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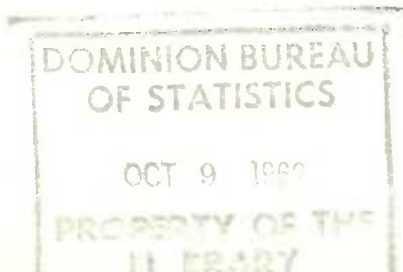
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CANADA

CANAL STATISTICS

1961



DOMINION BUREAU OF STATISTICS



DOMINION BUREAU OF STATISTICS
Public Finance and Transportation Division
Transportation Section

CANAL STATISTICS

1961

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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.

CANAL STATISTICS

1961

Source and Treatment of Data

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

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

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

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

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

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

Commencing in 1961, the description of commodities transported through Canadian canals was changed to conform with the revised "Standard Commodity Classification" produced by the Dominion Bureau of Statistics. Commodities listed in the annual report of Canal Statistics are those transported in largest volume, often in bulk form. The description of the majority of these commodities remains unchanged in the revised classification so that the effect of the changeover on continuity and comparability is considered to be relatively unimportant. Some changes, however, should be

noted. "Cereals milled, n.e.s." does not coincide exactly with the previous classification's "Other mill products" in that screenings and other feed items formerly included in mill products are now classed as "animal feeds." "Foods, feeds, beverages and tobacco" includes dairy produce, fruits and vegetables formerly included in "Other agricultural products" as well as lard and other packing house products formerly classed as "Packing house products." "Crude materials, inedible" includes all crude material not otherwise listed, of animal, vegetable or mineral origin. All items of significant size are shown separately.

For all Seaway canals, tables are presented for both vessel and cargo data which makes a division between traffic to and from ports within the St. Lawrence-Great Lakes system and traffic to and from ports outside the Gulf of St. Lawrence. A considerable percentage of ocean traffic passing up the St. Lawrence canals in 1961 moved on through the Welland canal (see tables 7 and 20). It should be noted, however, that Welland traffic to and from outside points includes vessels entering or leaving Lake Ontario via the New York State Barge Canal.

Tables 2-46 deal with the Seaway Canals. Non-toll traffic using only the Cornwall or Lachine Canals has been excluded from tables 4-14 covering the St. Lawrence section of the Seaway. This traffic is included in Table 3, the historical summary of St. Lawrence canals, and in Tables 41-46 which show all traffic using these two canals.

Seaway statistics of a general nature are furnished in tables 47-55. Table 47 shows cargo loaded and unloaded at Canadian and United States ports carried through the St. Lawrence and/or Welland canals by port of loading and unloading. Similar data for the Sault Ste. Marie Canal are presented in Table 48.

Review of 1961 Traffic

The volume of freight shipped through all Canadian Canals in 1961 increased by 8 per cent, rising to 57,222,696 tons from 52,946,883 in 1960. Freight traffic through the St. Lawrence canals was up almost 3 million tons, or 14 per cent, to 23,672,825 tons from 20,752,161 while freight through the Welland Canal increased 7 per cent to 31,404,370 tons from 29,280,737. The Canadian canal at Sault Ste. Marie recorded a decrease of 579,672 tons or 33.7 per cent, dropping to 1,140,950 tons from 1,720,622. Freight through the Canso canal also declined, down 12.5 per cent to 702,397 tons from 803,376. Of the other secondary canals, decreased traffic was recorded for the Ottawa River canal, down 81,223 tons to 196,977, and the Richelieu River canal, down 12,170 tons to 94,529.

The revision in the commodity classification has had little effect on the commodity tables, except in the grouping. For comparative purposes the tonnages shown for 1960 in Table 1 have been restated according to the new classification. Compared with

Table 50, "Cargo tons carried in Interlake Traffic", includes data from United States sources on the amount of traffic passing through the United States locks at Sault Ste. Marie indicating the amount of cargo shipped from Lake Superior to Lake Michigan, Lake Huron and Lake Erie and vice-versa. Data on traffic between Lake Michigan and Lake Huron and between Lake Huron and Lake Erie are not available because there are no canals connecting these lakes.

Table 51 "Cargo Carried through St. Lawrence Canal Networks excluding duplications", compares with Table 4 of the 1958 report and is an expansion of Table 2 as shown in 1954 and earlier annual reports. However, data on traffic through the United States locks at Sault Ste. Marie are not included so that this table is not entirely comparable with reports prior to 1955. Thus, traffic passing first through the United States Sault Ste. Marie Canal and then finally through the Welland Canal is now considered under Welland Canal only since for reporting and coding purposes the Bureau has no record of such traffic until it enters the Welland Canal. In other words, "canal networks" refers only to Canadian canal systems.

The water freight charges for grain shown in Tables 53, 54 and 55 are weighted averages. They include transportation charges and such trimming and other charges as are absorbed by the vessel operator. Where storage charges were made, they are shown separately. The trimming charges vary at different ports and are also affected by the overtime required to complete the job. Data on freight rates from Fort William-Port Arthur were provided by the Board of Grain Commissioners for Canada.

For each of the non-seaway canals, tables are presented showing location, a ten year traffic summary and analyses of the 1961 traffic. These tables compare with those of previous years.

1960, wheat shipments were up by 5.2 million tons, rising to 13,760,485 tons from 8,555,782, corn was up by almost 1 million tons to 3,406,392 tons from 2,429,451 while rye increased to 308,993 tons from 188,804. These gains were partially offset by decreases in barley and oats. Shipments of barley were down some 676,000 tons to 1,610,403 from 2,286,339 while oats declined 450,000 tons to 628,225 tons from 1,078,535. Grain shipments through all canals totalled 19,714,498 tons and accounted for 34.5 per cent of total traffic. This compares with a grain movement of 14,538,911 tons in 1960 representing 27.5 per cent of the total. Iron ore which accounted for 19 per cent of total traffic was down 1.5 million tons to 10,770,618 tons from 12,238,282. Coal and fuel oil shipments showed little change at 5,499,938 and 2,437,684 tons respectively while the movement of scrap iron more than doubled, rising to 2,783,368 tons from 1,143,578. Pig iron also showed a gain, rising to 511,842 tons from 120,886. Shipments of sand, gravel and stone were down to 1,283,582 tons

from 1,788,005 and the movement of soyabeans which has been rising steadily over the past five years fell to 1,362,051 tons from 1,564,830. Domestic package freight remained almost unchanged at 1,265,425 tons.

The number of vessel passages dropped to 25,980 from 29,629 in the previous year, down 3,649 or 12 per cent. Although vessels of Canadian registry were down in number to 17,332 from 19,816, the registered net tonnage increased 12 per cent to 32,531,256 tons from 28,963,294. Vessels of United States registry dropped to 3,307 from 5,046 with registered net tonnage down 31 per cent to 2,515,262 from 3,660,931. The number of British vessels increased to 1,845 from 1,303 while the registered net tonnage rose 58 per cent to 6,294,753 tons from 3,971,587. Other foreign vessels showed little change at 3,496 compared with 3,464 but their registered net tonnage was up 6 per cent to 10,065,901 from 9,455,739 tons.

During 1961, Canadian vessels carried 37,425,954 tons or 65.4 per cent of all cargo passing through Canadian canals. Vessels of United States registry carried 2,357,751 tons or 4.1 per cent and United Kingdom vessels carried 6,820,750 tons or 11.9 per cent while other foreign vessels carried 10,618,241 tons or 18.6 per cent. The proportion of cargo carried in Canadian vessels showed little change, only 1.1 per cent above the previous year, and that carried in United States vessels declined 1.3 per cent while the proportion carried in vessels of the United Kingdom and other countries showed a slight rise to 30.5 per cent from 30.2 in 1960. In 1958, one year prior to the opening of the Seaway these proportions were as follows: Canadian vessels 86.5 per cent, United States vessels 7.4 per cent and United Kingdom and other countries, 6 per cent.

The number of vessel transits through the Seaway to and from outside points totalled 2,328 in 1961, little change from the previous year. However, the volume of freight carried to and from points outside the Gulf of St. Lawrence showed a slight decline to 7,756,485 tons from 7,809,686 in 1960. These figures exclude traffic using only the Lachine canal. Vessels of United Kingdom, Norwegian and German registry made up the largest single groups. Cargo carried up the Seaway from outside points was down 9 per cent to 1,846,641 tons from 2,279,061 in 1960, while downbound traffic to outside points

rose 7 per cent to 5,909,844 tons from 5,530,625. Of the total of 7.75 million tons, up and down, vessels of the United Kingdom or other Commonwealth countries carried 1,771,305 tons or 22.8 per cent. Vessels of Norwegian registry carried 1,225,331 tons or 15.8 per cent. German vessels carried 1,047,800 tons or 13.5 per cent and Liberian vessels carried 722,716 tons or 9.3 per cent. Details of this traffic between the St. Lawrence - Great Lakes system and outside points are presented in Tables 7, 11, 12, 20, 24, 25, 33, 37 and 38.

Traffic through the Canadian and United States canals at Sault Ste. Marie is shown in Table 49. With a drop of over 12 million tons in iron ore shipments, down to 55.9 from 67.9 million tons, freight transported through the combined system was down 11.7 per cent to 81,038,081 tons from 91,774,624 in 1960. Wheat shipments were up 2.6 million tons to 10,176,804 but barley and oats were down by 764,000 tons. Other grain and mill products declined to 245,047 tons from 563,274 and bituminous coal was down to 6,497,236 tons from 6,963,990. Other commodities showed only minor changes. The number of vessel passages dropped to 17,487 from 21,461 and passenger traffic through the combined system declined to 290,672 from 323,788.

Passenger traffic through all Canadian canals totalled 165,643 as against 183,862 in 1960. This was a decrease of 10 per cent and followed a decrease of 11.6 per cent in the previous year. Pleasure craft lockages continued an upward trend, rising to 142,054 from 128,591 in 1960.

In 1961 the opening dates of the three major canals were as follows: Sault Ste. Marie Canal, April 11 (April 4 in 1960), Welland Ship Canal, April 1 (April 1) and St. Lawrence Canal, April 15 (April 15). The Lachine section was open four days earlier. The Sault Ste. Marie Canal opened 7 days earlier, operating 246 days as against 253 in the previous year. The Welland Canal made no change, operating 259 days in both years, while the St. Lawrence Canals, opening 7 days earlier and closing 9 days later were in operation 246 days as compared with 230. The Canso Canal was in operation from May 12 to Dec. 31, a total operation of 234 days as against 285 in the previous season. Of the smaller canals, only the Trent, St. Andrews and Rideau remained in operation for a longer period than in 1960.

Charts

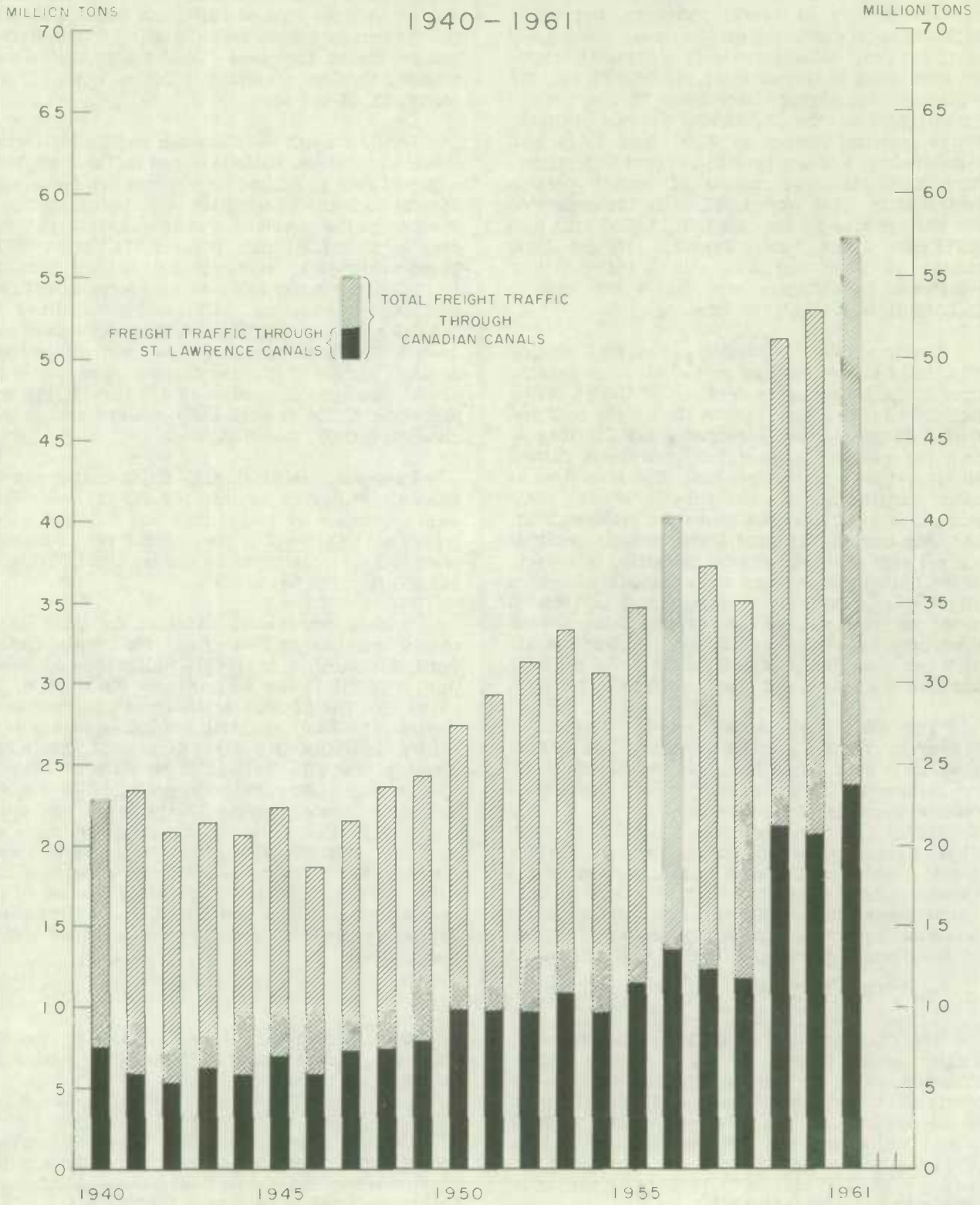
The chart on page 10 presents the volume of freight carried through the St. Lawrence Canals compared with the amount shipped through all canals over the period 1940 to 1961. Total traffic on all canals rose from 22.8 million tons in 1940 to 40.1 million in 1956. The total dropped in 1958 to 35.1 million tons but with the opening of the Seaway rose to 51 million in 1959, to 53 million in 1960 and to 57 million in 1961.

The quantity of shipments through the St. Lawrence Canals tends to follow the pattern of traffic for all canals.

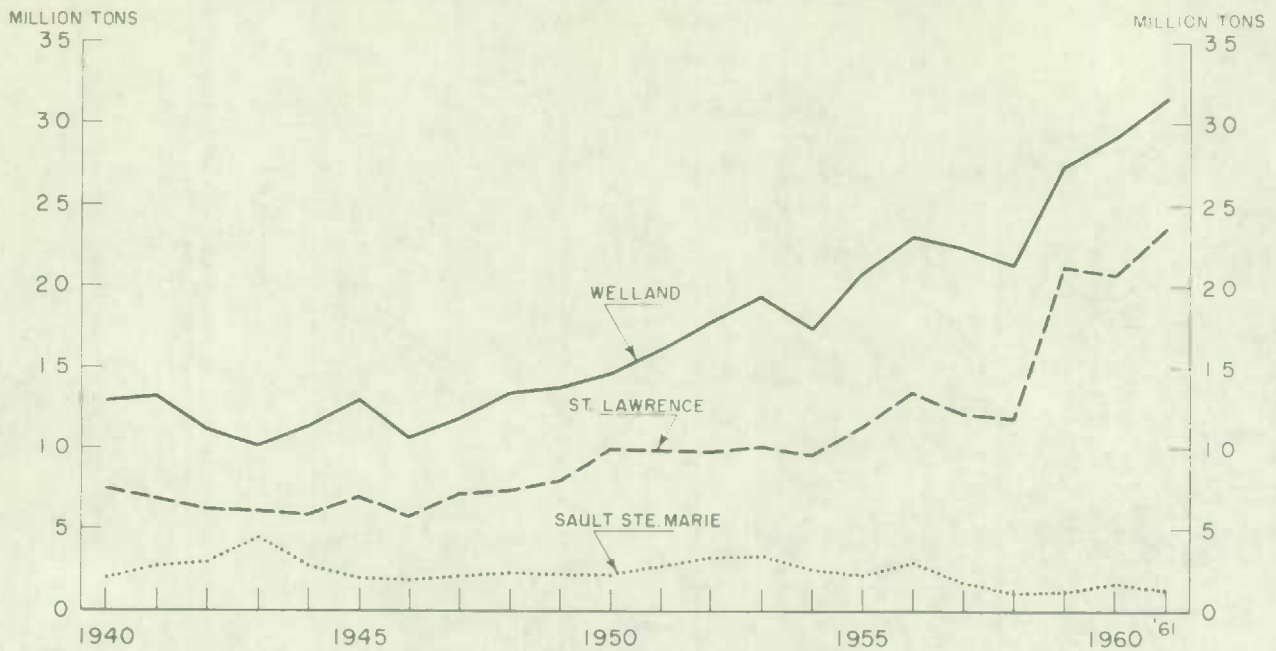
The two charts on page 11 show the trend of freight and vessel traffic through the three major canal systems, the Welland, St. Lawrence and Sault Ste. Marie Canals from 1940 to 1961.

