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## CANAL STATISTICS

1964

DOMINION BUREAU OF STATISTICS



DOMINION BUREAU OF STATISTICS  
Public Finance and Transportation Division  
Transportation Section

## CANAL STATISTICS

1964

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Catalogue number	Title	Price
<b>Periodical</b>		
54-001	<b>Summary of Canal Statistics.</b> Monthly—April to December. (5 pp.) Vessel passages, registered net tonnage, and tonnage of freight for all canals; tonnages of freight transported through the St. Lawrence Canals and Welland Canal, by commodity, by direction, and by type of cargo; tonnages of freight transported through the Sault Ste. Marie Canals by commodity and by direction. December monthly includes a brief summary for the season of navigation .....	10¢, \$1.00 a year
54-002	<b>Shipping Statistics.</b> Monthly. (11 pp.) Cargoes loaded and unloaded, by selected commodities and geographic area; number and registered net tonnage of vessels arrived and departed; cargoes loaded and unloaded at selected ports, by selected commodities .....	20¢, \$2.00 a year
<b>Annual</b>		
54-201	<b>Canal Statistics.</b> (approx. 80 pp.) Location and description of all canals; historical summary; traffic, by kind of vessel, 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; freight charges for wheat, barley, oats, flax, and rye .....	\$1.00
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#### **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.

## INTRODUCTION

This publication presents statistics on vessel movements through the eleven canal systems of Canada.

### Source

The St. Lawrence Seaway Authority, the Department of Transport, and the Department of Public Works assist in the collection of data which appear in ninety-five tables contained in this publication. For each one-way or partial passage through the St. Lawrence Seaway canals, vessel operators are required to submit two copies of a "Transit Declaration Form" to the St. Lawrence Seaway Authority. One copy is forwarded to the Dominion Bureau of Statistics and the second retained for use of the Seaway Authority. For each one-way or partial passage through the Department of Transport canals and the Department of Public Works canal, a "Ship's Report - Canals" is completed, and one copy is submitted to the Dominion Bureau of Statistics.

The assistance of the proprietary crown corporation and the two federal government departments in collecting the reports which contain the basic data required for this publication has continued to be excellent, as has the cooperation of vessel operators in completing these reports.

### Treatment of Data

Of the eleven canal systems included in this publication, three comprise the Canadian portion of the St. Lawrence Seaway. The Seaway is the deep waterway which extends from the Atlantic Ocean to Lake Superior. The Canadian portion of this deep waterway is made up of three sections—the St. Lawrence Canals Section (South Shore Canal, Beauharnois Canal, Iroquois Canal, Lachine Canal, and Cornwall Canal), the Welland Canal section, and the Sault Ste. Marie Canal section. These three canal systems are under the jurisdiction of the St. Lawrence Seaway Authority for operation and maintenance purposes.

Coverage of the canal at Sault Ste. Marie is mainly limited to the one Canadian lock, which constitutes the Sault Ste. Marie Canal section of Seaway. Because this lock is narrower, shallower, and shorter than the four United States locks, almost all of the commodities are transported through the United States locks. For comparison purposes the coverage includes a table based on traffic through both the United States locks and the Canadian lock.

Seven of the canal systems included in this publication are under the jurisdiction of the Department of Transport for operation and maintenance

purposes. They are St. Peter's Canal, the Canso Canal, the Richelieu River Canals, the Ottawa River Canals, the Rideau Canal, the Murray Canal, and the Trent Canal.

The Department of Public Works operates and maintains St. Andrew's Canal, which is one of the eleven canal systems included in this publication.

All commodities which were transported through the canal systems have been grouped according to the "Standard Commodity Classification Manual" published by the Dominion Bureau of Statistics. The original grouping of commodities is based on a list of 217 commodity classes. For the "Summary of Canal Statistics" monthly publication, this list was condensed into approximately seventy commodity classes. Because of space limitations, the commodity list has been further condensed for this annual publication into approximately sixty-five items for the commodity tables for the St. Lawrence and Welland Canals, and into approximately forty-five items for the summary table for all canals. Statistics relating to the original grouping of commodities can be obtained by forwarding a request to the Chief, Transportation Section, Dominion Bureau of Statistics, Ottawa. Appendix A contains the list of commodities into which all freight traffic is originally grouped.

The commodity information in this publication includes the division into "bulk" or "general" of the commodities transported through the sections of the St. Lawrence Seaway on which tolls may be charged (the St. Lawrence Canals section and the Welland Canal section). During 1965 the St. Lawrence Canals (with the exception of the Cornwall Canal) was the only section of the Seaway on which tolls were assessed. Vessels which used the Lachine Canal as part of their use of the canal facilities of the Seaway were required to pay tolls, but vessels which used only the Lachine Canal were not charged tolls. Although the Welland Canal was toll-free during the year, the cargo which was carried through it has been classified as "bulk" or "general", to enable comparison with the commodities transported through the St. Lawrence Canals.

"Bulk" commodities are those which are assessed for St. Lawrence Seaway tolls at the bulk cargo rate. This type of cargo consists of goods that are loose or in a mass, and which generally must be shovelled, pumped, blown, scooped, or forked in their handling. All grains, cement, coke, petroleum, liquids carried in tanks, ores and minerals, pig iron, scrap iron and scrap steel, pulpwood, poles and logs, raw sugar, wood pulp, and "domestic package freight" are assessed at the bulk cargo rate. "General" commodities are those which are not defined as bulk commodities.

"Domestic package freight" consists of packaged unidentifiable commodities, which are transported from an origin in Canada to a destination in Canada.

A vessel is classed as being "in ballast" if it is carrying no cargo when it travels through a canal system.

It should be noted that the statistics in this publication include duplications where vessels pass through two or more canals.

The direction "downbound" for:

St. Peter's Canal, is from the Bras d'Or Lakes to St. Peter's Bay;

Canso Canal, is from George Bay to Port Hastings;

Richelieu River Canals, is from St. Jean to St. Ours;

Ottawa River Canals, is from Grenville to Ste. Anne;

Rideau Canal, is from Kingston to Ottawa;

Murray Canal, is from Lake Ontario to Bay of Quinte (if a vessel has proceeded from the Trent Canal, however, downbound is from Bay of Quinte to Lake Ontario);

Trent Canal, is from Lake Huron to Lake Ontario;

St. Lawrence Seaway, is from Lake Superior to Montreal;

St. Andrew's Canal, is from Winnipeg to Lake Winnipeg.

Contrary to what was stated in the text for the April 1964 "Summary of Canal Statistics" publication, the number of pleasure craft lockages for each canal does not appear in the summary table. This information has been eliminated because analyses of canal system usage by pleasure craft, based on previously-published data, were unreliable due to two facts. Firstly, many pleasure craft used only part of a canal system; secondly, the data for pleasure craft lockages included many duplications, as each pleasure craft was counted each time it passed through a lock station.

Except for the St. Lawrence Canals, the Welland Canal, the Sault Ste. Marie Canal, and St. Andrew's Canal, passenger statistics in the summary table have been eliminated. This has been done because the information on passenger movements through the other seven canals have been considered to be incomplete.

## Analysis of Data

*Activity in the eleven Canadian canal systems reached record levels in 1964. Factors contributing to the establishment of these records were the new heights reached by import and export trade, and the expansion in coastwise shipping (preliminary shipping data indicate a new record of approximately 51,000,000 tons of cargo unloadings in coastwise shipping).*

The total tonnage of cargo transported through all Canadian canals during 1964 increased 25.1 per cent, to a record of 93,276,850 tons. Tonnages moved through the St. Lawrence Canals and the Welland Canal also reached new heights. The volume of commodities transported through the St. Lawrence Canals rose 26.6 per cent over the previous year's total, to 39,440,173 tons. Cargo transported through the Welland Canal rose 24.4 per cent, to 51,416,382 tons.

In 1955 a total of 34,874,198 tons of cargo was transported through Canadian canals. In 1958, the year prior to the opening of the St. Lawrence Seaway, this figure had risen to 35,096,587 tons. At the end of the sixth year of operation of the Seaway, the tonnage transported had risen to 93,276,850 tons. This trend illustrates the significant increase in the use of Canadian canal systems, which, over the ten-year period, handled an increase of 167.5 per cent in commodity movements.

### Vessel Passages

The 21,811 vessel passages which were recorded in 1963 increased to 23,155 in 1964. The trend towards the use of fewer, but larger, vessels which began in 1960, therefore, has ceased this year. The registered net tonnage of these vessels, however, continued to expand; 68,157,996 net tons were reported this year, compared to 59,236,863 net tons in 1963.

Over the years the trend of vessel passages through the two major canal systems has been for the number of passages through the St. Lawrence Canals to exceed that of the Welland Canal. This trend was interrupted in 1963, however, when, for the first time, more vessels moved through the Welland Canal than the St. Lawrence Canals. This year the trend has been resumed.

### Commodities

In 1964 the commodities transported in greatest volume through Canadian canals were iron ore, wheat, bituminous coal, and corn. Illustrating the fact that bulk commodities comprise the major portion of movements through the canal systems, transportation of these four commodities accounted for 66.6 per cent of the total volume of cargo.

Canada is now the world's leading exporter of iron ore. Transportation of this commodity through Canadian canals in 1964 expanded by 38.9 per cent,

to 28,910,524 tons. By contrast, the tonnage moved a decade ago was only 2,596,249 tons. Indications are that the movements of iron ore through the canal systems will expand each year, but, perhaps, at a lesser rate than was experienced this year.

Wheat movements, which were second in volume in 1964, increased 26.1 per cent, to a total of 19,172,466 tons. The impetus to this increase was provided by the major shipments to the U.S.S.R. and other Communist countries which began in 1963. These shipments continued at an accelerated rate in 1964.

The third largest commodity was bituminous coal, which rose 19.7 per cent, as a result of increased industrial demand in the Lake Ontario region.

Corn was fourth in the group of largest commodities. Reported movements of this commodity increased 22.3 per cent, to a total of 6,858,801 tons. Shipments from the United States amounted to 99.4 per cent of this total.

As well as recording significant changes in the transportation of the four major commodities, canal statistics for 1964 reveal important changes in several other commodities:

Soya bean shipments rose 43.6 per cent, to a total of 2,456,262 tons. Almost all of the total tonnage of this commodity came from the U.S. Great Lakes region, and was destined for Canada and "Other European" countries.

The amount of flaxseed transported through canals rose 47.3 per cent, to a total of 812,267 tons. The bulk of this commodity moves from Port Arthur-Fort William to lower St. Lawrence River ports for transshipment overseas.

Pig iron movements upbound through the St. Lawrence Canals and the Welland Canal almost doubled, to 510,966 tons, as a result of increased loadings of this commodity at Sorel.

The majority of rye shipments downbound through the two main canal systems of the St. Lawrence Seaway came from U.S. ports, and were destined to Canadian or overseas ports. Compared to 1963 these shipments dropped by more than half, to a total of 305,546 tons.

#### Vessel Registries

The percentage of total tonnages transported through Canadian canals by vessels of Canadian registry decreased in 1964. A total of 58,138,463 tons, or 62.4 per cent of total tonnages, was carried by these vessels, compared to 65.5 per cent a year earlier.

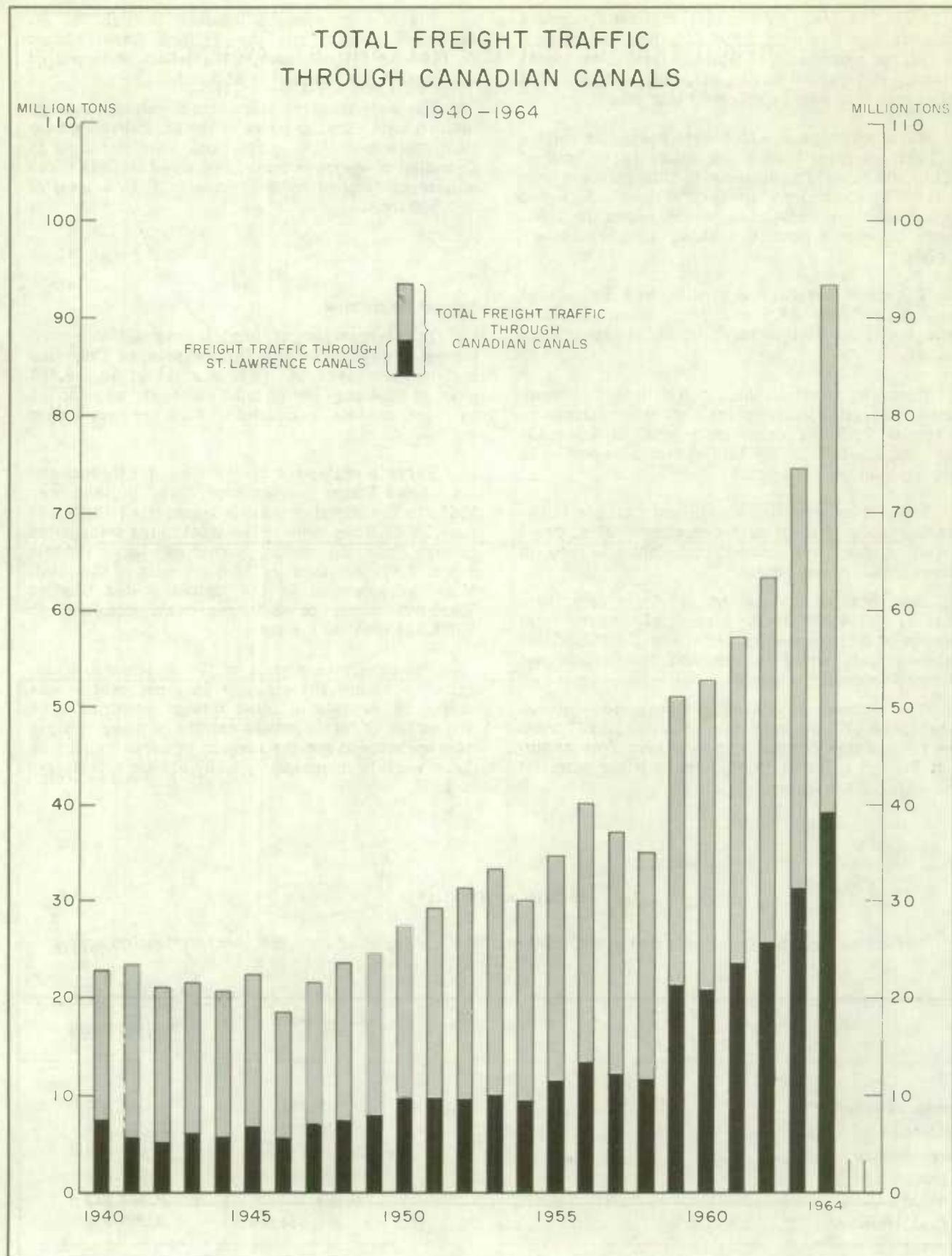
Vessels registered in the United Kingdom and the United States carried more cargo in 1964 than 1963. United Kingdom vessels transported 12,111,198 tons, or 13.0 per cent of the total cargo transported through Canadian canals. A year ago these vessels moved 8,671,523 tons, or 11.6 per cent of the total. Vessels registered in the United States handled 7,939,695 tons, or 8.5 per cent, compared to 5,094,124 tons, or 6.8 per cent.

The remaining portion of the total cargo transported — 15,087,494 tons, or 16.1 per cent — was shared by vessels of other foreign countries. The percentage of total tonnage carried in these vessels was unchanged, but the amount of cargo carried by these vessels increased by 3,127,617 tons, compared to 1963.

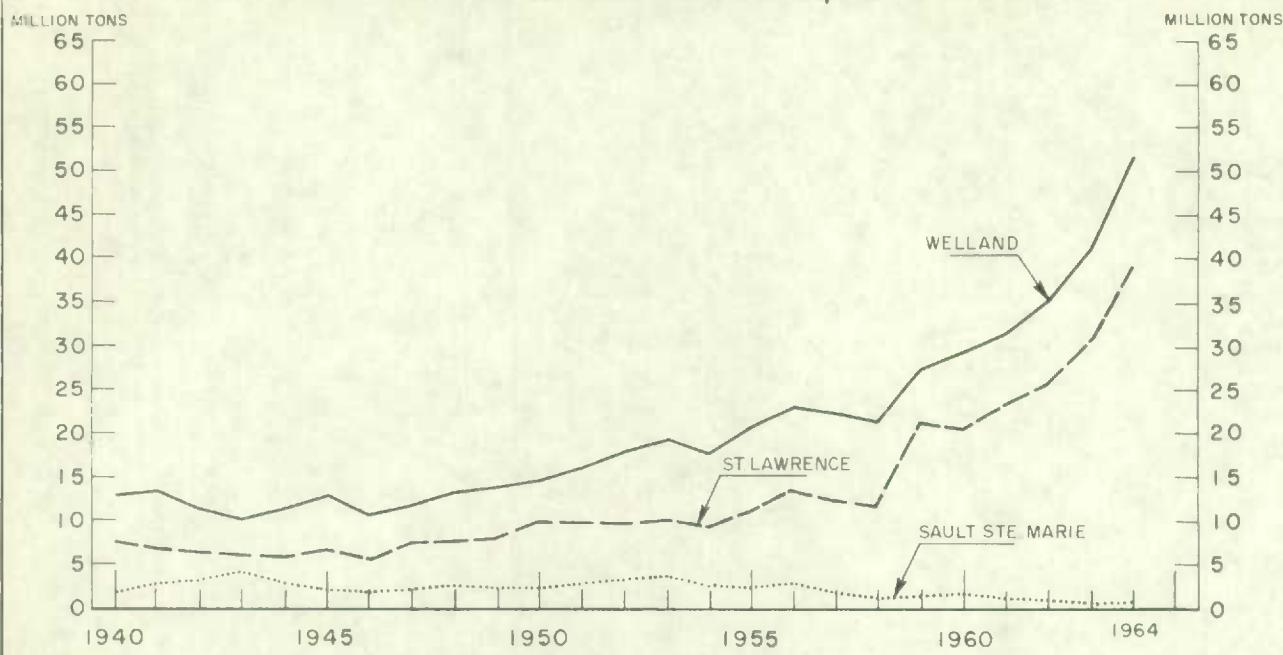
#### Statistical Highlights

The following table provides a statistical picture of the highlights of the 1964 canal navigation season:

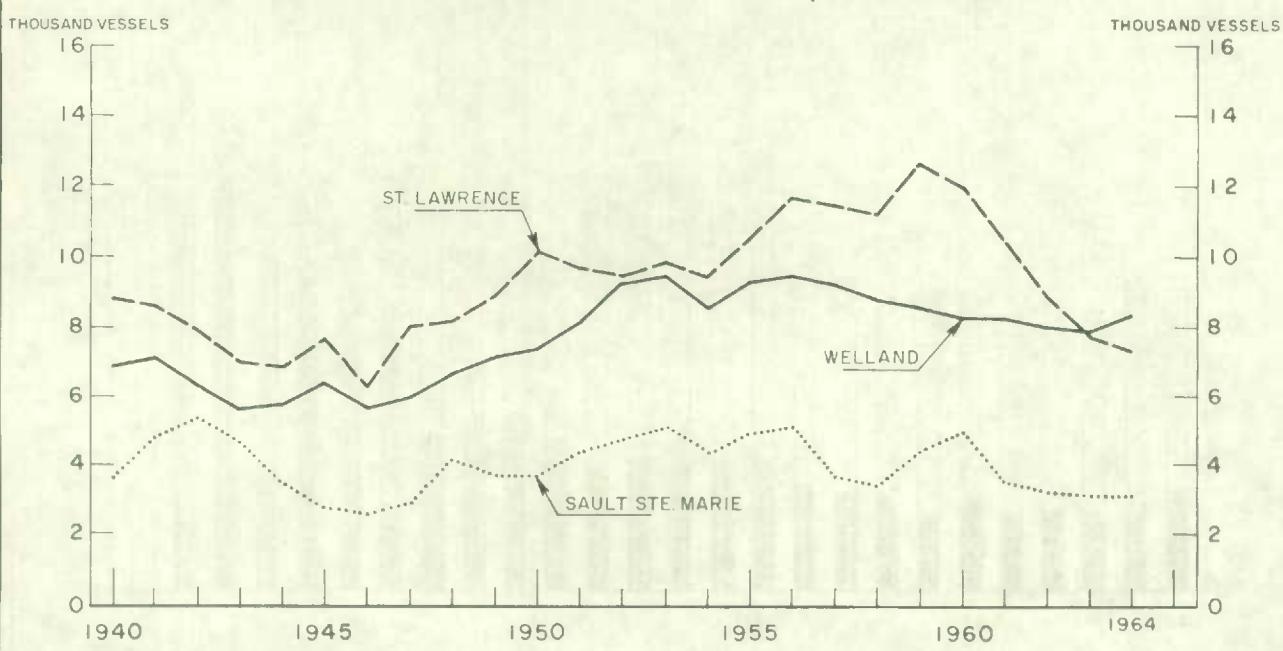
	St. Lawrence Canals	Welland Canal
Number of vessels .....	8,378	8,277
Registered net tonnage .....	26,836,587	37,141,058
Cargo tonnage .....	39,440,173	51,416,382
Iron ore .....	12,132,553	16,777,971
Wheat .....	9,209,727	9,826,512
Coal, bituminous .....	831,314	6,333,578

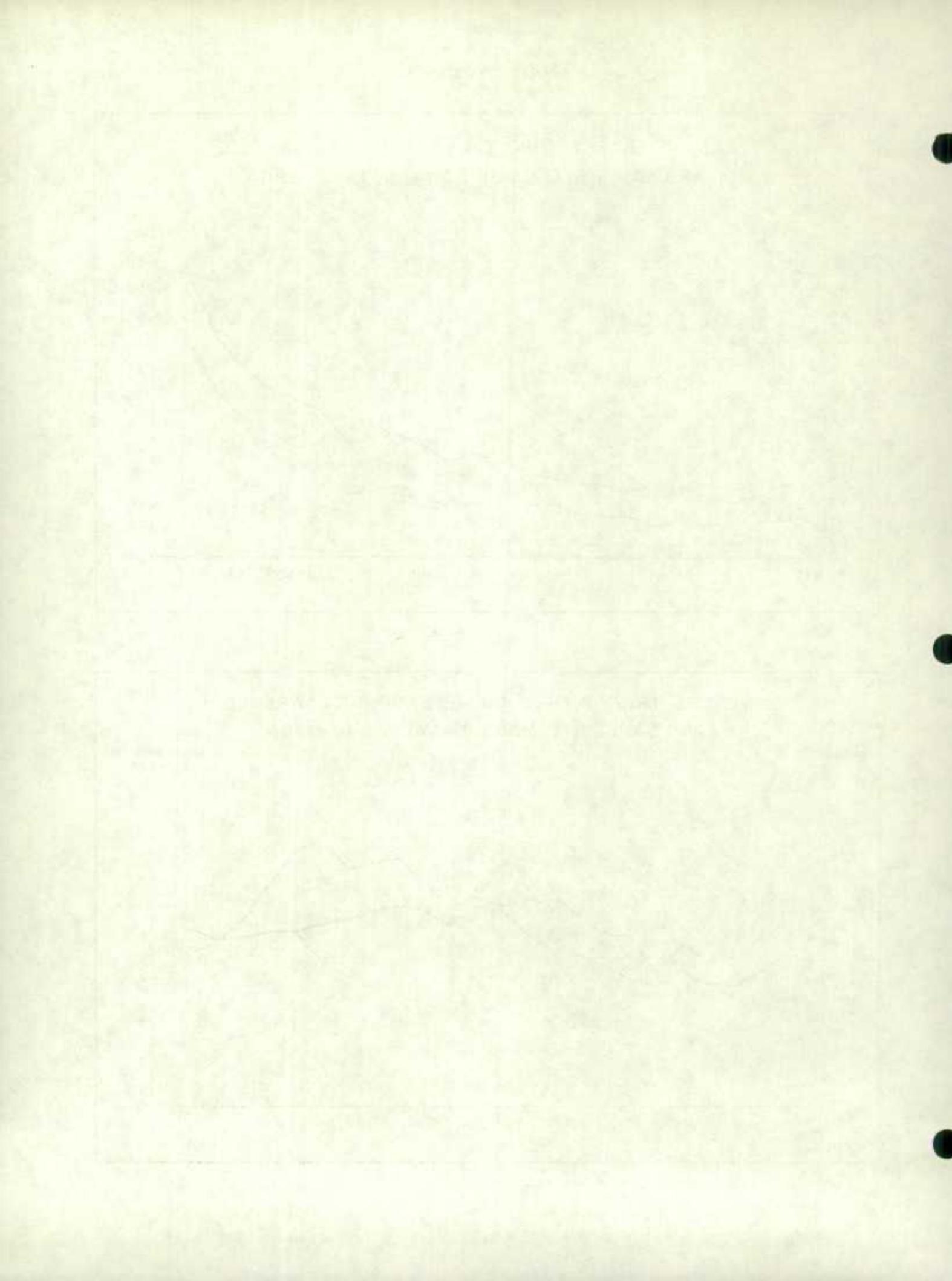


FREIGHT TRAFFIC THROUGH WELLAND, ST. LAWRENCE  
AND SAULT STE. MARIE CANALS, 1940-1964



VESSEL TRAFFIC THROUGH WELLAND, ST. LAWRENCE  
AND SAULT STE. MARIE CANALS, 1940-1964





**SECTION I**  
**SUMMARY FOR ALL CANALS**

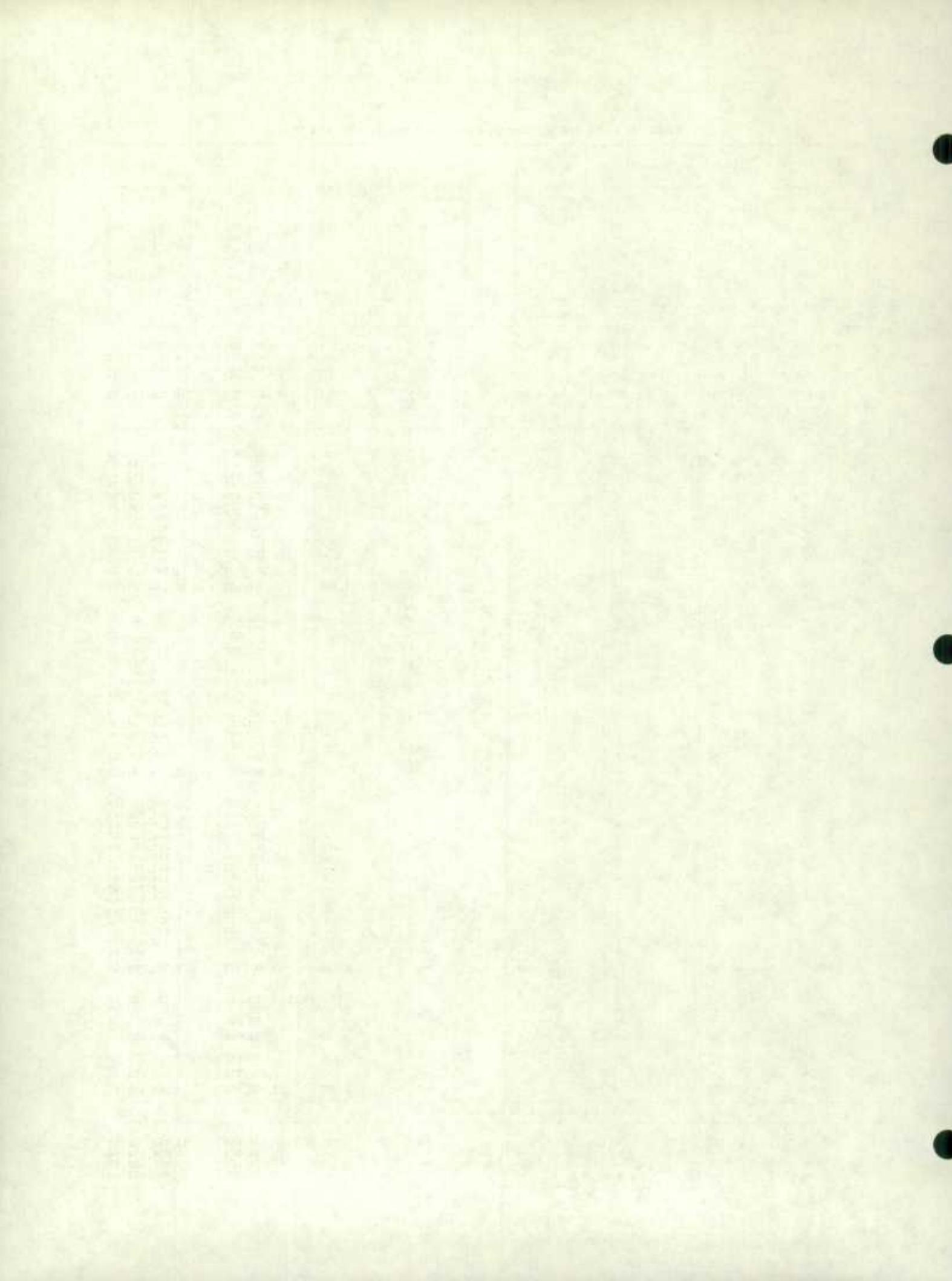
TABLE 1. Total Traffic through Canadian Canals, 1963 and 1964

	Registry of vessel	St. Lawrence	Welland	Sault Ste. Marie	St. Peter's	Canso
Number of vessels and passengers						
1	Canadian vessels .....	4,976	4,326	1,707	384	1,178
2	United States vessels .....	683	869	1,330	1	23
3	United Kingdom vessels <sup>1</sup> .....	682	1,294	16	1	50
4	Other foreign vessels .....	2,037	1,788	9	—	116
5	Total vessels .....	8,378	8,277	3,062	386	1,367
6	Passengers .....	6,858	1,877	131,396	—	—
Registered net tonnage of vessels						
7	Canadian vessels .....	14,741,289	21,816,805	2,371,035	8,926	924,620
8	United States vessels .....	2,129,345	3,019,284	302,587	6	10,108
9	United Kingdom vessels <sup>1</sup> .....	3,191,026	6,126,076	85,250	6	92,126
10	Other foreign vessels .....	6,774,927	6,178,893	11,995	—	211,032
11	Total registered net tonnage .....	26,836,587	37,141,058	2,770,847	8,938	1,237,886
Cargo tons						
Food, feed, beverages and tobacco:						
12	Barley .....	1,198,105	1,448,977	20,819	—	13,729
13	Corn .....	3,325,152	3,529,011	—	—	4,638
14	Oats .....	379,164	473,315	1,073	—	11,363
15	Rye .....	151,613	151,613	2,320	—	—
16	Wheat .....	9,209,727	9,826,512	10,394	—	125,833
17	Flour, wheat .....	239,436	244,052	—	—	10,629
18	Grain, flour, meal and cereals, n.e.s. ....	196,131	196,896	—	—	—
19	Beans and peas, dried .....	204,954	238,679	—	—	—
20	Sugar .....	139,141	32,259	—	—	—
21	Molasses, crude and refined .....	61,102	74,966	—	—	—
22	Soyabean oil cake and meal .....	267,851	95,177	—	—	2,240
23	Food, feed, beverages and tobacco, n.e.s. ....	1,113,019	1,021,264	60,733	304	36,239
24	Totals .....	16,485,395	17,332,721	95,339	304	204,671
Crude materials, inedible:						
25	Raw hides and skins .....	90,463	72,387	—	—	—
26	Flaxseed .....	395,668	416,599	—	—	—
27	Soyabeans .....	1,003,766	1,452,496	—	—	—
28	Pulpwood .....	251,215	254,915	4,234	—	41,513
29	Iron ore .....	12,132,553	16,777,971	—	—	—
30	Metallic ores and concentrates, n.e.s. ....	203,054	192,427	—	—	—
31	Iron and steel scrap .....	449,398	418,587	4,780	—	—
32	Coal, bituminous .....	831,314	6,333,578	12,478	—	—
33	Crude petroleum .....	93,646	—	—	—	—
34	Clay and bentonite .....	134,390	167,769	—	—	—
35	Sand, gravel and stone crushed .....	12,132	1,186,955	107,072	110	87,050
36	Salt .....	238,070	343,072	14,485	—	13,796
37	Sulphur .....	78,296	78,276	—	—	123,344
38	Crude materials, inedible, n.e.s. ....	480,687	546,404	15,731	—	—
39	Totals .....	16,394,652	28,241,438	158,780	110	265,703
Fabricated materials, inedible:						
40	Woodpulp .....	37,984	37,179	105,397	—	7,333
41	Newsprint paper .....	343,777	459,871	62,769	—	42,592
42	Sodium products .....	46	117,398	—	—	—
43	Chemical products, n.e.s. ....	539,065	533,526	8,926	—	23,782
44	Gasoline .....	103,161	216,783	109,723	—	230,683
45	Fuel oil .....	1,559,924	1,021,292	175,069	—	472,286
46	Lubricating oils and greases .....	62,229	109,833	—	—	—
47	Coke .....	254,978	274,998	—	—	—
48	Tar, pitch and creosote .....	36,138	113,176	6,913	—	—
49	Pig iron .....	261,433	247,103	2,430	—	—
50	Iron and steel: ingot, billet, rod, etc. ....	286,088	237,942	15,035	—	—
51	Structural shapes and sheet piling .....	885,135	692,565	72,352	—	—
52	Iron and steel: n.e.s. ....	192,009	163,464	1,634	—	—
53	Cement .....	17,045	124,505	—	—	62,143
54	Miscellaneous fabricated materials, n.e.s. ....	795,393	620,699	2,045	—	2,661
55	Totals .....	5,374,405	4,970,334	562,293	—	841,480
End products, inedible:						
56	Machinery, equipment and parts .....	143,456	113,147	—	—	—
57	Motor vehicles and parts .....	183,114	152,063	—	—	—
58	End products, inedible, n.e.s. ....	29,668	17,847	—	—	—
59	Totals .....	356,238	283,057	—	—	—
60	Miscellaneous freight, n.e.s. ....	128,214	64,930	8,628	67	33,433
61	Domestic package freight .....	701,269	523,904	141,597	—	—
62	Grand totals .....	39,440,173	51,416,382	966,637	481	1,345,287
Cargo carried, by registry of vessel						
63	Canadian vessels .....	23,735,892	32,374,655	874,989	481	1,044,756
64	United States vessels .....	3,343,924	4,508,003	87,228	—	540
65	United Kingdom vessels <sup>1</sup> .....	4,308,902	7,701,354	—	—	100,942
66	Other foreign vessels .....	8,051,655	6,832,370	4,420	—	199,049

<sup>1</sup> Includes other British Commonwealth.

TABLE 1. Total Traffic through Canadian Canals, 1963 and 1964

Richelieu river	Ottawa river	Rideau	Murray	Trent	St. Andrew's	Total		No.
						1964	1963	
Number of vessels and passengers								
654	341	19	67	271	333	14,256	13,821	1
—	—	—	—	—	—	2,906	3,106	2
—	—	—	—	—	—	2,043	1,637	3
—	—	—	—	—	—	3,950	3,247	4
654	341	19	67	271	333	23,155	21,811	5
—	—	—	—	—	—	140,131	151,961	6
Registered net tonnage of vessels								
120,439	23,010	600	1,629	2,321	14,681	40,025,355	38,040,238	7
—	—	—	—	—	—	5,461,310	4,016,111	8
—	—	—	—	—	—	9,494,484	6,932,454	9
—	—	—	—	—	—	13,176,847	10,248,080	10
120,439	23,010	600	1,629	2,321	14,681	68,157,996	59,236,863	11
Cargo tons								
—	—	—	—	—	—	2,681,630	2,477,372	13
—	—	—	—	—	—	6,858,801	5,609,794	13
—	—	—	—	—	—	864,915	1,173,152	14
—	—	—	—	—	—	305,546	656,330	15
—	—	—	—	—	—	19,172,466	15,198,173	16
—	—	—	—	—	—	494,117	475,156	17
—	—	—	—	—	—	393,027	367,347	18
—	—	—	—	—	—	443,633	462,506	19
—	—	—	—	—	—	171,400	154,790	20
—	—	—	—	—	—	136,068	216,053	21
—	—	—	—	—	—	365,268	368,188	22
—	—	—	—	—	1,415	2,232,974	1,797,526	23
—	—	—	—	—	1,415	34,119,845	28,956,387	24
—	—	—	—	—	—	162,850	100,086	25
—	—	—	—	—	—	812,267	551,384	26
—	—	—	—	—	—	2,456,262	1,710,261	27
—	—	—	—	—	—	551,877	593,542	28
—	—	—	—	—	—	28,910,524	20,814,689	29
—	—	—	—	—	—	395,481	238,765	30
—	—	—	—	—	—	872,785	670,485	31
—	—	—	—	—	—	7,177,370	5,998,523	32
—	—	—	—	—	—	93,646	151,629	33
—	—	—	—	—	—	302,159	285,903	34
—	—	—	—	—	—	1,306,159	1,249,136	35
—	—	—	—	—	—	682,787	633,781	36
—	—	—	—	—	—	170,368	172,475	37
—	—	—	—	—	—	1,166,166	828,865	38
—	—	—	—	—	—	45,060,681	33,999,524	39
—	—	—	—	—	—	187,893	209,185	40
27,421	—	—	—	—	—	936,430	834,266	41
64,251	—	—	—	—	—	117,444	115,529	42
—	—	—	—	—	—	1,169,550	849,353	43
—	—	—	—	31	889	661,270	561,928	44
—	—	—	—	33	60	3,228,664	2,733,055	45
—	—	—	—	—	—	172,062	217,371	46
—	—	—	—	—	—	529,978	474,653	47
—	—	—	—	—	—	156,227	146,085	48
—	—	—	—	—	—	510,966	265,424	49
—	—	—	—	—	—	539,065	357,901	50
—	—	—	10,923	—	—	1,660,975	1,034,233	51
—	—	—	—	—	—	357,107	440,488	52
—	—	—	—	—	—	203,693	202,816	53
3	—	—	—	—	454	1,421,255	1,268,458	54
91,675	10,923	—	—	64	1,403	11,852,577	9,710,745	55
—	1,758	—	—	—	—	258,361	239,103	56
—	—	—	—	—	—	335,177	252,240	57
—	1,758	—	—	—	39	47,554	56,702	58
463	—	—	—	—	39	641,092	548,045	59
—	—	—	—	—	150	235,885	304,276	60
92,138	12,681	—	—	64	3,007	93,276,850	74,585,427	62
Cargo carried, by registry of vessel								
92,138	12,681	—	—	64	3,007	58,138,463	48,859,903	63
—	—	—	—	—	—	7,939,695	5,094,124	64
—	—	—	—	—	—	12,111,198	8,871,523	65
—	—	—	—	—	—	15,087,494	11,959,877	66



## **SECTION II**

### **ST. LAWRENCE SEAWAY CANALS**

ST. LAWRENCE CANALS<sup>1</sup>

TABLE 2. Location and Description

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

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

TABLE 3. Historical Summary, 1955-64

Registry of vessel	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Vessel transits										
Upbound:										
Canada	4,640	5,227	5,082	4,851	4,736	4,158	3,441	2,584	2,436	2,433
United States	77	92	161	193	340	631	366	356	248	335
United Kingdom <sup>1</sup>	58	78	104	87	298	333	424	462	343	386
Other foreign	315	338	382	516	851	891	875	886	821	981
Totals	5,090	5,735	5,729	5,647	6,225	6,013	5,106	4,288	3,848	4,135
Downbound:										
Canada	4,845	5,374	5,133	4,835	4,853	4,178	3,442	2,827	2,425	2,543
United States	74	111	189	176	350	629	387	359	262	345
United Kingdom <sup>1</sup>	64	93	117	81	308	332	432	462	344	396
Other foreign	315	337	378	506	840	888	890	895	831	1,086
Totals	5,298	5,915	5,817	5,598	6,351	6,027	5,151	4,543	3,862	4,243
Grand totals	10,388	11,650	11,546	11,245	12,576	12,040	10,257	8,831	7,710	8,378
Registered net tons										
Upbound:										
Canada	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	7,362,725
United States	34,157	39,562	40,187	57,941	507,176	520,540	269,380	494,527	684,956	1,068,076
United Kingdom <sup>1</sup>	39,611	56,528	65,724	55,508	803,757	987,579	1,316,171	1,366,560	1,371,721	1,589,815
Other foreign	262,325	286,072	321,122	427,427	2,038,223	2,583,006	2,593,124	2,814,194	2,652,383	3,402,425
Totals	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	13,423,041
Downbound:										
Canada	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	7,378,584
United States	34,925	43,621	49,339	53,554	468,942	527,828	296,551	504,350	689,388	1,061,269
United Kingdom <sup>1</sup>	47,743	68,883	80,647	51,139	812,951	971,340	1,330,289	1,383,849	1,372,759	1,601,211
Other foreign	258,691	286,035	316,716	416,682	2,017,016	2,596,680	2,630,189	2,851,098	2,716,127	3,372,502
Totals	4,638,680	5,082,805	4,478,564	4,546,990	8,691,105	8,628,450	9,765,180	10,356,890	11,581,878	13,413,546
Grand totals	9,046,487	9,984,651	8,890,949	9,117,910	17,382,398	17,333,605	19,533,205	20,587,913	23,138,397	26,836,587
Cargo tons										
Upbound:										
Canada	4,391,872	5,323,540	4,686,803	4,099,722	8,065,427	5,610,185	5,585,557	7,006,988	8,398,216	12,097,966
United States	11,782	2,200	235	925	510,245	308,849	189,285	441,045	1,304,277	2,261,505
United Kingdom <sup>1</sup>	44,846	71,453	60,226	78,254	708,082	1,034,710	1,139,442	1,459,496	1,582,221	1,620,333
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	2,636,322
Totals	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	18,616,126
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	11,637,726
United States	36,854	52,114	45,173	29,181	169,684	244,272	337,203	518,187	649,302	1,082,419
United Kingdom <sup>1</sup>	55,824	72,735	83,734	63,809	1,266,991	1,654,228	1,935,888	2,036,230	1,998,712	2,688,569
Other foreign	352,416	353,359	404,106	505,257	2,882,387	4,134,166	4,350,292	4,554,051	4,160,098	5,415,333
Totals	6,664,817	7,721,402	7,102,695	7,091,853	10,066,311	11,887,838	15,424,588	14,799,152	17,505,249	20,824,047
Grand totals	11,446,620	13,499,698	12,191,492	11,762,100	21,221,280	20,752,161	23,672,825	25,747,821	31,164,332	39,440,173
Season of navigation										
First vessel passage ..	April 10	April 12	April 10	April 14	April 25	April 18	April 11	April 23	April 15	April 8
Last vessel passage ..	Dec. 12	Dec. 13	Dec. 13	Dec. 19	Dec. 3	Dec. 3	Dec. 12	Dec. 4	Dec. 13	Dec. 7

<sup>1</sup> Includes other British Commonwealth.

