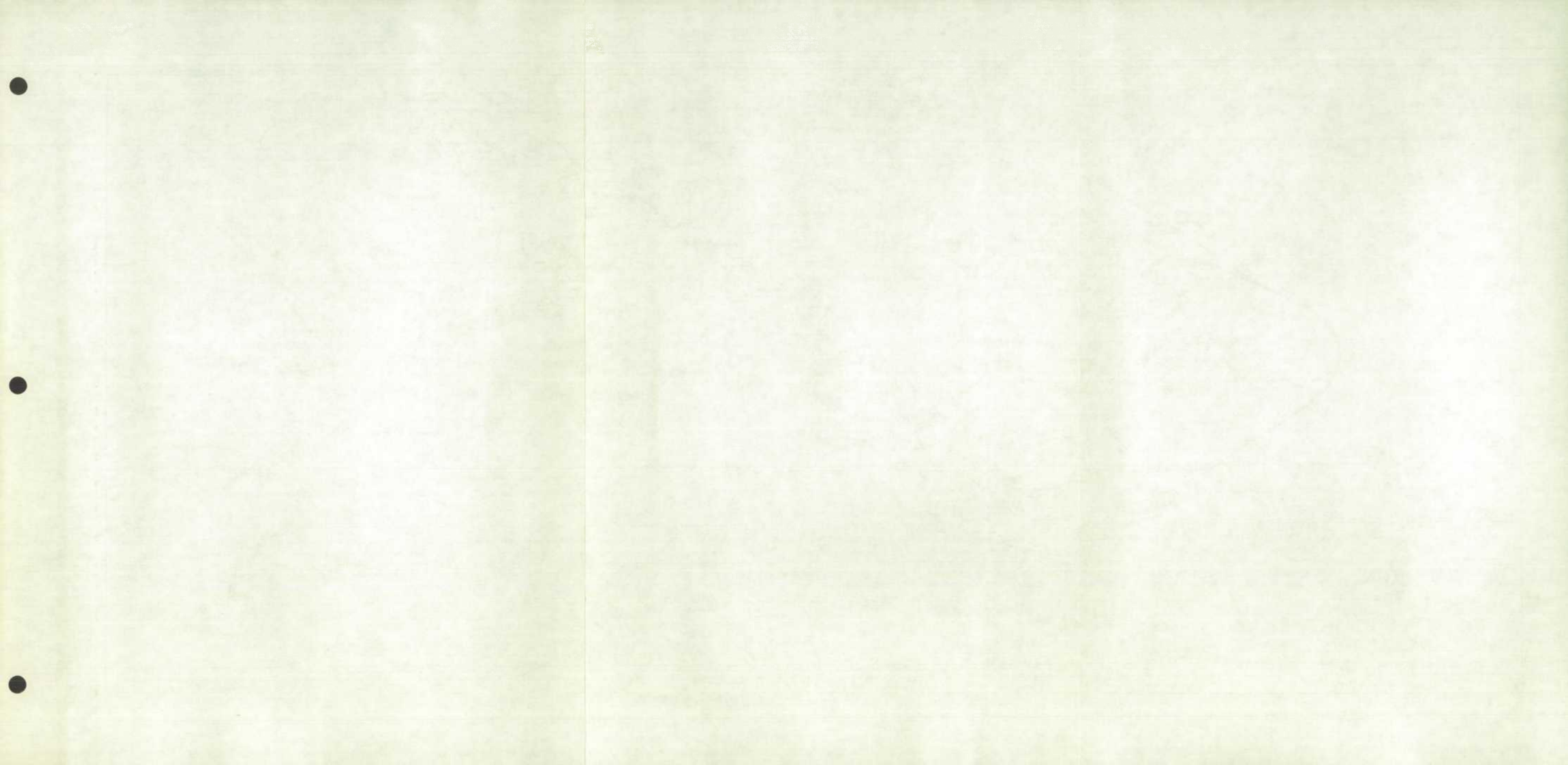


MOVEMENTS UNDER 2,000 TONS AND PORTS HANDLING UNDER 5,000 TONS EXCLUDED.

### MOVEMENTS OF FUEL OIL ON THE GREAT LAKES, ST. LAWRENCE RIVER, AND ATLANTIC COAST IN COASTWISE SHIPPING 1963

**Legend**  
L = Tonnage of Cargo Loaded  
U = Tonnage of Cargo Unloaded

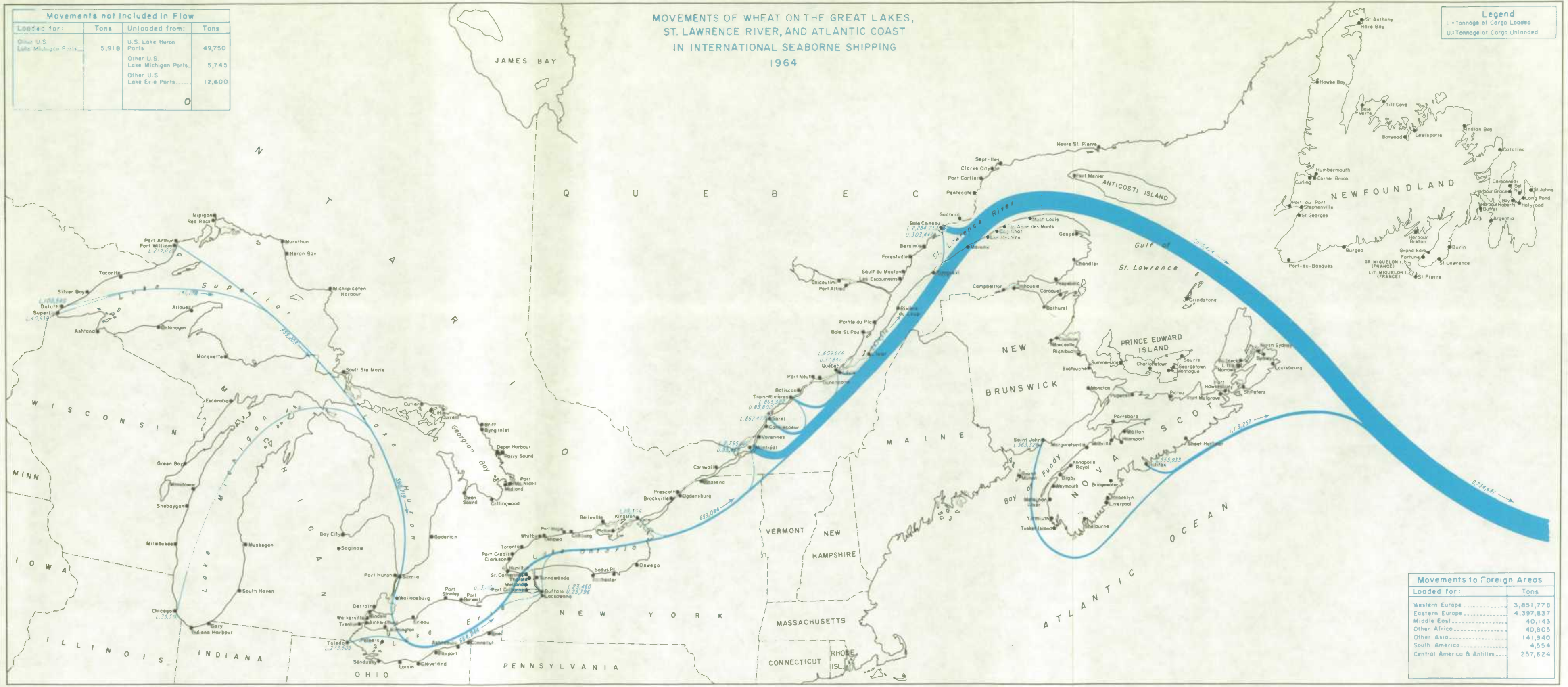




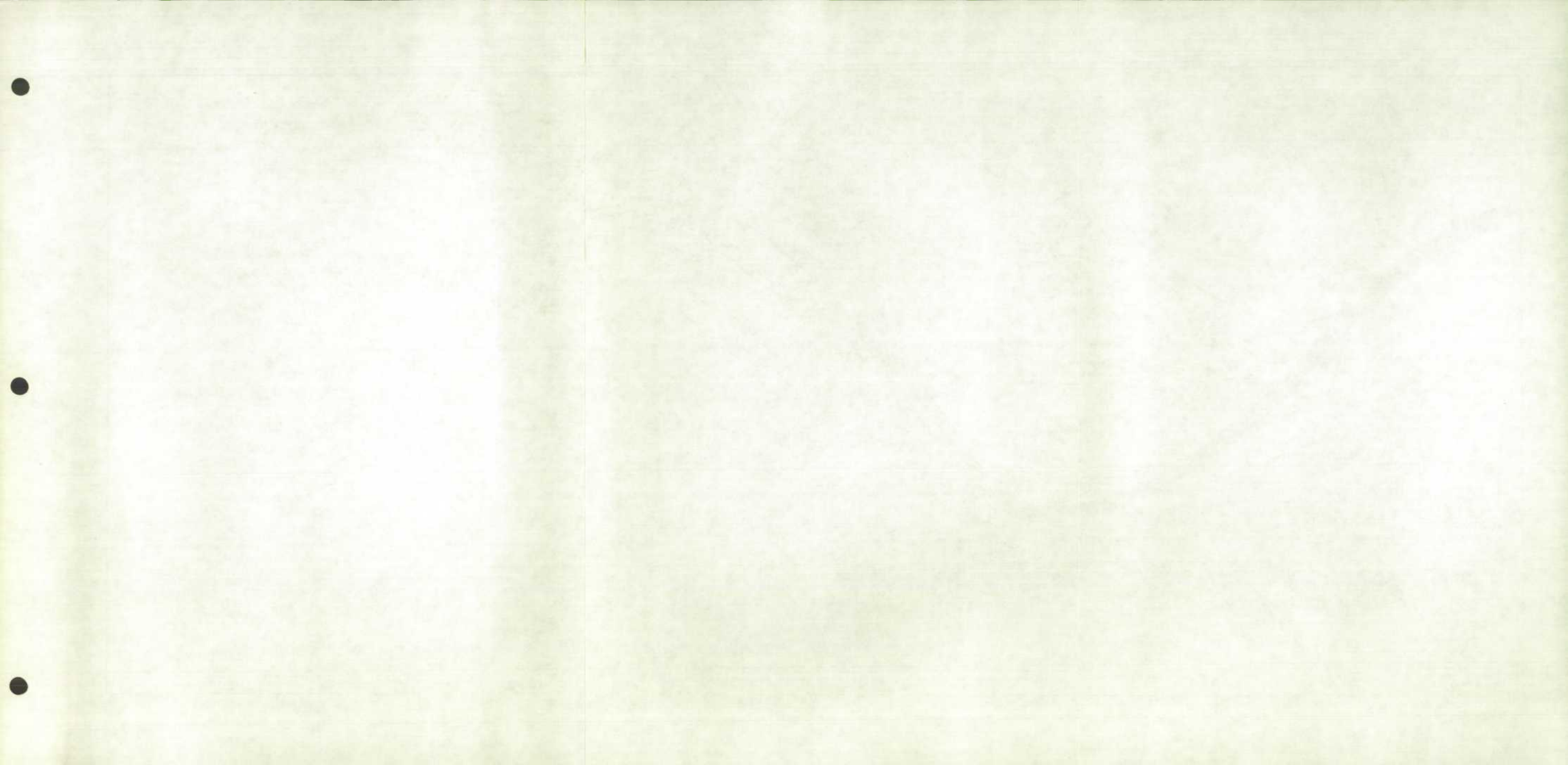
MOVEMENTS OF WHEAT ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN INTERNATIONAL SEABORNE SHIPPING  
1964

Movements not included in Flow			
Loaded for:	Tons	Unloaded from:	Tons
Other U.S. Lake Michigan Ports.....	5,918	U.S. Lake Huron Ports	49,750
		Other U.S. Lake Michigan Ports.....	5,745
		Other U.S. Lake Erie Ports.....	12,600
			0

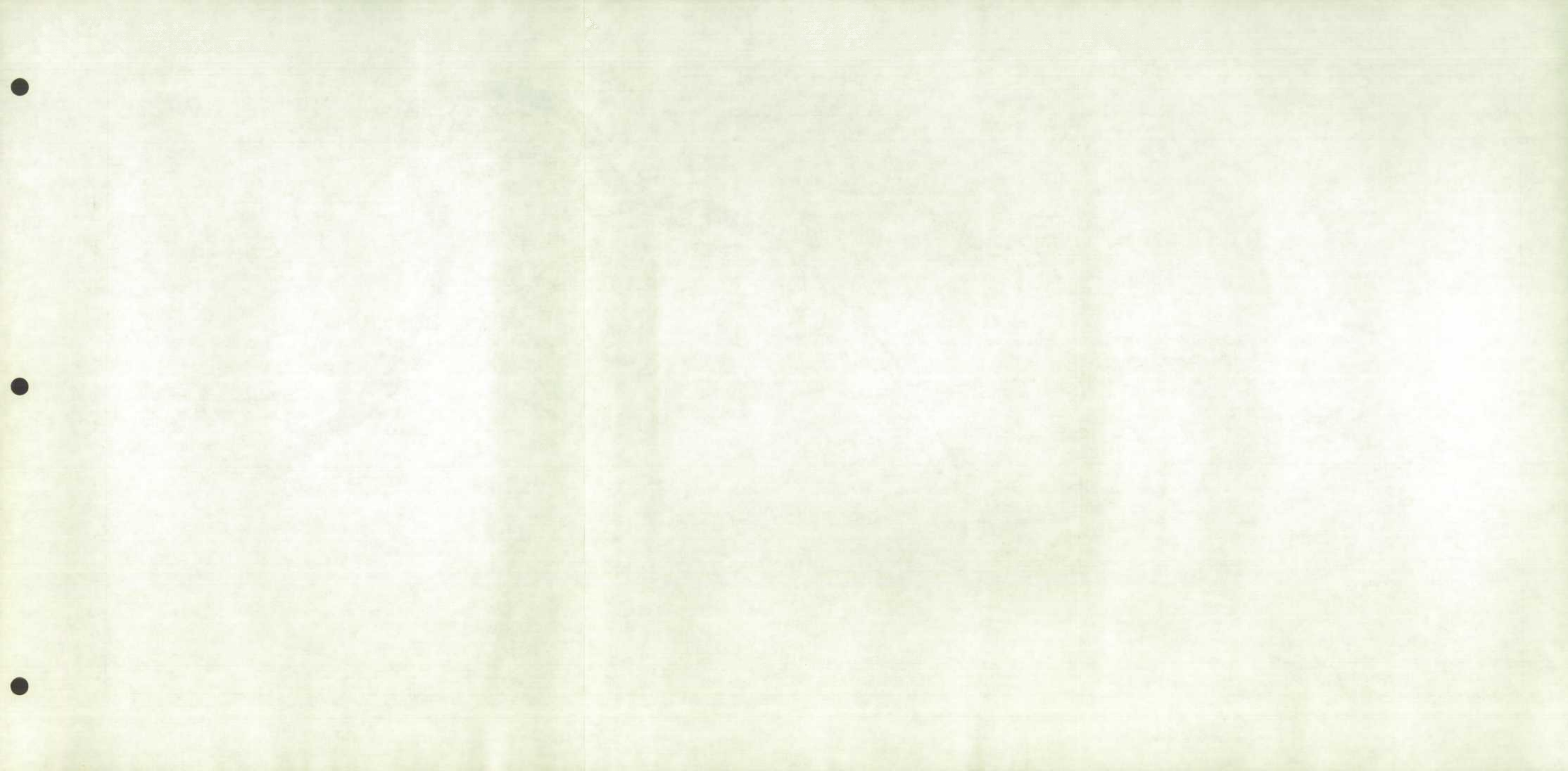
Legend	
L:	Tonnage of Cargo Loaded
U:	Tonnage of Cargo Unloaded