TOTAL FREIGHT TRAFFIC THROUGH CANADIAN CANALS

1940 - 1961



FREIGHT TRAFFIC THROUGH WELLAND, ST. LAWRENCE
AND SAULT STE. MARIE CANALS, 1940-1961



VESSEL TRAFFIC THROUGH WELLAND, ST. LAWRENCE
AND SAULT STE. MARIE CANALS, 1940-1961

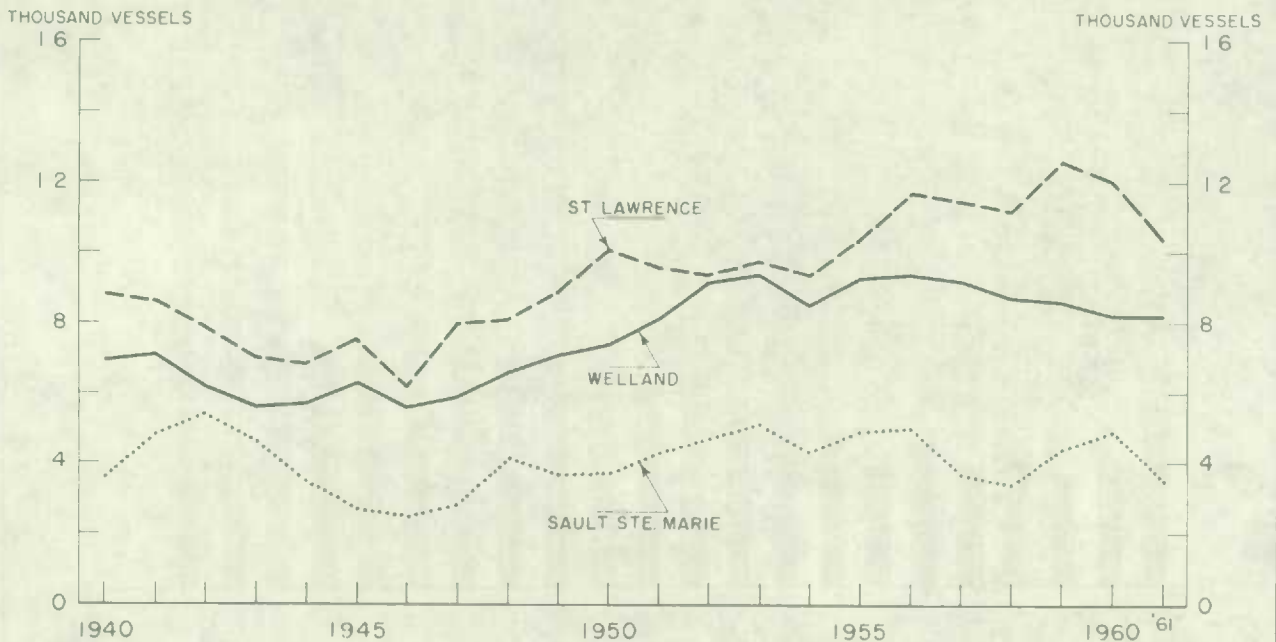
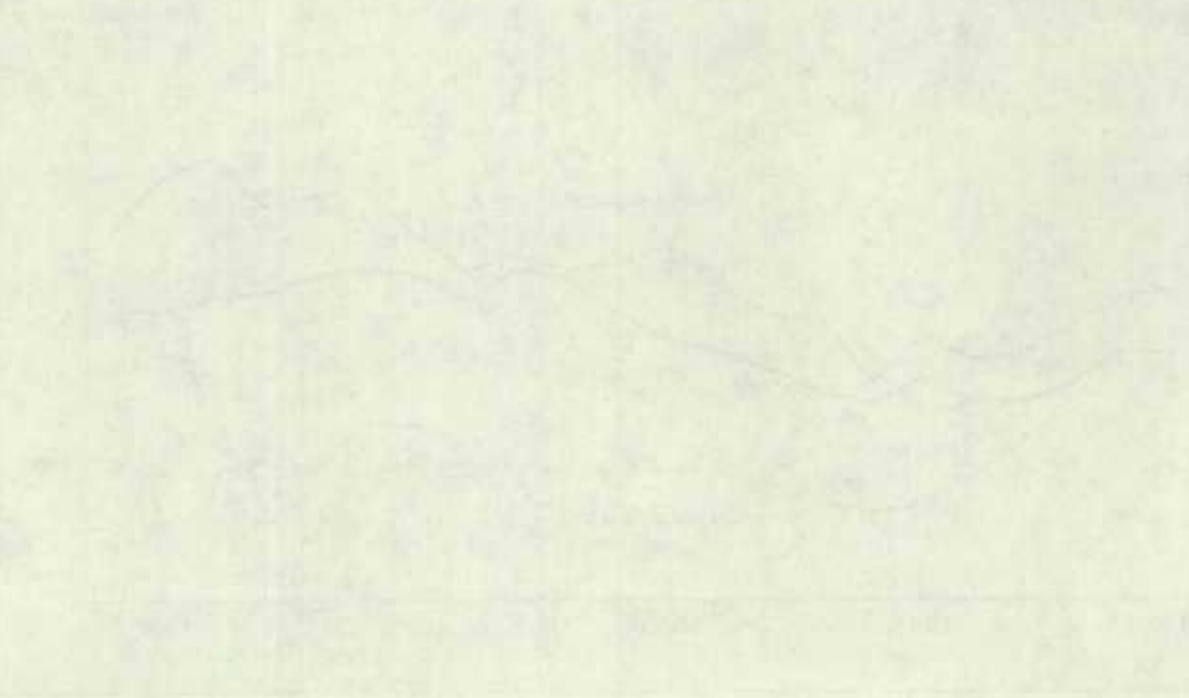


Figure 1. (a) Time series of the monthly mean precipitation (mm) and (b) monthly mean precipitation (mm) for the period 1979-2018. The x-axis represents the year, and the y-axis represents precipitation in millimeters. The plot shows two data series: a solid line representing monthly mean precipitation and a dashed line representing monthly mean precipitation. Both series exhibit a strong seasonal cycle, with precipitation peaking in the summer months (June-August) and reaching a minimum in the winter months (December-February). The overall trend shows a slight increase in precipitation over the period, particularly in the summer months.



Figure 2. (a) Time series of the monthly mean precipitation (mm) and (b) monthly mean precipitation (mm) for the period 1979-2018. The x-axis represents the year, and the y-axis represents precipitation in millimeters. The plot shows two data series: a solid line representing monthly mean precipitation and a dashed line representing monthly mean precipitation. Both series exhibit a strong seasonal cycle, with precipitation peaking in the summer months (June-August) and reaching a minimum in the winter months (December-February). The overall trend shows a slight increase in precipitation over the period, particularly in the summer months.



SECTION I

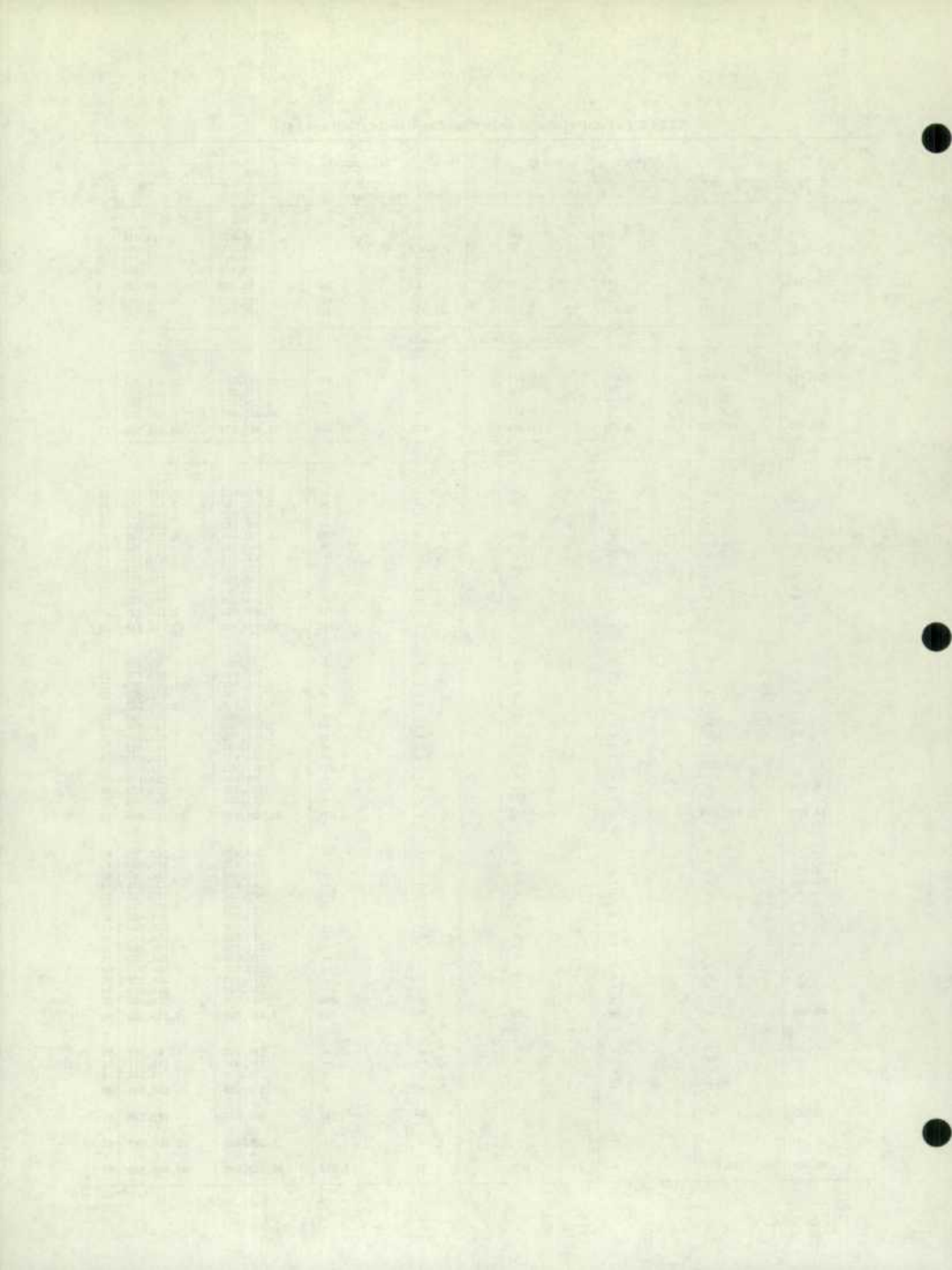
SUMMARY FOR ALL CANALS

TABLE 1. Total Traffic through Canadian Canals, 1960 and 1961

No.	Registry	St. Lawrence	Welland	Sault Ste. Marie	St. Peter's	Canada
Number of vessels, passengers and pleasure craft lockages						
1	Canadian vessels	6,883	4,652	2,032	483	1,078
2	United States vessels	753	1,051	1,336	63	10
3	United Kingdom vessels ¹	856	883	68	1	22
4	Other foreign vessels	1,765	1,619	37	—	70
5	Total vessels	10,257	8,205	3,473	547	1,180
6	Passengers	9,139	2,619	152,884	22	—
7	Pleasure craft lockages	3,634	1,294	..	82	323
Registered net tonnage of vessels						
8	Canadian vessels	11,097,501	17,835,536	2,623,393	9,220	586,039
9	United States vessels	565,931	1,594,969	340,748	1,325	10,305
10	United Kingdom vessels ¹	2,646,460	3,465,755	157,944	138	21,795
11	Other foreign vessels	5,223,313	4,663,615	98,132	—	80,685
12	Total vessels	19,533,205	27,559,875	3,220,217	10,683	698,824
Cargo tons						
Food, feed, beverages and tobacco:						
13	Barley	683,691	887,471	37,941	—	1,300
14	Corn	1,594,903	1,811,489	—	—	—
15	Oats	269,767	338,644	19,814	—	—
16	Rye	153,070	155,923	—	—	—
17	Wheat	6,509,685	7,203,302	45,632	—	1,700
18	Flour, wheat	239,731	242,058	4,642	—	5,855
19	Grain, flour, meal and cereals, n.e.s.	160,905	157,582	26,354	—	5,300
20	Beans and peas, dried	58,382	70,139	—	—	—
21	Sugar	109,245	59,249	—	—	—
22	Molasses, crude and refined	124,129	92,952	—	—	—
23	Soyabean oil cake and meal	115,145	29,050	—	—	—
24	Food, feed, beverages and tobacco, n.e.s.	487,771	434,337	103,997	1,232	29,756
25	Totals	10,506,424	11,482,196	238,380	1,232	43,821
Crude materials, inedible:						
26	Raw hides and skins	45,621	34,498	—	—	—
27	Flaxseed	253,113	288,938	1,495	—	—
28	Soyabeans	523,278	838,773	—	—	—
29	Pulpwood	173,911	236,824	5,021	—	8,042
30	Iron ore	4,024,194	6,746,424	—	—	—
31	Metallic ores and concentrates, n.e.s.	125,525	119,436	—	—	—
32	Iron and steel scrap	1,430,770	1,350,498	2,100	—	—
33	Coal, bituminous	1,129,931	4,339,949	25,652	—	—
34	Crude petroleum	148,213	11,671	—	—	—
35	Clay and bentonite	75,992	69,183	—	—	—
36	Sand, gravel and stone crushed	217,899	774,805	83,405	—	5,002
37	Salt	135,895	206,981	8,902	—	29,171
38	Sulphur	89,375	80,164	—	—	3,659
39	Crude materials, inedible, n.e.s.	316,426	296,948	2,078	—	55,633
40	Totals	8,690,143	15,385,092	128,853	—	101,507
Fabricated materials, inedible:						
41	Woodpulp	48,387	48,387	103,636	—	—
42	Newsprint paper	287,189	471,136	61,928	—	—
43	Sodium products	—	101,839	—	—	—
44	Chemical products, n.e.s.	285,165	328,587	10,242	—	7,696
45	Gasoline	75,202	316,795	75,887	—	218,701
46	Fuel oil	1,119,023	868,408	190,664	—	259,520
47	Lubricating oils and greases	137,817	200,569	—	—	—
48	Coke	144,986	146,414	—	—	—
49	Tar, pitch and creosote	62,183	109,814	36,895	—	—
50	Pig iron	254,441	254,441	—	—	2,960
51	Iron and steel: ingot, billet, rod, etc.	137,691	116,869	11,475	—	—
52	Structural shapes and sheet piling	338,155	251,807	40,698	—	—
53	Iron and steel: n.e.s.	133,361	101,693	—	—	—
54	Cement	25,081	120,948	2,013	—	52,884
55	Miscellaneous fabricated materials, n.e.s.	441,272	389,631	5,241	—	2,886
56	Totals	3,489,953	3,827,338	538,679	—	544,647
End products, inedible:						
57	Machinery, equipment and parts	85,668	73,272	—	—	—
58	Motor vehicles and parts	93,018	63,306	484	—	—
59	End products, inedible, n.e.s.	22,569	30,957	464	—	—
60	Totals	201,275	167,535	948	—	—
61	Miscellaneous freight, n.e.s.	149,982	89,528	46,594	234	12,352
62	Domestic package freight	635,048	442,681	187,696	—	—
63	Grand totals	23,672,825	31,404,370	1,140,950	1,466	702,397

TABLE 1. Total Traffic through Canadian Canals, 1960 and 1961

Richelieu river	Ottawa river	Rideau	Murray	Trent	St. Andrew's	Total		No.
						1961	1960	
Number of vessels, passengers and pleasure craft lockages								
688	961	90	166	36	325	17,332	19,816	1
43	—	17	33	1	—	3,307	5,046	2
—	14	—	1	—	—	1,845	1,303	3
—	—	—	5	—	—	3,496	3,464	4
731	975	107	205	37	325	25,980	29,629	5
—	—	254	27	103	595	165,643	183,862	6
170	7,144	42,371	2,719	82,850	1,467	142,054	128,591	7
Registered net tonnage of vessels								
108,793	237,689	2,679	12,011	426	21,769	32,531,256	28,963,294	8
1,112	—	197	665	10	—	2,515,262	3,660,931	9
—	2,634	—	27	—	—	6,294,753	3,971,597	10
—	—	—	156	—	—	10,065,901	9,455,739	11
109,905	240,323	2,876	12,859	436	21,769	51,407,172	46,051,551	12
Cargo tons								
—	—	—	—	—	—	1,610,403	2,286,339	13
—	—	—	—	—	—	3,406,392	2,429,451	14
—	—	—	—	—	—	628,225	1,078,535	15
—	—	—	—	—	—	308,993	188,804	16
—	—	—	—	—	166	13,760,465	8,555,782	17
—	—	—	—	—	—	492,286	393,116	18
—	—	—	—	—	—	350,141	552,127	19
—	—	—	—	—	—	128,521	139,091	20
—	—	—	—	—	—	168,494	114,851	21
—	—	—	—	—	—	217,081	163,991	22
—	—	—	—	—	—	144,195	149,127	23
—	—	—	—	—	1,176	1,058,249	1,126,201	24
—	—	—	—	—	1,342	22,273,465	17,177,415	25
—	—	—	—	—	—	80,119	84,476	26
—	—	—	—	—	—	543,546	632,679	27
—	—	—	—	—	—	1,362,051	1,564,830	28
—	—	—	—	—	—	423,798	595,468	29
—	—	—	—	—	—	10,770,618	12,238,282	30
—	—	—	—	—	—	244,961	257,045	31
—	—	—	—	—	—	2,783,368	1,143,578	32
4,406	—	—	—	—	—	5,499,938	5,431,367	33
—	—	—	—	—	—	159,884	342,587	34
—	—	—	—	—	—	145,175	114,034	35
—	196,200	—	240	—	6,031	1,283,582	1,788,005	36
—	—	—	—	—	—	380,949	284,175	37
6,825	—	—	—	—	—	180,023	143,973	38
—	—	—	500	—	—	671,585	493,484	39
11,231	196,200	—	740	—	6,031	24,529,597	25,113,983	40
—	—	—	—	—	—	200,410	246,733	41
22,822	—	—	—	—	—	843,075	813,920	42
4,625	—	—	—	—	—	106,464	136,747	43
53,006	—	—	—	—	—	684,696	630,055	44
—	—	—	—	—	—	687,133	777,795	45
—	—	—	—	43	505	2,437,684	2,495,723	46
—	—	—	—	31	38	338,386	346,405	47
—	—	—	—	—	—	291,400	139,549	48
—	—	—	—	—	—	208,692	166,845	49
—	—	—	—	—	—	511,842	120,886	50
—	—	—	—	—	—	286,035	352,703	51
—	—	—	—	—	—	630,600	880,273	52
—	—	—	82	—	—	235,136	288,278	53
—	—	—	—	—	—	200,926	212,252	54
—	—	—	—	—	216	839,246	711,229	55
80,453	—	—	82	74	759	8,481,985	8,319,393	56
—	777	—	—	—	—	159,717	86,991	57
—	—	—	—	—	—	156,808	155,711	58
—	—	—	—	—	—	54,010	46,142	59
—	777	—	—	—	—	376,535	288,844	80
2,845	—	—	—	—	154	301,889	781,595	61
—	—	—	—	—	—	1,265,425	1,265,653	62
94,529	196,977	—	822	74	8,288	57,222,696	52,946,883	63



SECTION II

ST. LAWRENCE SEAWAY CANALS

ST. LAWRENCE CANALS¹
TABLE 2. Location and Description

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

¹ Includes Lachine and Cornwall canals.