TABLE 4. Traffic on the St. Lawrence Section of the Seaway by kind of Vessel<sup>1</sup>

kind of vessel	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
<b>Upbound:</b>							
Cargo .....	604	1,769	2,373	11,292,697	17,091,889	15,980,029	54
Passenger-cargo .....	108	50	158	146,530	273,962	97,583	3,073
Cargo-passenger .....	13	239	252	543,566	974,626	532,967	269
Scow, barge, etc. ....	8	—	8	1,585	1,692	—	—
Tug and scow .....	91	3	94	47,953	50,644	2,363	—
Tanker .....	44	423	467	1,188,177	1,903,902	1,962,567	—
Tug or dredge .....	134	—	134	18,116	22,799	—	—
Naval or Government .....	121	—	121	48,664	65,233	—	—
All other types .....	39	—	39	1,589	1,840	—	—
<b>Totals</b> .....	<b>1,162</b>	<b>2,484</b>	<b>3,646</b>	<b>13,289,077</b>	<b>20,386,587</b>	<b>18,575,509</b>	<b>3,396</b>
<b>Downbound:</b>							
Cargo .....	214	2,167	2,381	11,289,821	17,056,984	18,916,529	60
Passenger-cargo .....	103	36	139	125,384	225,870	150,996	3,149
Cargo-passenger .....	3	250	253	569,714	1,029,581	936,902	253
Scow, barge, etc. ....	10	—	10	3,022	3,022	—	—
Tug and scow .....	81	10	91	48,786	52,393	19,367	—
Tanker .....	373	92	465	1,175,217	1,884,019	754,296	—
Tug or dredge .....	145	—	145	19,078	24,600	—	—
Naval or Government .....	115	—	115	38,919	54,551	—	—
All other types .....	38	—	38	2,019	2,296	—	—
<b>Totals</b> .....	<b>1,082</b>	<b>2,555</b>	<b>3,637</b>	<b>13,271,960</b>	<b>20,333,316</b>	<b>20,778,090</b>	<b>3,462</b>
<b>Grand totals</b> .....	<b>2,244</b>	<b>5,039</b>	<b>7,283</b>	<b>26,561,037</b>	<b>40,719,903</b>	<b>39,353,599</b>	<b>6,858</b>

TABLE 5. Traffic on the St. Lawrence Section of the Seaway by Country of Registry of Vessel<sup>1</sup>

Country of registry	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
<b>Upbound:</b>							
Canada .....	697	1,255	1,952	7,233,819	10,397,171	12,057,774	—
United States .....	188	146	334	1,067,108	1,587,034	2,261,505	2,892
United Kingdom .....	44	244	288	1,117,992	1,925,279	966,145	61
Other British Commonwealth .....	21	72	93	468,833	682,200	653,763	—
Belgium .....	3	2	5	66,220	73,580	1,219	3
Denmark .....	2	18	20	30,442	57,496	27,824	—
Finland .....	1	12	13	5,219	10,059	3,215	3
France .....	14	20	34	142,920	265,180	70,092	—
Germany .....	25	229	254	669,963	1,128,740	613,238	212
Greece .....	17	26	43	213,423	338,667	180,502	4
Italy .....	6	13	19	71,862	127,775	39,077	—
Netherlands .....	9	58	67	167,883	299,097	147,903	—
Norway .....	69	195	264	993,934	1,737,176	726,218	61
Sweden .....	22	74	98	254,874	470,532	134,129	12
Other Europe .....	3	24	27	99,899	170,539	74,470	48
Panama .....	9	6	15	66,278	110,135	55,174	—
Middle East .....	3	16	19	54,872	99,590	23,019	—
Other Asia .....	3	26	29	152,383	256,048	145,555	—
Liberia .....	24	43	67	383,134	609,469	377,322	—
Other countries .....	2	5	7	28,019	40,820	17,365	—
<b>Totals</b> .....	<b>1,162</b>	<b>2,484</b>	<b>3,646</b>	<b>13,289,077</b>	<b>20,386,587</b>	<b>18,575,509</b>	<b>3,396</b>
<b>Downbound:</b>							
Canada .....	771	1,178	1,949	7,242,834	10,392,527	11,594,427	—
United States .....	234	111	345	1,060,088	1,574,556	1,082,419	3,136
United Kingdom .....	22	270	292	1,145,845	1,959,313	1,766,994	35
Other British Commonwealth .....	2	88	90	452,928	655,678	919,135	—
Belgium .....	—	5	5	66,220	73,580	76,511	—
Denmark .....	9	9	18	25,993	49,221	55,122	—
Finland .....	—	10	10	3,585	6,617	8,068	—
France .....	—	33	33	139,094	258,069	282,075	—
Germany .....	4	247	251	670,426	1,125,370	1,136,837	141
Greece .....	6	35	41	208,462	329,829	298,421	—
Italy .....	—	19	19	73,608	130,587	151,987	—
Netherlands .....	2	62	64	161,239	276,483	255,143	28
Norway .....	8	260	268	999,052	1,761,092	1,751,747	85
Sweden .....	—	93	93	259,355	476,574	413,486	6
Other Europe .....	—	25	25	82,124	144,460	157,774	31
Panama .....	4	12	16	71,422	118,820	104,699	—
Middle East .....	2	19	21	63,456	113,448	84,781	—
Other Asia .....	—	29	29	152,496	258,683	138,501	—
Liberia .....	18	49	67	384,367	612,297	486,012	—
Other countries .....	—	1	1	9,366	14,112	13,951	—
<b>Totals</b> .....	<b>1,082</b>	<b>2,555</b>	<b>3,637</b>	<b>13,271,960</b>	<b>20,333,316</b>	<b>20,778,090</b>	<b>3,462</b>
<b>Grand totals</b> .....	<b>2,244</b>	<b>5,039</b>	<b>7,283</b>	<b>26,561,037</b>	<b>40,719,903</b>	<b>39,353,599</b>	<b>6,858</b>

<sup>1</sup> Excludes non-toll traffic using Lachine and Cornwall canals only.

TABLE 6. Traffic on the St. Lawrence Section of the Seaway by Length of Vessel<sup>1</sup>

Length of vessel	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
<b>Upbound:</b>							
Under 80 feet	280	—	280	11,439	12,414	—	2,605
80 to 119 feet	127	2	129	23,330	28,353	116	—
120 " 159 "	71	38	109	39,185	63,283	25,133	1
160 " 199 "	11	3	14	5,887	13,083	3,831	—
200 " 239 "	9	24	33	17,768	27,023	9,985	—
240 " 279 "	181	426	607	835,958	1,274,852	1,163,695	—
280 " 319 "	19	155	174	245,407	405,304	351,027	13
320 " 359 "	44	236	280	600,777	937,278	871,520	438
360 " 399 "	20	229	249	579,198	983,255	729,037	80
400 " 439 "	85	263	348	1,081,699	1,847,826	772,143	111
440 " 479 "	89	203	292	1,109,639	1,913,925	727,016	81
480 " 519 "	98	243	341	1,776,141	2,937,866	1,390,023	58
520 " 559 "	67	145	212	1,282,870	1,948,079	1,426,495	6
560 " 599 "	16	32	48	336,509	494,327	408,250	—
600 " 639 "	30	145	175	1,283,758	1,847,390	2,467,951	3
640 " 679 "	2	96	98	856,707	1,191,688	1,999,321	—
680 " 759 "	13	244	257	3,202,805	4,460,641	6,229,966	—
<b>Totals</b>	<b>1,162</b>	<b>2,484</b>	<b>3,646</b>	<b>13,289,077</b>	<b>20,386,587</b>	<b>18,575,509</b>	<b>3,396</b>
<b>Downbound:</b>							
Under 80 feet	270	—	270	11,699	12,390	—	2,753
80 to 119 feet	134	—	134	24,491	30,702	—	—
120 " 159 "	84	30	114	34,882	52,191	13,286	—
160 " 199 "	15	5	20	11,125	16,412	3,821	—
200 " 239 "	9	20	29	18,032	25,709	29,747	—
240 " 279 "	251	358	609	841,135	1,283,587	1,032,927	3
280 " 319 "	25	147	172	246,760	403,082	418,930	5
320 " 359 "	73	201	274	588,092	916,337	753,184	410
360 " 399 "	51	193	244	566,360	959,953	640,376	71
400 " 439 "	5	345	350	1,080,541	1,840,754	1,731,283	95
440 " 479 "	10	283	293	1,117,385	1,931,901	1,839,579	60
480 " 519 "	10	328	338	1,767,075	2,926,974	2,998,398	84
520 " 559 "	21	191	212	1,269,012	1,923,031	2,210,128	—
560 " 599 "	12	34	46	323,695	477,185	428,356	—
600 " 639 "	38	143	181	1,329,941	1,913,719	2,182,002	—
640 " 679 "	26	67	93	824,958	1,140,189	1,231,927	—
680 " 759 "	48	210	258	3,216,777	4,479,200	5,264,146	—
<b>Totals</b>	<b>1,082</b>	<b>2,555</b>	<b>3,637</b>	<b>13,271,960</b>	<b>20,333,316</b>	<b>20,778,090</b>	<b>3,468</b>
<b>Grand totals</b>	<b>2,244</b>	<b>5,039</b>	<b>7,283</b>	<b>26,561,037</b>	<b>40,719,903</b>	<b>39,353,599</b>	<b>6,858</b>

<sup>1</sup> Includes non-toll traffic using Lachine and Cornwall canals only.TABLE 7 A. Number and Tonnage of Vessels Upbound on the St. Lawrence Section of the Seaway by Origin and Destination<sup>1</sup>

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
<b>Originating at ports on the St. Lawrence river:</b>									
Registry:									
Canada	1,099	2,496,567	3,747,678	794	4,448,430	6,184,087	1,893	6,944,997	9,931,765
United States	3	1,470	1,668	277	841,040	1,216,010	280	842,510	1,217,678
United Kingdom	18	88,631	146,698	41	215,940	319,866	59	304,571	466,564
Other British Commonwealth	17	90,956	129,091	61	325,292	458,743	78	416,248	587,834
Belgium	—	—	—	2	26,488	29,432	2	26,488	29,432
Denmark	—	—	—	1	3,374	6,115	1	3,374	6,115
Finland	1	1,078	2,285	—	—	—	1	1,078	2,285
Germany	—	—	—	4	11,952	19,473	4	11,952	19,473
Greece	1	4,449	7,159	2	12,333	18,375	3	16,782	25,534
Italy	1	3,205	5,851	—	—	—	1	3,205	5,851
Netherlands	1	7,061	12,913	—	—	—	1	7,061	12,913
Norway	1	4,915	9,999	13	70,973	119,877	14	75,888	129,876
Other Europe	—	—	—	1	4,419	7,969	1	4,419	7,969
Liberia	—	—	—	1	4,347	7,171	1	4,347	7,171
Other countries	—	—	—	1	13,244	14,716	1	13,244	14,716
<b>Totals</b>	<b>1,142</b>	<b>2,698,332</b>	<b>4,063,342</b>	<b>1,198</b>	<b>5,977,832</b>	<b>8,401,834</b>	<b>2,340</b>	<b>8,676,164</b>	<b>12,465,178</b>

<sup>1</sup> 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 Destination<sup>1</sup> — 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
<b>Originating at ports outside the Gulf of St. Lawrence:</b>								
Registry:								
Canada.....	48	254,878	412,000	11	33,944	53,406	59	288,822
United States.....		—	—	54	224,598	369,356	54	224,598
United Kingdom.....	71	256,229	459,157	158	557,192	999,558	229	813,421
Other British Commonwealth.....	4	7,770	13,949	11	44,815	80,417	15	52,585
Belgium.....	2	26,468	29,432	1	13,244	14,716	3	39,732
Denmark.....	9	3,279	7,129	10	23,789	44,252	19	27,068
Finland.....	—	—	—	12	4,141	7,774	12	4,141
France.....	4	14,198	27,774	30	128,722	237,406	34	142,920
Germany.....	29	62,511	104,974	221	595,500	1,004,293	250	658,011
Greece.....	12	70,045	104,487	28	126,596	208,648	40	196,841
Italy.....		—	—	18	68,857	121,924	18	68,657
Netherlands.....	5	13,832	24,499	61	146,990	261,775	66	160,822
Norway.....	31	133,364	225,493	219	784,682	1,381,807	250	918,046
Sweden.....	9	29,905	54,103	87	224,969	416,429	96	254,874
Other Europe.....	1	1,140	2,478	25	94,340	160,092	26	95,480
Panama.....	3	16,964	27,710	12	49,314	82,425	15	66,278
Middle East.....	4	14,206	23,452	15	40,666	76,138	19	54,872
Other Asia.....	1	4,427	7,211	28	147,956	248,837	29	152,383
Liberia.....	18	119,826	198,494	48	258,961	403,804	66	378,787
Other countries.....	5	10,582	19,943	1	4,193	6,161	6	14,775
<b>Totals .....</b>	<b>256</b>	<b>1,039,644</b>	<b>1,742,195</b>	<b>1,050</b>	<b>3,573,269</b>	<b>6,179,216</b>	<b>1,306</b>	<b>4,612,913</b>
<b>Grand Totals — Upbound .....</b>	<b>1,398</b>	<b>3,737,976</b>	<b>5,805,537</b>	<b>2,248</b>	<b>9,551,101</b>	<b>14,581,050</b>	<b>3,648</b>	<b>13,289,077</b>

<sup>1</sup> Excludes non-toll traffic using Lachine and Cornwall canals only.

**TABLE 7B. Number and Tonnage of Vessels Downbound on the St. Lawrence Section of the Seaway by Origin and Destination<sup>1</sup>**

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
<b>Destined to ports on the St. Lawrence river:</b>								
Registry:								
Canada.....	1,453	5,453,133	7,800,252	426	1,461,060	2,058,871	1,881	6,914,193
United States.....	4	1,591	2,894	280	838,978	1,208,482	284	840,567
United Kingdom.....	14	62,995	100,993	32	167,640	229,093	46	230,635
Other British Commonwealth.....	34	169,620	253,885	44	247,503	334,467	78	417,123
Belgium.....	—	—	—	1	13,244	14,716	1	13,244
Germany.....	1	782	1,552	1	5,810	8,532	2	6,592
Greece.....	1	2,150	3,829	—	—	—	1	2,150
Italy.....	—	—	—	1	3,205	5,851	1	3,205
Norway.....	—	—	—	1	6,450	11,400	1	6,450
Panama.....	—	—	—	2	7,517	12,370	2	7,517
<b>Totals .....</b>	<b>1,507</b>	<b>5,690,271</b>	<b>8,183,205</b>	<b>790</b>	<b>2,751,405</b>	<b>3,883,782</b>	<b>2,297</b>	<b>8,441,676</b>
<b>Destined to ports outside the Gulf of St. Lawrence:</b>								
Registry:								
Canada.....	55	286,477	465,706	13	42,164	67,698	68	328,841
United States.....	1	1,421	1,421	60	218,100	361,959	61	219,521
United Kingdom.....	78	287,885	486,501	188	647,325	1,142,726	248	915,210
Other British Commonwealth.....	3	2,817	6,717	9	32,988	60,609	12	35,805
Belgium.....	—	—	—	4	52,976	58,864	4	52,976
Denmark.....	11	7,387	14,689	7	18,606	34,532	18	25,993
Finland.....	—	—	—	10	3,585	6,617	10	3,585
France.....	1	944	1,843	32	138,150	256,226	33	139,094
Germany.....	32	83,865	137,568	217	579,969	977,718	249	663,834
Greece.....	13	76,108	114,501	27	130,204	211,499	40	206,312
Italy.....	—	—	—	18	70,403	124,736	18	70,403
Netherlands.....	4	12,267	21,038	80	148,972	257,445	64	161,239
Norway.....	36	142,179	256,930	231	850,423	1,492,762	267	992,602
Sweden.....	7	20,033	35,581	86	239,322	440,993	93	259,355
Other Europe.....	—	—	—	25	62,124	144,460	25	82,124
Panama.....	4	21,358	34,882	10	42,547	71,568	14	63,905
Middle East.....	4	14,653	23,645	17	48,793	89,803	21	63,456
Other Asia.....	1	4,427	7,211	28	148,069	251,472	29	152,498
Liberia.....	19	122,580	203,074	48	261,787	409,223	67	384,367
Other countries.....	—	—	—	1	9,366	14,112	1	9,366
<b>Totals .....</b>	<b>269</b>	<b>1,064,411</b>	<b>1,811,307</b>	<b>1,071</b>	<b>3,765,873</b>	<b>8,475,022</b>	<b>1,340</b>	<b>4,830,284</b>
<b>Grand totals — Downbound .....</b>	<b>1,776</b>	<b>8,754,682</b>	<b>9,974,512</b>	<b>1,861</b>	<b>6,317,278</b>	<b>10,358,804</b>	<b>3,637</b>	<b>13,271,960</b>

<sup>1</sup> 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 Rig<sup>1</sup>

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.....	1,042	5,477,990	7,912,522	822	1,717,437	2,443,644	88	38,392	41,005	1,952	7,233,819	10,397,171
United States.....	160	978,396	1,455,246	160	77,566	120,457	14	11,146	11,331	334	1,067,108	1,587,034
United Kingdom.....	88	379,496	603,512	200	738,496	1,321,767	—	—	—	288	1,117,992	1,925,279
Other British Commonwealth.....	82	424,018	601,783	11	44,815	80,417	—	—	—	93	468,833	682,200
Belgium.....	—	—	—	5	66,220	73,580	—	—	—	5	66,220	73,580
Denmark.....	—	—	—	20	30,442	57,496	—	—	—	20	30,442	57,496
Finland.....	—	—	—	13	5,219	10,059	—	—	—	13	5,219	10,059
France.....	—	—	—	34	142,920	265,180	—	—	—	34	142,920	265,180
Germany.....	1	6,890	11,969	253	663,073	1,116,771	—	—	—	254	669,963	1,128,740
Greece.....	19	108,581	163,856	24	104,842	174,811	—	—	—	43	213,423	338,667
Italy.....	4	15,078	26,300	15	56,784	101,475	—	—	—	19	71,862	127,775
Netherlands.....	5	22,493	38,984	62	145,390	260,113	—	—	—	67	167,883	299,097
Norway.....	5	24,327	44,063	259	969,607	1,693,113	—	—	—	264	993,934	1,737,176
Sweden.....	—	—	—	96	254,874	470,532	—	—	—	96	254,874	470,532
Other Europe.....	2	8,848	14,536	25	91,051	156,003	—	—	—	27	99,899	170,539
Panama.....	8	34,376	56,707	7	31,902	53,428	—	—	—	15	66,278	110,135
Middle East.....	1	5,322	8,193	18	49,550	91,397	—	—	—	19	54,872	99,590
Other Asia.....	2	9,314	14,367	27	143,069	241,681	—	—	—	29	152,383	256,048
Liberia.....	32	184,816	288,723	35	198,318	320,746	—	—	—	67	383,134	609,459
Other countries.....	2	1,878	4,478	5	26,141	36,342	—	—	—	7	26,019	42,820
Totals.....	1,453	7,891,623	11,245,239	2,081	3,557,716	9,089,012	102	49,538	52,336	3,646	13,289,077	20,386,587
Downbound:												
Canada.....	1,045	5,479,874	7,900,517	822	1,727,323	2,452,927	82	35,637	39,083	1,949	7,242,834	10,392,527
United States.....	158	953,909	1,424,445	168	90,008	133,779	19	18,171	16,332	345	1,060,088	1,574,556
United Kingdom.....	97	417,106	656,471	195	728,739	1,302,842	—	—	—	292	1,145,845	1,959,313
Other British Commonwealth.....	82	420,878	597,308	8	32,049	58,370	—	—	—	90	452,928	655,678
Belgium.....	—	—	—	5	66,220	73,580	—	—	—	5	66,220	73,580
Denmark.....	—	—	—	18	25,993	49,221	—	—	—	18	25,993	49,221
Finland.....	—	—	—	10	3,585	6,617	—	—	—	10	3,585	6,617
France.....	—	—	—	33	139,094	258,069	—	—	—	33	139,094	258,069
Germany.....	1	6,890	11,989	250	663,536	1,113,401	—	—	—	251	670,426	1,125,370
Greece.....	18	101,447	153,962	23	107,015	175,867	—	—	—	41	208,462	329,829
Italy.....	4	15,078	26,300	15	58,530	104,287	—	—	—	19	73,608	130,587
Netherlands.....	5	22,855	39,949	59	138,584	238,534	—	—	—	64	161,239	278,483
Norway.....	7	37,064	64,262	261	961,988	1,696,830	—	—	—	268	999,052	1,761,092
Sweden.....	—	—	—	93	259,355	478,574	—	—	—	93	259,355	478,574
Other Europe.....	—	—	—	25	82,124	144,460	—	—	—	25	82,124	144,460
Panama.....	8	34,376	56,707	8	37,046	62,113	—	—	—	18	71,422	118,820
Middle East.....	2	9,669	15,364	19	53,787	98,084	—	—	—	21	63,456	113,448
Other Asia.....	2	9,314	14,319	27	143,182	244,364	—	—	—	29	152,496	258,683
Liberia.....	34	196,312	306,862	33	188,055	305,435	—	—	—	67	384,367	612,297
Other countries.....	—	—	—	1	9,366	14,112	—	—	—	1	9,366	14,112
Totals.....	1,463	7,704,573	11,268,435	2,073	5,515,579	9,009,466	101	51,808	55,415	3,637	13,271,960	20,333,316
Grand totals.....	2,916	15,396,396	22,513,574	4,164	11,073,295	18,098,478	283	101,346	107,751	7,283	26,561,037	40,719,903

<sup>1</sup> 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 Length<sup>1</sup>

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
<b>Cargo vessel:</b>									
Under 80 feet	104	1,144	1,144	103	1,133	1,133	207	2,277	2,277
80 to 119 feet	—	—	—	—	—	—	—	—	—
120 " 159 "	56	18,917	36,416	55	11,487	23,124	111	30,404	59,540
160 " 199 "	5	2,439	4,356	6	3,189	4,127	11	5,828	8,483
200 " 239 "	19	8,615	15,645	16	7,699	13,291	35	16,314	28,936
240 " 279 "	364	521,095	794,708	370	533,887	809,693	734	1,054,982	1,604,401
280 " 319 "	150	205,177	346,665	148	206,534	344,446	298	411,711	691,111
320 " 359 "	220	447,356	720,738	211	429,987	694,291	431	877,343	1,415,029
360 " 399 "	202	453,553	778,911	197	440,237	754,582	399	893,790	1,533,493
400 " 439 "	331	1,020,933	1,755,417	333	1,023,318	1,756,220	664	2,044,251	3,511,637
440 " 479 "	287	1,088,455	1,883,554	286	1,088,750	1,888,154	573	2,177,205	3,771,708
480 " 519 "	301	1,579,478	2,597,045	303	1,588,857	2,613,803	604	3,168,335	5,210,848
520 " 559 "	179	1,059,819	1,583,641	180	1,058,437	1,571,087	359	2,118,256	3,154,728
560 " 599 "	37	245,402	353,118	35	232,588	335,976	72	477,990	689,094
600 " 639 "	173	1,270,898	1,816,790	179	1,317,081	1,883,119	352	2,587,979	3,699,909
640 " 679 "	98	856,707	1,191,688	93	824,958	1,140,189	191	1,681,665	2,331,877
880 " 759 "	257	3,202,805	4,460,641	258	3,216,777	4,479,200	515	6,419,582	8,939,841
<b>Totals</b>	<b>2,783</b>	<b>11,982,783</b>	<b>18,340,477</b>	<b>2,773</b>	<b>11,984,919</b>	<b>18,312,435</b>	<b>3,556</b>	<b>23,967,712</b>	<b>36,652,912</b>
<b>Barge or scow:</b>									
Under 80 feet	5	780	780	3	218	218	8	998	998
80 to 119 feet	2	297	404	3	493	493	5	790	897
120 " 159 "	1	508	508	4	2,311	2,311	5	2,819	2,819
<b>Totals</b>	<b>8</b>	<b>1,585</b>	<b>1,692</b>	<b>10</b>	<b>3,022</b>	<b>3,022</b>	<b>18</b>	<b>4,607</b>	<b>4,714</b>
<b>Tug and scow:</b>									
Under 80 feet	41	7,438	7,913	37	7,163	7,405	78	14,801	15,318
80 to 119 feet	20	6,913	7,307	21	7,596	8,016	41	14,509	15,323
120 " 159 "	16	10,295	10,295	14	9,473	9,647	30	19,768	19,942
160 " 199 "	—	—	—	3	1,906	1,963	3	1,906	1,963
200 " 239 "	8	7,642	7,827	7	8,822	8,867	15	16,464	16,694
240 " 279 "	9	15,685	17,302	7	11,632	14,301	16	27,297	31,603
400 " 439 "	—	—	—	2	2,194	2,194	2	2,194	2,194
<b>Totals</b>	<b>94</b>	<b>47,953</b>	<b>50,644</b>	<b>91</b>	<b>48,786</b>	<b>52,393</b>	<b>185</b>	<b>96,739</b>	<b>10,037</b>
<b>Tanker:</b>									
200 to 239 feet	6	1,511	3,551	6	1,511	3,551	12	3,022	7,102
240 " 279 "	233	297,296	460,940	231	294,534	457,691	464	591,830	918,631
280 " 319 "	20	32,218	50,627	20	32,214	50,624	40	64,432	101,251
320 " 359 "	58	149,818	208,534	61	156,333	219,062	119	306,151	427,596
360 " 399 "	46	122,845	201,544	47	126,123	205,371	93	248,968	406,915
400 " 439 "	17	60,766	92,409	15	55,029	82,340	32	115,795	174,749
440 " 479 "	4	13,384	22,571	5	16,713	28,456	9	30,097	51,027
480 " 519 "	38	196,121	340,279	35	178,218	313,171	73	374,339	653,450
520 " 559 "	32	210,251	351,638	32	210,575	351,944	64	420,826	703,582
560 " 599 "	11	91,107	141,209	11	91,107	141,209	22	182,214	282,416
600 " 639 "	2	12,860	30,600	2	12,860	30,600	4	25,720	61,200
<b>Totals</b>	<b>467</b>	<b>1,188,177</b>	<b>1,903,902</b>	<b>465</b>	<b>1,175,217</b>	<b>1,884,019</b>	<b>932</b>	<b>2,363,394</b>	<b>3,787,921</b>
<b>Tug or dredge:</b>									
Under 80 feet	40	1,640	2,158	39	1,355	1,856	79	2,995	4,014
80 to 119 feet	89	13,673	17,473	100	15,062	19,212	189	28,735	36,685
120 " 159 "	4	901	1,266	5	1,579	1,630	9	2,480	2,896
240 " 279 "	1	1,902	1,902	1	1,082	1,902	2	2,984	3,804
<b>Totals</b>	<b>134</b>	<b>18,116</b>	<b>22,799</b>	<b>145</b>	<b>19,078</b>	<b>24,600</b>	<b>279</b>	<b>37,194</b>	<b>47,399</b>
<b>Other vessels:</b>									
Under 80 feet	94	1,627	1,803	90	2,478	2,620	184	4,105	4,423
80 to 119 feet	18	2,447	3,169	10	1,340	2,981	28	3,787	6,150
120 " 159 "	30	7,916	13,956	34	9,384	14,637	64	17,300	28,593
180 " 199 "	9	3,448	8,727	11	6,030	10,322	20	9,478	19,049
280 " 319 "	4	8,012	8,012	4	8,012	8,012	8	16,024	16,024
320 " 359 "	2	3,603	8,006	2	1,772	2,984	4	5,375	10,990
360 " 399 "	1	2,800	2,800	—	—	—	1	2,800	2,800
440 " 479 "	1	7,800	7,800	2	11,922	15,291	3	19,722	23,091
520 " 559 "	1	12,800	12,800	—	—	—	1	12,800	12,800
<b>Totals</b>	<b>160</b>	<b>50,453</b>	<b>67,073</b>	<b>153</b>	<b>40,938</b>	<b>56,847</b>	<b>313</b>	<b>91,391</b>	<b>123,920</b>
<b>Grand totals</b>	<b>3,646</b>	<b>13,289,077</b>	<b>20,386,587</b>	<b>3,637</b>	<b>13,271,960</b>	<b>20,333,316</b>	<b>7,283</b>	<b>26,561,037</b>	<b>40,719,903</b>

<sup>1</sup> Excludes non-toll traffic using Lachine and Cornwall canals only.

TABLE 10. Number and Tonnage of Vessels Using the St. Lawrence Section of the Seaway by Kind and Draft<sup>1</sup>

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.....	104	1,144	1,144	103	1,133	1,133	207	2,277	2,277
6 to 7 feet.....	—	—	—	1	237	450	1	237	450
8 " 9 "	2	2,230	3,152	1	170	371	3	2,400	3,523
10 " 11 "	20	5,266	10,779	20	5,527	12,871	40	10,793	23,650
12 " 13 "	58	64,142	114,503	33	21,640	39,482	91	85,782	153,985
14 " 15 "	60	99,232	163,357	34	41,347	69,941	94	140,579	233,298
16 " 17 "	283	568,413	962,712	294	587,659	982,473	557	1,156,072	1,945,185
18 " 19 "	387	652,290	998,153	377	641,468	978,691	764	1,293,758	1,976,844
20 " 21 "	412	1,380,770	2,022,451	437	1,452,079	2,123,843	849	2,832,849	4,146,294
22 " 23 "	212	790,182	1,216,880	213	819,747	1,249,946	425	1,609,929	2,466,826
24 " 25 "	564	3,054,347	4,748,520	566	3,008,859	4,733,462	1,130	6,063,206	9,481,982
26 " 27 "	410	3,593,264	5,190,065	412	3,657,414	5,258,792	822	7,250,678	10,448,857
28 " 29 "	156	897,410	1,499,099	136	792,072	1,325,815	292	1,889,482	2,824,914
30 feet and over.....	135	874,103	1,409,662	146	955,567	1,535,165	281	1,829,670	2,944,827
Totals .....	2,783	11,982,793	18,340,477	2,773	11,984,919	18,312,435	5,556	23,967,712	36,652,912
Barge or scow:									
5 feet and under.....	8	1,585	1,692	7	1,557	1,557	15	3,142	3,249
6 to 7 feet.....	—	—	—	1	84	84	1	84	84
8 " 9 "	—	—	—	1	626	626	1	626	626
12 " 13 "	—	—	—	1	755	755	1	755	755
Totals .....	8	1,585	1,692	10	3,022	3,022	18	4,607	4,714
Tug and scow:									
5 feet and under.....	31	7,743	8,053	32	8,989	9,334	63	16,732	17,387
6 to 7 feet.....	8	2,616	2,882	11	5,340	5,561	19	7,956	8,443
8 " 9 "	32	10,903	11,196	25	8,411	8,538	57	19,314	19,734
10 " 11 "	12	9,319	9,459	13	12,419	12,503	25	21,738	21,962
12 " 13 "	2	1,338	1,338	2	989	1,105	4	2,327	2,443
14 " 15 "	1	1,006	1,051	1	1,006	1,051	2	2,012	2,102
16 " 17 "	7	12,908	14,545	5	8,359	10,124	12	21,267	24,669
18 " 19 "	1	2,120	2,120	2	3,273	4,177	3	5,393	6,297
Totals .....	94	47,953	50,644	91	48,786	52,393	185	96,739	103,037
Tanker:									
8 to 9 feet.....	1	1,111	1,576	—	—	—	1	1,111	1,576
10 " 11 "	5	935	2,500	5	935	2,500	10	1,870	5,000
12 " 13 "	40	47,844	69,554	40	47,844	69,553	80	95,688	139,107
14 " 15 "	77	105,886	148,179	77	106,239	148,916	154	212,125	297,095
16 " 17 "	96	168,402	280,922	96	168,710	280,755	192	337,112	561,877
18 " 19 "	51	60,293	106,043	52	61,812	108,561	103	122,105	214,604
20 " 21 "	18	33,765	52,153	16	30,429	46,017	34	64,194	98,170
22 " 23 "	33	96,844	150,535	27	74,928	115,090	60	171,772	265,625
24 " 25 "	31	116,145	184,362	38	137,059	217,969	69	253,204	402,331
26 " 27 "	49	164,150	245,604	54	176,616	269,344	103	340,766	514,948
28 " 29 "	35	176,122	299,535	30	160,538	273,448	65	336,660	572,983
30 feet and over.....	31	216,680	362,939	30	210,107	351,866	61	426,787	714,805
Totals .....	467	1,188,177	1,903,902	465	1,175,217	1,884,019	932	2,363,394	3,787,921
Tug or dredge:									
5 feet and under.....	11	95	124	11	111	134	22	206	256
6 to 7 feet.....	16	364	464	16	865	1,056	32	1,229	1,520
8 " 9 "	23	1,656	2,387	30	1,882	2,884	53	3,538	5,271
10 " 11 "	18	2,535	3,371	26	3,829	4,933	44	6,364	8,304
12 " 13 "	59	10,225	12,847	53	9,422	11,707	112	19,647	24,554
14 " 15 "	5	2,974	2,974	5	1,289	1,289	10	4,263	4,263
16 " 17 "	2	267	632	3	1,664	2,535	5	1,931	3,167
18 " 19 "	—	—	—	1	16	62	1	16	62
Totals .....	134	18,116	22,799	145	19,078	24,600	279	37,194	47,399
Other vessels:									
5 feet and under.....	92	1,946	2,176	92	3,418	3,553	184	5,364	5,729
6 to 7 feet.....	21	2,848	5,627	14	2,071	3,945	35	4,919	9,572
8 " 9 "	14	3,854	4,040	12	4,148	4,228	26	8,002	8,268
10 " 11 "	14	3,782	6,995	16	5,726	9,204	30	9,508	16,199
12 " 13 "	9	4,390	8,225	11	5,615	9,402	20	10,005	17,827
14 " 15 "	3	6,104	7,316	2	3,304	4,516	5	9,408	11,832
16 " 17 "	3	2,374	4,348	3	2,374	4,348	6	4,748	8,596
18 " 19 "	3	12,355	15,546	2	10,160	10,160	5	22,515	25,706
20 " 21 "	1	12,800	12,800	—	—	—	1	12,800	12,800
22 " 23 "	—	—	—	1	4,122	7,491	1	4,122	7,491
Totals .....	160	50,453	67,073	153	40,938	56,847	313	91,391	123,920
Grand totals .....	3,646	13,289,077	20,388,587	3,637	13,271,960	20,333,316	7,283	26,561,037	40,719,903

<sup>1</sup> 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 Unloading<sup>1</sup>

Country of loading	Cargo unloaded								
	In Canada			In United States			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
<b>Ports on the St. Lawrence river:</b>									
Canada .....	1,871,616	296	1,871,912	12,499,040	252,533	12,751,573	14,370,656	252,829	14,623,485
United States .....	—	—	—	19,632	—	19,632	19,632	—	19,632
<b>Totals</b> .....	<b>1,871,616</b>	<b>296</b>	<b>1,871,912</b>	<b>12,518,672</b>	<b>252,533</b>	<b>12,771,205</b>	<b>14,390,288</b>	<b>252,829</b>	<b>14,843,117</b>
<b>Ports outside the Gulf of St. Lawrence:</b>									
Canada Atlantic ports .....	455,347	497	455,844	20,958	89,760	110,718	478,305	90,257	586,562
United States Atlantic and Gulf ports .....	47,357	129	47,486	67,927	5,164	73,091	115,284	5,293	120,577
United States Pacific ports .....	10	8,543	8,553	—	—	—	10	8,543	8,553
United Kingdom .....	34,444	147,131	181,575	25,961	188,387	214,348	60,405	335,518	395,923
Other British Commonwealth .....	139,146	21,468	160,614	75,563	48,957	124,520	214,709	70,425	285,134
Belgium .....	7,061	98,901	105,962	14,702	515,724	530,426	21,783	614,625	636,388
Denmark .....	356	1,838	2,194	353	4,867	5,220	709	6,705	7,414
Finland .....	167	1,259	1,426	60,975	10,821	71,796	61,142	12,080	73,222
France .....	510	17,461	17,971	71,664	59,057	130,721	72,174	78,518	148,692
Germany .....	27,663	57,212	64,875	6,011	210,061	216,072	33,674	267,273	300,947
Greece .....	—	460	460	19,814	752	20,566	19,814	1,212	21,026
Italy .....	33,473	29,940	63,413	5,552	28,179	33,731	39,025	58,119	97,144
Netherlands .....	4,559	18,901	23,460	14,836	35,445	50,281	19,395	54,346	73,741
Norway .....	4,095	10,378	14,473	21,168	21,465	42,633	25,263	31,843	57,106
Portugal .....	6,654	7,029	13,683	1,665	5,025	6,890	8,319	12,054	20,373
Sweden .....	255	9,083	10,058	17,878	22,571	40,449	18,133	32,374	50,507
Other Europe .....	469	20,410	20,879	34,420	26,215	60,635	34,889	46,625	81,514
Panama .....	27,579	—	27,579	—	—	—	27,579	—	27,579
Central America and Caribbean .....	174,763	290	175,053	43,375	—	43,375	218,138	—	218,428
South America .....	138,477	6,860	145,337	51,976	12,541	64,517	190,453	19,401	209,854
Middle East .....	—	5,796	5,796	39	1,124	1,163	39	6,920	6,959
Other Asia .....	392	30,139	30,531	1,077	331,716	332,793	1,469	361,855	363,324
Other Africa .....	45,064	5,824	50,888	26,157	8,646	34,803	71,221	14,470	85,691
Other countries .....	34,972	2,859	37,831	—	—	—	34,972	2,859	37,831
<b>Totals</b> .....	<b>1,182,813</b>	<b>503,128</b>	<b>1,685,941</b>	<b>582,071</b>	<b>1,626,477</b>	<b>2,208,548</b>	<b>1,764,884</b>	<b>2,129,605</b>	<b>3,894,489</b>
In transit freight .....	—	—	—	—	—	—	—	—	37,903
<b>Grand totals — Upbound</b> .....	<b>3,054,429</b>	<b>503,424</b>	<b>3,557,853</b>	<b>13,100,743</b>	<b>1,879,010</b>	<b>14,979,753</b>	<b>16,155,172</b>	<b>2,382,434</b>	<b>18,575,509</b>

<sup>1</sup> Excludes non-toll traffic using Lachine and Cornwall canals only.TABLE 11 B. Cargo Tons Carried Downbound on the St. Lawrence Section of the Seaway by Country of Loading and Unloading<sup>1</sup>