Movements to Foreign Areas	
Loaded for:	Tons
Western Europe .....	3,851,778
Eastern Europe .....	4,397,837
Middle East .....	40,143
Other Africa .....	40,805
Other Asia .....	141,940
South America .....	4,554
Central America & Antilles .....	257,624







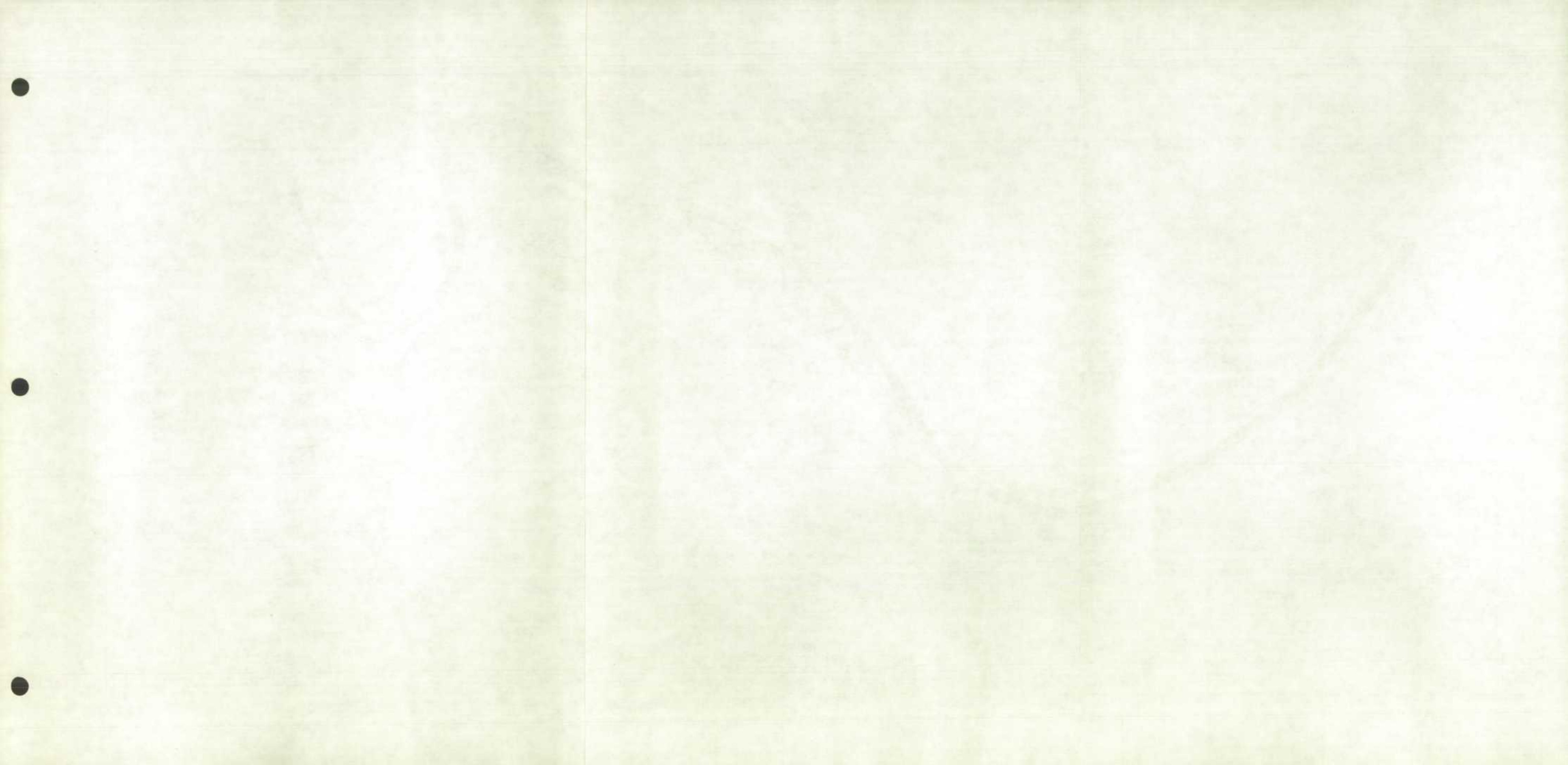
MOVEMENTS OF OTHER GRAIN ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN INTERNATIONAL SEABORNE SHIPPING  
1964

Movements not included in Flow			
Loaded for:	Tons	Unloaded from:	Tons
Other U.S. Lake Michigan Ports...	155,197	U.S. Lake Huron Ports Other U.S. Lake Michigan Ports...	26,073
			48,400

Legend	
L =	Tonnage of Cargo Loaded
U =	Tonnage of Cargo Unloaded



Movements to and from Foreign Areas			
Loaded for:	Tons	Unloaded from:	Tons
Western Europe.....	1,809,116	Western Europe.....	21,160
Eastern Europe.....	46,700	Oceania.....	5,950
Other Africa.....	16,360		
South America.....	3,441		
Central America and Antilles.....	158		

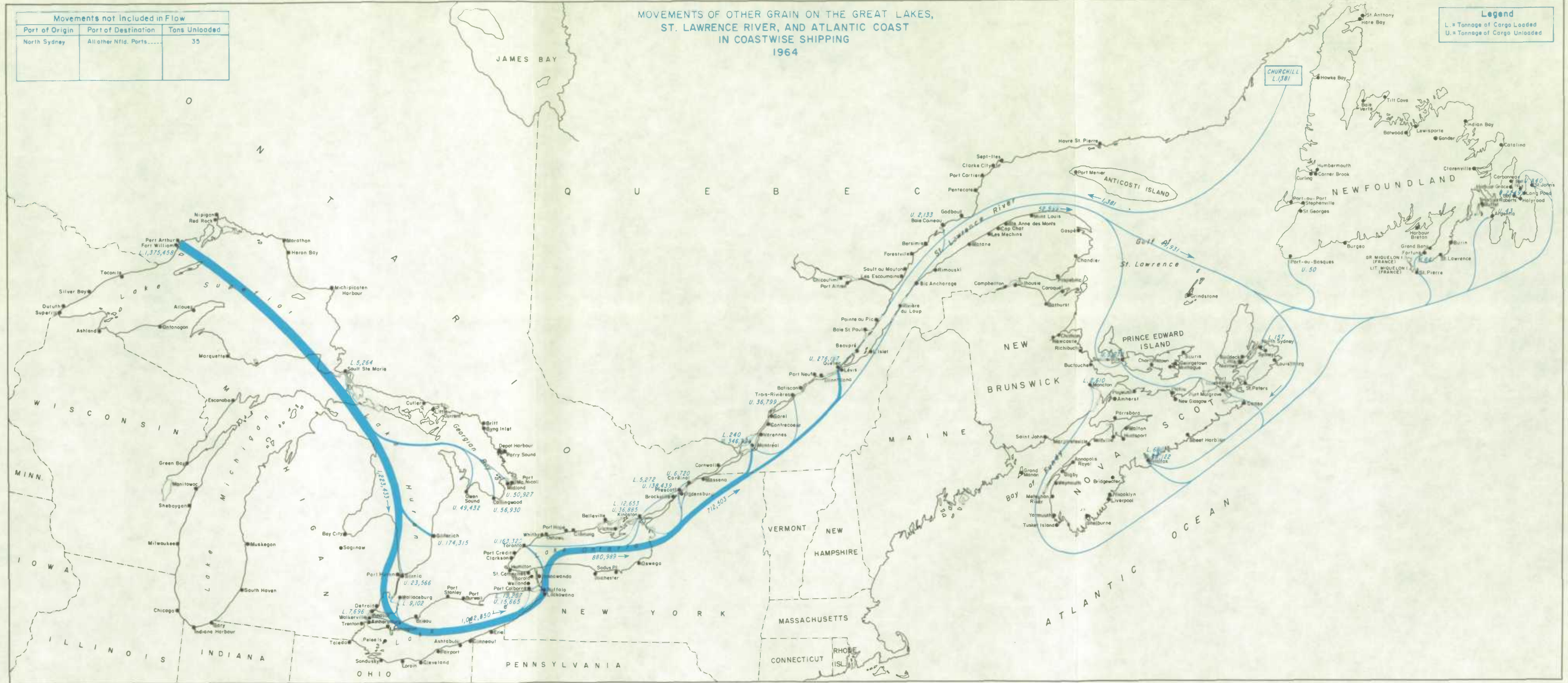


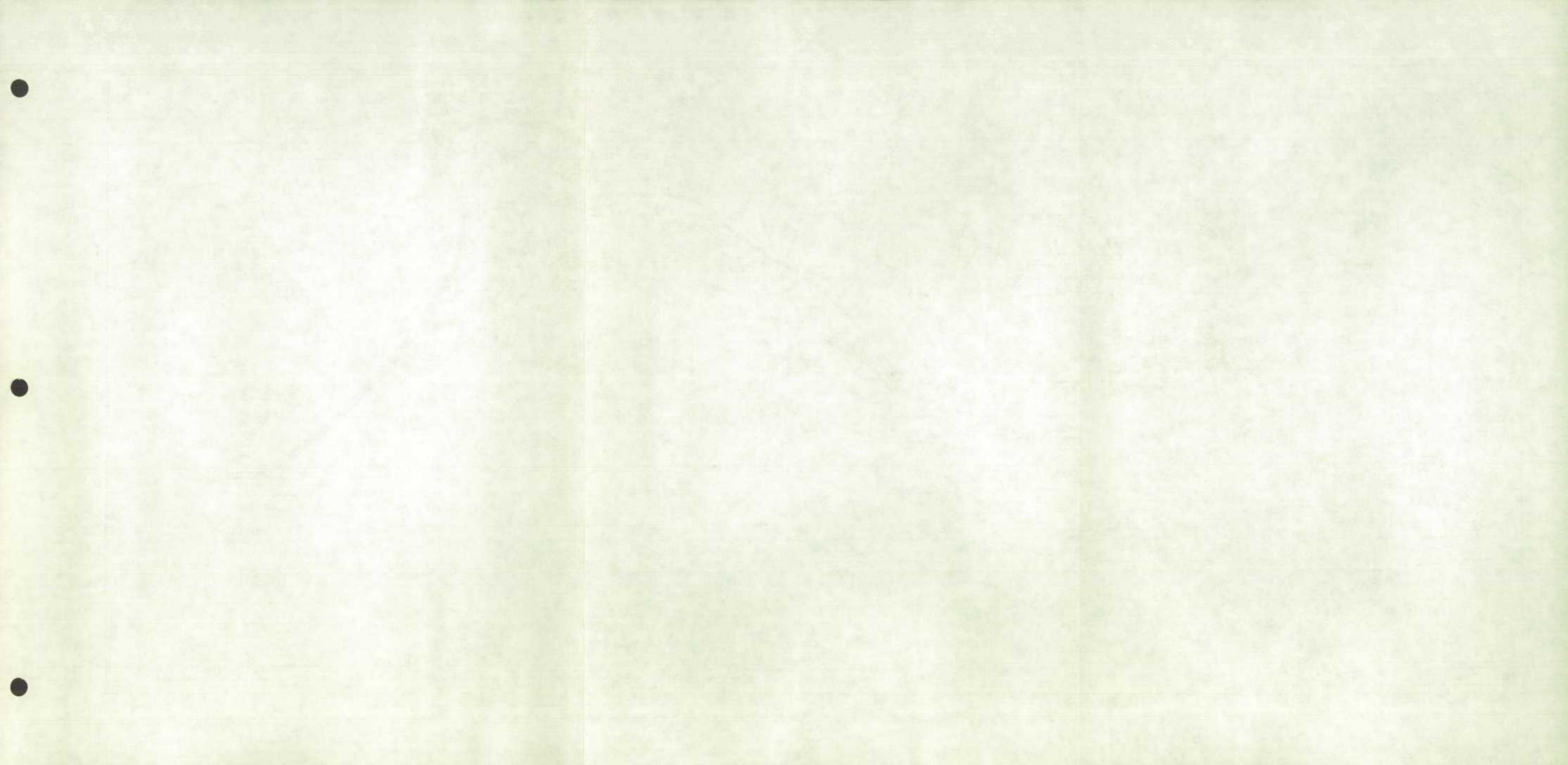


MOVEMENTS OF OTHER GRAIN ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN COASTWISE SHIPPING  
1964

Movements not Included in Flow		
Port of Origin	Port of Destination	Tons Unloaded
North Sydney	All other Nfld. Ports.....	35