² Excludes Wiley-Dondero Canal and two locks near Massena, N.Y. under United States authority. Dimensions are essentially the same as Canadian locks.

TABLE 3. Historical Summary, 1952-61

Registry of Vessel	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961
Vessel transits										
Upbound:										
Canada	4,496	4,584	4,372	4,640	5,227	5,082	4,851	4,736	4,158	3,441
United States	36	30	70	77	92	161	193	340	631	366
United Kingdom	—	—	—	58	78	104	87	298	333	424
Other foreign	160	291	270	315	338	382	516	851	891	875
Totals	4,692	4,905	4,712	5,090	5,735	5,729	5,647	6,225	6,013	5,106
Downbound:										
Canada	4,497	4,603	4,387	4,845	5,374	5,133	4,835	4,853	4,178	3,442
United States	46	34	82	74	111	189	176	350	629	387
United Kingdom .....	..	..	..	64	93	117	81	308	332	432
Other foreign	159	287	268	315	337	378	506	840	888	890
Totals	4,702	4,924	4,737	5,298	5,915	5,817	5,588	6,351	6,027	5,151
Grand totals	9,394	9,829	9,449	10,388	11,650	11,546	11,245	12,576	12,040	10,257
Registered net tons										
Upbound:										
Canada	4,042,462	3,929,199	3,833,787	4,071,714	4,519,684	3,987,352	4,030,044	5,322,137	4,614,030	5,589,350
United States	16,119	13,318	28,882	34,157	39,562	40,187	57,941	507,176	520,540	269,380
United Kingdom .....	..	..	..	39,611	56,528	65,724	55,508	803,757	987,579	1,316,171
Other foreign	119,532	219,329	223,348	262,325	286,072	321,122	427,427	2,038,223	2,583,006	2,593,124
Totals	4,178,113	4,161,846	4,086,027	4,407,807	4,901,846	4,414,385	4,570,920	8,671,293	8,705,155	9,768,027
Downbound:										
Canada	4,014,119	3,961,431	3,834,853	4,297,321	4,684,266	4,029,862	4,025,615	5,392,196	4,532,602	5,508,151
United States	17,574	13,321	31,288	34,925	43,621	49,339	53,554	468,942	527,828	296,551
United Kingdom .....	..	..	..	47,743	68,883	80,647	51,139	812,951	971,340	1,330,289
Other foreign	122,176	215,479	221,740	258,691	286,035	316,716	416,682	2,017,016	2,596,680	2,630,189
Totals	4,153,869	4,190,231	4,087,881	4,638,680	5,082,805	4,476,564	4,546,990	8,691,105	8,628,450	9,765,180
Grand totals	8,331,982	8,352,077	8,173,908	9,046,487	9,984,651	8,890,949	9,117,910	17,362,398	17,333,605	19,533,205
Cargo tons										
Upbound:										
Canada .....	..	..	..	4,391,872	5,323,540	4,686,603	4,099,722	8,085,427	5,610,185	5,585,557
United States .....	..	..	..	11,782	2,200	235	925	510,245	308,849	189,285
United Kingdom .....	..	..	..	44,846	71,453	60,226	78,254	708,082	1,034,710	1,139,442
Other foreign .....	..	..	..	333,303	381,103	341,733	491,346	1,851,215	1,910,581	1,333,953
Totals	3,237,760	2,997,097	2,973,706	4,781,803	5,776,296	5,068,797	4,670,247	11,154,969	8,864,325	8,248,237
Downbound:										
Canada .....	..	..	..	6,219,723	7,243,194	6,569,682	6,495,606	5,747,249	5,855,170	8,801,205
United States .....	..	..	..	36,854	52,114	45,173	29,181	169,684	244,272	337,203
United Kingdom .....	..	..	..	55,824	72,735	83,734	63,809	1,266,991	1,654,228	1,935,888
Other foreign .....	..	..	..	352,416	353,359	404,106	503,257	2,882,387	4,134,166	4,350,292
Totals	6,598,615	7,064,895	6,663,328	6,664,817	7,721,402	7,102,695	7,091,853	10,066,311	11,887,836	15,424,588
Grand totals	9,836,395	10,061,992	9,637,034	11,446,620	13,499,698	12,191,492	11,762,100	21,221,280	20,752,161	23,672,825
Season of navigation										
First vessel passage	April 2	March 31	April 13	April 10	April 12	April 10	April 14	April 25	April 18	April 11
Last vessel passage	Dec. 15	Dec. 14	Dec. 11	Dec. 12	Dec. 13	Dec. 13	Dec. 19	Dec. 3	Dec. 3	Dec. 12

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

Kind of vessel	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
Upbound:							
Cargo	1,066	1,267	2,333	7,684,890	11,460,632	6,196,905	51
Passenger-cargo	33	54	87	164,349	286,044	85,151	1,443
Cargo-passenger	20	263	283	560,228	1,004,935	446,174	398
Scow, barge, etc.	92	—	92	22,963	24,121	—	—
Tug and scow ²	142	6	148	46,126	55,710	2,944	—
Tanker	66	349	415	1,017,926	1,679,843	1,492,016	11
Tug or dredge	303	—	303	23,793	42,678	—	—
Pleasure craft over 40 ft.	1	—	1	4	4	—	—
Naval or government	91	—	91	21,198	29,112	—	15
All other types	276	—	276	3,688	4,428	—	2,522
Totals	2,090	1,939	4,029	9,545,165	14,587,507	8,223,190	4,440
Downbound:							
Cargo	208	2,148	2,356	7,742,086	11,604,485	13,219,033	116
Passenger-cargo	31	28	59	94,310	164,149	129,786	1,414
Cargo-passenger	4	270	274	531,557	954,083	878,035	327
Scow, barge, etc.	112	3	115	34,416	37,316	10,578	—
Tug and scow ¹	118	48	166	57,685	72,477	67,298	—
Tanker	287	120	407	991,475	1,638,123	852,870	3
Tug or dredge	300	1	301	25,947	45,307	1,121	—
Pleasure craft over 40 ft.	1	—	1	94	94	—	—
Naval or government	100	—	100	30,949	36,367	—	—
All other types	277	—	277	6,085	6,935	—	2,839
Totals	1,438	2,618	4,056	9,514,604	14,559,336	15,158,721	4,699
Grand totals	3,528	4,557	8,085	19,059,769	29,146,843	23,381,911	9,139

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

Country of registry	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
Upbound:							
Canada	1,380	1,035	2,415	5,381,079	7,569,380	5,561,984	—
United States	333	30	363	268,126	397,250	189,285	3,686
United Kingdom	78	202	280	933,922	1,614,964	680,133	102
Other British Commonwealth	30	69	99	370,313	548,828	457,835	—
Denmark	—	13	13	7,483	14,489	18,755	—
Finland	5	13	18	36,839	68,883	25,554	—
France	7	24	31	99,886	180,336	47,216	—
Germany	10	199	209	399,498	683,765	379,785	150
Greece	44	7	51	260,250	406,509	48,325	10
Italy	26	18	44	149,619	261,449	51,349	10
Netherlands	6	63	69	163,212	287,785	150,203	334
Norway	57	127	184	539,855	934,752	254,674	45
Sweden	14	79	93	205,440	380,767	92,883	22
Other Europe	20	13	33	110,745	192,465	14,146	37
Panama	21	4	25	97,851	162,094	8,585	—
Other Central America and Caribbean	2	—	2	8,837	14,434	—	—
South America	—	1	1	3,030	5,241	1,893	—
Middle East	1	13	14	39,777	71,220	11,485	44
Other Asia	3	14	17	86,877	146,309	49,303	—
Liberia	52	15	67	376,695	616,311	179,797	—
Other Africa	1	—	1	5,831	9,676	—	—
Totals	2,090	1,939	4,029	9,545,165	14,587,507	8,223,190	4,440
Downbound:							
Canada	1,017	1,378	2,395	5,271,102	7,449,116	8,544,354	—
United States	294	91	385	296,172	433,345	337,129	4,009
United Kingdom	35	257	292	961,670	1,652,506	1,562,565	111
Other British Commonwealth	60	38	98	357,761	534,681	364,838	—
Denmark	1	12	13	7,483	14,488	18,197	—
Finland	—	17	17	32,296	61,484	64,465	—
France	1	32	33	108,752	194,884	183,317	2
Germany	10	202	212	406,966	685,697	679,589	100
Greece	—	52	52	266,750	415,009	481,043	3
Italy	—	49	49	170,958	293,998	312,730	9
Netherlands	2	69	71	169,200	300,185	255,708	354
Norway	1	185	186	535,247	931,890	972,028	47
Sweden	2	90	92	199,251	369,643	288,247	19
Other Europe	2	31	33	107,938	188,172	185,392	27
Panama	1	25	26	98,361	163,625	198,845	—
Other Central America and Caribbean	—	2	2	8,837	14,434	18,885	—
South America	—	1	1	3,030	5,241	956	—
Middle East	—	13	13	38,169	68,413	62,829	18
Other Asia	—	18	18	92,752	155,892	79,729	—
Liberia	12	55	67	376,078	616,955	542,919	—
Other Africa	—	1	1	5,831	9,676	4,956	—
Totals	1,438	2,618	4,056	9,514,604	14,559,336	15,158,721	4,699
Grand totals	3,528	4,557	8,085	19,059,769	29,146,843	23,381,911	9,139

¹ Excludes non toll traffic using Lachine and Cornwall canals only.² Assessed as one unit.

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

Length of vessel	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
Upbound:							
Under 80 feet	481	—	481	10,266	12,484	—	3,008
80 to 119 feet	301	9	310	31,964	52,880	2,079	—
120 " 159 "	87	19	106	52,463	64,164	33,188	—
160 " 199 "	19	15	34	11,171	22,513	8,636	—
200 " 239 "	43	23	66	43,071	60,067	31,972	—
240 " 279 "	440	765	1,205	1,566,687	2,384,489	1,776,682	25
280 " 319 "	15	118	133	166,996	289,203	226,580	336
320 " 359 "	91	233	324	700,336	1,072,816	877,194	374
360 " 399 "	32	180	212	464,192	780,138	454,713	174
400 " 439 "	102	149	251	780,579	1,264,142	445,386	95
440 " 479 "	190	138	328	1,317,287	2,223,292	480,172	347
480 " 519 "	86	114	200	1,049,655	1,616,849	627,238	69
520 " 559 "	56	40	96	595,710	901,283	426,942	10
560 " 599 "	40	17	57	408,599	657,773	224,132	2
600 " 639 "	33	27	60	454,243	647,691	427,973	—
640 " 679 "	28	30	58	535,266	745,416	599,120	—
680 " 719 "	46	62	108	1,356,680	1,792,307	1,581,183	—
Totals	2,090	1,939	4,029	9,545,165	14,587,507	8,223,190	4,440
Downbound:							
Under 80 feet	496	2	498	21,912	28,808	17,554	3,294
80 to 119 feet	305	9	314	32,812	53,111	3,106	—
120 " 159 "	95	14	109	52,443	63,639	29,427	—
160 " 199 "	34	13	47	15,541	26,797	10,445	—
200 " 239 "	10	64	74	54,332	77,950	91,128	2
240 " 279 "	277	894	1,171	1,514,987	2,320,536	2,354,001	22
280 " 319 "	20	112	132	166,133	282,318	258,837	337
320 " 359 "	77	247	324	695,665	1,071,830	1,158,097	408
360 " 399 "	34	185	219	482,837	812,527	735,160	163
400 " 439 "	10	236	246	765,526	1,225,550	1,279,088	57
440 " 479 "	4	335	339	1,355,154	2,284,070	2,451,050	386
480 " 519 "	30	179	209	1,083,643	1,665,792	1,512,455	25
520 " 559 "	5	92	97	599,945	907,078	1,025,442	—
560 " 599 "	6	48	58	413,035	665,498	620,204	—
600 " 639 "	10	55	61	460,062	659,639	819,292	—
640 " 679 "	2	55	57	527,847	793,887	1,018,011	—
680 " 719 "	23	78	101	1,272,730	1,680,306	1,775,424	—
Totals	1,438	2,618	4,056	9,514,604	14,559,336	15,158,721	4,699
Grand totals	3,528	4,557	8,085	19,059,769	29,146,843	23,381,911	9,139

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

Port of origin and country of registry	Destined to						Total		
	Canada			United States			Number of vessels	Registered net tons	Gross tons
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons			
Originating at ports on the St. Lawrence river:									
Registry:									
Canada	1,760	2,885,152	4,129,444	625	2,424,950	3,349,988	2,385	5,310,102	7,479,432
United States	7	2,964	3,565	325	134,521	180,135	332	137,485	183,700
United Kingdom	24	78,858	126,459	42	224,407	354,347	66	303,265	480,806
Other British Commonwealth	75	241,303	364,430	21	108,879	155,482	96	350,182	519,912
France	—	—	—	1	4,305	7,251	1	4,305	7,251
Germany	—	—	—	1	6,276	10,057	1	6,276	10,057
Greece	4	19,539	30,112	1	4,442	7,238	5	23,981	37,350
Italy	—	—	—	4	11,730	24,462	4	11,730	24,462
Norway	1	836	1,617	12	29,101	47,922	13	29,937	49,539
Sweden	—	—	—	1	1,452	2,642	1	1,452	2,642
Other Europe	7	21,952	41,231	2	9,138	11,729	9	31,090	52,960
Panama	—	—	—	3	11,352	19,011	3	11,352	19,011
Other Asia	—	—	—	1	3,305	5,808	1	3,305	5,808
Liberia	2	14,189	21,601	3	14,232	22,649	5	28,421	44,253
Other Africa	—	—	—	1	5,831	9,676	1	5,831	9,676
Totals	1,880	3,264,793	4,718,459	1,043	2,993,921	4,208,397	2,923	6,258,714	8,926,856

¹ Excludes 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 Destination¹ - Concluded

Port of origin and country of registry	Destined to						Total		
	Canada			United States					
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Originating at ports outside the Gulf of St. Lawrence:									
Registry:									
Canada	22	64,618	98,599	8	6,359	11,349	30	70,977	109,948
United States	—	—	—	31	130,641	213,550	31	130,641	213,550
United Kingdom	71	195,110	353,566	143	435,547	760,592	214	630,657	1,134,158
Other British Commonwealth	1	12,965	16,579	2	7,166	12,337	3	20,131	28,916
Denmark	2	1,132	2,223	11	6,351	12,266	13	7,483	14,489
Finland	—	—	—	18	36,839	68,883	18	36,839	68,883
France	3	11,412	21,327	27	84,169	151,758	30	95,581	173,085
Germany	19	49,034	84,556	189	344,188	589,152	208	393,222	673,708
Greece	7	32,027	51,849	39	204,242	317,310	46	236,269	369,159
Italy	9	32,240	53,845	31	105,649	183,142	40	137,889	236,987
Netherlands	2	5,308	9,507	67	157,904	278,278	69	163,212	287,785
Norway	21	60,236	102,930	150	449,682	782,283	171	509,918	885,213
Sweden	10	23,659	46,010	82	180,329	332,115	92	203,968	378,125
Other Europe	6	21,312	39,180	18	58,343	100,325	24	79,655	139,505
Panama	5	13,825	23,027	17	72,674	120,656	22	86,499	143,683
Other Central America and Caribbean	1	4,380	7,176	1	4,457	7,258	2	8,837	14,434
South America	1	3,030	5,241	—	—	—	1	3,030	5,241
Middle East	3	11,793	20,093	11	27,984	51,127	14	39,777	71,220
Other Asia	1	5,869	9,588	15	77,703	130,913	16	83,572	140,501
Liberia	22	135,616	223,924	40	212,658	348,137	62	348,274	572,061
Totals	206	683,566	1,169,220	900	2,602,885	4,491,431	1,106	3,286,451	5,660,651
Grand Totals	2,086	3,948,359	5,887,679	1,943	5,596,806	8,699,828	4,029	9,543,165	14,587,507

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

Port of destination and country of registry	Originating in						Total		
	Canada			United States					
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Destined to ports on the St. Lawrence river:									
Registry:									
Canada	1,864	3,724,234	5,271,051	490	1,488,075	2,069,775	2,354	5,212,309	7,360,826
United States	3	2,096	2,172	333	105,897	134,053	336	107,993	136,225
United Kingdom	31	121,967	192,252	15	49,237	75,580	46	171,204	267,832
Other British Commonwealth	80	270,549	407,602	11	54,618	72,174	91	325,167	479,776
France	1	3,804	7,109	—	—	—	1	3,804	7,109
Germany	1	782	1,552	1	1,090	1,967	2	1,872	3,519
Norway	—	—	—	1	6,814	10,000	1	6,814	10,000
Panama	1	1,374	1,968	—	—	—	1	1,374	1,968
Liberia	2	13,757	22,317	—	—	—	2	13,757	22,317
Totals	1,983	4,138,563	5,906,023	851	1,705,731	2,383,549	2,834	5,844,294	8,289,572
Destined to ports outside the Gulf of St. Lawrence:									
Registry:									
Canada	37	45,886	69,812	4	12,907	18,480	41	58,793	88,292
United States	3	13,082	19,162	46	175,097	277,958	49	188,179	297,120
United Kingdom	90	268,330	475,719	156	522,136	908,955	246	790,466	1,384,674
Other British Commonwealth	3	17,029	28,274	4	15,565	26,631	7	32,594	55,905
Denmark	2	1,132	2,223	11	6,351	12,265	13	7,483	14,488
Finland	—	—	—	17	32,296	61,484	17	32,296	61,484
France	—	—	—	32	104,948	187,775	32	104,948	187,775
Germany	19	59,875	97,598	191	345,219	584,580	210	405,094	682,178
Greece	11	49,658	78,740	41	217,092	336,269	52	266,750	415,009
Italy	6	24,912	41,359	43	146,046	252,639	49	170,956	293,998
Netherlands	4	9,638	17,028	67	159,562	283,159	71	169,200	300,185
Norway	17	47,985	82,751	168	480,448	839,139	185	528,433	921,890
Sweden	12	35,485	66,524	80	163,768	303,119	92	199,251	369,643
Other Europe	11	35,917	87,339	22	72,021	120,833	33	107,938	188,172
Panama	4	10,269	17,354	21	86,718	144,303	25	96,987	181,657
Other Central America and Caribbean	1	4,380	7,176	1	4,457	7,258	2	8,837	14,434
South America	1	3,030	5,241	—	—	—	1	3,030	5,241
Middle East	3	11,793	20,094	10	26,376	48,319	13	38,189	68,413
Other Asia	1	5,869	9,588	17	86,883	146,304	18	92,752	155,892
Liberia	24	147,804	241,067	41	214,517	353,571	65	362,321	594,638
Other Africa	—	—	—	1	5,831	9,676	1	5,831	9,676
Totals	249	792,074	1,347,047	873	2,878,236	4,822,717	1,222	3,870,310	6,269,764
Grand totals	2,232	4,930,637	7,253,070	1,824	4,583,967	7,306,266	4,056	9,714,604	14,559,336

