

CATALOGUE No.

54-201

ANNUAL

Shuf



CANADA

DOMINION BUREAU
OF STATISTICS
JUN 19 1964
PROPERTY OF THE
LIBRARY

CANAL STATISTICS

1963

DOMINION BUREAU OF STATISTICS



DOMINION BUREAU OF STATISTICS
Public Finance and Transportation Division
Transportation Section

CANAL STATISTICS

1963

Published by Authority of
The Minister of Trade and Commerce

May 1964
2504-506

Price: \$1.00

Reports published by the
Public Finance and Transportation Division
dealing with

WATER TRANSPORT

Catalogue number	Title	Price
Periodical		
54-001	Canal Statistics, Monthly – April to December. (4 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	Shipping Statistics, Monthly. (8 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
Annual		
54-201	Canal Statistics. (approx. 80 pp.) Location and description of all canals; historical summary; traffic, by kind of vessel, registry of vessel, 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, gross tonnage, and number of vessels; commodities, by direction, by country of origin and destination	\$1.00
54-202	Shipping Report: Part I, International Seaborne Shipping. (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	Shipping Report: Part II, International Seaborne Shipping. (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 .....	.75
54-204	Shipping Report: Part III, Coastwise Shipping. (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	Shipping Report: Part IV, Origin and Destination for Selected Ports. (approx. 135 pp.) Cargoes loaded and unloaded at Halifax, Saint John, Quebec, Montreal, Toronto, Hamilton, Fort William-Port Arthur, and Vancouver, by country or port of origin or destination, and by commodity. Note: Similar data, available on request, have been tabulated for Bell Island, and Cornerbrook, Nfld.; Sydney, and Hantsport, N.S.; Sept Îles, Baie Comeau, Port Alfred, Trois Rivières, and Sorel, P.Q.; Prescott, Clarkson, Port Colborne, Sarnia, and Sault Ste. Marie, 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	Shipping Report: Part V, Origin and Destination for Selected Commodities. (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
54-205	Water Transportation. (approx. 15 pp.) Number of vessels, number and salaries and wages of employees, revenues and expenses, quantity and cost of fuel consumption, property, number of deaths or injuries caused by accidents, number and value of ships destroyed or lost at sea, by revenue class and by division of the for-hire water transportation industry .....	.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 Unit, Financial Control Section, Dominion Bureau of Statistics, or to the Queen's Printer, Ottawa, Canada.

TABLE OF CONTENTS

	Page
Source and Treatment of Data	7
Analysis of Data	8
Statistical Highlights	8
St. Lawrence Seaway Historical Comparison, 1959-63	8
Charts - Total Freight Traffic through Canadian Canals, 1940-63	10
Freight through Welland, St. Lawrence and Sault Ste. Marie Canals, 1940-63	11
Vessel Traffic through Welland, St. Lawrence and Sault Ste. Marie Canals, 1940-63	11

SECTION I - SUMMARY FOR ALL CANALS

Table

1. Total Traffic through Canadian Canals 1962 and 1963	14
--	----

SECTION II - ST. LAWRENCE SEAWAY CANALS

St. Lawrence Canal

2. Location and Description	18
3. Historical Summary, 1954-63	18
4. Traffic on the St. Lawrence Section of the Seaway by Kind of Vessel	19
5. Traffic on the St. Lawrence Section of the Seaway by Country of Registry of Vessel	19
6. Traffic on the St. Lawrence Section of the Seaway by Length of Vessel	20
7A. Number and Tonnage of Vessels Upbound on the St. Lawrence Section of the Seaway by Origin and Destination	20
7B. Number and Tonnage of Vessels Downbound on the St. Lawrence Section of the Seaway by Origin and Destination	21
8. Number and Tonnage of Vessels Using the St. Lawrence Section of the Seaway by Registry and Rig	22
9. Number and Tonnage of Vessels Using the St. Lawrence Section of the Seaway by Kind and Length	23
10. Number and Tonnage of Vessels Using the St. Lawrence Section of the Seaway by Kind and Draft	24
11A. Cargo Tons Carried Upbound on the St. Lawrence Section of the Seaway by Country of Loading and Unloading	25
11B. Cargo Tons Carried Downbound on the St. Lawrence Section of the Seaway by Country of Loading and Unloading	25
12A. Cargo Tons Carried Upbound on the St. Lawrence Section of the Seaway by Country of Registry of Vessel	26
12B. Cargo Tons Carried downbound on the St. Lawrence Section of the Seaway by Country of Registry of Vessel	26
13. Cargo Tons Carried on the St. Lawrence Section of the Seaway by kind, Gross Tonnage and Number of Vessels	27
14A. Commodities Carried Upbound on the St. Lawrence Section of the Seaway by Country of Loading and Unloading	28
14B. Commodities Carried Downbound on the St. Lawrence Section of the Seaway by Country of Loading and Unloading	30

Welland Canal

15. Location and Description	32
16. Historical Summary, 1954-63	32
17. Traffic on the Welland Section of the Seaway by Kind of Vessel	33
18. Traffic on the Welland Section of the Seaway by Country of Registry of Vessel	33
19. Traffic on the Welland Section of the Seaway by Length of Vessel	34
20A. Number and Tonnage of Vessels Upbound on the Welland Section of the Seaway by Origin and Destination	34
20B. Number and Tonnage of Vessels Downbound on the Welland Section of the Seaway by Origin and Destination	35
21. Number and Tonnage of Vessels Using the Welland Section of the Seaway by Registry and Rig	36
22. Number and Tonnage of Vessels Using the Welland Section of the Seaway by Kind and Length	37
23. Number and Tonnage of Vessels Using the Welland Section of the Seaway by Kind and Draft	38
24A. Cargo Tons Carried Upbound on the Welland Section of the Seaway by Country of Loading and Unloading	39
24B. Cargo Tons Carried Downbound on the Welland Section of the Seaway by Country of Loading and Unloading	39
25A. Cargo Tons Carried Upbound on the Welland Section of the Seaway by Country of Registry of Vessel	40
25B. Cargo Tons Carried Downbound on the Welland Section of the Seaway by Country of Registry of Vessel	40
26. Cargo Tons Carried on the Welland Section of the Seaway by Kind, Gross Tonnage and Number of Vessels	41
27A. Commodities Carried Upbound on the Welland Section of the Seaway by Country of Loading and Unloading	42
27B. Commodities Carried Downbound on the Welland Section of the Seaway by Country of Loading and Unloading	44

TABLE OF CONTENTS—Continued

Table	Page
Sault Ste. Marie Canal	
28. Location and Description	46
29. Historical Summary, 1954-63	46
30. Traffic on the Sault Ste. Marie Section of the Seaway by Kind of Vessel	47
31. Traffic on the Sault Ste. Marie Section of the Seaway by Country of Registry of Vessel	47
32. Traffic on the Sault Ste. Marie Section of the Seaway by Length of Vessel	48
33A. Number and Tonnage of Vessels Upbound on the Sault Ste. Marie Section of the Seaway by Origin and Destination	48
33B. Number and Tonnage of Vessels Downbound on the Sault Ste. Marie Section of the Seaway by Origin and Destination	49
34. Number and Tonnage of Vessels Using the Sault Ste. Marie Section of the Seaway by Registry and Rig	49
35. Number and Tonnage of Vessels Using the Sault Ste. Marie Section of the Seaway by Kind and Length	50
36. Number and Tonnage of Vessels Using the Sault Ste. Marie Section of the Seaway by Kind and Draft	51
37A. Cargo Tons Carried Upbound on the Sault Ste. Marie Section of the Seaway by Country of Loading and Unloading	52
37B. Cargo Tons Carried Downbound on the Sault Ste. Marie Section of the Seaway by Country of Loading and Unloading	52
38A. Cargo Tons Carried Upbound on the Sault Ste. Marie Section of the Seaway by Country of Registry of Vessel	52
38B. Cargo Tons Carried Downbound on the Sault Ste. Marie Section of the Seaway by Country of Registry of Vessel	53
39. Cargo Tons Carried on the Sault Ste. Marie Section of the Seaway by Kind, Gross Tonnage and Number of Vessels	53
40A. Commodities Carried Upbound on the Sault Ste. Marie Section of the Seaway by Country of Loading and Unloading	54
40B. Commodities Carried Downbound on the Sault Ste. Marie Section of the Seaway by Country of Loading and Unloading	54
Lachine and Cornwall Canals	
Lachine	
41. Traffic on the Lachine Canal by Kind and Registry of Vessel	55
42. Number and Tonnage of Vessels Using the Lachine Canal by Origin and Destination, Registry and Rig	55
43. Commodities and Passengers Carried through the Lachine Canal by Country of Loading and Unloading	55
Cornwall	
44. Traffic on the Cornwall Canal by Kind and Registry of Vessel	56
45. Number and Tonnage of Vessels Using the Cornwall Canal by Origin and Destination, Registry and Rig	57
46. Commodities and Passengers Carried through the Cornwall Canal by Country of Loading and Unloading	57
General St. Lawrence Seaway Statistics	
47A. Cargo Tons Carried through the St. Lawrence and/or Welland Canals Loaded and Unloaded at Canadian Ports	58
47B. Cargo Tons Carried through the St. Lawrence and /or Welland Canals Loaded and Unloaded at United States Ports	58
48. Cargo Tons Carried through the Sault Ste. Marie Canal only, Loaded and Unloaded at Canadian and United States Ports..	59
49. Traffic through Canadian and United States Sault Ste. Marie Canals	59
50. Cargo Tons Carried in Interlake Traffic	60
51. Cargoes Carried through St. Lawrence Seaway Canal Networks excluding duplications	60
52. Passengers Carried through St. Lawrence Seaway Canals by Origin and Destination of Vessel	60
53. Water Freight Charges on the Great Lakes for Wheat, 1963 and 1962	61
54. Water Freight Charges on the Great Lakes for Barley and Oats, 1963	62
55. Water Freight Charges on the Great Lakes for Flax and Rye, 1963	63
SECTION III—OTHER CANADIAN CANALS	
St. Peter's Canal	
56. Location and Description	67
57. Historical Summary, 1954-63	67
58. Traffic on the St. Peter's Canal by Kind and Registry of Vessel, 1963	67
59. Number and Tonnage of Vessels Using the St. Peter's Canal by Origin and Destination, Registry and Rig, 1963	68
60. Commodities and Passengers Carried through the St. Peter's Canal by Country of Loading and Unloading, 1963	68

TABLE OF CONTENTS—Concluded

No.		Page
Canso Canal		
61.	Location and Description	68
62.	Historical Summary, 1957-63	68
63.	Traffic on the Canso Canal by Kind and Registry of Vessel, 1963	69
64.	Number and Tonnage of Vessels Using the Canso Canal by Origin and Destination, Registry and Rig, 1963	69
65.	Commodities and Passengers Carried through the Canso Canal by Country of Loading and Unloading, 1963	70
Richelieu River Canal		
66.	Location and Description	70
67.	Historical Summary, 1954-63	70
68.	Traffic on the Richelieu River Canal by Kind and Registry of Vessel, 1963	71
69.	Number and Tonnage of Vessels Using the Richelieu River Canal by Origin and Destination, Registry and Rig, 1963	71
70.	Commodities and Passengers Carried through the Richelieu River Canal by Country of Loading and Unloading, 1963	71
Ottawa River Canals		
71.	Location and Description	72
72.	Historical Summary, 1954-63	72
73.	Traffic on the Ottawa River Canals by Kind and Registry of Vessel, 1963	72
74.	Number and Tonnage of Vessels Using the Ottawa River Canals by Origin and Destination, Registry and Rig, 1963	73
75.	Commodities and Passengers Carried through the Ottawa River Canals by Country of Loading and Unloading, 1963	73
Rideau Canal		
76.	Location and Description	73
77.	Historical Summary, 1954-63	74
78.	Traffic on the Rideau Canal by Kind and Registry of Vessel, 1963	74
79.	Number and Tonnage of Vessels Using the Rideau Canal by Origin and Destination, Registry and Rig, 1963	74
80.	Commodities and Passengers Carried through the Rideau Canal by Country of Loading and Unloading, 1963	75
Murray Canal		
81.	Location and Description	75
82.	Historical Summary, 1954-63	75
83.	Traffic on the Murray Canal by Kind and Registry of Vessel, 1963	76
84.	Number and Tonnage of Vessels Using the Murray Canal by Origin and Destination, Registry and Rig, 1963	76
85.	Commodities and Passengers Carried through the Murray Canal by Country of Loading and Unloading, 1963	76
Trent Canal		
86.	Location and Description	77
87.	Historical Summary, 1954-63	77
88.	Traffic on the Trent Canal by Kind and Registry of Vessel, 1963	77
89.	Number and Tonnage of Vessels Using the Trent Canal by Origin and Destination, Registry and Rig, 1963	77
90.	Commodities and Passengers Carried through the Trent Canal by Country of Loading and Unloading, 1963	78
St. Andrew's Canal		
91.	Location and Description	78
92.	Historical Summary, 1954-63	78
93.	Traffic on the St. Andrew's Canal by Kind and Registry of Vessel, 1963	78
94.	Number and Tonnage of Vessels Using the St. Andrew's Canal by Origin and Destination, Registry and Rig, 1963	79
95.	Commodities and Passengers Carried through the St. Andrew's Canal by Country of Loading and Unloading, 1963	78

SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.

Note: Cargo ton - 2,000 pounds.

CANAL STATISTICS

1963

Source and Treatment of Data

Statistics presented in this report are collected through the co-operation of the St. Lawrence Seaway Authority and, for non-seaway canals, the Department of Transport. For each one way transit of the Seaway or any partial transit involving the St. Lawrence Canals including the Lachine Canal and the Cornwall section, the Welland Canal and Sault Ste. Marie Canal (Canadian lock) vessel operators are required to submit a "Transit Declaration Form" in duplicate to the Seaway Authority. For each non-seaway canal a "Ship's Report" is made in duplicate by the master of the vessel and delivered to the first Canal Officer of each canal used on voyage. The duplicate copy in each case is forwarded to the Dominion Bureau of Statistics. These reports provide full detail of canal traffic, both as to vessel and cargo carried. The Declaration used for Seaway transits makes a division between "Bulk" cargo as defined in the Seaway Traffic and "general" cargo. All domestic freight for both Canada and the United States is given the bulk rate on the Seaway and is, therefore, classified as bulk cargo.

Since the opening of navigation in 1959 tolls have been charged for the use of the St. Lawrence canals, excluding the Lachine and Cornwall canals, and until July 18, 1962, for the Welland Canal. At that date tolls on the Welland Canal were suspended. No toll is charged for the use of the Sault Ste. Marie Canal and vessels use the Canadian and United States locks as convenient. There are five locks at Sault Ste. Marie, one in Canada and four in the United States. Two of the locks on the United States side are 450 feet longer and four are deeper than the Canadian lock and all four are wider. Because of the greater facilities on the United States side of the river a much larger proportion of the traffic uses the United States locks than uses the Canadian lock.

Traffic statistics are complete for each canal. Vessels and cargoes passing through two or more canals from port of loading to port of unloading are included in the statistics for each canal used. A certain percentage of the up-bound traffic through the St. Lawrence Canals uses the Welland and the Sault Ste. Marie canals, mostly on the United States side. Similarly in down-bound traffic some of the vessels using the Sault Ste. Marie Canal also pass through the Welland Canal and the St. Lawrence canals while a considerable percentage of the traffic using the Welland Canal passes through the

St. Lawrence Canals. Practically all the Ottawa River Canal traffic uses the Lachine locks of the St. Lawrence Canals. As a result, the totals for all Canadian canals contain a large amount of duplication.

The directions "Up" and "Down" are according to the direction of the flow of the water except for the Rideau and Trent Canals, which overcome heights of land and consequently use water flowing in opposite directions. For the Rideau Canal the direction from Lake Ontario towards the Ottawa River is classed as "Down", and for the Trent Canal from Lake Huron towards Lake Ontario is classed as "Down". St. Peter's Canal crosses an isthmus and connects St. Peter's Bay with the southerly end of the Bras d'Or Lakes from the northerly end of which access is had to the Atlantic Ocean. The direction from the Bras d'Or Lakes to St. Peter's Bay is classed as "Down". For the Canso Canal the direction through the Strait of Canso from the Gulf of St. Lawrence to the Atlantic Ocean, that is, from George Bay to Port Hastings, is considered as "Down".

The tables appearing in this publication fall into three groups. The first provides information on the total picture of canal traffic in Canada, the second deals with the canals of the St. Lawrence seaway, while the third provides information on other Canadian canals.

The statistics presented are generally comparable with those of previous canal reports. Vessel traffic through each canal is analysed by kind of vessel, by length, and by country of registry with further cross analyses by kind and length, kind and draft, etc. Cargo transported through the Seaway canals is divided between "bulk" and "general" according to type of cargo and rate charged and is shown by country of loading and unloading and by kind and registry of vessel. A table showing commodities carried by country of loading and unloading is provided for each canal. In-transit freight which is shown as a separate item at the foot of these tables represents freight carried up or down the canal, as the case may be, but not unloaded. For example, a vessel loading at Toronto for the United Kingdom may move to its destination via Detroit. The tonnage loaded at Toronto is thus "in transit" up and down the Welland Canal.

Analysis of Data

The volume of cargo transported through all Canadian canals in 1963 increased 17.3 per cent, to 74,585,427 tons. Larger shipments of wheat and iron ore through the St. Lawrence Canals and the Welland Canal accounted for most of this increase. Movements of these two commodities amounted to 48.3 per cent of the total tonnage of freight transported through all canals.

A trend towards the use of fewer but larger vessels began in 1960. This trend is reflected in the number of vessel passages through all Canadian canals in 1963, which declined to 21,811 from 22,836 in 1962, while the registered net tonnage of these vessels rose appreciably, to 59,236,863 tons from 53,510,800 tons in 1962.

The tonnage of freight transported through the St. Lawrence Canals rose by 5,416,511 tons, or 21.0 per cent. This increase was due mainly to increased upbound shipments of iron ore to United States Great Lakes ports, and to downbound movements of

wheat from the Great Lakes to Montreal and St. Lawrence River ports for transshipment overseas.

The tonnage of commodities transported through the Welland Canal increased by 5,814,920 tons, or 16.4 per cent. Most of this increase was evenly divided between shipments of iron ore and wheat. Two-thirds of the total of 12,659,515 tons of iron ore which moved through the Welland Canal in 1963 was upbound, from Canadian ports to U.S. Great Lakes ports, while one-third was downbound, from U.S. Great Lakes ports to Canadian Great Lakes ports.

Of the 86,061,301 tons of cargo transported through the Sault Ste. Marie Canal (Canadian lock and U.S. locks), only 0.9 per cent went through the Canadian lock, compared to 1.4 per cent in 1962. Shipments of iron ore, wheat, and bituminous coal amounted to 88.3 per cent of the total tonnage transported through the locks at Sault Ste. Marie.

Statistical Highlights

The following table provides a statistical picture of the highlights of the 1963 canal navigation season:

	St. Lawrence Canals	Welland Canal
Number of vessels	7,710	7,870
Registered net tonnage	23,138,397	32,625,078
Cargo tonnage	31,164,332	41,325,529
Iron ore	8,155,174	12,659,515
Wheat	7,296,340	7,762,981
Coal, bituminous	968,622	5,019,773

St. Lawrence Seaway Historical Comparison

Because the 1963 canal navigation season was the fifth year of operation of the St. Lawrence Seaway, and because the toll structure for the

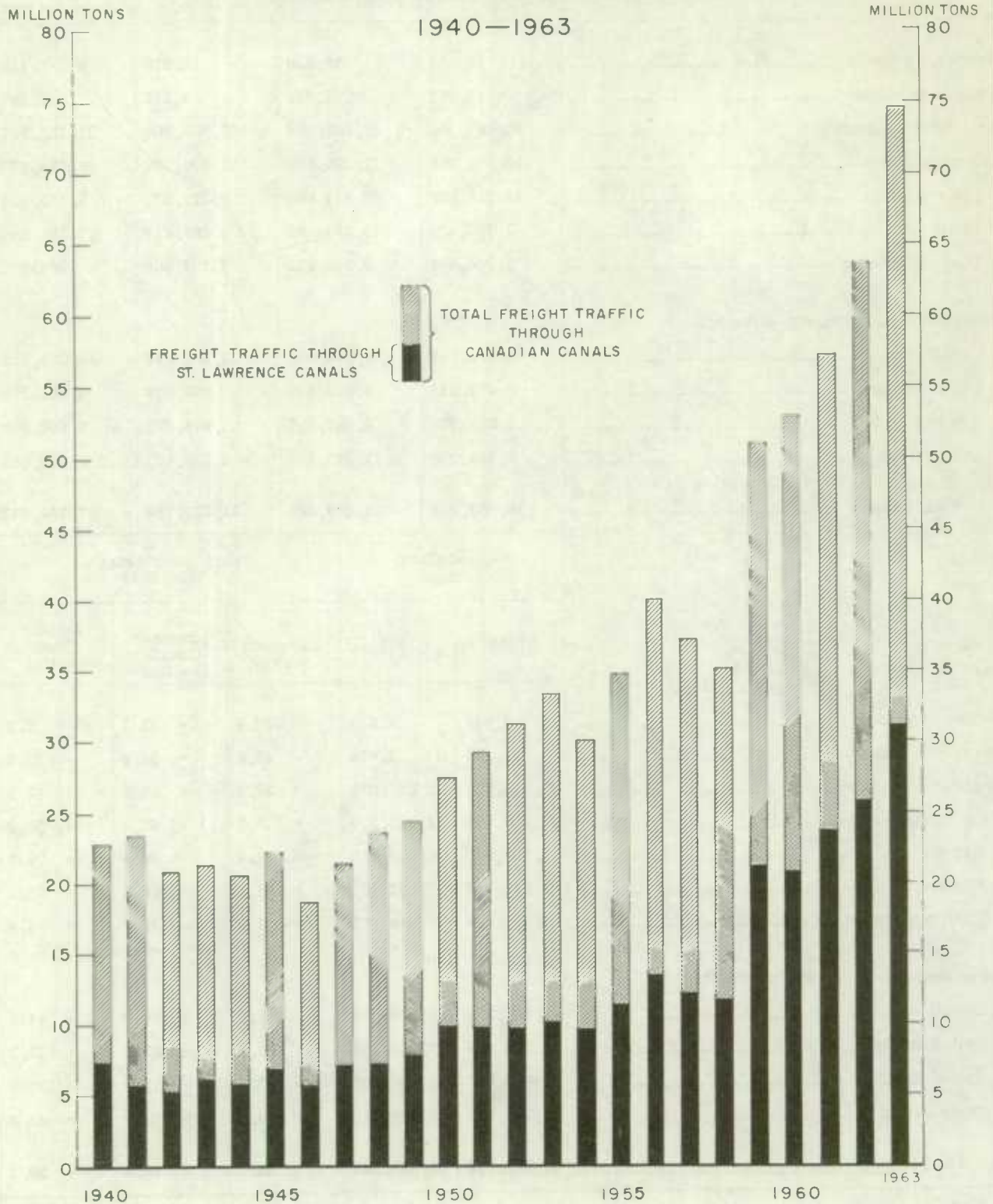
Seaway is being reviewed, the following table is presented to provide a statistical summary of traffic growth from 1959 to 1963:

Vessel and Commodity	St. Lawrence Seaway ¹		St. Lawrence Canals section		
	1959	1963	1959	1963	
Number of vessels	25,653	18,630	12,576	7,710	
Vessels in ballast	13,252	7,875	6,413	2,893	
Registered net tonnage	42,167,106	57,969,254	17,362,398	23,138,397	
Cargo tonnage	49,959,998	73,299,866	21,221,280	31,164,332	
Iron ore	13,571,808	20,814,689	6,275,335	8,155,174	
Wheat	7,630,528	15,076,291	3,587,412	7,296,340	
Coal, bituminous	5,940,604	5,996,912	1,137,068	968,622	
Cargo tonnage, by registry of vessels:					
Canadian	34,373,935	47,794,753	13,832,676	19,095,355	
United States	3,472,032	5,093,839	679,929	1,953,579	
United Kingdom	3,659,775	8,547,767	1,975,073	3,580,933	
Other foreign	8,454,256	11,863,507	4,733,602	6,534,465	
Total tonnage	49,959,998	73,299,866	21,221,280	31,164,332	
	Welland Canal section		Percentage change 1959/1963		
	1959	1963	St. Lawrence Seaway	St. Lawrence Canals section	Welland Canal section
Number of vessels	8,649	7,870	- 27.4	- 38.7	- 9.0
Vessels in ballast	3,139	2,424	- 40.6	- 54.9	- 22.8
Registered net tonnage	22,116,936	32,625,078	+ 37.5	+ 33.3	+ 47.5
Cargo tonnage	27,506,024	41,325,529	+ 46.7	+ 46.9	+ 50.2
Iron ore	7,296,473	12,659,515	+ 53.4	+ 30.0	+ 73.5
Wheat	3,955,984	7,762,981	+ 97.6	+ 103.4	+ 96.2
Coal, bituminous	4,785,408	5,019,773	+ 1.0	- 14.8	+ 4.9
Cargo tonnage, by registry of vessels:					
Canadian	19,387,322	27,926,998	+ 39.0	+ 38.0	+ 44.0
United States	2,729,483	3,102,784	+ 46.7	+ 187.3	+ 13.7
United Kingdom	1,682,367	4,966,705	+ 133.6	+ 81.3	+ 195.2
Other foreign	3,706,852	5,329,042	+ 40.3	+ 38.0	+ 43.8
Total tonnage	27,506,024	41,325,529	+ 46.7	+ 46.9	+ 50.2

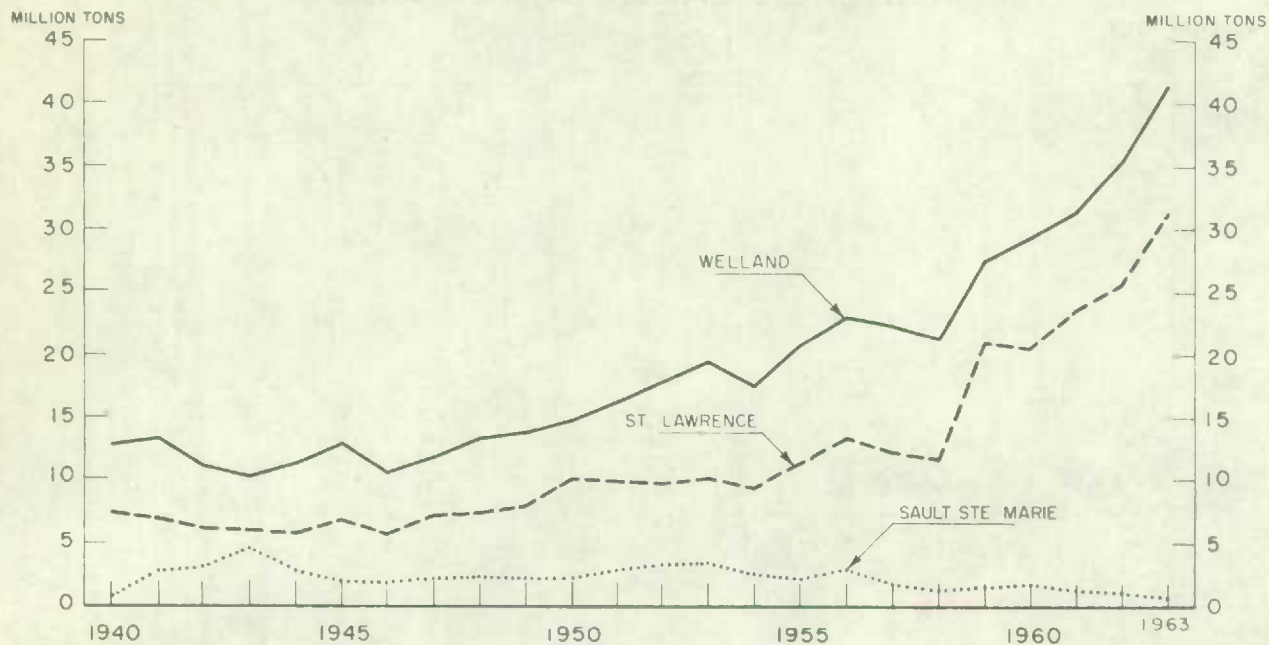
¹ Includes figures for the Sault Ste. Marie Canal section (Canadian lock only).

TOTAL FREIGHT TRAFFIC THROUGH CANADIAN CANALS

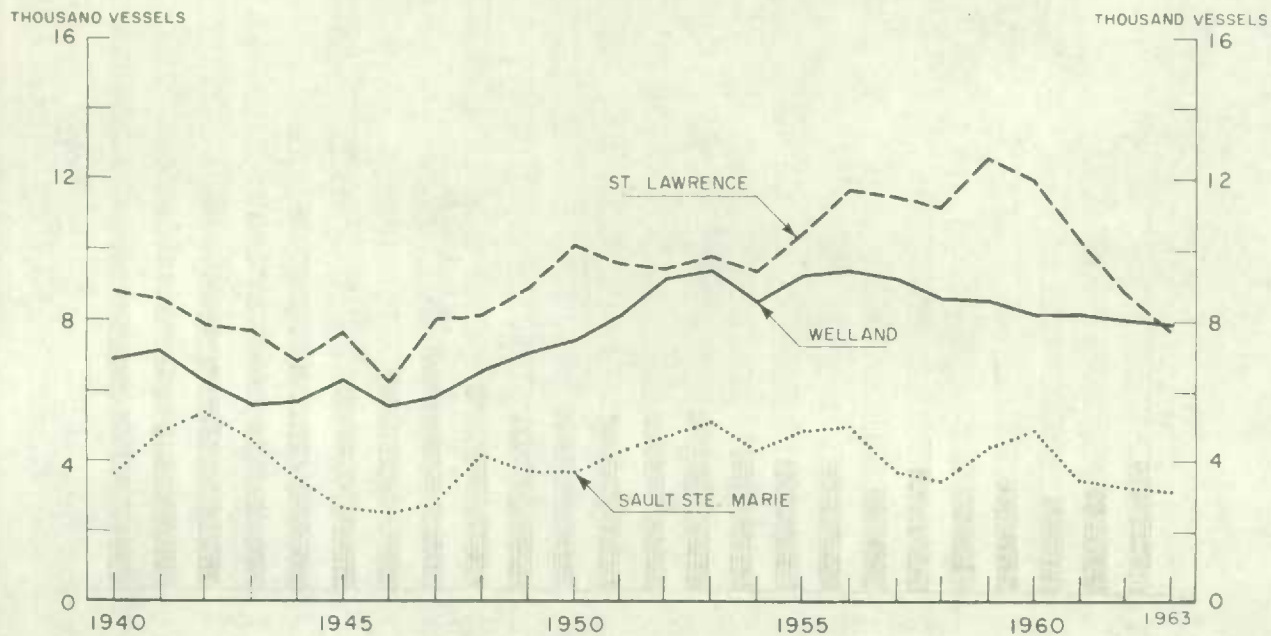
1940—1963

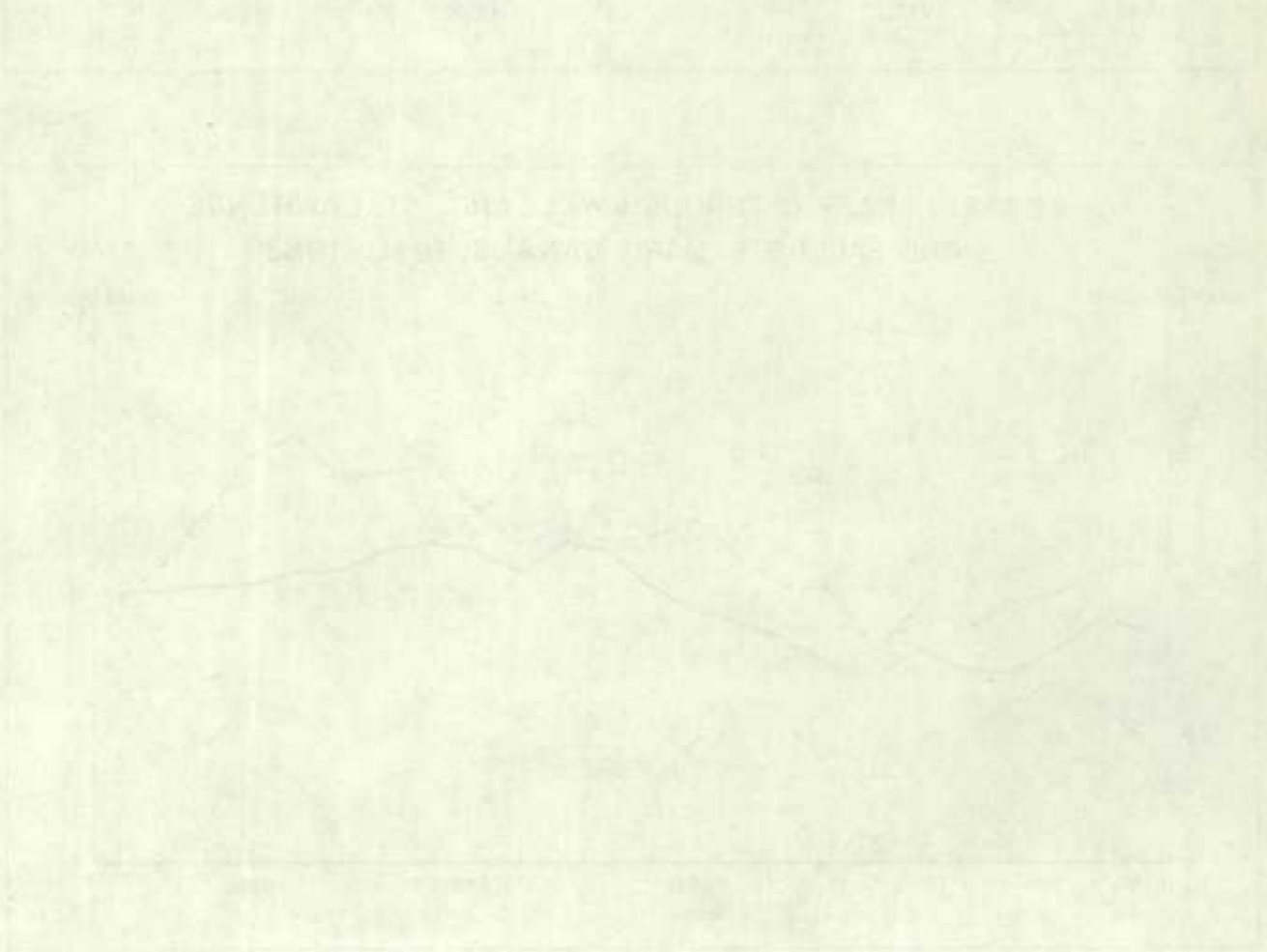
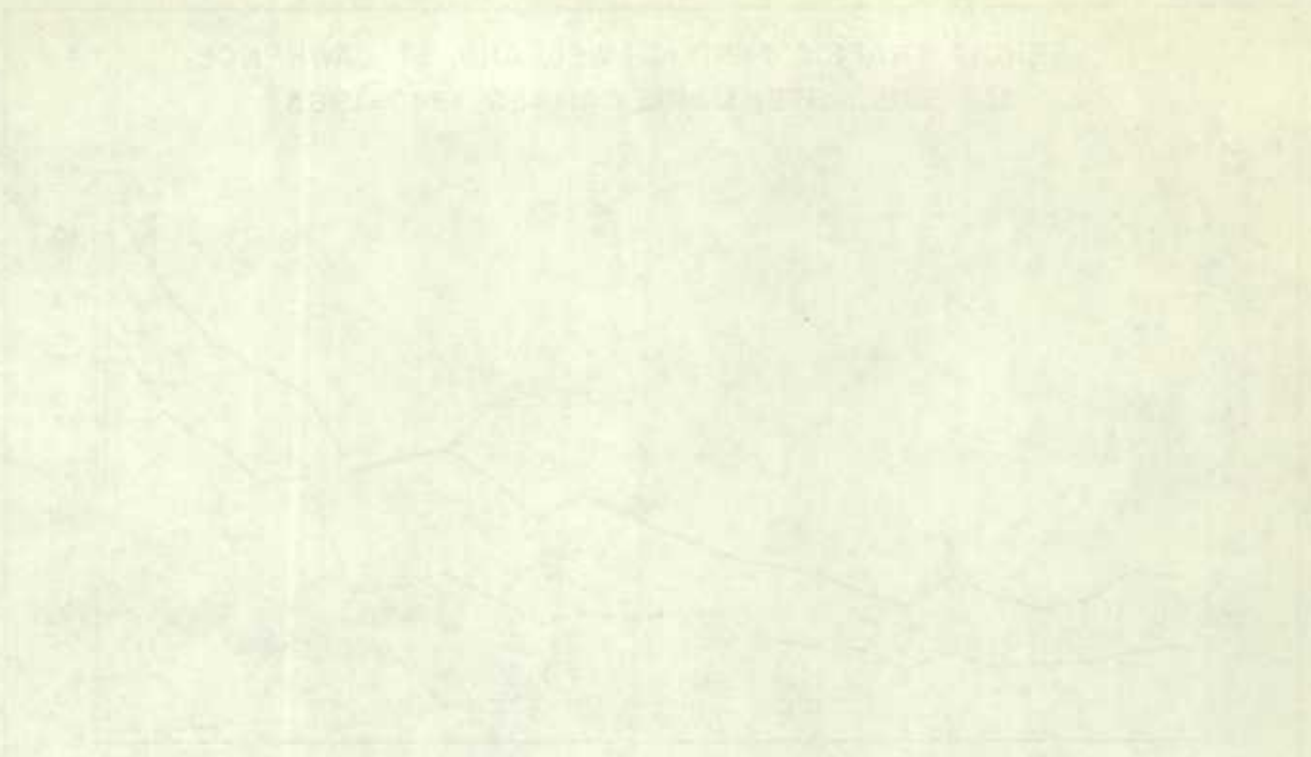