Country of unloading	Cargo unloaded								
	In Canada			In United States			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
<b>Ports on the St. Lawrence river:</b>									
Canada .....	9,560,198	205	9,560,403	3,892,328	11,781	3,904,109	13,452,526	11,986	13,464,512
United States .....	—	—	—	72,332	—	72,332	72,332	—	72,332
<b>Totals</b> .....	<b>9,560,198</b>	<b>205</b>	<b>9,560,403</b>	<b>3,964,660</b>	<b>11,781</b>	<b>3,976,441</b>	<b>13,524,858</b>	<b>11,986</b>	<b>13,536,844</b>
<b>Ports outside the Gulf of St. Lawrence:</b>									
Canada Atlantic ports .....	245,101	1,625	246,726	9,231	168	9,399	254,332	1,793	256,125
United States Atlantic and Gulf ports .....	8,082	10,588	18,870	—	—	—	8,082	10,588	18,670
United Kingdom .....	551,823	117,328	669,151	848,546	83,217	931,763	1,400,369	200,545	1,600,914
Other British Commonwealth .....	8,683	54,926	63,609	47,875	122,431	170,306	56,558	177,357	233,915
Belgium .....	13,678	5,579	19,257	325,242	43,263	368,505	338,920	48,842	387,762
Denmark .....	80	1,073	1,153	157,279	14,089	171,368	157,359	15,162	172,521
Finland .....	12	605	617	1,557	6,109	7,666	1,589	6,714	8,283
France .....	15,504	11,090	26,594	110,984	32,911	143,895	126,488	44,001	170,489
Germany .....	64,456	24,934	89,390	747,740	63,995	811,735	812,196	88,929	901,125
Greece .....	—	3,081	3,081	19,148	3,845	22,993	19,148	6,926	26,074
Italy .....	10,014	19,809	29,823	256,843	33,928	290,771	266,857	53,737	320,594
Netherlands .....	79,805	19,054	98,859	1,519,285	240,329	1,759,614	1,599,090	259,383	1,858,473
Norway .....	14,623	1,936	16,561	100,653	6,834	107,487	115,276	8,772	124,046
Portugal .....	—	511	511	5,012	1,621	6,633	5,012	2,132	7,144
Sweden .....	52	7,277	7,329	12,323	23,165	35,488	12,375	30,442	42,817
Other Europe .....	106,620	12,853	119,473	153,591	43,478	197,069	260,211	56,331	316,542
Central America and Caribbean .....	1,771	1,753	3,524	32,126	1,400	33,526	33,897	3,153	37,050
South America .....	14,712	20,819	35,531	87,114	57,012	124,126	81,826	77,831	159,657
Middle East .....	—	2,805	2,805	53,831	50,484	104,315	53,831	53,289	107,120
Other Asia .....	82,928	14,063	96,991	174,357	84,018	258,375	257,285	98,081	355,366
Other Africa .....	26,425	3,841	30,266	61,103	14,389	75,492	87,528	18,230	105,758
<b>Totals</b> .....	<b>1,244,369</b>	<b>335,552</b>	<b>1,579,921</b>	<b>4,703,840</b>	<b>926,686</b>	<b>5,630,526</b>	<b>5,948,209</b>	<b>1,262,238</b>	<b>7,210,447</b>
In transit freight .....	—	—	—	—	—	—	—	—	30,799
<b>Grand totals — Downbound</b> .....	<b>10,804,567</b>	<b>335,757</b>	<b>11,140,324</b>	<b>8,668,500</b>	<b>936,467</b>	<b>9,606,967</b>	<b>19,473,067</b>	<b>1,274,224</b>	<b>20,778,090</b>

<sup>1</sup> 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 Vessel<sup>1</sup>

Loaded at	Registry of vessel	Cargo tons		
		Bulk	General	Total
Ports on the St. Lawrence river .....	Canada .....	11,319,600	252,827	11,572,427
	United States .....	2,141,927	—	2,141,927
	United Kingdom .....	301,759	—	301,759
	Other British Commonwealth .....	627,002	—	627,002
	Other European Countries .....	—	2	2
	<b>Totals .....</b>	<b>14,390,288</b>	<b>252,829</b>	<b>14,643,117</b>
Ports outside the Gulf of St. Lawrence .....	Canada .....	454,372	15,863	470,235
	United States .....	62,457	68,592	131,049
	United Kingdom .....	262,932	378,148	641,080
	Other British Commonwealth .....	16,977	9,746	26,723
	Belgium .....	417	802	1,219
	Denmark .....	9,947	17,877	27,824
	Finland .....	72	3,095	3,167
	France .....	40,144	29,948	70,092
	Germany .....	58,126	550,034	608,160
	Greece .....	126,338	53,393	179,731
	Italy .....	1,900	37,177	39,077
	Netherlands .....	20,183	127,720	147,903
	Norway .....	333,525	391,344	724,869
	Sweden .....	36,948	97,181	134,129
	Other Europe .....	30,820	41,665	72,485
	Panama .....	29,819	25,355	55,174
	South American .....	2,544	85	2,629
	Middle East .....	1,240	21,770	23,010
	Other Asian .....	114	145,441	145,555
	Liberia .....	270,806	104,836	375,642
	Other African .....	5,203	2,545	7,748
	Other countries .....	—	6,988	6,988
	<b>Totals .....</b>	<b>1,764,884</b>	<b>2,129,605</b>	<b>3,894,489</b>
In transit freight .....	—	—	—	37,903
<b>Grand totals — Upbound .....</b>		<b>16,155,172</b>	<b>2,382,434</b>	<b>18,575,509</b>

<sup>1</sup> Excludes non-toll traffic using Lachine and Cornwall canals only.TABLE 12 B. Cargo Tons Carried Downbound on the St. Lawrence Section of the Seaway by Country of Registry of Vessel<sup>1</sup>

Unloaded at	Registry of vessel	Cargo tons		
		Bulk	General	Total
Ports on the St. Lawrence river .....	Canada .....	11,344,927	11,986	11,356,913
	United States .....	836,330	—	836,330
	United Kingdom .....	431,594	—	431,594
	Other British Commonwealth .....	876,018	—	876,018
	Belgium .....	12,712	—	12,712
	Germany .....	3,036	—	3,036
	Italy .....	9,858	—	9,858
	Norway .....	10,383	—	10,383..
	<b>Totals .....</b>	<b>13,524,858</b>	<b>11,986</b>	<b>13,536,844</b>
Ports outside the Gulf of St. Lawrence .....	Canada .....	223,539	13,367	236,906
	United States .....	106,786	136,270	243,056
	United Kingdom .....	1,171,465	146,161	1,317,626
	Other British Commonwealth .....	6,473	36,606	43,079
	Belgium .....	63,799	—	63,799
	Denmark .....	34,571	20,551	55,122
	Finland .....	944	7,105	8,049
	France .....	268,015	14,060	282,075
	Germany .....	852,374	277,815	1,130,189
	Greece .....	264,224	33,426	297,650
	Italy .....	130,992	11,137	142,129
	Netherlands .....	186,891	68,252	255,143
	Norway .....	1,563,859	176,189	1,740,048
	Sweden .....	280,648	132,838	413,486
	Other European Countries .....	102,215	53,659	155,874
	Panama .....	104,583	116	104,699
	Middle East Countries .....	54,567	30,214	84,781
	Other Asian Countries .....	48,499	90,002	138,501
	Liberia .....	469,814	14,470	484,284
	Pacific and Indian Ocean Islands .....	13,951	—	13,951
	<b>Totals .....</b>	<b>5,948,209</b>	<b>1,262,238</b>	<b>7,210,447</b>
In transit freight .....	—	—	—	30,799
<b>Grand totals — Downbound .....</b>		<b>19,473,067</b>	<b>1,274,224</b>	<b>20,778,090</b>

<sup>1</sup> 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 Vessels<sup>1</sup>

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	124	52	176	25,519	4,610	30,129	579.4	133	43	176	12,452	10,348	22,800	530.2					
1,000 to 1,999 .....	15	115	130	53,214	107,899	161,113	1,401.0	8	122	130	145,334	110,066	255,400	2,093.4					
2,000 " 2,999 .....	168	328	496	294,732	472,127	766,859	2,338.0	28	463	491	1,131,449	198,361	1,329,810	2,872.2					
3,000 " 3,999 .....	53	183	236	366,232	235,016	601,248	3,285.5	3	233	236	900,754	138,091	1,038,845	4,458.6					
4,000 " 4,999 .....	74	186	260	256,967	296,578	553,545	2,976.0	13	245	258	999,114	193,342	1,192,456	4,867.2					
5,000 " 5,999 .....	42	128	170	447,469	175,455	622,924	4,866.6	8	158	166	858,423	104,086	962,509	6,091.8					
6,000 " 6,999 .....	38	231	269	855,316	197,508	1,052,626	4,557.7	3	267	270	1,612,836	168,676	1,781,512	6,872.3					
7,000 " 7,999 .....	50	124	174	642,903	199,671	842,574	6,795.0	3	168	171	1,454,149	61,902	1,516,051	9,024.1					
8,000 " 8,999 .....	43	118	161	633,081	286,196	919,277	7,790.5	13	152	165	1,279,987	136,360	1,416,347	9,318.1					
9,000 " 9,999 .....	19	80	99	465,121	247,627	712,748	8,909.4	7	92	99	730,391	139,982	870,373	9,460.6					
10,000 " 10,999 .....	27	109	136	1,473,046	56,650	1,529,696	14,033.9	27	110	137	1,467,734	5,909	1,473,643	13,396.6					
11,000 " 11,999 .....	26	78	104	1,182,582	59,869	1,242,451	15,928.9	23	79	102	1,064,822	10,274	1,075,096	13,608.8					
12,000 " 12,999 .....	18	56	74	793,684	45,856	839,540	14,991.8	4	68	72	1,028,110	—	1,028,110	15,119.3					
13,000 " 13,999 .....	5	30	35	619,405	—	619,405	20,646.8	2	33	35	628,287	—	628,287	19,039.0					
14,000 " 14,999 .....	6	2	8	417	802	1,219	609.5	—	9	9	138,725	—	138,725	15,413.9					
15,000 " 15,999 .....	1	23	24	532,081	—	532,081	23,134.0	1	23	24	508,570	—	508,570	22,111.7					
16,000 " 16,999 .....	4	19	23	477,858	—	477,858	25,150.4	4	19	23	428,995	—	428,995	22,578.7					
17,000 and over .....	12	196	208	5,105,086	—	5,105,086	26,046.4	40	169	209	4,336,898	—	4,336,898	25,662.1					
Totals .....	725	2,058	2,783	14,224,715	2,385,884	16,610,579	8,071.2	320	2,453	2,773	18,727,030	1,277,397	20,004,427	8,155.1					
Barge or snow:																			
Under 1,000 gross tons	8	—	8	—	—	—	—	10	—	10	—	—	—	—	—	—	—	—	
Tug and snow:																			
Under 1,000 gross tons	79	2	81	116	—	116	58.0	73	2	75	600	—	600	300.0					
1,000 to 1,999 .....	6	—	6	—	—	—	—	4	6	10	15,558	—	15,558	2,593.0					
2,000 " 2,999 .....	6	1	7	2,247	—	2,247	2,247.0	4	2	6	3,209	—	3,209	1,604.5					
Totals .....	91	3	94	2,363	—	2,363	787.7	81	10	91	19,367	—	19,367	1,936.7					
Tanker:																			
Under 1,000 gross tons	—	5	5	2,844	—	2,844	568.8	5	—	5	—	—	—	—	—	—	—	—	
1,000 to 1,999 .....	4	101	105	284,557	—	284,557	2,817.4	94	10	104	24,199	—	24,199	2,419.9					
2,000 " 2,999 .....	2	148	150	486,531	—	486,531	3,287.4	138	11	149	40,287	—	40,287	3,662.5					
3,000 " 3,999 .....	2	33	35	191,231	—	191,231	5,794.9	36	2	38	7,328	—	7,328	3,669.0					
4,000 " 4,999 .....	1	59	60	362,222	—	362,222	6,139.4	58	2	60	6,838	—	6,838	6,838					
5,000 " 5,999 .....	8	21	29	107,183	—	107,183	5,104.0	9	20	29	140,946	12	140,958	7,047.9					
8,000 " 8,999 .....	12	15	27	36,339	—	36,339	2,422.6	—	25	25	263,651	—	263,651	10,546.0					
9,000 " 9,999 .....	3	7	10	50,669	—	50,669	7,238.4	4	6	10	72,331	2	72,331	12,055.5					
10,000 " 10,999 .....	9	11	20	131,774	24	131,798	11,981.6	6	12	18	147,292	—	147,292	12,274.3					
11,000 " 11,999 .....	2	12	14	158,732	—	158,732	13,227.7	13	2	15	26,356	—	26,356	13,178.0					
12,000 " 12,999 .....	1	5	6	60,035	1,100	61,135	12,227.0	4	2	6	25,054	—	25,054	12,527.0					
13,000 " 13,999 .....	—	4	4	57,777	—	57,777	14,444.3	4	—	4	—	—	—	—	—	—	—	—	
15,000 " 15,999 .....	—	2	2	31,549	—	31,549	15,774.5	2	—	2	—	—	—	—	—	—	—	—	
Totals .....	44	423	467	1,961,443	1,124	1,962,367	4,639.6	373	92	465	754,282	14	754,296	8,198.9					
Other vessels:																			
Under 1,000 gross tons	281	—	281	—	—	—	288	—	288	—	—	—	—	—	—	—	—	—	
1,000 to 1,999 .....	7	—	7	—	—	—	6	—	6	—	—	—	—	—	—	—	—	—	
2,000 " 2,999 .....	3	—	3	—	—	—	2	—	2	—	—	—	—	—	—	—	—	—	
5,000 " 5,999 .....	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
7,000 " 7,999 .....	1	—	1	—	—	—	—	2	—	2	—	—	—	—	—	—	—	—	
12,000 " 12,999 .....	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Totals .....	294	—	294	—	—	—	298	—	298	—	—	—	—	—	—	—	—	—	
Grand totals .....	1,162	2,484	3,646	16,188,521	2,386,988	18,575,309	7,478.1	1,082	2,355	3,637	19,500,679	1,277,411	20,778,090	8,132.3					

<sup>1</sup> 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 Unloading<sup>1</sup>

No.	Commodity	Canada to		United States to		United Kingdom to	
		Canada	United States	Canada	United States	Canada	United States
tons							
1	Food, feed, beverages and tobacco:						
1	Meat and meat preparations .....	—	—	—	—	230	—
2	Fish and marine animals .....	—	—	4	—	203	98
3	Barley .....	—	27,764	—	—	—	—
4	Fruits and fruit preparations .....	—	2	1,495	—	1,787	1,207
5	Vegetables and vegetable preparations .....	—	—	10	—	149	—
6	Sugar .....	—	—	—	—	—	—
7	Molasses, crude and refined .....	—	—	—	—	—	—
8	Sugar preparations (including confectionery) .....	—	—	—	—	2,916	1,022
9	Miscellaneous foods (materials and preparations) .....	—	—	130	—	1,353	358
10	Ale, beer and wines .....	—	—	—	—	1,645	1,200
11	Distilled alcoholic beverages .....	—	—	—	—	3,055	30,749
12	Food, feed, beverages and tobacco, n.e.s. ....	—	3,490	69	—	4,066	488
13	<b>Totals</b> .....	—	<b>31,256</b>	<b>1,708</b>	—	<b>15,404</b>	<b>35,122</b>
Crude materials, inedible:							
14	Rubber, natural .....	—	—	—	—	114	—
15	Crude vegetable materials, inedible, n.e.s. ....	—	—	—	—	1,656	3,677
16	Logs and round timber .....	3,112	3,313	—	—	—	—
17	Pulpwood .....	172,240	78,975	—	—	—	—
18	Textile and related fibres (including waste) .....	—	—	—	—	2,530	292
19	Aluminium ore and concentrates .....	—	—	—	—	—	—
20	Iron ore .....	23,527	12,091,274	—	—	—	—
21	Metallic ores and concentrates, n.e.s. ....	—	19,845	—	—	—	5
22	Coal, bituminous .....	410,873	—	—	—	—	—
23	Crude petroleum .....	—	—	—	—	—	—
24	Clay and bentonite .....	—	1,312	—	—	14,373	12,449
25	Stone, crushed and broken .....	3,136	—	—	—	—	—
26	Fluorspar .....	7,309	24,907	47,306	27,666	20	—
27	Gypsum .....	46,389	—	—	—	—	—
28	Phosphate rock .....	7,201	—	—	—	—	—
29	Sulphur .....	—	56,900	—	4,828	—	—
30	Non-metallic minerals, crude, n.e.s. ....	—	3,644	—	3,884	766	169
31	Crude materials, inedible, n.e.s. ....	—	—	—	—	479	313
32	<b>Totals</b> .....	<b>673,787</b>	<b>12,280,170</b>	<b>47,306</b>	<b>36,378</b>	<b>19,938</b>	<b>15,919</b>
Fabricated materials, inedible:							
33	Wood fabricated materials .....	—	10	—	—	264	33
34	Woodpulp .....	1,950	9,652	—	—	—	—
35	Newsprint paper .....	497	337,127	—	—	—	—
36	Paper and paperboard, n.e.s. ....	—	—	—	—	899	178
37	Cordage, twine and rope .....	—	—	129	1,837	947	1,749
38	Fish and animal oils .....	575	—	—	—	83	44
39	Vegetable oils and fats, n.e.s. ....	—	—	7	—	5,291	591
40	Chemicals .....	651	—	149	—	6,029	8,498
41	Fertilizers .....	—	—	—	—	17	—
42	Chemical products, n.e.s. ....	159,158	—	—	—	9,301	3,110
43	Gasoline .....	57,307	—	—	—	—	—
44	Fuel oil .....	1,152,179	40,532	—	34,585	17	—
45	Lubricating oils and greases .....	22,809	—	—	16,596	25	—
46	Ferro-alloys .....	—	—	—	—	1,652	33
47	Pig iron .....	6,569	161,880	—	—	—	—
48	Iron and steel: ingot, bar, rod, etc. ....	—	—	—	—	5,274	42,182
49	Steel: plate, sheet and strip .....	—	1,155	6,734	3,327	11,337	10,477
50	Structural shapes and sheet piling .....	560	—	—	—	34,080	28,685
51	Iron and steel: pipes, tubes and fittings .....	—	—	—	—	6,602	5,908
52	Iron and steel: wire and wire rope .....	—	—	—	—	2,430	14,047
53	Iron and steel, n.e.s. ....	—	—	—	—	697	232
54	Aluminium: bar, ingot, pig and slab .....	2,606	455	—	—	182	—
55	Non-ferrous metals and alloys, n.e.s. ....	—	—	—	—	1,160	1,395
56	Metal fabricated basic products, n.e.s. ....	—	—	—	—	3,361	7,931
57	Glass: plate, sheet and structural .....	—	—	—	—	4,646	7,436
58	Cement .....	—	—	—	—	202	—
59	Miscellaneous fabricated materials, n.e.s. ....	2,651	—	—	—	8,739	1,844
60	<b>Totals</b> .....	<b>1,407,512</b>	<b>550,811</b>	<b>7,019</b>	<b>56,345</b>	<b>103,235</b>	<b>134,373</b>
End products, inedible:							
61	Machinery, equipment and parts .....	116	—	6	—	15,067	11,786
62	Motor vehicles and parts .....	—	—	—	—	6,844	9,638
63	End products, inedible, n.e.s. ....	—	—	—	—	1,887	1,826
64	<b>Totals</b> .....	<b>116</b>	<b>—</b>	<b>8</b>	<b>—</b>	<b>23,798</b>	<b>23,250</b>
65	Miscellaneous freight, n.e.s. ....	26,138	54	—	—	19,200	4,693
66	Domestic package freight .....	220,203	—	—	—	—	—
67	In transit freight .....	..	..	..	..	..	..
68	<b>Grand totals — Upbound</b> .....	<b>2,327,756</b>	<b>12,862,291</b>	<b>56,039</b>	<b>92,723</b>	<b>181,575</b>	<b>214,348</b>

<sup>1</sup> 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 Unloading<sup>1</sup>

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								
1,429	523	200	1,204	298	357	2,157	2,084	4,241 1
32	27	1,456	3,344	888	2,307	2,583	5,776	8,359 2
—	8,800	—	28,038	—	—	—	64,602	64,602 3
3,458	3,668	13,314	18,109	4,401	7,513	24,455	30,499	54,954 4
—	16	6,871	2,979	65	454	7,095	3,449	10,544 5
61,104	—	—	—	45,352	11,227	106,456	11,227	117,683 6
26,190	16,240	—	—	14,302	4,370	40,492	20,610	61,102 7
55	—	3,116	1,256	601	1,130	6,682	3,408	10,096 8
452	148	2,400	973	304	695	4,639	2,174	6,813 9
87	24	6,818	36,026	142	268	8,692	37,518	46,210 10
90	819	620	1,706	5	6	3,770	33,280	37,050 11
259	728	5,304	2,310	6,770	14,843	16,468	21,859	38,327 12
93,156	30,993	40,099	95,945	73,128	43,170	223,495	236,486	459,981 13
9,416	33,386	—	—	3,107	32,272	12,637	65,658	76,295 14
105	1,607	2,113	3,533	4,519	4,464	8,393	13,281	21,674 15
—	221	—	25	2,841	809	5,953	4,368	10,321 16
—	—	—	—	—	—	172,240	78,975	251,215 17
573	683	1,254	159	6,097	2,056	10,454	3,190	13,644 18
10,925	—	—	19,814	36,310	37,482	47,235	57,296	104,531 19
—	—	—	—	—	—	23,527	12,091,274	12,114,801 20
17,032	39,686	—	10,721	607	—	17,639	70,257	87,896 21
—	—	—	—	—	—	410,873	—	410,873 22
9,887	—	—	—	83,759	—	93,646	—	93,646 23
—	—	13	—	—	—	14,386	13,761	28,147 24
—	—	4,993	3,862	—	14	8,129	3,876	12,005 25
—	—	—	24,696	—	—	54,635	77,269	131,904 26
—	—	—	—	—	—	46,389	—	46,389 27
—	—	20	—	22,634	—	29,835	—	29,835 28
—	9,951	641	6,210	58	170	16,548	20	78,276 29
225	210	1,485	5,749	199	1,768	1,465	24,028	25,493 30
—	—	—	—	—	—	2,388	8,045	10,433 31
38,163	85,744	10,519	74,769	160,131	95,583	959,644	12,389,554	13,549,398 32
1,036	572	719	9,803	9,227	29,682	12,246	40,100	52,346 33
—	—	6	26,376	—	—	1,956	36,028	37,984 34
—	—	—	—	—	—	497	337,127	337,624 35
3	—	3,511	12,274	102	72	4,515	12,424	16,939 36
—	—	3,630	16,079	1,540	323	6,246	19,988	26,234 37
—	—	129	6,221	—	11	787	6,276	7,063 38
2,700	—	1,493	9,879	3,539	6,249	13,030	16,719	29,749 39
—	—	11,740	9,384	3,911	1,574	22,480	19,456	41,936 40
—	—	4,542	753	11,355	376	15,914	1,129	17,043 41
331	1,499	10,086	5,349	594	633	179,470	10,591	190,061 42
—	—	36,532	—	—	—	93,839	—	93,839 43
—	—	16,490	—	192,142	35,949	1,360,828	111,066	1,471,894 44
11,396	—	15	1	—	—	34,245	16,597	50,842 45
—	—	325	42,809	—	844	1,977	43,686	45,663 46
—	—	10,008	82,976	—	—	16,577	244,856	261,433 47
—	—	34,060	100,851	35	74,148	39,369	217,181	256,550 48
—	—	6,508	113,642	1,084	61,664	25,663	190,265	215,928 49
—	—	77,160	344,172	220	35,787	112,020	408,644	520,664 50
—	—	5,113	10,387	1,808	6,167	13,523	22,462	35,985 51
—	—	12,364	89,731	369	17,205	15,163	120,983	136,146 52
—	—	537	2,829	250	596	1,484	3,657	5,141 53
—	—	558	14,548	29	239	3,375	15,242	18,617 54
1,571	2,735	6,414	6,913	399	1,589	9,544	12,632	22,176 55
135	200	6,139	15,204	3,989	48,728	13,624	72,063	85,687 56
27	89	8,717	29,592	139	903	13,529	38,020	51,549 57
—	—	1,073	621	—	—	1,275	621	1,896 58
34	1,574	5,073	6,236	3,087	8,662	19,584	18,316	37,900 59
18,233	6,669	262,942	956,530	233,819	331,401	2,032,760	2,036,129	4,068,889 60
30	—	12,762	17,560	543	570	28,524	29,916	58,440 61
5	33	18,066	48,621	591	922	23,506	60,214	83,720 62
113	130	1,663	1,959	1,568	1,208	5,231	5,023	10,254 63
148	63	30,491	69,140	2,702	2,700	57,261	95,153	152,414 64
914	1,051	14,803	12,836	3,235	3,797	64,290	22,431	86,721 65
—	—	—	—	—	—	220,203	—	220,203 66
..	..	..	..	..	..	..	..	37,903 67
160,614	124,520	358,854	1,209,220	473,015	476,651	3,557,853	14,979,753	18,575,509 68

TABLE 14 B. Commodities Carried Downbound on the St. Lawrence Section of the Seaway by Country of Loading and Unloading<sup>1</sup>

No.	Commodity	Canada to						
		Canada	United States	United Kingdom	Other British Commonwealth	Other Europe	Other countries	Total
tons								
Food, feed, beverages and tobacco:								
1 Meat and meat preparations .....	12	—	2,353	1,348	850	57	4,620	
2 Butter .....	—	—	—	—	—	—	—	—
3 Milk powder .....	454	—	—	141	2,216	20	2,831	
4 Barley .....	357,183	8,082	77,302	—	—	—	—	442,567
5 Corn .....	13,958	—	—	—	—	—	—	13,958
6 Oats .....	294,141	—	11,746	—	5,445	3,991	315,323	
7 Rye .....	25,042	—	1,400	—	41,153	—	67,595	
8 Wheat .....	8,063,857	—	37,839	4,361	136,677	9,742	8,252,476	
9 Cereals, unmilled, n.e.s. ....	3,726	—	1	—	2,202	—	—	5,929
10 Corn meal .....	—	—	—	—	—	126	126	
11 Malt .....	53,573	—	453	1,846	—	3,757	59,629	
12 Wheat flour .....	16,607	—	50,478	816	5	21,331	89,237	
13 Grain, flour, meal and cereals, n.e.s. ....	49	—	219	2	29	175	474	
14 Beans and peas, dried .....	46,374	—	14,735	193	—	—	61,302	
15 Margarine, shortening and lard .....	—	—	—	—	—	—	—	—
16 Soyabean oil cake and meal .....	1,384	—	169,566	—	—	—	170,950	
17 Fodder and feed, n.e.s. ....	39,611	—	73,657	316	11,894	3,456	126,936	
18 Food, beverages and tobacco, n.e.s. ....	1,515	—	24,053	2,862	4,353	426	33,209	
19 Totals .....	8,917,486	8,082	463,802	11,887	204,824	43,081	9,649,162	
Crude materials, inedible:								
20 Raw hides and skins .....	—	—	1,180	—	14,477	2,058	17,715	
21 Seeds for sowing .....	—	—	1,908	—	3,013	15	4,936	
22 Flaxseed .....	163,254	—	55,589	—	25,854	—	244,697	
23 Soyabeans .....	24,475	—	8,610	—	33	—	33,118	
24 Logs and round timber .....	—	—	1,381	—	247	—	1,628	
25 Iron ore .....	—	—	—	—	—	—	—	—
26 Metallic ores and concentrates, n.e.s. ....	—	—	76	—	895	—	971	
27 Iron and steel scrap .....	—	—	—	—	59,705	82,913	142,618	
28 Non-ferrous metal scrap .....	—	—	369	45	3,687	3,596	7,697	
29 Slags, drosses and other by-products .....	18,502	—	402	—	1,239	—	20,143	
30 Coal, bituminous .....	846	—	—	—	—	—	846	
31 Natural asphalt (gilsonite) .....	—	—	105	—	2	—	107	
32 Clay and bentonite .....	—	—	—	—	578	—	578	
33 Salt .....	128,786	—	—	—	—	—	128,786	
34 Non-metallic minerals, crude, n.e.s. ....	—	—	140	32	301	18	491	
35 Waste and scrap materials, n.e.s. ....	3,150	—	401	107	2,363	328	6,349	
36 Crude materials, inedible, n.e.s. ....	3,450	—	196	353	359	—	4,358	
37 Totals .....	342,463	—	70,357	537	112,753	88,928	615,038	
Fabricated materials, inedible:								
38 Paper and paperboard .....	21	10,588	11,950	3,025	5,433	179	31,196	
39 Fish and animal oils .....	11,316	—	—	—	329	878	12,523	
40 Soyabean oil .....	8,300	—	—	—	6	—	8,306	
41 Oils, fats, waxes, n.e.s. ....	—	—	1,790	397	176	2	2,365	
42 Chemicals .....	12,604	—	21,027	6,798	7,877	287	48,593	
43 Rubber, synthetic and reclaimed .....	—	—	5,512	4,989	27,416	5,297	43,214	
44 Chemical products, n.e.s. ....	19,825	—	14,005	8,026	16,191	1,104	59,151	
45 Gasoline .....	9,296	—	—	—	—	—	9,296	
46 Fuel oil .....	14,075	—	—	—	—	—	14,075	
47 Lubricating oils and greases .....	1,330	—	—	—	46	11	1,387	
48 Coke .....	—	—	4,020	—	—	—	4,020	
49 Tar, pitch and creosote .....	10,164	—	—	—	—	—	10,164	
50 Petroleum and coal products, n.e.s. ....	18,097	—	539	43	139	13	18,831	
51 Iron and steel: ingot, billet, rod, etc. ....	380	—	1,275	1,516	6,978	121	10,270	
52 Steel: plate, sheet and strip .....	1,205	—	27,929	15,432	13,884	20,500	78,950	
53 Structural shapes and sheet piling .....	—	—	366	1,269	4	53	1,692	
54 Iron and steel: wire and wire rope .....	24	—	233	99	198	3,659	4,213	
55 Iron and steel: n.e.s. ....	21	—	71	—	25	12	129	
56 Non-ferrous metals and alloys .....	307	—	3,734	589	1,421	1,911	7,962	
57 Metal fabricated basic products, n.e.s. ....	1,481	—	2,132	1,299	1,367	528	6,807	
58 Cement .....	15,123	—	—	—	—	—	15,123	
59 Miscellaneous fabricated materials, n.e.s. ....	3,218	—	13,861	921	5,390	632	24,022	
60 Totals .....	126,787	10,588	108,444	44,403	86,880	35,187	412,289	
End products, inedible:								
61 Machinery, equipment and parts .....	1,336	—	986	1,330	1,854	437	5,963	
62 Motor vehicles .....	—	—	481	1,132	1,349	268	3,230	
63 Motor vehicle parts .....	5	—	291	2,500	2,015	281	5,092	
64 End products, inedible, n.e.s. ....	37	—	3,347	727	1,623	614	8,348	
65 Totals .....	1,378	—	5,105	5,689	6,841	1,620	20,633	
66 Miscellaneous freight, n.e.s. ....	226	—	1,828	1,092	1,350	301	4,797	
67 Domestic package freight .....	438,405	—	—	—	—	—	438,405	
68 In transit freight .....	..	..	..	..	..	..	..	..
69 Grand totals — Downbound .....	9,826,745	18,670	649,536	63,608	412,648	169,117	11,140,324	

<sup>1</sup> 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 Unloading<sup>1</sup>

Canada	United States	United Kingdom	Other British Commonwealth	Other Europe	Other countries	Total	Grand total	No.	United States to	
									tons	
—	—	—	8,097	2,492	33,955	568	45,112	49,732	1	
—	—	—	—	5,242	3,863	8,102	17,207	17,207	2	
—	—	5,130	15,335	177,751	99,747	—	297,963	300,794	3	
100,423	—	29,618	11,865	549,030	—	690,936	1,133,503	4		
1,684,013	—	534,983	—	1,091,134	1,064	3,311,194	3,325,152	5		
—	—	2,240	—	61,601	—	63,841	379,164	6		
6,106	—	—	—	77,912	—	84,018	151,613	7		
578,057	—	11,733	1,095	261,097	95,447	947,429	9,199,905	8		
—	—	19	223	1,275	1,012	2,529	8,458	9		
3,036	—	—	23,080	3,683	67,148	96,947	97,073	10		
—	—	5	8	—	13,308	13,321	72,950	11		
681	—	168	4,203	34,427	109,310	148,789	238,026	12		
—	—	3,196	1,342	2,169	10,469	17,176	17,650	13		
69,997	—	34,022	4,875	28,038	6,720	143,652	204,954	14		
—	—	137,376	—	4,903	2,744	145,023	145,023	15		
12,345	—	1,124	—	81,260	—	94,729	265,679	16		
—	—	11,421	738	182,881	1,667	196,707	325,643	17		
—	—	3,592	538	18,604	1,747	24,481	57,690	18		
2,454,658	—	782,724	71,036	2,613,583	419,053	6,341,054	15,990,216	19		
—	—	—	—	—	—	—	—	—		
—	—	6,370	98	58,566	7,714	72,748	90,463	20		
—	—	1,345	—	5,262	1,327	7,934	12,870	21		
511,501	—	35,648	—	150,971	—	150,971	395,668	22		
—	—	98	13	400,321	23,178	970,648	1,003,766	23		
17,752	—	—	—	12,934	32	13,077	14,705	24		
9,576	—	45	—	—	—	17,752	17,752	25		
—	—	—	—	31	4	9,656	10,627	26		
—	—	444	171	270,063	36,500	306,563	449,181	27		
—	—	559	12	5,673	4,531	10,819	18,516	28		
411,200	—	—	—	1,321	—	1,892	22,035	29		
—	—	4,133	—	2,312	—	411,217	412,063	30		
93,580	—	5,995	364	5,631	95	105,665	106,243	31		
100,284	—	—	—	—	—	109,284	238,070	33		
5	—	2,336	53	5,331	279	8,004	8,495	34		
—	—	1,467	110	7,423	1,110	10,110	16,459	35		
—	—	767	—	3,212	73	4,052	8,410	36		
1,152,898	—	59,207	821	929,068	74,843	2,216,837	2,831,875	37		
—	—	—	—	—	—	—	—	—		
—	—	919	625	810	536	2,890	34,086	38		
—	—	32,640	—	143,345	21,007	196,992	209,515	39		
—	—	387	569	4,393	1,901	7,250	15,556	40		
—	—	2,305	42	5,225	855	8,427	10,792	41		
27,002	—	1,829	4,331	19,027	14,410	66,599	115,192	42		
—	—	519	—	569	135	1,223	44,437	43		
—	—	11,489	4,057	43,739	8,483	67,768	126,919	44		
—	—	—	—	26	—	26	9,322	45		
—	64,687	—	—	2,976	—	67,663	81,738	46		
—	—	2,298	102	6,793	258	9,449	10,836	47		
242,577	—	518	—	7,847	16	250,958	254,978	48		
25,360	—	—	—	486	—	25,846	36,010	49		
—	7,645	1,952	44	2,731	203	12,575	31,406	50		
—	—	195	1,525	15,411	513	17,644	27,914	51		
—	—	4,709	25,845	3,946	14,464	48,964	127,914	52		
—	—	237	2,878	258	50	3,423	5,115	53		
—	—	123	704	841	858	2,526	6,739	54		
7,533	—	108	—	228	—	7,869	7,998	55		
—	—	2,669	789	6,536	831	10,825	18,787	56		
5	—	493	281	5,508	1,357	7,644	14,451	57		
—	—	—	—	—	—	—	15,123	58		
22	—	6,063	517	11,172	1,359	19,133	43,155	59		
302,499	72,332	69,451	42,309	281,867	67,236	835,694	1,247,983	60		
—	—	—	—	—	—	—	—	—		
1,369	—	12,400	21,452	31,420	11,434	78,075	84,038	61		
1,197	—	506	26,915	20,705	16,004	65,327	68,557	62		
—	—	2,091	4,994	14,633	4,007	25,725	30,817	63		
—	—	3,375	1,115	6,672	1,771	12,933	19,281	64		
2,566	—	18,372	54,476	73,430	33,216	182,060	202,693	65		
887	—	2,009	1,664	25,276	1,486	31,322	36,119	66		
—	—	—	—	—	—	—	438,405	67		
—	—	—	—	—	—	—	30,799	68		
3,914,508	72,332	931,763	170,306	3,923,224	595,834	9,606,967	20,778,090	69		

## WELLAND CANAL

TABLE 15. Location and Description

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

<sup>1</sup> Breastwall to fender.

TABLE 16. Historical Summary, 1955-64

Registry of vessel	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Vessel transits										
Upbound:										
Canada	3,260	3,366	3,195	3,007	2,604	2,446	2,356	2,114	2,192	2,156
United States	1,094	985	991	852	789	664	508	639	574	443
United Kingdom <sup>1</sup>	31	41	44	57	226	261	440	477	454	635
Other foreign	312	324	372	489	727	765	800	805	735	893
Totals	4,697	4,716	4,602	4,405	4,346	4,136	4,104	4,035	3,955	4,127
Downbound:										
Canada	3,245	3,298	3,191	2,978	2,554	2,362	2,296	2,048	2,180	2,170
United States	1,053	985	953	815	778	631	543	651	539	426
United Kingdom <sup>1</sup>	33	40	42	53	242	269	443	473	440	659
Other foreign	306	321	366	485	729	771	819	829	756	895
Totals	4,637	4,644	4,352	4,331	4,303	4,033	4,101	4,001	3,915	4,150
Grand totals	9,334	9,360	9,154	8,736	8,649	8,169	8,205	8,036	7,870	8,277
Registered net tons										
Upbound:										
Canada	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	10,889,281
United States	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	1,517,840
United Kingdom <sup>1</sup>	21,080	28,840	29,235	36,774	724,092	916,379	1,763,584	1,961,284	2,082,066	3,021,952
Other foreign	259,013	275,406	314,429	411,234	1,574,929	2,014,373	2,287,643	2,540,868	2,311,179	3,074,160
Totals	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	18,483,233
Downbound:										
Canada	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	10,947,524
United States	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	1,501,444
United Kingdom <sup>1</sup>	22,968	28,067	28,166	34,047	755,799	926,891	1,702,171	1,920,027	1,994,464	3,104,124
Other foreign	251,551	270,682	307,547	403,892	1,582,943	2,051,355	2,375,972	2,614,527	2,431,798	3,104,733
Totals	9,489,380	10,047,652	9,728,602	9,274,682	11,014,001	11,910,249	13,718,435	14,508,243	16,277,795	18,657,825
Grand totals	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	37,141,058
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	11,959,424
United States	687,670	566,891	465,645	433,776	894,109	855,226	539,217	1,079,748	1,640,628	2,533,381
United Kingdom <sup>1</sup>	25,573	32,756	16,832	34,970	562,631	791,772	1,126,378	1,437,571	1,628,626	2,266,853
Other foreign	280,773	286,214	254,642	357,333	1,066,194	976,432	880,660	1,323,185	1,617,205	1,795,342
Totals	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	18,555,000
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	20,415,231
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	1,974,622
United Kingdom <sup>1</sup>	16,503	32,028	35,615	43,477	1,119,736	1,610,708	2,579,610	3,099,075	3,338,079	5,434,501
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	5,037,028
Totals	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	32,861,382
Grand totals	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	51,416,382
Season of navigation										
First vessel passage ..	March 30	March 31	March 30	April 1	April 6	April 1				
Last vessel passage ..	Dec. 17	Dec. 20	Dec. 18	Dec. 16	Dec. 15	Dec. 15	Dec. 15	Dec. 17	Dec. 19	Dec. 15

<sup>1</sup> Includes other British Commonwealth.