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

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

Country of registry	Steam			Motor			Other			Total		
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Upbound:												
Canada	1,192	4,104,860	5,836,840	969	1,237,577	1,703,051	254	38,642	49,489	2,415	5,381,079	7,589,380
United States	43	197,765	308,797	239	32,218	47,520	81	38,143	40,933	363	268,126	397,250
United Kingdom	140	469,915	801,251	140	464,007	813,713	—	—	—	280	933,922	1,614,964
Other British Commonwealth	77	321,267	462,553	22	49,046	86,275	—	—	—	99	370,313	548,828
Denmark	5	2,885	5,521	8	4,598	8,968	—	—	—	13	7,483	14,489
Finland	15	20,661	41,443	3	16,178	27,440	—	—	—	18	36,839	68,883
France	1	4,389	7,272	30	95,497	173,064	—	—	—	31	99,886	180,336
Germany	11	16,896	30,514	198	382,602	653,251	—	—	—	209	399,498	683,765
Greece	42	216,547	333,875	9	43,703	72,634	—	—	—	51	260,250	406,509
Italy	15	63,621	106,428	29	85,998	155,021	—	—	—	44	149,619	261,449
Netherlands	3	12,201	21,016	66	151,011	266,769	—	—	—	69	163,212	287,785
Norway	13	44,489	73,222	171	495,366	861,530	—	—	—	184	539,855	934,752
Sweden	6	15,017	26,750	87	190,423	354,017	—	—	—	93	205,440	380,767
Other Europe	2	9,152	16,042	31	101,593	176,423	—	—	—	33	110,745	192,465
Panama	14	55,432	91,853	11	42,419	70,841	—	—	—	25	97,851	162,694
Other Central America ²	1	4,457	7,258	1	4,380	7,176	—	—	—	2	8,837	14,434
South America	—	—	—	1	3,030	5,241	—	—	—	1	3,030	5,241
Middle East	2	7,658	13,201	12	32,119	58,019	—	—	—	14	39,777	71,220
Other Asia	3	13,994	23,710	14	72,883	122,599	—	—	—	17	86,877	146,309
Liberia	45	254,942	416,824	22	121,753	199,487	—	—	—	67	376,695	616,311
Other Africa	—	—	—	1	5,831	9,676	—	—	—	1	5,831	9,676
Totals	1,630	5,836,148	8,624,370	2,064	3,632,232	5,872,715	335	76,785	90,422	4,029	9,545,165	14,587,507
Downbound:												
Canada	1,178	4,075,530	5,798,826	936	1,152,921	1,597,106	281	42,651	53,186	2,395	5,271,102	7,449,118
United States	48	191,544	298,159	240	46,847	67,458	97	57,781	67,728	385	296,172	433,345
United Kingdom	138	461,867	777,503	152	499,249	874,353	2	554	650	292	961,670	1,652,506
Other British Commonwealth	77	304,819	441,528	21	52,942	93,153	—	—	—	98	357,761	534,681
Denmark	1	579	1,000	12	6,904	13,488	—	—	—	13	7,483	14,488
Finland	12	12,007	24,897	5	20,289	36,587	—	—	—	17	32,296	61,484
France	4	17,629	28,996	29	91,123	165,888	—	—	—	33	108,752	194,684
Germany	7	17,740	28,538	205	389,226	657,159	—	—	—	212	406,966	685,697
Greece	46	236,619	363,857	6	30,131	51,152	—	—	—	52	266,750	415,009
Italy	25	105,707	173,405	24	65,251	120,593	—	—	—	49	170,958	293,998
Netherlands	6	22,870	41,279	65	146,330	258,906	—	—	—	71	169,200	300,185
Norway	14	58,130	95,993	172	477,117	835,897	—	—	—	186	535,247	931,890
Sweden	3	9,005	16,354	89	190,246	353,289	—	—	—	92	199,251	369,643
Other Europe	1	4,576	8,019	32	103,362	180,153	—	—	—	33	107,938	188,172
Panama	13	53,897	89,068	13	44,464	74,557	—	—	—	26	98,361	163,625
Other Central America ²	1	4,457	7,258	1	4,380	7,178	—	—	—	2	8,837	14,434
South America	—	—	—	1	3,030	5,241	—	—	—	1	3,030	5,241
Middle East	1	4,862	8,190	12	33,307	60,223	—	—	—	13	38,169	68,412
Other Asia	6	27,770	47,612	12	64,982	108,280	—	—	—	18	92,752	155,892
Liberia	42	240,231	394,931	25	135,847	222,024	—	—	—	67	376,078	616,955
Other Africa	1	5,831	9,676	—	—	—	—	—	—	1	5,831	9,676
Totals	1,624	5,855,670	8,655,089	2,052	3,557,948	5,782,683	380	100,986	121,564	4,056	9,514,604	14,559,336
Grand totals	3,254	11,691,818	17,279,459	4,116	7,190,180	11,655,398	715	177,771	211,986	8,085	19,059,769	29,146,843

¹ Excludes non toll traffic using Lachine and Cornwall canals only.² Includes Caribbean.

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

Kind and length	Upbound			Downbound			Total		
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Cargo vessel:									
Under 80 feet	27	330	434	26	7,334	12,125	53	7,664	12,559
80 to 119 feet	10	2,536	3,202	10	2,536	3,202	20	5,072	6,404
120 " 159 "	16	18,615	26,683	15	16,555	23,177	31	35,170	49,860
160 " 199 "	16	5,288	10,368	16	5,519	10,725	32	10,807	21,093
200 " 239 "	20	14,144	26,187	28	22,187	39,599	48	36,331	65,786
240 " 279 "	971	1,283,464	1,929,014	940	1,236,116	1,872,793	1,911	2,519,580	3,801,807
280 " 319 "	114	136,704	242,484	114	136,151	239,359	228	272,855	481,843
320 " 359 "	274	596,469	907,977	276	595,785	914,302	550	1,192,254	1,822,279
360 " 399 "	183	386,520	653,418	188	401,178	678,497	371	787,698	1,331,915
400 " 439 "	249	773,399	1,252,856	240	747,846	1,202,328	489	1,521,245	2,455,182
440 " 479 "	317	1,271,767	2,145,749	327	1,312,231	2,213,758	644	2,583,998	4,359,507
480 " 519 "	182	957,717	1,461,747	167	978,875	1,484,163	349	1,934,592	2,945,910
520 " 559 "	70	423,066	613,070	72	434,794	629,796	142	857,880	1,242,866
560 " 599 "	28	193,259	293,008	31	212,207	325,063	59	405,466	618,071
600 " 639 "	60	454,243	647,691	61	460,062	659,639	121	914,305	1,307,330
640 " 679 "	58	535,268	745,416	57	527,847	733,887	115	1,063,113	1,479,303
680 " 719 "	106	1,358,680	1,792,307	101	1,272,730	1,680,306	209	2,629,410	3,472,613
Totals	2,703	8,409,467	12,751,611	2,689	8,367,953	12,722,717	5,392	16,777,420	25,474,328
Barge and scow:									
Under 80 feet	36	2,836	3,111	49	5,004	5,201	85	7,840	8,312
80 to 119 feet	23	3,117	3,885	23	3,601	4,251	46	6,918	8,136
120 " 159 "	32	16,511	16,628	39	19,149	19,504	71	35,660	36,130
160 " 199 "	1	499	499	—	—	—	1	499	499
200 " 239 "	—	—	—	2	2,182	2,320	2	2,182	2,320
240 " 279 "	—	—	—	1	841	1,591	1	841	1,591
440 " 479 "	—	—	—	1	3,439	4,449	1	3,439	4,449
Totals	92	22,963	24,121	115	34,416	37,316	207	57,379	61,437
Tug and scow:²									
Under 80 feet	18	427	758	16	421	544	34	848	1,302
80 to 119 feet	48	4,708	6,717	58	5,016	7,559	104	9,724	14,276
120 " 159 "	34	7,380	9,477	28	5,875	8,208	62	13,055	17,685
160 " 199 "	—	—	—	16	4,883	5,706	16	4,883	5,706
200 " 239 "	44	27,489	30,938	40	25,250	28,322	84	52,739	59,280
240 " 279 "	2	1,122	2,473	2	1,692	1,917	4	2,814	4,390
400 " 439 "	—	—	—	2	3,505	4,938	2	3,505	4,938
440 " 479 "	—	—	—	2	3,367	4,519	2	3,367	4,519
480 " 519 "	2	5,000	5,347	4	7,876	10,764	6	12,876	16,111
Totals	148	46,126	55,710	166	57,685	72,477	314	103,811	128,187
Tanker:									
160 to 199 feet	3	1,947	2,652	3	1,947	2,652	6	3,894	5,304
200 " 239 "	2	1,438	2,942	4	4,713	7,709	6	6,151	10,651
240 " 279 "	232	282,101	453,002	227	275,451	442,426	459	557,552	895,428
280 " 319 "	15	23,279	38,126	13	19,662	32,566	28	42,941	70,692
320 " 359 "	50	103,867	164,839	48	99,880	157,528	98	203,747	322,367
360 " 399 "	29	77,672	126,720	31	81,659	134,030	60	159,331	260,750
400 " 439 "	2	7,180	11,286	2	7,175	11,286	4	14,355	22,572
440 " 479 "	11	45,520	77,543	9	36,117	61,344	20	81,637	138,887
480 " 519 "	16	88,938	149,755	18	98,892	170,865	34	185,830	320,620
520 " 559 "	26	172,644	288,213	25	165,151	277,282	51	337,795	565,495
560 " 599 "	29	215,340	364,765	27	200,828	340,435	56	416,168	705,200
Totals	415	1,017,926	1,679,843	407	991,475	1,638,123	822	2,009,401	3,317,966
Tug or dredge:									
Under 80 feet	74	2,146	2,842	77	2,281	3,171	151	4,427	6,013
80 to 119 feet	227	21,070	36,543	218	20,762	37,271	445	41,832	75,814
120 " 159 "	1	195	524	3	1,331	1,673	4	1,526	2,197
160 " 199 "	1	382	769	2	686	1,383	3	1,088	2,152
240 " 279 "	—	—	—	1	887	1,809	1	887	1,809
Totals	303	23,793	42,678	301	25,947	45,307	604	49,740	87,985
Other vessels:									
Under 80 feet	328	4,527	5,339	330	6,872	7,767	658	11,399	13,108
80 to 119 feet	2	533	533	7	697	828	9	1,230	1,361
120 " 159 "	23	9,762	10,854	24	9,733	11,077	47	19,495	21,931
160 " 199 "	13	3,055	6,225	10	2,506	6,331	23	5,561	14,556
280 " 319 "	4	7,013	8,593	5	10,320	10,393	9	17,333	18,986
400 " 439 "	—	—	—	2	7,000	7,000	2	7,000	7,000
Totals	368	24,890	33,544	378	37,128	43,396	746	62,018	76,940
Grand totals	4,029	9,545,165	14,587,507	4,056	9,514,604	14,559,336	8,085	19,059,769	29,146,843

¹ Excludes non toll traffic using Lachine and Cornwall canals only.² Assessed as one unit.

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

Kind of vessel and draft	Upbound			Downbound			Total		
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Cargo vessel:									
5 feet and under	27	330	434	23	253	322	50	583	756
6 to 7 feet	—	—	—	1	11	14	1	11	14
8 " 9 "	1	289	553	1	289	553	2	578	1,106
10 " 11 "	16	12,873	22,511	18	17,753	29,480	34	30,626	51,991
12 " 13 "	106	119,390	177,809	42	21,696	34,823	148	141,086	212,632
14 " 15 "	243	365,245	486,737	216	310,928	420,721	459	676,173	907,458
16 " 17 "	398	531,671	833,916	432	566,545	878,246	830	1,098,216	1,712,162
18 " 19 "	528	921,204	1,409,760	526	878,295	1,352,660	1,054	1,799,499	2,762,440
20 " 21 "	371	1,122,993	1,617,448	396	1,214,564	1,740,657	769	2,337,557	3,358,105
22 " 23 "	171	520,211	800,248	186	571,087	881,961	357	1,091,298	1,682,209
24 " 25 "	348	1,762,199	2,731,964	347	1,760,632	2,732,840	695	3,522,831	5,464,804
26 " 27 "	276	1,913,518	2,787,836	265	1,824,924	2,661,842	541	3,738,442	5,449,678
28 " 29 "	137	638,716	1,064,978	148	679,473	1,138,974	285	1,318,189	2,203,952
30 feet and over	81	500,828	817,397	86	521,503	849,624	167	1,022,331	1,667,021
Totals	2,703	8,409,467	12,751,611	2,689	8,367,953	12,722,717	5,392	16,777,420	25,474,328
Barge or scow:									
5 feet and under	81	20,664	21,065	94	24,822	24,747	175	45,286	45,812
6 to 7 feet	6	775	1,250	10	1,459	1,981	16	2,234	3,231
8 " 9 "	2	637	637	6	2,117	2,362	8	2,754	2,999
10 " 11 "	2	243	415	—	—	—	2	243	415
12 " 13 "	1	644	754	1	644	754	2	1,268	1,508
14 " 15 "	—	—	—	1	1,194	1,332	1	1,194	1,332
16 " 19 "	—	—	—	1	841	1,591	1	841	1,591
22 " 23 "	—	—	—	1	100	100	1	100	100
24 " 25 "	—	—	—	1	3,439	4,449	1	3,439	4,449
Totals	92	22,963	24,121	115	34,416	37,316	207	57,379	61,437
Tug and scow:²									
5 feet and under	40	5,584	6,951	28	5,729	7,027	68	11,313	13,978
6 to 7 feet	20	3,532	4,227	24	3,314	4,176	44	6,846	8,403
8 " 9 "	40	10,365	13,267	48	5,678	8,425	88	16,043	21,692
10 " 11 "	24	13,527	14,787	22	7,104	8,700	46	20,631	23,487
12 " 13 "	8	3,566	4,489	18	9,536	10,866	26	13,102	15,355
14 " 15 "	14	8,430	9,516	18	13,835	16,442	32	22,265	25,958
16 " 17 "	2	1,122	2,473	4	5,059	6,436	6	6,181	8,909
18 " 19 "	—	—	—	4	7,430	10,405	4	7,430	10,405
Totals	148	46,126	55,710	166	57,685	72,477	314	103,811	128,187
Tanker:									
12 to 13 feet	53	62,185	90,014	53	62,709	90,667	106	124,894	180,681
14 " 15 "	37	52,364	72,355	37	51,513	71,055	74	103,877	143,410
16 " 17 "	176	247,598	421,438	171	239,054	408,457	347	486,652	829,895
18 " 19 "	13	16,278	31,679	13	16,961	32,975	26	33,239	64,654
20 " 21 "	26	53,982	92,719	26	62,070	103,888	54	116,052	196,607
22 " 23 "	27	66,099	92,481	26	65,102	92,984	53	131,201	185,465
24 " 25 "	4	9,364	16,242	5	15,912	27,500	9	25,276	43,742
26 " 27 "	7	40,426	64,438	6	35,300	55,916	13	75,726	120,354
28 " 29 "	23	126,314	216,720	21	111,989	192,878	44	238,303	409,598
30 feet and over	49	343,316	581,757	47	330,865	561,803	96	674,181	1,143,560
Totals	415	1,017,926	1,679,843	407	991,475	1,638,123	822	2,009,401	3,317,966
Tug or dredge:									
5 feet and under	55	7,087	7,239	52	7,234	7,367	107	14,321	14,606
6 to 7 feet	42	1,842	2,279	39	1,616	1,941	81	3,458	4,220
8 " 9 "	100	3,058	10,429	95	2,901	10,208	195	5,959	20,637
10 " 11 "	45	4,100	8,736	40	3,326	7,009	85	7,426	15,745
12 " 13 "	59	7,355	13,158	70	8,007	14,387	129	15,362	27,545
14 " 15 "	2	351	837	4	1,976	2,586	6	2,327	3,423
18 " 19 "	—	—	—	1	887	1,809	1	887	1,809
Totals	303	23,793	42,678	301	25,947	45,307	604	49,740	87,985
Other vessels:									
5 feet and under	302	3,585	4,194	302	5,651	6,270	604	9,246	10,464
6 to 7 feet	35	4,281	5,394	37	2,385	4,034	72	6,666	9,428
8 " 9 "	14	7,063	7,505	19	8,684	8,783	33	15,747	16,288
10 " 11 "	1	233	233	3	582	585	4	815	818
12 " 13 "	10	2,320	5,267	8	2,121	3,973	18	4,441	9,240
14 " 15 "	—	—	—	3	7,100	7,100	3	7,100	7,100
16 " 17 "	6	7,398	10,951	3	2,385	4,431	9	9,783	15,382
18 " 19 "	—	—	—	2	4,720	4,720	2	4,720	4,720
20 " 21 "	—	—	—	1	3,500	3,500	1	3,500	3,500
Totals	368	24,890	33,544	378	37,128	43,396	746	62,018	76,940
Grand totals	4,029	9,545,165	14,587,507	4,056	9,514,604	14,559,336	8,085	19,059,769	29,146,843

¹ Excludes non toll traffic using Lachine and Cornwall canals only.² Assessed as one unit.