Legend	
L.	Tonnage of Cargo Loaded
U.	Tonnage of Cargo Unloaded

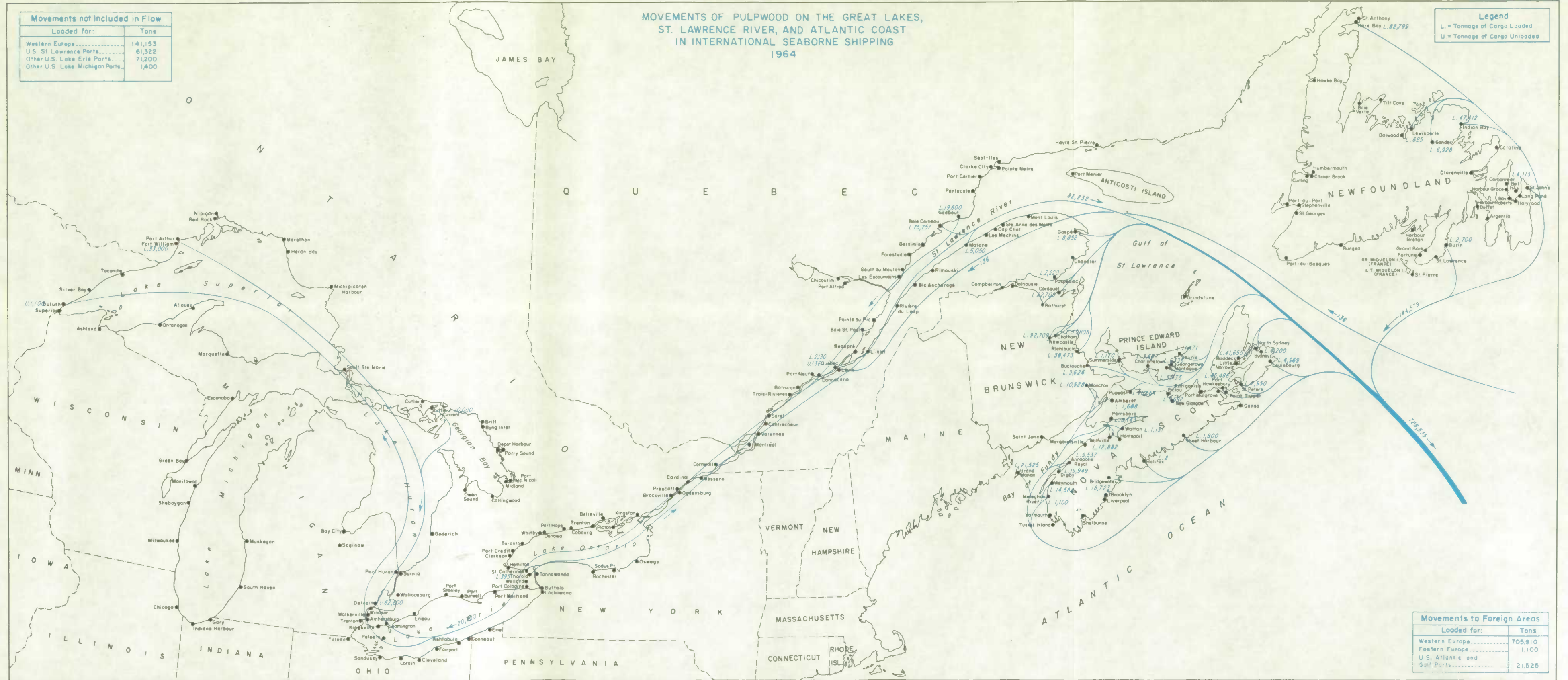




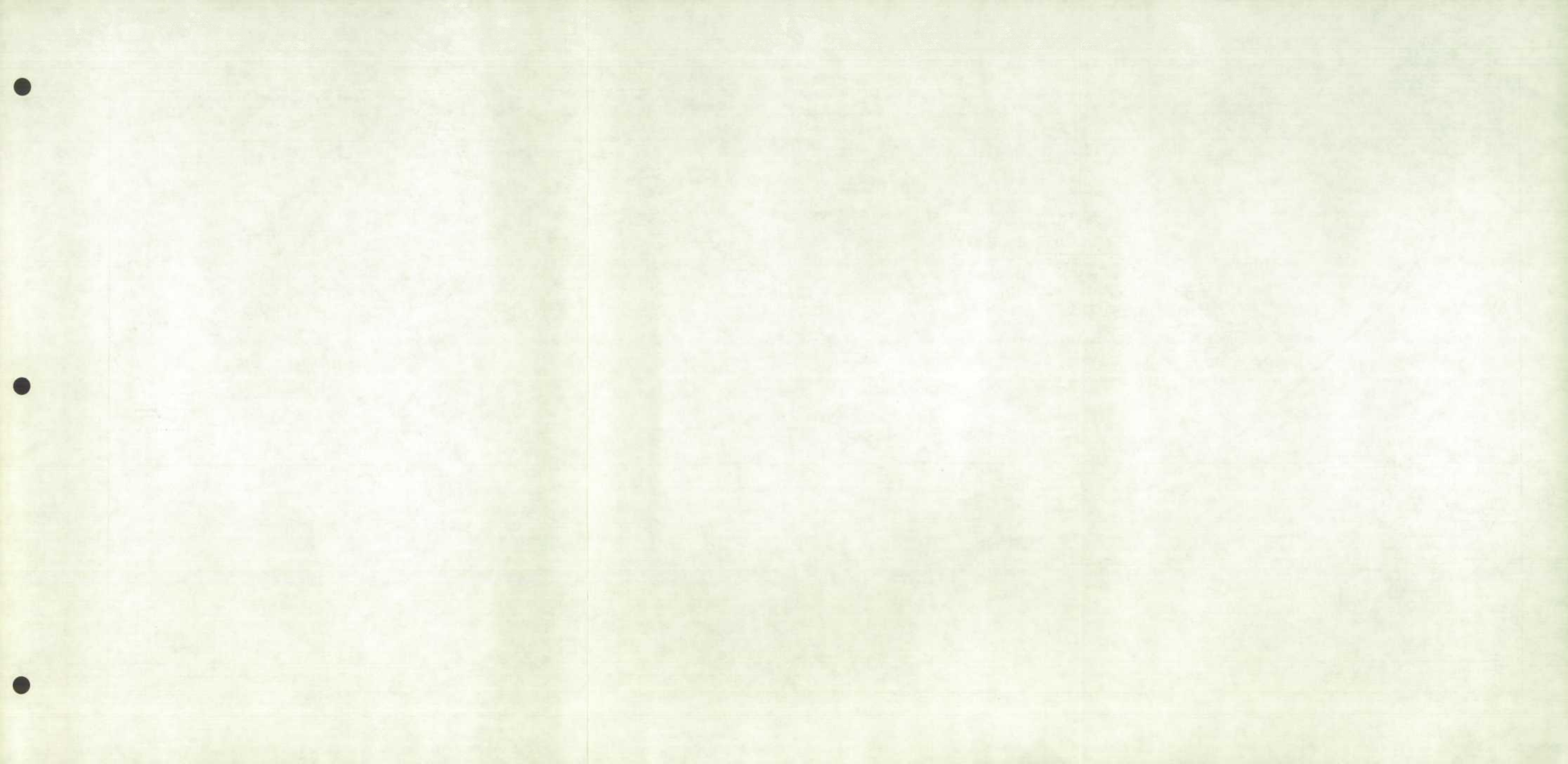
MOVEMENTS OF PULPWOOD ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN INTERNATIONAL SEABORNE SHIPPING  
1964

Movements not Included in Flow	
Loaded for:	Tons
Western Europe.....	141,153
U.S. St. Lawrence Ports.....	61,322
Other U.S. Lake Erie Ports.....	71,200
Other U.S. Lake Michigan Ports.....	1,400

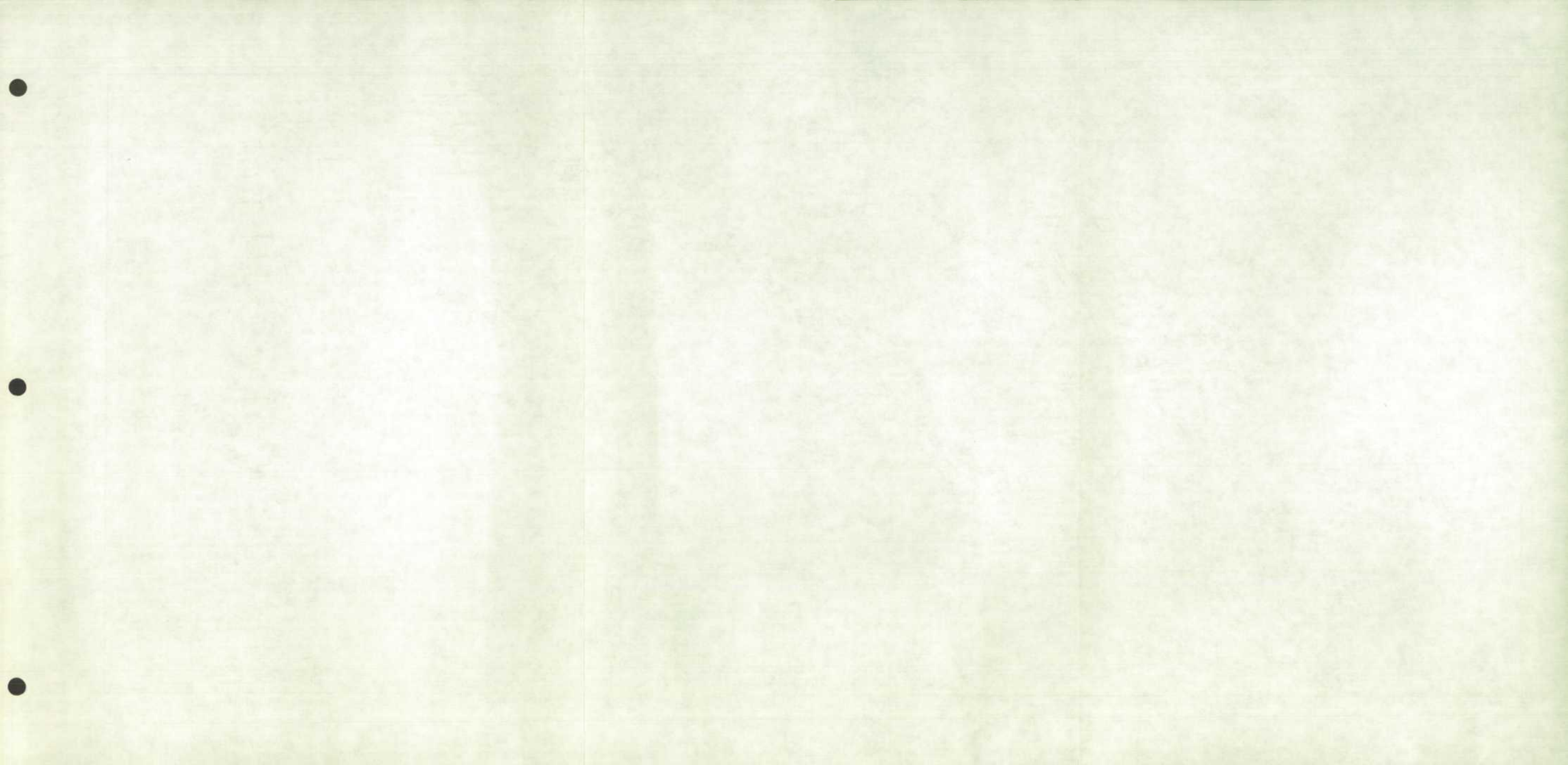
Legend	
L =	Tonnage of Cargo Loaded
U =	Tonnage of Cargo Unloaded



Movements to Foreign Areas	
Loaded for:	Tons
Western Europe.....	705,910
Eastern Europe.....	1,100
U.S. Atlantic and Gulf Ports.....	21,525







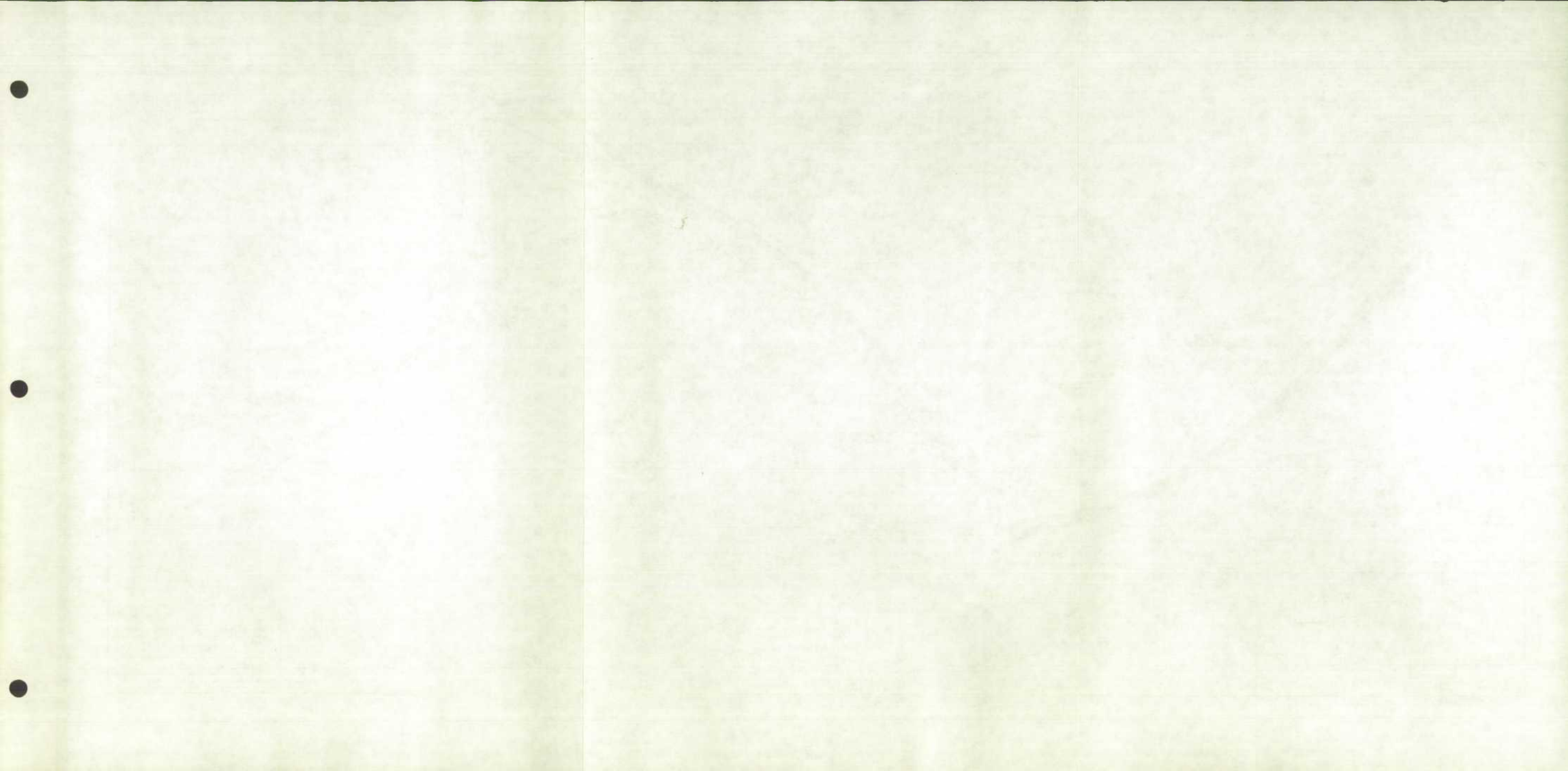
MOVEMENTS OF IRON ORE ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN INTERNATIONAL SEABORNE SHIPPING  
1964