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

	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
<b>Upbound:</b>							
Cargo .....	1,341	1,878	3,219	16,773,393	24,508,031	16,929,845	49
Passenger-cargo .....	12	36	48	143,859	254,107	74,038	700
Cargo-passenger .....	18	214	232	482,563	870,065	404,812	195
Scow, barge, etc. ....	3	—	3	1,837	1,837	—	—
Tug and scow .....	80	105	185	208,095	215,211	252,286	—
Tanker .....	123	212	335	819,855	1,322,815	894,019	—
Tug or dredge .....	64	—	64	12,777	14,476	—	—
Naval or Government .....	35	—	35	40,417	47,698	—	—
All other types .....	6	—	6	437	640	—	—
<b>Totals .....</b>	<b>1,682</b>	<b>2,445</b>	<b>4,127</b>	<b>18,483,233</b>	<b>27,234,880</b>	<b>18,555,000</b>	<b>944</b>
<b>Downbound:</b>							
Cargo .....	231	3,024	3,255	16,933,666	24,709,242	30,445,606	38
Passenger-cargo .....	7	22	29	109,944	183,262	120,838	686
Cargo-passenger .....	1	234	235	506,882	923,096	837,651	209
Scow, barge, etc. ....	4	—	4	16,404	16,559	—	—
Tug and scow .....	38	130	168	202,201	223,499	317,874	—
Tanker .....	126	217	343	838,906	1,356,374	1,139,413	—
Tug or dredge .....	64	—	64	10,155	13,283	—	—
Naval or Government .....	42	—	42	37,437	56,576	—	—
All other types .....	10	—	10	2,330	3,324	—	—
<b>Totals .....</b>	<b>523</b>	<b>3,627</b>	<b>4,150</b>	<b>18,637,825</b>	<b>27,485,214</b>	<b>32,861,382</b>	<b>933</b>
<b>Grand totals .....</b>	<b>2,205</b>	<b>6,072</b>	<b>8,277</b>	<b>37,141,058</b>	<b>54,720,094</b>	<b>51,416,382</b>	<b>1,877</b>

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				
<b>Upbound:</b>							
Canada .....	997	1,159	2,156	10,869,281	15,273,190	11,959,424	—
United States .....	170	273	443	1,517,840	2,140,968	2,533,381	652
United Kingdom .....	85	184	269	1,140,517	1,868,885	766,091	23
Other British Commonwealth .....	199	167	366	1,881,435	2,710,793	1,500,762	—
Belgium .....	3	2	5	66,220	73,580	1,219	3
Denmark .....	2	15	17	28,674	53,918	19,306	—
Finland .....	—	12	12	4,941	9,560	2,507	3
France .....	17	15	32	137,427	254,439	24,615	—
Germany .....	32	203	235	641,912	1,079,283	499,990	151
Greece .....	15	21	36	180,803	288,248	130,720	4
Italy .....	6	13	19	71,862	127,775	31,149	—
Netherlands .....	10	51	61	157,348	280,825	102,348	—
Norway .....	77	173	250	930,599	1,627,274	522,800	61
Sweden .....	22	72	94	246,439	453,506	103,313	10
Other Europe .....	5	20	25	91,051	156,003	52,944	37
Panama .....	9	4	13	54,458	91,109	33,119	—
Middle East .....	4	11	15	41,593	77,365	9,908	—
Other Asia .....	3	26	29	152,383	256,048	117,831	—
Liberia .....	24	22	46	245,321	380,712	135,935	—
Other countries .....	2	2	4	23,329	31,399	7,838	—
<b>Totals .....</b>	<b>1,682</b>	<b>2,445</b>	<b>4,127</b>	<b>18,483,233</b>	<b>27,234,880</b>	<b>18,555,000</b>	<b>944</b>
<b>Downbound:</b>							
Canada .....	325	1,845	2,170	10,947,524	15,382,974	20,415,231	—
United States .....	109	317	426	1,501,444	2,117,562	1,974,622	658
United Kingdom .....	26	264	290	1,207,795	1,962,966	1,983,194	22
Other British Commonwealth .....	38	331	369	1,896,329	2,719,758	3,451,307	—
Belgium .....	—	5	5	66,220	73,580	76,511	—
Denmark .....	6	10	16	26,837	50,284	57,575	—
Finland .....	1	10	11	4,663	8,902	7,844	—
France .....	—	32	32	138,150	256,226	280,907	—
Germany .....	4	228	232	643,677	1,076,589	1,025,914	103
Greece .....	4	31	35	179,137	283,088	274,014	—
Italy .....	—	19	19	73,608	130,587	150,074	—
Netherlands .....	1	60	61	156,033	270,358	235,596	28
Norway .....	3	256	259	953,473	1,678,859	1,654,024	85
Sweden .....	—	91	91	251,725	462,255	370,874	6
Other Europe .....	—	25	25	82,124	144,460	149,461	31
Panama .....	3	10	13	54,458	91,110	95,051	—
Middle East .....	—	18	18	52,508	96,236	70,581	—
Other Asia .....	—	29	29	153,032	258,012	132,044	—
Liberia .....	3	45	48	259,722	405,296	442,627	—
Other countries .....	—	1	1	9,366	14,112	13,951	—
<b>Totals .....</b>	<b>523</b>	<b>3,627</b>	<b>4,150</b>	<b>18,637,825</b>	<b>27,485,214</b>	<b>32,861,382</b>	<b>933</b>
<b>Grand totals .....</b>	<b>2,205</b>	<b>6,072</b>	<b>8,277</b>	<b>37,141,058</b>	<b>54,720,094</b>	<b>51,416,382</b>	<b>1,877</b>

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				
<b>Upbound:</b>							
Under 80 feet.....	39	1	40	3,675	4,181	2,479	—
80 to 119 feet.....	64	1	65	13,685	16,833	2,215	—
120 " 159 "	28	30	58	22,181	36,989	20,790	1
160 " 199 "	9	26	35	13,912	24,167	29,330	—
200 " 239 "	47	121	168	199,570	214,577	246,248	—
240 " 279 "	207	301	508	703,818	1,078,494	806,015	80
280 " 319 "	40	169	209	301,575	471,161	400,292	11
320 " 359 "	59	198	257	550,230	854,312	598,577	626
360 " 399 "	32	189	221	508,626	857,055	470,504	70
400 " 439 "	177	203	380	1,123,830	1,797,535	816,584	85
440 " 479 "	200	238	438	1,606,213	2,632,081	708,988	42
480 " 519 "	163	252	415	2,083,974	3,370,894	1,410,622	40
520 " 559 "	184	179	363	2,054,344	2,981,645	1,742,247	6
560 " 599 "	81	46	127	770,404	1,126,592	558,339	—
600 " 639 "	116	160	276	2,075,297	2,966,948	2,695,925	3
640 " 679 "	64	101	165	1,462,348	2,018,434	2,096,327	—
680 " 759 "	172	230	402	4,989,551	6,782,982	5,949,518	—
<b>Totals</b> .....	<b>1,682</b>	<b>2,445</b>	<b>4,127</b>	<b>18,483,233</b>	<b>27,234,880</b>	<b>18,555,000</b>	<b>944</b>
<b>Downbound:</b>							
Under 80 feet.....	39	1	40	3,726	3,970	2,568	—
80 to 119 feet.....	65	2	67	23,703	48,057	990	—
120 " 159 "	48	11	59	16,106	24,963	3,508	—
160 " 199 "	37	2	39	17,760	27,559	1,316	—
200 " 239 "	14	134	148	173,166	186,501	313,377	—
240 " 279 "	80	437	517	711,921	1,090,912	1,262,712	60
280 " 319 "	18	198	216	309,023	483,603	559,254	3
320 " 359 "	40	212	252	545,044	842,922	813,490	616
360 " 399 "	19	199	218	498,089	837,594	657,744	64
400 " 439 "	37	347	384	1,148,205	1,828,817	2,007,046	78
440 " 479 "	11	429	440	1,618,145	2,654,572	2,511,378	47
480 " 519 "	8	419	427	2,156,348	3,481,026	3,633,025	64
520 " 559 "	22	346	368	2,069,233	2,989,964	3,666,054	—
560 " 599 "	7	120	127	766,959	1,121,111	1,474,751	1
600 " 639 "	37	242	279	2,100,594	3,003,724	3,779,163	—
640 " 679 "	26	133	159	1,421,897	1,955,920	2,471,393	—
680 " 759 "	15	395	410	5,077,906	6,903,999	9,703,613	—
<b>Totals</b> .....	<b>523</b>	<b>3,627</b>	<b>4,150</b>	<b>18,657,825</b>	<b>27,485,214</b>	<b>32,861,382</b>	<b>933</b>
<b>Grand totals</b> .....	<b>2,205</b>	<b>6,072</b>	<b>8,277</b>	<b>37,141,058</b>	<b>54,720,094</b>	<b>51,416,382</b>	<b>1,877</b>

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
<b>Originating at ports on Lake Ontario:</b>								
Registry:								
Canada .....	492	1,505,024	2,185,737	528	3,380,322	4,680,274	1,020	4,885,346
United States .....	7	17,117	23,119	127	288,336	374,271	134	305,453
United Kingdom .....	13	44,820	65,515	31	190,237	265,105	44	235,057
Other British Commonwealth .....	15	72,134	109,446	260	1,342,346	1,923,625	275	1,414,480
Finland .....	—	—	—	1	1,078	2,285	1	1,078
France .....	—	—	—	2	8,705	17,033	2	6,705
Germany .....	1	2,041	3,163	4	16,281	25,911	5	18,322
Greece .....	—	—	—	1	5,879	9,956	1	5,879
Netherlands .....	—	—	—	1	1,246	2,322	1	1,246
Norway .....	—	—	—	2	6,514	11,560	2	6,514
Sweden .....	—	—	—	1	3,635	6,564	1	3,635
Panama .....	—	—	—	1	5,144	8,684	1	5,144
<b>Totals</b> .....	<b>528</b>	<b>1,641,136</b>	<b>2,386,980</b>	<b>959</b>	<b>5,249,723</b>	<b>7,327,590</b>	<b>1,487</b>	<b>6,890,859</b>
<b>Originating at ports on the St. Lawrence river:</b>								
Registry:								
Canada .....	371	1,554,551	2,251,215	742	4,378,821	6,078,887	1,113	5,933,372
United States .....	—	—	—	122	824,149	1,196,267	122	824,149
United Kingdom .....	14	72,012	116,351	41	215,940	319,866	55	287,952
Other British Commonwealth .....	17	90,956	129,091	61	325,292	458,743	78	416,248
Belgium .....	—	—	—	2	26,486	29,432	2	26,488
Denmark .....	—	—	—	1	3,374	6,115	1	3,374
Germany .....	—	—	—	4	11,952	19,473	4	11,952
Greece .....	—	—	—	2	12,333	18,375	2	12,333
Italy .....	1	3,205	5,851	—	—	—	1	3,205
Netherlands .....	1	7,061	12,913	—	—	—	1	7,061
Norway .....	1	4,915	9,999	13	70,973	119,877	14	75,888
Other Europe .....	—	—	—	1	4,419	7,969	1	4,419
Liberia .....	—	—	—	1	4,347	7,171	1	4,347
Other countries .....	—	—	—	1	13,244	14,716	1	13,244
<b>Totals</b> .....	<b>405</b>	<b>1,732,700</b>	<b>2,525,420</b>	<b>991</b>	<b>5,891,332</b>	<b>8,276,891</b>	<b>1,396</b>	<b>7,624,032</b>
								<b>10,802,311</b>

TABLE 20 A. Number and Tonnage of Vessels Upbound on the Welland Section of the Seaway by Origin and Destination — 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
<b>Originating at ports outside the Gulf of St. Lawrence:</b>									
Registry:									
Canada	11	15,357	22,409	12	35,206	54,668	23	49,563	77,077
United States	—	—	—	187	388,238	547,311	187	388,238	547,311
United Kingdom	15	69,063	117,983	155	548,445	984,065	170	617,508	1,102,048
Other British Commonwealth	2	5,892	9,471	11	44,815	80,417	13	50,707	89,888
Belgium	2	26,488	29,432	1	13,244	14,716	3	39,732	44,148
Denmark	6	1,511	3,551	10	23,789	44,252	16	25,300	47,803
Finland	—	—	—	11	3,863	7,275	11	3,863	7,275
France	—	—	—	30	128,722	237,406	30	128,722	237,406
Germany	8	24,386	40,833	218	587,252	989,903	226	611,638	1,030,736
Greece	5	35,795	51,271	28	126,596	208,646	33	162,391	259,917
Italy	—	—	—	18	68,657	121,924	18	68,657	121,924
Netherlands	1	5,067	9,105	58	143,974	256,485	59	149,041	265,590
Norway	21	85,710	142,357	213	762,487	1,343,481	234	849,197	1,485,838
Sweden	6	17,835	30,513	87	224,969	416,429	93	242,804	446,942
Other Europe	1	1,140	2,478	23	85,492	145,556	24	86,632	148,034
Panama	—	—	—	12	49,314	82,425	12	49,314	82,425
Middle East	1	3,715	6,240	14	37,878	71,125	15	41,593	77,365
Other Asia	1	4,427	7,211	26	147,956	248,837	29	152,383	256,048
Liberia	3	18,513	30,303	42	222,461	343,238	45	240,974	373,541
Other countries	2	5,892	10,522	1	4,193	6,161	3	10,085	16,683
<b>Totals</b>	<b>85</b>	<b>320,791</b>	<b>513,679</b>	<b>1,159</b>	<b>3,647,551</b>	<b>6,204,320</b>	<b>1,244</b>	<b>3,968,342</b>	<b>6,717,999</b>
<b>Grand Totals — Upbound</b>	<b>1,018</b>	<b>3,694,637</b>	<b>5,426,079</b>	<b>3,109</b>	<b>14,788,606</b>	<b>21,808,801</b>	<b>4,127</b>	<b>18,483,233</b>	<b>27,234,880</b>

TABLE 20 B. Number and Tonnage of Vessels Downbound on the Welland 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
<b>Destined to ports on Lake Ontario:</b>									
Registry:									
Canada	485	1,327,652	1,976,764	571	3,828,479	5,265,875	1,056	5,156,131	7,242,639
United States	—	—	—	141	330,024	427,886	141	330,024	427,886
United Kingdom	9	29,628	38,320	38	208,846	286,651	47	238,474	324,971
Other British Commonwealth	11	48,827	73,321	265	1,369,513	1,958,217	276	1,418,340	2,031,538
Denmark	—	—	—	1	2,612	4,687	1	2,612	4,687
Finland	—	—	—	1	1,078	2,285	1	1,078	2,285
Germany	1	2,041	3,163	1	3,226	5,840	2	5,267	9,003
Greece	—	—	—	1	7,134	9,894	1	7,134	9,894
Panama	—	—	—	1	4,394	7,172	1	4,394	7,172
Other Asia	—	—	—	1	5,294	7,645	1	5,294	7,645
<b>Totals</b>	<b>506</b>	<b>1,408,148</b>	<b>2,091,568</b>	<b>1,021</b>	<b>5,760,600</b>	<b>7,976,152</b>	<b>1,527</b>	<b>7,168,748</b>	<b>10,067,720</b>
<b>Destined to ports on the St. Lawrence River:</b>									
Registry:									
Canada	683	4,244,069	5,938,397	384	1,407,936	1,977,325	1,067	5,652,005	7,915,722
United States	—	—	—	125	824,392	1,192,602	125	824,392	1,192,602
United Kingdom	11	48,211	76,271	33	173,048	235,844	44	221,259	312,115
Other British Commonwealth	33	165,751	247,981	50	278,990	379,370	83	444,741	627,351
Belgium	—	—	—	1	13,244	14,716	1	13,244	14,716
Germany	—	—	—	1	5,810	8,532	1	5,810	8,532
Italy	—	—	—	1	3,205	5,851	1	3,205	5,851
Norway	—	—	—	1	6,450	11,400	1	6,450	11,400
Panama	—	—	—	2	7,517	12,370	2	7,517	12,370
<b>Totals</b>	<b>727</b>	<b>4,458,031</b>	<b>6,262,649</b>	<b>598</b>	<b>2,720,592</b>	<b>3,838,010</b>	<b>1,325</b>	<b>7,178,623</b>	<b>10,100,639</b>

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

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 outside the Gulf of St. Lawrence:									
Registry:									
Canada .....	33	96,101	155,792	14	43,287	68,821	47	139,388	224,613
United States .....	—	—	—	160	347,028	497,074	160	347,028	497,074
United Kingdom .....	32	102,818	187,199	167	645,244	1,138,681	199	748,082	1,325,880
Other British Commonwealth .....	—	—	—	10	33,248	60,869	10	33,248	60,869
Belgium .....	—	—	—	4	52,976	58,864	4	52,976	58,864
Denmark .....	8	5,619	11,085	7	18,606	34,532	15	24,225	45,597
Finland .....	—	—	—	10	3,585	6,617	10	3,585	6,617
France .....	—	—	—	32	138,150	256,226	32	138,150	256,226
Germany .....	14	55,364	88,734	215	577,236	972,320	229	632,600	1,061,054
Greece .....	6	40,848	60,546	28	131,155	212,648	34	172,003	273,194
Italy .....	—	—	—	18	70,403	124,736	18	70,403	124,736
Netherlands .....	1	7,061	12,913	60	148,972	257,445	61	156,033	270,358
Norway .....	27	96,600	174,697	231	850,423	1,492,762	258	947,023	1,667,459
Sweden .....	5	12,403	21,262	86	239,322	440,993	91	251,725	462,255
Other Europe .....	—	—	—	25	82,124	144,460	25	82,124	144,460
Panama .....	—	—	—	10	42,547	71,568	10	42,547	71,568
Middle East .....	1	3,715	6,433	17	48,793	89,803	18	52,508	96,236
Other Asia .....	1	4,427	7,211	27	143,311	243,156	28	147,738	250,367
Liberia .....	3	18,455	29,940	45	241,267	375,356	48	259,722	405,296
Other countries .....	—	—	—	1	9,366	14,112	1	9,366	14,112
Totals .....	131	443,411	755,792	1,167	3,867,043	6,561,043	1,298	4,310,454	7,316,835
Grand totals — Downbound .....	1,364	6,309,590	9,110,009	2,786	12,348,235	18,375,205	4,150	18,657,825	27,485,214

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 .....	1,479	8,987,004	12,611,099	645	1,871,947	2,650,123	32	10,330	11,968	2,156	10,869,281	15,273,170
United States .....	188	1,142,510	1,675,787	99	175,728	260,101	156	199,602	205,080	443	1,517,840	2,140,968
United Kingdom .....	104	517,278	760,932	165	623,239	1,107,953	—	—	—	269	1,140,517	1,868,885
Other British Commonwealth .....	341	1,769,700	2,506,622	25	111,735	204,171	—	—	—	366	1,881,435	2,710,793
Belgium .....	—	—	—	5	66,220	73,580	—	—	—	5	66,220	73,580
Denmark .....	—	—	—	17	28,674	53,918	—	—	—	17	28,674	53,918
Finland .....	—	—	—	12	4,941	9,560	—	—	—	12	4,941	9,560
France .....	—	—	—	32	137,427	254,439	—	—	—	32	137,427	254,439
Germany .....	2	10,686	17,631	233	631,226	1,061,652	—	—	—	235	641,912	1,079,283
Greece .....	18	104,132	156,697	18	76,471	131,551	—	—	—	36	180,603	288,248
Italy .....	4	15,078	26,300	15	56,784	101,475	—	—	—	19	71,862	127,775
Netherlands .....	5	22,493	38,984	56	134,855	241,841	—	—	—	61	157,348	280,825
Norway .....	5	24,327	44,063	245	906,272	1,583,211	—	—	—	250	930,599	1,627,274
Sweden .....	1	3,635	6,564	93	242,804	446,942	—	—	—	94	246,439	453,506
Other Europe .....	—	—	—	25	91,051	156,003	—	—	—	25	91,051	156,003
Panama .....	7	27,103	45,065	6	27,355	46,044	—	—	—	13	54,458	91,109
Middle East .....	—	—	—	15	41,533	77,365	—	—	—	15	41,593	77,365
Other Asia .....	2	9,314	14,367	27	143,069	241,681	—	—	—	29	152,383	256,048
Liberia .....	22	120,307	181,464	24	125,014	199,248	—	—	—	46	245,321	360,712
Other countries .....	—	—	—	4	23,329	31,399	—	—	—	4	23,329	31,399
Totals .....	2,178	12,753,567	18,085,575	1,761	5,519,734	8,932,257	188	209,932	217,048	4,127	18,483,233	27,234,880
Downbound:												
Canada .....	1,492	9,072,998	12,720,508	652	1,881,096	2,637,932	26	13,430	24,534	2,170	10,947,524	15,382,974
United States .....	189	1,147,683	1,676,051	98	174,815	256,903	139	178,946	164,608	426	1,501,444	2,117,562
United Kingdom .....	108	532,221	777,377	175	649,345	1,154,673	7	26,229	30,916	290	1,207,795	1,962,966
Other British Commonwealth .....	346	1,797,100	2,539,532	23	99,229	180,226	—	—	—	369	1,896,329	2,719,758
Belgium .....	—	—	—	5	66,220	73,580	—	—	—	5	66,220	73,580
Denmark .....	—	—	—	16	26,837	50,284	—	—	—	16	26,837	50,284
Finland .....	—	—	—	11	4,663	8,902	—	—	—	11	4,663	8,902
France .....	—	—	—	32	138,150	256,226	—	—	—	32	138,150	256,226
Germany .....	1	6,890	11,969	231	636,787	1,066,620	—	—	—	232	643,677	1,078,589
Greece .....	17	94,753	143,800	18	84,384	139,288	—	—	—	35	179,137	283,088
Italy .....	4	15,078	26,300	15	58,530	104,287	—	—	—	19	73,808	130,587
Netherlands .....	5	22,655	39,949	56	133,378	230,409	—	—	—	81	156,033	270,358
Norway .....	7	37,064	64,262	252	918,409	1,614,597	—	—	—	259	953,473	1,678,859
Sweden .....	—	—	—	91	251,725	462,255	—	—	—	91	251,725	462,255
Other Europe .....	—	—	—	25	82,124	144,460	—	—	—	25	82,124	144,460
Panama .....	6	22,709	37,893	7	31,749	53,217	—	—	—	13	54,458	91,110
Middle East .....	1	4,347	7,171	17	48,161	89,065	—	—	—	18	52,508	96,236
Other Asia .....	3	14,608	21,964	26	138,424	236,048	—	—	—	29	153,032	258,012
Liberia .....	23	123,669	186,116	25	136,053	219,180	—	—	—	48	259,722	405,296
Other countries .....	—	—	—	1	9,366	14,112	—	—	—	1	9,366	14,112
Totals .....	2,202	12,891,775	18,252,892	1,776	5,547,445	8,992,264	172	218,063	240,058	4,150	18,657,825	27,483,214
Grand totals .....	4,380	25,645,342	36,338,467	3,537	11,067,179	17,924,521	360	428,537	457,106	8,277	37,141,058	54,720,094

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
<b>Cargo Vessel:</b>									
Under 80 feet .....	1	30	40	1	109	109	2	139	149
120 to 159 feet .....	39	15,246	28,979	39	7,950	16,063	78	23,196	45,042
160 " 199 "	23	5,859	13,810	22	5,225	11,737	45	11,084	25,547
200 " 239 "	18	11,604	19,385	15	7,121	12,135	33	18,725	31,520
240 " 279 "	358	513,153	780,626	367	524,261	795,278	725	1,037,414	1,575,904
280 " 319 "	144	213,164	344,440	150	219,835	356,068	294	432,999	700,508
320 " 359 "	236	504,006	784,791	230	495,612	771,411	466	999,618	1,556,202
360 " 399 "	204	463,516	782,865	199	447,362	754,484	403	910,878	1,537,329
400 " 439 "	360	1,056,676	1,697,978	361	1,063,175	1,710,087	721	2,119,851	3,408,065
440 " 479 "	434	1,588,324	2,607,952	432	1,586,147	2,605,382	866	3,174,471	5,213,334
480 " 519 "	384	1,923,214	3,093,104	395	1,993,472	3,195,120	779	3,916,686	6,288,224
520 " 559 "	334	1,855,350	2,664,679	340	1,882,215	2,685,815	674	3,737,565	5,350,494
560 " 599 "	123	735,337	1,075,790	123	731,892	1,070,309	246	1,467,229	2,146,099
600 " 639 "	274	2,062,437	2,936,348	277	2,087,734	2,973,124	551	4,150,171	5,909,472
640 " 679 "	165	1,462,348	2,018,434	159	1,421,897	1,955,920	324	2,884,245	3,974,354
680 " 759 "	402	4,989,551	6,782,982	409	5,076,485	6,902,578	811	10,066,036	13,685,580
<b>Totals .....</b>	<b>3,499</b>	<b>17,399,815</b>	<b>25,632,203</b>	<b>3,519</b>	<b>17,550,492</b>	<b>25,815,600</b>	<b>7,018</b>	<b>34,950,307</b>	<b>51,447,803</b>
<b>Barge or scow:</b>									
60 to 119 feet .....	1	769	769	—	—	—	1	769	769
120 " 159 "	1	185	185	—	—	—	1	185	185
160 " 199 "	1	883	883	—	—	—	1	883	883
400 " 439 "	—	—	—	4	16,404	16,559	4	16,404	16,559
<b>Totals .....</b>	<b>3</b>	<b>1,837</b>	<b>1,837</b>	<b>4</b>	<b>16,404</b>	<b>16,559</b>	<b>7</b>	<b>18,241</b>	<b>18,396</b>
<b>Tug and scow:</b>									
Under 80 feet .....	3	1,231	1,416	4	1,488	1,496	7	2,719	2,914
80 to 119 feet .....	24	6,345	7,504	24	13,118	24,310	48	19,463	31,814
120 " 159 "	6	2,969	3,066	3	2,482	2,482	9	5,451	5,548
160 " 199 "	2	1,431	1,528	3	3,119	3,297	5	4,550	4,825
200 " 239 "	143	185,259	190,445	125	163,128	168,470	268	348,387	358,915
240 " 279 "	4	6,658	7,006	4	6,243	6,243	8	12,901	13,249
280 " 319 "	1	1,377	1,421	1	1,377	1,421	2	2,754	2,842
360 " 399 "	—	—	—	1	3,120	4,734	1	3,120	4,734
400 " 439 "	2	2,825	2,825	3	8,126	11,044	5	10,951	13,869
<b>Totals .....</b>	<b>185</b>	<b>208,095</b>	<b>215,211</b>	<b>168</b>	<b>202,201</b>	<b>223,499</b>	<b>353</b>	<b>410,296</b>	<b>438,710</b>
<b>Tanker:</b>									
160 to 199 feet .....	3	1,947	2,652	3	1,947	2,652	6	3,894	5,304
200 " 239 "	6	1,511	3,551	7	2,462	4,700	13	3,973	8,251
240 " 279 "	144	180,345	287,200	144	179,149	285,729	288	359,494	572,929
280 " 319 "	60	79,022	117,288	61	79,799	118,102	121	158,621	235,390
320 " 359 "	19	42,621	61,515	21	48,024	68,891	40	90,645	130,406
360 " 399 "	17	45,110	74,190	18	47,607	76,396	35	92,717	152,586
400 " 439 "	18	64,329	96,732	17	61,921	92,548	35	126,250	189,280
440 " 479 "	3	10,089	16,329	6	20,076	33,899	9	30,165	50,228
460 " 519 "	31	160,760	277,790	32	162,876	285,906	63	323,636	563,896
520 " 559 "	28	186,194	304,166	28	187,016	304,149	56	373,212	608,315
560 " 599 "	4	35,067	50,802	4	35,067	50,802	8	70,134	101,604
600 " 639 "	2	12,860	30,600	2	12,860	30,600	4	25,720	61,200
<b>Totals .....</b>	<b>335</b>	<b>819,855</b>	<b>1,322,815</b>	<b>343</b>	<b>838,806</b>	<b>1,356,374</b>	<b>678</b>	<b>1,858,661</b>	<b>2,679,189</b>
<b>Tug or dredge:</b>									
Under 80 feet .....	28	1,955	2,224	25	1,585	1,771	53	3,540	3,995
80 to 119 feet .....	29	5,063	6,128	32	5,559	6,886	61	10,622	13,016
120 " 159 "	4	901	1,268	5	1,474	1,525	9	2,375	2,791
200 " 239 "	1	1,196	1,196	1	455	1,196	2	1,651	2,392
240 " 279 "	2	3,662	3,662	1	1,062	1,902	3	4,744	5,584
<b>Totals .....</b>	<b>64</b>	<b>12,777</b>	<b>14,476</b>	<b>64</b>	<b>10,155</b>	<b>13,282</b>	<b>128</b>	<b>22,832</b>	<b>27,758</b>
<b>Other vessels:</b>									
Under 80 feet .....	6	459	501	10	544	592	18	1,003	1,093
80 to 119 feet .....	11	1,508	2,432	11	5,026	16,859	22	6,534	19,291
120 " 159 "	6	2,880	3,493	12	4,200	4,693	20	7,080	8,386
160 " 199 "	6	3,792	5,294	11	7,469	9,873	17	11,261	15,167
240 " 279 "	—	—	—	1	1,166	1,760	1	1,186	1,760
280 " 319 "	4	8,012	8,012	4	8,012	8,012	6	16,024	16,024
320 " 359 "	2	3,603	8,006	1	1,408	2,620	3	5,011	10,626
440 " 479 "	1	7,800	7,800	2	11,922	15,291	3	19,722	23,091
520 " 559 "	1	12,800	12,800	—	—	—	1	12,600	12,800
<b>Totals .....</b>	<b>41</b>	<b>40,854</b>	<b>48,338</b>	<b>52</b>	<b>39,767</b>	<b>59,900</b>	<b>93</b>	<b>80,621</b>	<b>108,238</b>
<b>Grand totals .....</b>	<b>4,127</b>	<b>18,483,233</b>	<b>27,234,880</b>	<b>4,150</b>	<b>18,657,825</b>	<b>27,485,214</b>	<b>8,277</b>	<b>37,141,058</b>	<b>54,720,094</b>

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
<b>Cargo vessel:</b>									
5 feet and under.....	1	5,168	6,943	1	109	109	2	5,277	7,052
6 to 7 feet.....	—	—	—	1	237	450	1	237	450
8 " 9 "	4	3,371	4,768	3	580	1,039	7	3,951	5,807
10 " 11 "	14	5,979	10,418	13	3,377	8,189	27	9,356	18,607
12 " 13 "	63	71,485	122,577	36	27,317	46,150	99	98,802	168,727
14 " 15 "	99	163,788	260,190	71	105,623	176,098	170	269,411	436,288
16 " 17 "	178	316,004	474,722	214	343,608	514,409	392	659,612	989,131
18 " 19 "	434	846,202	1,286,694	427	820,124	1,245,821	861	1,666,326	2,532,515
20 " 21 "	773	2,960,815	4,231,607	806	3,022,030	4,304,827	1,579	5,982,845	8,536,434
22 " 23 "	403	1,764,684	2,656,533	396	1,768,605	2,638,000	799	3,533,489	5,294,533
24 " 25 "	760	4,700,206	7,013,863	776	4,751,196	7,142,266	1,536	9,451,402	14,156,129
28 " 27 "	515	5,056,710	7,090,266	523	5,179,549	7,239,332	1,038	10,236,259	14,329,598
28 " 29 "	126	670,042	1,125,594	112	807,120	1,021,331	238	1,277,162	2,146,925
30 feet and over.....	129	835,361	1,348,028	140	920,817	1,477,579	269	1,756,178	2,825,607
<b>Totals</b> .....	<b>3,499</b>	<b>17,399,815</b>	<b>25,632,203</b>	<b>3,510</b>	<b>17,550,492</b>	<b>25,815,600</b>	<b>7,018</b>	<b>34,850,307</b>	<b>51,447,803</b>
<b>Barge or scow:</b>									
5 feet and under.....	2	1,068	1,068	—	—	—	2	1,068	1,068
10 to 11 feet.....	1	769	769	4	16,404	16,559	5	17,173	17,328
<b>Totals</b> .....	<b>3</b>	<b>1,837</b>	<b>1,837</b>	<b>4</b>	<b>16,404</b>	<b>16,559</b>	<b>7</b>	<b>18,241</b>	<b>18,396</b>
<b>Tug and scow:</b>									
5 feet and under.....	5	1,142	1,424	4	2,178	2,321	9	3,320	3,745
8 to 7 feet.....	1	57	64	1	280	280	2	337	344
8 " 9 "	24	8,347	9,118	24	13,933	24,991	48	22,280	34,109
10 " 11 "	114	144,147	147,413	106	140,051	147,965	220	284,198	295,378
12 " 13 "	34	45,425	47,725	27	37,371	39,509	61	82,796	87,234
14 " 15 "	6	7,146	7,288	5	7,219	7,219	11	14,365	14,507
16 " 17 "	1	1,831	2,179	1	1,169	1,214	2	3,000	3,393
<b>Totals</b> .....	<b>185</b>	<b>208,095</b>	<b>215,211</b>	<b>168</b>	<b>202,201</b>	<b>223,499</b>	<b>353</b>	<b>410,296</b>	<b>438,710</b>
<b>Tanker:</b>									
8 to 9 feet.....	1	1,111	1,576	—	—	—	1	1,111	1,576
10 " 11 "	6	3,432	6,706	6	1,886	3,649	12	5,318	10,355
12 " 13 "	10	9,795	14,241	10	9,795	14,241	20	19,590	28,482
14 " 15 "	86	105,401	150,909	85	104,910	149,957	171	210,311	300,866
16 " 17 "	73	110,986	185,711	74	112,526	188,747	147	223,512	374,458
18 " 19 "	29	34,246	60,734	32	37,326	66,185	61	71,572	126,919
20 " 21 "	29	55,782	84,300	30	55,576	82,922	59	111,358	167,222
22 " 23 "	16	54,278	82,526	17	57,744	86,938	33	112,022	169,464
24 " 25 "	13	59,262	100,187	17	79,604	135,228	30	138,866	235,415
26 " 27 "	34	171,620	269,200	38	184,312	293,658	72	355,932	562,858
28 " 29 "	23	114,029	194,873	20	101,419	173,914	43	215,448	368,787
30 feet and over.....	15	99,913	171,852	14	93,708	160,935	29	193,621	332,787
<b>Totals</b> .....	<b>335</b>	<b>819,885</b>	<b>1,322,815</b>	<b>343</b>	<b>838,806</b>	<b>1,356,374</b>	<b>678</b>	<b>1,658,661</b>	<b>2,670,180</b>
<b>Tug or dredge:</b>									
5 feet and under.....	4	99	123	6	64	123	10	183	246
6 to 7 feet.....	4	177	191	4	471	522	8	648	713
8 " 9 "	19	1,775	1,894	19	1,524	1,829	38	3,299	3,723
10 " 11 "	16	2,888	3,465	18	2,729	4,183	34	5,617	7,648
12 " 13 "	15	3,275	3,875	12	3,071	3,458	27	6,346	7,333
14 " 15 "	3	2,536	2,536	2	632	632	5	3,168	3,168
16 " 17 "	3	2,027	2,392	3	1,664	2,535	6	3,691	4,927
<b>Totals</b> .....	<b>64</b>	<b>12,777</b>	<b>14,476</b>	<b>64</b>	<b>10,155</b>	<b>13,262</b>	<b>128</b>	<b>22,932</b>	<b>27,758</b>
<b>Other vessels:</b>									
5 feet and under.....	6	469	612	10	1,094	1,112	18	1,563	1,724
6 to 7 feet.....	6	606	1,241	7	4,194	15,738	13	4,800	16,979
8 " 9 "	5	1,489	1,677	8	2,732	2,914	13	4,221	4,591
10 " 11 "	4	2,945	2,945	7	5,662	5,662	11	8,607	8,607
12 " 13 "	11	4,896	7,011	13	5,323	8,557	24	10,219	15,568
14 " 15 "	2	3,304	4,516	2	3,304	4,516	4	6,608	9,032
18 " 17 "	1	1,990	1,990	2	3,176	3,750	3	5,168	5,740
18 " 19 "	3	12,355	15,546	2	10,180	10,160	5	22,515	25,706
20 " 21 "	1	12,800	12,800	—	—	—	1	12,800	12,800
22 " 23 "	—	—	—	1	4,122	7,491	1	4,122	7,491
<b>Totals</b> .....	<b>41</b>	<b>40,854</b>	<b>48,338</b>	<b>52</b>	<b>39,767</b>	<b>59,900</b>	<b>93</b>	<b>80,621</b>	<b>108,238</b>
<b>Grand totals</b> .....	<b>4,127</b>	<b>18,483,233</b>	<b>27,234,880</b>	<b>4,150</b>	<b>18,657,825</b>	<b>27,485,214</b>	<b>8,277</b>	<b>37,141,058</b>	<b>54,720,094</b>

TABLE 24A. Cargo Tons Carried Upbound on the Welland 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 tons	Bulk	General	Total
<b>Ports on Lake Ontario and Welland canal:</b>									
Canada	667,436	—	667,436	1,838,557	132,394	1,970,951	2,505,993	132,394	2,638,387
United States	9,827	—	9,827	1,048	—	1,048	10,875	—	10,875
<b>Totals</b>	<b>677,263</b>	<b>—</b>	<b>677,263</b>	<b>1,839,605</b>	<b>132,394</b>	<b>1,971,999</b>	<b>2,516,868</b>	<b>132,394</b>	<b>2,649,262</b>
<b>Ports on the St. Lawrence river:</b>									
Canada	563,680	—	563,680	12,404,623	252,533	12,657,156	12,968,303	252,533	13,220,836
United States	—	—	—	14,670	—	14,670	14,870	—	14,870
<b>Totals</b>	<b>563,680</b>	<b>—</b>	<b>563,680</b>	<b>12,419,293</b>	<b>252,533</b>	<b>12,671,826</b>	<b>12,982,873</b>	<b>252,533</b>	<b>13,235,506</b>
<b>Ports outside the Gulf of St. Lawrence:</b>									
Canada Atlantic ports	21,809	—	21,809	20,958	80,545	101,503	42,767	80,545	123,312
United States Atlantic ports	5,187	—	5,187	324,106	5,164	329,270	329,293	5,164	334,457
United States Hudson River ports	—	—	—	35,920	—	35,920	35,920	—	35,920
United Kingdom	10,271	32,578	42,849	25,961	186,605	212,566	36,232	219,183	255,415
Other British Commonwealth	27,957	—	27,957	75,563	48,957	124,520	103,520	48,957	152,477
Belgium	1,179	10,976	12,155	14,702	515,724	530,426	15,881	526,700	542,581
Denmark	—	—	—	353	4,596	4,949	353	4,596	4,949
Finland	—	—	—	60,975	10,821	71,796	60,975	10,821	71,796
France	—	101	101	71,664	58,890	130,554	71,664	58,991	130,655
Germany	—	362	362	6,011	210,061	216,072	6,011	210,423	216,434
Greece	—	—	—	19,814	752	20,566	19,814	752	20,566
Italy	1,808	—	1,808	5,473	27,408	32,861	7,281	27,408	34,689
Netherlands	—	756	756	14,828	34,433	49,281	14,828	35,189	50,017
Norway	99	7,253	7,352	20,720	18,965	39,685	20,819	26,218	47,037
Portugal	—	—	—	1,665	5,022	6,687	1,665	5,022	6,687
Sweden	—	865	865	17,878	22,293	40,171	17,878	23,158	41,036
Other Europe	—	223	223	34,420	25,795	60,215	34,420	26,018	60,438
Other Central America and Caribbean	45,367	—	45,367	20,918	—	20,918	66,285	—	86,285
South America	46,932	—	46,932	38,484	12,541	51,025	85,416	12,541	97,957
Middle East	—	—	—	39	1,124	1,183	39	1,124	1,163
Other Asia	—	—	—	1,077	331,622	332,699	1,077	331,622	332,699
Other Africa	—	—	—	19,438	8,567	28,005	19,438	8,567	28,005
<b>Totals</b>	<b>160,609</b>	<b>53,114</b>	<b>213,723</b>	<b>830,967</b>	<b>1,609,885</b>	<b>2,440,852</b>	<b>991,576</b>	<b>1,662,899</b>	<b>2,654,575</b>
In transit freight	..	..	..	..	..	..	15,657	..	15,657
<b>Grand totals - Upbound</b>	<b>1,401,552</b>	<b>53,114</b>	<b>1,454,666</b>	<b>15,089,865</b>	<b>1,994,812</b>	<b>17,084,677</b>	<b>16,607,074</b>	<b>2,047,928</b>	<b>18,555,000</b>

<sup>1</sup> Includes 167,337 tons transported via New York State Barge Canal.