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

Country of loading	Cargo unloaded								
	In Canada			In United States			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
	tons								
Ports on the St. Lawrence river:									
Canada	2,359,155	2,326	2,361,481	3,781,503	226,323	4,007,826	6,140,658	228,649	6,369,307
United States	—	—	—	2,762	—	2,762	2,762	—	2,762
Totals	2,359,155	2,326	2,361,481	3,784,265	226,323	4,010,588	6,143,420	228,649	6,372,069
Ports outside the Gulf of St. Lawrence:									
Canada-Atlantic ports	5,655	—	5,655	17,126	72,244	89,370	22,781	72,244	95,025
Canada-Pacific ports	1,373	—	1,373	—	—	—	1,373	—	1,373
United States-Atlantic and Gulf ports	33,035	456	33,491	116,558	—	116,558	149,591	456	150,047
United States-Pacific ports	—	3,371	3,371	—	—	—	—	3,371	3,371
United Kingdom	24,602	76,489	101,091	28,007	78,241	106,248	52,609	154,730	207,339
West Indies Federation	148,748	—	148,748	13,952	2	13,954	160,700	2	160,702
Other British Commonwealth	49,328	8,505	57,833	303	22,143	22,446	49,631	30,648	80,279
Belgium	5,898	56,816	62,714	5,959	207,124	213,083	11,857	263,940	275,797
Denmark	14,639	1,773	16,412	438	3,301	3,737	15,075	5,074	20,149
Finland	441	1,562	2,003	26,082	4,876	30,958	26,523	6,438	32,961
France	80	8,479	8,559	25,439	47,159	72,598	25,519	55,838	81,157
Germany	3,214	41,213	44,427	7,474	70,550	78,024	10,668	111,763	122,451
Greece	5,071	180	5,251	—	357	357	5,071	537	5,608
Italy	5,945	21,693	27,638	12,232	20,372	32,604	18,177	42,065	60,242
Netherlands	1,590	16,379	17,969	12,583	57,634	70,217	14,173	74,013	86,186
Norway	35	4,652	4,687	5,694	15,090	20,784	5,729	19,742	25,471
Portugal	11	3,950	3,961	45	2,641	2,686	56	6,591	6,647
Sweden	540	8,240	6,780	16,528	12,268	28,794	17,066	18,508	35,574
Other Europe	20,883	11,898	32,581	41,320	21,016	62,336	62,003	32,916	94,919
Central America and Caribbean	44,870	174	45,044	21,836	—	21,836	66,706	174	66,880
South America	127,287	433	127,720	26,424	2,635	29,059	153,711	3,068	156,779
Middle East	—	1,899	1,899	—	841	841	—	2,740	2,740
Other Asia	—	12,322	12,322	3,765	47,859	51,624	3,765	60,181	63,946
Other Africa	84	161	245	8,632	121	8,753	8,716	282	8,998
Totals	491,129	278,645	769,774	390,391	686,476	1,076,867	881,520²	965,121	1,846,641
In transit	—	—	—	—	—	—	4,480	—	4,480
Grand totals	2,850,284	280,971	3,131,255	4,174,656	912,799	5,087,455	7,029,420	1,193,770	8,223,190

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

Country of unloading	Cargo loaded								
	In Canada			In United States			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
Ports on the St. Lawrence river:									
Canada	6,451,411	—	6,451,411	2,714,794	6,370	2,721,164	9,166,205	6,370	9,172,575
United States	—	—	—	71,788	—	71,788	71,788	—	71,788
Totals	6,451,411	—	6,451,411	2,786,582	6,370	2,792,952	9,237,993	6,370	9,244,363
Ports outside the Gulf of St. Lawrence:									
Canada-Atlantic ports	202,700	—	202,700	—	24	24	202,700	24	202,724
United Kingdom	451,651	23,491	475,142	332,196	79,951	412,147	783,847	103,442	887,289
West Indies Federation	7,058	1,977	9,035	8,005	881	8,886	15,063	2,858	17,921
Other British Commonwealth	827	17,658	18,485	24,287	85,647	110,134	25,114	103,505	128,619
Belgium	77,300	58,255	135,555	357,404	22,087	379,491	434,704	80,342	515,046
Denmark	30	486	516	39,818	2,413	42,229	39,846	2,899	42,745
Finland	22	120	142	1,866	1,581	3,447	1,888	1,701	3,589
France	22,839	9,949	32,788	130,919	22,486	153,405	153,758	32,435	186,193
Germany	30,353	17,349	47,732	251,911	45,545	297,456	282,264	62,924	345,188
Greece	59	2,230	2,289	12,054	3,594	15,648	12,113	5,824	17,937
Italy	58,866	22,853	81,719	330,693	34,045	364,738	369,559	58,898	446,457
Netherlands	82,350	24,236	106,586	1,125,683	109,130	1,234,813	1,208,033	133,366	1,341,399
Norway	15,641	214	15,855	81,085	4,849	85,734	96,726	4,863	101,589
Portugal	40	59	99	207	5,335	5,542	247	5,394	5,641
Sweden	71	1,539	1,610	44,407	20,655	65,062	44,478	22,194	66,672
Other Europe	52,139	6,001	58,140	159,880	29,190	189,070	212,019	35,191	247,210
Panama	—	—	—	—	91	91	—	91	91
Other Central America and Caribbean	499	3,491	3,990	9,172	2,472	11,644	9,871	5,963	15,834
South America	2,637	53,053	55,690	185,634	15,196	200,830	188,271	68,249	256,520
Middle East	6,002	4,843	10,845	121,716	51,481	173,197	127,718	56,324	184,042
Other Asia	192,225	5,787	198,012	527,655	45,299	572,954	719,880	51,086	770,966
Other Africa	2,736	83	2,799	114,574	6,999	123,573	117,310	9,062	126,372
Totals	1,206,045	253,684	1,459,729	3,859,164	590,951	4,450,115	5,065,209	844,635	5,909,844
In transit	—	—	—	—	—	—	4,514	—	4,514
Grand totals	7,657,456	253,684	7,911,140	6,645,746	597,321	7,243,067	14,307,716	851,005	15,158,721

¹ Excludes non toll traffic using Lachine and Cornwall canals only.² Due to an error in tabulation the total tonnage of bulk cargo should be reduced by 21,140 tons and the total general cargo increased accordingly.

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

Loaded at	Registry of vessel	Cargo tons		
		Bulk	General	Total
Ports on the St. Lawrence river	Canada	5,328,774	226,004	5,554,778
	United States	138,111	—	138,111
	United Kingdom	207,328	175	207,503
	Other British Commonwealth	457,835	—	457,835
	Germany	10,920	—	10,920
	Italy	—	1,546	1,546
	Norway	449	922	1,371
	Sweden	3	2	5
	Totals	6,143,420	228,649	6,372,069
	Ports outside the Gulf of St. Lawrence	Canada	4,830	2,376	7,206
United States		38,568	12,606	51,174
United Kingdom		256,592	215,687	472,279
Denmark		18,755	—	18,755
Finland		6,199	19,355	25,554
France		8,371	38,845	47,216
Germany		42,051	326,478	368,529
Greece		42,935	5,390	48,325
Italy		30,972	18,831	49,803
Netherlands		25,635	124,568	150,203
Norway		168,612	84,691	253,303
Sweden		45,612	47,266	92,878
Other Europe		5,606	8,540	14,146
Panama		4,358	4,227	8,585
South America		1,655	—	1,655
Middle East		654	10,804	11,458
Other Asia		318	45,457	45,775
Liberia		179,797	—	179,797
Totals		881,520²	965,121	1,846,641
In transit		4,480	—	4,480
Grand totals		7,029,420	1,193,770	8,223,190

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

Unloaded at	Registry of vessel	Cargo tons		
		Bulk	General	Total
Ports on the St. Lawrence river	Canada	8,450,940	6,350	8,457,290
	United States	159,025	—	159,025
	United Kingdom	315,955	3	315,958
	Other British Commonwealth	312,073	—	312,073
	Netherlands	—	1	1
	Sweden	—	12	12
	Middle East	—	4	4
	Totals	9,237,983	6,370	9,244,363
Ports outside the Gulf of St. Lawrence	Canada	86,837	227	87,064
	United States	117,913	60,191	178,104
	United Kingdom	1,161,983	84,278	1,246,261
	Other British Commonwealth	44,385	8,380	52,765
	Denmark	18,418	1,779	18,197
	Finland	57,213	7,252	64,465
	France	165,025	18,292	183,317
	Germany	496,517	182,754	679,271
	Greece	457,717	23,326	481,043
	Italy	281,576	31,154	312,730
	Netherlands	162,293	93,414	255,707
	Norway	882,306	89,722	972,028
	Sweden	203,871	84,358	288,229
	Other Europe	141,864	43,528	185,392
	Panama	196,043	2,802	198,845
	Other Central America and Caribbean	18,885	—	18,885
	South America	—	718	718
	Middle East	22,332	40,466	62,798
	Other Asia	53,281	22,869	76,150
	Liberia	495,674	47,245	542,919
	Other Africa	3,076	1,880	4,956
Totals	5,065,209	844,635	5,909,844	
In Transit	4,514	—	4,514	
Grand totals	14,307,716	851,005	15,158,721	

¹ Excludes non toll traffic using Lachine and Cornwall canals only.² Due to an error in tabulation the total tonnage of bulk cargo should be reduced by 21,140 tons and the total general cargo increased accordingly.

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

Kind of vessel and gross tonnage	Upbound							Downbound							
	Number of vessels			Cargo tons			Average cargo tons per loaded vessel	Number of vessels			Cargo tons			Average cargo tons per loaded vessel	
	In ballast	With cargo	Total	Bulk	General	Total		In ballast	With cargo	Total	Bulk	General	Total		
Cargo vessel:															
Under 1,000 gross tons	29	43	72	17,748	4,719	22,467	522.5	34	36	70	15,279	3,521	18,800	522.2	
1,000 to 1,999	304	340	644	421,056	190,516	611,572	1,798.7	58	570	628	1,264,941	124,853	1,389,794	2,438.2	
2,000 " 2,999	145	432	577	457,421	446,629	904,050	2,092.7	45	527	572	1,324,644	181,597	1,506,241	2,858.1	
3,000 " 3,999	104	183	287	523,215	102,426	625,641	3,418.8	21	263	284	1,270,498	53,629	1,324,127	5,034.7	
4,000 " 4,999	87	148	235	363,453	131,618	495,071	3,345.1	26	211	237	1,078,249	77,467	1,155,716	5,477.3	
5,000 " 5,999	53	71	124	181,483	52,659	234,142	3,297.8	4	124	128	735,607	90,776	826,383	6,664.4	
6,000 " 6,999	59	68	127	268,370	33,095	301,465	4,433.3	10	124	134	812,243	51,001	863,244	6,961.6	
7,000 " 7,999	148	68	216	230,939	111,821	342,760	5,040.6	5	214	219	1,689,437	99,770	1,789,207	8,360.8	
8,000 " 8,999	51	34	85	132,297	52,412	184,709	5,432.6	2	85	87	651,794	83,611	735,405	8,651.8	
9,000 " 9,999	29	44	73	186,778	50,680	237,458	5,396.8	3	70	73	570,247	68,956	639,203	9,131.5	
10,000 " 10,999	16	23	39	98,999	10,132	109,131	4,744.8	3	33	36	377,845	14,484	391,829	11,873.6	
11,000 " 11,999	15	16	31	153,375	5,009	158,384	9,899.0	1	31	32	446,532	—	446,532	14,404.3	
12,000 " 12,999	21	29	50	483,596	2,054	485,650	16,746.6	8	44	52	715,839	—	715,839	16,269.1	
13,000 " 13,999	16	15	31	323,800	—	323,800	21,586.7	—	30	30	559,498	—	559,498	18,649.9	
14,000 " 14,999	1	9	10	131,322	—	131,322	14,591.3	—	10	10	147,128	—	147,128	14,712.8	
15,000 " 15,999	10	8	18	179,372	—	179,372	22,421.5	1	17	18	354,038	—	354,038	20,825.8	
16,000 " 16,999	9	2	11	49,653	—	49,653	24,826.5	2	7	9	158,008	—	158,008	22,572.6	
17,000 and over	22	51	73	1,331,583	—	1,331,583	26,109.5	20	50	70	1,205,862	—	1,205,862	24,117.2	
Totals	1,119	1,584	2,703	5,534,460	1,193,770	6,728,230	4,247.6	243	2,446	2,689	13,377,189	849,665	14,226,854	5,816.4	
Barge or scow:															
Under 1,000 gross tons	92	—	92	—	—	—	—	112	—	112	—	—	—	—	
1,000 to 1,999	—	—	—	—	—	—	—	—	2	2	4,635	536	5,171	2,585.5	
4,000 " 4,999	—	—	—	—	—	—	—	—	1	1	4,603	804	5,407	5,407.0	
Totals	92	—	92	—	—	—	—	112	3	115	9,238	1,340	10,578	3,526.0	
Tug and scow:²															
Under 1,000 gross tons	94	4	98	556	—	556	139.0	114	2	116	255	—	255	127.5	
1,000 to 1,999	44	2	46	2,388	—	2,388	1,194.0	4	38	42	45,789	—	45,789	1,205.0	
2,000 " 2,999	2	—	2	—	—	—	—	—	—	—	—	—	—	—	
4,000 " 4,999	—	—	—	—	—	—	—	—	4	4	10,307	—	10,307	2,576.8	
5,000 " 5,999	2	—	2	—	—	—	—	—	4	4	10,947	—	10,947	2,736.8	
Totals	142	6	148	2,944	—	2,944	490.7	118	48	166	67,298	—	67,298	1,402.0	
Tanker:															
Under 1,000 gross tons	3	—	3	—	—	—	—	—	3	3	4,224	—	4,224	1,408.0	
1,000 to 1,999	11	114	125	324,427	—	324,427	2,845.9	96	28	124	68,937	—	68,937	2,462.0	
2,000 " 2,999	3	121	124	397,514	—	397,514	3,285.2	103	17	120	49,013	—	49,013	2,683.1	
3,000 " 3,999	3	42	45	195,805	—	195,805	4,662.0	34	11	45	40,810	—	40,810	3,710.0	
4,000 " 4,999	1	29	30	170,141	—	170,141	5,866.9	28	2	30	10,029	—	10,029	5,014.5	
5,000 " 5,999	2	6	8	40,149	—	40,149	6,691.5	5	3	8	24,757	—	24,757	8,252.3	
6,000 " 6,999	—	2	2	3,041	—	3,041	1,520.5	—	2	2	16,508	—	16,508	8,254.0	
7,000 " 7,999	—	3	3	28,965	—	28,965	9,655.0	—	2	2	18,654	—	18,654	9,327.0	
8,000 " 8,999	1	4	5	11,637	—	11,637	2,909.3	—	4	4	40,705	—	40,705	10,176.3	
9,000 " 9,999	2	9	11	84,241	—	84,241	9,360.1	9	2	11	21,278	—	21,278	10,639.0	
10,000 " 10,999	13	8	21	92,016	—	92,016	11,502.0	3	20	23	229,724	—	229,724	11,486.2	
11,000 " 11,999	7	4	11	47,217	—	47,217	11,804.3	3	7	10	86,005	—	86,005	12,286.4	
12,000 " 12,999	19	1	20	13,489	—	13,489	13,489.0	—	18	18	228,537	—	228,537	12,696.5	
13,000 " 13,999	1	6	7	83,374	—	83,374	13,895.7	6	1	7	13,689	—	13,689	13,689.0	
Totals	68	349	415	1,492,016	—	1,492,016	4,275.1	287	120	407	852,870	—	852,870	7,107.3	
Other vessels:															
Under 1,000 gross tons	665	—	665	—	—	—	—	669	—	669	—	—	—	—	
1,000 to 1,999	3	—	3	—	—	—	—	4	1	5	1,121	—	1,121	1,121.0	
2,000 " 2,999	3	—	3	—	—	—	—	3	—	3	—	—	—	—	
3,000 " 3,999	—	—	—	—	—	—	—	2	—	2	—	—	—	—	
Totals	671	—	671	—	—	—	—	678	1	679	1,121	—	1,121	1,121.0	
Grand totals	2,090	1,939	4,029	7,029,420³	1,193,770	8,223,190	4,240.9	1,438	2,618	4,056	14,307,716	851,005	15,158,721	5,790.2	

¹ Excludes non toll traffic using Lachine and Cornwall canals only.² Assessed as one unit.³ Due to an error in tabulation the total tonnage of bulk cargo should be reduced by 21,140 tons and the total general cargo increased accordingly.