Movements not Included in Flow			
Loaded for:	Tons	Unloaded from:	Tons
U.S. Lake Huron Ports.....	11,872	Other U.S. Lake Michigan Ports.....	165,880
Other U.S. Lake Michigan Ports.....	936,983	Other U.S. Lake Erie Ports.....	12,278
Other U.S. Lake Erie Ports.....	1,612,771	Other U.S. Lake Superior Ports.....	3,250,637
Other Area Ports.....	420,724		

Legend			
L =	Tonnage of Cargo Loaded		
U =	Tonnage of Cargo Unloaded		



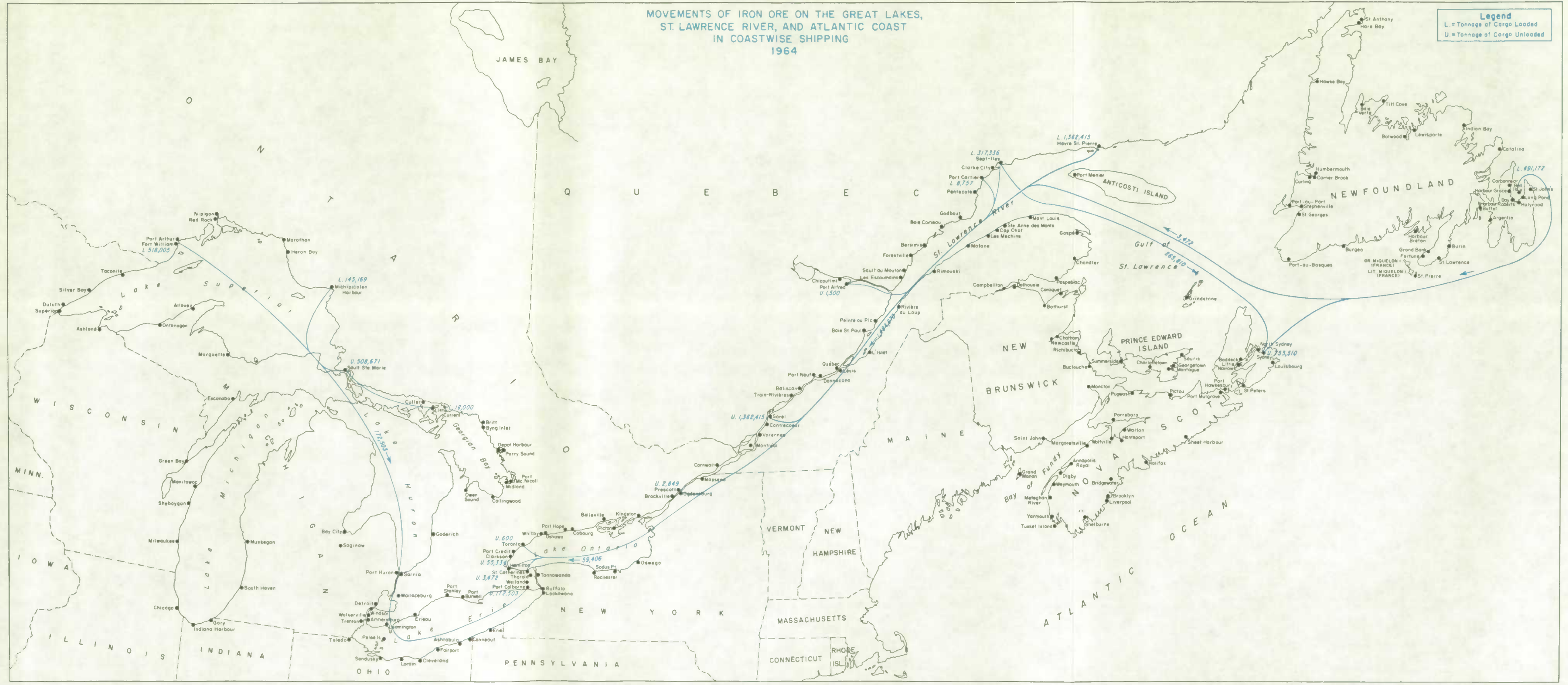
Movements to and from Foreign Areas			
Loaded for:	Tons	Unloaded from:	Tons
Western Europe.....	4,636,675	Western Europe.....	318
Central America and Antilles.....	5,600	South America.....	770,795
U.S. Atlantic and Gulf Ports.....	10,293,197		

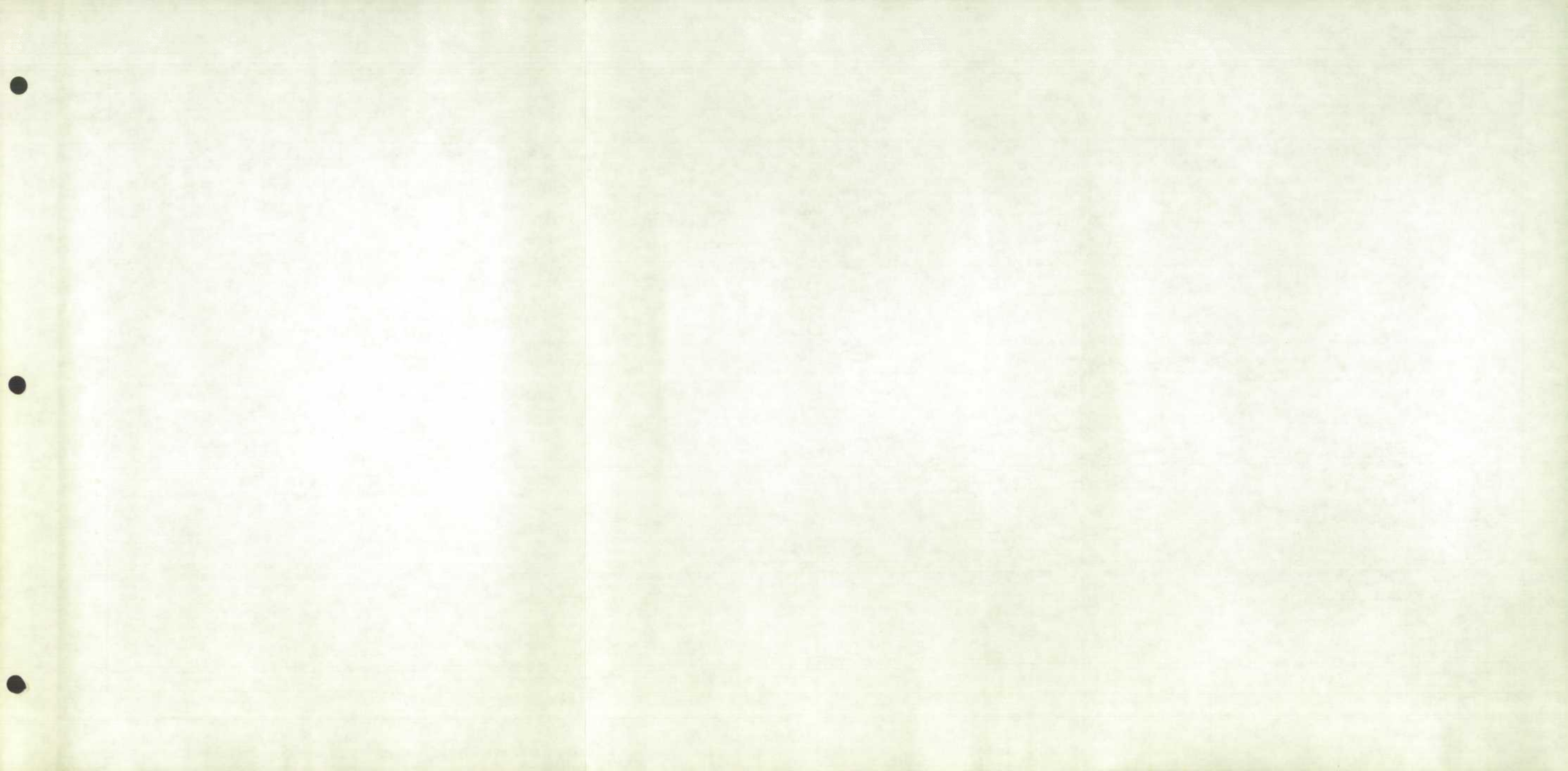




### MOVEMENTS OF IRON ORE ON THE GREAT LAKES, ST. LAWRENCE RIVER, AND ATLANTIC COAST IN COASTWISE SHIPPING 1964

**Legend**  
 L. = Tonnage of Cargo Loaded  
 U. = Tonnage of Cargo Unloaded

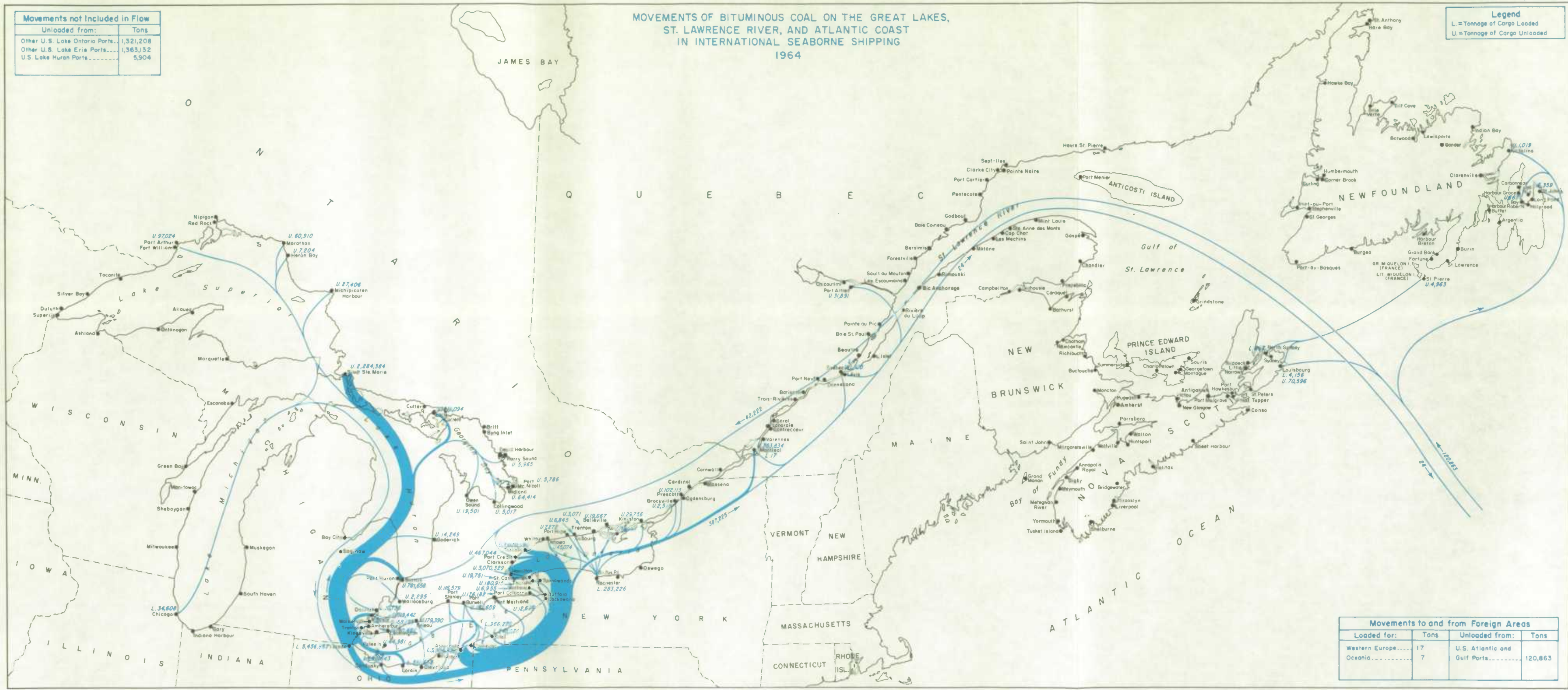




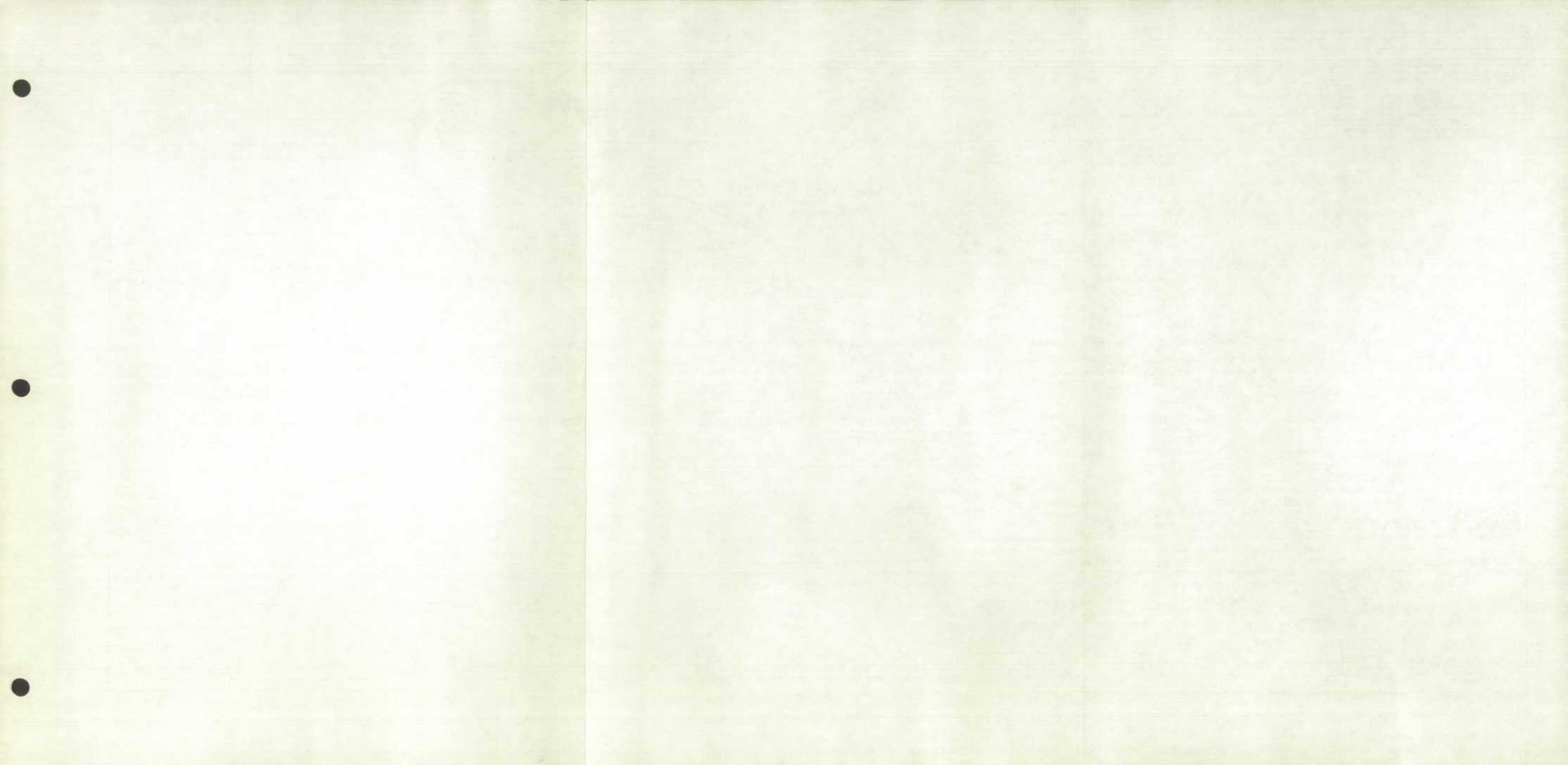
MOVEMENTS OF BITUMINOUS COAL ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN INTERNATIONAL SEABORNE SHIPPING  
1964