TABLE 24B. Cargo Tons Carried Downbound on the Welland 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 tons	Bulk	General	Total
<b>Ports on Lake Ontario and Welland canal:</b>									
Canada	1,946,132	—	1,946,132	11,079,730	7,200	11,086,930	13,025,862	7,200	13,033,062
United States	9,883	—	9,883	322,823	—	322,823	332,706	—	332,706
<b>Totals</b>	<b>1,956,015</b>	<b>—</b>	<b>1,956,015</b>	<b>11,402,553</b>	<b>7,200</b>	<b>11,409,753</b>	<b>13,358,568</b>	<b>7,200</b>	<b>13,365,768</b>
<b>Ports on the St. Lawrence river:</b>									
Canada	8,738,692	—	8,738,692	3,836,739	11,023	3,847,762	12,575,431	11,023	12,586,454
United States	—	—	—	72,332	—	72,332	72,332	—	72,332
<b>Totals</b>	<b>8,738,692</b>	<b>—</b>	<b>8,738,692</b>	<b>3,909,071</b>	<b>11,023</b>	<b>3,920,094</b>	<b>12,647,763</b>	<b>11,023</b>	<b>12,658,766</b>
<b>Ports outside the Gulf of St. Lawrence:</b>									
Canada Atlantic ports	220,445	—	220,445	9,231	168	9,399	229,876	166	229,844
United States Atlantic ports	8,082	10,588	18,670	174,758	—	174,758	182,840	10,588	193,428
United States Hudson River ports	—	—	—	62,454	—	62,454	62,454	—	62,454
United Kingdom	327,102	37,526	364,628	847,570	80,070	927,640	1,174,672	117,596	1,282,268
Other British Commonwealth	7,619	12,111	19,730	47,875	122,182	170,057	55,494	134,293	189,787
Belgium	13,632	1,237	14,869	324,963	42,191	367,154	338,595	43,428	382,023
Denmark	—	161	161	157,279	14,087	171,366	157,279	14,248	171,527
Finland	—	343	343	1,557	6,106	7,663	1,557	6,449	8,006
France	15,278	7,980	23,258	110,984	32,911	143,895	126,262	40,891	167,153
Germany	39,542	8,699	48,441	746,082	62,903	808,985	785,624	71,802	857,426
Greece	—	—	—	19,148	3,845	22,993	19,148	3,845	22,993
Italy	4,741	4,670	9,411	256,843	33,429	290,272	261,584	38,099	299,683
Netherlands	59,816	6,785	66,601	1,518,753	234,940	1,753,693	1,578,589	241,725	1,820,294
Norway	14,614	1,091	15,705	100,653	6,834	107,487	115,267	7,925	123,192
Portugal	—	166	166	5,012	1,621	6,633	5,012	1,787	6,799
Sweden	—	2,374	2,374	12,323	22,901	35,224	12,323	25,275	37,598
Other Europe	94,655	4,321	98,976	153,591	43,470	197,061	248,246	47,791	298,037
Other Central America and Caribbean	1,771	—	1,771	32,126	1,400	33,526	33,897	1,400	35,297
South America	14,477	—	14,477	67,114	56,904	124,018	81,591	56,904	138,495
Middle East	—	67	67	53,831	50,288	104,119	53,831	50,355	104,186
Other Asia	14,377	5,795	20,172	174,357	84,017	258,374	188,734	89,812	278,546
Other Africa	26,425	3,141	29,568	61,103	14,389	75,492	87,528	17,530	105,058
<b>Totals</b>	<b>862,576</b>	<b>107,255</b>	<b>969,831</b>	<b>4,937,607</b>	<b>914,656</b>	<b>5,852,263</b>	<b>5,800,183</b>	<b>1,021,911</b>	<b>6,822,094</b>
In transit freight	..	..	..	..	..	..	14,734	—	14,734
<b>Grand totals - Downbound</b>	<b>11,557,283</b>	<b>107,255</b>	<b>11,664,538</b>	<b>20,249,231</b>	<b>932,879</b>	<b>21,182,110</b>	<b>31,821,248</b>	<b>1,040,134</b>	<b>32,861,382</b>

<sup>1</sup> Includes 232,134 tons transported via New York State Barge Canal.

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	1,608,186	123,880	1,731,066
	United States	19,635	—	19,635
	United Kingdom	47,202	—	47,202
	Other British Commonwealth	841,845	8,079	849,924
	Germany	—	435	435
	<b>Totals</b>	<b>2,516,868</b>	<b>132,394</b>	<b>2,649,262</b>
Ports on the St. Lawrence river	Canada	9,931,751	252,531	10,184,282
	United States	2,122,461	—	2,122,461
	United Kingdom	301,759	—	301,759
	Other British Commonwealth	627,002	—	627,002
	Other European Countries	—	2	2
	<b>Totals</b>	<b>12,982,973</b>	<b>252,533</b>	<b>13,235,506</b>
Ports outside the Gulf of St. Lawrence	Canada	24,320	14,983	39,303
	United States	339,478	50,894	390,372
	United Kingdom	156,317	258,112	414,429
	Other British Commonwealth	15,177	8,659	23,836
	Belgium	417	802	1,219
	Denmark	5,407	13,899	19,306
	Finland	—	1,473	1,473
	France	1,033	23,582	24,615
	Germany	41,224	456,865	498,089
	Greece	84,258	45,691	129,949
	Italy	1,811	29,338	31,149
	Netherlands	2,293	100,055	102,348
	Norway	205,048	316,416	521,464
	Sweden	36,177	67,136	103,313
	Other European Countries	23,665	27,294	50,959
	Panama	7,764	25,355	33,119
	Middle East Countries	696	9,212	9,908
	Other Asian Countries	104	117,527	117,631
	Liberia	45,537	88,718	134,255
	Other African Countries	850	—	850
	Pacific and Indian Ocean Islands	—	6,968	6,988
	<b>Totals</b>	<b>991,576</b>	<b>1,662,999</b>	<b>2,654,575</b>
In transit freight	—	—	—	15,657
<b>Grand totals - Upbound</b>		<b>16,491,417</b>	<b>2,047,926</b>	<b>18,535,343</b>

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	9,700,234	2,892	9,703,126
	United States	661,529	—	661,529
	United Kingdom	442,262	—	442,262
	Other British Commonwealth	2,537,184	—	2,537,184
	Denmark	5,174	542	5,716
	Greece	2,130	3,766	5,896
	Norway	1,056	—	1,056
	Other Europe	8,999	—	8,999
	<b>Totals</b>	<b>13,358,568</b>	<b>7,200</b>	<b>13,365,768</b>
Ports on St. Lawrence river	Canada	10,484,190	11,023	10,495,213
	United States	831,379	—	831,379
	United Kingdom	420,187	—	420,187
	Other British Commonwealth	876,018	—	876,018
	Belgium	12,712	—	12,712
	Germany	3,036	—	3,036
	Italy	9,858	—	9,858
	Norway	10,383	—	10,383
	<b>Totals</b>	<b>12,647,763</b>	<b>11,023</b>	<b>12,658,766</b>
Ports outside the Gulf of St. Lawrence	Canada	201,367	11,752	213,119
	United States	341,514	136,254	477,768
	United Kingdom	1,022,494	96,970	1,119,464
	Other British Commonwealth	6,468	31,637	38,105
	Belgium	63,799	—	63,799
	Denmark	34,446	17,413	51,859
	Finland	944	6,881	7,825
	France	267,996	12,911	280,907
	Germany	812,707	210,171	1,022,878
	Greece	245,465	21,882	267,347
	Italy	130,970	9,246	140,216
	Netherlands	179,863	55,733	235,596
	Norway	1,499,266	142,003	1,641,269
	Sweden	272,326	98,548	370,874
	Other European Countries	96,733	50,828	147,561
	Panama	95,051	—	95,051
	Middle East Countries	43,478	27,083	70,561
	Other Asian Countries	44,253	78,792	123,045
	Liberia	427,092	13,807	440,399
	Pacific and Indian Ocean Islands	13,951	—	13,951
	<b>Totals</b>	<b>5,800,183</b>	<b>1,021,911</b>	<b>6,822,094</b>
In transit freight	—	—	—	14,134
<b>Grand totals - Downbound</b>		<b>31,806,514</b>	<b>1,040,134</b>	<b>32,846,382</b>

TABLE 26. Cargo Tons Carried on the Welland Section of the Seaway by Kind, Gross Tonnage and Number of Vessels

Kind of vessel and gross tonnage	Upbound							Downbound							Average cargo tons per vessel
	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		
<b>Cargo vessel:</b>															
Under 1,000 gross tons	10	61	71	43,232	2,244	45,476	745.5	51	23	74	3,171	9,328	12,499	543.4	
1,000 to 1,999 .....	25	93	118	37,590	73,807	111,397	1,197.8	3	119	122	128,872	79,001	207,873	1,746.8	
2,000 " 2,999 .....	142	344	486	379,981	443,548	823,529	2,394.0	25	462	487	1,188,011	158,258	1,346,269	2,914.0	
3,000 " 3,999 .....	74	197	271	353,235	283,458	636,693	3,231.9	15	257	272	1,037,668	111,766	1,149,434	4,472.5	
4,000 " 4,999 .....	224	219	443	554,248	222,611	776,859	3,547.3	42	397	439	2,075,452	149,121	2,224,573	5,603.5	
5,000 " 5,999 .....	103	171	274	598,119	130,746	728,865	4,282.4	7	261	268	1,338,714	67,674	1,404,388	5,380.8	
6,000 " 6,999 .....	140	191	331	999,795	157,930	1,157,725	6,061.4	4	331	335	2,511,070	152,306	2,663,376	8,046.5	
7,000 " 7,999 .....	133	148	281	1,028,036	157,266	1,185,302	8,008.8	8	279	287	2,558,692	54,407	2,613,099	9,365.9	
8,000 " 8,999 .....	70	116	186	889,444	230,114	919,558	7,927.2	12	180	192	1,652,274	107,881	1,760,155	9,778.6	
9,000 " 9,999 .....	49	83	132	555,382	198,271	753,653	9,080.2	6	125	131	1,166,858	134,220	1,301,078	10,408.6	
10,000 " 10,999 .....	45	108	153	1,539,818	49,492	1,589,310	14,715.8	26	131	157	1,819,303	5,585	1,624,888	13,930.4	
11,000 " 11,999 .....	98	84	182	1,287,643	53,048	1,340,691	15,960.6	23	158	181	2,382,358	10,573	2,392,931	15,145.1	
12,000 " 12,999 .....	71	57	128	840,156	44,280	884,436	15,516.4	2	120	122	2,026,455	—	2,026,455	16,887.1	
13,000 " 13,999 .....	29	31	60	839,905	—	839,905	20,642.1	—	62	62	1,201,085	—	1,201,085	19,372.3	
14,000 " 14,999 .....	6	2	8	417	802	1,219	609.5	—	9	9	138,725	—	138,725	15,413.9	
15,000 " 15,999 .....	27	23	50	532,081	—	532,081	23,134.0	1	49	50	1,113,200	—	1,113,200	22,718.4	
16,000 " 16,999 .....	57	19	76	477,858	—	477,858	25,150.4	2	75	77	1,819,945	—	1,819,945	24,285.9	
17,000 and over .....	68	181	249	4,804,138	—	4,804,138	26,543.0	12	242	254	6,204,122	—	6,204,122	25,636.9	
Totals .....	1,371	2,128	3,499	15,361,078	2,047,617	17,408,695	8,180.8	239	3,280	3,519	30,363,975	1,040,120	31,404,095	9,574.4	
<b>Barge or scow:</b>															
Under 1,000 gross tons	3	—	3	—	—	—	—	—	—	—	—	—	—	—	
1,000 to 3,999 .....	—	—	—	—	—	—	—	2	—	2	—	—	—	—	
4,000 " 4,999 .....	—	—	—	—	—	—	—	2	—	2	—	—	—	—	
Totals .....	3	—	3	—	—	—	—	4	—	4	—	—	—	—	
<b>Tug and scow:</b>															
Under 1,000 gross tons	33	—	33	—	—	—	—	26	2	28	990	—	990	495.0	
1,000 to 1,999 .....	47	104	151	250,039	—	250,039	2,404.2	7	128	135	318,884	—	316,884	2,475.7	
2,000 " 2,999 .....	—	1	1	2,247	—	2,247	2,247.0	—	—	—	—	—	—	—	
4,000 " 4,999 .....	—	—	—	—	—	—	—	3	—	3	—	—	—	—	
9,000 " 9,999 .....	—	—	—	—	—	—	—	2	—	2	—	—	—	—	
Totals .....	80	105	185	252,286	—	252,286	2,402.7	38	130	168	317,874	—	317,874	2,445.2	
<b>Tanker:</b>															
Under 1,000 gross tons	—	8	8	6,433	—	6,433	804.1	8	—	8	—	—	—	—	
1,000 to 1,999 .....	40	73	113	192,238	—	192,238	2,633.4	30	86	116	241,273	—	241,273	2,805.5	
2,000 " 2,999 .....	34	61	95	212,889	—	212,889	3,490.3	41	53	94	180,555	—	180,555	3,406.7	
3,000 " 3,999 .....	2	13	15	81,468	—	61,468	4,728.3	9	7	16	23,887	—	23,887	3,412.4	
4,000 " 4,999 .....	2	14	16	79,832	—	79,832	5,702.3	14	3	17	12,959	—	12,959	4,319.7	
5,000 " 5,999 .....	15	8	23	46,309	—	46,309	5,788.6	3	23	26	164,884	12	164,896	7,169.4	
8,000 " 8,999 .....	12	11	23	24,140	—	24,140	2,194.5	—	25	25	253,303	—	253,303	10,132.1	
9,000 " 9,999 .....	4	3	7	16,240	—	16,240	5,413.3	1	6	7	73,387	2	73,389	1,223.2	
10,000 " 10,999 .....	11	15	28	178,975	—	178,975	16,854.8	15	10	25	137,741	—	137,741	13,774.1	
11,000 " 11,999 .....	2	—	2	—	—	—	—	2	2	2	26,356	—	26,356	13,178.0	
12,000 " 12,999 .....	1	4	5	44,846	1,100	45,946	14,865.0	3	2	5	25,054	—	25,054	12,527.0	
15,000 " 15,999 .....	—	2	2	31,549	—	31,549	15,774.5	2	—	2	—	—	—	—	
Totals .....	123	212	335	892,919	1,100	894,019	4,217.1	126	217	343	1,139,399	14	1,139,413	5,250.8	
<b>Other vessels:</b>															
Under 1,000 gross tons	94	—	94	—	—	—	—	105	—	105	—	—	—	—	
1,000 to 1,999 .....	6	—	6	—	—	—	—	6	—	8	—	—	—	—	
2,000 " 2,999 .....	2	—	2	—	—	—	—	2	—	2	—	—	—	—	
5,000 " 5,999 .....	1	—	1	—	—	—	—	—	—	—	—	—	—	—	
7,000 " 7,999 .....	1	—	1	—	—	—	—	2	—	2	—	—	—	—	
12,000 " 12,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
14,000 " 14,999 .....	1	—	1	—	—	—	—	1	—	1	—	—	—	—	
Totals .....	105	—	105	—	—	—	—	116	—	116	—	—	—	—	
Grand totals .....	1,682	2,445	4,127	16,506,283	2,048,717	18,555,000	7,589.0	523	3,627	4,150	31,821,248	1,040,134	32,861,382	9,060.2	

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	
1	Food, feed, beverages and tobacco:						
1	Fish and marine animals .....	—	—	—	—	33	98
2	Barley .....	—	31,016	—	—	—	—
3	Fruits and fruit preparations .....	—	2	—	—	—	1,157
4	Sugar .....	—	—	—	21,032	—	—
5	Molasses, crude and refined .....	—	—	—	51,958	—	—
6	Sugar preparations (including confectionery) .....	—	—	—	28,742	85	1,022
7	Ale, beer and wines .....	—	—	—	—	—	1,171
8	Distilled alcoholic beverages .....	—	—	—	—	18	29,450
9	Food, feed, beverages and tobacco, n.e.s. ....	7,629	3,490	—	—	6	772
10	<b>Totals</b> .....	<b>7,629</b>	<b>34,508</b>	—	<b>101,732</b>	<b>142</b>	<b>33,670</b>
11	Crude materials, inedible:						
12	Rubber, natural .....	—	—	—	—	—	—
13	Logs and round timber .....	3,112	800	—	—	—	—
13	Pulpwood .....	170,146	39,208	—	—	—	—
14	Aluminum ore and concentrates .....	—	—	—	—	—	—
15	Iron ore .....	3,160	12,679,512	—	—	—	—
16	Metallic ores and concentrates, n.e.s. ....	—	19,845	—	—	—	5
17	Coal, bituminous .....	2,104	—	9,827	—	—	—
18	Clay and bentonite .....	—	25,724	—	—	—	12,449
19	Sand and gravel .....	30,745	—	—	—	—	—
20	Limestone .....	9,676	223,881	—	—	—	—
21	Stone, crushed and broken .....	62,389	959,714	—	—	—	—
22	Fluorspar .....	—	32,675	5,187	27,666	—	—
23	Gypsum .....	16,545	—	—	—	—	—
24	Sulphur .....	—	56,900	—	4,828	—	—
25	Non-metallic minerals, crude, n.e.s. ....	—	3,644	—	3,884	—	169
26	Crude materials, inedible, n.e.s. ....	5,150	—	—	—	9	4,287
27	<b>Totals</b> .....	<b>303,027</b>	<b>14,041,903</b>	<b>15,014</b>	<b>36,378</b>	<b>9</b>	<b>16,910</b>
28	Fabricated materials, inedible:						
29	Wood fabricated materials .....	—	10	—	—	—	33
29	Woodpulp .....	1,599	9,652	—	—	—	—
30	Newsprint paper .....	—	459,871	—	—	—	—
31	Paper and paperboard, n.e.s. ....	—	—	—	—	32	173
32	Cordage, twine and rope .....	—	—	—	1,837	596	1,784
33	Fish and animal oils .....	—	—	—	—	—	44
34	Vegetable oils and fats, n.e.s. ....	—	—	—	—	—	591
35	Chemicals .....	6,754	—	—	5,874	149	8,476
36	Fertilizers .....	—	—	—	—	—	—
37	Chemical products, n.e.s. ....	139,984	—	—	23,790	2,923	3,110
38	Gasoline .....	164,360	—	—	5,966	—	—
39	Fuel oil .....	341,482	11,708	—	95,081	—	—
40	Lubricating oils and greases .....	5,829	—	—	81,944	—	—
41	Tar, pitch and creosote .....	—	7,979	—	24,979	—	—
42	Petroleum and coal products, n.e.s. ....	—	—	—	—	579	—
43	Ferro-alloys .....	—	—	—	—	—	33
44	Pig iron .....	2,247	161,880	—	—	—	—
45	Iron and steel: ingot, bar, rod, etc. ....	—	—	—	—	367	42,182
46	Steel: plate, sheet and strip .....	2	1,590	—	3,327	5,858	10,477
47	Structural shapes and sheet piling .....	—	—	—	—	29,979	28,685
48	Iron and steel: pipes, tubes and fittings .....	—	—	—	—	1,063	5,908
49	Iron and steel: wire and wire rope .....	—	—	—	—	176	13,993
50	Iron and steel, n.e.s. ....	—	—	—	—	—	232
51	Aluminum: bar, ingot, pig and slab .....	—	455	—	—	—	—
52	Non-ferrous metals and alloys, n.e.s. ....	—	—	—	—	3	1,395
53	Metal fabricated basic products, n.e.s. ....	—	—	—	—	54	7,901
54	Glass: plate, sheet and structural .....	—	—	—	—	44	7,436
55	Cement .....	17,040	—	—	—	—	—
56	Miscellaneous fabricated materials, n.e.s. ....	—	—	—	—	19	1,806
57	<b>Totals</b> .....	<b>679,297</b>	<b>653,145</b>	—	<b>242,798</b>	<b>41,842</b>	<b>134,264</b>
58	End products, inedible:						
59	Machinery, equipment and parts .....	—	—	—	—	519	11,638
59	Motor vehicles and parts .....	—	—	—	—	23	9,638
60	End products, inedible, n.e.s. ....	—	—	—	—	14	1,826
61	<b>Totals</b> .....	—	—	—	—	<b>556</b>	<b>23,102</b>
62	Miscellaneous freight, n.e.s. ....	4,616	54	—	—	300	4,620
63	Domestic package freight .....	258,356	—	—	—	—	—
64	In transit freight .....	..	..	..	..	..	..
65	<b>Grand totals—Upbound</b> .....	<b>1,252,925</b>	<b>14,729,610</b>	<b>15,014</b>	<b>380,908</b>	<b>42,849</b>	<b>212,566</b>

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

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									
—	27	8	3,344	—	2,307	41	5,776	5,817	1
—	8,800	—	28,038	—	—	—	67,854	67,854	2
—	3,668	44	18,109	—	7,513	44	30,449	30,493	3
—	—	—	—	—	11,227	—	32,259	32,259	4
—	16,240	—	—	—	4,370	—	72,568	72,568	5
—	—	—	1,256	—	1,130	85	32,150	32,235	6
—	24	—	34,805	—	268	—	36,268	36,268	7
—	819	—	1,655	—	6	18	31,930	31,948	8
—	1,415	160	6,481	—	10,732	7,795	22,890	30,685	9
—	30,993	212	93,688	—	37,553	7,983	332,144	340,127	10
—	33,386	—	—	—	32,193	—	65,579	65,579	11
—	221	—	25	—	809	3,112	1,855	4,967	12
10,925	—	—	19,814	36,310	37,482	170,146	39,208	209,354	13
17,032	39,686	—	10,721	607	—	47,235	57,296	104,531	14
—	—	—	—	—	—	3,160	12,679,512	12,682,672	15
—	—	—	—	—	—	17,639	70,257	87,896	16
—	—	—	—	—	—	11,931	—	11,931	17
—	—	—	—	—	—	30,745	—	38,173	18
—	—	—	—	—	—	9,676	223,881	233,557	19
—	—	—	3,783	—	14	62,389	963,511	1,025,900	20
—	—	—	24,696	—	—	5,187	85,037	90,224	21
—	—	—	—	—	—	16,545	—	16,545	22
—	—	—	—	—	16,548	—	78,276	78,276	23
—	9,951	—	6,210	—	170	—	—	24,028	24,028
—	2,500	—	9,433	—	8,288	5,159	24,508	29,667	25
27,957	85,744	—	74,682	36,917	95,504	382,924	14,351,121	14,734,045	27
—	572	—	9,803	—	29,588	—	40,006	40,006	28
—	—	—	25,928	—	—	1,599	35,580	37,179	29
—	—	—	—	—	—	—	459,871	459,871	30
1,288	592	—	12,174	—	72	32	12,424	12,456	31
—	—	—	16,136	—	433	1,188	21,478	22,666	32
—	—	—	6,221	—	11	—	6,276	6,276	33
—	—	—	9,836	—	5,147	—	15,574	15,574	34
—	—	1,746	9,290	—	1,574	8,649	25,214	33,863	35
—	—	—	753	—	376	—	1,129	1,129	36
1,499	976	—	5,310	—	633	143,883	34,342	178,225	37
—	—	—	—	55,382	—	164,360	5,966	170,326	38
—	—	—	1	—	—	396,864	106,789	503,653	39
—	—	—	99	—	—	5,829	81,945	87,774	40
—	—	—	61	—	—	—	33,057	33,057	41
—	—	—	99	42,809	844	99	43,686	43,785	42
—	—	—	82,976	—	—	2,247	244,856	247,103	43
—	2,720	—	100,851	—	74,148	3,087	217,181	220,268	44
—	404	—	113,642	—	61,664	6,264	190,700	196,964	45
—	2,182	—	343,878	—	35,787	32,161	408,350	440,511	46
—	402	—	10,387	—	6,167	1,465	22,462	23,927	47
—	945	—	89,731	—	17,205	1,121	120,929	122,050	48
—	—	—	3,123	—	596	—	3,951	3,951	49
—	501	—	12,048	—	239	501	12,742	13,243	50
2,735	5,854	—	6,913	—	1,589	5,857	12,632	18,489	51
200	—	907	14,862	—	48,728	961	71,691	72,652	52
89	365	—	29,592	—	903	409	38,020	38,429	53
—	—	—	234	—	—	17,040	234	17,274	54
—	286	840	6,356	—	6,552	859	17,000	17,859	55
—	6,669	18,533	953,014	55,382	294,256	795,054	2,284,146	3,079,200	56
—	—	—	—	—	—	—	—	—	57
—	—	4,731	17,560	—	570	5,250	29,768	35,018	58
—	33	138	49,621	—	922	161	60,214	60,375	59
—	30	—	1,873	—	1,208	14	4,937	4,951	60
—	63	4,869	69,054	—	2,700	5,425	94,919	100,344	61
—	1,051	8	12,825	—	3,797	4,924	22,347	27,271	62
—	—	—	—	—	—	258,356	—	258,356	63
—	—	—	—	—	—	—	—	15,657	64
27,957	124,520	23,622	1,203,263	92,299	433,810	1,454,666	17,084,677	18,555,000	65

TABLE 27 B. Commodities Carried Downbound on the Welland Section of the Seaway, by Country of Loading and Unloading

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	—	—	—	—	—	—	—	—	
2 Butter	—	—	—	—	—	—	—	—	
3 Milk powder	—	—	—	—	—	—	—	—	
4 Barley	579,854	11,175	77,302	—	—	—	—	668,331	
5 Corn	20,232	—	—	—	—	—	—	20,232	
6 Oats	388,292	—	11,746	—	5,445	3,991	409,474	409,474	
7 Rye	25,042	—	1,400	—	41,153	—	—	67,595	
8 Wheat	8,680,789	—	27,533	4,361	136,677	9,742	8,859,102	8,859,102	
9 Cereals, unmilled, n.e.s.	3,726	—	—	—	2,202	—	—	5,928	
10 Corn meal	—	—	—	—	—	126	—	126	
11 Malt	53,480	—	—	1,846	—	3,757	—	59,083	
12 Flour, wheat	16,607	—	50,309	781	—	21,331	—	89,028	
13 Grain, flour, meal and cereals, n.e.s.	—	—	185	—	—	170	—	355	
14 Beans and peas, dried	22,263	—	12,684	—	—	—	—	34,947	
15 Molasses, crude and refined	—	—	—	—	—	—	—	—	
16 Margarine, shortening and lard	—	—	—	—	—	—	—	—	
17 Fodder and feed, n.e.s.	43,370	—	64,117	—	10,180	2,678	—	120,345	
18 Soyabean oil cake and meal	—	—	—	—	—	—	—	—	
19 Food, beverages, tobacco, n.e.s.	—	—	7,467	—	778	—	—	8,265	
20 Totals	9,833,655	11,175	252,763	6,988	196,435	41,795	10,342,811		
Crude materials, inedible:									
21 Raw hides and skins	—	—	—	—	59	—	—	59	
22 Flaxseed	184,579	—	55,195	—	25,854	—	—	265,628	
23 Soyahbeans	16,315	—	—	—	33	—	—	18,348	
24 Pulpwood	45,529	—	—	—	—	—	—	45,529	
25 Iron ore	—	—	—	—	—	—	—	—	
26 Iron and steel scrap	2,380	—	—	—	—	14,377	—	16,757	
27 Non-ferrous metal scrap	—	—	—	—	—	—	—	—	
28 Coal, bituminous	846	—	—	—	—	—	—	846	
29 Natural asphalt (Gilsomite)	—	—	—	—	—	—	—	—	
30 Clay and bentonite	—	—	—	—	—	—	—	—	
31 Sand and gravel	17,958	—	—	—	—	—	—	17,958	
32 Stone, crushed and broken	36,062	—	—	—	—	—	—	36,062	
33 Salt	195,102	6,790	—	—	—	—	—	201,102	
34 Waste and scrap materials, n.e.s.	—	—	—	—	7	—	—	7	
35 Crude materials, inedible, n.e.s.	9,103	—	585	316	2,577	—	—	12,681	
36 Totals	509,874	6,790	55,780	316	28,530	14,377	—	615,667	
Fabricated materials, inedible:									
37 Paper and paperboard	—	10,588	11,000	2,275	5,047	—	—	28,910	
38 Fish and animal oils	—	—	—	—	878	—	—	878	
39 Oils, fats, waxes, n.e.s.	—	—	—	—	—	—	—	—	
40 Sodium products	—	—	—	—	—	—	—	—	
41 Chemicals, n.e.s.	53,383	—	20,143	—	6,315	212	—	80,053	
42 Rubber, synthetic and reclaimed	—	—	5,681	4,657	27,282	5,297	—	42,917	
43 Chemical products, n.e.s.	29,291	—	12,412	4,341	14,516	353	—	60,913	
44 Gasoline	9,490	—	—	—	—	—	—	9,490	
45 Fuel oil	170,836	—	—	—	—	—	—	170,836	
46 Lubricating oils and greases	12,059	—	—	—	—	—	—	12,059	
47 Coke	—	—	4,020	—	—	—	—	4,020	
48 Asphalt	—	—	—	—	—	—	—	—	
49 Tar, pitch and creosote	13,308	—	—	—	—	—	—	13,308	
50 Petroleum and coal products, n.e.s.	1,778	—	94	—	139	—	—	2,011	
51 Iron and steel: ingot, billet, rod, etc.	—	—	—	—	—	—	—	—	
52 Steel: plate, sheet and strip	136	—	—	6	—	—	—	142	
53 Structural shapes and sheet piling	1,504	—	—	1,057	—	—	—	2,561	
54 Iron and steel: pipes, tubes and fittings	—	—	—	—	—	3,141	—	3,141	
55 Iron and steel, n.e.s.	—	—	—	—	—	—	—	—	
56 Non-ferrous metals and alloys	307	—	121	—	2	—	—	430	
57 Cement	2,977	—	—	—	—	—	—	2,977	
58 Miscellaneous fabricated materials, n.e.s.	1,123	—	2,151	—	1,795	—	—	5,069	
59 Totals	296,192	10,588	55,622	12,336	55,096	9,881	—	439,715	
End products, inedible:									
60 Machinery, equipment and parts	—	—	—	89	15	—	—	104	
61 Motor vehicles and parts	—	—	399	—	223	—	—	622	
62 End products, inedible, n.e.s.	—	—	12	—	6	—	—	18	
63 Totals	—	—	411	89	244	—	—	744	
64 Miscellaneous freight, n.e.s.	—	—	52	1	—	—	—	53	
65 Domestic package freight	265,548	—	—	—	—	—	—	265,548	
66 In transit freight	—	..	..	..	..	..	..	—	
67 Grand totals - Downbound	10,905,269	28,553	364,628	19,730	280,305	66,053	11,664,538		

TABLE 27 B. Commodities Carried Downbound on the Welland Section of the Seaway, by Country of Loading and Unloading

Canada	United States	United Kingdom	Other British Commonwealth	Other Europe	Other countries	Total	Grand total	No.	United States to	
									tons	
—	—	8,097	2,491	33,955	568	45,111	45,111	1		
—	—	—	5,242	3,863	8,102	17,207	17,207	2		
4,151	—	5,130	15,335	173,933	99,747	298,296	298,296	3		
100,423	21,856	29,618	11,865	549,030	—	712,792	1,381,123	4		
1,878,910	2,688	534,983	—	1,091,134	1,064	3,508,779	3,529,011	5		
—	—	2,240	—	61,601	—	63,841	473,315	6		
6,106	—	—	—	77,912	—	84,018	151,613	7		
583,095	4,037	11,733	1,095	261,097	95,447	956,504	9,815,606	8		
—	—	6	223	1,275	1,012	2,516	8,444	9		
4,340	—	—	23,080	3,683	67,148	98,251	98,377	10		
—	—	5	8	—	13,308	13,321	72,404	11		
4,740	—	168	4,203	34,427	109,310	152,848	241,876	12		
140	—	3,196	1,342	2,169	10,469	17,316	17,671	13		
130,290	—	34,022	4,875	27,825	6,720	203,732	238,679	14		
—	2,398	—	—	—	—	2,398	2,398	15		
—	—	137,376	—	4,903	2,744	145,023	145,023	16		
—	—	11,421	738	182,265	1,687	196,091	316,436	17		
12,345	—	1,124	—	81,260	—	94,729	94,729	18		
—	—	2,456	538	18,602	1,747	23,343	31,608	19		
2,724,540	30,979	781,575	71,035	2,808,934	419,053	6,636,116	16,978,927	20		
—	—	6,370	98	58,146	7,714	72,328	72,387	21		
—	—	—	—	150,971	—	150,971	416,599	22		
973,557	1,444	35,648	—	400,321	23,178	1,434,148	1,452,496	23		
—	—	—	—	32	—	32	45,561	24		
4,095,299	—	—	—	—	—	4,095,299	4,095,299	25		
95,200	—	—	—	270,063	36,500	401,763	418,520	26		
—	—	1,001	183	6,748	4,531	12,463	12,463	27		
6,320,784	—	—	—	17	—	6,320,801	6,321,647	28		
—	—	4,133	—	2,248	—	6,381	6,381	29		
117,511	—	5,995	384	5,631	95	129,596	129,596	30		
76,213	—	—	—	77	—	76,290	94,248	31		
—	—	—	—	—	—	—	36,062	32		
161,180	—	—	—	—	—	141,180	343,072	33		
9,581	—	1,467	110	7,455	1,110	10,142	10,149	34		
—	—	3,615	66	24,755	1,715	39,732	52,313	35		
11,829,325	1,444	58,229	821	926,464	74,843	12,891,126	13,506,793	36		
—	—	919	625	833	536	2,913	31,623	37		
—	—	32,640	—	143,345	21,007	196,992	197,870	38		
4,050	4,008	2,892	811	9,618	2,756	23,735	23,735	39		
13,414	88,247	—	3,073	2,013	10,851	117,398	117,398	40		
14,481	26,600	1,712	1,557	16,788	3,759	64,897	144,950	41		
—	—	519	—	569	135	1,223	44,140	42		
960	1,518	9,611	4,057	43,584	8,482	66,212	129,125	43		
—	36,941	—	—	2,976	—	36,967	46,457	44		
49,941	290,853	—	—	—	—	343,770	514,606	45		
—	—	2,296	102	6,793	258	9,449	21,508	46		
262,597	—	518	—	7,847	16	270,978	274,998	47		
—	2,542	67	—	196	23	2,828	2,828	48		
30,881	35,464	—	—	486	—	66,811	80,119	49		
—	9,072	1,885	44	2,535	180	13,716	15,727	50		
—	30	195	1,525	15,411	513	17,674	17,674	51		
—	—	4,709	25,845	3,946	14,464	48,964	49,106	52		
—	—	237	2,878	258	50	3,423	5,984	53		
—	—	91	573	552	779	1,995	5,136	54		
7,533	—	140	131	517	79	8,400	8,400	55		
—	—	2,669	290	3,444	527	6,920	7,360	56		
—	104,254	—	—	—	—	104,254	107,231	57		
27	415	6,556	798	16,642	2,716	27,154	32,223	58		
383,864	599,944	67,456	42,109	278,379	66,931	1,438,683	1,878,398	59		
1,369	—	12,400	21,452	31,370	11,434	78,025	78,129	60		
1,211	—	2,597	31,909	35,338	20,011	91,066	91,688	61		
—	—	3,375	1,067	6,665	1,771	12,878	12,896	62		
2,580	—	18,372	54,428	73,373	33,216	181,969	182,713	63		
3,782	—	2,008	1,864	25,276	1,486	34,216	34,289	64		
—	—	—	—	—	—	—	265,548	65		
—	..	..	..	..	..	..	14,734	66		
14,944,021	632,367	927,640	170,057	3,912,426	595,529	21,182,110	32,861,382	67		

**SAULT STE. MARIE CANAL**  
**TABLE 28. Location and Description**

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

**TABLE 29. Historical Summary, 1955-64**

Registry of vessel	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Vessel transits										
Upbound:										
Canada .....	1,766	1,913	1,607	1,295	1,111	1,331	1,150	899	877	938
United States .....	765	700	138	105	233	113	121	137	111	88
United Kingdom <sup>1</sup> .....	—	1	—	6	13	40	50	8	6	9
Other foreign .....	8	9	4	41	15	46	31	31	5	6
<b>Totals .....</b>	<b>2,539</b>	<b>2,623</b>	<b>1,749</b>	<b>1,447</b>	<b>1,372</b>	<b>1,530</b>	<b>1,352</b>	<b>1,075</b>	<b>999</b>	<b>1,041</b>
Downbound:										
Canada .....	1,587	1,655	1,186	1,033	914	1,055	882	782	844	769
United States .....	774	712	720	918	2,126	2,232	1,215	1,272	1,206	1,242
United Kingdom <sup>1</sup> .....	—	1	—	4	11	21	18	11	1	7
Other foreign .....	8	9	4	40	5	17	6	10	—	3
<b>Totals .....</b>	<b>2,369</b>	<b>2,377</b>	<b>1,910</b>	<b>1,995</b>	<b>3,056</b>	<b>3,325</b>	<b>2,121</b>	<b>2,075</b>	<b>2,051</b>	<b>2,021</b>
<b>Grand totals .....</b>	<b>4,908</b>	<b>5,000</b>	<b>3,659</b>	<b>3,442</b>	<b>4,428</b>	<b>4,855</b>	<b>3,473</b>	<b>3,150</b>	<b>3,050</b>	<b>3,062</b>
Registered net tons										
Upbound:										
Canada .....	2,019,797	2,566,237	1,944,257	1,572,412	1,380,730	1,815,064	1,733,304	1,169,023	992,176	1,455,474
United States .....	392,277	372,726	332,883	109,314	132,294	116,627	156,698	177,559	96,768	72,521
United Kingdom <sup>1</sup> .....	—	727	—	3,756	10,857	90,719	140,819	23,182	20,357	47,397
Other foreign .....	6,612	8,655	2,934	31,963	17,805	111,846	87,769	69,455	12,370	8,897
<b>Totals .....</b>	<b>2,418,686</b>	<b>2,948,345</b>	<b>2,280,074</b>	<b>1,717,445</b>	<b>1,541,686</b>	<b>2,134,256</b>	<b>2,118,590</b>	<b>1,439,219</b>	<b>1,121,671</b>	<b>1,584,289</b>
Downbound:										
Canada .....	1,396,128	1,807,982	1,097,372	819,918	811,597	1,035,640	890,089	884,201	878,812	915,561
United States .....	298,362	308,720	320,512	281,689	321,962	314,074	184,050	271,052	200,712	230,046
United Kingdom <sup>1</sup> .....	—	727	—	2,107	8,487	21,222	17,125	10,517	4,584	37,853
Other foreign .....	6,582	8,685	2,934	31,001	4,040	20,059	10,363	14,556	—	3,098
<b>Totals .....</b>	<b>1,701,072</b>	<b>2,126,114</b>	<b>1,420,818</b>	<b>1,134,715</b>	<b>1,146,086</b>	<b>1,300,995</b>	<b>1,101,627</b>	<b>1,180,326</b>	<b>1,084,108</b>	<b>1,186,558</b>
<b>Grand totals .....</b>	<b>4,119,758</b>	<b>5,074,459</b>	<b>3,700,892</b>	<b>2,852,160</b>	<b>2,687,772</b>	<b>3,525,251</b>	<b>3,220,217</b>	<b>2,619,545</b>	<b>2,205,779</b>	<b>2,770,847</b>
Cargo tons										
Upbound:										
Canada .....	641,701	683,604	571,437	327,050	383,755	600,864	429,458	320,135	182,517	344,038
United States .....	68,210	67,797	52,642	12,537	47,507	114,753	25,774	28,355	18,068	44,517
United Kingdom <sup>1</sup> .....	—	—	—	—	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	—	2,019
<b>Totals .....</b>	<b>713,054</b>	<b>758,303</b>	<b>626,650</b>	<b>347,168</b>	<b>437,696</b>	<b>727,656</b>	<b>467,774</b>	<b>357,232</b>	<b>200,714</b>	<b>390,574</b>
Downbound:										
Canada .....	1,461,155	2,204,837	1,151,155	821,218	770,182	963,511	655,884	722,480	589,883	530,951
United States .....	21,408	17,616	2,485	6,682	15,113	8,533	4,810	15,155	19,408	42,711
United Kingdom <sup>1</sup> .....	—	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	—	2,401
<b>Totals .....</b>	<b>1,487,121</b>	<b>2,230,973</b>	<b>1,158,050</b>	<b>881,492</b>	<b>794,998</b>	<b>992,966</b>	<b>673,176</b>	<b>749,897</b>	<b>609,291</b>	<b>576,063</b>
<b>Grand totals .....</b>	<b>2,201,075</b>	<b>2,989,278</b>	<b>1,784,700</b>	<b>1,228,661</b>	<b>1,232,694</b>	<b>1,720,622</b>	<b>1,140,050</b>	<b>1,107,129</b>	<b>610,005</b>	<b>966,637</b>
Season of navigation										
First vessel passage.....	April 11	April 5	April 5	April 8	April 13	April 4	April 11	April 3	April 4	April 13
Last vessel passage.....	Dec. 12	Dec. 12	Dec. 12	Dec. 11	Dec. 12	Dec. 12	Dec. 12	Dec. 12	Nov. 30	Dec. 12