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

No.	Commodity	Canada to		United States to		United Kingdom to	
		Canada	United States	Canada	United States	Canada	United States
		tons					
	Food, feed, beverages and tobacco:						
1	Fish and marine animals	—	5,069	—	—	135	38
2	Barley	—	28,487	—	—	—	1,434
3	Cereals, milled, n.e.s.	—	—	—	—	192	36
4	Fruits and fruit preparations	—	—	1,745	—	376	532
5	Vegetables and vegetable preparations	—	—	77	—	230	20
6	Sugar	—	—	3,248	11,139	—	—
7	Molasses, crude and refined	—	—	—	—	—	—
8	Sugar preparations (incl. confectionery)	—	—	—	—	2,928	1,031
9	Misc. foods (materials and preparations)	5	—	1,227	—	3,133	1,433
10	Ale, beer and wines	—	—	—	—	940	369
11	Distilled alcoholic beverages	—	—	—	—	3,721	23,160
12	Food, feed, beverages and tobacco, n.e.s.	2,445	241	485	—	2,311	359
13	Totals	2,450	33,797	6,782	11,139	13,966	28,419
	Crude materials, inedible:						
14	Crude animal products, inedible (ex. fibres)	—	—	—	—	91	125
15	Rubber, natural	—	—	—	—	60	—
16	Crude vegetable materials, inedible, n.e.s.	3,989	2,189	—	—	837	124
17	Pulpwood	82,132	91,779	—	—	—	—
18	Textile and related fibres (incl. waste)	—	—	—	—	508	724
19	Aluminum ore and concentrates	—	—	—	—	11	—
20	Iron ore	309,267	3,500,607	—	—	—	—
21	Metallic ores and concentrates, n.e.s.	—	—	—	—	17	—
22	Coal, bituminous	553,057	—	—	—	—	—
23	Crude petroleum	17,129	—	—	11,230	—	—
24	Clay and bentonite	—	—	—	—	10,687	23,440
25	Stone, crushed and broken	7,583	—	—	—	1,162	—
26	Phosphate rock	47,172	—	13,715	—	—	—
27	Sulphur	39,472	15,369	—	34,514	—	—
28	Non-metallic minerals, crude, n.e.s.	—	8,772	15,285	30,532	94	1,474
29	Crude materials, inedible, n.e.s.	3,099	—	—	—	392	357
30	Totals	1,062,900	3,618,716	29,000	76,276	13,159	26,344
	Fabricated materials, inedible:						
31	Wood fabricated materials	1,036	—	—	—	212	37
32	Woodpulp	1,484	6,643	—	—	—	—
33	Newsprint paper	—	287,189	—	—	—	—
34	Paper and paperboard, n.e.s.	—	—	—	—	556	66
35	Cordage, twine and rope	—	—	—	—	915	364
36	Fish and animal oils	787	88	—	—	4,558	—
37	Vegetable oils and fats, n.e.s.	—	—	—	—	8,016	620
38	Oils, fats, waxes, n.e.s.	3,440	477	—	—	123	37
39	Chemicals	7,380	3,265	4,136	—	4,460	1,211
40	Fertilizers	31,374	—	—	—	—	—
41	Chemical products, n.e.s.	2,751	—	192	2,762	2,896	1,767
42	Gasoline	15,803	—	—	5,522	—	—
43	Fuel oil	892,600	62,989	—	13,340	3	—
44	Lubricating oils and greases	107,330	—	—	10,279	2	31
45	Tar, pitch and creosote	2,000	—	—	—	441	80
46	Ferro-alloys	—	—	—	—	21	—
47	Pig iron	—	76,561	—	—	—	—
48	Iron and steel: ingot, bar, rod, etc.	—	—	—	—	3,398	3,989
49	Steel: plate, sheet and strip	—	—	—	—	1,848	906
50	Structural shapes and sheet piling	239	—	—	—	3,857	1,804
51	Iron and steel: pipes, tubes and fittings	—	—	—	—	3,139	4,889
52	Iron and steel: wire and wire rope	—	—	—	—	2,217	4,300
53	Iron and steel, n.e.s.	—	—	—	—	739	270
54	Aluminum: bar, ingot, pig and slab	20,396	3,080	—	—	13	—
55	Non-ferrous metals and alloys, n.e.s.	—	—	—	—	1,242	2,000
56	Metal fabricated basic products, n.e.s.	—	—	—	—	1,080	610
57	Glass: plate, sheet and structural	—	—	—	—	1,164	5,902
58	Cement	3,615	—	—	—	22	72
59	Miscellaneous fabricated materials, n.e.s.	—	—	—	—	3,234	838
60	Totals	1,090,235	440,290	4,328	31,903	44,146	29,767
	End products, inedible:						
61	Machinery, equipment and parts	568	—	—	—	4,993	5,085
62	Motor vehicles and parts	—	9	—	—	1,979	3,445
63	End products, inedible, n.e.s.	—	—	—	—	1,614	4,245
64	Totals	568	9	—	—	8,586	12,775
65	Miscellaneous freight, n.e.s.	17,011	4,384	—	—	21,234	9,043
66	Domestic package freight	195,345	—	—	—	—	—
67	In transit freight	—	—	—	—	—	—
68	Grand totals	2,368,509	4,097,196	40,110	119,316	101,091	106,248

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

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

Other British Commonwealth to		Other Europe to		Other countries to		Total to		Grand total	No.
Canada	United States	Canada	United States	Canada	United States	Canada	United States		
				tons					
—	—	1,414	4,286	627	3,138	2,176	12,531	14,707	1
—	—	—	18,232	—	—	—	48,153	48,153	2
48	1,871	182	143	1,666	11,251	2,088	13,301	15,389	3
1,375	531	10,561	14,818	806	4,785	14,863	20,673	35,536	4
60	—	9,575	5,683	56	171	9,998	5,874	15,872	5
73,344	—	9,412	1,662	4,462	5,423	90,466	18,224	108,690	6
58,852	13,952	—	—	20,482	30,843	79,334	44,795	124,129	7
—	—	1,539	694	—	—	4,467	1,725	6,192	8
273	52	2,394	1,450	432	1,123	7,464	4,058	11,522	9
—	—	3,495	27,022	31	338	4,466	27,729	32,195	10
58	2	612	1,306	6	9	4,397	24,477	28,874	11
1,241	605	5,139	3,565	1,107	670	12,728	5,440	18,168	12
135,251	17,013	44,323	78,861	29,675	57,751	232,447	226,980	459,427	13
—	—	175	4,256	—	649	268	5,032	5,298	14
4,818	11,212	—	—	—	—	4,878	11,212	16,090	15
973	50	2,033	2,488	231	3,229	8,063	8,080	16,143	16
—	—	—	—	—	—	82,132	91,779	173,911	17
152	95	2,925	1,449	774	405	4,359	2,673	7,032	18
18,903	—	5,071	—	6,765	17,322	30,750	17,322	48,072	19
—	—	336	—	—	—	309,603	3,500,607	3,810,210	20
—	—	—	5,949	—	—	17	5,949	5,966	21
23,889	—	—	—	87,046	—	553,057	—	553,057	22
—	—	—	7	—	—	128,064	11,230	139,294	23
—	—	6,294	5,479	—	—	10,687	23,447	34,134	24
—	—	40	50	—	—	14,339	5,479	19,818	25
—	—	20	—	—	—	60,927	50	60,977	26
—	—	704	30,130	—	3,522	39,492	49,883	89,375	27
13	—	576	370	127	69	16,083	74,430	90,513	28
48,748	11,357	18,174	50,180	94,943	25,196	4,207	796	5,003	29
—	—	—	—	—	—	1,266,924	3,807,969	5,074,893	30
114	588	2,053	2,977	4,291	5,503	7,809	9,100	16,909	31
—	—	—	40,260	—	—	1,484	46,903	48,387	32
—	—	—	—	—	—	—	287,189	287,189	33
—	—	2,220	9,386	150	1,020	2,926	10,471	13,397	34
—	—	4,132	9,840	14	10	5,061	10,214	15,275	35
5,148	—	212	7,121	11	2,213	5,568	9,420	14,988	36
12	—	824	11,289	441	11	14,429	11,920	26,349	37
—	—	168	171	551	598	4,294	1,283	5,577	38
—	—	19,182	20,866	754	330	35,912	25,672	61,584	39
—	—	4,669	1,547	—	—	36,043	1,547	37,590	40
—	—	3,975	4,262	712	85	10,516	8,876	19,392	41
11,731	—	—	—	50,646	—	15,803	5,522	21,325	42
—	—	—	—	—	—	954,980	76,329	1,031,309	43
—	—	—	—	—	—	107,332	10,310	117,642	44
—	—	16	—	—	—	2,457	60	2,517	45
—	—	690	12,582	—	1,104	711	13,686	14,397	46
—	—	—	7	—	—	—	76,568	76,568	47
—	—	8,159	74,033	—	3,876	11,557	81,898	93,455	48
11	1,019	1,932	2,935	31	93	3,822	4,953	8,775	49
—	—	45,828	125,631	—	—	49,924	127,435	177,359	50
—	—	2,472	10,516	69	252	5,680	15,657	21,337	51
—	—	5,158	40,209	209	2,693	7,584	47,202	54,786	52
—	—	2,229	6,594	—	58	2,968	6,920	9,888	53
—	—	—	7,046	—	—	20,409	10,126	30,535	54
6	6,254	4,040	4,542	58	340	5,346	13,136	18,482	55
—	—	1,113	7,639	504	5,826	2,697	14,075	16,772	56
—	—	5,016	31,662	—	—	6,180	37,564	43,744	57
—	—	15,648	1,341	—	—	19,285	1,413	20,698	58
—	—	1,942	2,348	761	803	5,937	3,989	9,926	59
17,122	7,861	131,678	434,804	59,205	24,813	1,346,714	969,438	2,316,152	60
—	—	2,929	4,578	111	66	8,601	9,729	18,330	61
13	5	11,069	21,007	—	—	13,048	24,461	37,509	62
—	—	3,001	3,444	133	147	4,761	7,841	12,602	63
13	5	16,999	29,029	244	213	26,410	42,031	68,441	64
199	184	21,808	23,306	3,163	4,140	63,415	41,037	104,452	65
—	—	—	—	—	—	195,345	—	195,345	66
—	—	—	—	—	—	—	—	4,480	67
201,333	36,400	232,982	616,180	187,230	112,113	3,131,255	5,087,455	8,223,190	68

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

No.	Commodity	Canada to						Total
		Canada	United States	United Kingdom	Other British Commonwealth	Other Europe	Other countries	
		tons						
	Food, feed, beverages and tobacco:							
1	Meat and meat preparations	—	—	20	592	683	121	1,416
2	Milk powder	—	—	—	30	1,876	3,829	5,735
3	Barley	337,781	—	34,917	—	—	—	372,698
4	Corn	34,341	—	1,120	—	3,408	—	38,869
5	Oats	182,845	—	113	—	353	57	183,368
6	Rye	63,022	—	—	—	26,303	—	89,325
7	Wheat	4,901,365	—	176,176	—	165,776	2,209	5,245,526
8	Cereals, unmilled, n.e.s.	9,573	—	2,296	—	—	—	11,869
9	Corn meal	—	—	—	—	—	—	—
10	Malt	47,405	—	57	—	—	—	47,462
11	Wheat flour	29,595	—	12,001	3,808	14	3,162	48,580
12	Grain, flour, meal and cereals, n.e.s.	3,655	—	113	—	25	—	3,793
13	Beans and peas, dried	11,102	—	4,959	—	—	—	16,061
14	Margarine, shortening and lard	—	—	74	—	—	—	74
15	Soyabean oil cake and meal	11,521	—	96,603	224	224	—	108,572
16	Fodder and feed, n.e.s.	28,853	—	17,533	73	67	94	46,620
17	Food, beverages and tobacco, n.e.s.	4,224	—	1,137	433	1,666	204	7,664
18	Totals	5,665,282	—	347,119	5,180	200,395	9,676	6,227,632
	Crude materials, inedible:							
19	Raw hides and skins	—	—	344	—	9,092	1,657	11,093
20	Crude animal products, inedible, n.e.s.	—	—	15	—	159	48	222
21	Seeds for sowing	—	—	396	—	582	3,805	4,783
22	Flaxseed	136,775	—	39,367	—	7,033	—	183,175
23	Soyabeans	65,475	—	10,316	—	—	—	75,791
24	Logs and round timber	—	—	505	—	551	—	1,056
25	Iron ore	26,880	—	15,680	—	179	—	42,739
26	Zinc ore and concentrates	14,038	—	—	—	39,988	—	54,026
27	Metallic ores and concentrates, n.e.s.	—	—	796	—	14,782	—	15,578
28	Iron and steel scrap	—	—	393	763	47,156	172,839	221,151
29	Non-ferrous metal scrap	—	—	81	460	1,437	1,142	3,120
30	Slags, drosses and other by-products	19,422	—	68	—	497	187	20,174
31	Coal, bituminous	—	—	—	—	—	—	—
32	Crude petroleum	—	—	—	—	—	—	—
33	Natural asphalt (gilsonite)	—	—	—	—	—	—	—
34	Clay and bentonite	—	—	—	—	347	—	347
35	Salt	115,246	—	—	—	—	—	115,246
36	Waste and scrap materials, n.e.s.	—	—	87	12	2,019	124	2,342
37	Crude materials, inedible, n.e.s.	—	—	450	222	608	659	1,939
38	Totals	377,836	—	68,498	1,457	124,430	180,461	752,682
	Fabricated materials, inedible:							
39	Fish and animal oils	—	—	3,820	354	—	214	4,388
40	Soyabean oil	—	—	12,318	—	—	—	12,318
41	Oils, fats, waxes, n.e.s.	—	—	2,607	25	25	—	2,657
42	Chemicals	11,253	—	14,217	484	2,899	68	28,921
43	Rubber, synthetic and reclaimed	—	—	6,122	2,859	28,066	2,291	39,338
44	Chemical products, n.e.s.	20,312	—	2,559	3,176	4,400	1,986	32,433
45	Gasoline	53,873	—	—	—	—	—	53,873
46	Fuel oil	19,423	—	—	—	—	—	19,423
47	Lubricating oils and greases	2,693	—	73	—	—	—	2,766
48	Coke	—	—	3,968	—	16,766	—	22,734
49	Tar, pitch and creosote	31,722	—	—	—	—	134	31,856
50	Petroleum and coal products, n.e.s.	15,873	—	273	—	89	76	16,311
51	Pig iron	46,291	—	—	—	14,931	19,411	80,633
52	Iron and steel: ingot, billet, rod, etc.	247	—	239	3,402	12,771	16,224	32,883
53	Steel: plate, sheet and strip	11	—	3,417	1,614	10,785	4,796	20,623
54	Structural shapes and sheet piling	8,527	—	149	1,593	40,504	19,438	70,211
55	Iron and steel: pipes, tubes and fittings	—	—	139	144	—	917	1,200
56	Iron and steel, n.e.s.	3,145	—	137	26	14,962	11,763	30,033
57	Non-ferrous metals and alloys	—	—	768	50	3,421	718	4,957
58	Building bricks, clay	—	—	—	—	—	—	—
59	Miscellaneous fabricated materials, n.e.s.	119	—	4,527	6,100	1,518	1,914	14,178
60	Totals	213,489	—	55,333	19,827	153,137	79,950	521,736
	End products, inedible:							
61	Machinery, equipment and parts	266	—	988	147	1,105	543	3,049
62	Motor vehicles	—	—	21	—	756	4	781
63	Motor vehicles parts	—	—	48	40	596	60	744
64	End products, inedible, n.e.s.	2	—	718	156	598	227	1,701
65	Totals	268	—	1,775	343	3,055	834	6,275
66	Miscellaneous freight, n.e.s.	249	—	2,417	733	2,014	415	5,828
67	Domestic package freight	396,987	—	—	—	—	—	396,987
68	In transit freight	—	—	—	—	—	—	—
69	Grand totals	6,654,111	—	475,142	27,520	483,031	271,336	7,911,140

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

WELLAND CANAL

TABLE 15. Location and Description

	From	To	Length of channel miles	Locks			
				Number	Minimum dimensions		
					Length	Width	Depth
					feet		
Welland canal	Port Weller	Port Colborne, Ont.	27.6	8	859	80	30

TABLE 16. Historical Summary, 1952-61

Registry of vessel	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961
Vessel transits										
Upbound:										
Canada	3,560	3,598	3,140	3,260	3,366	3,195	3,007	2,604	2,446	2,356
United States	992	907	900	1,094	985	991	852	789	664	508
United Kingdom .....	..	..	..	31	41	44	57	226	261	440
Other foreign	155	283	262	312	324	372	489	727	765	800
Totals	4,707	4,788	4,302	4,697	4,716	4,602	4,405	4,346	4,136	4,104
Downbound:										
Canada	3,399	3,462	3,080	3,245	3,298	3,191	2,978	2,554	2,362	2,296
United States	893	654	836	1,053	985	953	815	778	631	543
United Kingdom .....	..	..	..	33	40	42	53	242	269	443
Other foreign	159	268	261	306	321	366	485	729	771	817
Totals	4,451	4,584	4,177	4,637	4,644	4,552	4,331	4,303	4,033	4,101
Grand totals ..	9,158	9,372	8,479	9,334	9,360	9,154	8,736	8,649	8,169	8,205
Registered net tons										
Upbound:										
Canada	6,566,360	7,465,490	6,837,003	7,750,515	8,415,509	7,869,319	7,749,945	7,440,456	7,985,140	9,016,598
United States	1,528,380	1,442,241	1,393,178	1,539,429	1,439,363	1,530,133	1,255,100	1,363,458	1,081,346	773,615
United Kingdom .....	..	..	..	21,080	28,840	29,235	36,774	724,092	916,379	1,763,584
Other foreign	116,301	214,824	217,187	259,013	275,406	314,429	411,234	1,574,929	2,014,373	2,287,643
Totals	8,211,041	9,122,555	8,447,368	9,570,037	10,159,118	9,743,116	9,453,053	11,102,935	11,997,240	13,841,440
Downbound:										
Canada	6,410,504	7,332,471	6,733,184	7,719,372	8,288,581	7,869,268	7,585,201	7,266,006	7,853,010	8,818,938
United States	1,423,544	1,359,253	1,349,538	1,495,689	1,460,322	1,523,621	1,251,542	1,409,253	1,078,993	821,354
United Kingdom .....	..	..	..	22,988	28,067	28,166	34,047	755,799	926,891	1,702,171
Other foreign	121,142	205,485	217,603	251,551	270,682	307,547	403,892	1,582,943	2,051,355	2,375,972
Totals	7,955,190	8,897,209	8,300,325	9,489,580	10,047,652	9,728,602	9,274,682	11,014,001	11,910,249	13,718,435
Grand totals ..	16,166,231	18,019,764	16,747,693	19,059,617	20,206,770	19,471,718	18,727,735	22,116,936	23,907,489	27,559,875
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
United States .....	..	..	..	687,670	566,891	465,645	433,776	894,109	855,226	539,217
United Kingdom .....	..	..	..	25,573	32,756	16,832	34,970	562,631	791,772	1,126,378
Other foreign .....	..	..	..	260,773	266,214	254,642	357,333	1,066,194	976,432	880,660
Totals	2,288,540	2,582,462	2,395,791	4,259,992	5,069,312	5,140,672	5,005,587	9,596,566	8,399,723	7,644,652
Downbound:										
Canada .....	..	..	..	14,100,847	15,373,069	14,258,609	13,666,961	12,313,690	14,191,374	15,936,884
United States .....	..	..	..	2,201,827	2,294,298	2,605,432	2,124,193	1,835,374	1,338,914	1,261,462
United Kingdom .....	..	..	..	16,503	32,028	35,615	43,477	1,119,736	1,610,708	2,579,610
Other foreign .....	..	..	..	314,403	297,554	332,210	433,976	2,640,658	3,740,018	3,981,762
Totals	15,622,216	16,959,688	15,118,467	16,633,580	17,996,949	17,231,866	16,268,607	17,909,458	20,881,014	23,759,718
Grand totals ..	17,910,756	19,542,150	17,514,258	20,893,572	23,066,261	22,372,538	21,274,194	27,506,024	29,280,737	31,404,370
Season of navigation										
First vessel passage	March 27	March 28	March 25	March 30	March 31	March 30	April 1	April 6	April 1	April 1
Last vessel passage	Dec. 19	Dec. 20	Dec. 17	Dec. 17	Dec. 20	Dec. 18	Dec. 18	Dec. 15	Dec. 15	Dec. 15