Movements not Included in Flow	
Unloaded from:	Tons
Other U.S. Lake Ontario Ports	1,321,208
Other U.S. Lake Erie Ports	1,363,132
U.S. Lake Huron Ports	5,904

Legend	
L.	Tonnage of Cargo Loaded
U.	Tonnage of Cargo Unloaded



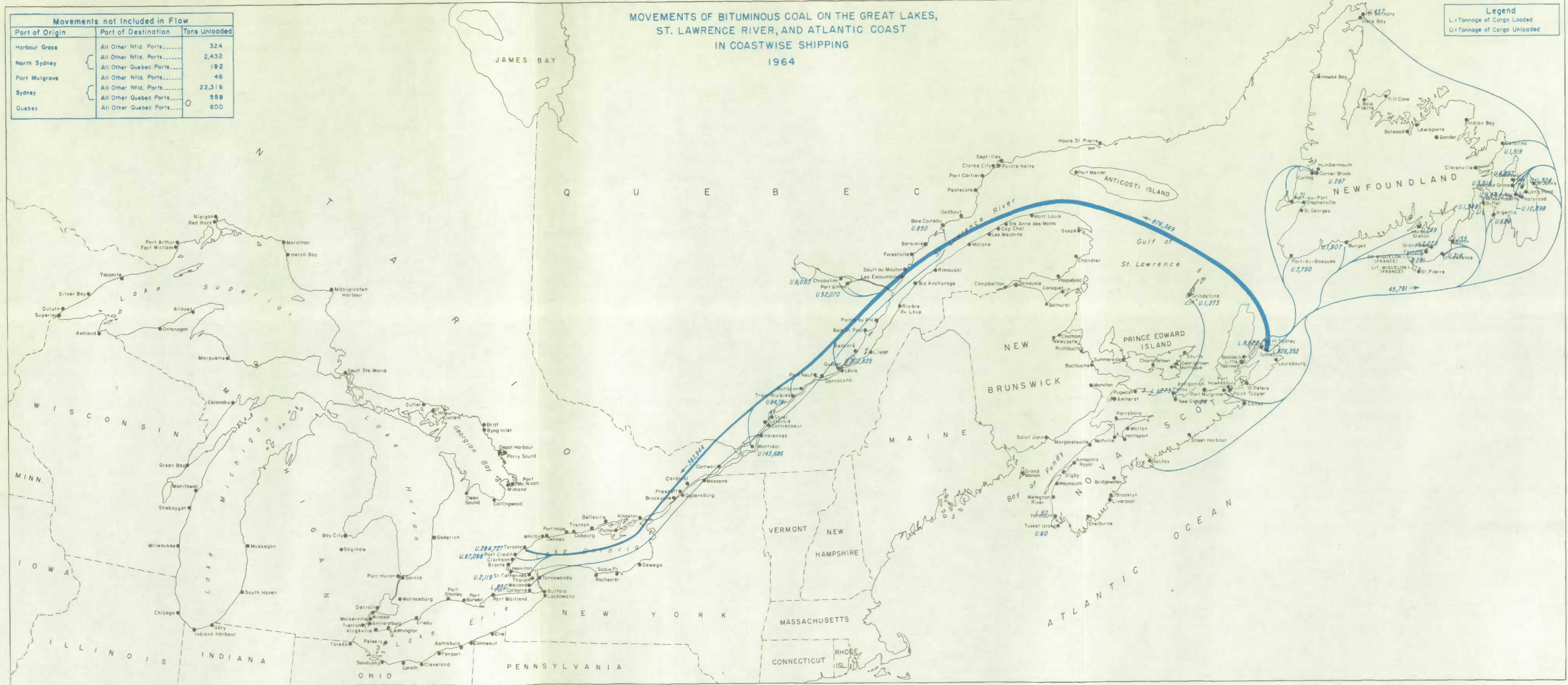
Movements to and from Foreign Areas			
Loaded for:	Tons	Unloaded from:	Tons
Western Europe	17	U.S. Atlantic and Gulf Ports	120,863
Oceania	7		



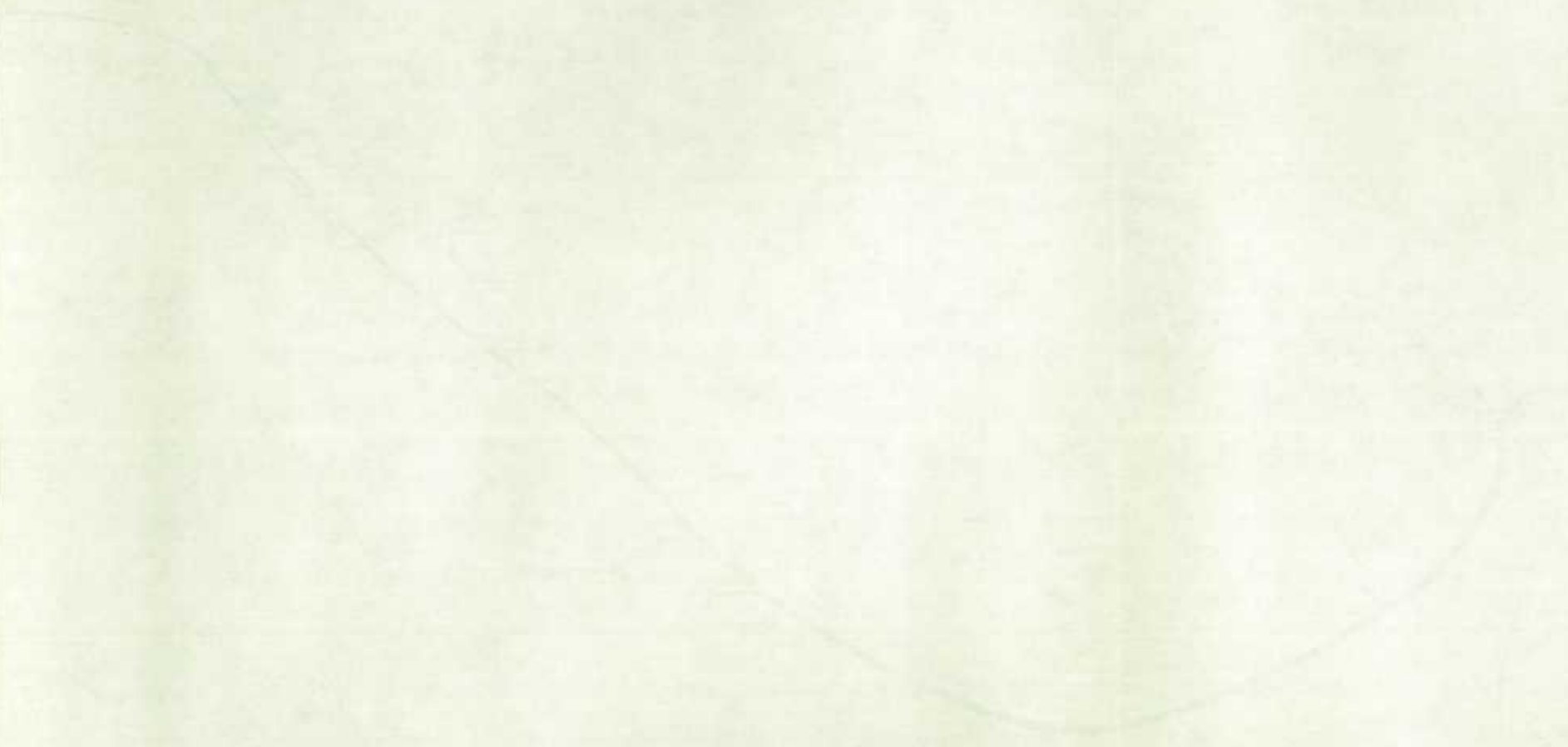
MOVEMENTS OF BITUMINOUS COAL ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN COASTWISE SHIPPING  
1964

Legend  
L.: Tonnage of Cargo Loaded  
U.: Tonnage of Cargo Unloaded

Movements not Included in Flow		
Port of Origin	Port of Destination	Tons Unloaded
Harbour Grace	All Other Nfld. Ports.....	324
North Sydney	All Other Nfld. Ports.....	2,432
	All Other Quebec Ports.....	192
Port Mulgrave	All Other Nfld. Ports.....	46
Sydney	All Other Nfld. Ports.....	22,316
	All Other Quebec Ports.....	559
Quebec	All Other Quebec Ports.....	600