FREIGHT TRAFFIC THROUGH WELLAND, ST. LAWRENCE AND SAULT STE. MARIE CANALS, 1940-1963



VESSEL TRAFFIC THROUGH WELLAND, ST. LAWRENCE AND SAULT STE. MARIE CANALS, 1940-1963





SECTION I
SUMMARY FOR ALL CANALS

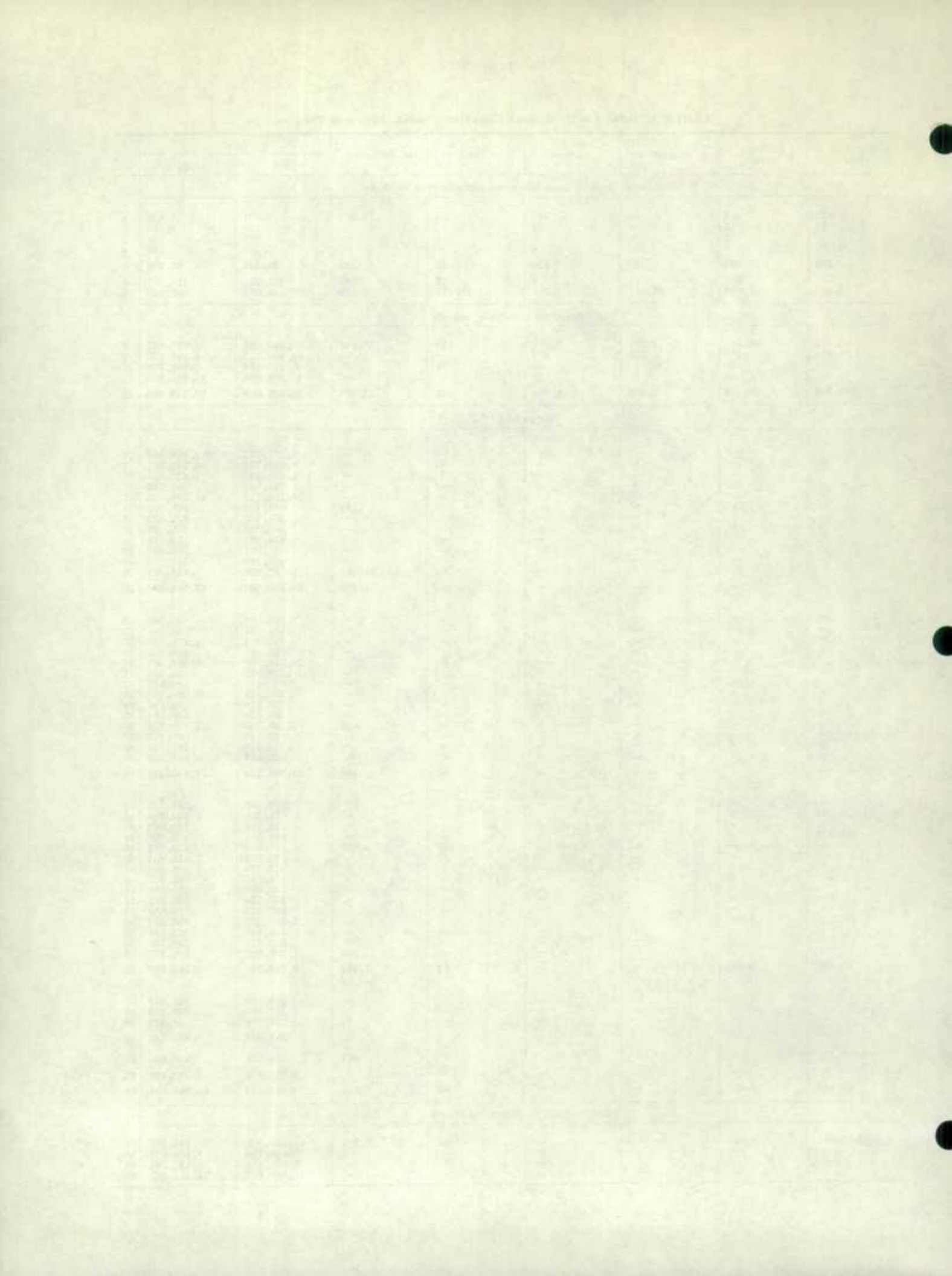
TABLE 1. Total Traffic through Canadian Canals, 1962 and 1963

No.	Registry of vessel	St. Lawrence	Welland	Sault Ste. Marie	St. Peter's	Canso
Number of vessels, passengers and pleasure craft lockages						
1	Canadian vessels	4,861	4,372	1,721	340	897
2	United States vessels	510	1,113	1,317	11	46
3	United Kingdom vessels ¹	687	894	7	1	44
4	Other foreign vessels	1,652	1,491	5	1	93
5	Total vessels	7,710	7,870	3,050	353	1,080
6	Passengers	6,835	1,633	142,663	3	—
7	Pleasure craft lockages	1,671	565	702	149	13
Registered net tonnage of vessels						
8	Canadian vessels	13,651,063	21,497,307	1,870,988	11,339	858,011
9	United States vessels	1,374,344	2,308,264	297,480	227	33,003
10	United Kingdom vessels ¹	2,744,480	4,076,530	24,941	4	86,337
11	Other foreign vessels	5,368,510	4,742,977	12,370	327	123,721
12	Total registered net tonnage	23,138,397	32,625,078	2,205,779	11,897	1,101,072
Commodity		Cargo tons				
Food, feed, beverages and tobacco:						
13	Barley	1,098,797	1,338,327	32,564	—	7,684
14	Corn	2,671,223	2,929,178	—	—	9,393
15	Oats	540,702	616,117	13,342	—	2,991
16	Rye	325,288	331,042	—	—	—
17	Wheat	7,296,340	7,762,981	16,970	—	121,882
18	Flour, wheat	233,806	233,376	—	—	7,802
19	Grain, flour, meal and cereals, n.e.s.	154,014	176,470	35,654	—	1,209
20	Beans and peas, dried	190,391	272,115	—	—	—
21	Sugar	128,465	26,325	—	—	—
22	Molasses, crude and refined	94,427	121,626	—	—	—
23	Soyabean oil cake and meal	264,020	104,168	—	—	—
24	Food, feed, beverages and tobacco, n.e.s.	911,498	802,059	57,920	360	24,299
25	Totals	13,908,971	14,713,784	156,450	360	175,260
Crude materials, inedible:						
26	Raw hides and skins	57,118	42,968	—	—	—
27	Flaxseed	268,127	283,257	—	—	—
28	Soyabeans	660,572	1,049,689	—	—	—
29	Pulpwood	266,835	282,063	7,012	—	37,632
30	Iron ore	8,155,174	12,659,515	—	—	—
31	Metallic ores and concentrates, n.e.s.	119,928	118,837	—	—	—
32	Iron and steel scrap	352,068	313,713	4,704	—	—
33	Coal, bituminous	968,622	5,019,773	8,517	—	1,611
34	Crude petroleum	151,629	—	—	—	—
35	Clay and bentonite	136,889	149,014	—	—	—
36	Sand, gravel and stone crushed	23,250	1,132,831	92,655	—	—
37	Salt	217,437	329,008	10,900	—	76,436
38	Sulphur	81,325	81,325	—	—	9,825
39	Crude materials, inedible, n.e.s.	436,477	254,210	9,359	—	128,819
40	Totals	11,895,451	21,716,203	133,147	—	254,323
Fabricated materials, inedible:						
41	Woodpulp	51,991	49,240	104,735	—	3,219
42	Newsprint paper	309,764	444,133	51,307	—	4,700
43	Sodium products	44	115,485	—	—	—
44	Chemical products, n.e.s.	415,957	380,693	1,812	—	7,566
45	Gasoline	40,971	197,575	72,345	—	249,775
46	Fuel oil	1,364,825	695,318	64,886	—	407,991
47	Lubricating oils and greases	73,450	143,921	—	—	—
48	Coke	227,885	246,768	—	—	—
49	Tar, pitch and cresote	41,036	97,484	7,565	—	—
50	Pig iron	131,547	126,996	609	—	6,272
51	Iron and steel: ingot, billet, rod, etc.	188,259	154,569	15,073	—	—
52	Structural shapes and sheet piling	538,404	390,737	99,451	—	—
53	Iron and steel: n.e.s.	247,986	185,286	3,018	—	4,198
54	Cement	3,709	139,248	2,524	—	57,335
55	Miscellaneous fabricated materials, n.e.s.	674,624	577,350	1,777	—	14,388
56	Totals	4,310,452	4,144,803	425,102	—	755,444
End products, inedible:						
57	Machinery, equipment and parts	132,213	104,500	—	—	—
58	Motor vehicles and parts	135,174	117,066	—	—	—
59	End products, inedible, n.e.s.	35,211	21,440	—	—	—
60	Totals	302,598	243,006	—	—	—
61	Miscellaneous freight, n.e.s.	198,600	78,804	8,045	214	19,509
62	Domestic package freight	550,260	428,929	87,261	—	—
63	Grand totals	31,164,332	41,325,529	810,005	574	1,204,536
Cargo carried, by registry of vessel						
64	Canadian vessels	19,095,355	27,926,998	772,400	454	984,245
65	United States vessels	1,953,579	3,102,784	37,476	—	285
66	United Kingdom vessels ¹	3,580,933	4,966,705	129	—	123,756
67	Other foreign vessels	6,534,465	5,329,042	—	120	96,250

¹ Includes other British Commonwealth.

TABLE 1. Total Traffic through Canadian Canals, 1962 and 1963

Richelieu river	Ottawa river	Rideau	Murray	Trent	St. Andrew's	Total		No.
						1963	1962	
Number of vessels, passengers and pleasure craft lockages								
685	369	64	101	30	381	13,821	13,836	1
71	12	5	21	—	—	3,106	3,524	2
—	1	—	2	1	—	1,637	1,938	3
—	1	—	4	—	—	3,247	3,538	4
756	383	69	128	31	381	21,811	22,836	5
—	366	53	3	18	387	151,961	159,065	6
3,430	7,794	47,692	1,659	99,488	1,510	164,673	149,403	7
Registered net tonnage of vessels								
99,172	28,312	2,592	3,699	358	17,397	38,040,238	31,677,612	8
1,874	408	106	405	—	—	4,016,111	4,045,470	9
—	28	—	70	64	—	6,932,454	6,769,909	10
—	26	—	129	—	—	10,248,060	11,017,809	11
101,046	28,774	2,698	4,303	422	17,397	59,236,863	53,510,800	12
Cargo tons								
—	—	—	—	—	—	2,477,372	2,398,069	13
—	—	—	—	—	—	5,609,794	4,713,032	14
—	—	—	—	—	—	1,173,152	1,420,018	15
—	—	—	—	—	—	656,330	797,548	16
—	—	—	—	—	—	15,198,173	10,275,429	17
—	—	—	—	—	172	475,156	538,685	18
—	—	—	—	—	—	367,347	327,422	19
—	—	—	—	—	—	462,506	286,187	20
—	—	—	—	—	—	154,790	173,885	21
—	—	—	—	—	—	216,053	168,484	22
—	—	—	—	—	—	368,188	245,062	23
—	—	—	—	—	1,350	1,797,526	1,414,569	24
—	—	—	—	—	1,562	28,956,387	22,758,390	25
—	—	—	—	—	—	100,086	88,069	26
—	—	—	—	—	—	551,384	666,799	27
—	—	—	—	—	—	1,710,261	1,978,508	28
—	—	—	—	—	—	593,542	546,301	29
—	—	—	—	—	—	20,814,689	16,288,087	30
—	—	—	—	—	—	238,765	154,763	31
—	—	—	—	—	—	670,485	550,992	32
—	—	—	—	—	—	5,998,523	6,082,192	33
—	—	—	—	—	—	151,629	162,594	34
—	—	—	—	—	—	285,903	189,731	35
—	—	—	—	—	400	1,249,136	1,290,228	36
—	—	—	—	—	—	633,781	507,372	37
—	—	—	—	—	—	172,475	131,038	38
—	—	—	—	—	—	828,865	833,939	39
—	—	—	—	—	400	33,999,524	29,470,613	40
—	—	—	—	—	—	209,185	285,537	41
24,362	—	—	—	—	—	834,266	899,340	42
—	—	—	—	—	—	115,529	125,592	43
43,325	—	—	—	—	—	849,353	855,688	44
—	—	—	—	—	—	561,928	603,972	45
—	—	—	—	27	1,235	2,733,055	2,619,984	46
—	—	—	—	35	—	217,371	205,463	47
—	—	—	—	—	—	474,653	413,305	48
—	—	—	—	—	—	146,085	155,491	49
—	—	—	—	—	—	265,424	335,653	50
—	—	—	—	—	—	357,901	323,680	51
—	5,641	—	—	—	—	1,034,233	895,270	52
—	—	—	—	—	—	440,488	322,168	53
—	—	—	—	—	—	202,816	234,200	54
—	—	—	—	—	319	1,268,458	986,663	55
67,687	5,641	—	—	62	1,554	9,710,745	9,262,006	56
—	—	—	—	—	—	239,103	243,835	57
—	2,390	—	—	—	—	252,240	208,053	58
—	—	—	—	—	51	56,702	39,292	59
—	2,390	—	—	—	51	548,045	491,180	60
857	—	—	—	—	247	304,276	393,965	61
—	—	—	—	—	—	1,066,450	1,192,137	62
68,544	6,031	—	—	62	3,814	74,585,427	63,568,291	63
Cargo carried, by registry of vessel								
68,544	8,031	—	—	62	3,814	48,859,903	39,288,505	64
—	—	—	—	—	—	5,094,124	3,849,671	65
—	—	—	—	—	—	8,671,523	8,181,793	66
—	—	—	—	—	—	11,959,877	12,248,322	67



SECTION II

ST. LAWRENCE SEAWAY CANALS

ST LAWRENCE CANALS¹

TABLE 2. Location and Description

	From	To	Length of channel	Locks				
				Number	Minimum dimensions			
					Length	Width	Depth	
			miles		feet			
Main route:²								
South Shore canal	Montreal	Caughnawaga	20	2	766 ³	80	30	
Beauharnois canal	Melochville	Lake St. Francis	15	2	766 ³	80	30	
Iroquois canal	Iroquois Point		1	1	766 ³	80	30	
Non-toll canals:								
Lachine canal	Montreal	Lachine	8.74	5	270	45	14	
Cornwall (not through canal)	Cornwall	Closure dyke	3.50	4	270	43.67	14	

¹ Includes Lachine and Cornwall canals.² Excludes Wiley-Dondero Canal and two locks near Massena, N.Y. under United States authority. Dimensions are essentially the same as Canadian locks.³ Breastwall to fender.

TABLE 3. Historical Summary, 1954 - 63

Registry of vessel	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Vessel transits										
Upbound:										
Canada	4,372	4,640	5,227	5,082	4,851	4,736	4,158	3,441	2,584	2,436
United States	70	77	92	161	193	340	631	366	356	248
United Kingdom ¹ .....	..	58	78	104	87	298	333	424	462	343
Other foreign	270	315	338	382	516	851	891	875	886	821
Totals	4,712	5,090	5,735	5,729	5,647	6,225	6,013	5,106	4,288	3,848
Downbound:										
Canada	4,387	4,845	5,374	5,133	4,835	4,853	4,178	3,442	2,827	2,425
United States	82	74	111	189	176	350	629	387	359	262
United Kingdom ¹ .....	..	64	93	117	81	308	332	432	462	344
Other foreign	268	315	337	378	506	840	888	890	895	831
Totals	4,737	5,298	5,915	5,817	5,598	6,351	6,027	5,151	4,543	3,882
Grand totals	9,449	10,388	11,650	11,546	11,245	12,576	12,040	10,257	8,831	7,710
Registered net tons										
Upbound:										
Canada	3,833,797	4,071,714	4,519,684	3,987,352	4,030,044	5,322,137	4,614,030	5,589,350	5,555,742	6,847,459
United States	28,882	34,157	39,562	40,187	57,941	507,176	520,540	269,380	494,527	684,956
United Kingdom ¹ .....	..	39,611	56,528	65,724	55,508	803,757	987,579	1,316,171	1,368,560	1,371,721
Other foreign	223,348	262,325	286,072	321,122	427,427	2,038,223	2,583,006	2,593,124	2,814,194	2,652,383
Totals	4,086,027	4,407,807	4,901,846	4,414,385	4,570,920	8,671,293	8,705,155	9,768,027	10,231,023	11,556,519
Downbound:										
Canada	3,834,853	4,297,321	4,684,266	4,029,862	4,025,615	5,392,196	4,532,602	5,508,151	5,637,593	6,803,604
United States	31,288	34,925	43,621	49,339	53,554	468,942	527,828	296,551	504,350	689,388
United Kingdom ¹ .....	..	47,743	68,883	80,647	51,139	812,951	971,340	1,330,289	1,363,849	1,372,759
Other foreign	221,740	258,691	286,035	316,716	416,682	2,017,018	2,596,680	2,630,189	2,851,098	2,716,127
Totals	4,087,881	4,638,680	5,082,805	4,476,564	4,546,990	8,691,105	8,628,450	9,765,180	10,356,890	11,581,878
Grand totals	8,173,908	9,046,487	9,984,651	8,890,949	9,117,910	17,362,398	17,333,605	19,533,205	20,597,913	23,138,397
Cargo tons										
Upbound:										
Canada .....	..	4,391,872	5,323,540	4,686,603	4,099,722	8,085,427	5,610,185	5,585,557	7,006,988	8,398,216
United States .....	..	11,782	2,200	235	925	510,245	306,849	189,285	441,045	1,304,277
United Kingdom ¹ .....	..	44,846	71,453	80,226	78,254	708,082	1,034,710	1,139,442	1,459,496	1,582,221
Other foreign .....	..	333,303	381,103	341,733	491,346	1,851,215	1,910,581	1,333,953	2,041,140	2,374,369
Totals	2,973,706	4,781,803	5,778,296	5,088,797	4,670,247	11,154,969	8,864,325	8,248,237	10,948,669	13,659,083
Downbound:										
Canada .....	..	6,219,723	7,243,194	6,569,682	6,495,606	5,747,249	5,855,170	8,801,205	7,690,684	10,697,139
United States .....	..	36,854	52,114	45,173	29,181	169,684	244,272	337,203	518,187	649,302
United Kingdom ¹ .....	..	55,824	72,735	83,734	63,809	1,266,991	1,654,228	1,935,888	2,036,230	1,998,712
Other foreign .....	..	352,416	353,359	404,106	503,257	2,882,387	4,134,166	4,350,292	4,554,051	4,160,096
Totals	6,663,328	6,664,817	7,721,402	7,102,695	7,091,853	10,066,311	11,887,836	15,424,588	14,799,152	17,505,249
Grand totals	9,637,034	11,446,620	13,499,898	12,191,492	11,762,100	21,221,280	20,752,161	23,672,825	25,747,821	31,164,332
Season of navigation										
First vessel passage	April 13	April 10	April 12	April 10	April 14	April 25	April 18	April 11	April 23	April 15
Last vessel passage	Dec. 11	Dec. 12	Dec. 13	Dec. 13	Dec. 19	Dec. 3	Dec. 3	Dec. 12	Dec. 4	Dec. 13

¹ Includes other British Commonwealth.

TABLE 4. Traffic on the St. Lawrence Section of the Seaway by kind of Vessel¹

Kind of vessel	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
Upbound:							
Cargo	688	1,438	2,126	9,591,472	14,440,426	11,080,356	55
Passenger-cargo	117	90	207	254,824	465,478	188,512	2,699
Cargo-passenger	16	222	238	597,873	1,045,280	598,373	336
Scow, barge, etc.	21	—	21	4,998	5,025	—	—
Tug and scow	44	6	50	13,284	16,282	2,843	—
Tanker	24	390	414	924,295	1,486,295	1,766,611	—
Tug or dredge	112	—	112	10,060	18,237	—	—
Naval or Government	25	—	25	28,848	32,927	—	—
All other types	8	—	8	10,846	19,257	—	—
Totals	1,055	2,146	3,201	11,436,500	17,529,207	13,634,695	3,090
Downbound:							
Cargo	258	1,897	2,155	9,687,283	14,643,911	15,835,674	44
Passenger-cargo	117	63	180	201,141	364,890	233,515	3,462
Cargo-passenger	3	237	240	592,073	1,037,162	899,402	239
Scow, barge, etc.	18	—	18	8,104	8,131	—	—
Tug and scow	78	8	86	19,647	28,335	7,720	—
Tanker	337	75	412	920,040	1,470,968	471,561	—
Tug or dredge	71	—	71	7,065	14,336	—	—
Naval or Government	33	—	33	23,288	27,897	—	—
All other types	9	—	9	1,075	4,930	—	—
Totals	924	2,280	3,204	11,459,716	17,598,560	17,447,872	3,745
Grand totals	1,979	4,426	6,405	22,896,216	35,127,767	31,082,567	6,835

TABLE 5. Traffic on the St. Lawrence Section of the Seaway by Country of Registry of Vessel¹

Country of registry	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
Upbound:							
Canada	714	1,099	1,813	6,737,774	9,636,516	8,375,372	—
United States	158	89	247	683,870	1,041,948	1,304,035	2,514
United Kingdom	29	198	227	854,348	1,467,244	851,878	181
Other British Commonwealth	18	78	96	508,933	809,362	729,719	—
Belgium	4	—	4	52,976	58,864	—	6
Denmark	—	15	15	14,971	28,528	17,476	—
Finland	—	10	10	2,783	4,990	2,599	—
France	12	24	36	153,215	277,039	73,794	—
Germany	11	194	205	490,939	826,111	462,931	158
Greece	16	19	35	190,447	295,812	172,470	—
Italy	5	11	16	58,345	102,445	47,484	—
Netherlands	8	67	75	182,110	323,757	183,844	133
Norway	35	187	222	722,251	1,295,833	611,536	61
Sweden	20	57	77	218,096	408,871	96,677	9
Other Europe	9	18	27	99,656	167,784	41,442	24
Panama	3	2	5	19,300	32,358	14,912	—
Middle East	2	13	15	43,966	76,166	17,368	4
Other Asia	—	26	26	136,185	231,764	140,140	—
Liberia	11	39	50	266,335	441,813	471,018	—
Totals	1,055	2,146	3,201	11,436,500	17,529,207	13,634,695	3,090
Downbound:							
Canada	621	1,167	1,788	6,689,030	9,592,322	10,645,272	—
United States	182	79	261	689,378	1,051,690	649,302	3,313
United Kingdom	21	211	232	866,738	1,486,214	1,376,621	78
Other British Commonwealth	37	57	94	499,217	794,478	616,581	—
Belgium	—	4	4	52,977	58,864	65,547	2
Denmark	10	6	16	19,259	36,296	17,903	—
Finland	—	10	10	2,785	4,990	7,206	—
France	2	34	36	150,352	271,773	280,818	—
Germany	6	199	205	496,347	833,567	765,261	80
Greece	6	32	38	213,139	326,498	307,324	—
Italy	1	17	18	65,735	114,436	129,936	—
Netherlands	—	80	80	199,427	354,174	329,136	145
Norway	5	213	218	712,796	1,278,142	1,279,470	76
Sweden	—	76	76	220,145	411,606	354,493	12
Other Europe	—	27	27	102,755	173,325	207,337	23
Panama	2	5	7	21,851	36,697	44,031	—
Middle East	1	16	17	51,614	89,370	65,030	16
Other Asia	—	27	27	142,396	242,940	119,171	—
Liberia	30	20	50	263,777	441,178	187,433	—
Totals	924	2,280	3,204	11,459,716	17,598,560	17,447,872	3,745
Grand totals	1,979	4,426	6,405	22,896,216	35,127,767	31,082,567	6,835

¹ Excludes non toll traffic using Lachine and Cornwall canals only.

TABLE 6. Traffic on the St. Lawrence Section of the Seaway by Length of Vessel¹

Length of vessel	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
Upbound:							
Under 80 feet.....	180	1	181	10,331	13,843	14,345	1,986
80 to 119 feet.....	89	2	91	11,491	19,151	120	10
120 " 159 ".....	41	42	83	20,159	31,919	23,908	—
160 " 199 ".....	2	1	3	1,281	1,975	349	—
200 " 239 ".....	7	29	36	19,592	31,816	18,961	—
240 " 279 ".....	190	495	685	951,118	1,445,404	1,338,647	1
280 " 319 ".....	5	133	138	200,422	330,151	307,904	11
320 " 359 ".....	103	198	301	685,954	1,030,095	792,484	529
360 " 399 ".....	18	208	226	490,009	856,739	672,200	93
400 " 439 ".....	58	229	287	920,511	1,557,244	631,893	103
440 " 479 ".....	85	191	276	1,073,360	1,844,342	711,795	297
480 " 519 ".....	75	178	253	1,329,770	2,245,137	1,064,300	52
520 " 559 ".....	60	112	172	993,966	1,551,660	1,144,686	2
560 " 599 ".....	9	21	30	196,448	239,980	238,204	—
600 " 639 ".....	28	86	114	872,953	1,238,545	1,394,268	6
640 " 679 ".....	22	77	99	847,402	1,191,502	1,591,545	—
680 " 759 ".....	83	142	225	2,811,233	3,853,704	3,639,186	—
Totals.....	1,055	2,146	3,201	11,436,500	17,529,207	13,634,695	3,090
Downbound:							
Under 80 feet.....	175	1	176	6,863	9,255	7,528	2,743
80 to 119 feet.....	74	—	74	11,325	16,328	—	—
120 " 159 ".....	57	29	86	19,592	31,313	12,906	—
160 " 199 ".....	10	—	10	4,305	5,695	—	—
200 " 239 ".....	12	23	35	14,115	22,938	19,029	—
240 " 279 ".....	245	433	678	937,287	1,427,883	1,195,970	1
280 " 319 ".....	22	109	131	139,098	310,940	312,400	8
320 " 359 ".....	83	218	301	685,064	1,031,471	1,026,696	572
360 " 399 ".....	50	177	227	498,428	870,234	615,171	77
400 " 439 ".....	7	289	296	949,547	1,613,802	1,296,112	71
440 " 479 ".....	12	262	274	1,070,592	1,839,073	1,781,337	225
480 " 519 ".....	53	223	276	1,360,622	2,290,990	2,007,944	36
520 " 559 ".....	42	130	172	995,225	1,550,669	1,493,729	7
560 " 599 ".....	8	21	29	186,959	270,174	248,349	3
600 " 639 ".....	10	111	121	918,738	1,312,046	1,694,905	2
640 " 679 ".....	31	63	94	812,303	1,141,761	1,163,134	—
680 " 759 ".....	33	191	224	2,799,552	3,853,988	4,572,612	—
Totals.....	924	2,280	3,204	11,459,716	17,598,560	17,447,872	3,745
Grand totals.....	1,979	4,426	6,405	22,896,216	35,127,767	31,082,567	6,835

TABLE 7 A. Number and Tonnage of Vessels Upbound on the St. Lawrence Section of the Seaway by Origin and Destination¹

Port of origin and country of registry	Destined to						Total		
	Canada			United States			Number of vessels	Registered net tons	Gross tons
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons			
Originating at ports on the St. Lawrence river:									
Registry:									
Canada.....	1,062	2,906,765	4,289,760	720	3,722,328	5,171,271	1,782	6,629,093	9,461,031
United States.....	2	2,008	3,190	189	477,616	697,312	191	479,624	700,502
United Kingdom.....	18	76,026	121,918	30	162,326	246,347	48	238,352	368,765
Other British Commonwealth.....	28	147,700	245,429	51	269,438	398,512	79	417,138	643,941
Belgium.....	—	—	—	1	13,244	14,716	1	13,244	14,716
France.....	—	—	—	1	2,794	3,121	1	2,794	3,121
Germany.....	—	—	—	1	1,505	2,588	1	1,505	2,588
Greece.....	—	—	—	1	1,474	2,724	1	1,474	2,724
Italy.....	—	—	—	2	8,302	13,863	2	8,302	13,863
Norway.....	4	8,652	14,749	6	24,093	41,476	10	32,745	56,225
Other Europe.....	3	9,210	16,193	—	—	—	3	9,210	16,193
Liberia.....	—	—	—	21	97,594	171,164	21	97,594	171,164
Totals.....	1,117	3,150,361	4,691,239	1,023	4,780,814	6,763,594	2,140	7,931,175	11,454,839

¹ Excludes non toll traffic using Lachine and Cornwall canals only.