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

Kind of vessels	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
Upbound:							
Cargo	1,687	1,195	2,882	12,014,977	17,359,265	6,163,880	36
Passenger-cargo	8	49	57	146,240	250,744	59,437	940
Cargo-passenger	25	247	272	530,536	950,132	340,232	308
Scow, barge, etc.	17	4	21	14,088	15,566	7,479	—
Tug and scow ¹	210	162	372	195,398	218,620	172,048	—
Tanker	164	228	392	912,845	1,499,361	901,576	11
Tug or dredge	73	—	73	10,898	23,645	—	—
Naval or Government ..	27	—	27	16,142	17,190	—	—
All other types	8	—	8	316	506	—	—
Totals	2,219	1,885	4,104	13,841,440	20,335,029	7,644,652	1,293
Downbound:							
Cargo	189	2,678	2,865	11,948,036	17,339,967	21,278,500	104
Passenger-cargo	11	25	36	93,888	159,180	102,814	944
Cargo-passenger	9	252	261	504,072	905,425	783,319	267
Scow, barge, etc.	8	14	22	21,374	24,739	32,343	—
Tug and scow ¹	104	302	406	215,823	245,929	353,827	—
Tanker	158	236	394	899,282	1,485,129	1,208,915	11
Tug or dredge	75	—	75	7,779	15,497	—	—
Naval or Government ..	34	—	34	24,674	25,477	—	—
All other types	8	—	8	3,557	5,459	—	—
Totals	596	3,505	4,101	13,718,435	20,206,802	23,759,718	1,326
Grand totals	2,815	5,390	8,205	27,559,875	40,541,831	31,404,370	2,619

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

Country of registry	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
Upbound:							
Canada	1,456	900	2,356	9,016,598	12,665,661	5,098,397	—
United States	274	234	508	773,615	1,043,063	539,217	683
United Kingdom	106	138	244	857,275	1,458,327	435,764	47
Other British Commonwealth ..	97	99	196	906,309	1,237,208	690,614	—
Denmark	7	4	11	6,351	12,266	5,728	—
Finland	5	12	17	31,600	59,813	23,677	—
France	10	19	29	92,236	165,222	37,216	—
Germany	11	180	191	341,749	591,599	276,706	119
Greece	39	6	45	236,329	368,244	37,047	10
Italy	23	19	42	136,448	244,258	49,591	10
Netherlands	6	60	66	150,224	265,059	115,629	306
Norway	65	108	173	501,262	868,673	200,621	45
Sweden	20	69	89	195,032	360,943	78,006	19
Other Europe	21	10	31	106,081	183,701	6,402	12
Panama	21	3	24	92,609	154,502	2,715	—
Other Central America and Caribbean ..	1	—	1	4,457	7,258	—	—
Middle East	1	11	12	31,194	56,591	6,557	42
Other Asia	4	11	15	75,138	127,163	29,544	—
Liberia	52	1	53	281,102	455,801	8,649	—
Other Africa	—	1	1	5,831	9,676	572	—
Totals	2,219	1,885	4,104	13,841,440	20,335,029	7,644,652	1,293
Downbound:							
Canada	395	1,901	2,296	8,818,938	12,394,326	15,936,884	—
United States	77	466	543	821,354	1,097,994	1,261,462	707
United Kingdom	30	235	265	928,144	1,568,544	1,604,031	52
Other British Commonwealth ..	77	101	178	774,027	1,077,590	977,579	—
Denmark	—	12	12	8,913	13,376	18,197	—
Finland	—	16	16	31,151	59,075	56,846	—
France	—	32	32	104,948	187,775	181,153	2
Germany	6	191	197	371,533	629,367	609,989	88
Greece	—	46	46	242,829	376,744	433,192	11
Italy	1	44	45	154,580	266,977	284,927	9
Netherlands	2	68	70	167,065	296,191	232,233	354
Norway	3	171	174	508,485	884,321	893,962	47
Sweden	2	89	91	197,534	366,437	277,830	19
Other Europe	3	29	32	104,538	181,872	175,883	20
Panama	—	23	23	88,280	147,355	182,402	—
Other Central America and Caribbean ..	—	1	1	4,457	7,258	9,261	—
Middle East	—	10	10	26,376	48,319	55,317	17
Other Asia	—	17	17	86,883	146,304	87,146	—
Liberia	—	52	52	274,569	447,301	498,448	—
Other Africa	—	1	1	5,831	9,676	4,956	—
Totals	596	3,505	4,101	13,718,435	20,206,802	23,759,718	1,326
Grand totals	2,815	5,390	8,205	27,559,875	40,541,831	31,404,370	2,619

¹ Assessed as one unit.

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

Length of vessel	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
Upbound:							
Under 80 feet	41	—	41	1,612	2,707	—	—
80 to 119 feet	135	6	141	24,908	37,409	2,373	—
120 " 159 "	21	9	30	23,080	30,516	31,758	—
160 " 199 "	13	16	29	11,890	19,312	8,816	—
200 " 239 "	135	171	306	204,833	239,310	194,215	—
240 " 279 "	410	593	1,003	1,303,281	2,019,436	1,261,088	23
280 " 319 "	55	128	183	251,050	399,353	251,642	340
320 " 359 "	95	170	265	569,551	870,605	585,769	363
360 " 399 "	65	171	236	513,061	856,225	397,205	153
400 " 439 "	215	167	382	1,181,660	1,800,285	540,888	70
440 " 479 "	286	159	445	1,712,656	2,791,592	454,103	297
480 " 519 "	194	119	313	1,558,557	2,297,377	750,521	38
520 " 559 "	115	49	164	972,446	1,400,057	544,126	7
560 " 599 "	81	13	94	626,376	944,614	150,936	2
600 " 639 "	110	27	137	1,063,001	1,518,577	419,342	—
640 " 679 "	78	27	105	966,735	1,330,337	539,766	—
680 " 719 "	170	60	230	2,856,743	3,777,317	1,512,102	—
Totals	2,219	1,885	4,104	13,841,440	20,335,029	7,644,652	1,293
Downbound:							
Under 80 feet	48	3	51	4,567	7,786	8,525	—
80 to 119 feet	123	17	140	16,148	23,294	8,502	—
120 " 159 "	19	7	26	21,216	27,619	29,062	—
160 " 199 "	17	14	31	13,586	21,933	9,855	—
200 " 239 "	24	312	336	223,531	260,127	388,691	—
240 " 279 "	150	812	962	1,234,626	1,930,952	2,092,565	21
280 " 319 "	22	160	182	250,800	393,053	403,170	334
320 " 359 "	44	228	272	577,182	893,105	1,052,911	400
360 " 399 "	33	202	235	509,464	856,924	780,927	145
400 " 439 "	43	330	373	1,157,221	1,751,491	2,059,490	42
440 " 479 "	8	455	463	1,787,001	2,909,346	2,955,902	354
480 " 519 "	25	282	307	1,522,373	2,273,934	2,308,184	26
520 " 559 "	17	148	165	976,105	1,407,631	1,622,403	4
560 " 599 "	4	87	91	606,638	918,335	1,097,744	—
600 " 639 "	1	142	143	1,107,256	1,579,449	2,262,686	—
640 " 679 "	—	100	100	922,946	1,268,030	1,680,793	—
680 " 719 "	18	206	224	2,787,777	3,683,793	4,798,308	—
Totals	596	3,505	4,101	13,718,435	20,206,802	23,759,718	1,326
Grand totals	2,815	5,390	8,205	27,559,875	40,541,831	31,404,370	2,619

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

Port of origin and country of registry	Destined to						Total		
	Canada			United States			Number of vessels	Registered net tons	Gross tons
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons			
Originating at ports on Lake Ontario:									
Registry:									
Canada	682	1,843,150	2,696,307	620	3,329,578	4,804,974	1,302	5,172,728	7,301,281
United States	9	7,808	10,332	177	370,113	491,579	186	377,921	501,911
United Kingdom	7	25,860	43,330	18	63,898	100,492	25	89,758	143,822
Other British Commonwealth	50	208,806	285,436	100	484,895	644,454	150	693,701	929,890
France	—	—	—	1	3,804	7,109	1	3,804	7,109
Greece	—	—	—	2	10,859	18,129	2	10,859	18,129
Italy	—	—	—	1	1,480	2,651	1	1,480	2,651
Norway	—	—	—	3	5,429	9,076	3	5,429	9,076
Sweden	—	—	—	3	3,198	6,663	3	3,198	6,663
Panama	1	507	930	—	—	—	1	507	930
Other Asia	—	—	—	1	5,885	9,583	1	5,885	9,583
Liberia	—	—	—	1	4,328	7,072	1	4,328	7,072
Totals	749	2,066,131	3,036,335	927	4,283,467	5,901,782	1,676	6,369,598	8,938,117
Originating at ports on the St. Lawrence River:									
Registry:									
Canada	464	1,463,440	2,083,695	576	2,354,950	3,244,478	1,040	3,818,390	5,328,173
United States	—	—	—	41	97,551	135,064	41	97,551	135,064
United Kingdom	14	65,839	105,499	42	224,407	354,347	56	290,246	459,846
Other British Commonwealth	24	93,638	136,652	19	98,839	141,750	43	192,477	278,402
France	—	—	—	1	4,305	7,251	1	4,305	7,251
Germany	—	—	—	1	6,276	10,057	1	6,276	10,057
Greece	2	10,745	15,669	1	4,442	7,238	3	15,187	22,907
Italy	—	—	—	5	13,409	32,155	5	13,409	32,155
Norway	—	—	—	12	29,101	47,922	12	29,101	47,922
Sweden	—	—	—	1	1,452	2,642	1	1,452	2,642
Other Europe	7	21,952	41,231	2	9,138	11,729	9	31,090	52,960
Panama	—	—	—	3	11,352	19,011	3	11,352	19,011
Other Asia	—	—	—	1	3,305	5,808	1	3,305	5,808
Liberia	1	6,330	8,428	3	14,232	22,649	4	20,562	31,077
Other Africa	—	—	—	1	5,831	9,676	1	5,831	9,676
Totals	512	1,661,944	2,391,174	709	2,878,590	4,051,777	1,221	4,540,534	6,442,951

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			
Originating at ports outside the Gulf of St. Lawrence:									
Registry:									
Canada	4	17,499	23,572	10	7,981	12,635	14	25,480	36,207
United States	17	9,899	10,816	264	286,244	395,272	281	296,143	406,088
United Kingdom	28	71,083	126,516	135	406,188	728,143	163	477,271	854,659
Other British Commonwealth	1	12,965	16,579	2	7,166	12,337	3	20,131	28,916
Denmark	1	562	1,111	10	5,789	11,155	11	6,351	12,266
Finland	—	—	—	17	31,600	59,813	17	31,600	59,813
France	—	—	—	27	84,127	150,862	27	84,127	150,862
Germany	7	17,404	33,609	183	318,069	547,933	190	335,473	581,542
Greece	2	10,599	17,579	38	199,684	309,629	40	210,283	327,208
Italy	6	19,136	32,454	30	102,423	176,999	36	121,559	209,453
Netherlands	1	3,173	5,513	65	147,051	259,546	66	150,224	265,059
Norway	9	22,535	38,859	149	444,197	772,816	158	466,732	811,675
Sweden	4	11,060	21,442	81	179,322	330,196	85	190,382	351,638
Other Europe	6	21,312	39,180	16	53,679	91,561	22	74,991	130,741
Panama	3	8,076	13,905	17	72,674	120,656	20	80,750	134,561
Other Central America and Caribbean	—	—	—	1	4,457	7,258	1	4,457	7,258
Middle East	1	3,210	5,464	11	27,984	51,127	12	31,194	56,591
Other Asia	—	—	—	13	65,948	111,772	13	65,948	111,772
Liberia	8	43,554	69,515	40	212,658	348,137	48	256,212	417,652
Totals	98	272,067	456,114	1,109	2,659,241	4,497,847	1,207	2,931,308	4,953,961
Grand totals	1,359	4,020,142	5,883,623	2,745	9,821,298	14,451,406	4,104	13,841,440	20,335,039

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			
Destined to ports on Lake Ontario:									
Registry:									
Canada	685	1,779,403	2,605,766	569	3,278,581	4,517,304	1,254	5,057,984	7,123,070
United States	1	60	89	173	382,464	506,956	174	382,524	507,045
United Kingdom	1	756	1,776	24	80,629	127,760	25	81,385	129,536
Other British Commonwealth	37	116,860	169,195	92	449,617	602,405	129	566,477	771,600
Italy	1	1,480	2,651	—	—	—	1	1,480	2,651
Sweden	—	—	—	1	1,316	2,865	1	1,316	2,865
Liberia	1	5,898	9,144	—	—	—	1	5,898	9,144
Totals	726	1,904,457	2,788,621	859	4,192,607	5,757,290	1,585	6,097,064	8,545,911
Destined to ports on the St. Lawrence river:									
Registry:									
Canada	595	2,323,682	3,254,442	427	1,390,695	1,944,878	1,022	3,714,377	5,199,320
United States	—	—	—	45	70,515	93,105	45	70,515	93,105
United Kingdom	20	116,150	180,657	15	49,237	75,580	35	165,387	256,237
Other British Commonwealth	34	135,537	199,768	8	39,419	51,317	42	174,956	251,085
Germany	—	—	—	1	1,090	1,967	1	1,090	1,967
Norway	—	—	—	1	6,814	10,000	1	6,814	10,000
Totals	649	2,575,369	3,634,867	497	1,557,770	2,176,847	1,146	4,133,139	5,811,714
Destined to ports outside the Gulf of St. Lawrence:									
Registry:									
Canada	12	31,672	51,200	8	14,905	20,736	20	46,577	71,936
United States	10	10,720	12,259	314	357,595	485,585	324	368,315	497,844
United Kingdom	50	161,550	279,635	155	519,822	903,136	205	681,372	1,182,771
Other British Commonwealth	3	17,029	28,274	4	15,565	26,631	7	32,594	54,905
Denmark	1	562	1,111	11	6,351	12,265	12	6,913	13,376
Finland	—	—	—	16	31,151	59,075	16	31,151	59,075
France	—	—	—	32	104,948	187,775	32	104,948	187,775
Germany	8	29,027	48,714	188	341,416	578,686	196	370,443	627,400
Greece	5	25,737	40,475	41	217,092	336,269	46	242,829	376,744
Italy	3	11,808	19,968	41	141,272	244,358	44	153,080	264,326
Netherlands	3	7,503	13,032	67	159,562	283,159	70	167,065	296,191
Norway	9	25,484	43,150	164	476,187	831,171	173	501,671	874,321
Sweden	11	34,476	64,496	79	161,742	299,076	90	196,218	363,572
Other Europe	11	35,917	67,339	21	68,621	114,533	32	104,538	181,872
Panama	3	5,891	10,200	20	82,389	137,155	23	88,280	147,355
Other Central America and Caribbean	—	—	—	1	4,457	7,258	1	4,457	7,258
Middle East	—	—	—	10	26,376	48,319	10	26,376	48,319
Other Asia	—	—	—	17	86,883	146,304	17	86,883	146,304
Liberia	10	54,174	84,586	41	214,517	353,571	51	268,691	438,157
Other Africa	—	—	—	1	5,831	9,676	1	5,831	9,676
Totals	139	451,550	764,439	1,231	3,036,682	5,084,738	1,370	3,488,232	5,849,177
Grand totals	1,514	4,931,376	7,187,927	2,587	8,787,059	13,018,875	4,101	13,718,435	20,206,802

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	1,716	7,872,052	11,093,821	554	1,119,374	1,541,632	86	25,172	30,208	2,356	9,016,598	12,665,661
United States	105	472,506	674,174	94	111,629	158,552	309	189,480	210,337	508	773,615	1,043,063
United Kingdom	128	464,762	772,647	115	391,479	683,897	1	1,034	1,783	244	857,275	1,458,327
Other British Commonwealth	179	862,469	1,164,086	17	43,840	73,122	—	—	—	196	906,309	1,237,208
Denmark	3	1,741	3,300	8	4,610	8,966	—	—	—	11	6,351	12,266
Finland	15	20,661	41,443	2	10,939	18,370	—	—	—	17	31,600	59,813
France	2	8,921	14,542	27	83,315	150,680	—	—	—	29	92,236	165,222
Germany	11	16,896	30,514	180	324,853	561,085	—	—	—	191	341,749	591,599
Greece	38	198,956	305,062	7	37,373	63,182	—	—	—	45	236,329	368,244
Italy	12	50,517	85,037	30	85,931	159,222	—	—	—	42	136,448	244,259
Netherlands	2	6,386	11,069	64	143,838	253,990	—	—	—	66	150,224	265,059
Norway	8	21,295	33,687	165	479,967	834,986	—	—	—	173	501,262	868,673
Sweden	6	15,017	26,750	83	180,015	334,193	—	—	—	89	195,032	360,943
Other Europe	2	9,152	16,042	29	96,929	167,659	—	—	—	31	106,081	183,701
Panama	13	51,057	64,699	11	41,552	69,803	—	—	—	24	92,609	154,502
Other Central America ¹	1	4,457	7,258	—	—	—	—	—	—	1	4,457	7,258
Middle East	1	2,796	5,012	11	28,398	51,579	—	—	—	12	31,194	56,591
Other Asia	3	13,994	23,710	12	61,144	103,453	—	—	—	15	75,138	127,163
Liberia	33	171,811	276,873	20	109,291	178,928	—	—	—	53	281,102	455,801
Other Africa	—	—	—	1	5,631	9,676	—	—	—	1	5,831	9,676
Totals	2,278	10,265,446	14,669,726	1,430	3,360,308	5,422,975	398	215,686	242,328	4,104	13,841,440	20,335,029
Downbound:												
Canada	1,695	7,760,175	10,936,254	514	1,048,874	1,444,134	87	9,889	13,938	2,296	8,818,938	12,394,326
United States	111	473,954	668,044	97	121,567	175,273	335	225,833	254,677	543	821,354	1,097,994
United Kingdom	129	472,624	774,727	134	454,966	793,167	2	554	650	265	928,144	1,568,544
Other British Commonwealth	154	711,575	973,677	24	62,452	103,913	—	—	—	178	774,027	1,077,590
Denmark	1	579	1,000	11	6,334	12,376	—	—	—	12	6,913	13,376
Finland	11	10,862	22,488	5	20,289	36,587	—	—	—	16	31,151	59,075
France	4	17,629	28,996	28	87,319	158,779	—	—	—	32	104,946	187,775
Germany	7	17,740	28,538	190	353,793	600,829	—	—	—	197	371,533	629,367
Greece	41	213,987	327,960	5	28,842	48,784	—	—	—	46	242,829	376,744
Italy	22	92,603	152,014	23	61,957	114,963	—	—	—	45	154,560	266,977
Netherlands	6	22,870	41,279	64	144,195	254,912	—	—	—	70	167,065	296,191
Norway	12	48,129	79,315	162	460,358	805,006	—	—	—	174	508,485	884,321
Sweden	3	9,005	16,354	88	188,529	350,083	—	—	—	91	197,534	366,437
Other Europe	1	4,576	8,019	31	99,952	173,853	—	—	—	32	104,538	181,872
Panama	12	49,519	81,914	11	38,761	65,441	—	—	—	23	88,280	147,355
Other Central America ¹	1	4,457	7,258	—	—	—	—	—	—	1	4,457	7,258
Middle East	—	—	—	10	26,376	48,319	—	—	—	10	26,376	48,319
Other Asia	6	27,770	47,612	11	59,113	98,692	—	—	—	17	86,883	146,304
Liberia	32	168,254	273,285	20	106,335	174,016	—	—	—	52	274,589	447,301
Other Africa	1	5,831	9,676	—	—	—	—	—	—	1	5,831	9,676
Totals	2,249	10,112,139	14,478,410	1,428	3,370,020	5,459,127	424	236,276	289,265	4,101	13,718,435	20,246,802
Grand totals	4,527	20,377,585	29,148,136	2,858	6,730,328	10,882,102	820	451,962	511,593	8,205	27,559,875	40,541,831

¹ Includes Caribbean.