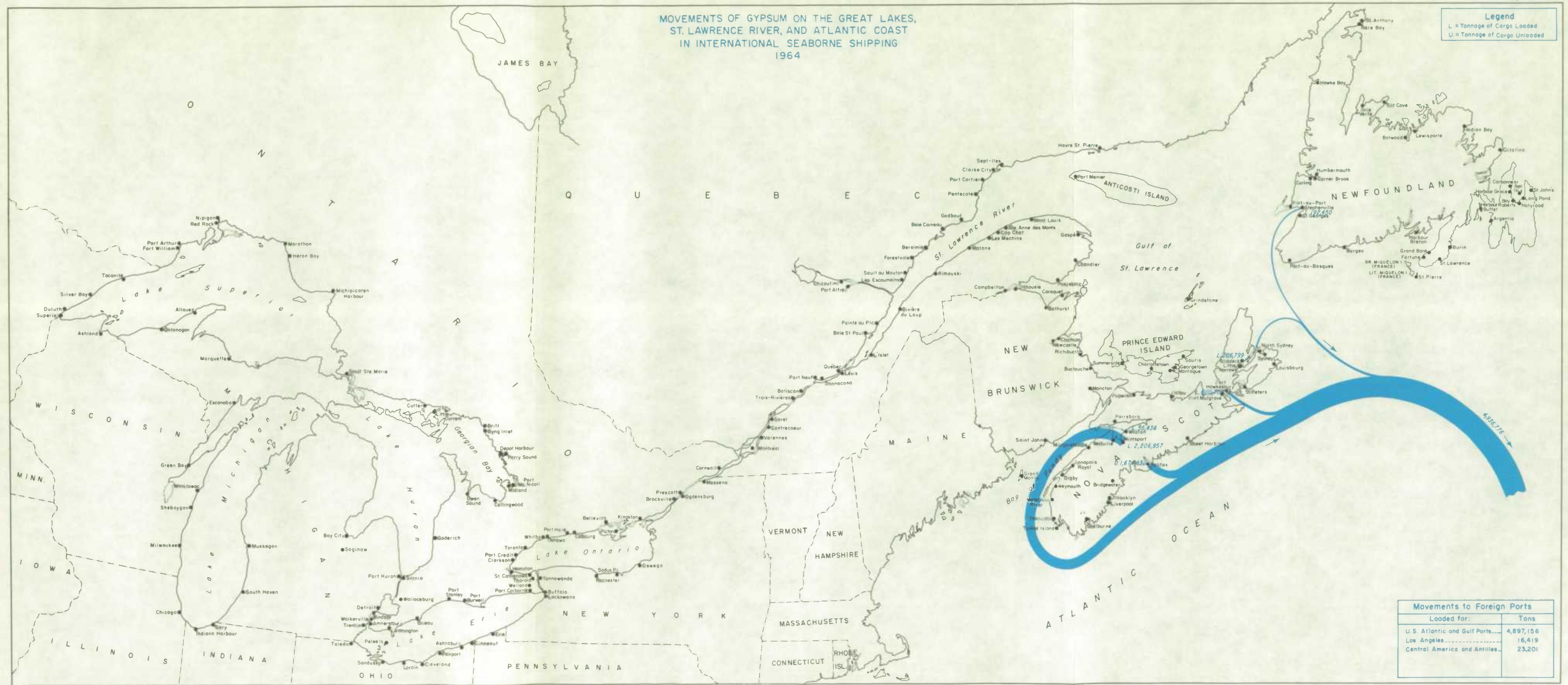


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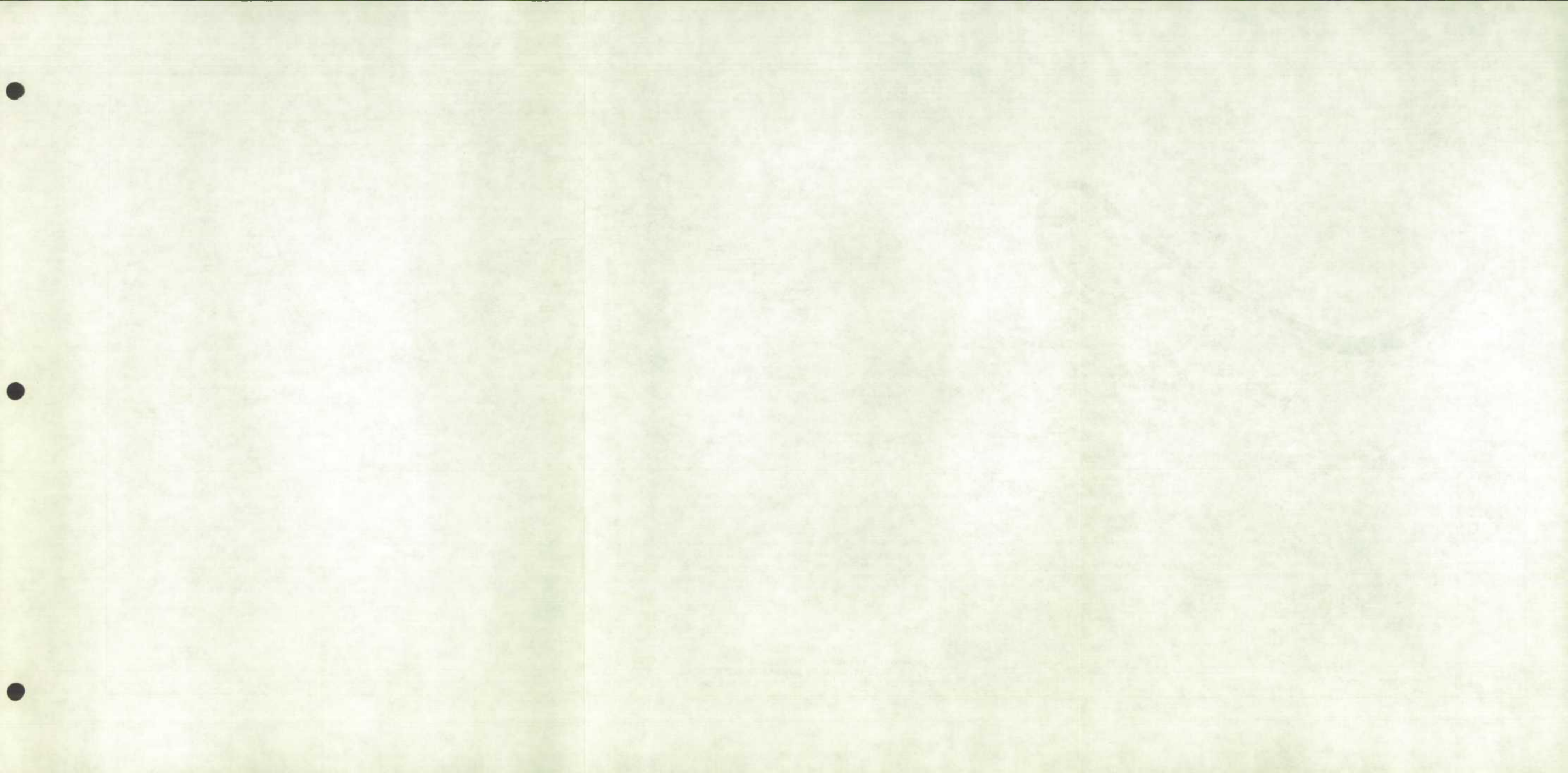


MOVEMENTS OF GYPSUM ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN INTERNATIONAL SEABORNE SHIPPING  
1964

**Legend**  
L = Tonnage of Cargo Loaded  
U = Tonnage of Cargo Unloaded



Movements to Foreign Ports	
Loaded for:	Tons
U.S. Atlantic and Gulf Ports	4,897,156
Los Angeles	16,419
Central America and Antilles	23,201

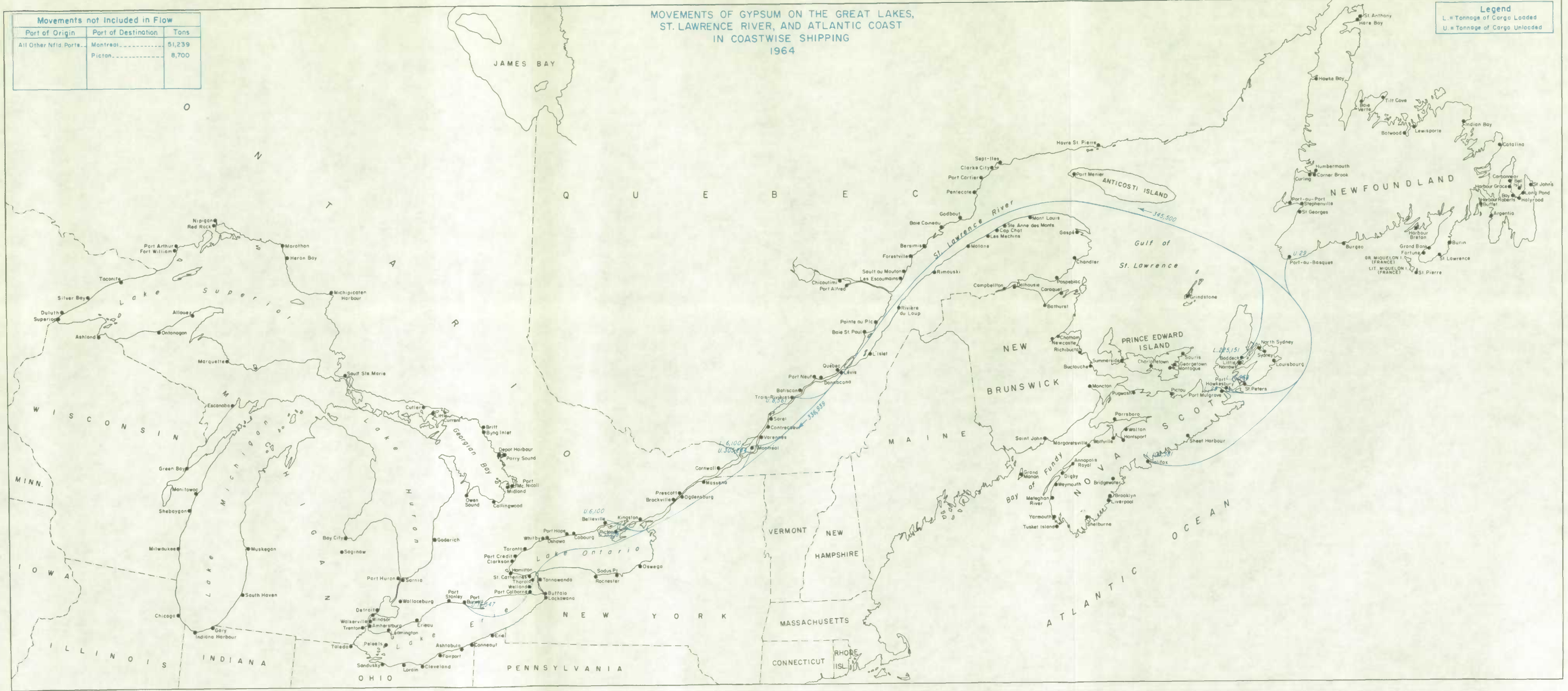


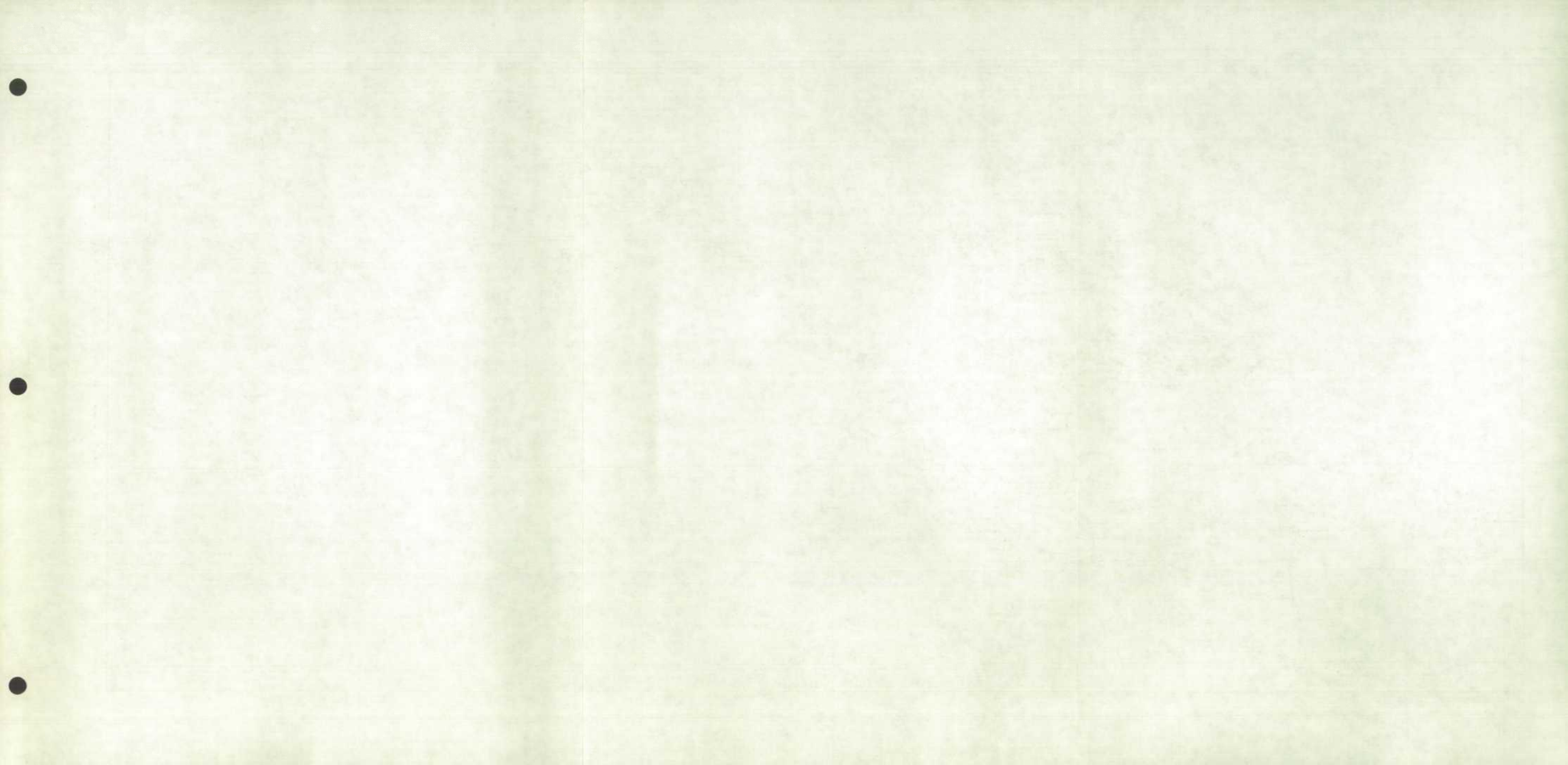


MOVEMENTS OF GYPSUM ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN COASTWISE SHIPPING  
1964

Movements not included in Flow		
Part of Origin	Part of Destination	Tons
All Other Nfld. Ports	Montreal	51,239
	Pictou	8,700