TABLE 7A. Number and Tonnage of Vessels Upbound on the St. Lawrence Section of the Seaway by Origin and Destination¹ - Concluded

Port of origin and country of registry	Destined to						Total		
	Canada			United States			Number of vessels	Registered net tons	Gross tons
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons			
Originating at ports outside the Gulf of St. Lawrence: Registry:									
Canada	28	96,131	158,476	3	12,550	19,009	31	108,681	177,485
United States	—	—	—	56	204,246	341,446	56	204,246	341,446
United Kingdom	59	193,282	345,542	120	422,714	752,937	179	615,996	1,098,479
Other British Commonwealth	10	54,848	104,688	7	36,947	60,733	17	91,795	165,421
Belgium	—	—	—	3	39,732	44,148	3	39,732	44,148
Denmark	10	3,834	7,938	5	11,137	20,590	15	14,971	28,528
Finland	—	—	—	10	2,783	4,990	10	2,783	4,990
France	6	25,412	49,051	29	125,009	224,867	35	150,421	273,918
Germany	13	28,170	48,466	191	461,164	775,057	204	489,334	823,523
Greece	12	81,729	119,358	22	107,244	173,730	34	188,973	293,088
Italy	2	6,410	11,702	12	43,633	76,880	14	50,043	88,582
Netherlands	11	21,201	38,916	64	160,909	284,841	75	182,110	323,757
Norway	27	105,339	191,305	185	584,167	1,048,303	212	689,506	1,239,608
Sweden	7	24,590	46,216	70	193,506	362,655	77	218,096	408,871
Other Europe	6	22,661	36,385	18	67,785	115,206	24	90,446	151,591
Panama	2	8,407	13,890	3	10,893	18,468	5	19,300	32,358
Middle East	3	13,900	22,618	12	30,066	53,550	15	43,966	76,168
Other Asia	4	19,650	33,289	22	116,535	198,475	26	136,185	231,764
Liberia	13	85,008	140,447	16	83,733	130,202	29	168,741	270,649
Totals	213	790,572	1,368,287	848	2,714,753	4,706,087	1,061	3,505,325	6,074,374
Grand totals - Upbound	1,330	3,940,933	6,059,526	1,871	7,495,567	11,469,681	3,201	11,436,500	17,529,207

TABLE 7B. Number and Tonnage of Vessels Downbound on the St. Lawrence Section of the Seaway by Origin and Destination¹

Port of destination and country of registry	Originating in						Total		
	Canada			United States			Number of vessels	Registered net tons	Gross tons
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons			
Destined to ports on the St. Lawrence river: Registry:									
Canada	1,258	4,517,642	6,538,860	481	2,024,790	2,826,370	1,739	6,542,432	9,365,230
United States	—	—	—	199	476,533	695,470	199	476,533	695,470
United Kingdom	4	13,992	20,492	30	145,840	213,457	34	159,832	233,949
Other British Commonwealth	35	184,851	301,720	42	220,494	323,013	77	405,345	624,733
France	—	—	—	1	2,791	3,121	1	2,791	3,121
Germany	1	1,717	3,229	1	5,810	8,532	2	7,527	11,761
Norway	—	—	—	4	14,882	25,532	4	14,882	25,532
Panama	1	1,098	1,931	—	—	—	1	1,098	1,931
Middle East	1	4,863	8,189	—	—	—	1	4,863	8,189
Liberia	—	—	—	20	93,160	163,940	20	93,160	163,940
Totals	1,300	4,724,163	6,874,421	778	2,984,300	4,259,435	2,078	7,708,463	11,133,856
Destined to ports outside the Gulf of St. Lawrence: Registry:									
Canada	46	140,704	218,722	3	5,894	8,370	49	146,598	227,092
United States	3	2,396	5,884	59	210,449	350,336	62	212,845	356,220
United Kingdom	65	210,879	381,577	133	496,025	870,688	198	706,904	1,252,265
Other British Commonwealth	12	68,347	127,765	5	25,525	41,980	17	93,872	169,745
Belgium	—	—	—	4	52,977	58,864	4	52,977	58,864
Denmark	10	3,828	7,938	6	15,431	28,358	16	19,259	36,296
Finland	—	—	—	10	2,785	4,990	10	2,785	4,990
France	5	20,118	38,362	30	127,443	230,290	35	147,561	268,652
Germany	12	39,910	64,101	191	448,910	757,705	203	488,820	821,806
Greece	13	84,595	124,108	25	128,544	202,390	38	213,139	326,498
Italy	3	7,509	13,633	15	58,226	100,803	18	65,735	114,436
Netherlands	13	30,359	54,755	67	169,068	299,419	80	199,427	354,174
Norway	33	107,152	196,054	181	590,762	1,056,556	214	697,914	1,252,610
Sweden	11	44,179	80,366	65	175,966	331,240	76	220,145	411,606
Other Europe	8	31,057	51,968	19	71,698	121,357	27	102,755	173,325
Panama	3	9,860	16,298	3	10,893	18,468	6	20,753	34,766
Middle East	2	8,578	14,429	14	38,173	66,752	16	46,751	81,181
Other Asia	1	5,870	9,558	26	136,526	233,382	27	142,396	242,940
Liberia	11	69,255	114,559	19	101,362	162,679	30	170,617	277,238
Totals	251	884,596	1,520,077	875	2,866,657	4,944,627	1,126	3,751,253	6,464,704
Grand totals - Downbound	1,551	5,608,759	8,394,498	1,653	5,850,957	9,204,062	3,204	11,459,716	17,598,560

¹ Excludes non toll traffic using Lachine and Cornwall canals only.

TABLE 8. Number and Tonnage of Vessels Using the St. Lawrence Section of the Seaway by Registry and Rig¹

Country of registry	Steam			Motor			Other			Total		
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Upbound:												
Canada	892	4,952,423	7,107,354	858	1,771,442	2,514,720	63	13,909	16,442	1,813	6,737,774	9,638,516
United States	115	656,097	998,363	125	24,033	39,353	7	3,740	4,232	247	683,870	1,041,948
United Kingdom	95	378,289	622,937	131	475,426	843,674	1	633	633	227	854,348	1,467,244
Other British Commonwealth	88	463,719	736,633	8	45,214	72,729	—	—	—	96	508,933	809,362
Belgium	—	—	—	4	52,976	58,864	—	—	—	4	52,976	58,864
Denmark	—	—	—	15	14,971	28,528	—	—	—	15	14,971	28,528
Finland	—	—	—	10	2,783	4,990	—	—	—	10	2,783	4,990
France	1	3,121	6,336	35	150,094	270,703	—	—	—	36	153,215	277,039
Germany	2	2,967	5,008	203	487,972	821,103	—	—	—	205	490,939	826,111
Greece	23	144,610	216,311	12	45,637	77,501	—	—	—	35	190,447	295,812
Italy	3	12,922	21,106	13	45,423	81,339	—	—	—	16	58,345	102,445
Netherlands	5	22,072	38,294	70	160,038	285,463	—	—	—	75	182,110	323,757
Norway	10	37,854	65,720	212	684,397	1,230,113	—	—	—	222	722,251	1,295,833
Sweden	2	10,076	18,046	75	208,020	390,825	—	—	—	77	218,096	408,871
Other Europe	—	—	—	27	99,656	167,784	—	—	—	27	99,656	167,784
Panama	4	17,183	28,273	1	2,117	4,085	—	—	—	5	19,300	32,358
Middle East	4	19,222	30,807	11	24,744	45,361	—	—	—	15	43,966	76,168
Other	1	4,863	8,189	25	131,322	223,575	—	—	—	26	136,185	231,764
Liberia	18	105,190	167,940	32	161,145	273,873	—	—	—	50	266,335	441,813
Totals	1,263	6,830,608	10,073,317	1,667	4,587,610	7,434,583	71	18,282	21,307	3,201	11,436,500	17,529,207
Downbound:												
Canada	880	4,915,147	7,063,517	813	1,750,042	2,499,038	95	23,841	29,787	1,788	6,689,030	9,592,322
United States	116	669,086	1,019,980	136	16,382	27,011	9	3,910	4,699	261	669,378	1,051,690
United Kingdom	98	387,926	637,293	134	478,810	848,921	—	—	—	232	866,736	1,486,214
Other British Commonwealth	87	457,552	726,274	7	41,665	66,204	—	—	—	94	499,217	794,478
Belgium	—	—	—	4	52,977	58,864	—	—	—	4	52,977	58,864
Denmark	—	—	—	16	19,259	36,296	—	—	—	16	19,259	36,296
Finland	—	—	—	10	2,785	4,990	—	—	—	10	2,785	4,990
France	1	3,121	6,336	35	147,231	265,437	—	—	—	36	150,352	271,773
Germany	3	6,380	11,431	202	489,967	822,136	—	—	—	205	496,347	833,567
Greece	25	158,396	234,207	13	54,743	92,291	—	—	—	38	213,139	326,498
Italy	3	12,922	21,106	15	52,813	93,330	—	—	—	18	65,735	114,436
Netherlands	2	9,644	16,744	78	189,783	337,430	—	—	—	80	199,427	354,174
Norway	11	41,314	74,100	207	671,482	1,204,042	—	—	—	218	712,796	1,278,142
Sweden	1	3,835	6,564	75	216,510	405,042	—	—	—	76	220,145	411,606
Other Europe	—	—	—	27	102,755	173,325	—	—	—	27	102,755	173,325
Panama	5	15,322	25,427	2	8,529	11,270	—	—	—	7	21,851	36,697
Middle East	2	10,185	16,378	15	41,429	72,992	—	—	—	17	51,614	89,370
Other Asia	—	—	—	27	142,398	242,940	—	—	—	27	142,398	242,940
Liberia	15	87,446	140,940	35	176,331	300,238	—	—	—	50	263,777	441,178
Totals	1,249	6,778,076	10,002,297	1,851	4,653,889	7,561,797	104	27,751	34,466	3,204	11,459,716	17,598,560
Grand totals	2,512	13,608,684	20,075,614	3,718	9,241,499	14,996,380	175	46,033	55,773	6,405	22,896,216	35,127,767

¹ Excludes non toll traffic using Lachine and Cornwall canals only.

TABLE 9. Number and Tonnage of Vessels Using the St. Lawrence Section of the Seaway by Kind and Length¹

Kind of vessel and length	Upbound			Downbound			Total		
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Cargo vessel:									
Under 80 feet	109	1,193	1,212	114	1,275	1,288	223	2,468	2,500
80 to 119 feet	1	14	14	—	—	—	1	14	14
120 " 159 "	50	10,516	19,723	50	10,628	19,644	100	21,144	39,367
160 " 199 "	1	266	573	2	506	1,063	3	772	1,636
200 " 239 "	21	12,252	20,967	17	5,065	9,575	38	17,317	30,542
240 " 279 "	467	676,211	1,009,793	464	670,657	1,003,272	931	1,346,868	2,013,065
280 " 319 "	125	179,202	297,889	117	164,264	275,064	242	343,466	572,953
320 " 359 "	229	520,547	785,746	229	519,940	785,081	458	1,040,487	1,570,827
360 " 399 "	180	380,267	671,736	179	383,086	676,146	359	763,353	1,347,882
400 " 439 "	271	860,764	1,467,489	282	898,387	1,537,141	553	1,759,151	3,004,630
440 " 479 "	276	1,073,860	1,844,342	273	1,066,000	1,830,665	549	2,139,860	3,657,007
480 " 519 "	225	1,189,948	1,999,080	230	1,218,778	2,040,488	455	2,408,726	4,039,568
520 " 559 "	157	893,100	1,383,656	159	906,736	1,405,812	316	1,799,836	2,789,468
560 " 599 "	21	120,418	169,972	21	117,826	167,645	42	238,244	337,617
600 " 639 "	114	866,976	1,233,786	120	905,494	1,297,330	234	1,772,470	2,531,116
640 " 679 "	99	847,402	1,191,502	94	812,303	1,114,761	193	1,659,705	2,333,263
680 " 759 "	225	2,811,233	3,853,704	224	2,799,552	3,853,988	449	5,610,785	7,707,692
Totals	2,571	10,444,169	15,951,184	2,575	10,480,497	16,045,963	5,146	20,924,666	31,997,147
Barge or scow:									
Under 80 feet	9	466	468	7	528	528	16	996	996
80 to 119 feet	5	901	901	7	1,878	1,878	12	2,779	2,779
120 " 159 "	5	2,007	2,007	1	574	574	6	2,581	2,581
160 " 199 "	1	633	633	1	521	521	2	1,154	1,154
200 " 239 "	1	989	1,016	1	989	1,016	2	1,978	2,032
280 " 319 "	—	—	—	1	3,614	3,614	1	3,614	3,614
Totals	21	4,998	5,025	18	8,104	8,131	39	13,102	13,156
Tug and scow:									
Under 80 feet	8	203	376	—	—	—	8	203	376
80 to 119 feet	14	2,281	3,584	30	5,145	6,856	44	7,426	10,440
120 " 159 "	20	5,261	6,291	26	5,829	7,708	46	11,090	13,999
160 " 199 "	—	—	—	2	521	740	2	521	740
200 " 239 "	6	3,688	4,180	8	4,829	5,643	14	8,517	9,823
240 " 279 "	2	1,851	1,851	2	1,302	1,851	4	3,153	3,702
480 " 519 "	—	—	—	18	2,021	3,537	18	2,021	3,537
Totals	50	13,284	16,282	86	19,647	26,335	136	32,931	42,617
Tanker:									
160 to 199 feet	—	—	—	2	1,388	1,470	2	1,388	1,470
200 " 239 "	8	2,663	5,653	9	3,233	6,704	17	5,896	12,357
240 " 279 "	217	273,056	434,760	212	265,328	422,760	429	538,384	857,520
280 " 319 "	12	19,324	30,366	12	19,324	30,366	24	38,648	60,732
320 " 359 "	72	165,407	244,349	71	162,929	241,004	143	328,336	485,353
360 " 399 "	40	97,917	169,465	42	103,247	178,556	82	201,164	348,021
400 " 439 "	13	49,210	72,633	13	49,210	72,633	26	98,420	145,266
440 " 479 "	—	—	—	1	4,692	8,408	1	4,692	8,408
480 " 519 "	28	139,822	247,057	28	139,823	246,965	56	279,645	494,022
520 " 559 "	15	100,866	168,004	13	88,489	144,857	28	189,355	312,861
560 " 599 "	9	76,030	114,006	8	69,133	102,529	17	145,163	216,537
600 " 639 "	—	—	—	1	13,244	14,716	1	13,244	14,716
Totals	414	924,295	1,486,295	412	920,040	1,470,968	826	1,844,335	2,957,263
Tug or dredge:									
Under 80 feet	40	940	1,552	38	885	1,785	78	1,825	3,337
80 to 119 feet	68	7,831	14,077	31	3,583	6,654	99	11,414	20,731
120 " 159 "	4	1,289	2,608	1	402	511	5	1,691	3,119
320 " 359 "	—	—	—	1	2,195	5,386	1	2,195	5,386
Totals	112	10,060	18,237	71	7,065	14,336	183	17,125	32,573
Other vessels:									
Under 80 feet	14	260	278	16	213	225	30	473	503
80 to 119 feet	3	464	575	6	719	940	9	1,183	1,515
120 " 159 "	4	1,086	1,290	8	2,159	2,876	12	3,245	4,166
160 " 199 "	1	382	769	3	1,369	1,901	4	1,751	2,670
280 " 319 "	1	1,896	1,896	1	1,896	1,896	2	3,792	3,792
360 " 399 "	6	11,825	15,538	6	12,095	15,532	12	23,920	31,070
400 " 439 "	3	10,537	17,122	2	5,912	9,457	5	16,449	26,579
600 " 639 "	1	13,244	14,716	—	—	—	1	13,244	14,716
Totals	33	39,694	52,184	42	24,363	32,827	75	64,057	85,011
Grand totals	3,201	11,436,500	17,529,207	3,204	11,459,716	17,598,560	6,405	22,896,216	35,127,767

¹ Excludes non toll traffic using Lachine and Comwall canals only.

TABLE 10. Number and Tonnage of Vessels Using the St. Lawrence Section of the Seaway by Kind and Draft¹

Kind of vessel and draft	Upbound			Downbound			Total		
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Cargo vessel:									
5 feet and under	107	1,168	1,187	111	1,233	1,246	218	2,401	2,433
6 to 7 feet	4	1,150	1,762	4	453	453	8	1,603	2,215
8 " 9 "	3	2,392	3,523	1	170	371	4	2,562	3,894
10 " 11 "	22	14,284	22,469	14	2,906	6,161	36	17,190	28,630
12 " 13 "	58	48,359	81,332	48	29,927	55,700	106	78,286	137,032
14 " 15 "	96	161,665	235,193	84	117,495	167,352	180	279,160	402,545
16 " 17 "	285	592,591	993,129	290	610,030	1,017,943	575	1,202,621	2,011,072
18 " 19 "	399	722,652	1,073,208	399	708,445	1,057,220	798	1,431,097	2,130,428
20 " 21 "	370	1,189,489	1,756,581	369	1,189,577	1,748,776	739	2,379,066	3,505,357
22 " 23 "	176	658,775	1,028,454	176	683,246	1,048,842	352	1,342,021	2,077,296
24 " 25 "	410	2,259,058	3,504,539	425	2,316,157	3,600,914	835	4,575,215	7,105,453
26 " 27 "	346	3,081,446	4,401,539	341	3,024,977	4,342,629	687	6,106,423	8,744,168
28 " 29 "	166	954,707	1,602,341	181	1,038,238	1,743,528	347	1,992,945	3,345,869
30 feet and over	129	756,433	1,245,927	132	757,643	1,254,828	261	1,514,076	2,500,755
Totals	2,571	10,444,169	15,951,184	2,575	10,480,497	16,045,963	5,146	20,924,666	31,997,147
Barge or scow:									
5 feet and under	13	2,878	2,878	13	6,224	6,224	26	9,102	9,102
6 to 7 feet	5	365	365	2	630	630	7	995	995
8 " 9 "	2	766	766	—	—	—	2	766	766
10 " 11 "	—	—	—	1	219	219	1	219	219
12 " 13 "	1	989	1,018	1	989	1,016	2	1,978	2,032
18 " 19 "	—	—	—	1	42	42	1	42	42
Totals	21	4,998	5,025	18	8,104	8,131	39	13,102	13,156
Tug and scow:									
5 feet and under	12	955	1,219	20	2,131	3,709	32	3,086	4,928
6 to 7 feet	2	550	634	8	1,336	1,700	10	1,886	2,334
8 " 9 "	12	2,482	3,561	32	6,736	9,087	44	9,218	12,648
10 " 11 "	18	6,437	7,723	12	4,203	4,757	30	10,640	12,480
12 " 13 "	4	1,009	1,294	10	3,738	4,733	14	4,747	6,027
14 " 15 "	—	—	—	2	201	498	2	201	498
16 " 17 "	2	1,851	1,851	2	1,302	1,851	4	3,153	3,702
Totals	50	13,284	16,282	86	19,647	26,335	136	32,931	42,617
Tanker:									
10 to 11 feet	1	187	500	6	2,525	4,021	7	2,712	4,521
12 " 13 "	41	45,981	67,548	38	45,031	65,500	79	91,012	133,048
14 " 15 "	59	79,477	114,318	57	76,341	109,998	116	155,818	224,316
16 " 17 "	93	157,276	265,006	93	156,398	263,278	186	313,674	528,284
18 " 19 "	63	77,106	136,302	62	75,882	133,724	125	152,988	270,026
20 " 21 "	34	58,741	100,180	31	53,712	90,789	65	112,453	190,969
22 " 23 "	20	53,652	81,902	24	61,722	96,516	44	115,374	178,418
24 " 25 "	23	77,542	121,503	22	69,132	105,162	45	146,674	226,665
26 " 27 "	42	134,769	202,356	40	129,813	195,664	82	264,582	398,020
28 " 29 "	20	103,425	182,252	22	113,206	199,568	42	216,631	381,820
30 feet and over	18	136,139	214,428	17	136,278	206,748	35	272,417	421,176
Totals	414	924,295	1,486,295	412	920,040	1,470,968	826	1,844,335	2,957,263
Tug or dredge:									
5 feet and under	21	755	949	14	206	305	35	961	1,254
6 to 7 feet	16	1,041	1,421	12	797	1,023	28	1,838	2,444
8 " 9 "	20	2,613	4,070	13	1,072	1,661	33	3,685	5,731
10 " 11 "	32	3,205	6,526	18	1,644	3,640	50	4,849	10,166
12 " 13 "	20	2,042	4,002	13	1,151	2,321	33	3,193	6,323
14 " 15 "	3	404	1,269	—	—	—	3	404	1,269
18 " 19 "	—	—	—	1	2,195	5,386	1	2,195	5,386
Totals	112	10,060	18,237	71	7,065	14,336	183	17,125	32,573
Other vessels:									
5 feet and under	12	294	373	14	366	486	26	660	859
6 to 7 feet	3	91	97	7	625	738	10	716	835
8 " 9 "	1	106	150	6	1,520	1,902	7	1,626	2,052
10 " 11 "	1	233	233	3	1,030	1,306	4	1,263	1,539
12 " 13 "	8	6,408	7,269	4	3,449	4,040	10	9,857	11,309
14 " 15 "	1	2,800	2,800	2	5,600	5,600	3	8,400	8,400
16 " 17 "	1	1,067	2,372	1	1,067	2,372	2	2,134	4,744
18 " 19 "	4	8,813	14,493	4	8,810	14,487	8	17,623	28,980
22 " 23 "	1	4,622	7,665	—	—	—	1	4,622	7,665
30 feet and over	3	15,260	16,732	1	1,896	1,896	4	17,156	18,628
Totals	33	39,694	52,184	42	24,363	32,827	75	64,057	85,011
Grand totals	3,201	11,436,500	17,529,207	3,204	11,459,716	17,598,560	6,405	22,896,216	35,127,767

¹ Excludes non toll traffic using Lachine and Cornwall canals only.

TABLE 11 A. Cargo Tons Carried Upbound on the St. Lawrence Section of the Seaway by Country of Loading and Unloading¹

Country of loading	Cargo unloaded								
	In Canada			In United States			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
	tons								
Ports on the St. Lawrence river:									
Canada	2,104,313	1,591	2,105,904	8,267,177	261,869	8,529,046	10,371,490	263,460	10,634,950
United States	—	—	—	4,718	—	4,718	4,718	—	4,718
Totals	2,104,313	1,591	2,105,904	8,271,895	261,869	8,533,764	10,376,208	263,460	10,639,668
Ports outside the Gulf of St. Lawrence:									
Canada Atlantic ports	244,920	—	244,920	11,196	64,251	75,447	256,116	64,251	320,367
United States Atlantic and Gulf ports ..	46,863	591	47,454	93,822	21,566	115,388	140,685	22,157	162,842
United States Pacific ports	572	8,093	8,665	—	—	—	572	8,093	8,665
United Kingdom	33,709	116,293	150,002	37,208	170,182	207,390	70,917	286,475	357,392
West Indies (Commonwealth)	98,155	1,265	99,420	28,771	—	28,771	126,926	1,265	128,191
Other British Commonwealth	70,052	19,437	89,489	37,161	59,288	96,449	107,213	78,725	185,938
Belgium	6,436	77,729	84,165	13,168	337,430	350,598	19,604	415,159	434,763
Denmark	86	1,491	1,577	384	4,352	4,736	470	5,843	6,313
Finland	155	930	1,085	32,153	10,316	42,469	32,308	11,246	43,554
France	518	8,614	9,132	55,438	53,174	108,612	55,956	61,788	117,744
Germany	1,449	55,007	56,456	14,804	128,190	142,994	16,253	183,197	199,450
Greece	—	879	879	21,642	419	22,061	21,642	1,098	22,740
Italy	14,442	17,750	32,192	4,755	24,039	28,794	19,197	41,789	60,986
Netherlands	3,794	17,149	20,943	17,753	34,493	52,246	21,547	51,642	73,189
Norway	413	1,875	2,288	6,561	30,857	37,418	6,974	32,732	39,706
Portugal	13	7,988	8,001	142	3,608	3,750	155	11,596	11,751
Sweden	470	8,519	8,989	16,738	18,398	35,136	17,208	26,917	44,125
Other Europe	8,526	11,847	20,373	26,092	19,198	45,290	34,618	31,045	65,663
Central America and Caribbean	121,378	—	121,378	48,439	—	48,439	169,817	—	169,817
South America	174,931	4,347	179,278	39,214	4,318	43,532	214,145	8,665	222,810
Middle East	14	5,860	5,874	140	308	448	154	6,168	6,322
Other Asia	1,209	25,132	26,341	2,449	147,009	149,458	3,658	172,141	175,799
Other Africa	41,326	2,555	43,881	7,085	5,962	13,047	48,411	8,517	56,928
Other countries	—	4,114	4,114	—	190	190	—	4,304	4,304
Totals	869,431	397,265	1,266,696	515,115	1,137,548	1,652,663	1,384,546	1,534,813	2,919,359
In transit freight .....	..	..	..	..	..	..	75,668	—	75,668
Grand totals — Upbound	2,973,744	398,856	3,372,600	8,787,010	1,399,417	10,186,427	11,836,422	1,798,273	13,634,695

TABLE 11 B. Cargo Tons Carried Downbound on the St. Lawrence Section of the Seaway by Country of Loading and Unloading¹

Country of unloading	Cargo loaded								
	In Canada			In United States			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
	tons								
Ports on the St. Lawrence river:									
Canada	7,084,007	—	7,084,007	4,593,142	334	4,593,476	11,677,149	334	11,677,483
United States	—	—	—	61,881	—	61,881	61,881	—	61,881
Totals	7,084,007	—	7,084,007	4,655,023	334	4,655,357	11,739,030	334	11,739,364
Ports outside the Gulf of St. Lawrence:									
Canada Atlantic ports	244,255	—	244,255	8,862	188	9,050	253,117	188	253,305
United States Atlantic and Gulf ports ..	4,771	3,015	7,786	—	8	8	4,771	3,023	7,794
United States Pacific ports	—	1,163	1,163	—	—	—	—	1,163	1,163
United Kingdom	536,151	74,004	610,155	604,838	53,951	658,789	1,140,969	127,956	1,268,944
West Indies (Commonwealth)	922	5,904	6,826	2,851	5,401	8,252	3,773	11,305	15,078
Other British Commonwealth	9,328	21,028	30,356	49,711	136,813	186,524	59,039	157,841	216,880
Belgium	40,712	8,242	48,954	257,211	35,962	293,173	297,923	44,204	342,127
Denmark	9,968	754	10,722	69,806	3,726	73,532	79,574	4,480	84,054
Finland	2,470	265	2,735	1,623	2,176	3,799	4,093	2,441	6,534
France	13,416	10,855	24,271	75,263	38,250	113,513	88,679	49,105	137,784
Germany	59,499	18,334	77,833	349,762	44,855	394,617	409,261	63,189	472,450
Greece	249	988	1,237	6,176	4,696	10,872	6,425	5,684	12,109
Italy	30,299	52,420	82,719	186,459	52,525	238,984	216,758	104,945	321,703
Netherlands	142,884	18,502	161,386	984,263	120,813	1,105,076	1,127,147	139,315	1,266,462
Norway	28,275	2,492	30,767	35,556	4,408	39,964	63,831	6,900	70,731
Portugal	11	1,413	1,424	13,054	3,047	16,101	13,065	4,460	17,525
Sweden	20	6,443	6,463	5,405	19,077	24,482	5,425	25,520	30,945
Other Europe	862	8,147	9,009	103,534	59,660	163,194	104,396	67,807	172,203
Central America and Caribbean	137	323	460	20,219	3,673	23,892	20,356	3,996	24,352
South America	49,680	11,129	60,809	63,334	59,307	122,641	113,014	70,436	183,450
Middle East	2,329	7,907	10,236	45,085	53,436	98,521	47,414	61,343	108,757
Other Asia	129,648	12,365	142,013	303,117	79,579	382,696	432,765	91,944	524,709
Other Africa	9,969	2,008	11,977	68,121	34,819	102,940	78,090	36,827	114,917
Other countries	—	—	—	—	1,105	1,105	—	1,105	1,105
Totals	1,315,855	267,701	1,583,556	3,254,050	817,475	4,071,525	4,569,905	1,085,176	5,655,081
In transit freight .....	..	..	..	..	..	..	53,427	—	53,427
Grand totals — Downbound	8,399,862	267,701	8,667,563	7,909,073	817,809	8,726,882	16,362,362	1,085,510	17,447,872

¹ Excludes non toll traffic using Lachine and Cornwall canals only.

TABLE 12 A. Cargo Tons Carried Upbound on the St. Lawrence Section of the Seaway by Country of Registry of Vessel¹

Loaded at	Registry of vessel	Cargo tons			
		Bulk	General	Total	
Ports on the St. Lawrence river	Canada	7,985,320	250,171	8,235,491	
	United States	1,198,238	—	1,198,238	
	United Kingdom	299,757	—	299,757	
	Other British Commonwealth	598,403	13,278	611,681	
	Netherlands	—	10	10	
	Sweden	—	1	1	
	Liberia	294,490	—	294,490	
	Totals	10,376,208	263,460	10,639,668	
	Ports outside the Gulf of St. Lawrence	Canada	126,287	4,652	130,939
		United States	53,507	44,337	97,844
United Kingdom		229,411	293,520	522,931	
Other British Commonwealth		109,133	8,905	118,038	
Denmark		9,944	7,520	17,464	
Finland		11	2,585	2,596	
France		45,523	28,271	73,794	
Germany		49,211	425,464	474,675	
Greece		141,358	31,112	172,470	
Italy		23,618	23,850	47,468	
Netherlands		11,842	164,700	176,542	
Norway		363,531	247,237	610,768	
Sweden		39,728	56,948	96,676	
Other Europe		12,902	21,885	34,787	
Panama		—	14,912	14,912	
Middle East		752	14,109	14,861	
Other Asia		2,801	133,285	136,086	
Liberia		164,987	11,541	176,528	
Totals		1,384,546	1,534,813	2,919,359	
In transit freight		75,668	—	75,668	
Grand totals — Upbound		11,836,422	1,798,273	13,634,695	

TABLE 12 B. Cargo Tons Carried Downbound on the St. Lawrence Section of the Seaway by Country of Registry of Vessel¹

Unloaded at	Registry of vessel	Cargo tons		
		Bulk	General	Total
Ports on the St. Lawrence river.....	Canada	10,455,505	—	10,455,505
	United States	412,915	—	412,915
	United Kingdom	302,352	—	302,352
	Other British Commonwealth	548,912	—	548,912
	Germany	—	6	6
	Netherlands	—	328	328
	Norway	19,346	—	19,346
	Totals	11,739,030	334	11,739,364
Ports outside the Gulf of St. Lawrence	Canada	178,378	2,447	180,825
	United States	57,918	170,516	228,434
	United Kingdom	1,015,992	57,410	1,073,402
	Other British Commonwealth	52,851	14,816	67,669
	Belgium	65,547	—	65,547
	Denmark	15,976	1,915	17,891
	Finland	—	7,206	7,206
	France	262,961	17,857	280,818
	Germany	530,994	226,791	757,785
	Greece	272,024	35,300	307,324
	Italy	99,992	29,944	129,936
	Netherlands	232,882	88,676	321,558
	Norway	1,120,585	138,843	1,259,428
	Sweden	249,978	104,515	354,493
	Other Europe	163,640	30,041	193,681
	Panama	34,347	9,684	44,031
	Middle East	26,188	36,335	62,523
	Other Asia	24,083	91,014	115,097
	Liberia	165,569	21,864	187,433
	Totals	4,569,905	1,085,176	5,655,081
In transit freight	53,427	—	53,427	
Grand totals — Downbound	16,362,362	1,085,510	17,447,872	

¹ Excludes non toll traffic using Lachine and Cornwall canals only.

TABLE 13. Cargo Tons Carried on the St. Lawrence Section of the Seaway by Kind, Gross Tonnage and Number of Vessels¹

Kind of vessel and gross tonnage	Upbound							Downbound						
	Number of vessels			Cargo tons			Average cargo tons per loaded vessel	Number of vessels			Cargo tons			Average cargo tons per loaded vessel
	In ballast	With cargo	Total	Bulk	General	Total		In ballast	With cargo	Total	Bulk	General	Total	
Cargo vessel:														
Under 1,000 gross tons	120	57	177	23,520	4,660	28,180	495.1	139	43	182	13,186	9,575	22,761	529.3
1,000 to 1,999.....	23	144	167	174,793	119,305	294,098	2,042.3	23	138	161	224,784	79,377	304,161	2,206.2
2,000 " 2,999.....	197	358	525	336,376	449,632	836,008	2,335.2	42	477	519	1,139,175	181,667	1,370,843	2,873.9
3,000 " 3,999.....	108	131	239	282,991	177,155	460,146	3,512.6	6	225	231	1,035,239	80,893	1,167,137	5,187.3
4,000 " 4,999.....	52	156	218	247,201	237,543	434,849	2,920.8	20	201	221	803,531	112,005	915,536	4,554.9
5,000 " 5,999.....	32	101	133	378,920	157,513	536,333	5,310.2	12	122	134	950,443	109,850	770,293	6,313.9
6,000 " 6,999.....	48	179	227	574,235	107,301	531,537	3,307.5	2	229	231	1,236,329	155,751	1,392,580	6,031.1
7,000 " 7,999.....	44	101	145	410,317	135,910	596,227	5,903.2	12	135	148	1,014,800	123,335	1,138,185	6,369.0
8,000 " 8,999.....	36	102	138	652,951	149,073	802,034	7,863.1	23	117	140	919,085	115,344	1,034,429	8,341.3
9,000 " 9,999.....	20	68	88	325,239	169,493	495,732	7,290.2	1	91	92	728,735	111,559	840,344	9,234.5
10,000 " 10,999.....	19	96	115	1,250,999	22,197	1,273,196	13,262.5	44	73	117	993,045	5,910	998,855	13,582.9
11,000 " 11,999.....	17	58	75	965,661	7,373	973,034	16,776.4	17	58	75	856,922	—	856,922	14,772.8
12,000 " 12,999.....	26	36	62	525,243	10,338	536,581	14,905.0	4	53	57	389,282	—	389,282	15,332.4
13,000 " 13,999.....	19	18	37	363,514	—	363,514	20,195.2	—	36	36	571,967	—	571,967	18,665.8
14,000 " 14,999.....	7	—	7	—	—	—	—	—	7	7	108,337	—	108,337	15,470.7
15,000 " 15,999.....	8	15	23	349,381	—	349,381	23,292.1	1	23	24	503,947	—	503,947	21,910.7
16,000 " 16,999.....	9	7	16	177,655	—	177,655	25,379.4	—	16	16	352,370	—	352,370	22,023.1
17,000 and over.....	56	113	179	2,976,635	—	2,976,635	25,341.9	32	147	179	3,630,442	—	3,630,442	24,693.9
Totals	821	1,750	2,571	10,067,643	1,797,598	11,865,241	6,780.1	378	2,197	2,575	15,883,070	1,085,521	16,968,591	7,723.5
Barge or scow:														
Under 1,000 gross tons	20	—	20	—	—	—	—	16	—	16	—	—	—	—
1,000 to 1,999.....	1	—	1	—	—	—	—	1	—	1	—	—	—	—
3,000 " 3,999.....	—	—	—	—	—	—	—	1	—	1	—	—	—	—
Totals	21	—	21	—	—	—	—	18	—	18	—	—	—	—
Trig and scow:														
Under 1,000 gross tons	33	4	42	341	—	341	85.3	72	2	74	120	—	120	60.0
1,000 to 1,999.....	6	2	8	2,502	—	2,502	1,251.0	6	6	12	7,600	—	7,600	1,266.7
Totals	44	6	50	2,843	—	2,843	473.8	78	8	86	7,720	—	7,720	965.0
Tanker:														
Under 1,000 gross tons	—	5	5	2,822	—	2,822	534.4	7	—	7	—	—	—	—
1,000 to 1,999.....	6	96	102	263,486	—	263,486	2,796.7	84	17	101	43,131	—	43,131	2,537.1
2,000 " 2,999.....	2	129	131	427,556	—	427,556	3,314.4	117	12	129	36,499	—	36,499	3,041.6
3,000 " 3,999.....	2	55	57	284,539	—	284,539	5,174.0	53	3	56	12,257	—	12,257	4,089.0
4,000 " 4,999.....	1	53	54	315,544	—	315,544	5,953.7	49	6	55	31,344	—	31,344	5,224.0
5,000 " 5,999.....	7	6	13	15,814	—	15,814	2,635.7	—	13	13	101,767	1	101,768	7,828.3
8,000 " 8,999.....	4	13	17	55,734	—	55,734	4,287.2	1	17	18	171,313	—	171,813	10,106.5
9,000 " 9,999.....	1	11	12	107,495	—	107,495	9,772.4	10	2	12	22,723	—	22,728	11,364.0
10,000 " 10,999.....	1	3	4	32,448	—	32,448	1,031.5	—	3	3	20,527	—	20,527	6,842.3
11,000 " 11,999.....	—	10	10	137,534	—	137,534	13,753.4	9	—	9	—	—	—	—
12,000 " 12,999.....	—	9	9	117,899	709	118,608	13,173.7	7	1	8	14,364	—	14,364	14,364.0
14,000 " 14,999.....	—	—	—	—	—	—	—	—	1	1	17,120	—	17,120	17,120.0
Totals	24	390	414	1,765,902	709	1,766,611	4,529.8	337	75	412	471,560	1	471,561	6,287.5
Other vessels:														
Under 1,000 gross tons	133	—	133	—	—	—	—	103	—	103	—	—	—	—
1,000 to 1,999.....	2	—	2	—	—	—	—	1	—	1	—	—	—	—
2,000 " 2,999.....	6	—	6	—	—	—	—	6	—	6	—	—	—	—
3,000 " 3,999.....	1	—	1	—	—	—	—	1	—	1	—	—	—	—
5,000 " 5,999.....	—	—	—	—	—	—	—	1	—	1	—	—	—	—
6,000 " 6,999.....	1	—	1	—	—	—	—	1	—	1	—	—	—	—
7,000 " 7,999.....	1	—	1	—	—	—	—	—	—	—	—	—	—	—
14,000 " 14,999.....	1	—	1	—	—	—	—	—	—	—	—	—	—	—
Totals	145	—	145	—	—	—	—	113	—	113	—	—	—	—
Grand totals	1,055	2,146	3,201	11,836,388	1,798,307	13,634,695	6,353.5	924	2,280	3,204	16,362,350	1,085,522	17,447,872	7,652.6

¹ Excludes non toll traffic using Lachine and Cornwall canals only.