<sup>1</sup> 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				
<b>Upbound:</b>							
Cargo .....	363	117	480	1,103,636	1,606,248	141,102	-
Passenger-cargo .....	44	24	68	84,071	113,718	2,119	6,017
Cargo-passenger .....	-	2	2	2,718	4,275	2,019	-
Scow, barge, etc. .....	26	-	26	19,591	20,096	-	-
Tug and scow .....	206	5	211	224,472	229,409	3,976	-
Tanker .....	16	76	92	127,553	195,583	241,358	-
Tug or dredge .....	138	-	138	19,171	23,431	-	-
Naval or Government .....	22	-	22	2,732	6,054	-	-
All other types .....	2	-	2	345	472	-	-
<b>Totals</b> .....	<b>817</b>	<b>224</b>	<b>1,041</b>	<b>1,584,289</b>	<b>2,199,286</b>	<b>390,574</b>	<b>6,017</b>
<b>Downbound:</b>							
Cargo .....	58	167	225	424,803	617,020	355,540	3
Passenger-cargo .....	1,183	44	1,227	204,328	277,809	52,377	125,376
Cargo-passenger .....	2	2	4	2,337	4,201	2,401	-
Scow, barge, etc. .....	5	18	23	16,772	17,176	12,772	-
Tug and scow .....	52	140	192	184,877	189,202	93,700	-
Tanker .....	161	21	182	331,389	512,643	59,273	-
Tug or dredge .....	151	-	151	20,355	25,445	-	-
Naval or Government .....	16	-	16	1,682	3,591	-	-
All other types .....	1	-	1	15	15	-	-
<b>Totals</b> .....	<b>1,629</b>	<b>392</b>	<b>2,021</b>	<b>1,186,558</b>	<b>1,647,102</b>	<b>576,063</b>	<b>125,379</b>
<b>Grand totals</b> .....	<b>2,446</b>	<b>616</b>	<b>3,062</b>	<b>2,770,847</b>	<b>3,846,388</b>	<b>966,637</b>	<b>131,396</b>

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				
<b>Upbound:</b>							
Canada .....	748	190	938	1,455,474	2,032,778	344,038	2,631
United States .....	56	32	88	72,521	90,693	44,517	3,366
United Kingdom .....	2	-	2	9,672	13,927	-	-
Other British Commonwealth .....	7	-	7	37,725	46,484	-	-
Germany .....	3	2	5	7,967	13,663	2,019	-
Norway .....	1	-	1	930	1,741	-	-
<b>Totals</b> .....	<b>817</b>	<b>224</b>	<b>1,041</b>	<b>1,584,289</b>	<b>2,199,286</b>	<b>390,574</b>	<b>6,017</b>
<b>Downbound:</b>							
Canada .....	393	376	769	915,561	1,266,319	530,951	6,419
United States .....	1,228	14	1,242	230,046	325,160	42,711	118,960
Other British Commonwealth .....	7	-	7	37,653	50,067	-	-
Germany .....	-	2	2	2,089	3,527	2,401	-
Sweden .....	1	-	1	1,009	2,029	-	-
<b>Totals</b> .....	<b>1,629</b>	<b>392</b>	<b>2,021</b>	<b>1,186,558</b>	<b>1,647,102</b>	<b>576,063</b>	<b>125,379</b>
<b>Grand totals</b> .....	<b>2,446</b>	<b>616</b>	<b>3,062</b>	<b>2,770,847</b>	<b>3,846,388</b>	<b>966,637</b>	<b>131,396</b>

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				
<b>Upbound:</b>							
Under 80 feet .....	111	—	111	8,378	9,441	—	3,386
80 to 119 feet .....	99	21	110	11,499	14,464	3,030	—
120 " 159 "	105	—	105	56,953	60,338	—	—
160 " 199 "	1	—	1	635	1,091	—	—
200 " 239 "	106	5	111	152,584	158,596	3,976	—
240 " 279 "	127	80	217	257,958	393,424	191,700	—
280 " 319 "	47	12	59	120,841	186,583	40,409	—
320 " 359 "	124	44	168	411,270	581,307	59,520	2,631
360 " 399 "	8	31	39	102,020	144,470	39,416	—
400 " 439 "	19	22	41	137,742	184,147	31,017	—
440 " 479 "	22	8	30	95,408	147,958	19,371	—
480 " 519 "	29	—	29	127,320	180,955	—	—
520 " 559 "	15	—	15	76,433	105,605	—	—
560 " 599 "	4	1	5	25,248	30,907	2,135	—
<b>Totals .....</b>	<b>817</b>	<b>224</b>	<b>1,041</b>	<b>1,584,289</b>	<b>2,199,286</b>	<b>390,574</b>	<b>6,017</b>
<b>Downbound:</b>							
Under 80 feet .....	1,252	—	1,252	84,430	103,720	—	121,465
80 to 119 feet .....	124	—	124	11,411	14,607	—	—
120 " 159 "	44	60	104	57,273	60,790	32,270	—
160 " 199 "	—	1	1	634	1,091	901	—
200 " 239 "	9	99	108	151,437	156,233	74,802	—
240 " 279 "	93	109	202	241,976	384,234	259,084	3
280 " 319 "	20	31	51	101,318	156,882	68,310	—
320 " 359 "	26	51	77	202,574	285,331	78,660	3,911
360 " 399 "	14	23	37	96,737	139,520	38,984	—
400 " 439 "	14	14	28	92,463	126,133	18,218	—
440 " 479 "	20	4	24	83,240	132,018	4,834	—
480 " 519 "	6	—	6	25,212	36,476	—	—
520 " 559 "	4	—	4	20,546	29,565	—	—
560 " 599 "	3	—	3	17,307	20,502	—	—
<b>Totals .....</b>	<b>1,629</b>	<b>392</b>	<b>2,021</b>	<b>1,186,558</b>	<b>1,647,102</b>	<b>576,063</b>	<b>125,379</b>
<b>Grand totals .....</b>	<b>2,446</b>	<b>616</b>	<b>3,062</b>	<b>2,770,847</b>	<b>3,846,388</b>	<b>966,637</b>	<b>131,396</b>

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
<b>Originating at ports between the Gulf of St. Lawrence and Sault Ste. Marie:</b>									
Registry:									
Canada .....	929	1,431,896	1,999,533	8	23,550	33,148	937	1,455,448	2,032,681
United States .....	4	13,138	14,160	84	59,383	76,513	88	72,521	90,693
United Kingdom .....	2	9,672	13,927	—	—	—	2	9,672	13,927
Other British Commonwealth .....	3	14,649	19,148	4	23,076	27,336	7	37,725	46,484
Germany .....	1	2,291	4,309	2	2,958	5,079	3	5,249	9,388
Norway .....	1	930	1,741	—	—	—	1	930	1,741
<b>Totals .....</b>	<b>940</b>	<b>1,472,576</b>	<b>2,052,838</b>	<b>98</b>	<b>108,967</b>	<b>142,076</b>	<b>1,038</b>	<b>1,581,543</b>	<b>2,194,914</b>
<b>Originating at ports outside the Gulf of St. Lawrence:</b>									
Registry:									
Canada .....	1	28	97	—	—	—	1	28	97
Germany .....	—	—	—	2	2,718	4,275	2	2,718	4,275
<b>Totals .....</b>	<b>1</b>	<b>28</b>	<b>97</b>	<b>2</b>	<b>2,718</b>	<b>4,275</b>	<b>3</b>	<b>2,746</b>	<b>4,372</b>
<b>Grand totals — Upbound .....</b>	<b>941</b>	<b>1,472,604</b>	<b>2,052,935</b>	<b>100</b>	<b>111,685</b>	<b>146,351</b>	<b>1,041</b>	<b>1,584,289</b>	<b>2,199,286</b>

TABLE 33B. 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
<b>Destined to ports between Sault Ste. Marie and the Gulf of St. Lawrence:</b>									
Registry:									
Canada .....	757	909,936	1,257,774	11	3,584	5,382	768	913,520	1,263,156
United States .....	425	24,229	34,355	817	205,817	290,805	1,242	230,046	325,160
Other British Commonwealth .....	7	37,853	50,067	-	-	-	7	37,853	50,067
Sweden .....	-	-	-	1	1,009	2,029	1	1,009	2,029
<b>Totals .....</b>	<b>1,189</b>	<b>972,018</b>	<b>1,342,196</b>	<b>829</b>	<b>210,410</b>	<b>298,216</b>	<b>2,018</b>	<b>1,182,428</b>	<b>1,640,412</b>
<b>Destined to ports outside the Gulf of St. Lawrence:</b>									
Registry:									
Canada .....	-	-	-	1	2,041	3,163	1	2,041	3,163
Germany .....	-	-	-	2	2,089	3,527	2	2,089	3,527
<b>Totals .....</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>4,130</b>	<b>6,690</b>	<b>3</b>	<b>4,130</b>	<b>6,690</b>
<b>Grand totals — Downbound .....</b>	<b>1,189</b>	<b>972,018</b>	<b>1,342,196</b>	<b>832</b>	<b>214,540</b>	<b>304,906</b>	<b>2,021</b>	<b>1,186,558</b>	<b>1,647,102</b>

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
<b>Upbound:</b>												
Canada .....	351	763,506	1,113,620	353	457,442	679,490	234	234,226	239,668	938	1,455,474	2,032,778
United States .....	10	29,206	37,506	75	33,478	43,350	3	9,837	9,637	88	72,521	90,693
United Kingdom .....	2	9,672	13,927	-	-	-	-	-	-	2	9,672	13,927
Other British Commonwealth .....	7	37,725	46,464	-	-	-	-	-	-	7	37,725	46,484
Germany .....	-	-	-	5	7,967	13,663	-	-	-	5	7,967	13,663
Norway .....	-	-	-	1	930	1,741	-	-	-	1	930	1,741
<b>Totals .....</b>	<b>370</b>	<b>840,409</b>	<b>1,211,537</b>	<b>434</b>	<b>499,817</b>	<b>738,244</b>	<b>237</b>	<b>244,063</b>	<b>249,505</b>	<b>1,041</b>	<b>1,584,289</b>	<b>2,199,286</b>
<b>Downbound:</b>												
Canada .....	291	508,494	746,505	264	206,820	314,938	214	200,147	204,876	769	915,561	1,266,319
United States .....	42	115,017	181,075	1,199	113,527	142,583	1	1,502	1,502	1,242	230,046	325,160
Other British Commonwealth .....	7	37,853	50,067	-	-	-	-	-	-	7	37,853	50,067
Germany .....	-	-	-	2	2,089	3,527	-	-	-	2	2,089	3,527
Sweden .....	-	-	-	1	1,009	2,029	-	-	-	1	1,009	2,029
<b>Totals .....</b>	<b>340</b>	<b>661,364</b>	<b>977,647</b>	<b>1,466</b>	<b>323,545</b>	<b>483,077</b>	<b>215</b>	<b>201,649</b>	<b>206,378</b>	<b>2,021</b>	<b>1,186,558</b>	<b>1,647,102</b>
<b>Grand totals .....</b>	<b>710</b>	<b>1,501,773</b>	<b>2,189,184</b>	<b>1,900</b>	<b>823,362</b>	<b>1,201,321</b>	<b>452</b>	<b>445,712</b>	<b>455,883</b>	<b>3,062</b>	<b>2,770,847</b>	<b>3,846,388</b>

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
<b>Cargo vessel:</b>									
Under 80 feet .....	41	4,330	5,346	1,181	80,546	99,764	1,222	84,876	105,110
80 to 119 feet .....	21	1,722	2,058	22	1,804	2,156	43	3,526	4,214
120 " 159 "	-	-	-	3	942	1,368	3	942	1,368
160 " 199 "	1	635	1,091	1	634	1,091	2	1,269	2,182
240 " 279 "	134	170,723	254,824	102	122,896	190,298	236	293,619	445,122
280 " 319 "	51	107,949	166,325	32	70,704	108,776	83	178,653	275,101
320 " 359 "	147	355,544	515,615	48	127,974	184,580	195	483,518	700,195
360 " 399 "	35	87,371	129,410	29	73,528	106,187	64	160,899	235,597
400 " 439 "	41	137,742	184,147	21	73,395	95,109	62	211,137	279,256
440 " 479 "	30	95,408	147,958	4	15,980	23,158	34	111,388	171,116
480 " 519 "	29	127,320	180,955	6	25,212	36,476	35	152,532	217,431
520 " 559 "	15	76,433	105,605	4	20,546	29,565	19	96,979	135,170
560 " 599 "	5	25,248	30,907	3	17,307	20,502	8	42,555	51,409
<b>Totals .....</b>	<b>350</b>	<b>1,190,425</b>	<b>1,724,241</b>	<b>1,436</b>	<b>631,468</b>	<b>899,030</b>	<b>2,006</b>	<b>1,821,893</b>	<b>2,623,271</b>
<b>Barge or scow:</b>									
Under 80 feet .....	1	102	102	1	102	102	2	204	204
80 to 119 feet .....	4	278	278	4	278	278	8	556	556
120 " 159 "	9	5,676	5,676	8	5,096	5,096	17	10,772	10,772
200 " 239 "	12	13,535	14,040	10	11,296	11,700	22	24,831	25,740
<b>Totals .....</b>	<b>26</b>	<b>19,591</b>	<b>20,096</b>	<b>23</b>	<b>16,772</b>	<b>17,176</b>	<b>49</b>	<b>36,363</b>	<b>37,272</b>
<b>Tug and scow:</b>									
Under 80 feet .....	5	777	777	3	439	439	3	1,216	1,216
80 to 119 feet .....	41	5,680	5,753	36	4,755	4,755	77	10,435	10,508
120 " 159 "	55	38,962	39,942	56	40,168	41,148	111	79,130	81,090
200 " 239 "	97	137,737	141,210	97	139,515	142,860	194	277,252	284,070
320 " 359 "	9	26,667	28,667	-	-	-	9	26,667	26,667
360 " 399 "	4	14,649	15,060	-	-	-	4	14,649	15,060
<b>Totals .....</b>	<b>211</b>	<b>224,472</b>	<b>229,409</b>	<b>192</b>	<b>184,877</b>	<b>189,202</b>	<b>403</b>	<b>409,349</b>	<b>418,611</b>
<b>Tanker:</b>									
240 to 279 feet .....	72	85,602	136,300	100	119,080	193,936	172	204,682	330,236
280 " 319 "	8	12,892	20,258	19	30,614	48,106	27	43,506	68,364
320 " 359 "	12	29,059	39,025	28	72,158	97,384	40	101,217	136,409
360 " 399 "	-	-	-	8	23,209	33,333	8	23,209	33,333
400 " 439 "	-	-	-	7	19,068	31,024	7	19,068	31,024
440 " 479 "	-	-	-	20	67,260	108,860	20	67,260	108,860
<b>Totals .....</b>	<b>92</b>	<b>127,553</b>	<b>195,583</b>	<b>182</b>	<b>331,389</b>	<b>512,643</b>	<b>274</b>	<b>458,942</b>	<b>708,226</b>
<b>Tub or dredge:</b>									
Under 80 feet .....	50	2,550	2,561	55	2,825	2,861	105	5,375	5,422
80 to 119 feet .....	52	3,474	5,903	62	4,574	7,418	114	8,048	13,321
120 " 159 "	35	11,514	12,667	33	10,514	11,799	68	22,028	24,466
240 " 279 "	1	1,633	2,300	1	2,442	3,367	2	4,075	5,667
<b>Totals .....</b>	<b>138</b>	<b>19,171</b>	<b>23,431</b>	<b>151</b>	<b>20,355</b>	<b>25,445</b>	<b>289</b>	<b>39,526</b>	<b>48,876</b>
<b>Other vessels:</b>									
Under 80 feet .....	14	619	655	12	518	554	28	1,137	1,209
80 to 119 feet .....	2	345	472	-	-	-	2	345	472
120 " 159 "	6	801	2,053	4	553	1,379	10	1,354	3,432
200 " 239 "	2	1,312	3,348	1	626	1,673	3	1,938	5,019
<b>Totals .....</b>	<b>24</b>	<b>3,077</b>	<b>6,526</b>	<b>17</b>	<b>1,697</b>	<b>3,606</b>	<b>41</b>	<b>4,774</b>	<b>10,132</b>
<b>Grand totals .....</b>	<b>1,041</b>	<b>1,584,289</b>	<b>2,199,286</b>	<b>2,021</b>	<b>1,186,558</b>	<b>1,847,102</b>	<b>3,062</b>	<b>2,770,847</b>	<b>3,846,388</b>

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
<b>Cargo vessels:</b>									
5 feet and under .....	1	39	92	2	26	26	3	65	118
6 to 7 feet .....	39	3,252	3,726	1,175	80,328	99,458	1,214	83,580	103,184
8 " 9 "	-	-	-	6	1,010	1,311	6	1,010	1,311
12 " 13 "	45	29,240	42,100	26	5,045	7,077	71	34,285	49,177
14 " 15 "	11	24,528	33,181	12	12,078	17,922	23	36,606	51,103
16 " 17 "	119	188,536	289,879	106	155,751	246,259	225	344,287	536,138
18 " 19 "	102	263,924	369,365	80	153,328	226,134	162	417,252	595,499
20 " 21 "	179	523,774	757,609	53	175,364	233,548	232	699,156	991,155
22 " 23 "	45	122,228	177,908	11	31,562	42,299	56	153,790	220,207
24 " 25 "	9	34,904	50,381	5	16,956	24,998	14	51,860	75,379
<b>Totals</b> .....	<b>550</b>	<b>1,190,425</b>	<b>1,724,241</b>	<b>1,456</b>	<b>631,468</b>	<b>899,030</b>	<b>2,006</b>	<b>1,821,893</b>	<b>2,623,271</b>
<b>Barge or scow:</b>									
5 feet and under .....	23	16,384	16,586	6	960	960	29	17,344	17,548
6 to 7 feet .....	3	3,207	3,510	2	1,649	1,750	5	4,856	5,260
8 " 9 "	-	-	-	14	13,094	13,296	14	13,094	13,296
10 " 11 "	-	-	-	1	1,069	1,170	1	1,069	1,170
<b>Totals</b> .....	<b>26</b>	<b>19,591</b>	<b>20,096</b>	<b>23</b>	<b>16,772</b>	<b>17,176</b>	<b>49</b>	<b>36,363</b>	<b>37,272</b>
<b>Tug and scow:</b>									
5 feet and under .....	53	45,919	48,831	16	6,860	8,880	71	54,799	57,711
6 to 7 feet .....	6	5,492	5,492	16	8,590	9,023	10	14,082	14,515
8 " 9 "	128	121,631	123,172	148	148,556	151,840	276	270,187	275,012
10 " 11 "	9	10,786	10,859	15	17,939	18,547	24	28,725	29,406
12 " 13 "	1	912	912	1	912	912	2	1,824	1,824
14 " 15 "	2	1,895	1,695	-	-	-	2	1,695	1,695
16 " 17 "	4	13,116	13,116	-	-	-	4	13,116	13,116
18 " 19 "	8	24,921	25,332	-	-	-	8	24,921	25,332
<b>Totals</b> .....	<b>211</b>	<b>224,472</b>	<b>229,409</b>	<b>192</b>	<b>184,877</b>	<b>189,202</b>	<b>403</b>	<b>409,349</b>	<b>418,811</b>
<b>Tanker:</b>									
12 to 13 feet .....	1	2,053	2,814	-	-	-	1	2,053	2,814
14 " 15 "	30	36,656	51,832	30	37,770	52,849	80	74,426	104,681
16 " 17 "	42	63,656	99,142	67	101,307	158,397	109	164,963	257,539
18 " 19 "	16	18,782	32,495	31	36,469	63,243	47	55,251	95,738
20 " 21 "	3	6,406	9,300	33	101,619	159,675	38	108,225	168,975
22 " 23 "	-	-	-	11	31,386	46,214	11	31,386	46,214
24 " 25 "	-	-	-	2	3,102	5,329	2	3,102	5,329
26 " 27 "	-	-	-	8	19,536	26,936	8	19,536	26,936
<b>Totals</b> .....	<b>92</b>	<b>127,553</b>	<b>195,583</b>	<b>182</b>	<b>331,389</b>	<b>512,643</b>	<b>274</b>	<b>438,942</b>	<b>708,226</b>
<b>Tug or dredge:</b>									
5 feet and under .....	1	694	694	2	68	82	3	762	776
6 to 7 feet .....	50	2,550	2,561	53	2,757	2,779	103	5,307	5,340
10 " 11 "	60	5,708	9,007	69	7,020	10,288	129	12,728	19,295
12 " 13 "	23	7,353	7,636	21	6,210	6,874	44	13,563	14,510
14 " 15 "	4	2,866	3,533	6	4,300	5,422	10	7,166	8,955
<b>Totals</b> .....	<b>138</b>	<b>19,171</b>	<b>23,431</b>	<b>151</b>	<b>20,355</b>	<b>25,445</b>	<b>289</b>	<b>39,526</b>	<b>48,878</b>
<b>Other vessels:</b>									
5 feet and under .....	10	411	447	10	414	450	20	825	897
6 to 7 feet .....	6	553	680	2	104	104	8	657	784
10 " 11 "	2	248	675	-	-	-	2	248	675
12 " 13 "	4	553	1,378	4	553	1,379	8	1,106	2,757
14 " 17 "	2	1,312	3,346	1	626	1,673	3	1,938	5,019
<b>Totals</b> .....	<b>24</b>	<b>3,077</b>	<b>6,526</b>	<b>17</b>	<b>1,697</b>	<b>3,606</b>	<b>41</b>	<b>4,774</b>	<b>10,132</b>
<b>Grand totals</b> .....	<b>1,041</b>	<b>1,584,289</b>	<b>2,199,286</b>	<b>2,021</b>	<b>1,186,558</b>	<b>1,647,102</b>	<b>3,062</b>	<b>2,770,847</b>	<b>3,846,388</b>

**TABLE 37A. 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
<b>Ports between Sault Ste. Marie and Gulf of St. Lawrence:</b>									
Canada .....	320,100	77	320,177	3,577	—	3,577	323,677	77	323,754
United States .....	22,205	479	22,684	42,117	—	42,117	64,322	479	64,801
<b>Totals</b> .....	<b>342,305</b>	<b>556</b>	<b>342,861</b>	<b>45,694</b>	—	<b>45,694</b>	<b>387,999</b>	<b>556</b>	<b>388,555</b>
<b>Ports outside the Gulf of St. Lawrence:</b>									
United Kingdom .....	—	14	14	—	422	422	—	436	436
Belgium .....	—	272	272	—	1,044	1,044	—	1,316	1,316
Netherlands .....	—	64	64	—	203	203	—	267	267
<b>Totals</b> .....	<b>—</b>	<b>350</b>	<b>350</b>	—	<b>1,669</b>	<b>1,669</b>	—	<b>2,019</b>	<b>2,019</b>
<b>Grand totals – Upbound</b> .....	<b>342,305</b>	<b>906</b>	<b>343,211</b>	<b>45,694</b>	<b>1,669</b>	<b>47,363</b>	<b>387,999</b>	<b>2,575</b>	<b>390,574</b>

**TABLE 37B. 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
<b>Ports between Sault Ste. Marie and Gulf of St. Lawrence:</b>									
Canada .....	326,736	1,495	328,231	2,973	—	2,973	329,709	1,495	331,204
United States .....	116,588	83,240	199,828	41,911	—	41,911	158,499	63,240	241,739
<b>Totals</b> .....	<b>443,324</b>	<b>84,735</b>	<b>528,059</b>	<b>44,884</b>	—	<b>44,884</b>	<b>488,208</b>	<b>84,735</b>	<b>572,943</b>
<b>Ports outside the Gulf of St. Lawrence:</b>									
United Kingdom .....	—	—	—	—	7	7	—	7	7
Belgium .....	—	3	3	—	357	357	—	360	360
Netherlands .....	782	1	783	—	1,251	1,251	782	1,252	2,034
Middle East .....	—	—	—	719	—	719	719	—	719
<b>Totals</b> .....	<b>782</b>	<b>4</b>	<b>786</b>	<b>719</b>	<b>1,615</b>	<b>2,334</b>	<b>1,501</b>	<b>1,619</b>	<b>3,120</b>
<b>Grand totals – Downbound</b> .....	<b>444,106</b>	<b>84,739</b>	<b>528,845</b>	<b>45,603</b>	<b>1,615</b>	<b>47,218</b>	<b>489,709</b>	<b>86,354</b>	<b>576,063</b>

**TABLE 38A. 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 .....	343,482	556	344,038
	United States .....	44,517	—	44,517
	<b>Totals</b> .....	<b>387,999</b>	<b>556</b>	<b>388,555</b>
Ports outside the Gulf of St. Lawrence .....	Germany .....	—	2,019	2,019
	<b>Grand totals – Upbound</b> .....	<b>387,999</b>	<b>2,575</b>	<b>390,574</b>

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

Unloaded at	Registry of vessel	Cargo tons		
		Bulk	General	Total
Ports between Sault Ste. Marie and Gulf of St. Lawrence .....	Canada .....	445,497	84,735	530,232
	United States .....	42,711	—	42,711
	Totals .....	488,208	84,735	572,943
Ports outside the Gulf of St. Lawrence .....	Canada .....	719	—	719
	United States .....	782	1,619	2,401
	Totals .....	1,501	1,619	3,120
Grand totals - Downbound .....		489,709	86,354	576,063

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						Average cargo tons per vessel	
	Number of vessels			Cargo tons			In ballast	With cargo	Total	Bulk	General	Total		
	In ballast	With cargo	Total	Bulk	General	Total								
Small vessel:														
Under 1,000 gross tons ....	40	21	61	3,030	—	3,030	144.3	1,205	2	1,207	1,501	—	1,501	
1,000 to 1,999 .....	66	13	79	13,899	1,938	15,837	1,218.2	2	56	98,866	15,012	113,878	2,108.2	
2,000 " 2,999 .....	57	13	70	13,790	545	14,335	1,102.7	8	44	52	112,087	6,364	118,451	2,692.1
3,000 " 3,999 .....	154	61	215	52,338	77	52,415	859.3	8	91	99	83,544	63,012	146,556	1,610.5
4,000 " 4,999 .....	38	27	65	40,237	15	40,252	1,490.8	7	18	25	23,887	1,211	25,098	1,394.3
5,000 " 5,999 .....	14	8	22	19,371	—	19,371	2,421.4	4	4	8	4,079	755	4,834	1,208.5
6,000 " 6,999 .....	29	—	29	—	—	—	—	6	6	—	—	—	—	—
7,000 " 7,999 .....	9	—	9	—	—	—	—	3	3	—	—	—	—	—
Totals .....	407	143	550	143,665	2,575	145,240	1,015.7	1,243	213	1,456	323,964	86,354	410,318	1,926.4
Barge or scow:														
Under 1,000 gross tons ....	14	—	14	—	—	—	—	5	8	13	4,700	—	4,700	587.5
1,000 to 1,999 .....	12	—	12	—	—	—	—	—	10	10	8,072	—	8,072	807.2
Totals .....	26	—	26	—	—	—	—	5	18	23	12,772	—	12,772	709.6
Tug and scow:														
Under 1,000 gross tons ....	101	—	101	—	—	—	—	44	51	95	26,970	—	26,970	528.8
1,000 to 1,999 .....	92	5	97	3,976	—	3,976	795.2	8	89	97	66,730	—	66,730	748.8
2,000 " 2,999 .....	4	—	4	—	—	—	—	—	—	—	—	—	—	—
3,000 " 3,999 .....	9	—	9	—	—	—	—	—	—	—	—	—	—	—
Totals .....	206	5	211	3,976	—	3,976	795.2	52	140	182	93,700	—	93,700	669.3
Tanker:														
Under 1,000 gross tons ....	10	32	42	68,688	—	88,686	2,771.5	40	11	51	23,071	—	23,071	2,097.4
1,000 to 1,999 .....	6	38	44	124,429	—	124,429	3,274.4	69	4	73	10,638	—	10,638	2,659.5
2,000 " 2,999 .....	—	5	5	22,051	—	22,051	4,410.2	11	6	17	25,584	—	25,584	4,260.7
3,000 " 3,999 .....	—	1	1	6,190	—	6,190	6,190.0	21	—	21	—	—	—	—
4,000 " 4,999 .....	—	—	—	—	—	—	—	20	—	20	—	—	—	—
5,000 " 5,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	16	76	92	241,358	—	241,358	3,175.8	161	21	182	59,273	—	59,273	2,822.5
Other vessels:														
Under 1,000 gross tons ....	159	—	159	—	—	—	—	166	—	166	—	—	—	—
1,000 to 1,999 .....	2	—	2	—	—	—	—	1	—	1	—	—	—	—
2,000 " 2,999 .....	1	—	1	—	—	—	—	—	—	—	—	—	—	—
3,000 " 3,999 .....	—	—	—	—	—	—	—	1	—	1	—	—	—	—
Totals .....	162	—	162	—	—	—	—	168	—	168	—	—	—	—
Grand totals .....	817	224	1,041	387,999	2,575	390,574	1,743.6	1,629	392	2,021	489,709	86,354	576,063	1,469.5

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, beverages, tobacco, n.e.s.	1,430	—	—	—	—	422	33	91	1,463	513	1,976
Crude materials, inedible:											
Logs and round timber	2,250	2,550	132	330	—	—	—	—	2,382	2,880	5,262
Pulpwood	1,876	—	—	—	—	—	—	—	1,876	—	1,876
Metal scrap	—	—	3,384	—	—	—	—	—	3,384	—	3,384
Coal, bituminous	—	—	12,478	—	—	—	—	—	12,478	—	12,478
Limestone	—	—	6,303	—	—	—	—	—	6,303	—	6,303
Salt	14,485	—	—	—	—	—	—	—	14,485	—	14,485
<b>Totals</b>	<b>18,611</b>	<b>2,550</b>	<b>22,297</b>	<b>330</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>40,908</b>	<b>2,880</b>	<b>43,788</b>
Fabricated materials, inedible:											
Woodpulp	—	1,027	—	—	—	—	—	—	—	1,027	1,027
Gasoline	67,648	—	—	4,511	—	—	—	—	67,648	4,511	72,159
Fuel oil	131,923	—	—	37,276	—	—	—	—	131,923	37,276	169,199
Structural shapes and sheet piling	1,466	—	—	—	—	—	—	181	1,466	181	1,647
Iron and steel, n.e.s.	107	—	372	—	—	—	244	911	723	911	1,634
Fabricated materials, inedible, n.e.s.	655	—	—	—	14	—	48	35	717	35	752
<b>Totals</b>	<b>201,799</b>	<b>1,027</b>	<b>372</b>	<b>41,787</b>	<b>14</b>	<b>—</b>	<b>292</b>	<b>1,127</b>	<b>202,477</b>	<b>43,941</b>	<b>246,418</b>
Miscellaneous freight, n.e.s.	579	—	15	—	—	—	11	29	605	29	634
Domestic package freight	97,758	—	—	—	—	—	—	—	97,758	—	97,758
<b>Grand totals — Upbound</b>	<b>320,177</b>	<b>3,577</b>	<b>22,684</b>	<b>42,117</b>	<b>14</b>	<b>422</b>	<b>336</b>	<b>1,247</b>	<b>343,211</b>	<b>47,363</b>	<b>390,574</b>

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:											
Milk powder	—	—	—	—	—	—	—	—	1,438	1,438	1,438
Barley	14,999	5,820	—	—	20,819	—	—	—	—	—	20,819
Oats	1,073	—	—	—	1,073	—	—	—	—	—	1,073
Rye	—	2,320	—	—	2,320	—	—	—	—	—	2,320
Wheat	10,394	—	—	—	10,394	—	—	—	—	—	10,394
Fodder and feed	53,627	—	—	—	53,627	2,973	—	—	—	2,973	56,600
Food, beverages and tobacco, n.e.s.	—	—	—	—	—	—	—	—	719	719	719
<b>Totals</b>	<b>80,093</b>	<b>8,140</b>	<b>—</b>	<b>—</b>	<b>88,233</b>	<b>2,973</b>	<b>—</b>	<b>—</b>	<b>2,157</b>	<b>5,130</b>	<b>93,363</b>
Crude materials, inedible:											
Pulpwood	2,358	—	—	—	2,358	—	—	—	—	—	2,358
Iron and steel scrap	2,380	2,400	—	—	4,780	—	—	—	—	—	4,780
Sand and gravel	107,072	—	—	—	107,072	—	—	—	—	—	107,072
Crude materials, inedible, n.e.s.	—	—	—	782	782	—	—	—	—	—	782
<b>Totals</b>	<b>111,810</b>	<b>2,400</b>	<b>—</b>	<b>782</b>	<b>114,992</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>114,992</b>
Fabricated materials, inedible:											
Woodpulp	—	104,370	—	—	104,370	—	—	—	—	—	104,370
Newspaper paper	—	62,769	—	—	62,769	—	—	—	—	—	62,769
Chemicals	8,926	—	—	—	8,926	—	—	—	—	—	8,926
Gasoline	—	—	—	—	—	37,564	—	—	37,564	—	37,564
Fuel oil	1,523	—	—	—	1,523	—	4,347	—	4,347	—	5,870
Tar, pitch and creosote	6,913	—	—	—	6,913	—	—	—	—	—	6,913
Pig iron	136	2,294	—	—	2,430	—	—	—	—	—	2,430
Iron and steel: ingot, billet, rod, etc.	15,035	—	—	—	15,035	—	—	—	—	—	15,035
Steel: plate, sheet and strip	41,629	11,123	—	—	52,752	—	—	—	—	—	52,752
Structural shapes and sheet piling	17,273	680	—	—	17,953	—	—	—	—	—	17,953
Fabricated materials, n.e.s.	1,054	58	—	4	1,116	—	—	7	170	177	1,293
<b>Totals</b>	<b>92,489</b>	<b>181,294</b>	<b>—</b>	<b>4</b>	<b>273,787</b>	<b>—</b>	<b>41,911</b>	<b>7</b>	<b>170</b>	<b>42,088</b>	<b>315,875</b>
Miscellaneous freight, n.e.s.	—	7,994	—	—	7,994	—	—	—	—	—	7,994
Domestic package freight	43,839	—	—	—	43,839	—	—	—	—	—	43,839
<b>Grand totals — Downbound</b>	<b>328,231</b>	<b>199,828</b>	<b>—</b>	<b>786</b>	<b>528,845</b>	<b>2,973</b>	<b>41,911</b>	<b>7</b>	<b>2,327</b>	<b>47,218</b>	<b>576,063</b>

## 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			Regis- tered net tons	Gross tons	Cargo tons	Number of pas- sengers	Number of vessels			Regis- tered net tons	Gross tons	Cargo tons	Number of pas- sengers
	In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel:														
Canada .....	203	102	305	200,264	318,042	41,042	—	110	260	370	233,269	369,975	350,166	—
United States .....	—	—	—	—	—	—	—	1	1	1	1,350	2,251	2,441	—
United Kingdom .....	2	3	5	2,990	5,821	425	—	1	3	4	2,438	4,803	2,440	—
Other countries .....	2	—	2	1,100	1,886	—	—	1	2	3	2,185	3,818	218	—
<b>Totals</b> .....	<b>207</b>	<b>105</b>	<b>312</b>	<b>204,354</b>	<b>325,749</b>	<b>41,467</b>	<b>—</b>	<b>112</b>	<b>266</b>	<b>378</b>	<b>239,242</b>	<b>380,847</b>	<b>355,265</b>	<b>—</b>
Scow or barge:														
Canada .....	3	—	3	604	604	—	—	2	—	2	258	258	—	—
United States .....	—	—	—	—	—	—	—	1	—	1	755	755	—	—
<b>Totals</b> .....	<b>3</b>	<b>—</b>	<b>3</b>	<b>604</b>	<b>604</b>	<b>—</b>	<b>—</b>	<b>3</b>	<b>—</b>	<b>3</b>	<b>1,013</b>	<b>1,013</b>	<b>—</b>	<b>—</b>
Tanker:														
Canada .....	12	—	12	13,402	21,260	—	—	6	—	6	6,814	9,454	—	—
Tug or dredge:														
Canada .....	96	—	96	6,319	8,098	—	—	83	—	83	8,541	9,986	—	—
United States .....	—	—	—	—	—	—	—	2	—	2	426	426	—	—
<b>Totals</b> .....	<b>96</b>	<b>—</b>	<b>96</b>	<b>6,319</b>	<b>8,098</b>	<b>—</b>	<b>—</b>	<b>85</b>	<b>—</b>	<b>85</b>	<b>8,967</b>	<b>10,412</b>	<b>—</b>	<b>—</b>
Tug and Scow:														
Canada .....	35	39	74	35,146	37,837	9,010	—	65	9	74	23,550	25,929	799	—
United States .....	1	—	1	968	968	—	—	—	—	—	—	—	—	—
<b>Totals</b> .....	<b>36</b>	<b>39</b>	<b>75</b>	<b>36,114</b>	<b>38,805</b>	<b>9,010</b>	<b>—</b>	<b>85</b>	<b>9</b>	<b>74</b>	<b>23,350</b>	<b>25,929</b>	<b>799</b>	<b>—</b>
Other vessels:														
Canada .....	47	2	49	10,752	14,722	585	—	33	1	34	10,817	16,343	67	—
Other countries .....	—	—	—	—	—	—	—	2	—	2	52	78	—	—
<b>Totals</b> .....	<b>47</b>	<b>2</b>	<b>49</b>	<b>10,752</b>	<b>14,722</b>	<b>585</b>	<b>—</b>	<b>35</b>	<b>1</b>	<b>36</b>	<b>10,869</b>	<b>16,421</b>	<b>67</b>	<b>—</b>
<b>Grand totals</b> .....	<b>401</b>	<b>146</b>	<b>547</b>	<b>271,545</b>	<b>409,238</b>	<b>51,062</b>	<b>—</b>	<b>306</b>	<b>276</b>	<b>582</b>	<b>290,455</b>	<b>444,076</b>	<b>356,131</b>	<b>—</b>
Non-toll traffic included .....	305	143	448	128,280	191,894	40,617	—	304	169	473	129,184	198,939	45,957	—

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	Regis- tered net tons	Gross tons	Number of vessels	Regis- tered net tons	Gross tons	Number of vessels	Regis- tered net tons	Gross tons	Number of vessels	Regis- tered net tons	Gross tons
<b>Upbound</b>												
Canada to Canada:												
Canada .....	52	58,725	91,371	361	99,059	158,591	77	35,750	38,441	490	193,534	288,403
United Kingdom .....	—	—	—	5	2,990	5,821	—	—	—	5	2,990	5,821
Canada to United States:												
Canada .....	18	23,796	39,729	31	49,157	72,431	—	—	—	49	72,953	112,160
United States .....	—	—	—	—	—	—	1	968	968	1	968	968
Other countries to Canada:												
Other countries .....	—	—	—	2	1,100	1,886	—	—	—	2	1,100	1,886
<b>Totals</b> .....	<b>70</b>	<b>82,521</b>	<b>131,100</b>	<b>399</b>	<b>152,306</b>	<b>238,729</b>	<b>78</b>	<b>36,718</b>	<b>39,409</b>	<b>547</b>	<b>271,545</b>	<b>409,238</b>
<b>Downbound</b>												
Canada to Canada:												
Canada .....	45	52,853	83,043	378	107,812	170,897	76	23,808	26,187	499	184,473	280,127
United States .....	1	1,350	2,251	—	—	—	—	—	—	1	1,350	2,251
United Kingdom .....	—	—	—	4	2,438	4,803	—	—	—	4	2,438	4,803
Other countries .....	—	—	—	2	52	78	—	—	—	2	52	78
Canada to United States:												
Canada .....	—	—	—	3	581	735	—	—	—	3	581	735
Canada to other countries:												
Other countries .....	—	—	—	3	2,165	3,818	—	—	—	3	2,185	3,818
United States to Canada:												
Canada .....	24	31,740	52,986	43	66,455	98,097	—	—	—	67	98,195	151,083
United States .....	—	—	—	2	426	426	1	755	755	3	1,181	1,181
<b>Totals</b> .....	<b>70</b>	<b>83,943</b>	<b>138,280</b>	<b>435</b>	<b>179,949</b>	<b>278,854</b>	<b>77</b>	<b>24,563</b>	<b>26,942</b>	<b>582</b>	<b>290,455</b>	<b>444,076</b>
<b>Grand totals</b> .....	<b>140</b>	<b>168,464</b>	<b>269,380</b>	<b>834</b>	<b>332,255</b>	<b>517,583</b>	<b>155</b>	<b>61,281</b>	<b>66,351</b>	<b>1,129</b>	<b>562,000</b>	<b>853,314</b>