Legend  
L. = Tonnage of Cargo Loaded  
U. = Tonnage of Cargo Unloaded

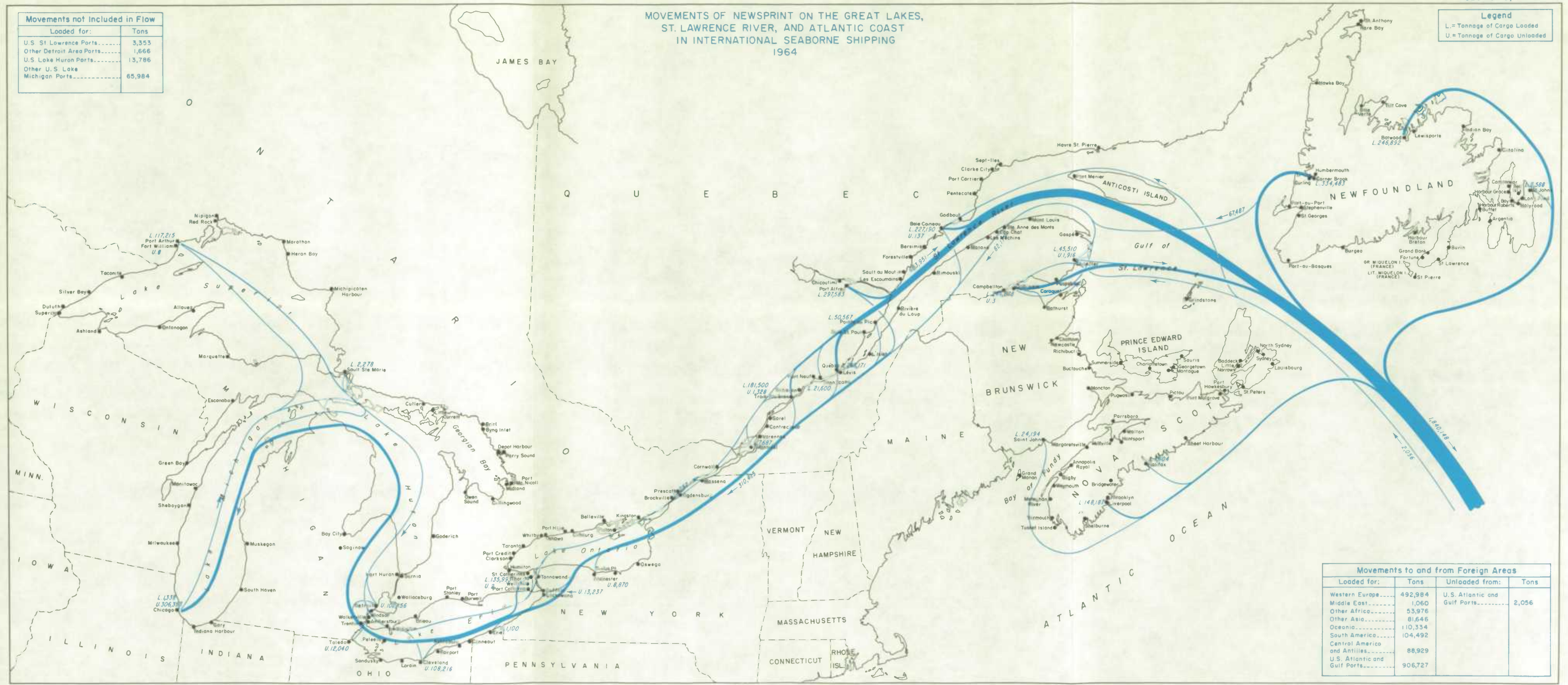




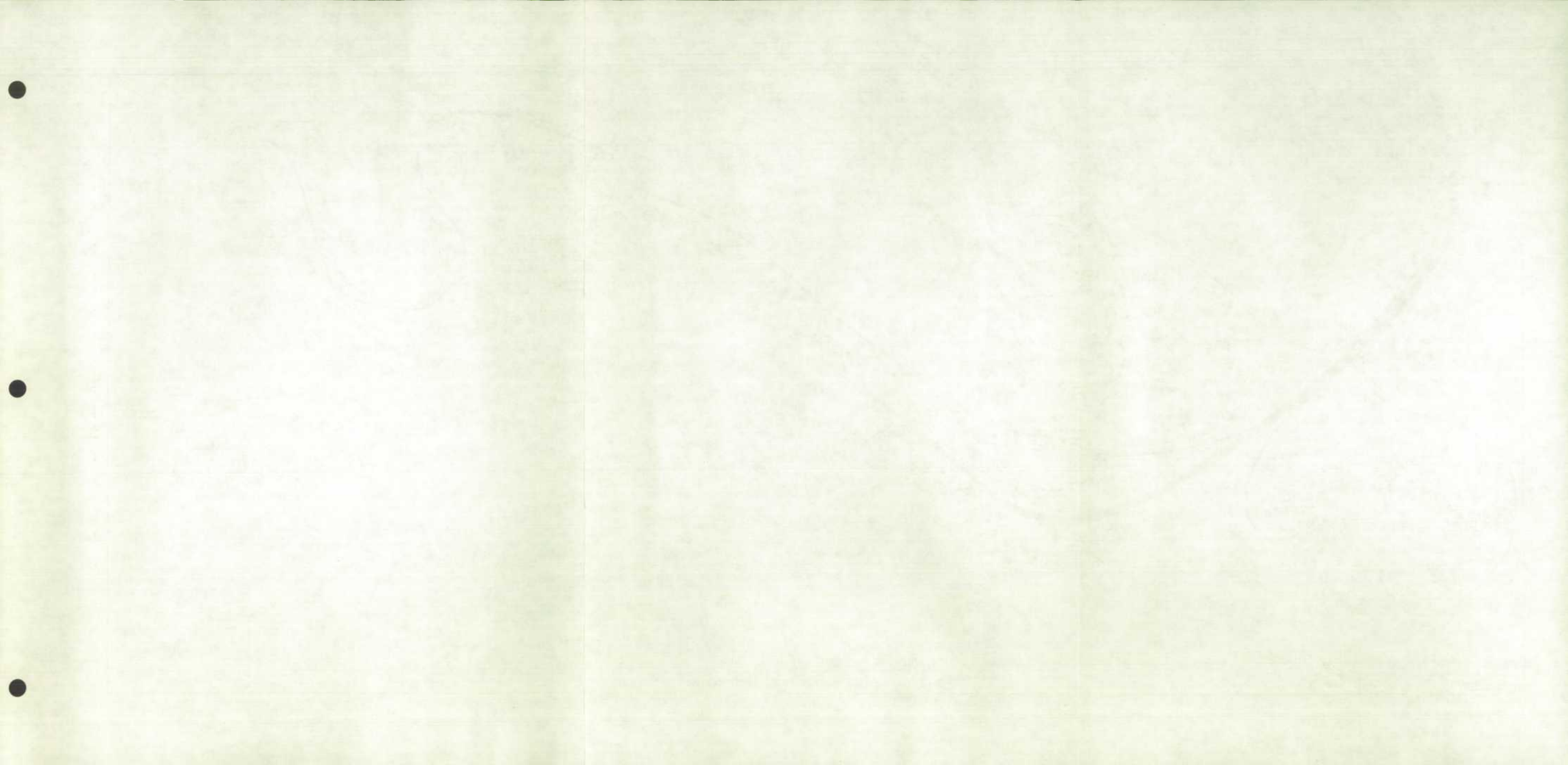
Movements not Included in Flow	
Loaded for:	Tons
U.S. St. Lawrence Ports.....	3,353
Other Detroit Area Ports.....	1,666
U.S. Lake Huron Ports.....	13,786
Other U.S. Lake Michigan Ports.....	65,984

MOVEMENTS OF NEWSPRINT ON THE GREAT LAKES, ST. LAWRENCE RIVER, AND ATLANTIC COAST IN INTERNATIONAL SEABORNE SHIPPING 1964

Legend	
L=	Tonnage of Cargo Loaded
U=	Tonnage of Cargo Unloaded

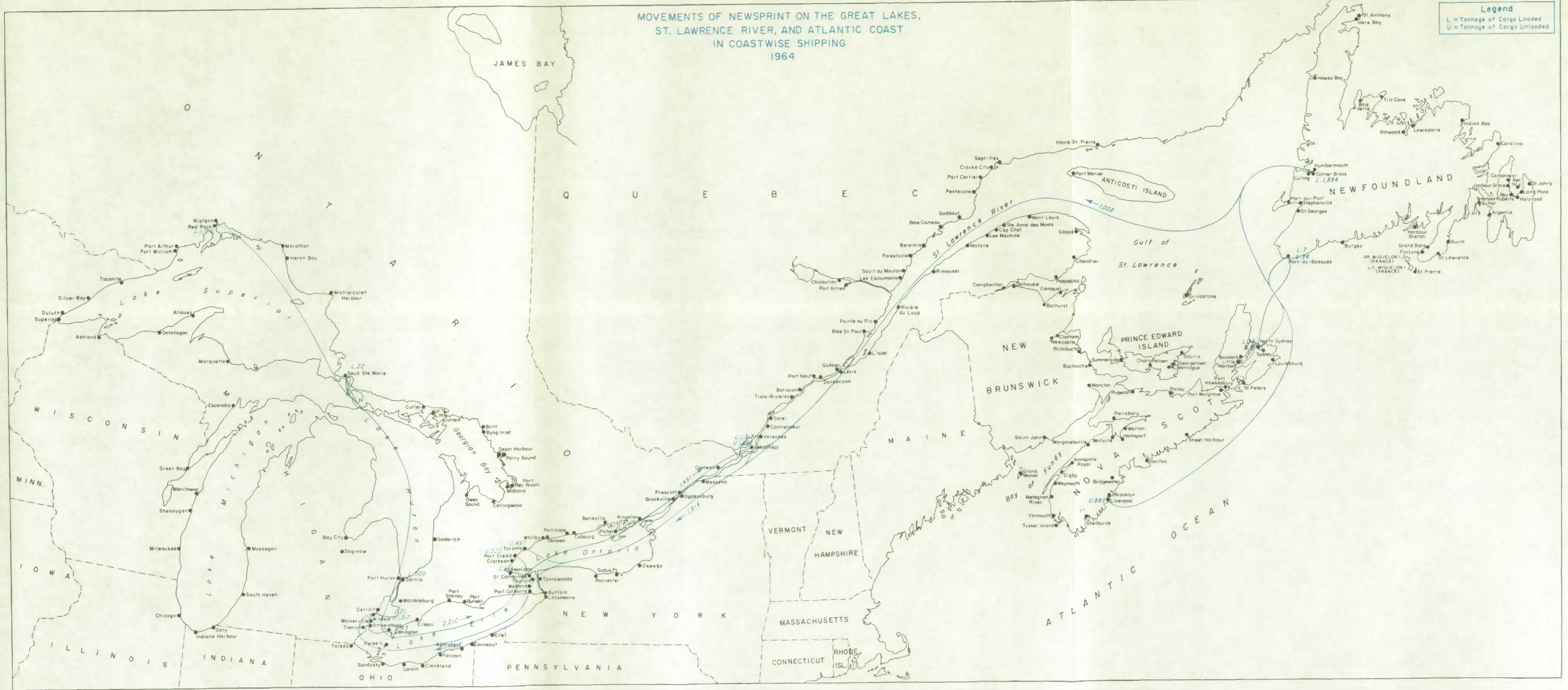


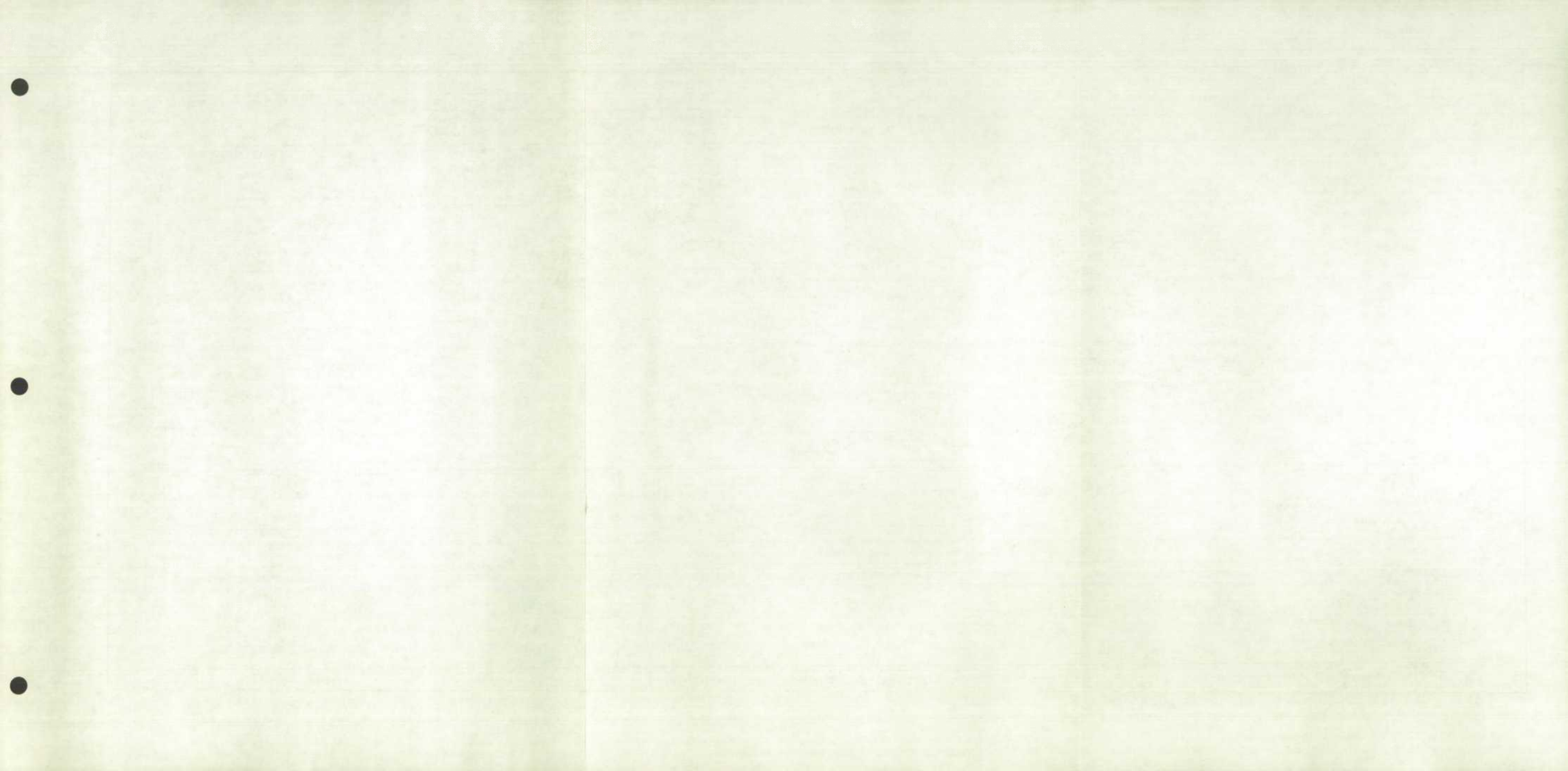
Movements to and from Foreign Areas			
Loaded for:	Tons	Unloaded from:	Tons
Western Europe.....	492,984	U.S. Atlantic and Gulf Ports.....	2,056
Middle East.....	1,060		
Other Africa.....	53,976		
Other Asia.....	81,646		
Oceania.....	110,334		
South America.....	104,492		
Central America and Antilles.....	86,929		
U.S. Atlantic and Gulf Ports.....	906,727		



MOVEMENTS OF NEWSPRINT ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN COASTWISE SHIPPING  
1964

Legend  
L = Tonnage of Cargo Loaded  
U = Tonnage of Cargo Unloaded





MOVEMENTS OF FUEL OIL ON THE GREAT LAKES,  
ST. LAWRENCE RIVER, AND ATLANTIC COAST  
IN INTERNATIONAL SEABORNE SHIPPING  
1964

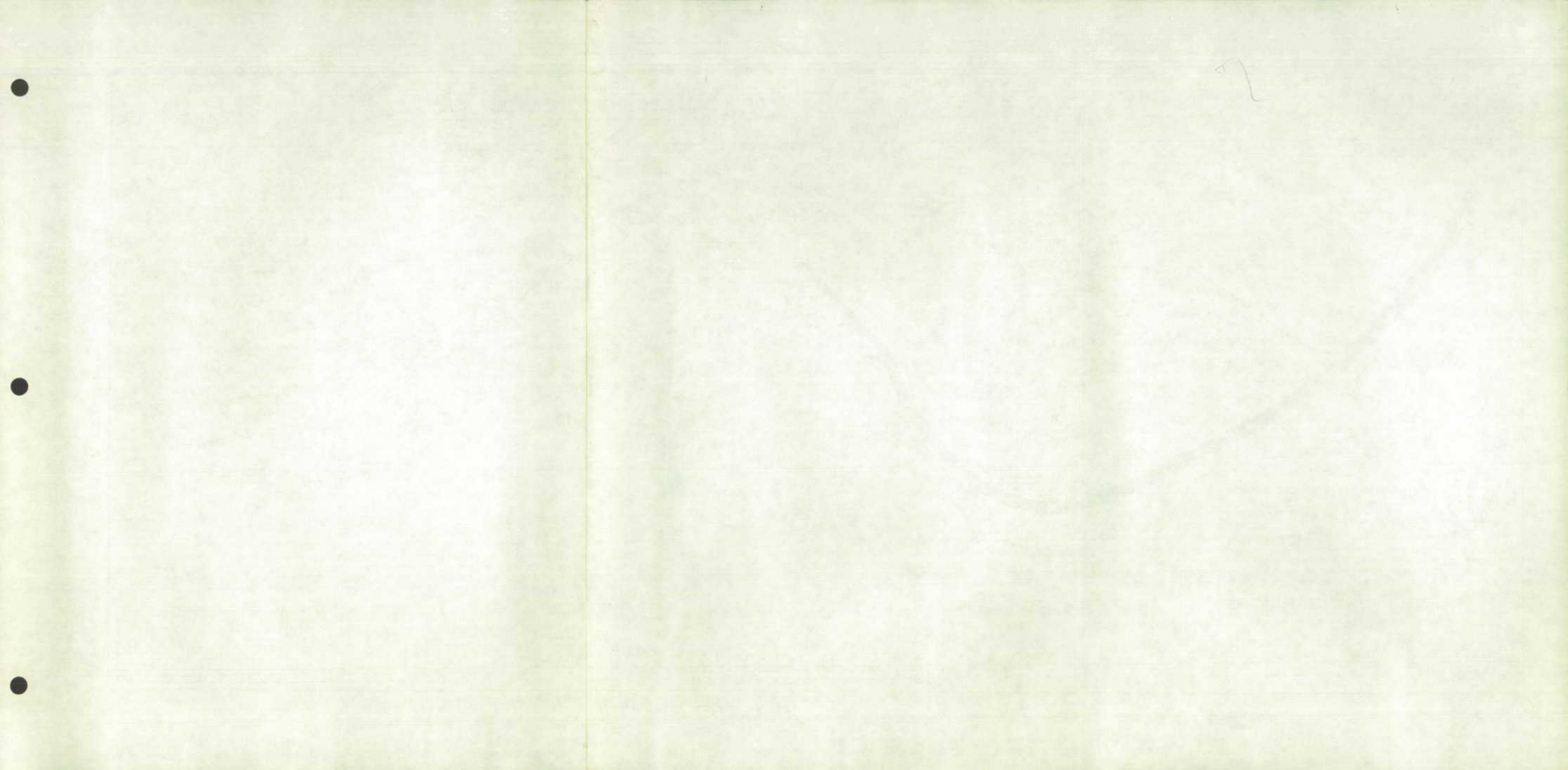
Movements not Included in Flow			
Loaded for:	Tons	Unloaded from:	Tons
U.S. St. Lawrence Ports.....	31,555	U.S. St. Lawrence Ports.....	3,114
		U.S. Lake Huron Ports.....	4,029
		Other U.S. Lake Michigan Ports.....	5,252