TABLE 14 A. Commodities Carried Upbound on the St. Lawrence Section of the Seaway by Country of Loading and Unloading¹

No.	Commodity	Canada to		United States to		United Kingdom to	
		Canada	United States	Canada	United States	Canada	United States
		tons					
	Food, feed, beverages and tobacco:						
1	Meat and meat preparations	—	—	—	—	330	620
2	Fish and marine animals	—	—	3	24	128	143
3	Fruits and fruit preparations	179	—	6,990	—	1,178	661
4	Vegetables and vegetable preparations	—	—	85	—	154	—
5	Sugar	2,502	—	—	—	—	—
6	Molasses, crude and refined	—	—	—	—	—	—
7	Sugar preparations (incl. confectionery)	—	—	—	—	3,842	582
8	Cocoa, coffee, tea and spices	—	—	53	—	2,031	134
9	Misc. foods (materials and preparations)	—	—	464	—	914	167
10	Ale, beer and wines	—	—	—	5	629	441
11	Distilled alcoholic beverages	—	5	—	—	3,781	29,951
12	Food, feed, beverages and tobacco, n.e.s.	—	—	27	—	1,546	164
13	Totals	2,681	5	7,622	29	14,533	32,863
	Crude materials, inedible:						
14	Crude animal products, inedible (ex. fibres)	—	—	—	—	13	129
15	Rubber, natural	—	—	—	—	12	—
16	Crude vegetable materials, inedible, n.e.s.	—	—	—	—	6,012	7,712
17	Logs and round timber	8,695	2,600	—	—	—	—
18	Pulpwood	166,608	100,227	—	—	—	—
19	Textile and related fibres (incl. waste)	—	—	—	—	2,955	429
20	Aluminum ore and concentrates	—	—	—	—	—	—
21	Iron ore	127,878	7,937,136	—	—	—	—
22	Metallic ores and concentrates, n.e.s.	—	—	—	—	230	—
23	Coal, bituminous	513,993	—	—	—	—	—
24	Crude petroleum	10,922	—	—	—	—	—
25	Clay and bentonite	—	—	—	—	11,727	19,636
26	Stone, crushed and broken	13,742	—	—	—	—	—
27	Gypsum	51,229	—	—	—	—	—
28	Phosphate rock	—	—	—	—	—	—
29	Sulphur	—	40,341	—	20,776	—	—
30	Non-metallic minerals, crude, n.e.s.	—	8,237	37,246	26,828	1,349	325
31	Crude materials, inedible, n.e.s.	2,000	—	572	—	360	445
32	Totals	895,067	8,090,720	37,818	47,604	22,658	28,676
	Fabricated materials, inedible:						
33	Wood fabricated materials	—	—	—	—	470	199
34	Woodpulp	456	11,083	—	—	—	—
35	Newsprint paper	—	309,764	—	—	—	—
36	Paper and paperboard, n.e.s.	—	—	—	—	358	55
37	Cordage, twine and rope	—	—	271	5,049	304	2,276
38	Fish and animal oils	820	—	—	—	342	560
39	Vegetable oils and fats, n.e.s.	—	—	—	—	4,238	595
40	Chemicals	3,205	—	748	—	9,467	8,072
41	Fertilizers	—	2,968	9,592	—	—	—
42	Chemical products, n.e.s.	98,618	5	7	—	8,348	3,839
43	Gasoline	17,500	—	—	—	—	—
44	Fuel oil	1,086,302	70,122	—	—	—	—
45	Lubricating oils and greases	17,290	—	—	46,218	18	14
46	Ferro-alloys	—	2,464	—	—	31	17
47	Pig iron	—	101,016	—	—	—	—
48	Iron and steel: ingot, bar, rod, etc.	—	9,008	—	—	7,037	39,450
49	Steel: plate, sheet and strip	—	—	—	5,207	8,861	1,986
50	Structural shapes and sheet piling	221	—	—	—	7,679	18,668
51	Iron and steel: pipes, tubes and fittings	—	—	—	—	5,479	17,771
52	Iron and steel: wire and wire rope	—	—	—	11,115	2,532	12,205
53	Iron and steel, n.e.s.	—	—	—	—	1,512	437
54	Aluminum: bar, ingot, pig and slab	7,137	6,723	—	—	456	89
55	Non-ferrous metals and alloys, n.e.s.	—	—	—	—	2,328	3,322
56	Metal fabricated basic products, n.e.s.	—	—	—	—	2,925	2,205
57	Glass: plate, sheet and structural	—	—	—	—	1,517	6,508
58	Cement	180	—	—	—	944	—
59	Miscellaneous fabricated materials, n.e.s.	—	—	5	4,718	9,812	2,055
60	Totals	1,231,729	513,153	10,623	72,307	74,658	120,303
	End products, inedible:						
61	Machinery, equipment and parts	49	—	8	171	16,250	11,035
62	Motor vehicles and parts	—	3	48	—	2,716	6,552
63	End products, inedible, n.e.s.	—	—	—	—	2,753	4,422
64	Totals	49	3	56	171	21,719	22,009
65	Miscellaneous freight, n.e.s.	56,341	612	—	—	16,434	3,539
66	Domestic package freight	164,957	—	—	—	—	—
67	In transit freight .....	..	..	..	..	..	..
68	Grand totals — Upbound	2,350,824	8,604,493	56,119	120,111	150,002	207,390

¹ Excludes non toll traffic using Lachine and Cornwall canals only.

TABLE 14 A. Commodities Carried Upbound on the St. Lawrence Section of the Seaway by Country of Loading and Unloading¹

Other British Commonwealth to		Other Europe to		Other countries to		Total to		Grand total	No.
Canada	United States	Canada	United States	Canada	United States	Canada	United States		
tons									
697	518	685	1,295	7	135	1,719	2,568	4,287	1
26	—	1,525	5,874	1,245	2,649	2,927	8,690	11,617	2
3,438	3,588	17,111	12,115	4,867	6,068	33,763	22,432	56,195	3
—	—	6,223	1,462	301	1,289	6,763	2,751	9,514	4
88,804	6,063	—	11,318	19,778	—	111,084	17,381	128,465	5
37,385	28,771	—	—	7,341	20,950	44,706	49,721	94,427	6
60	—	2,225	930	173	548	6,300	2,060	8,360	7
579	186	1,362	711	2,032	5,716	6,057	6,747	12,804	8
251	530	1,400	1,396	220	1,323	3,249	3,416	6,665	9
—	—	5,164	31,495	83	90	5,876	32,031	37,907	10
18	—	756	1,977	—	3	4,555	31,936	36,491	11
234	98	4,091	1,821	1,772	4,596	7,670	6,679	14,349	12
131,472	39,754	40,542	70,394	37,819	43,367	234,669	186,412	421,081	13
—	133	710	5,303	—	—	723	5,565	6,288	14
8,490	43,245	—	—	1,955	7,865	10,457	51,110	61,567	15
705	316	2,237	7,127	1,844	1,994	10,798	19,328	30,126	16
—	—	60	3	8	—	8,763	2,603	11,366	17
—	—	—	—	—	—	166,608	100,227	266,835	18
293	371	1,064	221	4,651	395	8,963	1,416	10,379	19
29,405	—	—	10,068	16,888	30,833	46,293	40,901	87,194	20
—	—	—	11,574	3,373	—	131,251	7,948,710	8,079,961	21
—	25,711	39	1,452	—	4,480	269	31,643	31,912	22
—	—	—	—	196	—	514,189	—	514,189	23
—	—	—	606	140,101	—	151,023	606	151,629	24
—	—	13	—	—	—	11,740	19,636	31,376	25
—	—	4,343	4,315	122	78	18,207	4,391	22,598	26
—	—	—	—	—	—	51,229	—	51,229	27
—	—	—	—	22,818	—	22,818	—	22,818	28
—	—	—	—	—	20,208	—	81,325	81,325	29
7,001	2,273	1,514	34,823	10,068	239	57,178	72,725	129,903	30
141	3,233	275	1,147	1,341	50	4,689	4,875	9,564	31
46,035	75,282	10,255	76,639	203,365	66,140	1,215,198	8,385,061	9,600,259	32
—	—	—	—	—	—	—	—	—	—
391	436	1,465	7,412	4,651	11,059	6,877	19,086	25,963	33
1,811	—	336	37,475	—	—	2,603	48,558	51,161	34
—	—	—	—	—	—	—	309,764	309,764	35
—	—	3,672	12,059	3	339	4,033	12,453	16,486	36
53	—	2,606	11,445	780	16	4,014	18,786	22,800	37
—	—	4,189	10,530	—	2,212	5,351	13,302	18,653	38
3,260	—	2,228	3,563	7,049	1,427	16,775	5,584	22,359	39
—	—	7,120	7,981	605	485	21,145	16,538	37,683	40
—	14	4,909	530	—	—	14,501	3,512	18,013	41
—	—	9,444	4,960	2,318	479	118,735	9,283	128,018	42
—	—	6,870	—	—	—	24,370	—	24,370	43
—	—	—	—	109,444	14,014	1,195,746	84,136	1,279,882	44
—	—	—	—	—	—	17,308	46,232	63,540	45
—	—	241	48,595	—	—	272	51,076	51,348	46
—	—	4,216	24,130	—	—	4,216	125,146	129,362	47
2,052	—	19,368	66,240	29	32,707	28,486	147,405	175,691	48
224	—	11,353	40,697	274	7,166	20,712	55,177	75,889	49
2,126	4,626	48,328	216,750	—	1,170	58,354	241,214	299,568	50
—	—	5,221	11,295	3,555	3,224	14,255	32,290	46,545	51
—	—	6,970	89,263	464	28,981	9,966	141,564	151,530	52
—	—	713	2,780	83	968	2,308	4,185	6,493	53
—	—	470	15,749	24	180	8,087	22,741	30,828	54
735	4,181	984	7,837	845	3,999	4,892	19,339	24,231	55
50	118	4,378	14,817	2,397	27,697	9,750	44,837	54,587	56
—	—	7,346	27,699	101	535	8,964	34,742	43,706	57
—	—	1,813	228	—	8	2,937	234	3,171	58
37	42	3,861	6,084	2,441	4,636	16,156	17,535	33,691	59
10,639	9,538	158,101	668,117	135,063	141,301	1,620,813	1,524,719	3,145,532	60
—	—	—	—	—	—	—	—	—	—
51	13	10,384	8,737	432	307	27,174	20,263	47,437	61
27	9	12,681	34,891	66	346	15,538	41,801	57,339	62
79	5	2,053	4,308	1,123	866	6,008	9,601	15,609	63
157	27	25,118	47,936	1,621	1,519	48,720	71,665	120,385	64
—	—	—	—	—	—	—	—	—	—
606	619	11,864	11,013	2,998	2,787	88,243	18,570	106,813	65
—	—	—	—	—	—	164,957	—	164,957	66
..	..	..	..	..	..	..	..	75,668	67
188,909	125,220	243,880	874,099	380,866	255,114	3,372,600	10,186,427	13,634,695	88

TABLE 14 B. Commodities Carried Downbound on the St. Lawrence Section of the Seaway by Country of Loading and Unloading¹

No.	Commodity	Canada to						Total
		Canada	United States	United Kingdom	Other British Commonwealth	Other Europe	Other countries	
		tons						
	Food, feed, beverages and tobacco:							
1	Meat and meat preparations	—	—	973	1,244	592	55	2,864
2	Butter	—	—	—	5	9	—	14
3	Milk powder	—	—	—	36	—	16	52
4	Barley	475,035	—	68,255	—	9,720	—	553,010
5	Corn	5,860	—	336	—	131	—	6,347
6	Oats	316,990	—	12,336	1	115,384	308	445,019
7	Rye	43,295	—	1,764	—	32,381	—	77,440
8	Wheat	5,589,714	4,771	108,543	8,439	113,728	48,749	5,873,944
9	Cereals, unmilled, n.e.s.	956	—	—	—	—	—	956
10	Corn meal	—	—	—	—	—	—	—
11	Malt	49,435	—	101	137	—	345	50,018
12	Wheat flour	22,888	—	56,310	394	—	9,941	69,533
13	Grain, flour, meal and cereals, n.e.s.	—	—	—	—	—	137	137
14	Beans and peas, dried	22,417	—	19,345	457	1,065	—	43,284
15	Margarine, shortening and lard	—	—	15	—	2	—	17
16	Soyabean oil cake and meal	—	—	163,863	—	—	—	163,863
17	Fodder and feed, n.e.s.	21,154	—	32,256	40	360	197	54,007
18	Food, beverages and tobacco, n.e.s.	5,205	—	24,067	3,050	4,301	945	37,568
19	Totals	6,552,969	4,771	488,164	13,803	277,673	60,693	7,398,073
	Crude materials, inedible:							
20	Raw hides and skins	—	—	203	11	10,901	2,479	13,594
21	Seeds for sowing	—	—	855	—	779	11	1,645
22	Flaxseed	132,311	—	21,313	—	27,069	2,264	182,957
23	Soyabeans	26,222	—	4,196	—	—	—	30,418
24	Logs and round timber	—	—	1,179	—	753	—	1,932
25	Iron ore	—	—	—	—	—	—	—
26	Metallic ores and concentrates, n.e.s.	—	—	165	—	7	83	255
27	Iron and steel scrap	—	—	—	283	—	129,519	129,802
28	Non-ferrous metal scrap	—	—	31	234	2,889	3,957	7,111
29	Slags, drosses and other by-products	15,596	—	122	—	1,598	—	17,316
30	Coal, bituminous	603	—	—	—	—	—	603
31	Natural asphalt (gilsonite)	—	—	245	58	—	—	303
32	Clay and bentonite	4,977	—	70	—	893	—	5,940
33	Salt	152,090	—	—	—	—	—	152,090
34	Non-metallic minerals, crude, n.e.s.	—	—	151	16	105	15	287
35	Waste and scrap materials, n.e.s.	—	—	311	70	2,560	446	3,387
36	Crude materials, inedible, n.e.s.	—	—	40	53	1,276	11	1,380
37	Totals	331,799	—	28,881	725	48,830	138,785	549,020
	Fabricated materials, inedible:							
38	Paper and paperboard	—	3,013	11,013	2,698	334	91	17,149
39	Fish and animal oils	—	—	5,252	—	641	—	5,893
40	Soyabean oil	—	—	9,223	—	—	—	9,223
41	Oils, fats, waxes, n.e.s.	—	—	890	396	24	—	1,310
42	Chemicals	10,739	—	11,735	1,644	8,090	102	32,310
43	Rubber, synthetic and reclaimed	—	—	4,294	2,798	22,853	1,543	31,488
44	Chemical products, n.e.s.	17,199	—	15,064	5,175	14,315	3,190	54,943
45	Gasoline	16,601	—	—	—	—	—	16,601
46	Fuel oil	8,066	—	—	—	—	—	8,066
47	Lubricating oils and greases	2,859	—	70	—	122	—	3,051
48	Coke	2,000	—	717	—	—	—	2,717
49	Tar, pitch and creosote	14,716	—	—	—	—	—	14,716
50	Petroleum and coal products, n.e.s.	22,280	—	546	37	18	32	22,913
51	Pig iron	—	—	—	—	—	—	—
52	Iron and steel: ingot, billet, rod, etc.	—	1,052	1,827	430	1,530	1,871	6,710
53	Steel: plate, sheet and strip	2,930	102	16,878	4,037	18,457	15,370	57,774
54	Structural shapes and sheet piling	491	—	318	13	12,934	—	13,756
55	Iron and steel: wire and wire rope	—	—	1,101	89	31,468	86	32,744
56	Iron and steel, n.e.s.	3,286	—	264	122	49	549	4,270
57	Non-ferrous metals and alloys	—	—	1,379	648	4,108	820	6,955
58	Metal fabricated basic products, n.e.s.	—	—	499	766	977	436	2,678
59	Miscellaneous fabricated materials, n.e.s.	—	—	5,263	669	7,033	569	13,534
60	Totals	101,167	4,167	86,333	19,522	122,953	24,659	356,801
	End products, inedible:							
61	Machinery, equipment and parts	480	—	1,391	994	1,803	287	4,955
62	Motor vehicles	—	11	136	43	818	161	1,169
63	Motor vehicle parts	—	—	412	169	741	94	1,416
64	End products, inedible, n.e.s.	—	—	2,859	864	3,036	528	7,287
65	Totals	480	11	4,798	2,070	6,398	1,070	14,827
66	Miscellaneous freight, n.e.s.	1,339	—	1,979	1,062	1,666	288	6,334
67	Domestic package freight	340,508	—	—	—	—	—	340,508
68	In transit freight .....	..	..	..	..	..	..	..
69	Grand totals - Downbound	7,328,262	8,949	610,155	37,182	457,520	225,495	8,667,563

¹ Excludes non toll traffic using Lachine and Cornwall canals only.

TABLE 14 B. Commodities Carried Downbound on the St. Lawrence Section of the Seaway by Country of Loading and Unloading¹

Canada	United States to						Grand total	No.
	United States	United Kingdom	Other British Commonwealth	Other Europe	Other countries	Total		
				tons				
—	—	5,052	2,607	23,730	410	31,799	34,663	1
—	—	—	2,477	10,693	22,514	35,664	35,698	2
—	—	26	37,703	58,045	96,113	191,887	191,939	3
261,883	—	1,920	—	281,984	—	545,787	1,098,797	4
1,803,313	—	396,986	—	464,577	—	2,664,876	2,671,223	5
12,670	—	—	10,685	71,904	424	95,683	540,702	6
151,368	—	—	96,480	—	—	247,848	325,288	7
941,647	—	40,927	—	310,515	87,227	1,380,316	7,254,260	8
1,197	—	—	—	9,117	401	10,715	11,671	9
—	—	5	14,767	2,393	58,164	75,329	75,329	10
—	—	—	379	—	2,946	3,325	53,343	11
—	—	1	13,317	46,587	84,388	144,217	233,806	12
—	—	64	73	1,093	12,304	13,534	13,671	13
37,979	—	57,243	2,376	39,421	10,088	147,107	190,391	14
—	—	70,189	—	6,392	—	76,581	76,581	15
11,223	—	—	—	88,934	—	100,157	264,020	16
3,916	—	—	238	237,693	1,690	244,609	298,616	17
—	—	3,733	1,361	15,890	16,117	37,101	74,669	18
3,225,196	—	577,218	182,463	1,668,948	392,786	6,046,611	13,444,684	19
—	—	941	—	38,170	4,321	43,432	57,026	20
—	—	87	—	1,558	205	1,850	3,495	21
23,818	—	—	—	60,221	—	84,039	266,996	22
415,174	—	21,437	—	144,691	48,652	630,154	660,572	23
—	—	224	—	9,116	—	9,340	11,272	24
75,213	—	—	—	—	—	75,213	75,213	25
—	—	226	—	52	289	567	822	26
—	—	—	—	46,227	176,039	222,266	352,068	27
—	—	536	262	8,702	6,736	16,236	23,347	28
—	—	403	—	191	—	594	17,910	29
453,830	—	—	—	—	—	453,830	454,433	30
—	—	2,828	15	4,550	—	7,393	7,696	31
83,409	—	8,974	80	6,808	283	99,554	105,494	32
65,090	—	—	—	7	—	65,097	217,187	33
—	—	2,161	1,836	3,634	180	7,811	8,098	34
—	—	105	277	8,419	1,275	10,076	13,463	35
—	—	612	505	3,571	626	5,314	6,894	36
1,116,534	—	38,534	2,975	335,917	238,806	1,732,766	2,281,786	37
—	—	—	—	—	—	—	—	—
28	—	441	208	774	287	1,738	18,867	38
—	—	4,290	427	135,004	20,426	160,147	166,040	39
—	—	—	1,741	2,330	132	4,203	13,426	40
—	—	1,626	21	14,504	2,138	18,289	19,599	41
14,107	—	4,328	2,734	19,920	11,431	52,520	84,830	42
—	—	735	135	1,337	216	2,423	33,911	43
—	—	5,396	9,412	32,448	4,134	51,390	106,333	44
—	—	—	—	—	—	—	16,601	45
—	54,342	—	—	235	—	54,577	62,643	46
—	—	414	13	5,766	666	6,859	9,910	47
220,147	—	263	—	4,758	—	225,168	227,885	48
26,020	—	—	—	300	—	26,320	41,036	49
—	7,539	587	—	6,541	239	14,906	37,819	50
—	—	—	1,850	—	—	1,850	1,850	51
—	—	627	2,346	364	600	3,937	10,647	52
—	—	1,503	50,943	6,225	22,624	81,295	139,069	53
—	—	6	456	144	9	615	14,371	54
—	—	55	2,232	259	19	2,565	35,309	55
—	—	231	1,013	1,042	159	2,445	6,715	56
—	—	3,689	37	5,824	405	9,955	16,910	57
—	—	563	1,508	4,084	204	6,359	9,037	58
47	—	3,591	205	5,234	464	9,541	23,075	59
260,349	61,681	28,345	75,281	247,093	64,153	737,102	1,095,903	60
—	—	6,899	8,281	52,051	11,303	78,534	83,489	61
378	—	120	18,458	14,482	16,891	50,329	51,498	62
—	—	1,743	3,216	16,136	3,549	24,644	26,060	63
27	8	1,959	533	5,900	3,509	11,936	19,223	64
405	8	10,721	30,488	88,569	35,252	165,443	180,270	65
42	—	3,971	141	40,008	798	44,960	51,294	66
—	—	—	—	—	—	—	340,508	67
..	..	..	..	..	..	..	53,427	68
4,602,528	61,889	658,789	291,348	2,380,535	731,795	8,726,882	17,447,872	69

WELLAND CANAL

TABLE 15. Location and Description

	From	To	Length of channel miles	Number	Locks		
					Minimum dimensions		
					Length	Width	Depth
Welland canal	Port Weller	Port Colborne, Ont.	27.6	8	766 ¹	80	30

¹ Breastwall to fender.

TABLE 16. Historical Summary, 1954 - 63

Registry of vessel	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Vessel transits										
Upbound:										
Canada	3,140	3,260	3,366	3,195	3,007	2,604	2,446	2,356	2,114	2,192
United States	900	1,094	985	991	852	789	664	508	639	574
United Kingdom ¹ .....	..	31	41	44	57	226	261	440	477	454
Other foreign	262	312	324	372	489	727	765	800	805	735
Totals	4,302	4,697	4,716	4,602	4,405	4,346	4,136	4,104	4,035	3,955
Downbound:										
Canada	3,080	3,245	3,298	3,191	2,978	2,554	2,362	2,296	2,048	2,180
United States	836	1,053	985	953	815	778	631	543	651	539
United Kingdom ¹ .....	..	33	40	42	53	242	269	443	473	440
Other foreign	261	306	321	366	485	729	771	819	829	756
Totals	4,177	4,637	4,644	4,552	4,331	4,303	4,033	4,101	4,001	3,915
Grand totals	8,479	9,334	9,360	9,154	8,736	8,649	8,169	8,205	8,036	7,870
Registered net tons										
Upbound:										
Canada	6,837,003	7,750,515	8,415,509	7,869,319	7,749,945	7,440,456	7,985,140	9,016,598	8,869,606	10,793,493
United States	1,393,178	1,539,429	1,439,363	1,530,133	1,255,100	1,363,458	1,081,348	773,615	1,302,764	1,660,545
United Kingdom ¹ .....	..	21,080	28,840	29,235	36,774	724,092	916,379	1,763,584	1,961,284	2,082,066
Other foreign	217,187	259,013	275,406	314,429	411,234	1,574,929	2,014,373	2,287,643	2,540,868	2,311,179
Totals	8,447,368	9,570,037	10,159,118	9,743,116	9,453,053	11,102,935	11,997,240	13,841,440	14,674,522	16,347,283
Downbound:										
Canada	6,733,184	7,719,372	8,288,581	7,869,268	7,585,201	7,266,006	7,853,010	8,818,938	8,701,833	10,703,814
United States	1,349,538	1,495,689	1,460,322	1,523,621	1,251,542	1,409,253	1,078,993	821,354	1,271,856	1,147,719
United Kingdom ¹ .....	..	22,968	28,067	28,166	34,047	755,799	926,891	1,702,171	1,920,027	1,994,464
Other foreign	217,603	251,551	270,682	307,547	403,892	1,582,943	2,051,355	2,375,972	2,614,527	2,431,798
Totals	8,300,325	9,489,580	10,047,652	9,728,602	9,274,682	11,014,001	11,910,249	13,718,435	14,508,243	16,277,795
Grand totals	16,747,693	19,059,617	20,206,770	19,471,718	18,727,735	22,116,936	23,907,489	27,559,875	29,182,765	32,625,078
Cargo tons										
Upbound:										
Canada .....	..	3,285,976	4,183,451	4,403,553	4,179,508	7,073,632	5,776,293	5,098,397	7,075,866	8,292,042
United States .....	..	687,670	566,891	465,645	433,776	894,109	855,226	539,217	1,079,748	1,640,628
United Kingdom ¹ .....	..	25,573	32,756	16,832	34,970	562,631	791,772	1,126,378	1,437,571	1,628,626
Other foreign .....	..	260,773	286,214	254,642	357,333	1,066,194	976,432	880,660	1,323,185	1,617,205
Totals	2,395,791	4,259,992	5,069,312	5,140,672	5,005,587	9,596,566	8,399,723	7,644,652	10,916,370	13,178,501
Downbound:										
Canada .....	..	14,100,847	15,373,069	14,258,609	13,666,961	12,313,690	14,191,374	15,936,884	15,511,826	19,634,956
United States .....	..	2,201,827	2,294,298	2,605,432	2,124,193	1,835,374	1,338,914	1,261,462	1,767,181	1,462,156
United Kingdom ¹ .....	..	16,503	32,028	35,615	43,477	1,119,736	1,610,708	2,579,610	3,099,075	3,338,079
Other foreign .....	..	314,403	297,554	332,210	433,976	2,640,658	3,740,018	3,981,762	4,216,157	3,711,837
Totals	15,118,467	16,633,580	17,996,949	17,231,866	16,268,607	17,909,458	20,881,014	23,759,718	24,594,239	28,147,028
Grand totals	17,514,258	20,893,572	23,066,261	22,372,538	21,274,194	27,506,024	29,280,737	31,404,370	35,510,609	41,325,529
Season of navigation										
First vessel passage	March 25	March 30	March 31	March 30	April 1	April 6	April 1	April 1	April 1	April 1
Last vessel passage	Dec. 17	Dec. 17	Dec. 20	Dec. 18	Dec. 18	Dec. 15	Dec. 15	Dec. 15	Dec. 17	Dec. 19

¹ Includes other British Commonwealth.

TABLE 17. Traffic on the Welland Section of the Seaway by Kind of Vessel

Kind of vessel	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
Upbound:							
Cargo	1,393	1,483	2,876	14,697,182	21,371,583	11,568,596	39
Passenger-cargo	8	72	80	207,119	374,281	114,085	602
Cargo-passenger	19	199	218	517,877	911,326	464,702	154
Scow, barge, etc.	27	12	39	30,643	30,793	23,965	—
Tug and scow	96	184	280	167,779	188,239	217,159	—
Tanker	127	190	317	670,335	1,078,293	789,994	—
Tug or dredge	92	—	92	9,502	14,948	—	—
Naval or Government	48	—	48	36,514	44,115	—	—
All other types	5	—	5	10,333	18,472	—	—
Totals	1,815	2,140	3,955	16,347,283	24,032,050	13,178,501	795
Downbound:							
Cargo	234	2,648	2,882	14,693,725	21,430,212	26,174,099	32
Passenger-cargo	4	42	46	142,484	254,112	149,918	634
Cargo-passenger	4	219	223	531,718	933,647	755,754	172
Scow, barge, etc.	23	11	34	26,620	26,818	22,044	—
Tug and scow	66	198	264	153,572	173,175	234,225	—
Tanker	134	188	322	687,994	1,103,348	810,988	—
Tug or dredge	84	—	84	10,674	18,224	—	—
Naval or Government	52	—	52	30,037	38,389	—	—
All other types	8	—	8	971	4,478	—	—
Totals	609	3,306	3,915	16,277,795	23,982,403	28,147,028	838
Grand totals	2,424	5,446	7,870	32,625,078	48,014,453	41,325,529	1,633

TABLE 18. Traffic on the Welland Section of the Seaway by Country of Registry of Vessel

Country of registry	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
Upbound:							
Canada	1,213	979	2,192	10,793,493	15,131,625	8,292,042	—
United States	256	318	574	1,160,545	1,644,077	1,640,628	517
United Kingdom	63	139	202	790,062	1,327,081	588,430	5
Other British Commonwealth	135	117	252	1,292,004	1,921,292	1,040,196	—
Belgium	4	—	4	52,978	58,864	—	6
Denmark	—	13	13	13,816	26,185	11,574	—
Finland	—	9	9	2,504	4,491	1,922	—
France	14	21	35	148,666	268,140	39,568	—
Germany	18	184	202	471,064	797,679	384,519	130
Greece	14	10	24	112,238	183,990	47,173	—
Italy	5	10	15	55,140	96,594	30,815	—
Netherlands	7	58	65	164,084	290,725	128,502	61
Norway	42	157	199	652,808	1,172,607	430,785	53
Sweden	18	51	69	193,172	361,408	75,438	9
Other Europe	9	14	23	92,239	152,802	23,533	13
Panama	2	2	4	11,991	20,399	14,912	—
Middle East	4	9	13	35,388	61,739	8,987	1
Other Asia	2	21	23	122,011	208,041	98,605	—
Liberia	9	28	37	183,082	304,311	320,874	—
Totals	1,815	2,140	3,955	16,347,283	24,032,050	13,178,501	795
Downbound:							
Canada	367	1,813	2,180	10,703,814	15,016,685	19,634,956	—
United States	149	390	539	1,147,719	1,636,979	1,462,156	572
United Kingdom	18	197	215	831,034	1,390,539	1,344,506	13
Other British Commonwealth	28	197	225	1,163,430	1,733,297	1,993,573	—
Belgium	—	4	4	52,977	58,864	65,547	2
Denmark	9	5	14	18,104	33,953	13,158	—
Finland	—	9	9	2,507	4,491	7,127	—
France	2	34	36	150,352	271,773	278,531	—
Germany	8	195	203	490,218	824,538	688,448	68
Greece	1	26	27	136,835	218,253	241,540	—
Italy	—	16	16	61,431	106,654	117,649	—
Netherlands	—	70	70	180,501	321,142	282,322	57
Norway	5	195	200	662,034	1,186,688	1,157,016	77
Sweden	—	71	71	206,465	385,174	320,867	12
Other Europe	—	23	23	91,958	152,792	184,309	21
Panama	1	3	4	11,991	20,399	24,826	—
Middle East	—	14	14	38,173	68,752	62,522	16
Other Asia	—	26	26	136,526	233,382	103,591	—
Liberia	21	18	39	191,726	322,048	164,384	—
Totals	609	3,306	3,915	16,277,795	23,982,403	28,147,028	838
Grand totals	2,424	5,446	7,870	32,625,078	48,014,453	41,325,529	1,633

TABLE 19. Traffic on the Welland Section of the Seaway by Length of Vessel

Length of vessel	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
Upbound:							
Under 80 feet	66	1	67	10,383	14,540	14,345	—
80 to 119 feet	64	2	66	12,166	15,218	1,000	—
120 " 159 "	25	33	58	14,934	23,322	20,408	—
160 " 199 "	18	25	43	16,511	28,175	24,779	—
200 " 239 "	93	210	303	195,806	226,148	254,781	—
240 " 279 "	256	347	603	832,340	1,273,154	866,471	1
280 " 319 "	49	140	189	270,522	423,923	318,477	5
320 " 359 "	74	152	226	510,066	767,707	474,425	522
360 " 399 "	42	200	242	536,352	904,510	493,302	92
400 " 439 "	186	137	323	996,983	1,556,990	439,462	46
440 " 479 "	181	220	401	1,493,887	2,456,079	627,396	89
480 " 519 "	150	191	341	1,659,635	2,689,829	1,098,346	32
520 " 559 "	145	139	284	1,558,918	2,344,996	1,413,289	2
560 " 599 "	39	26	65	390,324	552,856	330,882	—
600 " 639 "	77	95	172	1,324,932	1,881,847	1,532,718	6
640 " 679 "	86	79	165	1,436,504	2,003,427	1,634,437	—
680 " 759 "	264	143	407	5,087,020	6,869,329	3,633,963	—
Totals	1,815	2,140	3,955	16,347,283	24,032,050	13,178,501	795
Downbound:							
Under 80 feet	75	2	77	11,444	16,210	8,253	—
80 to 119 feet	56	8	64	12,396	14,917	5,194	—
120 " 159 "	48	19	65	16,553	25,237	8,947	—
160 " 199 "	38	3	41	14,146	26,061	2,535	—
200 " 239 "	58	208	266	163,731	188,530	261,754	—
240 " 279 "	92	513	605	830,888	1,274,239	1,419,629	1
280 " 319 "	18	172	190	274,394	430,873	495,585	5
320 " 359 "	47	180	227	511,317	773,597	774,446	574
360 " 399 "	27	209	236	525,218	888,053	702,665	76
400 " 439 "	10	316	326	1,009,856	1,580,816	1,764,289	50
440 " 479 "	15	388	403	1,512,868	2,488,863	2,334,058	93
480 " 519 "	16	319	335	1,656,846	2,686,662	2,694,996	27
520 " 559 "	50	217	267	1,475,881	2,220,792	2,321,919	7
560 " 599 "	4	59	63	375,370	529,492	701,919	3
600 " 639 "	11	169	180	1,375,386	1,962,385	2,591,856	2
640 " 679 "	30	133	163	1,426,078	1,989,644	2,503,347	—
680 " 759 "	16	391	407	5,085,423	6,886,032	9,555,636	—
Totals	609	3,306	3,915	16,277,795	23,982,403	28,147,028	838
Grand totals	2,424	5,446	7,870	32,625,078	48,014,453	41,325,529	1,633