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

Commodity	Canada to Canada		United States to Canada		Canada to other countries		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
tons								
Corn .....	—	5,776	—	—	—	—	—	5,776
Wheat .....	—	106,382	—	—	—	—	—	106,382
Flour .....	1,362	—	—	—	—	—	1,362	—
Soyabean oil cake and meal .....	2,172	511	—	—	—	—	2,172	511
Coal, bituminous .....	8,378	—	—	197,505	—	—	8,378	197,505
Sand, gravel and stone .....	3,136	127	—	—	—	—	3,136	127
Fluorspar .....	7,309	—	—	—	—	—	7,309	—
Waste and scrap materials .....	848	—	—	—	—	—	848	—
Wood fabricated materials .....	13,430	700	—	—	—	—	13,430	700
Petroleum and coal products .....	—	443	—	—	—	—	—	443
Iron and steel: ingot, rod, bar, etc. ....	—	456	—	—	—	—	—	456
Structural shapes and sheet piling .....	7,848	648	—	—	—	—	7,848	648
Rails and railway track materials .....	2,076	456	—	—	—	—	2,076	456
Machinery, equipment and parts .....	385	408	—	—	—	—	385	408
End products inedible, n.e.s. ....	133	—	—	—	—	—	133	—
Miscellaneous freight, n.e.s. ....	597	3,228	—	—	—	218	597	3,448
Domestic package freight .....	3,388	39,273	—	—	—	—	3,388	39,273
<b>Totals</b> .....	<b>51,062</b>	<b>158,408</b>	—	<b>197,505</b>	—	<b>218</b>	<b>51,062</b>	<b>356,131</b>
Non-toll traffic included in above .....	40,617	45,739	—	—	—	218	40,617	45,957
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			Regis- tered net tons	Gross tons	Cargo tons	Number of pas- sengers	Number of vessels			Regis- tered net tons	Gross tons	Cargo tons	Number of pas- sengers
	In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel:														
Canada .....	—	2	2	3,290	4,813	5,900	—	2	—	2	3,290	4,613	—	—
Other countries .....	—	5	5	3,332	6,882	8,345	—	5	—	5	3,332	6,728	—	—
<b>Totals</b> .....	—	7	7	6,622	11,295	14,245	—	7	—	7	6,622	11,341	—	—
Scow or barge:														
Canada .....	2	—	2	292	292	—	—	8	—	8	1,140	1,247	—	—
Tanker:														
Canada .....	—	22	22	26,790	43,778	55,123	—	20	—	20	24,399	39,580	—	—
Tug or dredge:														
Canada .....	11	—	11	295	1,041	—	—	32	—	32	1,892	2,955	—	—
Tug and scow:														
Canada .....	11	—	11	2,765	2,889	—	—	25	—	25	5,228	5,467	—	—
United States .....	—	5	5	6,403	6,403	13,048	—	3	—	3	4,084	4,084	—	—
<b>Totals</b> .....	11	5	16	9,168	9,292	13,048	—	28	—	28	9,312	9,551	—	—
Other vessels:														
Canada .....	19	—	19	2,424	5,057	—	—	73	—	73	4,849	7,327	—	—
Grand totals .....	43	34	77	45,591	70,755	82,416	—	168	—	168	48,214	72,001	—	—
Non-toll traffic included .....	41	—	41	5,684	9,155	—	—	133	—	133	12,402	16,289	—	—

TABLE 45. Number and Tonnage of Vessels Using the Cornwall Canal, by Origin and Destination, Registry and Rig

Origin and destination and registry of vessel	Steam			Motor			Other			Total		
	Number of vessels	Regis- tered net tons	Gross tons									
<b>Upbound</b>												
Canada to Canada:												
Canada .....	23	23,110	38,111	30	10,457	15,881	13	3,057	3,181	66	35,624	57,173
United States to Canada:												
Canada .....	1	232	497	—	—	—	—	—	—	1	232	497
United States .....	—	—	—	—	—	—	5	6,403	6,403	5	6,403	6,403
United Kingdom to Canada:												
Other countries .....	—	—	—	5	3,332	6,682	—	—	—	5	3,332	6,682
<b>Totals</b>	<b>24</b>	<b>22,342</b>	<b>38,608</b>	<b>35</b>	<b>13,789</b>	<b>22,563</b>	<b>18</b>	<b>9,460</b>	<b>9,584</b>	<b>77</b>	<b>45,591</b>	<b>70,755</b>
<b>Downbound</b>												
Canada to Canada:												
Canada .....	23	20,183	34,907	102	12,382	16,771	33	6,368	6,714	158	38,933	58,392
United States .....	—	—	—	—	—	—	1	1,242	1,242	1	1,242	1,242
Other countries .....	—	—	—	1	782	1,552	—	—	—	1	782	1,552
Canada to United States:												
Canada .....	1	232	497	1	1,633	2,300	—	—	—	2	1,865	2,797
United States .....	—	—	—	—	—	—	2	2,842	2,842	2	2,842	2,842
Canada to United Kingdom:												
Other countries .....	—	—	—	3	1,955	3,942	—	—	—	3	1,955	3,942
Canada to other countries:												
Other countries .....	—	—	—	1	595	1,234	—	—	—	1	595	1,234
<b>Totals</b>	<b>24</b>	<b>20,415</b>	<b>35,404</b>	<b>108</b>	<b>17,347</b>	<b>25,799</b>	<b>36</b>	<b>10,452</b>	<b>10,798</b>	<b>168</b>	<b>48,214</b>	<b>72,001</b>
<b>Grand totals</b>	<b>48</b>	<b>42,757</b>	<b>74,012</b>	<b>143</b>	<b>31,136</b>	<b>48,362</b>	<b>54</b>	<b>19,912</b>	<b>20,382</b>	<b>245</b>	<b>93,805</b>	<b>142,756</b>

TABLE 46. Commodities and Passengers Carried through the Cornwall Canal by Country of Loading and Unloading

TABLE 47 A. Cargo Tons Carried through the St. Lawrence and/or Welland Canals, Unloaded and Loaded at Canadian Ports<sup>1</sup>

Port	Unloaded			Loaded			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
Fort William - Port Arthur .....	340,245	40,596	380,841	10,148,978	15,648	10,164,626	10,489,223	56,244	10,545,467
Other Canadian Lake Superior ports .....	16,995	133	17,128	121,736	3,863	125,599	138,731	3,996	142,727
Canadian Lake Huron ports .....	70,887	94	70,981	185,382	6,473	191,855	256,269	6,567	262,836
Little Current .....	—	—	—	429	—	429	429	—	429
Other Georgian Bay ports .....	20,636	434	21,070	33,873	—	33,873	54,509	434	54,943
Sarnia .....	175,754	503	176,257	336,793	61,220	398,013	512,547	61,723	574,270
Windsor .....	164,083	320	164,403	64,171	5,756	69,927	228,254	6,076	234,330
Canadian St. Clair lake and river and Detroit river ports .....	16,416	—	16,416	171,098	—	171,098	187,514	—	187,514
Port Coitmore .....	130,923	—	130,923	1,268,448	121	1,268,569	1,399,371	121	1,399,492
Canadian Lake Erie ports .....	106,219	—	106,219	35,768	744	36,512	141,987	744	142,731
Thorold .....	537,396	7,603	544,999	42,823	133,655	176,478	580,219	141,258	721,477
Port Weller .....	82,970	93	83,063	—	—	—	82,970	93	83,063
Other Canadian Welland Canal ports .....	480,106	3,372	483,478	452,478	11,598	464,076	932,584	14,970	947,554
Hamilton .....	8,277,235	97,709	8,374,944	512,231	137,845	650,076	8,789,466	235,554	9,025,020
Port Credit .....	33,179	—	33,179	20,015	—	20,015	53,194	—	53,194
Toronto .....	4,705,566	351,913	5,057,479	510,909	90,549	601,458	5,216,475	442,462	5,658,937
Pierton .....	28,804	—	28,804	553,583	—	553,583	582,387	—	582,387
Kingston .....	298,943	—	298,943	181,832	—	181,832	480,775	—	480,775
Prescott .....	577,265	—	577,265	205,069	—	205,069	782,334	—	782,334
Cornwall .....	88,123	—	88,123	—	—	—	88,123	—	88,123
Other Canadian Lake Ontario ports and St. Lawrence river to Iroquois .....	602,830	7,854	610,684	427,807	679	428,486	1,030,637	8,533	1,039,170
Canadian St. Lawrence Canal ports .....	47,907	—	47,907	3,136	—	3,136	51,043	—	51,043
Lachine Canal <sup>1</sup> .....	443,231	—	443,231	155	—	155	443,386	—	443,386
Montreal .....	5,391,352	5,516	5,396,868	1,782,522	1,505	1,784,027	7,173,874	7,021	7,180,895
Contrecoeur .....	—	—	—	409,559	—	409,559	409,559	—	409,559
Sorel .....	958,130	—	958,130	168,449	—	168,449	1,126,579	—	1,126,579
Three Rivers .....	1,674,921	—	1,674,921	14,332	66,704	61,036	1,689,253	66,704	1,755,957
Sept Iles .....	62,464	65	62,529	6,929,519	—	6,929,519	6,991,983	65	6,992,048
Other Canadian St. Lawrence river ports East of Montreal .....	4,901,485	6,405	4,907,890	5,064,481	186,095	5,250,576	9,965,966	192,500	10,158,466
Halifax .....	222,644	—	222,644	20,840	—	20,840	243,484	—	243,484
Other Canadian Atlantic Coast and Gulf of St. Lawrence ports .....	31,688	1,793	33,481	455,465	92,507	547,972	487,153	94,300	581,453
<b>Totals</b> .....	<b>30,488,397</b>	<b>524,403</b>	<b>31,012,800</b>	<b>30,121,881</b>	<b>814,962</b>	<b>30,936,843</b>	<b>60,610,278</b>	<b>1,339,365</b>	<b>61,949,643</b>

<sup>1</sup> Non-toll traffic excluded.TABLE 47 B. Cargo Tons Carried through the St. Lawrence and/or Welland Canals, Unloaded and Loaded at United States Ports<sup>1</sup>

Port	Unloaded			Loaded			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
Duluth .....	8,750	35,697	44,447	2,324,075	104,412	2,428,487	2,332,825	140,109	2,472,934
Superior .....	—	1,036	1,036	1,423,752	2	1,423,754	1,423,752	1,038	1,424,790
Other United States Lake Superior ports .....	—	—	—	3,447,615	—	3,447,615	3,447,615	—	3,447,615
Chicago .....	655,102	860,686	1,515,788	3,091,555	248,094	3,339,649	3,746,657	1,108,780	4,855,437
Milwaukee .....	70,577	78,951	149,528	409,572	164,797	574,369	480,149	243,748	723,897
Other United States Lake Michigan ports .....	2,707,813	35,133	2,742,946	313,958	93,833	407,791	3,021,771	68,966	3,150,737
United States Lake Huron ports .....	47,790	5,132	52,922	295,489	52,134	347,623	343,279	57,266	400,545
Detroit .....	1,790,766	543,095	2,333,861	378,719	134,096	512,815	2,169,485	677,191	2,846,676
Other United States St. Clair lake and river and Detroit river ports .....	286,248	1,701	287,949	32,052	6,041	38,093	318,300	7,742	326,042
Ashtabula .....	1,580,739	42,521	1,623,768	2,850,768	5,026	2,855,794	4,431,507	47,547	4,479,054
Buffalo .....	1,626,771	23,866	1,650,637	199,023	3,197	202,220	1,825,794	27,063	1,852,857
Cleveland .....	3,752,196	269,172	4,021,368	180,446	64,118	224,564	3,912,642	333,290	4,245,932
Conneaut .....	1,155,225	—	1,155,225	866,987	—	866,987	2,022,212	—	2,022,212
Erie .....	71,628	1,978	73,606	196,591	6,271	202,862	268,219	8,249	276,468
Lackawanna .....	630,032	—	630,032	—	—	—	630,032	—	630,032
Lorain .....	242,044	—	242,044	5,701	5	5,701	247,745	—	247,745
Sandusky .....	—	—	—	258,901	5	258,906	258,901	5	258,906
Toledo .....	132,465	96,171	228,636	2,792,787	49,615	2,842,402	2,925,252	145,786	3,071,038
Other United States Lake Erie ports .....	333,821	—	333,821	1,214,699	—	1,214,699	1,548,520	—	1,548,520
Oswego .....	169,904	79	169,983	25,546	1,206	26,752	195,450	1,285	196,735
Rochester .....	—	13,654	13,654	1,285	4,436	5,721	1,285	18,090	19,375
Other United States Lake Ontario and St. Lawrence river to Ogdensburg .....	201,230	2,532	203,762	31,055	8,384	39,439	232,285	10,916	243,201
United States St. Lawrence canal ports .....	164,434	—	164,434	19,632	—	19,632	184,066	—	184,066
United States Atlantic and Gulf of Mexico ports .....	182,840	10,588	193,428	372,779	6,064	378,843	555,619	16,652	572,271
United States Hudson river ports .....	62,454	—	62,454	38,430	—	38,430	100,884	—	100,884
United States Pacific Coast ports .....	—	—	—	10	8,543	8,553	10	8,543	8,553
<b>Totals</b> .....	<b>15,872,829</b>	<b>2,021,992</b>	<b>17,894,821</b>	<b>20,751,427</b>	<b>960,274</b>	<b>21,711,701</b>	<b>36,624,256</b>	<b>2,982,266</b>	<b>39,606,522</b>
<b>Grand totals</b> .....	<b>46,361,226</b>	<b>2,546,395</b>	<b>48,907,621</b>	<b>50,873,308</b>	<b>1,775,236</b>	<b>52,648,544</b>	<b>97,238,534</b>	<b>4,321,631</b>	<b>101,556,165</b>

<sup>1</sup> 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
<b>In Canada:</b>									
Port William - Port Arthur	198,286	63	198,349	89,397	70,763	160,160	287,683	70,836	358,509
Other Canadian Lake Superior ports	122,862	493	123,355	293,160	13,972	307,132	416,022	14,465	430,487
Canadian Lake Huron ports	114,594	—	114,594	21,017	—	21,017	135,611	—	135,611
Other Georgian Bay ports	61,193	—	61,193	2,071	48	2,119	63,264	48	63,312
Sarnia	10,449	—	10,449	198,883	—	198,883	209,332	—	209,332
Windsor	58,956	872	59,828	32,490	—	32,490	91,446	872	92,318
Other Canadian St. Clair lake and river and Detroit river ports	602	—	602	4,847	—	4,847	5,449	—	5,449
Port Colborne	20,175	623	20,798	187	29	216	20,362	652	21,014
Other Canadian Lake Erie ports	—	—	—	2	—	2	2	—	2
<b>Totals</b>	<b>587,117</b>	<b>2,051</b>	<b>589,168</b>	<b>642,054</b>	<b>84,812</b>	<b>726,866</b>	<b>1,229,171</b>	<b>86,863</b>	<b>1,316,034</b>
<b>In United States:</b>									
Superior	—	—	—	41,911	—	41,911	41,911	—	41,911
Other United States Lake Superior ports	44,667	—	44,667	—	—	—	44,667	—	44,667
Chicago	5,483	27,713	33,196	38,272	—	38,272	43,755	27,713	71,468
Milwaukee	5,820	35,056	40,876	—	—	—	5,820	35,058	40,876
Other United States Lake Michigan ports	136,224	—	136,224	12,933	—	12,933	149,157	—	149,157
United States Lake Huron ports	8,572	2,477	11,049	3,521	—	3,521	12,093	2,477	14,570
Detroit	—	12,477	12,477	—	464	464	—	12,941	12,941
Cleveland	2,400	1,830	4,230	—	—	—	2,400	1,830	4,230
Toledo	—	3,687	3,687	9,596	15	9,611	9,596	3,702	13,298
<b>Totals</b>	<b>203,166</b>	<b>83,240</b>	<b>286,406</b>	<b>106,233</b>	<b>479</b>	<b>106,712</b>	<b>309,399</b>	<b>83,719</b>	<b>393,118</b>
<b>Grand totals</b>	<b>790,283</b>	<b>85,291</b>	<b>875,574</b>	<b>748,287</b>	<b>85,291</b>	<b>833,578</b>	<b>1,538,570</b>	<b>170,582</b>	<b>1,709,152</b>

TABLE 49. Traffic through the Canadian and United States Sault Ste. Marie Canals<sup>1</sup>

	Upbound			Downbound			Grand total 1964	Grand total 1963
	Canadian canal	United States Canal <sup>2</sup>	Total	Canadian canal	United States Canal <sup>2</sup>	Total		
Vessel passages	1,041	7,634	8,675	2,021	6,678	8,699	17,374	15,929
Passengers	6,017	123,651	129,668	125,379	14,055	139,434	269,102	272,663
<b>Cargo tons</b>								
Paper and woodpulp	1,027	—	1,027	167,139	128,001	295,140	296,167	292,588
Pulpwood, lumber and logs	7,138	—	7,138	2,358	146,995	149,353	156,491	158,499
Wheat	—	15,563	15,563	10,394	12,200,536	12,210,930	12,226,493	10,058,409
Barley	—	—	—	20,819	1,861,758	1,882,577	1,882,577	1,757,737
Oats	—	—	—	1,073	687,686	688,759	688,759	910,020
Corn	—	19,613	19,613	—	884,800	884,800	904,413	787,635
Rye	—	—	—	2,320	224,043	226,363	226,363	331,208
Flaxseed	—	—	—	—	487,719	487,719	487,719	334,271
Flour	—	1,141	1,141	—	84,731	84,731	85,872	91,750
Other grain and mill products	—	5,708	5,708	56,600	755,364	811,964	817,672	606,095
Iron ore	—	149,653	149,653	—	64,545,879	64,545,879	64,695,582	58,569,070
Manufactured iron and steel	3,281	212,897	216,178	85,740	162,722	253,462	469,640	568,302
Pig iron	—	—	—	2,430	99,009	101,439	101,439	191,236
Scrap iron	3,384	14,483	17,867	4,780	188,956	193,736	211,603	186,957
Sand, gravel and stone	6,303	1,558,999	1,565,302	107,072	1,000	108,072	1,673,374	1,504,877
Fuel oil	—	529,238	529,238	5,870	22,812	28,682	557,920	674,865
Other petroleum products	—	—	—	6,913	—	6,913	6,913	7,565
Gasoline	72,159	147,094	219,253	37,564	45,425	82,989	302,242	271,856
Cement	169,199	211,132	380,331	—	—	—	380,331	200,760
Coal, bituminous	12,476	7,295,797	7,308,275	—	—	—	7,308,275	7,377,649
Coal, anthracite	—	88,151	88,151	—	—	—	88,151	52,798
Coke	—	10,940	10,940	—	—	—	10,940	4,030
Salt	14,485	—	14,485	—	—	—	14,485	10,900
Autos, trucks and parts	—	3,310	3,310	—	151	151	3,461	2,892
Other freight	101,120	664,728	765,848	64,991	455,995	520,986	1,286,834	1,109,332
<b>Totals</b>	<b>390,574</b>	<b>10,928,447</b>	<b>11,319,021</b>	<b>576,063</b>	<b>82,988,582</b>	<b>83,561,645</b>	<b>94,883,666</b>	<b>86,061,301</b>

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

<sup>2</sup> 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 31.0 ft.  
(4) MacArthur Lock—Length 800 ft., width 80 ft., depth 31.0 ft.

TABLE 50. Cargo Tons Carried in Interlake Traffic<sup>1</sup>

From lake or area	To							Totals
	Lake Superior	Lake Michigan	Lake Huron	Lake Erie <sup>2</sup>	Lake Ontario <sup>3</sup>	St. Lawrence river	Beyond the Gulf of St. Lawrence <sup>4</sup>	
tons								
Lake Superior .....	..	20,092,293 <sup>5</sup>	2,360,366 <sup>5</sup>	43,539,673 <sup>5</sup>	5,591,483	8,685,676	3,261,314	85,530,805
Lake Michigan .....	1,410,531 <sup>5</sup>	...	..	..	681,525	1,689,027	1,868,975	..
Lake Huron .....	2,339,731 <sup>5</sup>	..	..	..	259,653	183,197	127,391	..
Lake Erie <sup>2</sup> .....	7,000,190 <sup>5</sup>	..	..	..	6,749,085	2,033,082	1,263,923	..
Lake Ontario <sup>3</sup> .....	308,109	131,959	75,588	1,112,284	..	942,614	694,265	3,264,819
St. Lawrence river .....	36,271	3,301,701	33,672	9,571,821	1,543,986	..	..	14,487,451
Beyond the Gulf of St. Lawrence <sup>4</sup> .....	97,247	969,302	10,847	1,209,388	1,557,704	50,001	..	3,894,489
<b>Totals</b> .....	<b>11,132,079</b>	..	..	..	<b>16,383,436</b>	<b>13,583,597</b>	<b>7,215,868</b>	..

<sup>1</sup> "Way" traffic on the St. Lawrence and Welland Ship Canals which originates and terminates within the same canal is excluded from this table.<sup>2</sup> Canadian data includes Canadian and United States Detroit river ports and Lake St. Clair and St. Clair river ports.<sup>3</sup> Canadian data includes Welland Ship Canal ports and St. Lawrence river ports to Iroquois.<sup>4</sup> Includes traffic using Lachine Canal only but excludes traffic moving via the New York State Barge Canal.<sup>5</sup> Data obtained from United States Corps of Engineers' preliminary report of "Interlake Traffic".TABLE 51. Cargoes Carried through St. Lawrence Seaway Canal Networks excluding Duplications<sup>1</sup>

Canal network	Corn	Wheat	Iron ore	Iron and steel scrap	Bituminous coal	Newsprint	Fuel oil	All other freight	1964 Total	1963 Total
tons										
Upbound:										
St. Lawrence and Ottawa .....	—	—	—	—	—	—	—	—	—	1,957
St. Lawrence only .....	—	4,782	20,367	17	408,769	13,437	1,236,767	1,272,736	2,956,875	2,863,218
St. Lawrence and Welland .....	—	3,360	24,188,868	1,306	4,208	655,824	476,320	5,857,658	31,187,544	10,680,607
St. Lawrence, Welland and Sault Ste. Marie <sup>2</sup> .....	—	—	—	—	—	—	—	72,609	72,609	8,923
Welland only .....	—	11,402	588,238	—	9,827	131,959	258,094	1,896,366	2,895,886	2,413,200
Welland and Sault Ste. Marie <sup>2</sup> .....	—	—	—	—	—	—	14,798	69,194	83,992	36,003
Sault Ste. Marie only <sup>2</sup> .....	—	—	—	—	12,478	—	161,800	150,097	324,375	155,265
<b>Totals</b> .....	<b>—</b>	<b>19,544</b>	<b>24,797,473</b>	<b>1,323</b>	<b>435,282</b>	<b>801,220</b>	<b>2,147,779</b>	<b>9,318,600</b>	<b>37,521,281</b>	<b>16,159,172</b>
Downbound:										
St. Lawrence only .....	8,182	441,749	—	128,241	27,900	2,817	14,075	899,551	1,522,515	1,784,017
St. Lawrence and Welland .....	6,633,940	17,523,032	35,504	641,880	768,326	25,726	141,392	12,674,129	38,443,929	15,606,404
St. Lawrence, Welland and Sault Ste. Marie <sup>2</sup> .....	—	—	—	—	—	—	—	93,954	93,954	63,573
Welland only .....	212,041	1,059,543	4,077,547	97,580	5,937,484	—	446,617	1,743,339	13,574,151	12,421,638
Welland and Sault Ste. Marie <sup>2</sup> .....	—	—	—	2,380	—	—	—	65,560	67,940	22,587
Sault Ste. Marie only <sup>2</sup> .....	—	10,394	—	2,400	—	62,769	5,870	427,770	509,203	521,893
<b>Totals</b> .....	<b>6,854,163</b>	<b>19,034,718</b>	<b>4,113,051</b>	<b>872,481</b>	<b>6,733,710</b>	<b>91,312</b>	<b>607,954</b>	<b>15,904,303</b>	<b>54,211,692</b>	<b>30,420,112</b>

<sup>1</sup> Includes traffic using Lachine Canal.<sup>2</sup> 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	Other
	number								
St. Lawrence section .....	16	509	—	2,606	111	154	127	3,269	
Welland section .....	6	781	—	1	2	154	8	936	
Sault Ste. Marie section .....	2,631	—	—	3,386	—	—	2,631	3,386	
<b>Totals</b> .....	<b>2,653</b>	<b>1,290</b>	—	<b>5,993</b>	<b>113</b>	<b>308</b>	<b>2,766</b>	<b>7,591</b>	
Downbound									
	Canada to			United States to			Total to		
	Canada	United States	Other countries	Canada	United States	Other countries	Canada	United States	Other countries
	number								
St. Lawrence section .....	29	6	—	516	2,753	—	545	2,759	—
Welland section .....	27	6	—	797	1	—	824	—	—
Sault Ste. Marie section .....	53,732	—	—	—	71,647	—	53,732	71,647	—
<b>Totals</b> .....	<b>53,788</b>	<b>12</b>	—	<b>1,313</b>	<b>74,401</b>	—	<b>55,101</b>	<b>74,413</b>	—

TABLE 53. Water Freight Charges on the Great Lakes for Wheat, 1964 and 1963

Port William - Port Arthur to	1964			1963		
	Average charge per bushel <sup>1</sup>	Average charge per ton	Average charge per ton-mile	Average charge per bushel <sup>1</sup>	Average charge per ton	Average charge per ton-mile
	cents	\$	cents	cents	\$	cents
Montreal:						
April .....	10.82	3.61	0.294	10.00	3.33	0.271
May .....	10.89	3.63	0.296	10.00	3.33	0.271
June .....	11.54	3.85	0.314	10.18	3.39	0.276
July .....	10.88	3.63	0.296	10.00	3.33	0.271
August .....	11.05	3.68	0.300	9.89	3.30	0.269
September .....	10.79	3.60	0.293	9.22	3.07	0.250
October .....	10.93	3.64	0.296	9.17	3.06	0.249
November .....	11.21	3.74	0.305	9.11	3.04	0.248
December .....	10.62	3.54	0.288	9.03	3.01	0.245
Averages.....	11.02	3.67	0.299	9.45	3.15	0.257
Winter storage .....	15.10	5.03	0.410	16.38	5.46	0.445
Goderich and Georgian Bay ports:						
April .....	4.50	1.50	0.279	4.27	1.42	0.264
May .....	4.55	1.52	0.283	4.30	1.46	0.272
June .....	4.55	1.52	0.283	4.03	1.34	0.250
July .....	4.52	1.51	0.281	4.03	1.34	0.250
August .....	4.52	1.51	0.281	4.06	1.35	0.251
September .....	4.52	1.51	0.281	4.13	1.38	0.257
October .....	4.52	1.51	0.281	4.11	1.37	0.255
November .....	4.58	1.53	0.284	4.07	1.36	0.253
December .....	5.05	1.68	0.312	5.00	1.67	0.310
Averages.....	4.55	1.52	0.283	4.26	1.42	0.264
Winter storage .....	9.39	3.13	0.582	9.42	3.14	0.584
Port Colborne:						
April .....	5.50	1.83	0.216	5.50	1.83	0.216
May .....	5.50	1.83	0.218	6.92	2.31	0.272
June .....	5.57	1.86	0.219	5.29	1.76	0.208
July .....	5.50	1.83	0.216	5.00	1.67	0.197
August .....	5.50	1.83	0.216	5.01	1.67	0.197
September .....	5.87	1.96	0.231	5.01	1.67	0.197
October .....	5.82	1.94	0.229	5.04	1.68	0.198
November .....	5.80	1.93	0.228	5.06	1.69	0.199
December .....	6.04	2.01	0.237	5.17	1.72	0.203
Averages.....	5.65	1.88	0.222	5.22	1.74	0.205
Winter storage .....	10.50	3.50	0.413	10.38	3.46	0.408
Buffalo:						
April .....	—	—	—	—	—	—
May .....	—	—	—	7.00	2.33	0.270
June .....	9.07	3.02	0.350	—	—	—
July .....	—	—	—	—	—	—
August .....	—	—	—	—	—	—
September .....	—	—	—	—	—	—
October .....	—	—	—	—	—	—
November .....	—	—	—	—	—	—
December .....	—	—	—	—	—	—
Averages.....	9.07	3.02	0.350	7.00	2.33	0.270
Winter storage .....	—	—	—	—	—	—
Port Colborne to Montreal:						
April .....	7.00	2.33	0.613	5.57	1.86	0.489
May .....	7.00	2.33	0.613	6.00	2.00	0.528
June .....	7.00	2.33	0.613	6.00	2.00	0.526
July .....	7.00	2.33	0.613	6.00	2.00	0.528
August .....	7.00	2.33	0.613	6.00	2.00	0.526
September .....	7.00	2.33	0.613	6.00	2.00	0.526
October .....	7.00	2.33	0.613	6.00	2.00	0.526
November .....	7.00	2.33	0.613	6.84	2.28	0.600
December .....	—	—	—	—	—	—
Averages.....	7.00	2.33	0.613	6.05	2.02	0.532

<sup>1</sup> 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, 1964

Fort William - Port Arthur to	Barley			Oats		
	Average charge per bushel <sup>1</sup>	Average charge per ton	Average charge per ton-mile	Average charge per bushel <sup>1</sup>	Average charge per ton	Average charge per ton-mile
	cents	\$	cents	cents	\$	cents
Montreal:						
April.....	11.52	4.80	0.391	10.16	5.98	0.487
May.....	11.53	4.80	0.391	10.24	6.02	0.490
June.....	11.73	4.89	0.398	10.12	5.95	0.485
July.....	12.06	5.03	0.410	10.42	6.13	0.499
August.....	11.80	4.92	0.401	10.21	6.01	0.489
September.....	11.44	4.77	0.388	10.10	5.94	0.484
October.....	11.90	4.96	0.404	10.32	6.07	0.494
November.....	12.25	5.10	0.415	10.50	6.18	0.503
December.....	11.25	4.69	0.382	10.00	5.88	0.479
Averages.....	11.74	4.89	0.398	10.28	6.05	0.493
Goderich and Georgian Bay ports:						
April.....	4.68	1.95	0.362	4.40	2.59	0.481
May.....	4.63	1.93	0.359	4.40	2.59	0.481
June.....	4.62	1.93	0.359	4.45	2.62	0.487
July.....	4.55	1.90	0.353	4.37	2.57	0.478
August.....	4.75	1.98	0.368	4.50	2.65	0.493
September.....	4.75	1.98	0.368	4.50	2.65	0.493
October.....	4.60	1.92	0.357	4.38	2.56	0.480
November.....	5.89	2.45	0.455	4.48	2.64	0.491
December.....	4.50	1.88	0.349	4.34	2.55	0.474
Averages.....	4.90	2.04	0.379	4.43	2.61	0.485
Port Colborne:						
April.....	—	—	—	—	—	—
May.....	—	—	—	—	—	—
June.....	6.25	2.60	0.307	6.00	3.53	0.416
July.....	—	—	—	—	—	—
August.....	6.25	2.60	0.307	6.00	3.53	0.416
September.....	—	—	—	—	—	—
October.....	6.25	2.60	0.307	8.00	3.53	0.416
November.....	—	—	—	6.00	3.53	0.416
December.....	—	—	—	—	—	—
Averages.....	6.25	2.60	0.307	6.00	3.53	0.416
Buffalo:						
April.....	—	—	—	—	—	—
May.....	6.00	3.33	0.386	—	—	—
June.....	—	—	—	—	—	—
July.....	6.00	3.33	0.386	—	—	—
August.....	—	—	—	—	—	—
September.....	8.00	3.33	0.386	—	—	—
October.....	—	—	—	—	—	—
November.....	8.50	3.54	0.411	—	—	—
December.....	—	—	—	—	—	—
Averages.....	8.20	3.42	0.397	—	—	—
Port Colborne to Montreal:						
April.....	—	—	—	—	—	—
May.....	—	—	—	—	—	—
June.....	—	—	—	—	—	—
July.....	—	—	—	—	—	—
August.....	—	—	—	—	—	—
September.....	—	—	—	—	—	—
October.....	—	—	—	—	—	—
November.....	—	—	—	—	—	—
December.....	—	—	—	—	—	—
Averages.....	—	—	—	—	—	—

<sup>1</sup> 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, 1964

Port William - Port Arthur to	Flax			Rye		
	Average charge per hushel <sup>1</sup>	Average charge per ton	Average charge per ton-mile	Average charge per hushel <sup>1</sup>	Average charge per ton	Average charge per ton-mile
	cents	\$	cents	cents	\$	cents
Montreal:						
April.....	-	-	-	-	-	-
May.....	-	-	-	-	-	-
June.....	-	-	-	-	-	-
July.....	-	-	-	-	-	-
August.....	-	-	-	-	-	-
September.....	-	-	-	-	-	-
October.....	-	-	-	-	-	-
November.....	-	-	-	-	-	-
December.....	-	-	-	-	-	-
Averages.....	-	-	-	-	-	-
Goderich and Georgian Bay ports:						
April.....	-	-	-	4.50	1.61	0.299
May.....	-	-	-	-	-	-
June.....	-	-	-	-	-	-
July.....	-	-	-	-	-	-
August.....	-	-	-	5.00	1.79	0.333
September.....	-	-	-	-	-	-
October.....	-	-	-	4.50	1.61	0.299
November.....	-	-	-	-	-	-
December.....	-	-	-	-	-	-
Averages.....	-	-	-	4.62	1.65	0.307
Port Colborne:						
April.....	-	-	-	-	-	-
May.....	-	-	-	-	-	-
June.....	-	-	-	-	-	-
July.....	-	-	-	-	-	-
August.....	-	-	-	-	-	-
September.....	-	-	-	-	-	-
October.....	-	-	-	-	-	-
November.....	-	-	-	-	-	-
December.....	-	-	-	-	-	-
Averages.....	-	-	-	-	-	-
Buffalo:						
April.....	-	-	-	-	-	-
May.....	-	-	-	-	-	-
June.....	-	-	-	-	-	-
July.....	-	-	-	-	-	-
August.....	-	-	-	-	-	-
September.....	-	-	-	7.75	2.77	0.321
October.....	-	-	-	7.75	2.77	0.321
November.....	-	-	-	-	-	-
December.....	-	-	-	-	-	-
Averages.....	-	-	-	7.75	2.77	0.321
Port Colborne to Montreal:						
April.....	-	-	-	-	-	-
May.....	-	-	-	-	-	-
June.....	-	-	-	-	-	-
July.....	-	-	-	-	-	-
August.....	-	-	-	-	-	-
September.....	-	-	-	-	-	-
October.....	-	-	-	-	-	-
November.....	-	-	-	-	-	-
December.....	-	-	-	-	-	-
Averages.....	-	-	-	-	-	-

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



**SECTION III**  
**OTHER CANADIAN CANALS**

## ST. PETER'S CANAL

TABLE 56. Location and Description

	From	To	Length of channel	Locks			
				Number	Minimum dimensions		
					Length	Width	
			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, 1955-64

	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Vessel transit—Up .....	373	209	244	198	198	275	273	238	185	188
Down .....	411	221	231	199	184	280	274	217	168	198
Totals .....	784	430	475	397	382	555	547	455	353	386
Registered net tons—Up .....	11,712	5,712	8,300	4,973	4,173	8,138	4,938	5,208	7,474	5,012
Down .....	15,612	5,232	6,938	5,091	4,377	7,693	5,745	4,949	4,423	3,926
Totals .....	27,324	10,944	15,238	10,064	8,550	15,831	10,683	10,157	11,897	8,938
Cargo tons—Up .....	1,901	727	1,389	883	262	142	861	271	214	142
Down .....	4,882	973	3,252	848	557	581	605	660	360	339
Totals .....	6,783	1,700	4,641	1,711	819	723	1,468	931	574	481
Season of navigation:										
First vessel passage .....	April 2	April 19	April 22	March 31	April 20	April 4	April 27	April 4	May 1	April 25
Last vessel passage .....	Jan. 12/56	Dec. 21	Dec. 28	Dec. 19	Dec. 31	Dec. 22	Dec. 16	Dec. 5	Dec. 12	Dec. 16

TABLE 58. Traffic on the St. Peter's Canal by Kind and Registry of Vessel, 1964

Kind of vessel and registry	Upbound							Downbound						
	Number of vessels			Regis- tered net tons	Gross tons	Cargo tons	Number of pas- sengers	Number of vessels			Regis- tered net tons	Gross tons	Cargo tons	Number of pas- sengers
	In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel:														
Canada .....	3	3	6	460	760	135	—	3	2	5	435	519	90	—
All other types:														
Canada .....	179	2	181	4,546	5,939	7	—	131	61	192	3,485	5,426	249	—
United States .....	1	—	1	6	6	—	—	—	—	—	—	—	—	—
United Kingdom .....	—	—	—	—	—	—	—	1	—	1	6	7	—	—
Totals .....	180	2	182	4,552	5,945	7	—	132	61	193	3,491	5,433	249	—
Grand totals .....	183	5	188	5,012	6,705	142	—	135	63	198	3,926	5,952	339	—

TABLE 59. Number and Tonnage of Vessels Using the St. Peter's Canal by Origin and Destination, Registry and Rig, 1964

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 .....	3	378	855	183	4,608	5,818	1	20	26	187	5,006	6,699
United States to Canada .....	United States .....	-	-	-	1	6	6	-	-	-	1	6	6
	Totals .....	3	378	855	184	4,614	5,824	1	20	26	188	5,012	6,705
Downbound: Canada to Canada .....	Canada .....	4	425	1,080	190	3,195	4,559	3	300	306	197	3,920	5,945
United Kingdom .....	-	-	-	-	1	6	7	-	-	-	1	6	7
	Totals .....	4	425	1,080	191	3,201	4,566	3	300	306	198	3,926	5,952
	Grand totals .....	7	803	1,935	375	7,815	10,390	4	320	332	386	8,938	12,657

TABLE 60. Commodities and Passengers Carried through the St. Peter's Canal by Country of Loading and Unloading, 1964

Commodity	Canada to Canada		Canada to United States		United States to Canada		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
	tons							
Fish and marine animals .....	7	297	-	-	-	-	7	297
Salt .....	110	-	-	-	-	-	110	-
Miscellaneous freight, n.e.s. .....	25	42	-	-	-	-	25	42
<b>Totals</b> .....	<b>142</b>	<b>339</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>142</b>	<b>339</b>

## CANSO CANAL

TABLE 61. Location and Description

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

TABLE 62. Historical Summary, 1957-64

	1957	1958	1959	1960	1961	1962	1963	1964
Vessel transit — Up .....	660	616	625	609	589	574	518	672
Down .....	611	626	621	619	591	565	562	695
<b>Totals</b> .....	<b>1,271</b>	<b>1,242</b>	<b>1,246</b>	<b>1,228</b>	<b>1,180</b>	<b>1,139</b>	<b>1,080</b>	<b>1,367</b>
Registered net tons — Up .....	224,920	274,703	346,793	374,478	346,282	488,870	543,378	580,851
Down .....	186,507	262,409	284,839	389,968	352,542	485,477	557,696	657,035
<b>Totals</b> .....	<b>411,427</b>	<b>537,112</b>	<b>631,632</b>	<b>764,446</b>	<b>698,824</b>	<b>974,347</b>	<b>1,101,072</b>	<b>1,237,886</b>
Cargo tons — Up .....	233,908	364,044	476,318	606,339	495,540	747,540	744,342	865,158
Down .....	161,887	162,562	198,188	197,037	206,857	363,112	460,194	480,124
<b>Totals</b> .....	<b>395,795</b>	<b>526,606</b>	<b>674,508</b>	<b>803,376</b>	<b>702,397</b>	<b>1,110,642</b>	<b>1,204,536</b>	<b>1,345,287</b>
Season of navigation:								
First vessel passage .....	Jan. 2	March 14	April 17	April 17	May 12	April 18	April 17	April 13
Last vessel passage .....	Dec. 31	Dec. 25	Dec. 31	Jan. 18/61	Dec. 31	Feb. 9/63	Dec. 27	Dec. 30

TABLE 63. Traffic on the Canso Canal by Kind and Registry of Vessel, 1964

Kind of vessel	Country of registry	Upbound							Downbound						
		Number of vessels			Regis- tered net tons	Gross tons	Cargo tons	Number of pas- sengers	Number of vessels			Regis- tered net tons	Gross tons	Cargo tons	Number of pas- sengers
		In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel .....	Canada .....	56	198	254	375,778	623,475	763,239	..	152	118	270	440,267	730,903	278,499	..
	United States .....	1	-	1	602	602	-	..	-	-	-	-	-	-	..
	United Kingdom .....	20	4	24	44,885	85,917	3,821	..	24	24	44,638	84,101	97,121	..	..
	Other countries .....	34	25	59	98,907	167,850	96,906	..	12	45	57	112,125	188,851	102,143	..
	Totals .....	111	227	338	520,172	877,844	863,966	..	164	187	351	597,030	1,003,855	477,763	..
All other types .....	Canada .....	309	16	325	56,086	100,220	1,192	..	302	27	329	52,489	110,780	1,826	..
	United States .....	8	-	8	4,140	4,512	-	..	9	5	14	5,366	8,118	540	..
	United Kingdom .....	1	-	1	453	1,180	-	..	1	-	1	2,150	2,650	-	..
	Totals .....	318	16	334	60,679	105,912	1,192	..	312	32	344	60,005	121,548	2,366	..
	Grand totals .....	429	243	672	580,851	983,756	865,158	..	476	219	695	657,035	1,125,403	480,129	..