Legend			
L. = Tonnage of Cargo Loaded		U. = Tonnage of Cargo Unloaded	

GOOSE BAY  
U. 9,813  
CHURCHILL  
U. 36,254



Movements to and from Foreign Areas			
Loaded for:	Tons	Unloaded from:	Tons
Western Europe.....	17,909	Western Europe.....	47,426
U.S. Atlantic and Gulf Ports.....	56,485	Middle East.....	15,282
		Central America and Antilles.....	2,643,407
		South America.....	1,684,156
		U.S. Atlantic and Gulf Ports.....	98,506

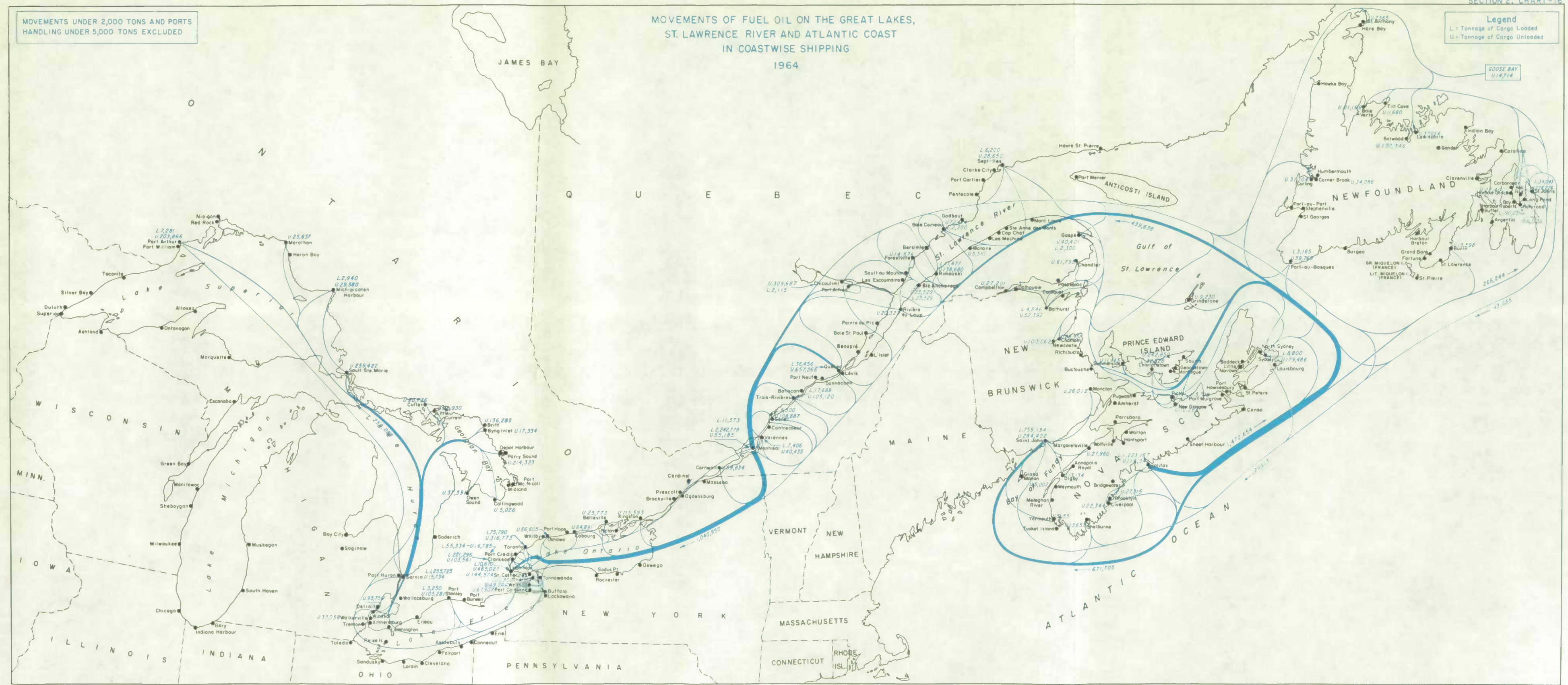


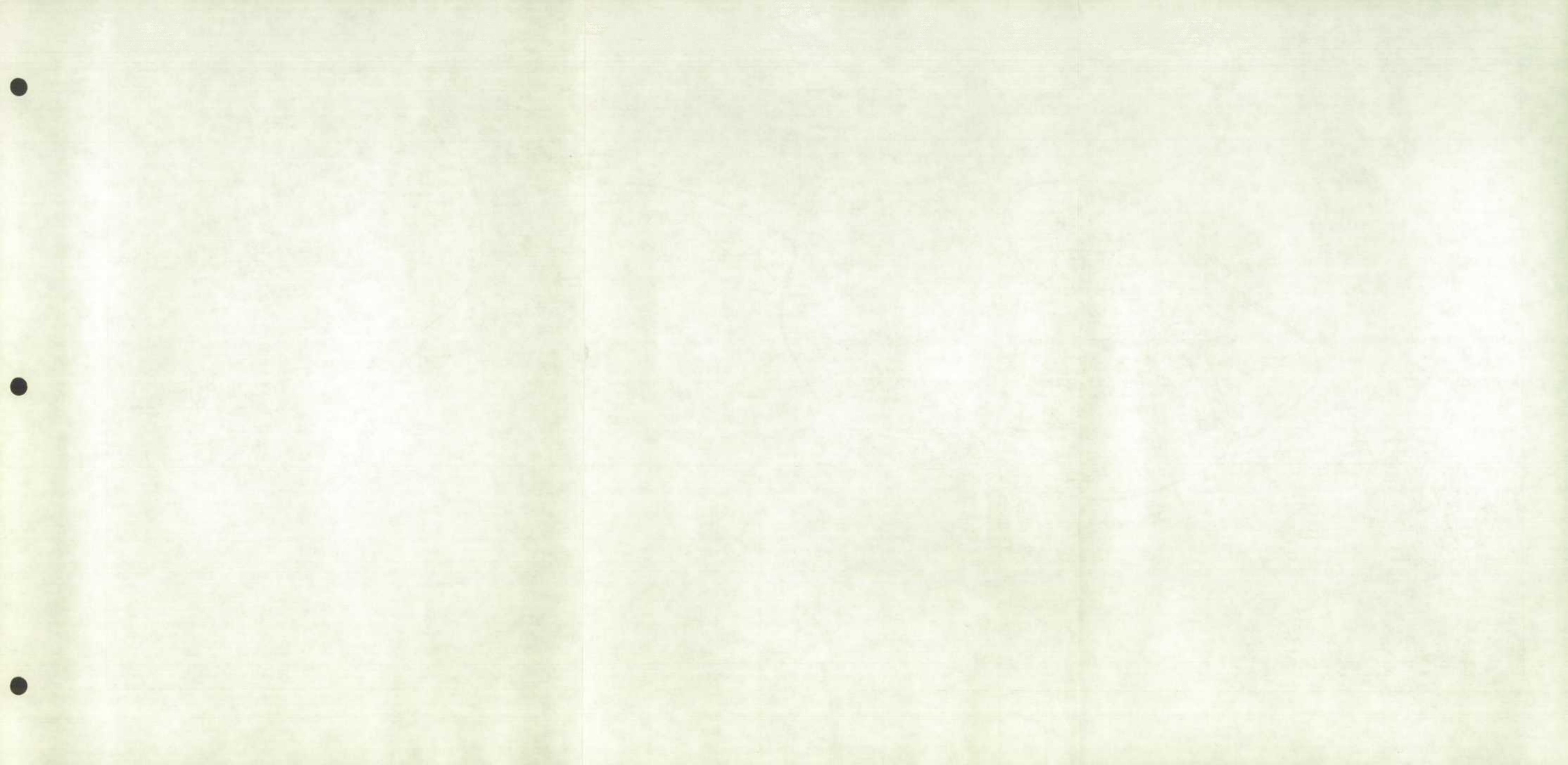


MOVEMENTS UNDER 2,000 TONS AND PORTS HANDLING UNDER 5,000 TONS EXCLUDED

### MOVEMENTS OF FUEL OIL ON THE GREAT LAKES, ST. LAWRENCE RIVER AND ATLANTIC COAST IN COASTWISE SHIPPING 1964

**Legend**  
L = Tonnage of Cargo Loaded  
U = Tonnage of Cargo Unloaded





## APPENDIX A

### List of Countries and Geographic Areas

#### Western Europe

##### Commonwealth Countries

United Kingdom  
Gibraltar  
Malta and Gozo

##### Other Countries

Austria  
Belgium and Luxembourg  
Denmark  
Finland  
France—Atlantic  
France—Mediterranean  
Germany, Federal Republic  
Greece  
Iceland  
Eire  
Italy  
Netherlands  
Norway  
Portugal  
Spain  
Sweden  
Switzerland

#### Eastern Europe

Albania  
Bulgaria  
Czechoslovakia  
Germany, Dem. Rep.  
Hungary  
Poland  
Roumania  
U.S.S.R. — Europe  
Yugoslavia

#### Middle East

##### Commonwealth Countries

Bahreïn  
Cyprus  
Kuwait  
British Middle East, n.e.s.

##### Other Countries

Ethiopia  
Iran  
Iraq  
Israel  
Jordan  
Lebanon  
Libya  
Saudi Arabia  
Somalia  
Sudan  
Turkey  
Egypt  
Syria

#### Other Africa

##### Commonwealth Countries

Ghana  
Kenya  
Mauritius  
Nigeria  
Rhodesia and Nyasaland  
Sierra Leone  
Tanganyika  
Uganda  
Republic of South Africa  
British Africa, n.e.s.

##### Other Countries

Algeria  
Angola  
Ivory Coast  
French West Africa  
French Africa, n.e.s.  
Guinea  
Liberia  
Morocco  
Mozambique  
Portuguese Africa, n.e.s.  
Spanish Africa  
Tunisia  
Other Africa

#### Other Asia

##### Commonwealth Countries

Ceylon  
Hong Kong  
India  
Malaya and Singapore  
Pakistan  
British East Indies, n.e.s.

##### Other Countries

Afghanistan  
Burma  
Cambodia and Laos  
China, Communist  
Indonesia  
Japan  
Korea  
Philippines  
Portuguese India  
Portuguese Asia, n.e.s.  
Taiwan  
Thailand  
U.S.S.R. Pacific  
Viet-Nam

#### Oceania

##### Commonwealth Countries

Australia  
Fiji  
New Zealand  
British Oceania, n.e.s.

List of Countries and Geographic Areas -- Concluded

**Oceania -- Concluded**

Other Countries  
 French Oceania  
 United States Oceania

**South America**

Commonwealth Countries

British Guiana  
 Falkland Islands

Other Countries

Argentina  
 Bolivia  
 Brazil  
 Chile  
 Colombia  
 Ecuador  
 French Guiana  
 Paraguay  
 Peru  
 Surinam  
 Uruguay  
 Venezuela

**Central America and Antilles**

Commonwealth Countries

Bahamas  
 Bermuda  
 British Honduras  
 Barbados  
 Jamaica  
 Leeward and Windward Islands  
 Trinidad and Tobago

Other Countries

Costa Rica  
 Cuba  
 Dominican Republic  
 El Salvador  
 French West Indies  
 Guatemala  
 Haiti (Republic)  
 Honduras  
 Mexico  
 Netherlands Antilles  
 Nicaragua  
 Panama  
 Puerto Rico  
 United States Virgin Islands

**North America**

Canada  
 Greenland  
 St. Pierre and Miquelon  
 U.S. Alaska  
 U.S. Hawaii

U.S. Pacific Ports

Bellingham

U.S. Great Lakes Ports

Duluth  
 Marquette  
 Superior  
 Other U.S. Lake Superior Ports  
 U.S. Lake Huron Ports  
 Chicago  
 Indiana Harbour  
 Other U.S. Lake Michigan Ports  
 Detroit  
 Other Detroit Area Ports  
 Ashtabula  
 Buffalo  
 Cleveland  
 Conneaut  
 Erie  
 Lorain  
 Sandusky  
 Toledo  
 Other U.S. Lake Erie Ports  
 Oswego  
 Rochester  
 Other U.S. Lake Ontario Ports  
 U.S. St. Lawrence Canal Ports

Los Angeles  
 San Francisco  
 Seattle  
 Other U.S. Pacific Mainland Ports

U.S. Atlantic and Gulf Ports

Baltimore  
 Boston  
 Galveston  
 Newport News  
 New Orleans  
 New York  
 Philadelphia  
 Other U.S. East Coast and Gulf of Mexico  
 Ports



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