TABLE 20 A. Number and Tonnage of Vessels Upbound on the Welland Section of the Seaway by Origin and Destination

Port of origin and country of registry	Destined to						Total		
	Canada			United States			Number of vessels	Registered net tons	Gross tons
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons			
Originating at ports on Lake Ontario:									
Registry:									
Canada	551	1,611,730	2,350,352	576	3,686,412	5,085,461	1,127	5,298,142	7,435,813
United States	2	369	417	206	328,414	434,575	208	328,783	434,992
United Kingdom	7	27,247	39,895	18	74,814	112,473	25	102,061	152,368
Other British Commonwealth	38	169,828	250,627	142	739,330	1,102,624	180	909,158	1,353,251
France	—	—	—	2	9,098	17,798	2	9,098	17,798
Germany	2	4,264	7,879	5	10,294	18,303	7	14,558	26,182
Greece	1	4,449	7,159	1	5,291	8,952	2	9,740	16,111
Norway	2	2,604	5,380	6	31,292	56,676	8	33,896	62,056
Panama	1	1,098	1,931	—	—	—	1	1,098	1,931
Middle East	—	—	—	1	5,322	8,189	1	5,322	8,189
Totals	604	1,821,589	2,663,640	957	4,890,267	6,845,051	1,561	6,711,856	9,508,691
Originating at ports on the St. Lawrence river:									
Registry:									
Canada	393	1,832,500	2,610,234	665	3,625,250	5,025,090	1,058	5,457,750	7,635,324
United States	—	—	—	73	469,949	687,819	73	469,949	687,819
United Kingdom	12	53,757	86,725	30	162,326	246,847	42	216,083	333,572
Other British Commonwealth	14	75,194	106,958	51	269,438	398,512	65	344,632	505,470
Belgium	—	—	—	1	13,244	14,716	1	13,244	14,716
France	—	—	—	1	2,794	3,121	1	2,794	3,121
Germany	—	—	—	1	1,605	2,588	1	1,605	2,588
Greece	—	—	—	1	1,474	2,724	1	1,474	2,724
Italy	—	—	—	2	8,302	13,863	2	8,302	13,863
Norway	—	—	—	6	24,093	41,476	6	24,093	41,476
Other Europe	2	6,702	11,172	—	—	—	2	6,702	11,172
Liberia	—	—	—	21	97,594	171,164	21	97,594	171,164
Totals	421	1,968,153	2,815,089	852	4,676,069	6,607,920	1,273	6,644,222	9,423,009

TABLE 20 A. Number and Tonnage of Vessels Upbound on the Welland Section of the Seaway by Origin and Destination — Concluded

Part of origin and country of registry	Destined to						Total		
	Canada			United States			Number of vessels	Registered net tons	Gross tons
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons			
Originating at ports outside the Gulf of St. Lawrence:									
Registry:									
Canada	4	25,051	41,479	3	12,550	19,009	7	37,601	60,488
United States	1	1,161	1,161	292	360,652	520,105	293	361,813	521,266
United Kingdom	22	72,281	128,607	113	399,637	712,534	135	471,918	841,141
Other British Commonwealth	1	4,214	7,151	6	34,000	55,420	7	38,214	62,571
Belgium	—	—	—	3	39,732	44,148	3	39,732	44,148
Denmark	9	3,239	6,704	4	10,577	19,481	13	13,816	26,185
Finland	—	—	—	9	2,504	4,491	9	2,504	4,491
France	4	16,314	31,253	28	120,460	215,968	32	136,774	247,221
Germany	6	11,153	20,513	188	443,748	748,395	194	454,901	768,909
Greece	2	9,871	16,317	19	91,153	148,838	21	101,024	165,155
Italy	1	3,205	5,851	12	43,633	76,880	13	46,838	82,731
Netherlands	1	3,175	5,884	64	160,909	284,841	65	164,084	290,725
Norway	8	34,648	64,290	177	580,171	1,004,785	185	594,819	1,069,075
Sweden	1	6,441	11,481	68	186,731	349,927	69	193,172	361,408
Other Europe	3	17,752	26,424	18	67,785	115,206	21	85,537	141,630
Panama	—	—	—	3	10,893	18,468	3	10,893	18,468
Middle East	—	—	—	12	30,066	53,550	12	30,066	53,550
Other Asia	—	—	—	23	122,011	208,041	23	122,011	208,041
Liberia	2	13,352	22,129	14	72,136	111,018	16	85,488	133,147
Totals	65	221,857	389,244	1,056	2,769,348	4,711,106	1,121	2,991,205	5,100,350
Grand totals — Upbound	1,090	4,011,599	5,867,973	2,865	12,335,684	18,164,077	3,955	16,347,283	24,032,050

TABLE 20 B. Number and Tonnage of Vessels Downbound on the Welland Section of the Seaway by Origin and Destination

Part of destination and country of registry	Originating in						Total		
	Canada			United States			Number of vessels	Registered net tons	Gross tons
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons			
Destined to ports on Lake Ontario:									
Registry:									
Canada	567	1,471,456	2,169,725	613	4,081,826	5,606,427	1,180	5,553,282	7,776,152
United States	—	—	—	188	326,176	440,773	188	326,176	440,773
United Kingdom	5	26,977	37,789	12	51,548	73,013	17	78,525	110,802
Other British Commonwealth	14	67,311	98,291	144	742,859	1,112,411	158	810,170	1,210,702
Germany	2	4,264	7,879	2	4,754	8,176	4	9,018	16,055
Norway	1	1,314	2,887	—	—	—	1	1,314	2,687
Totals	589	1,571,322	2,316,571	959	5,207,163	7,240,800	1,548	6,778,485	9,557,371
Destined to ports on the St. Lawrence river:									
Registry:									
Canada	544	3,140,820	4,428,972	433	1,940,218	2,700,754	977	5,081,038	7,129,726
United States	—	—	—	79	473,870	692,655	79	473,870	692,655
United Kingdom	3	10,856	15,983	30	145,840	213,457	33	156,696	229,440
Other British Commonwealth	19	97,651	142,431	41	217,997	318,806	60	315,648	461,237
France	—	—	—	1	2,791	3,121	1	2,791	3,121
Germany	—	—	—	1	5,810	8,532	1	5,810	8,532
Norway	—	—	—	4	14,682	25,532	4	14,682	25,532
Panama	1	1,098	1,931	—	—	—	1	1,098	1,931
Liberia	—	—	—	20	93,160	163,940	20	93,160	163,940
Totals	567	3,250,425	4,589,317	609	2,894,568	4,126,797	1,176	6,144,993	8,716,114
Destined to ports outside the Gulf of St. Lawrence:									
Registry:									
Canada	21	66,257	105,813	2	3,237	4,994	23	69,494	110,807
United States	2	1,269	1,424	270	346,404	502,127	272	347,673	503,551
United Kingdom	35	106,001	191,744	130	489,812	858,553	165	595,813	1,050,297
Other British Commonwealth	2	12,087	19,378	5	25,525	41,980	7	37,612	61,358
Belgium	—	—	—	4	52,977	58,864	4	52,977	58,864
Denmark	9	3,233	6,704	5	14,871	27,249	14	16,104	33,953
Finland	—	—	—	9	2,507	4,491	9	2,507	4,491
France	5	20,118	38,362	30	127,443	230,290	35	147,561	268,652
Germany	6	25,594	40,840	192	449,796	759,111	198	475,390	799,951
Greece	2	8,291	13,863	25	128,544	202,390	27	136,835	216,253
Italy	1	3,205	5,851	15	58,226	100,803	16	61,431	106,654
Netherlands	3	11,433	21,723	67	169,068	299,419	70	180,501	321,142
Norway	17	59,540	109,811	178	586,298	1,048,458	195	645,838	1,158,269
Sweden	6	30,499	53,934	65	175,966	331,240	71	206,465	385,174
Other Europe	4	20,260	31,435	19	71,698	121,357	23	91,958	152,792
Panama	—	—	—	3	10,893	16,468	3	10,893	16,468
Middle East	—	—	—	14	38,173	66,752	14	38,173	66,752
Other Asia	—	—	—	26	136,526	233,382	26	136,526	233,382
Liberia	1	4,498	7,620	18	94,068	150,466	19	98,566	158,108
Totals	114	372,285	648,502	1,077	2,982,032	5,060,416	1,191	3,354,317	5,708,918
Grand totals — Downbound	1,270	5,194,032	7,554,390	2,645	11,083,763	16,428,013	3,915	16,277,795	23,982,403

TABLE 21. Number and Tonnage of Vessels Using the Welland Section of the Seaway by Registry and Rig

Country of registry	Steam			Motor			Other			Total		
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Upbound:												
Canada	1,486	9,014,467	12,615,318	687	1,773,994	2,510,985	19	5,032	5,322	2,192	10,793,493	15,131,625
United States	164	852,454	1,265,446	111	115,334	165,554	299	192,757	213,077	574	1,160,545	1,644,077
United Kingdom	83	358,577	562,357	118	430,852	764,091	1	633	633	202	790,062	1,327,081
Other British Commonwealth	245	1,249,737	1,853,876	7	42,267	67,416	—	—	—	252	1,292,004	1,921,292
Belgium	—	—	—	4	52,976	58,864	—	—	—	4	52,976	58,864
Denmark	—	—	—	13	13,816	26,185	—	—	—	13	13,816	26,185
Finland	—	—	—	9	2,504	4,491	—	—	—	9	2,504	4,491
France	1	3,121	6,336	34	145,545	261,804	—	—	—	35	148,686	268,140
Germany	2	2,967	5,008	200	468,097	792,671	—	—	—	202	471,064	797,679
Greece	11	61,110	97,537	13	51,128	86,453	—	—	—	24	112,238	183,990
Italy	3	12,922	21,106	12	42,218	75,488	—	—	—	15	55,140	96,594
Netherlands	5	22,072	38,294	60	142,012	252,431	—	—	—	65	164,084	290,725
Norway	7	26,947	47,696	192	625,861	1,124,911	—	—	—	199	652,808	1,172,607
Sweden	1	6,441	11,482	68	186,731	349,926	—	—	—	69	193,172	361,408
Other Europe	—	—	—	23	92,239	152,802	—	—	—	23	92,239	152,802
Panama	3	9,874	16,314	1	2,117	4,085	—	—	—	4	11,991	20,399
Middle East	2	10,644	16,378	11	24,744	45,361	—	—	—	13	35,388	61,739
Other Asia	—	—	—	23	122,011	208,041	—	—	—	23	122,011	208,041
Liberia	8	41,289	62,688	29	141,793	241,623	—	—	—	37	183,082	304,311
Totals	2,021	11,672,622	16,619,836	1,615	4,476,239	7,193,182	319	198,422	219,032	3,955	16,347,283	24,032,050
Downbound:												
Canada	1,468	8,915,100	12,480,596	680	1,779,702	2,526,587	32	9,012	9,502	2,180	10,703,814	15,016,685
United States	167	871,409	1,295,150	107	109,109	155,317	265	167,201	186,512	539	1,147,719	1,636,979
United Kingdom	88	375,861	587,360	126	451,394	799,200	1	3,979	3,979	215	831,034	1,390,539
Other British Commonwealth	217	1,119,268	1,662,866	8	44,162	70,411	—	—	—	225	1,163,430	1,733,297
Belgium	—	—	—	4	52,977	58,864	—	—	—	4	52,977	58,864
Denmark	—	—	—	14	18,104	33,953	—	—	—	14	18,104	33,953
Finland	—	—	—	9	2,507	4,491	—	—	—	9	2,507	4,491
France	1	3,121	6,336	35	147,231	265,437	—	—	—	36	150,352	271,773
Germany	3	6,380	11,431	200	483,838	813,107	—	—	—	203	490,218	824,538
Greece	14	82,092	123,962	13	54,743	92,291	—	—	—	27	136,835	216,253
Italy	3	12,922	21,106	13	48,509	85,548	—	—	—	16	61,431	106,654
Netherlands	2	9,644	16,744	68	170,857	304,398	—	—	—	70	180,501	321,142
Norway	10	36,613	65,845	190	625,421	1,120,843	—	—	—	200	662,034	1,186,688
Sweden	1	3,635	6,564	70	202,830	378,610	—	—	—	71	206,465	385,174
Other Europe	—	—	—	23	91,958	152,792	—	—	—	23	91,958	152,792
Panama	2	5,462	9,129	2	6,529	11,270	—	—	—	4	11,991	20,399
Middle East	1	5,322	8,189	13	32,851	58,563	—	—	—	14	38,173	66,752
Other Asia	—	—	—	26	136,526	233,382	—	—	—	26	136,526	233,382
Liberia	8	39,167	61,287	31	152,559	260,761	—	—	—	39	191,726	322,048
Totals	1,985	11,485,796	16,356,585	1,632	4,611,807	7,425,825	298	180,192	199,993	3,915	16,277,795	23,982,403
Grand totals	4,006	23,158,418	32,976,421	3,247	9,088,046	14,619,007	617	378,614	419,025	7,870	32,625,078	48,014,453

TABLE 22. Number and Tonnage of Vessels Using the Welland Section of the Seaway by Kind and Length

Kind of vessel and length	Upbound			Downbound			Total		
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Cargo vessel:									
120 to 159 feet	38	7,923	14,724	38	7,924	14,845	76	15,847	29,369
160 " 199 "	25	5,950	14,253	28	6,180	14,761	51	12,130	29,014
200 " 239 "	17	13,999	21,392	12	5,670	8,030	29	19,669	29,422
240 " 279 "	451	646,298	974,403	455	646,477	978,944	906	1,292,775	1,953,347
280 " 319 "	133	196,762	316,163	133	197,018	319,497	266	393,780	635,660
320 " 359 "	198	448,193	678,739	197	445,989	676,430	395	894,182	1,355,169
360 " 399 "	213	470,053	791,535	205	453,190	768,014	418	923,243	1,557,549
400 " 439 "	306	933,274	1,461,806	310	950,755	1,494,747	616	1,884,029	2,956,553
440 " 479 "	400	1,490,524	2,450,636	402	1,508,971	2,480,740	802	2,999,495	4,931,376
480 " 519 "	319	1,549,277	2,494,574	310	1,532,084	2,466,057	629	3,081,361	4,960,631
520 " 559 "	267	1,442,940	2,159,024	252	1,372,278	2,057,967	519	2,815,218	4,216,991
560 " 599 "	84	382,702	540,158	62	367,748	516,794	126	750,450	1,056,952
600 " 639 "	171	1,310,759	1,867,027	179	1,362,142	1,947,669	350	2,672,901	3,614,698
640 " 679 "	165	1,436,504	2,003,427	163	1,426,078	1,989,644	328	2,862,582	3,993,071
680 " 759 "	407	5,087,020	6,669,329	407	5,085,423	6,886,032	814	10,172,443	13,755,361
Totals	3,174	15,422,178	22,657,190	3,151	15,367,927	22,617,971	6,325	30,790,105	45,275,161
Barge or scow:									
Under 80 feet	2	63	63	1	42	42	3	105	105
80 to 119 feet	9	3,239	3,389	12	3,820	3,820	21	7,059	7,209
120 " 159 "	7	2,727	2,727	8	3,145	3,145	15	5,872	5,872
160 " 199 "	4	3,680	3,660	1	883	883	5	4,543	4,543
200 " 239 "	17	20,954	20,954	10	11,137	11,335	27	32,091	32,289
280 " 319 "	—	—	—	1	3,614	3,614	1	3,614	3,614
400 " 439 "	—	—	—	1	3,979	3,979	1	3,979	3,979
Totals	39	30,643	30,793	34	26,620	26,818	73	57,263	57,611
Tug and scow:									
Under 80 feet	2	42	93	8	168	374	10	210	467
80 to 119 feet	6	2,049	2,463	10	2,159	2,632	16	4,208	5,095
120 " 159 "	—	—	—	2	402	627	2	402	627
160 " 199 "	6	2,727	3,149	4	1,981	2,270	10	4,708	5,419
200 " 239 "	260	157,735	176,953	234	143,236	161,265	494	300,971	338,218
240 " 279 "	4	2,080	2,302	4	2,480	2,728	8	4,560	5,030
320 " 359 "	2	3,146	3,279	2	3,146	3,279	4	6,292	6,558
Totals	280	167,779	188,239	264	153,572	173,175	544	321,351	361,414
Tanker:									
160 to 199 feet	2	1,260	1,470	3	1,890	2,205	5	3,150	3,675
200 " 239 "	8	2,663	5,653	9	3,233	6,704	17	5,896	12,357
240 " 279 "	147	182,658	294,689	145	180,627	290,807	292	383,285	585,496
280 " 319 "	55	71,864	105,864	55	71,866	105,866	110	143,730	211,730
320 " 359 "	26	58,427	85,689	27	59,987	88,502	53	118,714	174,191
360 " 399 "	23	54,474	97,437	25	59,933	106,507	48	114,407	203,944
400 " 439 "	14	53,172	78,062	14	53,172	78,062	28	106,344	156,124
440 " 479 "	1	3,363	5,443	2	8,055	13,851	3	11,418	19,294
480 " 519 "	22	110,358	195,255	25	124,762	220,605	47	235,120	415,860
520 " 559 "	17	115,978	185,972	15	103,603	162,825	32	219,581	348,797
560 " 599 "	1	7,622	12,698	1	7,622	12,698	2	15,244	25,396
600 " 639 "	1	8,196	10,061	1	13,244	14,716	2	21,440	24,777
Totals	317	670,335	1,078,293	322	687,894	1,103,348	639	1,358,329	2,181,641
Tug or dredge:									
Under 80 feet	49	2,527	3,867	51	2,499	3,852	100	5,026	7,719
80 to 119 feet	39	4,430	6,684	30	4,221	6,030	69	8,651	12,714
120 " 159 "	2	786	1,441	—	—	—	2	786	1,441
160 " 199 "	1	455	1,196	1	455	1,196	2	910	2,392
200 " 239 "	1	1,304	1,760	1	1,304	1,760	2	2,608	3,520
240 " 279 "	—	—	—	1	2,195	5,386	1	2,195	5,386
Totals	92	9,502	14,948	84	10,674	18,224	176	20,176	33,172
Other vessels:									
Under 80 feet	13	484	560	15	615	785	28	1,099	1,345
80 to 119 feet	12	2,448	2,882	12	2,196	2,435	24	4,644	5,117
120 " 159 "	11	3,498	4,430	17	5,082	6,820	28	8,580	11,250
160 " 199 "	8	2,914	5,643	7	3,212	5,942	13	8,126	11,585
280 " 319 "	1	1,896	1,896	1	1,896	1,896	2	3,792	3,792
360 " 399 "	6	11,825	15,538	6	12,095	15,532	12	23,920	31,070
400 " 439 "	3	10,537	17,122	2	5,912	9,457	5	16,449	26,579
600 " 639 "	1	13,244	14,716	—	—	—	1	13,244	14,716
Totals	53	46,846	62,587	60	31,008	42,867	113	77,854	105,454
Grand totals	3,955	16,347,283	24,032,050	3,915	16,277,795	23,982,403	7,870	32,625,978	48,014,453

TABLE 23. Number and Tonnage of Vessels Using the Welland Section of the Seaway by Kind and Draft

Kind of vessel and draft	Upbound			Downbound			Total		
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Cargo vessel:									
6 to 7 feet	2	2,222	3,299	—	—	—	2	2,222	3,299
8 " 9 "	4	3,503	5,099	1	170	371	5	3,873	5,470
10 " 11 "	17	20,977	26,654	12	10,415	11,249	29	31,392	37,903
12 " 13 "	64	63,273	103,226	44	36,205	62,896	108	99,478	166,122
14 " 15 "	117	188,927	290,364	90	95,412	147,256	207	284,339	437,620
16 " 17 "	215	350,324	531,207	216	348,316	524,250	431	698,640	1,055,457
18 " 19 "	407	819,740	1,232,468	408	772,562	1,173,196	815	1,592,322	2,405,664
20 " 21 "	676	2,398,841	3,515,984	663	2,351,069	3,431,409	1,339	4,749,910	6,947,393
22 " 23 "	355	1,449,629	2,159,395	352	1,445,736	2,138,760	707	2,895,365	4,296,155
24 " 25 "	581	3,687,515	5,482,265	607	3,795,599	5,653,984	1,188	7,483,114	11,136,249
26 " 27 "	463	4,747,944	8,548,380	464	4,714,722	6,534,734	927	9,462,666	13,083,114
28 " 29 "	150	969,815	1,570,432	163	1,048,696	1,700,126	313	2,018,511	3,270,558
30 feet and over	123	719,466	1,188,417	131	749,005	1,239,740	254	1,468,473	2,428,157
Totals	3,174	15,422,178	22,657,190	3,151	15,367,927	22,617,971	6,325	30,790,105	45,275,161
Barge or scow:									
5 feet and under	13	4,641	4,641	14	7,001	7,001	27	11,642	11,642
6 to 7 feet	1	469	619	—	—	—	1	469	619
8 " 9 "	1	401	401	1	388	388	2	789	789
10 " 11 "	17	17,576	17,576	17	16,772	16,970	34	34,348	34,546
12 " 13 "	2	2,077	2,077	1	1,194	1,194	3	3,271	3,271
14 " 15 "	2	2,174	2,174	1	1,265	1,265	3	3,439	3,439
16 " 17 "	2	2,144	2,144	—	—	—	2	2,144	2,144
18 " 19 "	1	1,161	1,161	—	—	—	1	1,181	1,161
Totals	39	30,643	30,793	34	26,620	26,818	73	57,263	57,611
Tug and scow:									
5 feet and under	—	—	—	2	78	84	2	78	84
6 to 7 feet	2	513	602	—	—	—	2	513	602
8 " 9 "	2	42	93	12	602	1,086	14	644	1,179
10 " 11 "	204	124,288	138,854	190	115,623	130,128	394	239,911	268,782
12 " 13 "	66	37,260	42,681	50	28,603	32,655	116	65,863	75,336
14 " 15 "	4	2,530	2,930	6	4,080	4,477	10	6,510	7,407
16 " 17 "	2	3,146	3,279	4	4,586	4,745	6	7,732	8,024
Totals	280	167,779	188,239	264	153,572	173,175	544	321,351	361,414
Tanker:									
8 to 9 feet	1	630	735	2	1,260	1,470	3	1,890	2,205
10 " 11 "	4	3,365	4,511	7	4,257	5,671	11	7,622	10,182
12 " 13 "	14	12,675	19,094	10	10,513	15,288	24	23,188	34,382
14 " 15 "	67	84,381	120,007	63	78,677	111,313	130	163,058	231,320
16 " 17 "	95	132,826	226,250	94	128,991	220,050	189	261,817	446,300
18 " 19 "	32	40,663	71,117	35	45,322	77,058	67	85,985	148,175
20 " 21 "	38	79,594	121,972	36	70,766	110,080	74	150,360	232,052
22 " 23 "	14	49,866	70,786	18	56,619	85,016	32	106,485	155,802
24 " 25 "	7	28,894	51,365	7	25,572	44,022	14	54,466	95,387
26 " 27 "	25	131,736	206,157	28	143,580	226,032	53	275,316	432,189
28 " 29 "	18	93,152	164,213	20	102,846	181,463	38	195,998	345,676
30 feet and over	2	12,553	22,086	2	19,591	25,865	4	32,144	47,971
Totals	317	670,335	1,078,293	322	687,994	1,103,348	639	1,358,329	2,181,641
Tug or dredge:									
5 feet and under	16	685	999	19	591	1,043	35	1,276	2,042
6 to 7 feet	3	108	117	6	1,079	1,397	9	1,187	1,514
8 " 9 "	32	2,278	3,563	27	2,287	3,103	59	4,565	6,666
10 " 11 "	25	3,497	5,345	20	2,105	3,696	45	5,602	9,041
12 " 13 "	13	1,427	2,393	10	1,113	1,839	23	2,540	4,232
14 " 15 "	2	203	771	—	—	—	2	203	771
16 " 17 "	1	1,304	1,760	1	1,304	1,760	2	2,608	3,520
18 " 19 "	—	—	—	1	2,195	5,386	1	2,195	5,386
Totals	92	9,502	14,948	84	10,674	18,224	176	20,176	33,172
Other vessels:									
5 feet and under	17	2,080	2,200	15	1,652	1,708	32	3,732	3,908
6 to 7 feet	4	376	376	7	786	789	11	1,162	1,165
8 " 9 "	6	1,909	2,413	12	3,338	4,335	18	5,247	6,748
10 " 11 "	3	1,299	1,564	5	1,639	2,300	8	2,938	3,864
12 " 13 "	12	8,285	10,941	12	5,860	8,419	24	14,145	19,360
14 " 15 "	2	3,160	3,761	3	5,960	6,561	5	9,120	10,322
16 " 17 "	1	1,067	2,372	1	1,067	2,372	2	2,134	4,744
18 " 19 "	4	8,813	14,493	4	6,810	14,487	8	17,623	28,980
22 " 23 "	1	4,622	7,665	—	—	—	1	4,622	7,665
26 " 27 "	1	95	190	—	—	—	1	95	190
30 feet and over	2	15,140	16,612	1	1,896	1,896	3	17,036	18,508
Totals	53	46,846	62,587	60	31,008	42,867	113	77,854	105,454
Grand totals	3,955	16,347,283	24,032,050	3,915	16,277,795	23,982,403	7,870	32,625,078	48,014,453

TABLE 25 A. Cargo Tons Carried Upbound on the Welland Section of the Seaway by Country of Registry of Vessel

Loaded at	Registry of vessel	Cargo tons		
		Bulk	General	Total
Ports on Lake Ontario and Welland canal	Canada	1,393,470	149,761	1,543,231
	United States	57,786	—	57,786
	United Kingdom	6,793	4	6,797
	Other British Commonwealth	552,142	—	552,142
	Totals	2,010,191	149,765	2,159,956
Ports on the St. Lawrence river	Canada	6,487,724	248,229	6,735,953
	United States	1,189,077	—	1,189,077
	United Kingdom	280,992	—	280,992
	Other British Commonwealth	460,466	13,278	473,744
	Sweden	—	1	1
	Liberia	294,490	—	294,490
Totals	8,712,749	261,508	8,974,257	
Ports outside the Gulf of St. Lawrence	United States	337,858	37,526	375,384
	United Kingdom	123,854	175,524	299,378
	Other British Commonwealth	6,063	8,247	14,310
	Denmark	5,183	6,379	11,562
	Finland	11	1,908	1,919
	France	17,654	21,914	39,568
	Germany	42,873	340,003	382,876
	Greece	27,410	19,763	47,173
	Italy	8,539	22,260	30,799
	Netherlands	5,545	122,812	128,357
	Norway	228,163	201,744	429,907
	Sweden	37,109	38,326	75,435
	Other Europe	9,654	13,860	23,514
	Panama	—	14,912	14,912
	Middle East	124	5,309	5,433
	Other Asia	2,227	96,300	98,527
	Liberia	16,209	10,175	26,384
	Totals	868,476	1,136,962	2,005,438
	In transit freight	38,850	—	38,850
	Grand totals — Upbound	11,630,266	1,548,235	13,178,501

TABLE 25 B. Cargo Tons Carried Downbound on the Welland Section of the Seaway by Country of Registry of Vessel

Unloaded at	Registry of vessel	Cargo tons		
		Bulk	General	Total
Ports on Lake Ontario and Welland canal	Canada	10,114,999	—	10,114,999
	United States	591,682	—	591,682
	United Kingdom	134,863	—	134,863
	Other British Commonwealth	1,388,916	—	1,388,916
	Norway	—	1	1
Totals	12,230,460	1	12,230,461	
Ports on the St. Lawrence river	Canada	9,373,552	—	9,373,552
	United States	410,317	—	410,317
	United Kingdom	302,352	—	302,352
	Other British Commonwealth	548,912	—	548,912
	Germany	—	6	6
	Netherlands	—	328	328
	Norway	19,346	—	19,346
Totals	10,654,479	334	10,654,813	
Ports outside the Gulf of St. Lawrence	Canada	136,712	693	137,405
	United States	271,260	170,516	441,776
	United Kingdom	870,420	36,545	906,965
	Other British Commonwealth	40,927	14,818	55,745
	Belgium	65,547	—	65,547
	Denmark	11,980	1,157	13,137
	Finland	—	7,127	7,127
	France	262,926	15,605	278,531
	Germany	512,688	174,897	687,585
	Greece	206,295	35,245	241,540
	Italy	99,973	17,676	117,649
	Netherlands	210,761	71,089	281,850
	Norway	1,035,655	101,733	1,137,388
	Sweden	233,013	87,854	320,867
	Other Europe	156,866	27,423	184,289
	Panama	24,826	—	24,826
	Middle East	26,188	32,444	58,632
	Other Asia	23,673	79,840	103,513
	Liberia	153,441	10,943	164,384
	Totals	4,343,151	885,605	5,228,756
In transit freight	32,998	—	32,998	
Grand totals — Downbound	27,261,088	885,940	28,147,028	

TABLE 27A. Commodities Carried Upbound on the Welland Section of the Seaway by Country of Loading and Unloading

No.	Commodity	Canada to		United States to		United Kingdom to	
		Canada	United States	Canada	United States	Canada	United States
		tons					
	Food, feed, beverages and tobacco:						
1	Fish and marine animals	-	-	-	24	7	143
2	Grain, flour, meal and cereals, n.e.s.	-	12,220	-	-	3	105
3	Fruits and fruit preparations	-	-	-	-	-	661
4	Sugar	-	-	-	4,892	-	-
5	Molasses, crude and refined	-	-	-	64,401	-	-
6	Sugar preparations (incl. confectionery)	-	-	-	28,482	228	582
7	Ale, beer and wines	-	-	-	5	-	415
8	Distilled alcoholic beverages	-	-	-	-	59	28,968
9	Food, feed, beverages and tobacco, n.e.s.	-	-	-	-	18	879
10	Totals	-	12,220	-	97,804	313	31,753
	Crude materials, inedible:						
11	Crude animal products, inedible (ex. fibres)	-	-	-	-	-	129
12	Oil seeds, oil nuts and oil kernels, n.e.s.	-	-	-	-	-	7,645
13	Rubber, natural	-	-	-	-	-	-
14	Logs and round timber	8,695	-	-	-	-	-
15	Pulpwood	166,608	53,078	-	-	-	-
16	Aluminum ore and concentrates	-	-	-	-	-	-
17	Iron ore	6,703	8,341,949	-	-	-	-
18	Metallic ores and concentrates, n.e.s.	-	-	-	-	-	-
19	Metal scrap	-	6,352	-	-	-	16
20	Coal, bituminous	41,570	-	-	-	-	-
21	Clay and bentonite	-	-	-	-	-	19,636
22	Sand and gravel	41,537	1,014	-	7,686	-	-
23	Stone, crushed and broken	67,550	919,548	-	-	-	-
24	Sulphur	-	40,341	-	20,776	-	-
25	Non-metallic minerals, crude, n.e.s.	5,000	28,086	-	26,828	-	325
26	Crude materials, inedible, n.e.s.	-	2,179	-	-	10	925
27	Totals	337,663	9,390,547	-	55,290	10	28,676
	Fabricated materials, inedible:						
28	Wood fabricated materials	-	-	-	-	-	179
29	Woodpulp	456	10,973	-	-	-	-
30	Newsprint paper	-	444,133	-	-	-	-
31	Paper and paperboard, n.e.s.	-	-	-	-	-	55
32	Cordage, twine and rope	4	-	-	4,729	274	2,276
33	Fish and animal oils	-	-	-	-	-	560
34	Vegetable oils and fats, n.e.s.	-	-	-	-	-	595
35	Chemicals	3,205	-	-	12,169	2,897	8,072
36	Fertilizers	-	2,968	-	-	-	-
37	Chemical products, n.e.s.	92,090	-	963	15,502	2,367	3,776
38	Gasoline	128,586	-	-	8,992	-	-
39	Fuel oil	340,118	48,376	-	71,355	-	-
40	Lubricating oils and greases	3,864	-	-	98,399	-	14
41	Tar, pitch and creosote	-	12,208	-	25,185	-	-
42	Petroleum and coal products, n.e.s.	-	-	-	4,329	569	-
43	Ferro-alloys	-	2,464	-	-	-	17
44	Pig iron	-	101,016	-	-	-	-
45	Iron and steel: ingot, bar, rod, etc.	-	9,008	-	-	-	39,450
46	Steel: plate, sheet and strip	-	-	-	5,207	6,613	1,986
47	Structural shapes and sheet piling	-	-	-	-	15	18,668
48	Iron and steel: pipes, tubes and fittings	-	-	-	-	560	17,771
49	Iron and steel: wire and wire rope	-	-	-	11,115	145	12,205
50	Iron and steel: n.e.s.	-	-	-	-	-	437
51	Aluminum: bar, ingot, pig and slab	-	6,372	-	-	-	89
52	Non-ferrous metals and alloys, n.e.s.	-	-	-	-	-	3,322
53	Metal fabricated basic products, n.e.s.	-	-	-	-	74	2,205
54	Glass: plate, sheet and structural	-	-	-	-	35	6,508
55	Cement	17,535	-	-	3,844	-	-
56	Miscellaneous fabricated materials, n.e.s.	-	-	-	-	204	1,994
57	Totals	585,858	637,518	963	260,826	13,753	120,181
	End products, inedible:						
58	Machinery, equipment and parts	350	-	-	266	1,273	11,017
59	Motor vehicles and parts	-	3	-	-	17	6,549
60	End products, inedible, n.e.s.	-	-	-	-	33	4,418
61	Totals	350	3	-	266	1,323	21,984
62	Miscellaneous freight, n.e.s.	12,821	612	-	-	318	3,536
63	Domestic package freight	205,036	-	-	-	-	-
64	In transit freight	-	-	-	-	-	-
65	Grand totals - Upbound	1,141,728	10,040,900	963	414,186	15,717	206,130

SAULT STE. MARIE CANAL

TABLE 28. Location and Description

	From	To	Length of channel	Locks			
				Number	Minimum dimensions		
					Length	Width	Depth
			miles	feet			
Sault Ste. Marie Canal	St. Mary's Rapids	Sault Ste. Marie, Ont.	1.38	1	900	60	18.25

TABLE 29. Historical Summary, 1954-63

Registry of vessel	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Vessel transits										
Upbound:										
Canada	1,673	1,766	1,913	1,607	1,295	1,111	1,331	1,150	899	877
United States	601	765	700	138	105	233	113	121	137	111
United Kingdom ¹ .....	..	—	1	—	6	13	40	50	8	6
Other foreign	11	8	9	4	41	15	46	31	31	5
Totals	2,285	2,539	2,623	1,749	1,447	1,372	1,530	1,352	1,075	999
Downbound:										
Canada	1,457	1,587	1,655	1,186	1,033	914	1,055	882	762	844
United States	598	774	712	720	918	2,126	2,232	1,215	1,272	1,206
United Kingdom ¹ .....	..	—	1	—	4	11	21	18	11	1
Other foreign	9	8	9	4	40	5	17	6	10	—
Totals	2,064	2,369	2,377	1,910	1,995	3,056	3,325	2,121	2,075	2,051
Grand totals	4,349	4,908	5,000	3,659	3,442	4,428	4,855	3,473	3,150	3,050
Registered net tons										
Upbound:										
Canada	2,145,449	2,019,797	2,566,237	1,944,257	1,572,412	1,380,730	1,815,064	1,733,304	1,169,023	992,179
United States	262,668	392,277	372,726	332,883	109,314	132,294	116,627	156,698	177,559	96,768
United Kingdom ¹ .....	..	—	727	—	3,756	10,857	90,719	140,819	23,182	20,357
Other foreign	8,086	6,612	8,655	2,934	31,963	17,805	111,846	87,769	69,455	12,370
Totals	2,416,203	2,418,686	2,948,345	2,280,074	1,717,445	1,541,686	2,134,256	2,118,590	1,439,219	1,121,671
Downbound:										
Canada	1,493,027	1,396,128	1,807,982	1,097,372	819,918	811,597	1,035,640	890,089	884,201	878,812
United States	178,867	298,362	308,720	320,512	281,689	321,962	314,074	184,050	271,052	200,712
United Kingdom ¹ .....	..	—	727	—	2,107	8,487	21,222	17,125	10,517	4,584
Other foreign	5,814	6,582	8,685	2,934	31,001	4,040	20,059	10,363	14,556	—
Totals	1,677,708	1,701,072	2,126,114	1,420,818	1,134,715	1,146,086	1,390,995	1,101,627	1,180,326	1,084,108
Grand totals	4,093,911	4,119,758	5,074,459	3,700,892	2,852,160	2,687,772	3,525,251	3,220,217	2,619,545	2,205,779
Cargo tons										
Upbound:										
Canada .....	..	641,701	683,604	571,437	327,050	383,755	600,864	429,458	320,135	182,517
United States .....	..	68,210	67,797	52,642	12,537	47,507	114,753	25,774	28,355	18,068
United Kingdom ¹ .....	..	—	—	—	—	185	6,794	9,981	3,858	129
Other foreign .....	..	4,043	6,904	2,571	7,582	6,249	5,245	2,561	4,884	—
Totals	845,990	713,954	758,305	626,650	347,169	437,696	727,656	467,774	357,232	200,714
Downbound:										
Canada .....	..	1,461,155	2,204,837	1,151,155	821,218	770,182	963,511	655,884	722,468	589,883
United States .....	..	21,408	17,616	2,485	6,682	15,113	8,533	4,810	15,155	19,408
United Kingdom ¹ .....	..	—	968	—	4,695	2,150	14,389	9,495	—	—
Other foreign .....	..	4,558	7,552	4,410	48,897	7,553	6,533	2,987	12,254	—
Totals	1,761,978	1,487,121	2,230,973	1,158,050	881,492	794,998	992,966	673,176	749,897	609,291
Grand totals	2,607,968	2,201,075	2,989,278	1,784,700	1,228,661	1,232,694	1,720,622	1,140,950	1,107,129	810,005
Season of navigation										
First vessel passage	April 10	April 11	April 5	April 5	April 8	April 13	April 4	April 11	April 3	April 4
Last vessel passage	Dec. 11	Dec. 12	Dec. 12	Dec. 12	Dec. 11	Dec. 12	Dec. 12	Dec. 12	Dec. 12	Nov. 30

¹ Includes other British Commonwealth.