TABLE 64. Number and Tonnage of Vessels Using the Canso Canal by Origin and Destination, Registry and Rig, 1964

Origin and destination	Country of registry	Steam			Motor			Other			Total		
		Number of vessels	Regis- tered net tons	Gross tons									
<b>Upbound:</b>													
Canada to Canada .....	Canada .....	77	137,891	221,716	468	280,395	483,261	25	6,089	6,132	570	424,375	711,109
	United States .....	-	-	-	2	3,300	3,300	-	-	-	2	3,300	3,300
	United Kingdom .....	6	9,579	19,083	1	2,459	4,462	-	-	-	7	12,038	23,545
	Other countries .....	3	8,452	14,879	23	32,541	52,959	-	-	-	26	40,993	67,888
Canada to United States .....	Other countries .....	2	6,158	10,905	-	-	-	-	-	-	2	6,158	10,905
Canada to other countries .....	Canada .....	-	-	-	1	360	856	-	-	-	1	360	856
United States to Canada .....	Canada .....	-	-	-	8	7,129	11,730	-	-	-	8	7,129	11,730
	United States .....	-	-	-	4	568	844	-	-	-	4	568	844
	United Kingdom .....	16	29,888	56,360	2	3,412	7,192	-	-	-	18	33,300	63,552
	Other countries .....	6	10,415	17,746	13	18,985	33,521	-	-	-	19	29,400	51,267
United States to United States .....	United States .....	-	-	-	2	272	368	1	602	602	3	874	970
Other countries to Canada .....	Other countries .....	1	6,897	11,379	10	11,065	19,289	-	-	-	11	17,962	30,668
Other countries to United States .....	Other countries .....	1	4,394	7,172	-	-	-	-	-	-	1	4,394	7,172
	Totals .....	112	213,674	359,240	534	360,486	617,782	26	6,691	6,734	672	580,851	983,756
<b>Downbound:</b>													
Canada to Canada .....	Canada .....	82	170,355	280,897	484	295,235	514,714	12	2,547	2,949	578	468,137	798,560
	United States .....	1	453	1,180	-	-	-	-	-	-	1	453	1,180
	United Kingdom .....	4	6,826	13,267	2	3,256	5,764	-	-	-	6	10,082	19,031
	Other countries .....	2	5,214	9,126	20	43,633	69,415	-	-	-	22	48,847	78,541
Canada to United States .....	Canada .....	4	6,510	12,631	16	15,949	27,134	-	-	-	20	22,459	39,765
	United States .....	-	-	-	7	2,442	3,136	-	-	-	7	2,442	3,136
	United Kingdom .....	17	30,752	58,424	1	2,150	2,650	-	-	-	18	32,902	61,074
	Other countries .....	4	11,596	20,199	6	9,112	15,164	-	-	-	10	20,708	35,363
Canada to United Kingdom .....	Other countries .....	-	-	-	3	7,002	12,032	-	-	-	3	7,002	12,032
Canada to other countries .....	Other countries .....	5	7,506	14,059	17	28,062	46,856	-	-	-	22	35,568	62,915
United States to Canada .....	Canada .....	-	-	-	1	2,160	3,358	-	-	-	1	2,160	3,358
United States to United States .....	United States .....	-	-	-	6	2,471	3,802	-	-	-	6	2,471	3,802
United Kingdom to Canada .....	United Kingdom .....	-	-	-	1	3,804	6,646	-	-	-	1	3,804	6,646
	Totals .....	119	239,212	409,783	564	415,276	712,671	12	2,547	2,949	695	657,035	1,125,403
	Grand totals .....	231	452,886	769,023	1,098	775,762	1,330,453	38	9,238	9,683	1,367	1,237,886	2,109,159

TABLE 65. Commodities and Passengers Carried through the Canso Canal by Country of Loading and Unloading, 1964

Commodity	Canada to Canada		Canada to United States		Canada to other countries		United States to Canada		Other countries to United States		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															
Live animals	—	162	—	—	—	800	—	—	—	—	—	—	—	962	
Fish and marine animals	569	4,354	—	6,902	51	—	—	—	—	—	—	—	620	11,256	
Barley	—	13,729	—	—	—	—	—	—	—	—	—	—	—	13,729	
Corn	—	—	—	—	—	—	—	—	—	—	—	—	—	4,638	
Oats	—	10,182	—	—	—	1,181	—	—	—	—	—	—	—	11,363	
Wheat	4,266	116,545	—	—	—	5,022	—	—	—	—	—	—	—	4,266 121,567	
Wheat flour	4,500	5,359	—	—	—	770	—	—	—	—	—	—	—	4,500 6,129	
Potatoes	—	—	—	6,504	—	2,534	—	—	—	—	—	—	—	9,038	
Soyabean oil cake and meal	—	—	—	—	—	2,240	—	—	—	—	—	—	—	2,240	
Fodder and feed	—	11,302	—	470	—	1,488	—	—	—	—	—	—	—	13,260	
Food, beverages and tobacco, n.e.s.	1,865	—	—	—	—	—	—	—	—	200	—	—	2,065	—	
Pulpwood	4,275	481	—	—	—	36,757	—	—	—	—	—	—	—	4,275 37,238	
Gypsum	118,618	—	—	—	—	—	—	—	—	—	—	—	—	118,618 —	
Phosphate rock	—	—	—	—	—	—	4,256	—	—	—	—	—	—	4,256 —	
Salt	180	3,132	—	83,738	—	—	—	—	—	—	—	—	—	180 86,870	
Sulphur	—	—	3,500	—	—	—	10,296	—	—	—	—	—	—	13,796 —	
Crude materials, inedible, n.e.s.	125	345	—	—	—	—	—	—	—	—	—	—	—	125 345	
Woodpulp	—	—	4,300	1,050	—	1,983	—	—	—	—	—	—	—	4,300 3,033	
Newsprint paper	—	5,120	—	37,472	—	—	—	—	—	—	—	—	—	—	42,592
Fertilizers	—	—	—	—	—	—	7,501	—	—	—	—	—	—	7,501 —	
Chemical products, n.e.s.	—	1,875	—	—	—	—	14,406	—	—	—	—	—	—	14,406 1,875	
Gasoline	220,216	10,487	—	—	—	—	—	—	—	—	—	—	—	220,216 10,467	
Fuel oil	433,901	20,650	—	—	—	—	—	—	—	17,735	—	—	—	451,636 20,650	
Petroleum and coal products, n.e.s.	—	1,321	—	—	—	—	—	—	—	—	—	—	—	—	1,321
Cement	—	62,143	—	—	—	—	—	—	—	—	—	—	—	—	62,143
Miscellaneous fabricated materials	—	113	—	975	—	—	—	—	—	—	252	—	—	252 1,088	
Miscellaneous freight	4,843	1,956	—	—	—	14,129	1,295	—	7,784	—	224	2,240	14,146	18,325	
<b>Totals</b>	<b>793,358</b>	<b>269,236</b>	<b>7,800</b>	<b>137,111</b>	<b>51</b>	<b>66,904</b>	<b>37,754</b>	<b>4,638</b>	<b>7,784</b>	<b>—</b>	<b>18,411</b>	<b>2,240</b>	<b>865,158</b>	<b>480,129</b>	

## RICHELIEU RIVER CANALS

TABLE 66. Location and Description

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

TABLE 67. Historical Summary, 1955-64

	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Vessel transits -- Up	354	401	379	343	415	395	370	359	387	325
Down	347	307	382	345	407	401	361	353	369	329
<b>Totals</b>	<b>701</b>	<b>708</b>	<b>761</b>	<b>688</b>	<b>822</b>	<b>796</b>	<b>731</b>	<b>712</b>	<b>756</b>	<b>654</b>
Registered net tons -- Up	50,241	56,166	61,634	54,390	60,918	62,036	56,038	52,684	51,181	60,069
Down	49,767	45,484	61,606	54,563	61,664	61,991	53,867	51,964	49,865	60,370
<b>Totals</b>	<b>100,008</b>	<b>101,630</b>	<b>123,240</b>	<b>108,953</b>	<b>122,582</b>	<b>124,027</b>	<b>109,905</b>	<b>104,648</b>	<b>101,046</b>	<b>120,439</b>
Cargo tons -- Up	70,681	76,613	85,429	81,557	78,758	81,364	80,822	80,925	82,212	85,746
Down	26,449	22,350	26,937	26,574	30,244	25,335	13,707	7,222	6,332	6,392
<b>Totals</b>	<b>97,130</b>	<b>98,963</b>	<b>112,366</b>	<b>108,131</b>	<b>109,002</b>	<b>106,699</b>	<b>94,528</b>	<b>88,147</b>	<b>68,544</b>	<b>92,138</b>
Season of navigation:										
First vessel passage	April 23	April 16	April 17	April 17	April 15	April 4	April 20	April 20	April 20	April 14
Last vessel passage	Dec. 1	Nov. 30	Dec. 1	Nov. 29	Dec. 5	Nov. 27	Dec. 2	Nov. 29	Dec. 1	Nov. 29

TABLE 68. Traffic on the Richelieu River Canal by Kind and Registry of Vessel, 1964

Kind of vessel	Country of registry	Upbound							Downbound						
		Number of vessels			Regis- tered net tons	Gross tons	Cargo tons	Number of pas- sengers	Number of vessels			Regis- tered net tons	Gross tons	Cargo tons	Number of pas- sengers
		In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo .....	Canada .....	37	235	272	58,513	67,235	85,746	..	210	60	270	57,806	66,347	6,392	..
	All other types ..	53	-	53	1,556	3,242	-	..	59	-	59	2,564	4,508	-	..
	Grand totals ...	90	235	325	60,069	70,477	85,746	..	269	60	329	60,370	70,855	6,392	..

TABLE 69. Number and Tonnage of Vessels Using the Richelieu River Canal by Origin and Destination, Registry and Rig, 1964

Origin and destination	Country of registry	Steam			Motor			Other			Total		
		Number of vessels	Regis- tered net tons	Gross tons									
Upbound:													
Canada to Canada .....	Canada .....	-	-	-	84	6,164	10,245	106	27,274	27,274	190	33,438	37,519
Canada to United States	Canada .....	-	-	-	135	26,631	32,958	-	-	-	135	26,631	32,958
	Totals .....	-	-	-	219	32,795	43,203	106	27,274	27,274	325	60,069	70,477
Downbound:													
Canada to Canada .....	Canada .....	-	-	-	83	6,098	9,944	110	27,729	27,795	193	33,827	37,739
United States to Canada	Canada .....	25	4,936	6,107	111	21,607	27,009	-	-	-	136	26,543	33,116
	Totals .....	25	4,936	6,107	194	27,705	36,953	110	27,729	27,795	329	60,370	70,855
	Grand totals .....	25	4,936	6,107	413	60,500	80,156	216	55,003	55,069	654	120,439	141,332

TABLE 70. Commodities and Passengers Carried through the Richelieu River Canal by Country of Loading and Unloading, 1964

Commodity	Canada to Canada			Canada to United States			United States to Canada			Total		
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
tons												
Newspaper .....	-	-	27,421	-	-	-	-	-	27,421	-		
Explosives .....	-	5,896	-	-	-	-	-	-	-	-	5,896	
Fertilizers .....	58,325	-	-	-	-	-	-	-	58,325	-		
Chemicals, n.e.s. ....	-	30	-	-	-	-	-	-	-	-	30	
Paper cores .....	-	-	-	-	-	-	-	3	-	-	3	
Miscellaneous freight .....	-	-	-	-	-	-	463	-	-	-	463	
<b>Totals .....</b>	<b>58,325</b>	<b>5,896</b>	<b>27,421</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>466</b>	<b>85,746</b>	<b>-</b>	<b>-</b>	<b>6,392</b>	

OTTAWA RIVER CANALS  
TABLE 71. Location and Description

			Length of channel	Locks			
				Number	Minimum dimensions		
					Length	Width	Depth
Ottawa River Canals:			miles		feet		
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, 1955-64

	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Vessel transits - Up .....	477	779	804	466	846	667	489	18	197	170
Down .....	475	779	806	462	821	683	486	18	186	171
<b>Totals</b> .....	<b>952</b>	<b>1,558</b>	<b>1,610</b>	<b>928</b>	<b>1,667</b>	<b>1,350</b>	<b>975</b>	<b>36</b>	<b>383</b>	<b>341</b>
Registered net tons - Up .....	117,699	166,152	209,889	116,191	201,781	181,979	120,679	2,578	15,720	10,642
Down .....	117,955	166,530	208,853	115,871	196,402	166,089	119,644	2,637	13,054	12,368
<b>Totals</b> .....	<b>235,654</b>	<b>332,682</b>	<b>416,742</b>	<b>232,062</b>	<b>398,183</b>	<b>328,068</b>	<b>240,323</b>	<b>5,213</b>	<b>28,774</b>	<b>23,010</b>
Cargo tons - Up .....	425	-	180	-	43	100	777	150	7,055	11,016
Down .....	206,100	283,500	356,460	189,980	327,600	278,100	196,200	150	976	1,665
<b>Totals</b> .....	<b>206,525</b>	<b>283,500</b>	<b>356,640</b>	<b>189,980</b>	<b>327,643</b>	<b>278,200</b>	<b>196,977</b>	<b>300</b>	<b>8,031</b>	<b>12,681</b>
Season of navigation:										
First vessel passage .....	April 26	April 25	April 17	April 23	May 2	May 3	April 24	April 15	April 24	April 30
Last vessel passage .....	Nov. 1	Nov. 23	Nov. 30	Nov. 26	Nov. 19	Nov. 19	Nov. 10	Nov. 16	Dec. 1	Nov. 17

TABLE 73. Traffic on the Ottawa River Canals by Kind and Registry of Vessel, 1964

Kind of vessel	Country of registry	Upbound							Downbound						
		Number of vessels			Regis- tered net tons	Gross tons	Cargo tons	Number of pas- sengers	Number of vessels			Regis- tered net tons	Gross tons	Cargo tons	Number of pas- sengers
		In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel .....	Canada .....	5	42	47	7,642	7,697	11,016	..	37	14	51	9,395	9,455	1,665	..
All other types .....	Canada .....	123	-	123	3,000	6,427	-	..	120	-	120	2,973	6,311	-	..
	<b>Grand totals</b> .....	<b>128</b>	<b>42</b>	<b>170</b>	<b>10,642</b>	<b>14,124</b>	<b>11,016</b>	..	<b>157</b>	<b>14</b>	<b>171</b>	<b>12,368</b>	<b>15,766</b>	<b>1,665</b>	..

TABLE 74. Number and Tonnage of Vessels Using the Ottawa River Canals by Origin and Destination, Registry and Rig, 1964

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 .....	124	3,276	6,746	46	7,366	7,378	170	10,642	14,124
Downbound: Canada to Canada .....	Canada .....	121	3,287	6,675	50	9,081	9,091	171	12,368	15,766
	Totals .....	245	6,563	13,421	96	16,447	16,469	341	23,010	29,890

TABLE 75. Commodities and Passengers Carried through the Ottawa River Canals by Country of Loading and Unloading, 1964

Commodity	Canada to Canada		Total	
	Upbound	Downbound	Upbound	Downbound
tons				
Structural shapes and sheet piling.....	10,921	2	10,921	2
Machinery, equipment and parts .....	95	1,663	95	1,663
<b>Totals</b> .....	<b>11,016</b>	<b>1,665</b>	<b>11,016</b>	<b>1,665</b>

## RIDEAU CANAL

TABLE 76. Location and Description

	From	To	Length of channel	Locks			
				Number	Minimum dimensions		
					Length	Width	Depth
Rideau Canal .....	Ottawa .....	Kingston .....	123.53	47	134	33	5.5
Rideau Lake .....	Rideau Lake .....	Perth (Tay Branch) .....	8.12	2	134	33	5.5

TABLE 77. Historical Summary 1955-64

	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Vessel transits - Up .....	72	64	149	32	32	39	35	36	38	10
Down .....	66	56	145	45	37	55	72	27	31	9
Totals .....	138	120	294	77	69	94	107	65	69	19
Registered net tons - Up .....	2,308	2,035	5,630	882	1,081	1,497	1,136	1,335	1,170	257
Down .....	2,180	2,006	5,587	1,515	1,262	1,629	1,740	973	1,528	343
Totals .....	4,488	4,041	11,217	2,397	2,343	3,126	2,876	2,308	2,698	600
Cargo tons - Up .....	248	205	154	37	53	72	-	-	-	-
Down .....	165	194	5,690	39	5	-	-	-	-	-
Totals .....	413	399	5,844	76	58	72	-	-	-	-
Season of navigation:										
First vessel passage .....	May 2	May 1	May 1	May 3	May 9	May 18	May 11	May 7	May 13	May 28
Last vessel passage .....	Nov. 21	Nov. 20	Nov. 18	Oct. 21	Nov. 2	Nov. 1	Nov. 4	Oct. 31	Oct. 18	Sept. 6

TABLE 78. Traffic on the Rideau Canal by Kind and Registry of Vessel, 1964

Kind of vessel	Country of registry	Upbound							Downbound						
		Number of vessels			Regis- tered net tons	Gross tons	Cargo tons	Number of pas- sengers	Number of vessels			Regis- tered net tons	Gross tons	Cargo tons	Number of pas- sengers
		In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel .....	Canada .....	2	—	2	75	90	—	..	1	—	1	106	106	—	..
All other types .....	Canada .....	8	—	8	182	259	—	..	8	—	8	237	252	—	..
	<b>Grand totals .....</b>	<b>10</b>	<b>—</b>	<b>10</b>	<b>257</b>	<b>349</b>	<b>—</b>	<b>..</b>	<b>9</b>	<b>—</b>	<b>9</b>	<b>343</b>	<b>358</b>	<b>—</b>	<b>..</b>

TABLE 79. Number and Tonnage of Vessels Using the Rideau Canal by Origin and Destination, Registry and Rig, 1964

Origin and destination	Country of registry	Steam			Motor			Other			Total		
		Number of vessels	Regis- tered net tons	Gross tons	Number of vessels	Regis- tered net tons	Gross tons	Number of vessels	Regis- tered net tons	Gross net	Number of vessels	Regis- tered net tons	Gross net
<b>Upbound:</b>													
Canada to Canada .....	Canada .....	—	—	—	8	182	259	2	75	90	10	257	349
<b>Downbound:</b>													
Canada to Canada .....	Canada .....	—	—	—	8	237	252	1	106	106	9	343	358
	<b>Totals .....</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>16</b>	<b>419</b>	<b>511</b>	<b>3</b>	<b>181</b>	<b>196</b>	<b>19</b>	<b>600</b>	<b>707</b>

TABLE 80. Commodities and Passengers Carried through the Rideau Canal by Country of Loading and Unloading, 1964

		Canada to Canada				Total			
		Upbound		Downbound		Upbound		Downbound	
		No.	..	..	..	..	..	..	..
Freight traffic .....		—	—	—	—	—	—	—	—
Passengers .....		No.	..	..	..	..	..	..	..

## MURRAY CANAL

TABLE 81. Location and Description

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

**TABLE 82.** Historical Summary 1955-64

TABLE 83. Traffic on the Murray Canal by Kind and Registry of Vessel, 1964

Kind of vessel and registry	Upbound							Downbound						
	Number of vessels			Regis- tered net tons	Gross tons	Cargo tons	Number of pas- sengers	Number of vessels			Regis- tered net tons	Gross tons	Cargo tons	Number of pas- sengers
	In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel: Canada .....	1	—	1	200	200	—	..	—	—	—	—	—	—	—
All other types: Canada .....	33	—	33	778	1,696	—	..	33	—	33	651	1,678	—	—
<b>Grand totals .....</b>	<b>34</b>	<b>—</b>	<b>34</b>	<b>978</b>	<b>1,896</b>	<b>—</b>	<b>..</b>	<b>33</b>	<b>—</b>	<b>33</b>	<b>651</b>	<b>1,678</b>	<b>—</b>	<b>..</b>

TABLE 84. Number and Tonnage of Vessels Using the Murray Canal by Origin and Destination, Registry and Rig 1964

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 .....	-	-	-	33	778	1,696	1	200	200	34	978	1,896
Downbound: Canada to Canada .....	Canada .....	-	-	-	32	635	1,622	-	-	-	32	635	1,622
Canada to United States .....	Canada .....	-	-	-	1	16	56	-	-	-	1	16	56
	<b>Totals .....</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>33</b>	<b>651</b>	<b>1,678</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>33</b>	<b>851</b>	<b>1,678</b>
	<b>Grand Totals .....</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>86</b>	<b>1,429</b>	<b>3,374</b>	<b>1</b>	<b>200</b>	<b>200</b>	<b>67</b>	<b>1,829</b>	<b>3,374</b>

TABLE 85. Commodities and Passengers Carried through the Murray Canal by Country of Loading and Unloading, 1964

Commodity	Canada to Canada		Canada to United States		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Freight traffic .....	—	—	—	—	—	—
Passengers .....	No.	..	..	..	..	..

## TRENT CANAL

TABLE 86. Location and Description

	From	To	Length of channel	Locks			
				Number	Minimum dimensions		
					Length	Width	
			miles	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 .....	Lindsay (Scugog Branch) .....	—	1	100	25	6
	Sturgeon Lake .....	Port Perry (Scugog Branch) .....	10.00	1	142	33	6
	Lindsay .....		25.00	—	—	—	4.5

TABLE 87. Historical Summary 1955-64

	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Vessel transits — Up .....	30	34	31	43	31	24	15	13	14	133
Down .....	36	47	41	45	37	23	22	16	17	138
Totals .....	66	81	72	88	68	47	37	29	31	271
Registered net tons — Up .....	455	544	480	631	499	318	178	143	163	1,744
Down .....	561	785	1,768	4,159	571	333	258	177	259	577
Totals .....	1,016	1,329	2,248	4,790	1,070	651	436	320	422	2,321
Cargo tons — Up .....	40	41	11	40	34	17	19	13	13	26
Down .....	62	248	63	35	49	47	55	58	49	38
Totals .....	102	289	74	75	83	64	74	71	62	64
Season of navigation:										
First vessel passage .....	May 11	May 25	May 16	May 12	May 15	June 10	May 17	May 15	May 16	May 19
Last vessel passage .....	Nov. 30	Nov. 30	Oct. 31	Oct. 31	Oct. 22	Nov. 23	Oct. 9	Oct. 11	Oct. 7	Sept. 18

TABLE 88. Traffic on the Trent Canal by Kind and Registry of Vessel, 1964

Kind of vessel	Country of registry	Upbound						Downbound					
		Number of vessels			Regis- tered net tons	Gross tons	Cargo tons	Number of pas- sengers	Number of vessels			Regis- tered net tons	Gross tons
		In ballast	With cargo	Total					In ballast	With cargo	Total		
Cargo vessel .....	Canada .....	55	12	67	1,478	2,223	26	..	63	9	72	319	483
All other types .....	Canada .....	66	—	66	266	389	—	..	66	—	66	258	367
	Grand totals .....	121	12	133	1,744	2,612	26	..	129	9	138	577	850

TABLE 89. Number and Tonnage of Vessels Using the Trent Canal by Origin and Destination, Registry and Rig, 1964

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
<b>Upbound:</b>									
Canada to Canada .....	Canada .....	131	1,722	2,568	2	22	44	133	1,744
<b>Downbound:</b>									
Canada to Canada .....	Canada .....	135	551	824	3	26	26	138	577
	Grand totals .....	266	2,273	3,392	5	48	70	271	3,462

TABLE 90. Commodities and Passengers Carried through the Trent Canal by Country of Loading and Unloading, 1964

Commodity	Canada to Canada				Total	
	Upbound	Downbound	Upbound	Downbound		
					tons	
Gasoline .....	11	20	11	20		
Fuel oil .....	15	18	15	18		
<b>Totals</b> .....	<b>26</b>	<b>38</b>	<b>26</b>	<b>38</b>		
Passengers .....	No.	...	..	..		

## ST. ANDREW'S CANAL

TABLE 91. Location and Description

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

TABLE 92. Historical Summary 1955-64

	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Vessel transits — Up .....	175	179	181	178	200	151	158	101	190	169
Down .....	178	180	181	178	198	150	167	101	191	164
<b>Totals</b> .....	<b>353</b>	<b>359</b>	<b>362</b>	<b>356</b>	<b>398</b>	<b>301</b>	<b>325</b>	<b>202</b>	<b>381</b>	<b>333</b>
Registered net tons — Up .....	19,289	15,317	13,950	12,486	12,251	8,296	10,581	5,525	8,681	7,392
Down .....	19,079	15,321	14,102	12,413	11,811	8,171	11,188	5,564	8,716	7,289
<b>Totals</b> .....	<b>38,368</b>	<b>30,638</b>	<b>28,052</b>	<b>24,899</b>	<b>24,062</b>	<b>16,467</b>	<b>21,769</b>	<b>11,089</b>	<b>17,397</b>	<b>14,681</b>
Cargo tons — Up .....	5,679	5,610	2,852	2,842	2,035	1,449	6,783	797	1,429	1,113
Down .....	2,433	2,472	2,617	2,028	1,898	2,650	1,503	1,494	2,385	1,894
<b>Totals</b> .....	<b>8,112</b>	<b>8,082</b>	<b>5,469</b>	<b>4,670</b>	<b>3,933</b>	<b>4,099</b>	<b>8,286</b>	<b>2,291</b>	<b>3,814</b>	<b>3,007</b>
Season of navigation:										
First vessel passage .....	June 30	June 28	May 20	May 13	May 14	June 4	May 21	July 11	May 20	May 29
Last vessel passage .....	Oct. 31	Nov. 2	Nov. 2	Oct. 31	Oct. 31	Nov. 1	Oct. 27	Nov. 3	Nov. 3	Nov. 2

TABLE 93. Traffic on the St. Andrew's Canal by Kind and Registry of Vessel, 1964

Kind of vessel and registry	Upbound							Downbound						
	Number of vessels			Regis-tered net tons	Gross tons	Cargo tons	Number of pas-sengers	Number of vessels			Regis-tered net tons	Gross tons	Cargo tons	Number of pas-sengers
	In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel:														
Canada .....	17	94	111	6,381	9,748	1,113	3	12	98	110	6,351	9,707	1,894	—
Pleasure craft:														
Canada .....	56	—	56	967	1,168	—	225	52	—	52	894	1,088	—	221
All other types:														
Canada .....	2	—	2	44	60	—	—	2	—	2	44	60	—	—
<b>Grand totals</b> .....	<b>75</b>	<b>94</b>	<b>169</b>	<b>7,392</b>	<b>10,976</b>	<b>1,113</b>	<b>228</b>	<b>66</b>	<b>98</b>	<b>164</b>	<b>7,289</b>	<b>10,853</b>	<b>1,894</b>	<b>211</b>

TABLE 94. Number and Tonnage of Vessels Using the St. Andrew's Canal by Origin and Destination, Registry and Rig, 1964

Origin and destination	Country of registry	Steam			Motor			Other			Total		
		Number of vessels	Regis-tered net tons	Gross tons	Number of vessels	Regis-tered net tons	Gross tons	Number of vessels	Regis-tered net tons	Gross tons	Number of vessels	Regis-tered net tons	Gross tons
<b>Upbound:</b>													
Canada to Canada .....	Canada .....	—	—	—	168	6,692	10,476	1	500	500	169	7,392	10,976
<b>Downbound:</b>													
Canada to Canada .....	Canada .....	1	42	84	162	6,747	10,269	1	500	500	164	7,289	10,853
	<b>Grand totals .....</b>	<b>1</b>	<b>42</b>	<b>84</b>	<b>330</b>	<b>13,639</b>	<b>20,745</b>	<b>2</b>	<b>1,000</b>	<b>1,000</b>	<b>333</b>	<b>14,681</b>	<b>21,829</b>

TABLE 95. Commodities and Passengers Carried through the St. Andrew's Canal by Country of Loading and Unloading, 1964

Commodity	Canada to Canada		Commodity	Canada to Canada	
	Upbound	Downbound		Upbound	Downbound
	tons			tons	
Fish and marine animals .....	995	—	Containers, returned empty .....	39	—
Food, feed, beverages and tobacco .....	3	417	Miscellaneous freight .....	68	82
Wood fabricated materials .....	4	450	Totals .....	1,113	1,894
Gasoline .....	4	885	Passengers .....	No.	228
Fuel oil .....	—	60			211

## APPENDIX

### List of Commodities

#### SECTION I. LIVE ANIMALS

Live animals

#### SECTION II. FOOD, FEED, BEVERAGES AND TOBACCO

##### Meat and Meat Preparations

Meat, fresh, chilled or frozen

Meat, cured

Meat and meat preparations, n.e.s.

##### Fish and Marine Animals

Fish, whole or dressed, fresh, chilled or frozen

Fish, smoked, salted, dried or cured

Fish, canned

Lobster

Fish and marine animals, n.e.s.

##### Dairy Produce - Eggs and Honey

Butter

Cheese

Milk powder

Dairy Produce, eggs and honey, n.e.s.

##### Grain, Flour, Meal and Cereal Preparations

Barley

Corn

Oats

Rye

Wheat

Cereals, unmilled n.e.s.

Corn meal

Corn starch

Malt

Flour, wheat

Cereals, milled n.e.s.

Bakery products

Other cereal products and farinaceous substances

##### Fruits and Fruit Preparations

Apples

Bananas

Fresh or chilled fruits and berries, n.e.s.

Dried or preserved fruits

Fruit juices and concentrates

Fruit pulp

Fruits and preparations, canned

Fruits and fruit preparations, n.e.s.

##### Nuts, Except Oil Nuts

Peanuts

Nuts, n.e.s.

##### Vegetables and Vegetable Preparations

Potatoes, n.e.s.

Vegetables, fresh or chilled, n.e.s.

Beans and peas, dried

Vegetable and vegetable preparations, n.e.s.

##### Sugar and Sugar Preparations

Sugar, raw

Sugar, n.e.s.

Molasses, crude

Molasses, refined

Syrup

Molasses and syrups, n.e.s.

Sugar preparations (including confectionery)

##### Cocoa, Coffee, Tea and Spices

Cocoa and chocolate

Coffee

Tea

Spices

Cocoa, Coffee, tea and spices, n.e.s.

##### Margarine, Shortening and Lard

Lard

Margarine, shortening and lard, n.e.s.

##### Miscellaneous Foods, Food Materials and Food Preparations

Sausage skins or casings

Foods, food materials and food preparations, n.e.s.

##### Fodder and Feed, Except Unmilled Cereals

Hay, forage and straw, n.e.s.

Hulls, screenings, chaff and scourings

Wheat bran, shorts and middlings

Grain feeds, n.e.s.

Cottonseed Oil cake and meal

Soyabean oil cake and meal

Oil seed cake and meal, n.e.s.

Brewers' and distillers' grains and solubles

Feeds of vegetable origin

Feeds of animal origin

Complete feeds and feed concentrates

##### Beverages

Non-alcoholic beverages

Ale, beer, stout and porter

Wines

Distilled alcoholic beverages

Beverages, n.e.s.

##### Tobacco

Cigarettes

Tobacco

Foods, feeds, beverages and tobacco, n.e.s.

#### SECTION III. CRUDE MATERIALS, INEDIBLE

##### Crude Animal Products, Inedible (Except Fibres)

Raw hides and skins

Crude animal products, inedible n.e.s.

## List of Commodities — Continued

**Crude Vegetable Products, Inedible Except Tobacco, Fibres and Wood**

- Seeds for sowing n.e.s.
- Flaxseed
- Mustard seed
- Rapeseed
- Soyabeans
- Oil seeds, oil nuts and oil kernels n.e.s.
- Nursery and greenhouse stock and related materials
- Rubber and allied gums natural
- Crude vegetable materials, inedible, n.e.s.

### Crude Wood Materials

- Logs and round timber
- Pulpwood
- Crude wood materials n.e.s.

### Textile and Related Fibres (Including Waste)

- Wool and fine animal hair n.e.s.
- Textile and related fibres n.e.s.

### Metals in Ores, Concentrates and Precipitates

- Aluminum ore and concentrates
- Copper ores, concentrates and matte
- Iron ore and concentrates
- Lead ore and concentrates
- Manganese ore and concentrates
- Nickel ores, concentrates and matte
- Zinc ore and concentrates
- Metallic ores and concentrates n.e.s.

### Scrap Metals and By-Products

- Iron and steel scrap
- Non-ferrous metal scrap
- Slags, drosses and other by-products

### Coal, Crude Petroleum and Related Crude Products

- Coal, Anthracite
- Coal, bituminous
- Petroleum, crude
- Natural asphalt (Gilsonite) and other crude bituminous substances
- Coal, crude petroleum and related crude products, n.e.s.

### Crude Non-Metallic Minerals (Except Coal and Petroleum)

- Asbestos, unmanufactured, crude and fibre
- Bentonite
- China clay
- Dolomite
- Clay and other crude refractory materials n.e.s.
- Sand and gravel
- Limestone
- Stone, crushed or broken
- Stone, crude n.e.s.
- Fluorspar
- Gypsum
- Phosphate rock
- Salt
- Sulphur
- Non-metallic minerals, crude n.e.s.

**Waste and Scrap Materials n.e.s.**

- Scrap rags
- Hogged fuel (wood)
- Waste and scrap materials n.e.s.

## SECTION IV. FABRICATED MATERIALS, INEDIBLE

- Leather
- Rubber fabricated materials

### Wood Fabricated Materials

- Lumber and timber
- Flooring
- Railway ties
- Shingles
- Lath
- Sawmill products n.e.s.
- Veneer and plywood
- Box, crate, and cooperage materials
- Wood fabricated materials n.e.s.

### Pulp

- Woodpulp

### Paper and Paperboard

- Newsprint paper
- Paper, n.e.s.
- Paperboard
- Building paper and prepared roofing materials
- Paper and paperboard, n.e.s.

### Textile fabricated materials

- Cordage, twine and rope
- Sacking materials
- Textile fabricated materials, n.e.s.

### Oils, Fats, Waxes, Extracts and Derivatives, Animal and Vegetable

- Animal oils and fats (exc. marine)
- Fish and marine animal oils
- Soyabean oil
- Vegetable oils and fats, n.e.s.
- Oils, fats, waxes, animal and vegetable, n.e.s.

### Chemicals and Related Products

- Sodium products, n.e.s.
- Inorganic Chemicals n.e.s.
- Glycol
- Chemicals n.e.s.
- Explosives
- Fertilizers and fertilizer materials, n.e.s.
- Synthetic and reclaimed rubber
- Plastic materials
- Industrial chemical specialties and explosives
- Chemical products n.e.s.

### Petroleum and Coal Products

- Gasoline
- Fuel oil
- Lubricating oils and greases
- Coke

## List of Commodities - Concluded

Asphalt  
Tar, pitch, and creosote  
Petroleum and coal products, n.e.s.

Cement and concrete basic products, n.e.s.  
Lime  
Non-metallic mineral basic products, n.e.s.

### Iron and Steel and Alloys

Ferro-alloys  
Pig iron  
Iron and steel: ingot, billet, bloom and slab  
Steel: bar and rod  
Steel: plate, sheet and strip  
Structural shapes and sheet piling  
Rails and railway track materials  
Iron and steel: pipes, tubes and fittings, n.e.s.  
Iron and steel: wire and wire rope  
Iron and steel n.e.s.

### Miscellaneous Fabricated Materials

Miscellaneous fabricated materials n.e.s.

## SECTION V. END PRODUCTS, INEDIBLE

### Machinery

Tractors  
Machinery, equipment and parts n.e.s.

### Transportation and Communication Equipment

Railway rolling stock  
Passenger automobiles and chassis  
Buses and chassis  
Trucks and chassis, truck tractors, commercial  
Military motor vehicles and trailers  
Motor vehicle parts n.e.s.  
Motor vehicles n.e.s.  
Miscellaneous vehicles and parts n.e.s.  
Rubber tires and tubes

### Other Equipment and Tools

Electric equipment, appliances and parts n.e.s.  
Miscellaneous equipment n.e.s.

### Personal and Household Goods

Personal and household goods n.e.s.

### Metal Fabricated Basic Products

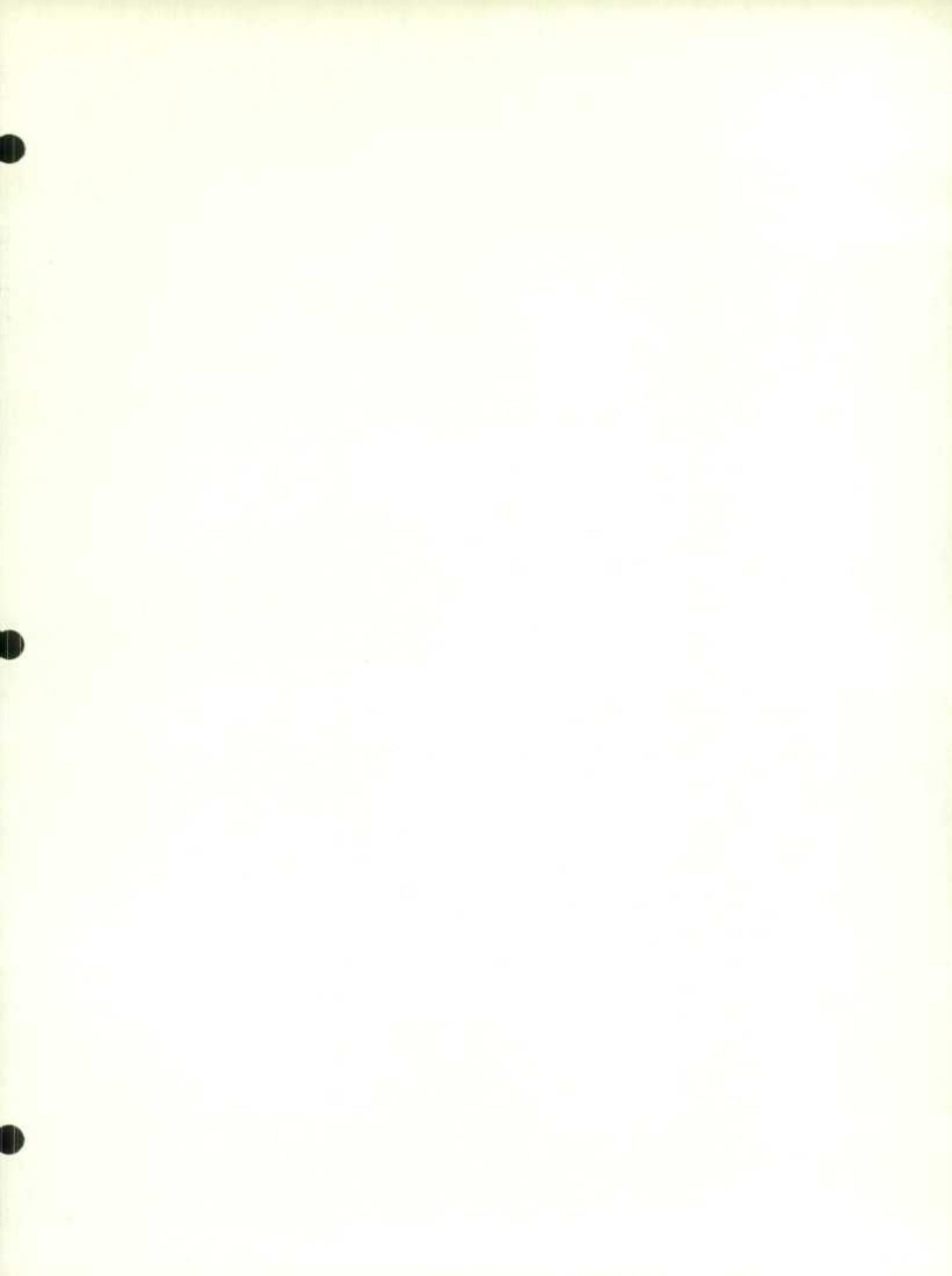
Metal fabricated basic products n.e.s.

### Non-Metallic Mineral Basic Products

Building bricks, clay  
Sewer pipes and drain tiles  
Glass: plate, sheet and structural  
Asbestos and asbestos-cement basic products  
Cement: natural and portland

### Miscellaneous

Firearms, weapons and ammunition  
Containers, returned empty  
Containers, closures and parts, n.e.s.  
Miscellaneous products n.e.s.  
Domestic package freight



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