TABLE 30. Traffic on the Sault Ste. Marie Section of the Seaway by Kind of Vessel

Kind of vessel	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
Upbound:							
Cargo	298	79	377	772,887	1,136,458	86,637	—
Passenger-cargo	87	24	91	101,003	151,896	1,936	11,672
Cargo-passenger	2	—	2	3,384	5,904	—	—
Scow, barge, etc.	168	1	169	158,589	167,897	129	—
Tanker	9	37	46	60,626	93,457	112,012	—
Tug or dredge	285	—	285	21,594	47,672	—	—
Naval or Government	29	—	29	3,588	8,659	—	—
Totals	858	141	999	1,121,671	1,611,943	200,714	11,672
Downbound:							
Cargo	66	187	253	460,468	879,013	421,819	282
Passenger-cargo	1,155	42	1,197	216,009	310,290	55,745	130,709
Cargo-passenger	2	—	2	248	674	—	—
Scow, barge, etc.	41	109	150	119,538	128,161	97,455	—
Tanker	131	13	144	265,980	407,813	34,472	—
Tug or dredge	266	—	266	16,601	41,432	—	—
Naval or Government	39	—	39	5,064	11,157	—	—
Totals	1,700	351	2,051	1,084,106	1,578,540	609,291	130,991
Grand totals	2,558	492	3,050	2,205,779	3,190,483	810,005	142,663

TABLE 31. Traffic on the Sault Ste. Marie Section of the Seaway by Country of Registry of Vessel

Country of registry	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
Upbound:							
Canada	766	111	877	992,176	1,429,786	182,517	3,087
United States	62	29	111	96,766	128,214	18,068	8,585
United Kingdom	2	1	3	6,245	12,305	129	—
Other British Commonwealth	3	—	3	14,112	19,681	—	—
Norway	4	—	4	9,376	16,785	—	—
Other Asia	1	—	1	2,992	5,172	—	—
Totals	858	141	999	1,121,671	1,611,943	200,714	11,672
Downbound:							
Canada	501	343	844	878,812	1,281,854	589,883	5,177
United States	1,198	8	1,206	200,712	289,721	19,408	125,814
United Kingdom	1	—	1	4,584	8,965	—	—
Totals	1,700	351	2,051	1,084,106	1,578,540	609,291	130,991
Grand totals	2,558	492	3,050	2,205,779	3,190,483	810,005	142,663

TABLE 32. Traffic on the Sault Ste. Marie Section of the Seaway by Length of Vessel

Length of vessel	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
Upbound:							
Under 80 feet	123	—	123	6,722	7,521	—	4,363
80 to 119 feet	187	22	209	9,280	21,468	2,983	—
120 " 159 "	113	—	113	35,845	51,181	—	—
160 " 199 "	2	1	3	2,151	3,503	129	147
200 " 239 "	102	—	102	103,473	124,801	—	1,051
240 " 279 "	135	39	174	215,238	331,594	—	—
280 " 319 "	12	8	20	34,477	53,662	97,840	—
320 " 359 "	96	38	134	314,363	455,958	15,385	6,111
360 " 399 "	22	23	45	118,000	157,389	34,318	—
400 " 439 "	18	9	27	88,851	126,615	16,147	—
440 " 479 "	20	1	21	64,236	97,940	1,787	—
480 " 519 "	15	—	15	62,246	91,811	—	—
520 " 559 "	12	—	12	61,025	81,702	—	—
560 " 599 "	1	—	1	5,764	6,798	—	—
Totals	858	141	999	1,121,671	1,611,943	200,714	11,672
Downbound:							
Under 80 feet	1,207	—	1,207	77,301	97,024	—	121,650
80 to 119 feet	210	2	212	9,317	21,801	145	—
120 " 159 "	78	21	99	32,202	45,328	14,100	—
160 " 199 "	2	—	2	1,382	2,460	—	61
200 " 239 "	18	86	104	105,127	127,405	78,485	1,137
240 " 279 "	67	135	202	248,584	389,910	339,991	—
280 " 319 "	28	1	29	46,732	73,433	3,908	—
320 " 359 "	26	73	99	242,219	359,177	132,688	8,143
360 " 399 "	16	22	38	99,266	138,727	27,157	—
400 " 439 "	10	10	20	67,142	93,598	11,385	—
440 " 479 "	10	1	11	37,788	60,158	1,432	—
480 " 519 "	27	—	27	112,464	162,554	—	—
520 " 559 "	1	—	1	4,584	6,965	—	—
Totals	1,700	351	2,051	1,084,108	1,578,540	609,291	130,991
Grand totals	2,558	492	3,050	2,205,779	3,190,483	810,005	142,663

TABLE 33 A. Number and Tonnage of Vessels Upbound on the Sault Ste. Marie Section of the Seaway by Origin and Destination

Port of origin and country of registry	Destined to						Total		
	Canada			United States			Number of vessels	Registered net tons	Gross tons
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons			
Originating at ports between the Gulf of St. Lawrence and Sault Ste. Marie:									
Registry:									
Canada	867	966,442	1,391,491	10	25,734	38,295	877	992,176	1,429,786
United States	53	26,120	29,824	58	70,648	98,390	111	96,768	128,214
United Kingdom	1	633	633	1	2,806	5,836	2	3,439	6,469
Other British Commonwealth	3	14,112	19,681	—	—	—	3	14,112	19,681
Norway	3	8,090	14,351	1	1,288	2,434	4	9,378	16,785
Totals	927	1,015,397	1,455,980	70	100,476	144,955	997	1,115,873	1,600,935
Originating at ports outside the Gulf of St. Lawrence:									
Registry:									
United Kingdom	1	2,806	5,836	—	—	—	1	2,806	5,836
Other Asia	—	—	—	1	2,992	5,172	1	2,992	5,172
Totals	1	2,806	5,836	1	2,992	5,172	2	5,798	11,008
Grand totals - Upbound	928	1,018,203	1,461,816	71	103,468	150,127	999	1,121,671	1,611,943

TABLE 33 B. Number and Tonnage of Vessels Downbound on the Sault Ste. Marie Section of the Seaway by Origin and Destination

Port of destination and country of registry	Originating in						Total		
	Canada			United States			Number of vessels	Registered net tons	Gross tons
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons			
Destined to ports between Sault Ste. Marie and the Gulf of St. Lawrence:									
Registry:									
Canada	843	878, 186	1, 280, 181	1	626	1, 673	844	878, 812	1, 281, 854
United States	828	55, 259	70, 680	378	145, 453	219, 041	1, 206	200, 712	289, 721
United Kingdom	1	4, 584	6, 965	—	—	—	1	4, 584	6, 965
Grand totals — Downbound	1, 672	938, 029	1, 357, 826	379	146, 079	220, 714	2, 051	1, 084, 108	1, 578, 540

TABLE 34. Number and Tonnage of Vessels Using the Sault Ste. Marie Section of the Seaway by Registry and Rig

Country of registry	Steam			Motor			Other			Total		
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Upbound:												
Canada	256	485, 585	712, 843	456	362, 685	563, 929	163	143, 706	153, 014	877	992, 176	1, 429, 786
United States	21	64, 022	89, 248	85	18, 496	24, 716	5	14, 250	14, 250	111	96, 768	128, 214
United Kingdom	—	—	—	2	5, 612	11, 672	1	633	633	3	6, 245	12, 305
Other British Commonwealth	3	14, 112	19, 681	—	—	—	—	—	—	3	14, 112	19, 681
Norway	—	—	—	4	9, 378	16, 785	—	—	—	4	9, 378	16, 785
Other Asia	—	—	—	1	2, 992	5, 172	—	—	—	1	2, 992	5, 172
Totals	282	563, 719	821, 772	548	399, 363	622, 274	169	158, 589	187, 897	999	1, 121, 671	1, 611, 843
Downbound:												
Canada	287	512, 040	765, 012	407	247, 234	388, 681	150	119, 538	128, 161	844	878, 812	1, 281, 854
United States	48	110, 797	174, 615	1, 158	89, 915	115, 106	—	—	—	1, 206	200, 712	289, 721
United Kingdom	1	4, 584	6, 965	—	—	—	—	—	—	1	4, 584	6, 965
Totals	336	827, 421	946, 592	1, 565	337, 149	503, 787	150	119, 538	128, 161	2, 051	1, 084, 108	1, 578, 540
Grand totals	618	1, 191, 140	1, 768, 364	2, 113	736, 512	1, 126, 061	319	278, 127	296, 058	3, 050	2, 205, 779	3, 190, 483

TABLE 35. Number and Tonnage of Vessels Using the Sault Ste. Marie Section of the Seaway by Kind and Length

Kind of vessel and length	Upbound			Downbound			Total		
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Cargo vessel:									
Under 80 feet	42	3,241	3,844	1,131	74,028	93,483	1,173	77,269	97,327
80 to 119 feet	23	1,886	2,254	23	1,886	2,254	46	3,772	4,508
120 " 159 "	2	428	622	2	248	674	4	676	1,496
160 " 199 "	2	1,516	2,870	1	759	1,435	3	2,277	4,305
200 " 239 "	13	9,867	18,655	14	10,628	20,090	27	20,493	38,745
240 " 279 "	139	174,891	268,606	128	156,444	242,705	267	331,335	511,311
280 " 319 "	12	21,587	33,407	—	—	—	12	21,587	33,407
320 " 359 "	121	260,004	418,315	85	202,250	306,138	206	482,254	724,453
360 " 399 "	40	101,730	140,619	29	74,328	102,661	69	176,056	243,280
400 " 439 "	27	88,851	126,615	10	34,950	45,290	37	123,801	171,905
440 " 479 "	21	64,236	97,940	1	4,158	5,728	22	66,394	103,668
480 " 519 "	15	62,246	91,811	27	112,464	162,554	42	174,710	254,365
520 " 559 "	12	61,025	81,702	1	4,584	6,965	13	65,609	88,667
560 " 599 "	1	5,764	6,798	—	—	—	1	5,764	6,798
Totals	470	877,274	1,294,258	1,452	676,725	989,977	1,922	1,553,999	2,284,235
Barge or scow:									
Under 80 feet	4	166	166	1	30	30	5	196	196
80 to 119 feet	25	656	856	21	736	736	46	1,592	1,592
120 " 159 "	39	22,593	22,593	41	23,780	23,780	80	46,373	46,373
160 " 199 "	1	633	633	—	—	—	1	633	633
200 " 239 "	85	91,101	99,450	86	91,997	100,620	171	183,098	200,070
320 " 359 "	10	26,970	27,429	1	2,995	2,995	11	29,965	30,424
360 " 399 "	5	16,270	16,770	—	—	—	5	16,270	16,770
Totals	169	158,589	167,897	150	119,538	128,161	319	278,127	296,058
Tanker:									
240 to 279 feet	35	40,347	62,988	73	91,514	145,532	108	131,861	208,520
280 " 319 "	8	12,890	20,255	29	46,732	73,433	37	59,622	93,688
320 " 359 "	3	7,389	10,214	13	36,974	50,044	18	44,363	60,258
360 " 399 "	—	—	—	9	24,938	36,066	9	24,938	36,066
400 " 439 "	—	—	—	10	32,192	48,308	10	32,192	48,308
440 " 479 "	—	—	—	10	33,830	54,430	10	33,830	54,430
Totals	46	60,626	93,457	144	265,980	407,813	190	326,606	501,270
Tug or dredge:									
Under 80 feet	56	2,748	2,907	48	2,320	2,552	104	5,068	5,459
80 to 119 feet	161	6,538	18,358	164	6,575	18,691	325	13,113	37,049
120 " 159 "	68	12,308	26,407	54	7,906	20,189	122	20,214	46,596
Totals	285	21,594	47,672	266	16,801	41,432	551	38,395	89,104
Other vessels:									
Under 80 feet	21	567	604	27	923	959	48	1,490	1,563
80 to 119 feet	—	—	—	4	120	120	4	120	120
120 " 159 "	4	516	1,359	2	268	685	6	784	2,044
160 " 199 "	—	—	—	1	623	1,025	1	623	1,025
200 " 239 "	4	2,505	6,696	4	2,504	6,695	8	5,009	13,391
240 " 279 "	—	—	—	1	626	1,673	1	626	1,673
Totals	29	3,588	8,659	39	5,064	11,157	68	8,652	19,816
Grand totals	999	1,121,671	1,611,943	2,051	1,084,108	1,578,540	3,050	2,205,779	3,190,483

TABLE 36. Number and Tonnage of Vessels Using the Sault Ste. Marie Section of the Seaway by Kind and Draft

Kind of vessel and draft	Upbound			Downbound			Total		
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Cargo vessel:									
6 to 7 feet	42	3,241	3,844	1,131	74,028	93,483	1,173	77,269	97,327
10 " 11 "	1	1,898	3,280	2	248	674	3	2,146	3,954
12 " 13 "	42	21,627	31,286	28	7,034	10,231	70	28,661	41,517
14 " 15 "	28	36,299	58,942	32	31,606	52,085	60	67,905	111,027
16 " 17 "	132	194,261	305,305	130	185,129	294,049	262	379,389	599,354
18 " 19 "	72	183,340	252,456	64	156,104	228,623	136	339,444	461,079
20 " 21 "	112	325,382	478,382	48	174,483	249,216	160	499,665	727,596
22 " 23 "	35	91,778	126,511	16	43,936	55,868	51	135,714	182,399
24 " 25 "	3	9,770	17,400	1	4,158	5,728	4	13,928	23,128
26 " 27 "	3	9,678	16,852	—	—	—	3	9,678	16,852
Totals	470	877,274	1,294,258	1,452	676,725	989,977	1,922	1,553,999	2,284,235
Barge or scow:									
5 feet and under	151	113,121	121,368	37	13,860	14,776	188	126,981	136,144
6 to 7 feet	2	1,160	1,160	20	11,600	11,600	22	12,760	12,760
8 " 9 "	—	—	—	37	32,216	34,440	37	32,216	34,440
10 " 11 "	1	1,068	1,170	54	57,697	63,180	55	58,765	64,350
12 " 13 "	—	—	—	1	1,170	1,170	1	1,170	1,170
16 " 17 "	5	14,250	14,250	—	—	—	5	14,250	14,250
18 " 19 "	10	28,990	29,949	1	2,995	2,995	11	31,985	32,944
Totals	169	158,589	167,897	150	119,538	128,161	319	278,127	296,058
Tanker:									
12 to 13 feet	4	2,992	4,968	5	6,954	10,397	9	9,946	15,365
14 " 15 "	10	11,778	15,525	10	11,778	15,525	20	23,556	31,050
16 " 17 "	26	35,047	57,403	52	77,643	123,657	78	112,890	181,060
18 " 19 "	—	—	—	23	27,640	47,478	23	27,640	47,478
20 " 21 "	6	10,809	15,561	34	83,784	126,466	40	94,593	142,027
22 " 23 "	—	—	—	16	48,957	70,942	16	48,957	70,942
24 " 25 "	—	—	—	4	9,024	13,348	4	9,024	13,348
Totals	46	60,626	93,457	144	265,980	407,813	190	326,606	501,270
Tug or dredge:									
5 feet and under	7	3,488	3,493	2	48	128	9	3,536	3,819
6 to 7 feet	51	2,604	2,626	42	2,136	2,158	93	4,740	4,784
8 " 9 "	—	—	—	4	2,320	2,320	4	2,320	2,320
10 " 11 "	193	9,797	28,480	196	9,734	28,813	389	19,531	57,293
12 " 13 "	13	637	4,316	13	637	4,316	26	1,274	8,632
14 " 15 "	21	5,068	8,757	9	1,926	3,699	30	6,994	12,456
Totals	285	21,594	47,672	266	16,801	41,432	551	38,395	89,104
Other vessels:									
5 feet and under	11	90	122	15	211	247	26	301	369
6 to 7 feet	10	477	482	16	832	832	26	1,309	1,314
10 " 11 "	3	372	1,012	1	124	338	4	496	1,350
12 " 13 "	1	144	347	2	787	1,372	3	911	1,719
16 " 17 "	4	2,505	6,696	5	3,130	8,368	9	5,635	15,064
Totals	29	3,588	8,659	39	5,064	11,157	68	8,652	19,816
Grand totals	999	1,121,671	1,611,943	2,051	1,084,108	1,578,540	3,050	2,205,779	3,190,483

TABLE 37 A. Cargo Tons Carried Upbound on the Sault Ste. Marie Section of the Seaway by Country of Loading and Unloading

Country of loading	Cargo unloaded								
	In Canada			In United States			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
Ports between Sault Ste. Marie and Gulf of St. Lawrence:									
Canada	163,286	4	163,290	2,908	—	2,908	166,194	4	166,198
United States	18,022	171	18,193	15,085	—	15,085	33,107	171	33,278
Totals	181,308	175	181,483	17,993	—	17,993	199,301	175	199,476
In Transit freight .....	..	..	..	..	..	..	1,238	—	1,238
Grand totals — Upbound	181,308	175	181,483	17,993	—	17,993	200,539	175	200,714

TABLE 37 B. Cargo Tons Carried Downbound on the Sault Ste. Marie Section of the Seaway by Country of Loading and Unloading

Country of unloading	Cargo loaded								
	In Canada			In United States			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
Ports between Sault Ste. Marie and Gulf of St. Lawrence:									
Canada	340,201	—	340,201	—	—	—	340,201	—	340,201
United States	134,084	114,435	248,519	19,333	—	19,333	153,417	114,435	267,852
Totals	474,285	114,435	588,720	19,333	—	19,333	493,618	114,435	608,053
In transit freight .....	..	..	..	..	..	..	1,238	—	1,238
Grand totals — Downbound	474,285	114,435	588,720	19,333	—	19,333	494,856	114,435	609,291

TABLE 38 A. Cargo Tons Carried Upbound on the Sault Ste. Marie Section of the Seaway by Country of Registry of vessel

Loaded at	Registry of vessel	Cargo tons		
		Bulk	General	Total
Ports between Sault Ste. Marie and Gulf of St. Lawrence				
	Canada	181,104	175	181,279
	United States	18,068	—	18,068
	United Kingdom	129	—	129
	Totals	199,301	175	199,476
	In transit freight	1,238	—	1,238
	Grand totals — Upbound	200,539	175	200,714

TABLE 38 B. Cargo Tons Carried Downbound on the Sault Ste. Marie Section of the Seaway by Country of Registry of Vessel

Discharged at	Registry of vessel	Cargo tons		
		Bulk	General	Total
Ports between Sault Ste. Marie and Gulf of St. Lawrence	Canada	474,210	114,435	588,645
	United States.....	19,408	—	19,408
	Totals.....	493,618	114,435	608,053
	In transit freight	1,238	—	1,238
	Grand totals — Downbound	494,856	114,435	609,291

TABLE 39. Cargo Tons Carried on the Sault Ste. Marie Section of the Seaway by Kind, Gross Tonnage and Number of Vessels

Kind of vessel and gross tonnage	Upbound							Downbound							
	Number of vessels			Cargo tons			Average cargo tons per vessel	Number of vessels			Cargo tons			Average cargo tons per vessel	
	In ballast	With cargo	Total	Bulk	General	Total		In ballast	With cargo	Total	Bulk	General	Total		
Cargo vessel:															
Under 1,000 gross tons ...	45	22	67	2,983	—	2,983	135.6	1,155	1	1,156	75	—	75	75.0	
1,000 to 1,999	78	7	85	12,071	99	12,170	1,738.6	18	67	85	96,269	52,211	148,480	2,216.1	
2,000 " 2,999	84	6	90	17,291	—	17,291	2,881.8	13	57	70	163,678	4,532	168,210	2,951.1	
3,000 " 3,999	94	58	152	38,127	68	38,195	658.5	9	93	102	93,209	54,573	147,782	1,589.1	
4,000 " 4,999	32	9	41	16,139	8	16,147	1,794.1	—	10	10	8,266	3,119	11,385	1,138.5	
5,000 " 5,999	15	1	16	1,787	—	1,787	1,787.0	14	1	15	1,432	—	1,432	1,432.0	
6,000 " 6,999	13	—	13	—	—	—	—	14	—	14	—	—	—	—	
7,000 " 7,999	6	—	6	—	—	—	—	—	—	—	—	—	—	—	
Totals.....	367	103	470	88,398	175	88,573	859.9	1,223	229	1,452	362,929	114,435	477,364	2,084.6	
Barge or scow:															
Under 1,000 gross tons ...	68	1	69	129	—	129	129.0	41	22	63	14,170	—	14,170	644.1	
1,000 to 1,999	85	—	85	—	—	—	—	—	86	86	78,485	—	78,485	912.6	
2,000 " 2,999	8	—	8	—	—	—	—	—	1	1	4,800	—	4,800	4,800.0	
3,000 " 3,999	7	—	7	—	—	—	—	—	—	—	—	—	—	—	
Totals.....	168	1	169	129	—	129	129.0	41	109	150	97,455	—	97,455	894.1	
Tanker:															
1,000 to 1,999 gross tons..	4	22	26	56,397	—	56,397	2,563.5	18	10	28	22,063	—	22,063	2,206.3	
2,000 " 2,999 " " ..	4	13	17	47,207	—	47,207	3,631.3	72	2	74	5,146	—	5,146	2,573.0	
3,000 " 3,999 " " ..	1	2	3	8,408	—	8,408	4,204.0	5	1	6	7,263	—	7,263	7,263.0	
4,000 " 4,999 " " ..	—	—	—	—	—	—	—	22	—	22	—	—	—	—	
5,000 " 5,999 " " ..	—	—	—	—	—	—	—	14	—	14	—	—	—	—	
Totals.....	9	37	46	112,012	—	112,012	3,027.4	131	13	144	34,472	—	34,472	2,651.7	
Other vessels:															
Under 1,000 gross tons ...	310	—	310	—	—	—	—	299	—	299	—	—	—	—	
1,000 to 1,999	4	—	4	—	—	—	—	6	—	6	—	—	—	—	
Totals.....	314	—	314	—	—	—	—	305	—	305	—	—	—	—	
Grand totals.....	858	141	999	200,539	175	200,714	1,423.5	1,700	351	2,051	494,856	114,435	609,291	1,735.9	

TABLE 40 A. Commodities Carried Upbound on the Sault Ste. Marie Section of the Seaway by Country of Loading and Unloading

Commodity	Canada to		United States to		United Kingdom to		Other Europe to		Total to		Grand total
	Canada	United States	Canada	United States	Canada	United States	Canada	United States	Canada	United States	
	tons										
Food, feed, beverages and tobacco:											
Food and food preparations	271	—	—	—	—	—	—	—	271	—	271
Food, beverages, tobacco, n.e.s.	491	—	—	—	—	—	—	—	491	—	491
Totals	762	—	—	—	—	—	—	—	762	—	762
Crude materials, inedible:											
Logs and round timber	75	2,888	—	—	—	—	—	—	75	2,888	2,963
Coal, bituminous	—	—	8,517	—	—	—	—	—	8,517	—	8,517
Limestone	—	—	6,305	—	—	—	—	—	6,305	—	6,305
Salt	7,700	—	3,200	—	—	—	—	—	10,900	—	10,900
Crude materials, inedible, n.e.s.	16	—	—	—	—	—	—	—	16	—	16
Totals	7,791	2,888	18,022	—	—	—	—	—	25,823	2,888	28,701
Fabricated materials, inedible:											
Chemicals and chemical products	1,812	—	—	—	—	—	—	—	1,812	—	1,812
Gasoline	53,012	—	—	—	—	—	—	—	53,012	—	53,012
Fuel oil	40,989	—	—	15,085	—	—	—	—	40,989	15,085	56,074
Pig iron	609	—	—	—	—	—	—	—	609	—	609
Steel: plate, sheet and strip	1,135	—	12	—	—	—	—	—	1,147	—	1,147
Iron and steel, n.e.s.	337	—	56	—	—	—	—	—	393	—	393
Cement	2,524	—	—	—	—	—	—	—	2,524	—	2,524
Miscellaneous fabricated materials, n.e.s.	780	20	95	—	—	—	—	—	875	20	895
Totals	101,198	20	163	15,085	—	—	—	—	101,361	15,105	116,466
Miscellaneous freight, n.e.s.	1,024	—	8	—	—	—	—	—	1,032	—	1,032
Domestic package freight	52,515	—	—	—	—	—	—	—	52,515	—	52,515
In transit freight .....	..	..	..	..	..	..	..	..	..	..	1,238
Grand totals — Upbound	163,290	2,908	18,193	15,085	—	—	—	—	181,483	17,993	200,714

TABLE 40 B. Commodities Carried Downbound on the Sault Ste. Marie Section of the Seaway by Country of Loading and Unloading

Commodity	Canada to				United States to						Grand total
	Canada	United States	United Kingdom	Other Europe	Total	Canada	United States	United Kingdom	Other Europe	Total	
	tons										
Food, feed, beverages and tobacco:											
Barley	20,419	12,145	—	—	32,564	—	—	—	—	—	32,564
Oats	11,085	2,257	—	—	13,342	—	—	—	—	—	13,342
Wheat	16,582	388	—	—	16,970	—	—	—	—	—	16,970
Malt	35,654	—	—	—	35,654	—	—	—	—	—	35,654
Podder and feed	57,158	—	—	—	57,158	—	—	—	—	—	57,158
Totals	140,898	14,790	—	—	155,688	—	—	—	—	—	155,688
Crude materials, inedible:											
Pulpwood	2,212	4,800	—	—	7,012	—	—	—	—	—	7,012
Iron and steel scrap	—	4,704	—	—	4,704	—	—	—	—	—	4,704
Sand and gravel	92,655	—	—	—	92,655	—	—	—	—	—	92,655
Crude materials, inedible, n.e.s.	—	75	—	—	75	—	—	—	—	—	75
Totals	94,867	9,579	—	—	104,446	—	—	—	—	—	104,446
Fabricated materials, inedible:											
Woodpulp	—	104,735	—	—	104,735	—	—	—	—	—	104,735
Newsprint paper	—	51,307	—	—	51,307	—	—	—	—	—	51,307
Gasoline	—	—	—	—	—	—	19,333	—	—	19,333	19,333
Fuel oil	3,908	2,428	—	—	6,336	—	—	—	—	—	6,336
Tar, pitch and creosote	7,565	—	—	—	7,565	—	—	—	—	—	7,565
Iron and steel: ingot, billet, rod, etc.	13,786	1,307	—	—	15,073	—	—	—	—	—	15,073
Steel: plate, sheet and strip	35,144	53,421	—	—	88,565	—	—	—	—	—	88,565
Structural shapes and sheet piling	7,862	1,877	—	—	9,739	—	—	—	—	—	9,739
Iron and steel, n.e.s.	1,445	1,180	—	—	2,625	—	—	—	—	—	2,625
Fabricated materials, inedible, n.e.s.	—	882	—	—	882	—	—	—	—	—	882
Totals	69,690	217,137	—	—	286,827	—	19,333	—	—	19,333	306,160
Miscellaneous freight, n.e.s.	—	7,013	—	—	7,013	—	—	—	—	—	7,013
Domestic package freight	34,746	—	—	—	34,746	—	—	—	—	—	34,746
In transit freight .....	..	..	..	..	..	..	..	..	..	..	1,238
Grand totals — Downbound	340,201	248,519	—	—	588,720	—	19,333	—	—	19,333	609,291

LACHINE CANAL

TABLE 41. Traffic on the Lachine Canal by Kind and Registry of Vessel

Kind of vessel and country of registry	Upbound							Downbound						
	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel:														
Canada	282	119	401	235,959	371,305	29,669	—	76	334	410	251,794	398,796	392,665	—
United States	—	1	1	1,086	1,859	242	—	—	—	—	—	—	—	—
United Kingdom	14	5	19	7,033	15,299	624	—	6	12	16	6,806	14,810	5,510	—
Other countries	—	1	1	746	1,743	678	—	1	—	1	746	1,743	—	—
Totals	296	126	422	244,824	390,206	31,213	—	83	346	429	259,346	415,349	398,175	—
Scow or barge:														
Canada	36	—	36	9,802	10,562	—	—	41	—	41	6,307	8,488	—	—
United Kingdom	1	—	1	1,407	2,009	—	—	—	—	—	—	—	—	—
Totals	37	—	37	11,209	12,571	—	—	41	—	41	6,307	8,488	—	—
Tanker:														
Canada	4	—	4	5,694	7,734	—	—	4	1	5	7,359	9,970	2,472	—
Tug or dredge:														
Canada	95	—	95	7,460	10,913	—	—	102	—	102	7,768	11,322	—	—
Tug and scow:														
Canada	—	28	28	4,148	4,653	3,577	—	14	10	24	3,568	4,103	393	—
Other vessels:														
Canada	37	4	41	7,549	12,896	669	—	40	2	42	8,538	13,430	144	—
Other countries	2	—	2	62	79	—	—	1	—	1	26	40	—	—
Totals	39	4	43	7,611	12,975	669	—	41	2	43	8,562	13,470	144	—
Grand totals	471	158	629	280,946	439,052	35,459	—	285	359	644	294,910	462,702	401,184	—
Non toll traffic included	357	154	511	111,343	179,874	24,388	—	278	237	515	113,708	184,835	57,377	—

TABLE 42. Number and Tonnage of Vessels Using the Lachine Canal by Origin and Destination, Registry and Rig

Origin and destination and registry of vessel	Steam			Motor			Other			Total		
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Upbound												
Canada to Canada:												
Canada	47	25,180	40,364	425	130,777	211,021	84	13,950	15,215	536	169,907	266,600
United States	—	—	—	1	1,086	1,859	—	—	—	1	1,086	1,859
United Kingdom	—	—	—	19	7,033	15,299	1	1,407	2,009	20	8,440	17,308
Other countries	—	—	—	3	808	1,822	—	—	—	3	808	1,822
Canada to United States:												
Canada	16	20,641	34,147	50	79,653	116,797	—	—	—	66	100,294	150,944
United States to Canada:												
Canada	—	—	—	3	411	519	—	—	—	3	411	519
Totals	63	45,821	74,511	501	219,768	347,317	65	15,357	17,224	629	280,946	439,052
Downbound												
Canada to Canada:												
Canada	55	33,824	52,424	432	135,192	220,740	65	11,875	12,591	552	180,891	285,755
United Kingdom	—	—	—	18	6,806	14,810	—	—	—	18	6,806	14,810
Other countries	—	—	—	2	772	1,783	—	—	—	2	772	1,783
Canada to United States:												
Canada	—	—	—	2	388	491	—	—	—	2	388	491
United States to Canada:												
Canada	21	27,524	45,027	49	78,529	114,836	—	—	—	70	106,053	159,663
Totals	76	61,348	97,451	503	221,687	352,660	65	11,875	12,591	644	294,910	462,702
Grand totals	139	107,169	171,962	1,004	441,455	699,977	130	27,232	29,815	1,273	575,856	901,754

TABLE 43. Commodities and Passengers Carried through the Lachine Canal by Country of Loading and Unloading

Commodity	Canada to Canada		United States to Canada		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
	tons					
Barley	—	8,264	—	—	—	8,264
Corn	—	2,520	—	—	—	2,520
Wheat	—	91,366	—	—	—	91,366
Malt	—	37,629	—	—	—	37,629
Molasses, crude and refined	—	2,472	—	—	—	2,472
Logs and round timber	—	197	—	—	—	197
Coal, bituminous	—	—	—	201,556	—	201,556
Sand, gravel and stone	11,651	—	—	—	11,651	—
Wood fabricated materials	11,626	832	—	—	11,626	832
Chemical products, n.e.s.	—	6,020	—	—	—	6,020
Iron and steel: ingot, rod, bar, etc.	—	909	—	—	—	909
Structural shapes and sheet piling	2,907	210	—	—	2,907	210
Iron and steel, n.e.s.	—	928	—	—	—	928
Cement	—	94	—	—	—	94
Machinery, equipment and parts	792	385	—	—	792	385
End products inedible, n.e.s.	79	—	—	—	79	—
Miscellaneous freight, n.e.s.	723	21,026	—	—	723	21,026
Domestic package freight	7,681	26,776	—	—	7,681	26,776
Totals	35,459	199,628	—	201,556	35,459	401,184
Non toll traffic included in above	24,388	57,377	—	—	24,388	57,377
Passengers	No.	—	—	—	—	—

CORNWALL CANAL

TABLE 44. Traffic on the Cornwall Canal by kind and Registry of Vessel

Kind of vessel and country of registry	Upbound						Downbound							
	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel:														
Canada	—	8	8	11,731	16,677	21,234	—	31	—	31	44,541	56,732	—	—
United Kingdom	—	1	1	4,584	6,965	10,328	—	—	1	1	4,584	6,965	10,328	—
Other countries	—	6	6	7,344	13,791	10,627	—	4	1	5	6,414	12,049	415	—
Totals	—	15	15	23,659	37,433	42,189	—	35	2	37	55,539	75,746	10,743	—
Scow or barge:														
Canada	23	—	23	2,811	2,811	—	—	22	—	22	3,260	3,260	—	—
United States	—	—	—	—	—	—	—	1	—	1	52	52	—	—
Totals	23	—	23	2,811	2,811	—	—	23	—	23	3,312	3,312	—	—
Tanker:														
Canada	—	—	—	—	—	—	—	16	1	17	20,704	32,562	76	—
Tug or dredge:														
Canada	50	—	50	3,543	4,370	—	—	52	—	52	976	4,456	—	—
Tug and scow:														
Canada	2	—	2	32	85	—	—	4	—	4	325	629	—	—
Other vessels:														
Canada	79	—	79	2,725	3,252	—	—	79	—	79	4,131	8,498	—	—
United States	—	—	—	—	—	—	—	1	—	1	10	10	—	—
Totals	79	—	79	2,725	3,252	—	—	80	—	80	4,141	8,508	—	—
Grand totals	154	15	169	32,770	47,951	42,189	—	210	3	213	84,997	125,213	10,819	—
Non toll traffic included	136	—	136	8,676	9,949	—	—	143	—	143	8,454	16,404	—	—

TABLE 47A. Cargo Tons Carried through the St. Lawrence and/or Welland Canals, Unloaded and Loaded at Canadian Ports¹

Port	Unloaded			Loaded			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
Fort William-Port Arthur	254,559	15,776	270,335	7,642,929	3,915	7,646,844	7,897,488	19,691	7,917,179
Other Canadian Lake Superior ports	13,250	148	13,398	106,272	8,654	114,926	119,522	8,802	128,324
Canadian Lake Huron ports	79,834	1,638	81,472	176,839	5,792	182,631	256,673	7,430	264,103
Other Georgian Bay ports	17,466	—	17,466	9,592	—	9,592	27,058	—	27,058
Samia	126,341	737	127,078	399,585	50,201	449,786	525,926	50,938	576,864
Windsor	154,500	731	155,231	73,668	3,464	77,132	228,168	4,195	232,363
Canadian St. Clair Lake and river and Detroit river ports	6,223	—	6,223	89,801	693	90,494	96,024	693	96,717
Port Colborne	139,741	—	139,741	907,662	61	907,723	1,047,403	61	1,047,464
Canadian Lake Erie ports	103,230	189	103,419	68,050	921	68,971	171,280	1,110	172,390
Thorold	537,932	543	538,475	30,466	261,635	292,101	568,398	262,178	830,578
Port Weller	83,704	45	83,749	3,313	—	3,313	87,017	45	87,062
Other Canadian Welland Canal ports	430,962	6,592	437,554	471,867	3,055	474,922	902,829	9,647	912,476
Hamilton	7,993,154	66,536	8,059,690	412,495	117,468	529,963	8,405,649	164,004	8,589,653
Port Credit	136,442	—	136,442	194,271	—	194,271	330,713	—	330,713
Toronto	3,354,542	297,714	3,652,256	399,248	67,125	466,373	3,753,790	364,839	4,118,629
Picton	863	—	863	340,482	—	340,482	341,345	—	341,345
Kingston	286,412	563	286,975	171,339	4,482	175,821	457,751	5,045	462,796
Prescott	813,246	—	813,246	577,158	—	577,158	1,390,404	—	1,390,404
Cornwall	181,353	—	181,353	—	—	—	181,353	—	181,353
Other Canadian Lake Ontario ports and St. Lawrence river to Iroquois	712,176	4,398	716,574	348,041	—	348,041	1,060,217	4,398	1,064,615
Canadian St. Lawrence canal ports	36,096	—	36,096	11,181	—	11,181	47,257	—	47,257
Lachine canal ¹	589,660	3,250	592,910	2,989	—	2,989	592,649	3,250	595,899
Montreal	4,788,869	10	4,788,899	1,862,565	2,212	1,864,777	6,651,454	2,222	6,653,676
Contrecoeur	75,213	—	75,213	408,130	—	408,130	483,343	—	483,343
Sorel	806,126	—	806,126	105,984	9,008	114,992	912,112	9,008	921,120
Three Rivers	1,294,661	—	1,294,661	13,494	61,774	95,268	1,308,155	61,774	1,389,929
Sept Iles	50,685	—	50,685	5,163,908	—	5,163,908	5,214,593	—	5,214,593
Other Canadian St. Lawrence river ports East of Montreal	4,031,025	324	4,031,349	2,803,446	170,466	2,973,912	6,834,471	170,790	7,005,261
Halifax	218,304	—	218,304	—	—	—	218,304	—	218,304
Saint John	1,358	—	1,358	—	—	—	1,358	—	1,358
Other Canadian Atlantic Coast and Gulf of St. Lawrence ports	33,455	188	33,643	256,116	64,251	320,367	289,571	64,439	354,010
Ottawa river ports	221	—	221	—	—	—	221	—	221
Totals	27,351,625	399,382	27,751,007	23,050,871	855,177	23,906,048	50,402,496	1,254,559	51,657,055

TABLE 47B. Cargo Tons Carried through the St. Lawrence and/or Welland Canals, Unloaded and Loaded at United States Ports¹

Port	Unloaded			Loaded			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
Duluth	14,997	26,284	41,281	2,362,149	79,512	2,461,661	2,397,146	105,796	2,502,942
Superior	—	—	—	1,066,695	—	1,066,695	1,066,695	—	1,066,695
Other United States Lake Superior ports	—	—	—	3,584,129	—	3,584,129	3,584,129	—	3,584,129
Chicago	841,921	668,650	1,510,571	2,549,983	203,263	2,753,246	3,391,904	871,913	4,263,817
Milwaukee	10,139	61,414	71,553	329,998	84,444	414,442	340,137	145,858	485,995
Other United States Lake Michigan ports	693,594	38,534	732,128	174,517	81,166	255,683	868,111	119,700	987,811
United States Lake Huron Ports	16,506	4,231	20,737	316,097	53,523	369,620	332,603	57,754	390,357
Detroit	766,536	366,402	1,132,938	447,977	181,370	629,347	1,214,513	547,772	1,762,285
Other United States St. Clair Lake and river and Detroit river ports	209,284	454	209,738	106,329	593	106,922	315,613	1,047	316,660
Ashtabula	976,181	34,698	1,010,879	2,321,894	624	2,322,518	3,298,075	35,322	3,333,397
Buffalo	1,214,223	22,272	1,236,495	125,818	4,263	130,081	1,340,041	26,535	1,366,576
Cleveland	3,371,990	220,923	3,592,913	62,684	54,680	117,364	3,434,674	275,603	3,710,277
Conneaut	1,125,403	—	1,125,403	395,934	—	395,934	1,521,337	—	1,521,337
Erie	63,935	2,285	66,220	264,071	7,146	271,217	328,006	9,431	337,437
Lackawanna	216,757	—	216,757	3,029	—	3,029	219,786	—	219,786
Lorain	99,468	—	99,468	26,381	—	26,381	125,849	—	125,849
Sandusky	—	—	—	452,125	—	452,125	452,125	—	452,125
Toledo	467,509	75,571	543,080	3,359,669	54,419	3,414,088	3,827,178	129,990	3,957,188
Other United States Lake Erie ports	310,942	651	311,593	253,681	—	253,681	564,623	651	565,274
Oswego	190,322	5,049	195,371	66,893	—	66,893	257,215	5,049	262,264
Rochester	6,356	21,756	28,112	7,059	5,116	12,175	13,415	26,872	40,287
Other United States Lake Ontario and St. Lawrence river to Ogdensburg	193,762	—	193,762	39,647	7,691	47,338	233,429	7,691	241,120
United States St. Lawrence canal ports	139,900	—	139,900	4,718	—	4,718	144,618	—	144,618
United States Atlantic and Gulf of Mexico ports	91,905	3,023	94,928	364,439	22,157	386,596	456,344	25,180	481,524
United States Hudson river ports	126,630	—	126,630	67,390	—	67,390	194,020	—	194,020
United States Pacific Coast ports	—	1,163	1,163	572	8,093	8,665	572	9,256	9,828
Totals	11,148,280	1,553,360	12,701,640	18,773,878	848,060	19,621,938	29,922,158	2,401,420	32,323,578
Grand totals	38,499,905	1,952,742	40,452,647	41,824,749	1,703,237	43,527,986	80,324,654	3,655,979	83,980,633

¹ Non toll traffic excluded.

TABLE 48. Cargo Tons Carried through the Sault Ste. Marie Canal only, unloaded and loaded at Canadian and United States Ports

Port	Unloaded			Loaded			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
In Canada:									
Fort William-Port Arthur	88,949	8	88,957	131,786	58,320	190,106	220,735	58,328	279,063
Other Canadian Lake Superior ports	48,148	167	48,315	256,339	56,115	312,454	304,487	56,282	360,769
Canadian Lake Huron ports	106,051	—	106,051	11,458	—	11,458	117,509	—	117,509
Midland	2,002	—	2,002	—	—	—	2,002	—	2,002
Other Georgian Bay ports	68,659	—	68,659	1,936	—	1,936	70,595	—	70,595
Samia	3,908	—	3,908	91,987	—	91,987	95,895	—	95,895
Windsor	55,212	—	55,212	8,601	4	8,605	63,813	4	63,817
Other Canadian St. Clair Lake and river and Detroit river ports	7,383	—	7,383	1,826	—	1,826	9,209	—	9,209
Port Colborne	10,769	—	10,769	663	—	663	11,432	—	11,432
Other Canadian Lake Erie ports	57	—	57	5,512	—	5,512	5,569	—	5,589
Totals	391,138	175	391,313	510,108	114,439	624,547	901,246	114,614	1,015,860
In United States:									
Superior	4,169	—	4,169	16,984	—	16,984	21,153	—	21,153
Other United States Lake Superior ports	13,824	—	13,824	2,349	—	2,349	16,173	—	16,173
Chicago	2,880	22,060	24,940	16,333	56	16,389	19,213	22,116	41,329
Milwaukee	2,756	48,526	51,282	—	—	—	2,756	48,526	51,282
Other United States Lake Michigan ports	125,950	—	125,950	4,973	—	4,973	130,923	—	130,923
United States Lake Huron ports	4,261	—	4,261	6,305	—	6,305	10,566	—	10,566
Detroit	7,352	36,836	44,188	—	107	107	7,352	38,943	44,295
Buffalo	5,514	—	5,514	—	—	—	5,514	—	5,514
Cleveland	4,704	3,894	8,598	—	—	—	4,704	3,894	8,598
Toledo	—	3,119	3,119	5,496	8	5,504	5,496	3,127	8,623
Totals	171,410	114,435	285,845	52,440	171	52,611	223,850	114,606	338,456
Grand totals	562,548	114,610	677,158	562,548	114,610	677,158	1,125,096	229,220	1,354,316

TABLE 49. Traffic through the Canadian and United States Sault Ste. Marie Canals¹

	Upbound			Downbound			Grand total 1963	Grand total 1962
	Canadian canal	United States Canal ²	Total	Canadian canal	United States Canal ²	Total		
Vessel passages	999	6,957	7,956	2,051	5,922	7,973	15,929	16,179
Passengers	11,672	121,127	132,799	130,991	8,873	139,864	272,683	275,836
Cargo tons								
Paper and woodpulp	—	—	—	156,042	136,546	292,588	292,588	289,296
Pulpwood, lumber and logs	2,963	150	3,113	7,012	148,374	155,386	158,499	202,250
Wheat	—	13,191	13,191	16,970	10,028,248	10,045,218	10,058,409	7,576,752
Barley	—	—	—	32,564	1,725,173	1,757,737	1,757,737	1,533,723
Oats	—	—	—	13,342	896,678	910,020	910,020	786,397
Corn	—	13,423	13,423	—	774,212	774,212	787,635	705,699
Rye	—	—	—	—	331,208	331,208	331,208	425,920
Flaxseed	—	—	—	—	334,271	334,271	334,271	410,191
Flour	—	5,686	5,686	—	86,064	86,064	91,750	91,582
Other grain and mill products	—	12,856	12,856	92,812	500,427	593,239	606,095	417,193
Iron ore	—	24,181	24,181	—	58,544,889	58,544,889	58,569,070	57,018,434
Manufactured iron and steel	1,540	188,205	189,745	116,002	262,555	378,557	568,302	573,750
Pig iron	609	3,134	3,743	—	187,493	187,493	191,236	245,095
Scrap iron	—	29,734	29,734	4,704	152,519	157,223	186,957	137,808
Sand, gravel and stone	6,305	1,405,917	1,412,222	92,655	—	92,655	1,504,877	1,473,114
Fuel oil	57,312	564,501	621,813	7,574	45,478	53,052	674,865	567,208
Other petroleum products	—	—	—	7,565	—	7,565	7,565	31,152
Gasoline	53,012	136,908	189,920	—	—	—	181,856	231,224
Cement	2,524	198,236	200,760	19,333	62,603	81,936	200,760	231,591
Coal, bituminous	8,517	7,369,132	7,377,649	—	—	—	7,377,649	6,626,680
Coal, anthracite	—	52,798	52,798	—	—	—	52,798	64,493
Coke	—	4,030	4,030	—	—	—	4,030	22,325
Salt	10,900	—	10,900	—	—	—	10,900	15,025
Autos, trucks and parts	—	2,767	2,767	—	125	125	2,892	3,010
Other freight	57,032	650,979	708,011	42,716	358,605	401,321	1,109,332	710,448
Totals	200,714	10,675,828	10,876,542	609,291	74,575,468	75,184,759	86,061,301	80,390,362

¹ Data on United States traffic obtained from United States Corps of Engineers' preliminary "Statistical Report of Lake Commerce" for Sault Ste. Marie Canal for the season of navigation.

² Sault Ste. Marie, U.S. locks are: (1) Poe Lock—Length 1,200 ft., width 110 ft., depth 32.0 ft.
 (2) Davis Lock—Length 1,350 ft., width 80 ft., depth 23.1 ft.
 (3) Sabin Lock—Length 1,350 ft., width 80 ft., depth 23.1 ft.
 (4) MacArthur Lock—Length 800 ft., width 80 ft., depth 31.0 ft.

TABLE 50. Cargo Tons Carried in Interlake Traffic¹

From lake or area	To							Totals
	Lake Superior	Lake Michigan	Lake Huron	Lake Erie ²	Lake Ontario ³	St. Lawrence river	Beyond the Gulf of St. Lawrence ⁴	
	tons							
Lake Superior .....	...	20,033,694 ⁵	1,964,232 ⁵	38,267,304 ⁵	5,736,483	6,699,877	2,353,012	75,054,602
Lake Michigan	1,098,908 ⁵	...	...	...	583,055	1,396,744	1,406,285	...
Lake Huron	2,089,273 ⁵	...	...	...	206,387	218,165	133,856	...
Lake Erie ²	7,220,949 ⁵	...	...	...	5,617,974	2,273,441	1,063,541	...
Lake Ontario ³	244,819	157,447	92,407	1,020,765	...	1,148,352	698,126	3,361,916
St. Lawrence river	23,442	1,497,982	6,577	7,180,871	1,714,771	...	14,193	10,437,836
Beyond the Gulf of St. Lawrence ⁴	57,241	658,728	6,347	928,242	1,236,989	35,015	...	2,922,562
Totals	10,734,632	..	..	..	15,095,659	11,771,594	5,669,013	..

¹ "Way" traffic on the St. Lawrence and Welland Ship canals which originates and terminates within the same canal is excluded from this table.

² Canadian data includes Canadian and United States Detroit river ports and Lake St. Clair and St. Clair river ports.

³ Canadian data includes Welland Ship Canal ports and St. Lawrence river ports to Iroquois.

⁴ Includes traffic using Lachine canal only but excludes traffic moving via the New York State Barge Canal.

⁵ Data obtained from United States Corps of Engineers' preliminary report of "Interlake Traffic".

TABLE 51. Cargoes Carried through St. Lawrence Seaway Canal Networks excluding Duplications¹

Canal network	Corn	Wheat	Iron ore	Iron and steel scrap	Bituminous coal	Newsprint	Fuel oil	All other freight	1963 Total	1962 Total
	tons									
Upbound:										
St. Lawrence and Ottawa	—	—	—	—	—	—	—	1,957	1,957	—
St. Lawrence only	—	—	127,048	2,594	472,619	15,392	1,073,187	1,172,376	2,863,218	1,398,518
St. Lawrence and Welland	—	—	7,926,297	—	41,570	294,372	206,695	2,211,673	10,680,607	8,279,885
St. Lawrence, Welland and Sault Ste. Marie ²	—	—	—	—	—	—	—	8,923	8,923	29,354
Welland only	—	—	433,929	6,352	—	149,761	261,168	1,561,990	2,413,200	2,480,576
Welland and Sault Ste. Marie ²	—	—	—	—	—	—	5,863	30,139	36,002	66,496
Sault Ste. Marie only ²	—	—	—	—	8,517	—	50,211	96,537	155,265	261,382
Totals	—	—	8,487,274	8,946	522,706	459,525	1,597,124	5,083,597	16,159,172	12,516,213
Downbound:										
St. Lawrence and Ottawa	—	—	—	—	—	—	—	—	—	—
St. Lawrence only	4,200	750,254	—	111,607	89,569	781	8,066	819,540	1,784,017	1,997,907
St. Lawrence and Welland	2,667,022	6,504,006	75,213	230,659	363,885	5,225	54,577	5,705,817	15,606,404	12,690,998
St. Lawrence, Welland and Sault Ste. Marie ²	—	—	—	—	—	—	—	63,573	63,573	98,289
Welland only	262,156	1,205,365	4,224,076	83,054	4,614,318	—	367,015	1,665,654	12,421,638	11,715,452
Welland and Sault Ste. Marie ²	—	—	—	—	—	—	—	22,587	22,587	41,799
Sault Ste. Marie only ²	—	16,970	—	4,704	—	51,307	6,336	442,576	521,893	609,693
Totals	2,933,378	8,476,595	4,299,289	430,024	5,067,772	57,313	435,994	8,719,747	30,420,112	27,154,138

¹ Includes traffic using Lachine canal.

² Traffic through United States locks at Sault Ste. Marie is not considered in eliminating duplications.

TABLE 52. Passengers Carried through St. Lawrence Seaway Canals by Origin and Destination of Vessel

	Upbound							
	Canada to		United States to		Other countries to		Total to	
	Canada	United States	Canada	United States	Canada	United States	Canada	United States
	number							
St. Lawrence section	73	654	—	1,996	256	110	329	2,760
Welland section	26	655	—	—	—	113	26	766
Sault Ste. Marie section	3,499	102	4,189	5,686	—	—	7,688	5,788
Totals	3,598	1,411	4,189	7,682	256	223	8,043	9,316
	Downbound							
	Canada to			United States to			Total to	
	Canada	United States	Other countries	Canada	United States	Other countries	Canada	United States
	number							
St. Lawrence section	75	—	109	704	2,743	113	779	2,743
Welland section	—	—	12	712	—	113	712	—
Sault Ste. Marie section	5,191	83,104	—	9,564	33,132	—	14,755	116,236
Totals	5,266	83,104	121	10,980	35,875	226	16,246	118,979

TABLE 53. Water Freight Charges on the Great Lakes for Wheat, 1963 and 1962

Port Willam-Port Arthur to	1963			1962		
	Average charge per bushel ¹	Average charge per ton	Average charge per ton-mile	Average charge per bushel ¹	Average charge per ton	Average charge per ton-mile
	cents	\$	cents	cents	\$	cents
Montreal:						
April	10.00	3.33	0.271	—	—	—
May	10.00	3.33	0.271	13.00	4.33	0.353
June	10.18	3.39	0.276	13.00	4.33	0.353
July	10.00	3.33	0.271	12.72	4.24	0.345
August	9.89	3.30	0.269	12.05	4.02	0.327
September	9.22	3.07	0.250	10.68	3.56	0.290
October	9.17	3.06	0.249	10.25	3.42	0.279
November	9.11	3.04	0.248	10.24	3.41	0.278
December	9.03	3.01	0.245	10.25	3.42	0.279
Averages	9.45	3.15	0.257	11.56	3.85	0.314
Winter storage	16.38	5.46	0.445	14.11	4.70	0.383
Goderich and Georgian Bay ports:						
April	4.27	1.42	0.264	—	—	—
May	4.39	1.46	0.272	5.00	1.67	0.310
June	4.03	1.34	0.250	5.00	1.67	0.310
July	4.03	1.34	0.250	4.95	1.65	0.307
August	4.06	1.35	0.251	4.05	1.35	0.251
September	4.13	1.38	0.257	4.02	1.34	0.249
October	4.11	1.37	0.255	3.59	1.20	0.223
November	4.07	1.36	0.253	3.62	1.21	0.225
December	5.00	1.67	0.310	4.12	1.37	0.255
Averages	4.26	1.42	0.264	3.83	1.28	0.238
Winter storage	9.42	3.14	0.584	8.14	2.71	0.504
Port Colborne:						
April	5.50	1.83	0.216	—	—	—
May	6.92	2.31	0.272	6.50	2.17	0.258
June	5.29	1.76	0.208	6.50	2.17	0.256
July	5.00	1.67	0.197	6.32	2.11	0.249
August	5.01	1.67	0.197	5.50	1.83	0.216
September	5.01	1.67	0.197	5.50	1.83	0.216
October	5.04	1.68	0.198	5.00	1.67	0.197
November	5.06	1.69	0.199	5.00	1.67	0.197
December	5.17	1.72	0.203	5.61	1.87	0.221
Averages	5.22	1.74	0.205	5.48	1.83	0.216
Winter storage	10.38	3.46	0.408	10.00	3.33	0.393
Buffalo:						
April	—	—	—	—	—	—
May	7.00	2.33	0.270	8.00	2.67	0.310
June	—	—	—	8.00	2.67	0.310
July	—	—	—	—	—	—
August	—	—	—	—	—	—
September	—	—	—	—	—	—
October	—	—	—	—	—	—
November	—	—	—	—	—	—
December	—	—	—	—	—	—
Averages	7.00	2.33	0.270	8.00	2.67	0.310
Winter storage	—	—	—	—	—	—
Port Colborne to Montreal:						
April	5.57	1.86	0.489	7.50	2.50	0.658
May	6.00	2.00	0.526	7.25	2.42	0.637
June	6.00	2.00	0.526	6.76	2.25	0.592
July	6.00	2.00	0.526	6.50	2.17	0.571
August	6.00	2.00	0.526	5.53	1.84	0.484
September	6.00	2.00	0.526	—	—	—
October	6.00	2.00	0.526	6.33	2.11	0.555
November	6.84	2.28	0.600	6.07	2.02	0.532
December	—	—	—	—	—	—
Averages	6.05	2.02	0.532	6.56	2.19	0.576

¹ Freight charges from Fort William-Port Arthur provided by Board of Grain Commissioners for Canada.

TABLE 54. Water Freight Charges on the Great Lakes for Barley and Oats, 1963

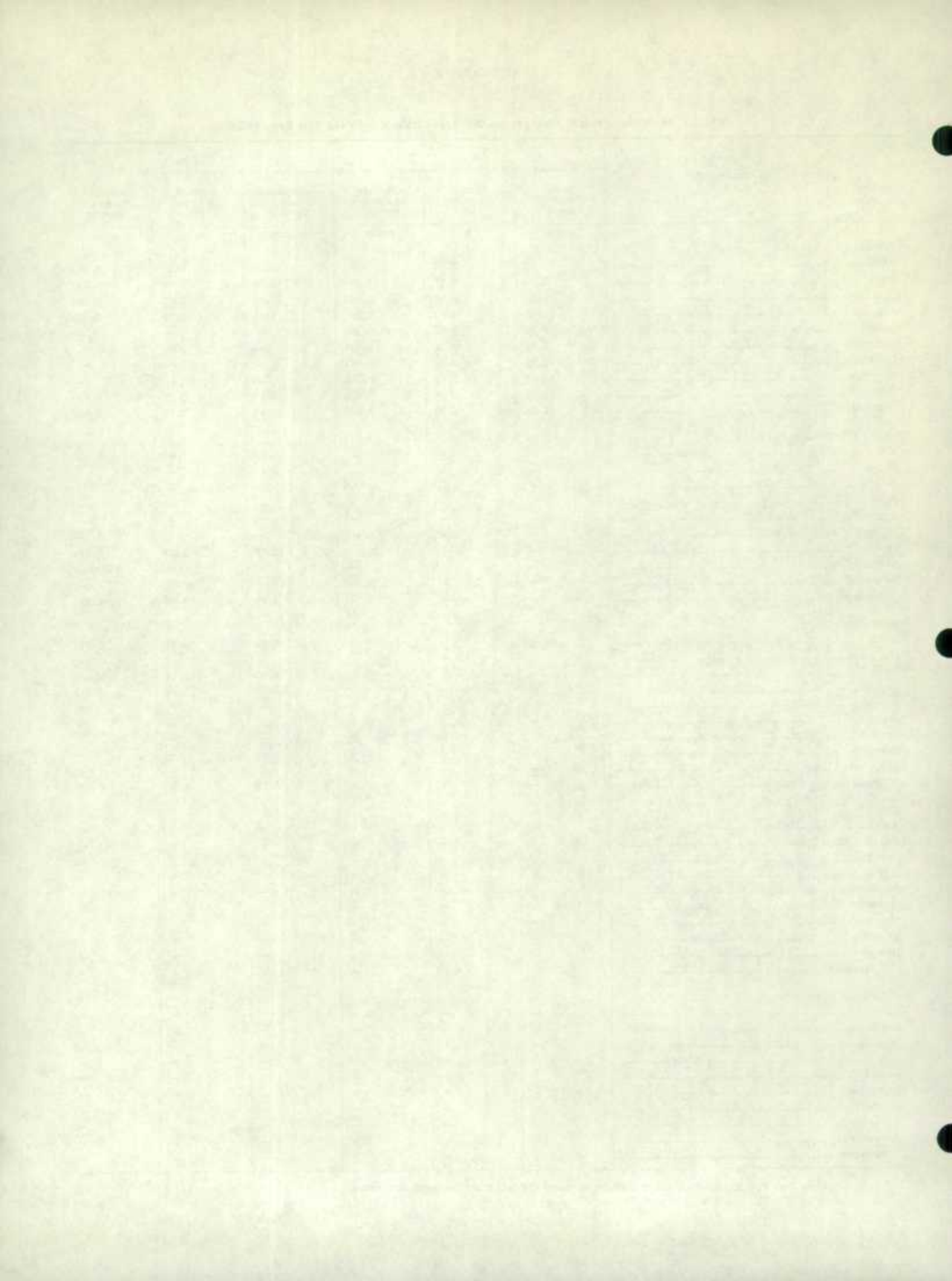
Fort William - Port Arthur to	Barley			Oats		
	Average charge per bushel ¹	Average charge per ton	Average charge per ton-mile	Average charge per bushel ¹	Average charge per ton	Average charge per ton-mile
	cents	\$	cents	cents	\$	cents
Montreal:						
April	9.20	3.83	0.312	8.12	4.78	0.389
May	9.00	3.75	0.305	8.00	4.71	0.384
June	9.15	3.81	0.310	8.00	4.71	0.384
July	9.00	3.75	0.305	7.58	4.46	0.363
August	7.37	3.07	0.250	6.07	3.57	0.291
September	6.97	2.90	0.236	5.61	3.30	0.269
October	7.59	3.16	0.257	6.43	3.78	0.308
November	10.06	4.19	0.341	8.97	5.28	0.430
December	11.80	4.92	0.401	9.53	5.61	0.457
Averages	9.24	3.85	0.314	7.74	4.55	0.371
Goderich and Georgian Bay ports:						
April	3.97	1.65	0.307	3.79	2.23	0.414
May	4.25	1.77	0.329	4.00	2.35	0.437
June	4.05	1.69	0.314	3.94	2.32	0.431
July	4.25	1.77	0.329	3.87	2.28	0.424
August	4.18	1.74	0.323	3.85	2.26	0.420
September	4.07	1.70	0.316	3.74	2.20	0.409
October	4.22	1.76	0.327	4.04	2.38	0.442
November	4.37	1.82	0.338	4.16	2.45	0.455
December	4.54	1.89	0.351	4.28	2.52	0.468
Averages	4.24	1.77	0.329	4.00	2.35	0.437
Port Colborne:						
April	—	—	—	—	—	—
May	6.00	2.50	0.295	5.50	3.24	0.382
June	6.00	2.50	0.295	5.50	3.24	0.382
July	6.00	2.50	0.295	5.50	3.24	0.382
August	6.00	2.50	0.295	—	—	—
September	—	—	—	—	—	—
October	6.25	2.60	0.307	—	—	—
November	6.00	2.50	0.295	5.50	3.24	0.382
December	—	—	—	—	—	—
Averages	6.03	2.51	0.296	5.50	3.24	0.382
Buffalo:						
April	—	—	—	5.50	3.24	0.376
May	—	—	—	—	—	—
June	6.50	2.71	0.314	5.50	3.24	0.376
July	6.50	2.71	0.314	—	—	—
August	6.50	2.71	0.314	—	—	—
September	12.00	5.00	0.580	—	—	—
October	—	—	—	—	—	—
November	—	—	—	—	—	—
December	6.50	2.71	0.314	—	—	—
Averages	6.72	2.80	0.325	5.50	3.24	0.376
Port Colborne to Montreal:						
April	—	—	—	—	—	—
May	—	—	—	—	—	—
June	—	—	—	—	—	—
July	—	—	—	—	—	—
August	—	—	—	—	—	—
September	—	—	—	—	—	—
October	—	—	—	—	—	—
November	—	—	—	—	—	—
December	—	—	—	—	—	—
Averages	—	—	—	—	—	—

¹ Freight charges from Fort William - Port Arthur provided by Board of Grain Commissioners for Canada.

TABLE 55. Water Freight Charges on the Great Lakes for Flax and Rye, 1963

Port William-Port Arthur to	Flax			Rye		
	Average charge per bushel ¹	Average charge per ton	Average charge per ton-mile	Average charge per bushel ¹	Average charge per ton	Average charge per ton-mile
	cents	\$	cents	cents	\$	cents
Montreal:						
April	10.00	3.57	0.291	10.00	3.57	0.291
May	10.00	3.57	0.291	10.00	3.57	0.291
June	10.00	3.57	0.291	10.00	3.57	0.291
July	10.00	3.57	0.291	9.50	3.39	0.276
August	10.00	3.57	0.291	—	—	—
September	9.00	3.21	0.261	—	—	—
October	12.75	4.55	0.371	—	—	—
November	14.35	5.13	0.418	—	—	—
December	15.00	5.36	0.436	15.47	5.53	0.450
Averages	11.76	4.20	0.342	10.61	3.79	0.309
Goderich and Georgian Bay ports:						
April	—	—	—	4.50	1.61	0.299
May	—	—	—	—	—	—
June	—	—	—	—	—	—
July	—	—	—	—	—	—
August	—	—	—	—	—	—
September	—	—	—	—	—	—
October	—	—	—	5.00	1.79	0.333
November	—	—	—	—	—	—
December	—	—	—	—	—	—
Averages	—	—	—	4.85	1.73	0.322
Port Colborne:						
April	—	—	—	5.00	1.79	0.211
May	—	—	—	—	—	—
June	—	—	—	6.00	2.14	0.253
July	—	—	—	5.50	1.96	0.231
August	—	—	—	—	—	—
September	—	—	—	—	—	—
October	—	—	—	—	—	—
November	—	—	—	—	—	—
December	—	—	—	—	—	—
Averages	—	—	—	5.28	1.89	0.223
Buffalo:						
April	—	—	—	—	—	—
May	—	—	—	—	—	—
June	—	—	—	—	—	—
July	—	—	—	—	—	—
August	—	—	—	—	—	—
September	—	—	—	—	—	—
October	—	—	—	—	—	—
November	—	—	—	—	—	—
December	—	—	—	—	—	—
Averages	—	—	—	—	—	—
Port Colborne to Montreal:						
April	—	—	—	—	—	—
May	—	—	—	—	—	—
June	—	—	—	—	—	—
July	—	—	—	—	—	—
August	—	—	—	—	—	—
September	—	—	—	—	—	—
October	—	—	—	—	—	—
November	—	—	—	—	—	—
December	—	—	—	—	—	—
Averages	—	—	—	—	—	—

¹ Freight charges from Fort William-Port Arthur provided by Board of Grain Commissioners for Canada.



SECTION III
OTHER CANADIAN CANALS

SECTION II
GENERAL INSTRUCTIONS

ST. PETER'S CANAL
TABLE 56. Location and Description

	From	To	Length of channel	Locks			
				Number	Minimum dimensions		
					Length	Width	Depth
			miles	feet			
St. Peter's Canal	St. Peter's Bay	Bras d'Or Lakes, N.S.	0.50	1	300	47.4	17

TABLE 57. Historical Summary, 1954 - 63

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Vessel transit—Up	274	373	209	244	198	198	275	273	238	185
Down	296	411	221	231	199	184	280	274	217	168
Totals	570	784	430	475	397	382	555	547	455	353
Registered net tons—Up	7,433	11,712	5,712	8,300	4,973	4,173	8,136	4,938	5,208	7,474
Down	7,192	15,612	5,232	6,938	5,091	4,377	7,693	5,745	4,949	4,423
Totals	14,625	27,324	10,944	15,238	10,064	8,550	15,831	10,683	10,157	11,897
Cargo tons—Up	1,594	1,901	727	1,389	863	262	142	861	271	214
Down	1,637	4,882	973	3,252	848	557	581	605	660	380
Totals	3,231	6,783	1,700	4,641	1,711	819	723	1,466	931	574
Season of navigation:										
First vessel passage	April 10	April 2	April 19	April 22	March 31	April 20	April 4	April 27	April 4	May 1
Last vessel passage	Jan, 10/55	Jan, 12/56	Dec. 21	Dec. 28	Dec. 19	Dec. 31	Dec. 22	Dec. 18	Dec. 5	Dec. 12

TABLE 58. Traffic on the St. Peter's Canal by Kind and Registry of Vessel, 1963

Kind of vessel and registry	Upbound							Downbound						
	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel:														
Canada	7	1	8	3,717	4,953	30	—	10	2	12	525	664	80	—
Other countries	—	1	1	327	542	120	4	—	—	—	—	—	—	—
Totals	7	2	9	4,044	5,495	150	4	10	2	12	525	664	80	—
Pleasure craft:														
Canada	6	—	6	164	220	—	5	5	—	5	94	118	—	—
United States	5	—	5	102	122	—	—	3	—	3	97	102	—	3
Totals	11	—	11	266	342	—	5	8	—	8	191	220	—	3
All other types:														
Canada	159	4	163	3,148	4,733	64	—	102	44	146	3,691	5,368	280	—
United States	1	—	1	12	12	—	—	2	—	2	16	16	—	—
United Kingdom	1	—	1	4	12	—	—	—	—	—	—	—	—	—
Totals	161	4	165	3,164	4,757	64	—	104	44	148	3,707	5,384	280	—
Grand totals	170	6	185	7,474	10,594	214	9	122	46	168	4,423	6,268	360	3

TABLE 59. Number and Tonnage of Vessels Using the St. Peter's Canal by Origin and Destination, Registry and Rig, 1963

Origin and destination	Country of registry	Steam			Motor			Other			Total		
		Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Upbound:													
Canada to Canada	Canada	2	252	570	173	6,702	9,261	2	75	75	177	7,029	9,906
	United States	—	—	—	1	4	4	—	—	—	1	4	4
	Other countries	—	—	—	1	327	542	—	—	—	1	327	542
Canada to United States	United States	—	—	—	1	42	62	—	—	—	1	42	62
Canada to United Kingdom	United Kingdom	—	—	—	1	4	12	—	—	—	1	4	12
United States to Canada	United States	—	—	—	4	68	68	—	—	—	4	68	68
	Totals	2	252	570	181	7,147	9,949	2	75	75	185	7,474	10,594
Downbound:													
Canada to Canada	Canada	4	504	1,140	154	3,526	4,730	5	280	280	163	4,310	6,150
	United States	—	—	—	1	7	7	—	—	—	1	7	7
Canada to United States	United States	—	—	—	4	106	111	—	—	—	4	106	111
	Totals	4	504	1,140	159	3,639	4,848	5	280	280	168	4,423	6,268
	Grand totals	6	756	1,710	340	10,786	14,797	7	355	355	353	11,897	16,862

TABLE 60. Commodities and Passengers Carried through the St. Peter's Canal by Country of Loading and Unloading, 1963

Commodity	Canada to Canada		Canada to United States		United States to Canada		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
	tons							
Live animals	120	—	—	—	—	—	120	—
Fish and marine animals	34	326	—	—	—	—	34	326
Miscellaneous freight, r. e. s.	60	34	—	—	—	—	60	34
Totals	214	360	—	—	—	—	214	360
Passengers	9	3	—	—	—	—	9	3

CANSO CANAL

TABLE 61. Location and Description

	Length of channel	Locks			
		Number	Minimum dimensions		
			Length	Width	Depth
Canso canal through the Cape Breton end of the Canso Causeway at Port Hastings, N.S.	miles 0.78	1	feet 820	feet 80	feet 32

TABLE 62. Historical Summary, 1957-63

	1957	1958	1959	1960	1961	1962	1963
Vessel transit—Up	660	616	625	609	589	574	518
Down	611	626	621	619	591	585	562
Totals	1,271	1,242	1,246	1,228	1,180	1,139	1,080
Registered net tons—Up	224,920	274,703	346,793	374,478	346,282	488,870	543,376
Down	186,507	262,409	284,839	389,968	352,542	485,477	557,696
Totals	411,427	537,112	631,632	764,446	698,824	974,347	1,101,072
Cargo tons—Up	233,908	364,044	476,318	606,339	495,540	747,530	744,342
Down	161,887	162,582	198,188	197,037	206,857	363,112	460,194
Totals	395,795	526,606	674,506	803,376	702,397	1,110,642	1,204,536
Season of navigation:							
First vessel passage	Jan. 2	March 14	April 17	April 17	May 12	April 16	April 17
Last vessel passage	Dec. 31	Dec. 25	Dec. 31	Jan. 16/61	Dec. 31	Feb. 9/63	Dec. 27

TABLE 65. Commodities and Passengers Carried through the Canso Canal by Country of Loading and Unloading, 1963

Commodity	Canada to Canada		Canada to United States		Canada to other countries		United States to Canada		United States to other countries		Other countries to Canada		Total	
	Up-bound	Down-bound	Up-bound	Down-bound	Up-bound	Down-bound	Up-bound	Down-bound	Up-bound	Down-bound	Up-bound	Down-bound	Up-bound	Down-bound
	tons													
Fish and marine animals	280	5,186	—	7,168	—	—	—	—	—	—	—	—	280	12,354
Barley	1,200	6,484	—	—	—	—	—	—	—	—	—	—	1,200	6,484
Corn	2,488	1,140	—	—	—	—	—	5,765	—	—	—	—	2,488	6,905
Oats	1,444	1,547	—	—	—	—	—	—	—	—	—	—	1,444	1,547
Wheat	2,666	119,216	—	—	—	—	—	—	—	—	—	—	2,666	119,216
Malt	—	1,209	—	—	—	—	—	—	—	—	—	—	—	1,209
Wheat flour	2,200	5,602	—	—	—	—	—	—	—	—	—	—	2,200	5,602
Potatoes	—	258	—	6,794	—	1,758	—	—	—	—	—	—	—	8,810
Food, feed, beverages and tobacco, n.e.s.	300	825	—	25	—	—	—	1,675	—	—	—	—	330	2,525
Pulpwood	2,597	2,859	7,606	2,200	—	22,370	—	—	—	—	—	—	10,203	27,429
Coal, bituminous	1,611	—	—	—	—	—	—	—	—	—	—	—	1,611	—
Gypsum	124,069	—	—	—	—	—	—	—	—	—	—	—	124,069	—
Salt	625	2	—	75,274	—	—	—	—	—	—	535	—	1,160	75,276
Sulphur	—	—	—	—	—	—	—	9,825	—	—	—	—	9,825	—
Crude materials, inedible, n.e.s.	—	—	1,000	1,000	—	2,500	—	—	—	—	250	—	1,250	3,500
Lumber and round timber	1,390	—	—	—	3,970	4,233	—	—	—	—	—	—	5,360	4,233
Woodpulp	—	—	1,045	2,174	—	—	—	—	—	—	—	—	1,045	2,174
Newsprint paper	—	—	—	4,700	—	—	—	—	—	—	—	—	—	4,700
Fertilizers	—	—	—	—	—	—	—	7,566	—	—	—	—	7,566	—
Gasoline	188,928	60,847	—	—	—	—	—	—	—	—	—	—	188,928	60,847
Fuel oil	374,343	33,648	—	—	—	—	—	—	—	—	—	—	374,343	33,648
Petroleum and coal products, n.e.s.	—	2,150	—	—	—	—	—	—	—	—	—	—	—	2,150
Pig iron	—	—	—	—	—	6,272	—	—	—	—	—	—	—	6,272
Iron and steel, n.e.s.	1,225	—	—	—	—	—	—	—	—	—	2,973	—	4,198	—
Cement	—	57,335	—	—	—	—	—	—	—	—	—	—	—	57,335
Miscellaneous fabricated materials, n.e.s.	20	14	—	2,811	—	—	—	—	—	—	—	—	20	2,625
Miscellaneous freight, n.e.s.	3,263	3,161	—	—	800	9,493	—	—	—	2,699	93	—	4,156	15,353
Totals	708,879	301,483	9,651	101,946	4,770	46,626	17,391	7,440	—	2,699	3,851	—	744,342	460,194
Passengers	No.	—	—	—	—	—	—	—	—	—	—	—	—	—

RICHELIEU RIVER CANAL

TABLE 66. Location and Description

	From	To	Length of channel	Locks				
				Number	Minimum dimensions			
					Length	Width	Depth	
			miles		feet			
Richelieu river canals:								
St. Ours		St. Ours, Que.	0.12	1	339	45	12	
Chambly	Chambly	St. Jean, Que.	11.76	9	125.11	23.3	6.5	

TABLE 67. Historical Summary, 1964-63

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Vessel transits — Up	356	354	401	379	343	415	395	370	359	387
— Down	353	347	307	382	345	407	401	361	353	369
Totals	709	701	708	761	688	822	796	731	712	756
Registered net tons — Up	55,644	50,241	56,166	61,634	54,390	60,918	62,038	56,038	52,684	51,181
Down	55,919	49,767	45,484	61,606	54,563	61,664	61,991	53,867	51,964	49,865
Totals	111,563	100,008	101,650	123,240	108,953	122,582	124,027	109,905	104,648	101,046
Cargo tons — Up	85,165	70,661	76,613	85,429	81,557	78,758	81,364	80,822	80,925	62,212
Down	24,273	26,449	22,350	26,937	26,574	30,244	25,335	13,707	7,222	6,332
Totals	109,438	97,130	98,963	112,366	108,131	109,002	106,699	94,529	88,147	68,544
Season of navigation:										
First vessel passage	April 17	April 23	April 16	April 17	April 17	April 15	April 4	April 20	April 20	April 20
Last vessel passage	Dec. 2	Dec. 1	Nov. 30	Dec. 1	Nov. 29	Dec. 5	Nov. 27	Dec. 2	Nov. 29	Dec. 1

OTTAWA RIVER CANALS
TABLE 71. Location and Description

		Length of channel	Locks			
			Number	Minimum dimensions		
				Length	Width	Depth
		miles	feet			
Ottawa river canals:						
St. Anne.....	Junction of St. Lawrence and Ottawa river..	0.62	1	200	45	9
Carillon.....	Carillon Rapids, Ottawa river.....	0.94	2	200	45	9
Grenville.....	Long Sault Rapids, Ottawa river.....	5.94	5	200	45	9

TABLE 72. Historical Summary, 1954 - 63

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Vessel transits—Up	461	477	779	804	466	846	667	489	18	197
Down	465	475	779	806	462	821	683	486	18	186
Totals	926	952	1,558	1,610	928	1,667	1,350	975	36	383
Registered net tons—Up	111,346	117,699	166,152	209,889	116,191	201,781	161,979	120,679	2,576	15,720
Down	111,994	117,955	166,530	208,853	115,871	196,402	166,089	119,644	2,637	13,054
Totals	223,340	235,654	332,682	418,742	232,062	398,183	328,068	240,323	5,213	28,774
Cargo tons—Up	445	425	—	180	—	43	100	777	150	7,050
Down	190,365	206,100	283,500	356,460	189,980	327,600	278,100	196,200	150	975
Totals	190,810	206,525	283,500	356,640	189,980	327,643	278,200	196,977	300	8,031
Season of navigation:										
First vessel passage.....	April 30	April 26	April 25	April 17	April 23	May 2	May 3	April 24	April 15	April 24
Last vessel passage.....	Oct. 14	Nov. 1	Nov. 23	Nov. 30	Nov. 26	Nov. 19	Nov. 19	Nov. 10	Nov. 16	Dec. 1

TABLE 73. Traffic on the Ottawa River Canals by Kind and Registry of Vessel, 1963

Kind of vessel	Country of registry	Upbound							Downbound						
		Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
		In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel	Canada.....	23	30	53	10,734	12,336	7,020	2	31	12	43	8,227	8,250	976	—
Pleasure craft	Canada.....	43	—	43	1,018	1,406	—	237	46	—	46	1,058	1,441	—	249
	United States	6	—	6	212	266	—	33	6	—	6	196	261	—	38
	United Kingdom	1	—	1	28	31	—	5	—	—	—	—	—	—	—
	Totals	50	—	50	1,258	1,703	—	275	52	—	52	1,254	1,702	—	287
All other types	Canada.....	92	1	93	3,702	8,170	35	54	91	—	91	3,573	8,127	—	79
	Other countries	1	—	1	26	36	—	—	—	—	—	—	—	—	—
	Totals	93	1	94	3,728	8,206	35	54	91	—	91	3,573	8,127	—	79
	Grand totals ..	166	31	197	15,720	22,245	7,055	331	174	12	186	13,054	18,079	976	366

TABLE 74. Number and Tonnage of Vessels using the Ottawa River Canals by Origin and Destination, Registry and Rig, 1963

Origin and destination	Country of registry	Motor			Other			Total		
		Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Upbound:										
Canada to Canada	Canada	140	4,899	9,973	48	9,915	11,049	188	14,814	21,022
	United States	2	62	75	—	—	—	2	62	75
	United Kingdom	1	28	31	—	—	—	1	28	31
	Other countries	1	26	36	—	—	—	1	26	36
	Totals		144	5,015	10,115	48	9,915	11,049	192	14,930	21,164
Canada to United States ..	Canada	—	—	—	1	640	890	1	640	890
United States to Canada ..	United States	4	150	191	—	—	—	4	150	191
	Total - Upbound	148	5,165	10,306	49	10,555	11,939	197	15,720	22,245
Downbound:										
Canada to Canada	Canada	136	4,622	9,554	43	8,227	8,250	179	12,849	17,804
	United States	3	96	128	—	—	—	3	96	128
	Totals		139	4,718	9,682	43	8,227	8,250	182	12,945	17,932
Canada to United States ..	Canada	1	9	14	—	—	—	1	9	14
	United States	1	31	46	—	—	—	1	31	46
	Totals		2	40	60	—	—	—	2	40	60
United States to Canada ..	United States	2	69	87	—	—	—	2	69	87
	Total - Downbound	143	4,827	9,829	43	8,227	8,250	186	13,054	18,079
	Grand totals	291	9,992	20,135	92	18,782	20,189	383	28,774	40,324

TABLE 75. Commodities and Passengers Carried through the Ottawa River Canals by Country of Loading and Unloading, 1963

Commodity	Canada to Canada		Total	
	Upbound	Downbound	Upbound	Downbound
	tons			
Structural shapes and sheet piling	5,641	—	5,641	—
Machinery, equipment and parts	1,414	976	1,414	976
Totals	7,055	976	7,055	976
Passengers	No. 331	366	331	366

RIDEAU CANAL

TABLE 76. Location and Description

	From	To	Length of channel	Locks			
				Number	Minimum dimensions		
					Length	Width	Depth
			miles		feet		
Rideau canal	Ottawa	Kingston	123.53	47	134	33	5.5
	Rideau Lake	Perth (Tay Branch)	6.12	2	134	33	5.5

TABLE 77. Historical Summary 1954-63

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Vessel transits—Up	94	72	64	149	32	32	39	35	38	38
Down	86	66	56	145	45	37	55	72	27	31
Totals	180	138	120	294	77	69	94	107	65	69
Registered net tons—Up	4,083	2,308	2,035	5,630	882	1,081	1,497	1,136	1,335	1,170
Down	3,654	2,180	2,006	5,587	1,515	1,262	1,629	1,740	973	1,528
Totals	7,737	4,488	4,041	11,217	2,397	2,343	3,126	2,876	2,308	2,698
Cargo tons—Up	357	248	205	154	37	53	72	—	—	—
Down	1,133	165	194	5,690	39	5	—	—	—	—
Totals	1,490	413	399	5,844	76	58	72	—	—	—
Season of navigation:										
First vessel passage	April 30	May 2	May 1	May 1	May 3	May 9	May 18	May 11	May 7	May 13
Last vessel passage	Nov. 18	Nov. 21	Nov. 20	Nov. 18	Oct. 21	Nov. 2	Nov. 1	Nov. 4	Oct. 31	Oct. 18

TABLE 78. Traffic on the Rideau Canal by Kind and Registry of Vessel, 1963

Kind of vessel	Country of registry	Upbound							Downbound						
		Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
		In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel	Canada	8	—	8	330	330	—	2	8	—	8	873	873	—	—
Pleasure	Canada	15	—	15	325	411	—	42	14	—	14	285	355	—	40
	United States	3	—	3	61	70	—	13	2	—	2	45	60	—	9
	Totals	18	—	18	386	481	—	55	16	—	16	330	415	—	49
All other types	Canada	12	—	12	454	680	—	—	7	—	7	325	399	—	4
	Grand totals	38	—	38	1,170	1,491	—	57	31	—	31	1,528	1,687	—	53

TABLE 79. Number and Tonnage of Vessels Using the Rideau Canal by Origin and Destination, Registry and Rig, 1963

Origin and destination	Country of registry	Steam			Motor			Other			Total		
		Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Upbound:													
Canada to Canada	Canada	—	—	—	25	738	1,027	8	330	330	33	1,068	1,357
	United States	—	—	—	3	81	70	—	—	—	3	61	70
Canada to United States	Canada	1	18	32	1	23	32	—	—	—	2	41	64
	Totals	1	18	32	29	822	1,129	8	330	330	36	1,170	1,491
Downbound:													
Canada to Canada	Canada	—	—	—	19	569	688	8	873	873	27	1,442	1,561
	United States	—	—	—	2	45	60	—	—	—	2	45	60
United States to Canada	Canada	1	18	32	1	23	34	—	—	—	2	41	66
	Totals	1	18	32	22	637	782	6	873	873	31	1,528	1,667
	Grand totals	2	36	64	51	1,459	1,911	16	1,203	1,203	69	2,698	3,178

TABLE 80. Commodities and Passengers Carried through the Rideau Canal by Country of Loading and Unloading, 1963

	No.	Canada to Canada		Total	
		Upbound	Downbound	Upbound	Downbound
Passengers ¹		57	53	57	53

¹ Exclusive of 22,523 passengers on sightseeing pleasure boat cruises and 146,879 passengers carried in pleasure craft.

Note: Freight traffic nil.

MURRAY CANAL

TABLE 81. Location and Description

	From	To	Length of channel	Locks			
				Number	Minimum dimensions		
					Length	Width	Depth
Murray Canal through Isthmus of Murray	Lake Ontario	Bay of Quinte	miles 7.53	—	—	—	feet 8.5

TABLE 82. Historical Summary 1954-63

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Vessel transits — Up	73	39	115	154	152	160	113	98	96	60
Down	31	14	75	78	100	94	61	107	65	88
Totals	104	53	190	232	252	254	184	205	161	128
Registered net tons — Up	34,803	19,464	24,675	38,434	34,009	31,126	17,171	8,407	7,031	2,169
Down	5,234	1,866	1,997	2,569	5,327	5,333	2,012	4,452	5,464	2,134
Totals	40,037	21,330	26,672	41,003	39,336	36,459	19,183	12,859	12,495	4,303
Cargo tons — Up	72	562	—	600	383	90	130	500	350	—
Down	200	105	—	190	—	—	—	322	—	—
Totals	272	667	—	790	383	90	130	822	350	—
Season of navigation:										
First vessel passage	April 10	April 8	May 26	April 13	April 22	April 17	April 19	May 1	April 12	Apr. 16
Last vessel passage	Nov. 15	Nov. 17	Nov. 29	Dec. 8	Dec. 4	Nov. 27	Dec. 1	Nov. 29	Nov. 24	Nov. 30

TABLE 83. Traffic on the Murray Canal by Kind and Registry of Vessel, 1963

Kind of vessel and registry	Upbound							Downbound						
	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel:														
Canada	2	—	2	773	835	—	—	4	—	4	750	750	—	—
Pleasure craft:														
Canada	40	—	40	920	1,223	—	—	40	—	40	845	1,195	—	—
United States	8	—	8	174	244	—	—	13	—	13	231	278	—	—
United Kingdom	2	—	2	70	136	—	—	—	—	—	—	—	—	—
Other countries	1	—	1	33	49	—	—	3	—	3	96	163	—	3
Totals	51	—	51	1,197	1,652	—	—	56	—	56	1,172	1,636	—	—
All other types:														
Canada	7	—	7	199	313	—	—	8	—	8	212	432	—	—
Grand totals	60	—	60	2,169	2,800	—	—	68	—	68	2,134	2,818	—	3

TABLE 84. Number and Tonnage of Vessels Using the Murray Canal by Origin and Destination, Registry and Rig 1963

Origin and destination	Country of registry	Steam			Motor			Other			Total		
		Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Upbound:													
Canada to Canada	Canada	—	—	—	45	1,063	1,472	2	773	835	47	1,836	2,807
	United States	—	—	—	3	67	81	—	—	—	3	67	81
	United Kingdom	—	—	—	2	70	136	—	—	—	2	70	136
	Other countries	—	—	—	1	33	49	—	—	—	1	33	49
Canada to United States	Canada	—	—	—	2	56	64	—	—	—	2	56	64
	United States	—	—	—	2	46	59	—	—	—	2	46	59
United States to Canada	United States	—	—	—	2	20	37	—	—	—	2	20	37
United States to United States	United States	—	—	—	1	41	67	—	—	—	1	41	67
	Totals	—	—	—	58	1,396	1,965	2	773	835	60	2,169	2,800
Downbound:													
Canada to Canada	Canada	—	—	—	46	1,001	1,563	4	750	750	50	1,751	2,313
	United States	—	—	—	1	15	17	—	—	—	1	15	17
	Other countries	—	—	—	3	96	163	—	—	—	3	96	163
Canada to United States	Canada	—	—	—	2	56	64	—	—	—	2	56	64
United States to Canada	United States	—	—	—	11	204	248	—	—	—	11	204	248
United States to United States	United States	—	—	—	1	12	13	—	—	—	1	12	13
	Totals	—	—	—	64	1,384	2,068	4	750	750	68	2,134	2,818
	Grand totals	—	—	—	122	2,780	4,033	6	1,523	1,585	128	4,303	5,618

TABLE 85. Commodities and Passengers Carried through the Murray Canal by Country of Loading and Unloading, 1963

Commodity		Canada to Canada		Canada to United States		Total	
		Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Passengers	No.	4	3	—	—	4	3

Note: Freight traffic nil.

TRENT CANAL
TABLE 86. Location and Description

	From	To	Length of channel miles	Locks			
				Number	Minimum dimensions		
					Length	Width	Depth
					feet		
Trent canal	Trenton	Peterborough Lock	88.74	18	175	33	8
	Peterborough Lock	Swift Rapids	135.71	24	134	33	6
	Swift Rapids	Port Severn	16.00	(Marine railway)	—	—	4
	Port Severn Lock .....	.....	—	1	100	25	6
	Sturgeon Lake	Lindsay (Scugog Branch)	10.00	1	142	33	6
	Lindsay	Port Perry (Scugog Branch)	25.00	—	—	—	4.5

TABLE 87. Historical Summary 1954-63

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Vessel transits—Up	59	30	34	31	43	31	24	15	13	14
Down	71	36	47	41	45	37	23	22	16	17
Totals	130	66	81	72	88	68	47	37	29	31
Registered net tons—Up	771	455	544	480	631	499	318	178	143	163
Down	927	561	785	1,768	4,159	571	333	258	177	259
Totals	1,698	1,016	1,329	2,248	4,790	1,070	651	436	320	422
Cargo tons—Up	45	40	41	11	40	34	17	19	13	13
Down	125	62	248	63	35	49	47	55	58	49
Totals	170	102	289	74	75	83	64	74	71	62
Season of navigation:										
First vessel passage	May 5	May 11	May 25	May 16	May 12	May 15	Jun. 10	May 17	May 15	May 18
Last vessel passage	Nov. 9	Nov. 30	Nov. 30	Oct. 31	Oct. 31	Oct. 22	Nov. 23	Oct. 9	Oct. 11	Oct. 7

TABLE 88. Traffic on the Trent Canal by Kind and Registry of Vessel, 1963

Kind of vessel	Country of registry	Upbound						Downbound							
		Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
		In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel	Canada	1	12	13	144	170	13	24	—	14	14	154	202	49	14
	United Kingdom	—	—	—	—	—	—	—	1	—	1	64	72	—	—
	Totals	1	12	13	144	170	13	24	1	14	15	218	274	49	14
Pleasure craft	Canada	1	—	1	19	22	—	4	2	—	2	41	50	—	4
	Grand totals	2	12	14	163	192	13	28	3	14	17	259	324	49	18

TABLE 89. Number and Tonnage of Vessels Using the Trent Canal by Origin and Destination, Registry and Rig, 1963

Origin and destination	Country of registry	Steam			Motor			Total		
		Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Upbound:										
Canada to Canada	Canada	—	—	—	14	163	192	14	163	192
Downbound:										
Canada to Canada	Canada	—	—	—	17	259	324	17	259	324
Grand totals		—	—	—	31	422	516	31	422	516

TABLE 90. Commodities and Passengers Carried through the Trent Canal by Country of Loading and Unloading, 1963

Commodity	Canada to Canada		United States to Canada		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
	tons					
Gasoline	6	21	—	—	6	21
Fuel oil	7	28	—	—	7	28
Totals	13	49	—	—	13	49
Passengers ¹	No. 28	18	—	—	28	18

¹ Excluding 351,900 passengers carried in small boats.

ST. ANDREW'S CANAL

TABLE 91. Location and Description

		Length of channel	Locks			
			Number	Minimum dimensions		
				Length	Width	Depth
St. Andrew's canal	Red River 15 miles north of Winnipeg, Man.	miles —	1	215	45	17

TABLE 92. Historical Summary 1954-63

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Vessel transits — Up	198	175	179	181	178	200	151	158	101	190
Down	198	178	180	181	178	198	150	167	101	191
Totals	396	353	359	362	356	398	301	325	202	381
Registered net tons — Up	14,085	19,289	15,317	13,950	12,486	12,251	8,296	10,581	5,525	8,681
Down	13,998	19,079	15,321	14,102	12,413	11,811	8,171	11,188	5,564	8,716
Totals	28,083	38,368	30,638	28,052	24,899	24,062	16,467	21,769	11,089	17,397
Cargo tons — Up	2,429	5,678	5,610	2,852	2,642	2,035	1,449	6,783	797	1,429
Down	3,601	2,433	2,472	2,617	2,028	1,898	2,650	1,503	1,494	2,385
Totals	6,030	8,112	8,082	5,469	4,670	3,933	4,099	8,286	2,291	3,814
Season of navigation:										
First vessel passage	May 27	June 30	June 28	May 20	May 13	May 14	June 4	May 21	July 11	May 20
Last vessel passage	Nov. 3	Oct. 31	Nov. 2	Nov. 2	Oct. 31	Oct. 31	Nov. 1	Oct. 27	Nov. 3	Nov. 3

TABLE 93. Traffic on the St. Andrew's Canal by Kind and Registry of Vessel, 1963

Kind of vessel and registry	Upbound							Downbound						
	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel:														
Canada	24	84	108	7,225	10,730	1,429	—	10	98	108	7,225	10,730	2,385	—
Pleasure craft:														
Canada	78	—	78	1,394	1,674	—	360	80	—	80	1,443	1,733	—	387
All other types:														
Canada	4	—	4	62	82	—	—	3	—	3	48	60	—	—
Grand totals	106	84	190	8,681	12,486	1,429	360	93	98	191	8,716	12,523	2,385	387

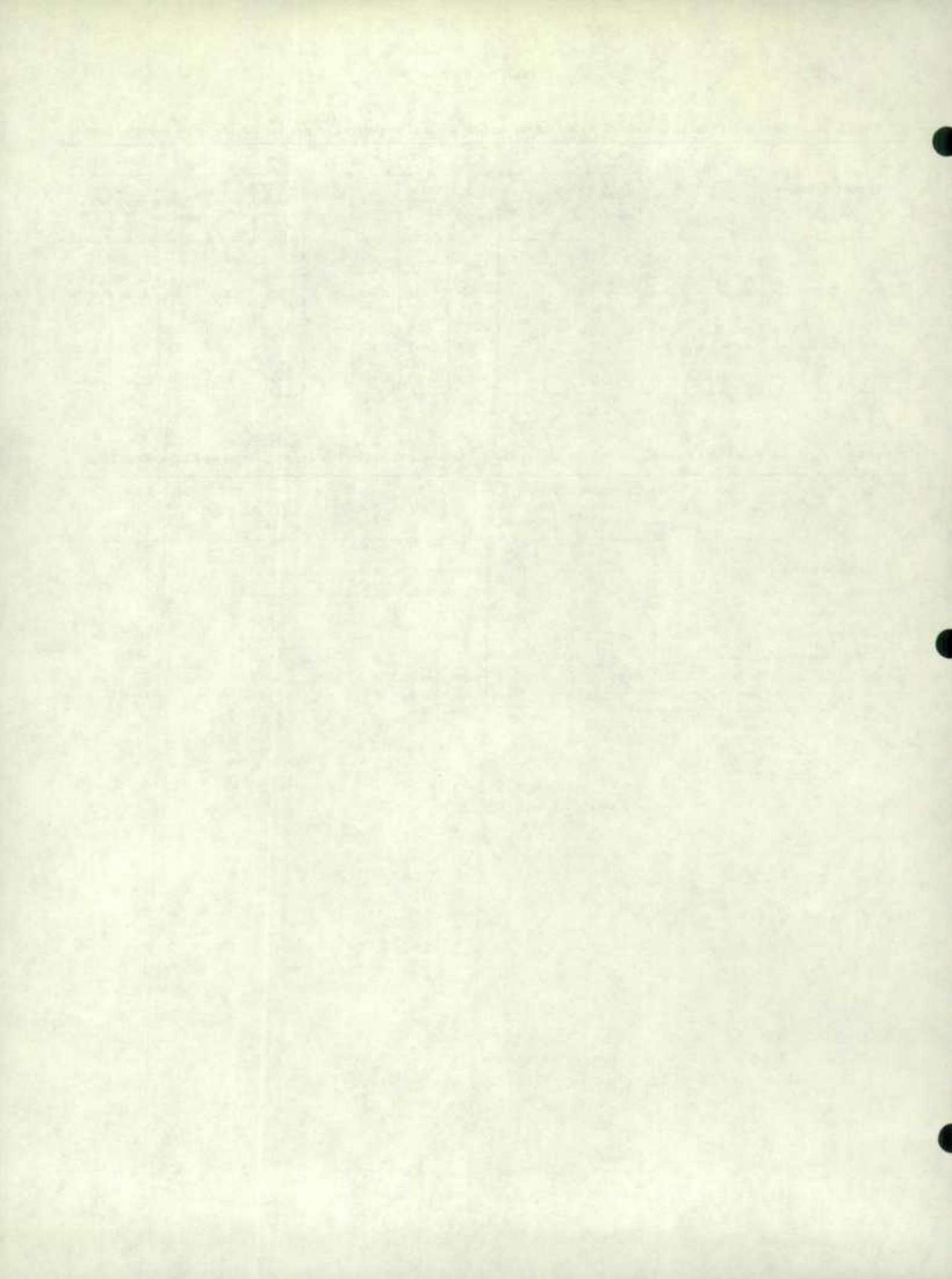
TABLE 94. Number and Tonnage of Vessels Using the St. Andrew's Canal by Origin and Destination, Registry and Rig, 1963

Origin and destination	Country of registry	Steam			Motor			Other			Total		
		Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Upbound:													
Canada to Canada	Canada	—	—	—	189	8,381	12,186	1	300	300	190	8,681	12,486
Downbound:													
Canada to Canada	Canada	—	—	—	190	8,416	12,223	1	300	300	191	8,716	12,523
	Grand totals	—	—	—	379	16,797	24,409	2	600	600	381	17,397	25,009

TABLE 95. Commodities and Passengers Carried through the St. Andrew's Canal by Country of Loading and Unloading, 1963

Commodity	Canada to Canada		Commodity	Canada to Canada	
	Upbound	Downbound		Upbound	Downbound
	tons			tons	
Fish and marine animals	933	18	Containers, returned empty	46	5
Wheat flour	—	172	Miscellaneous freight, n.e.s.	47	200
Food, feed, beverages and tobacco	3	436	Totals	1,429	2,385
Sand and gravel	400	—	Passengers ¹	No.	360
Wood fabricated materials	—	319			387
Gasoline	—	1,235			

¹ Excluding 4,910 passengers carried in small boats.



STATISTICS CANADA LIBRARY
BIBLIOTHÈQUE STATISTIQUE CANADA



1010702881