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

Kind of vessel and length	Upbound			Downbound			Total		
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Cargo vessel:									
Under 80 feet	—	—	—	1	2,692	4,635	1	2,692	4,635
80 to 119 feet	8	1,412	1,802	7	1,454	1,896	13	2,866	3,698
120 " 159 "	10	17,402	24,143	8	15,082	20,016	18	32,484	44,159
160 " 199 "	15	5,230	10,172	16	5,734	11,101	31	10,964	21,273
200 " 239 "	16	13,701	24,256	21	16,055	28,134	37	29,756	52,390
240 " 279 "	798	1,060,309	1,619,728	752	985,348	1,518,715	1,550	2,045,657	3,138,443
280 " 319 "	127	175,656	291,082	126	175,613	286,012	253	351,269	577,094
320 " 359 "	235	510,776	774,608	240	515,978	792,255	475	1,026,754	1,566,863
360 " 399 "	218	467,809	781,906	212	452,617	763,038	430	920,426	1,544,944
400 " 439 "	378	1,170,518	1,784,711	367	1,139,541	1,728,267	745	2,310,059	3,512,978
440 " 479 "	430	1,653,684	2,692,277	448	1,734,218	2,823,420	878	3,387,902	5,515,697
480 " 519 "	299	1,487,487	2,178,669	289	1,436,473	2,128,699	588	2,923,960	4,307,368
520 " 559 "	133	763,283	1,057,434	135	774,435	1,075,939	268	1,537,718	2,133,373
560 " 599 "	74	478,007	693,122	73	472,777	691,173	147	950,784	1,384,295
600 " 639 "	137	1,063,001	1,518,577	143	1,107,256	1,579,449	280	2,170,257	3,098,026
640 " 679 "	105	966,735	1,330,337	100	922,948	1,268,030	205	1,889,681	2,598,367
680 " 719 "	230	2,856,743	3,777,317	224	2,787,777	3,683,793	454	5,644,520	7,461,110
Totals	3,211	12,691,753	18,560,141	3,182	12,545,996	18,404,572	6,393	25,237,749	36,964,713
Barge or Scow:									
80 to 119 feet	13	4,529	4,598	8	2,696	2,696	21	7,225	7,294
120 " 159 "	1	662	662	1	468	468	2	1,130	1,130
200 " 239 "	6	7,863	8,523	11	13,930	15,535	17	21,793	24,058
240 " 279 "	1	1,034	1,783	1	841	1,591	2	1,875	3,374
440 " 479 "	—	—	—	1	3,439	4,449	1	3,439	4,449
Totals	21	14,088	15,566	22	21,374	24,739	43	35,462	40,305
Tug and Scow:¹									
Under 80 feet	4	217	278	12	623	810	16	840	1,088
80 to 119 feet	76	10,177	13,598	76	7,301	10,537	152	17,478	24,135
120 " 159 "	6	1,145	1,332	6	1,560	2,615	14	2,705	3,947
160 " 199 "	4	1,371	1,547	4	1,372	1,598	8	2,743	3,145
200 " 239 "	272	171,486	189,978	298	188,779	208,544	570	360,265	398,522
240 " 279 "	4	2,040	2,252	2	1,440	1,604	6	3,480	3,856
400 " 439 "	2	3,962	4,286	2	3,505	4,938	4	7,467	9,226
440 " 479 "	—	—	—	2	3,367	4,519	2	3,367	4,519
480 " 519 "	2	5,000	5,347	4	7,876	10,764	6	12,876	16,111
Totals	372	195,398	216,620	406	215,823	245,929	778	411,221	464,549
Tanker:									
160 to 199 feet	3	1,947	2,652	3	1,947	2,652	6	3,894	5,304
200 " 239 "	9	10,418	12,965	3	3,402	4,326	12	13,820	17,291
240 " 279 "	200	239,898	395,673	207	248,997	409,042	407	486,895	804,715
280 " 319 "	52	66,801	99,878	51	64,794	96,648	103	131,595	196,326
320 " 359 "	30	58,775	95,997	32	61,204	100,850	62	119,979	196,847
360 " 399 "	18	45,252	74,319	22	54,233	90,442	40	99,485	164,381
400 " 439 "	2	7,180	11,286	2	7,175	11,266	4	14,355	22,572
440 " 470 "	15	58,972	99,315	12	45,977	76,958	27	104,949	176,273
480 " 519 "	12	66,070	113,361	14	78,024	134,471	26	144,094	247,832
520 " 559 "	31	209,163	342,623	30	201,670	331,692	61	410,833	674,315
560 " 599 "	20	148,369	251,492	18	133,859	227,162	38	282,228	478,654
Totals	392	912,845	1,499,361	394	899,282	1,485,129	786	1,812,127	2,984,490
Tug or dredge:									
Under 80 feet	27	1,208	2,217	31	1,173	2,217	58	2,381	4,434
80 to 119 feet	40	7,257	15,688	36	2,507	5,608	76	9,764	21,298
120 " 159 "	—	—	—	1	388	460	1	388	460
160 " 199 "	3	1,068	2,152	4	2,346	3,624	7	3,414	5,776
200 " 239 "	3	1,365	3,588	3	1,365	3,588	6	2,730	7,176
Totals	73	10,698	23,645	75	7,779	15,497	148	18,677	39,142
Other vessels:									
Under 60 feet	10	187	212	7	79	124	17	266	336
80 to 119 feet	6	1,533	1,723	13	2,190	2,557	19	3,723	4,280
120 " 159 "	11	3,871	4,379	10	3,718	4,080	21	7,589	8,439
160 " 199 "	4	2,274	2,789	4	2,167	2,958	8	4,461	5,747
280 " 319 "	4	6,593	8,593	5	10,393	10,393	9	18,986	18,986
360 " 399 "	—	—	—	1	2,614	3,844	1	2,614	3,844
400 " 439 "	—	—	—	2	7,000	7,000	2	7,000	7,000
Totals	35	16,458	17,696	42	28,181	30,936	77	44,639	48,632
Grand totals	4,104	13,841,440	20,335,029	4,101	13,718,435	20,206,802	8,205	27,559,875	40,541,831

¹ Assessed as one unit.

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

Kind of vessel and draft	Upbound			Downbound			Total		
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Cargo vessel:									
6 to 7 feet	1	806	1,042	—	—	—	1	806	1,042
8 " 9 "	—	—	—	2	1,304	1,514	2	1,304	1,514
10 " 11 "	28	24,103	36,642	29	26,900	39,660	57	51,003	76,302
12 " 13 "	104	129,326	190,970	39	34,658	52,488	143	163,984	243,458
14 " 15 "	166	277,545	387,768	134	197,194	276,494	300	474,739	664,262
16 " 17 "	326	512,235	778,259	336	467,670	705,838	662	979,905	1,484,097
18 " 19 "	481	878,070	1,339,338	483	840,728	1,302,068	964	1,718,798	2,641,406
20 " 21 "	724	2,454,702	3,464,190	725	2,465,559	3,484,334	1,449	4,920,261	6,948,524
22 " 23 "	331	1,265,148	1,873,450	347	1,329,304	1,967,203	678	2,594,452	3,840,653
24 " 25 "	512	3,231,939	4,742,537	514	3,226,855	4,745,230	1,026	6,458,794	9,487,767
26 " 27 "	344	2,900,627	4,060,443	339	2,841,719	3,985,258	683	5,742,346	8,045,711
28 " 29 "	123	574,135	962,897	132	610,973	1,025,905	255	1,185,108	1,988,802
30 feet and over	71	443,117	722,605	82	503,132	818,570	153	946,249	1,541,175
Totals	3,211	12,691,753	18,560,141	3,162	12,545,996	18,404,572	6,373	25,237,749	36,964,713
Barge or scow:									
5 feet and under	5	878	947	3	964	964	8	1,842	1,911
6 to 7 feet	3	651	651	4	868	868	7	1,519	1,519
10 " 11 "	9	7,137	8,048	7	7,532	8,199	16	14,669	16,247
12 " 13 "	1	1,666	1,666	1	1,508	1,666	2	3,174	3,332
14 " 15 "	3	3,756	4,254	5	6,222	7,002	8	9,978	11,256
18 " 19 "	—	—	—	1	841	1,591	1	841	1,591
24 " 25 "	—	—	—	1	3,439	4,449	1	3,439	4,449
Totals	21	14,088	15,566	22	21,374	24,739	43	35,462	40,305
Tug and scow:¹									
5 feet and under	16	5,100	5,794	18	3,706	4,354	34	8,806	10,148
6 to 7 feet	12	1,765	2,215	14	2,699	3,694	26	4,464	5,909
8 " 9 "	62	14,414	16,866	58	9,380	12,197	120	23,794	29,063
10 " 11 "	178	105,432	117,505	174	100,841	111,848	352	206,273	229,353
12 " 13 "	10	7,263	7,381	40	25,390	27,425	50	32,653	34,806
14 " 15 "	90	56,022	62,967	94	61,570	69,883	184	117,592	132,840
16 " 17 "	2	1,440	1,604	4	4,807	6,123	6	6,247	7,731
18 " 19 "	2	3,962	4,288	4	7,430	10,405	6	11,392	14,683
Totals	372	195,398	218,620	406	215,823	245,929	778	411,221	464,549
Tanker:									
10 to 11 feet	6	7,567	8,146	—	—	—	6	7,567	8,146
12 " 13 "	16	17,703	25,460	17	19,174	26,579	33	36,877	52,039
14 " 15 "	67	81,944	116,763	67	81,546	116,766	134	163,490	233,529
16 " 17 "	180	237,018	401,720	184	241,962	411,170	364	478,980	812,890
18 " 19 "	8	13,559	23,445	11	16,903	30,168	19	30,462	53,613
20 " 21 "	23	51,308	87,301	27	59,100	100,428	50	110,408	187,729
22 " 23 "	14	30,993	44,634	15	36,788	55,344	29	67,781	99,978
24 " 25 "	7	14,017	24,234	7	15,347	26,384	14	29,364	50,618
26 " 27 "	15	96,658	151,638	13	87,940	136,958	28	184,598	288,596
28 " 29 "	19	105,446	180,326	18	96,339	165,592	37	201,785	345,918
30 feet and over	37	256,632	435,694	35	244,183	415,740	72	500,815	851,434
Totals	392	912,845	1,499,361	394	899,282	1,485,129	786	1,812,127	2,984,490
Tug or dredge:									
5 feet and under	12	414	954	19	1,067	1,788	31	1,481	2,742
6 to 7 feet	6	231	444	5	148	281	11	379	725
8 " 9 "	16	5,047	10,771	12	551	1,016	28	5,598	11,787
10 " 11 "	29	2,806	7,318	25	3,449	7,849	54	6,255	15,167
12 " 13 "	9	2,096	3,544	12	1,646	2,948	21	3,742	6,492
16 " 17 "	1	304	614	2	918	1,615	3	1,222	2,229
Totals	73	10,898	23,645	75	7,779	15,497	148	18,677	39,142
Other vessels:									
5 feet and under	8	105	125	6	63	103	14	168	228
6 to 7 feet	5	622	817	11	1,287	1,609	16	1,909	2,426
8 " 9 "	9	4,364	4,614	8	3,695	4,014	17	8,259	8,628
10 " 11 "	2	386	552	3	682	898	5	1,068	1,450
12 " 13 "	6	1,638	2,245	5	1,497	2,325	11	3,135	4,570
14 " 15 "	1	750	750	4	7,850	7,850	5	8,600	8,600
16 " 17 "	2	3,873	3,873	1	2,073	2,073	3	5,946	5,946
18 " 19 "	2	4,720	4,720	2	4,720	4,720	4	9,440	9,440
20 " 21 "	—	—	—	2	6,114	7,344	2	6,114	7,344
Totals	35	16,458	17,696	42	28,181	30,936	77	33,639	48,632
Grand totals	4,104	13,841,440	20,335,029	4,101	13,718,435	20,206,802	8,205	27,559,875	40,541,831

¹ Assessed as one unit

TABLE 24 A. 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	Bulk	General	Total
tons									
Ports on Lake Ontario and Welland canal:									
Canada	730,620	998	731,618	856,588	196,774	1,053,362	1,587,208	197,772	1,784,980
United States	—	—	—	455	—	455	455	—	455
Totals	730,620	998	731,618	857,043	196,774	1,053,817	1,587,663	197,772	1,785,435
Ports on the St. Lawrence River:									
Canada	567,737	1,602	569,339	3,683,485	226,356	3,909,841	4,251,222	227,958	4,479,180
Ports outside the Gulf of St. Lawrence:									
Canada Atlantic ports	—	—	—	17,126	57,664	74,790	17,126	57,664	74,790
Canada Pacific ports	520	—	520	—	—	—	520	—	520
United States Atlantic ports	16,758	—	16,758	286,847	1,968	288,815	303,605	1,968	305,573
United States Hudson River ports	—	—	—	46,348	—	46,348	46,348	—	46,348
United Kingdom	—	3,943	3,943	28,007	76,702	104,709	28,007	80,645	108,652
West Indies Federation	10,315	—	10,315	13,952	2	13,954	24,267	2	24,269
Other British Commonwealth	12,284	—	12,284	303	22,143	22,446	12,587	22,143	34,730
Belgium	—	5,058	5,058	5,959	206,288	212,247	5,959	211,346	217,305
Denmark	—	—	—	438	3,301	3,737	—	436	3,737
Finland	—	—	—	26,082	4,876	30,958	26,082	4,876	30,958
France	—	288	288	25,044	46,624	71,668	25,044	46,912	71,956
Germany	1,832	2,631	4,463	7,508	70,548	78,056	9,340	73,179	82,519
Greece	—	—	—	—	357	357	—	357	357
Italy	1,037	2,747	3,784	12,232	19,892	32,124	13,269	22,639	35,908
Netherlands	—	741	741	12,580	57,096	69,676	12,580	57,837	70,417
Norway	—	3,652	3,652	5,694	15,090	20,784	5,694	18,742	24,436
Portugal	—	26	26	45	2,633	2,678	45	2,659	2,704
Sweden	—	—	—	16,528	11,989	28,515	16,528	11,989	28,515
Other Europe	11,029	261	11,290	41,320	21,126	62,446	52,349	21,387	73,736
Other Central America and Caribbean	—	—	—	21,836	—	21,836	21,836	—	21,836
South America	10,896	—	10,896	26,424	2,635	29,059	37,320	2,635	39,955
Middle East	—	—	—	—	841	841	—	—	841
Other Asia	—	—	—	3,765	47,206	50,971	3,765	47,206	50,971
Other Africa	—	—	—	8,632	121	8,753	8,632	121	8,753
Totals	64,671	19,347	84,018	606,666	669,102	1,275,768	671,337	688,449	1,359,786
In transit	—	—	—	—	—	—	20,251	—	20,251
Grand totals	1,383,028	21,947	1,384,975	5,147,194	1,092,232	6,239,426	6,530,473	1,114,179	7,644,652

TABLE 24 B. 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	Bulk	General	Total
tons									
Ports on Lake Ontario and Welland canal:									
Canada	2,665,616	—	2,665,616	7,610,176	1,004	7,611,180	10,275,792	1,004	10,276,796
United States	3,434	—	3,434	316,921	—	316,921	320,355	—	320,355
Totals	2,669,050	—	2,669,050	7,927,097	1,004	7,928,101	10,596,147	1,004	10,597,151
Ports on the St. Lawrence river:									
Canada	4,817,454	—	4,817,454	2,549,354	6,370	2,555,724	7,366,808	6,370	7,373,178
United States	—	—	—	66,762	—	66,762	66,762	—	66,762
Totals	4,817,454	—	4,817,454	2,616,116	6,370	2,622,486	7,433,570	6,370	7,439,940
Ports outside the Gulf of St. Lawrence:									
Canada Atlantic ports	168,458	—	168,458	—	24	24	168,458	24	168,482
United States Atlantic ports	4,590	4,204	8,794	183,950	—	183,950	188,540	4,204	192,744
United States Hudson River ports	—	—	—	118,522	—	118,522	118,522	—	118,522
United Kingdom	294,739	7,866	302,605	331,091	77,363	408,454	625,830	85,229	711,059
West Indies Federation	6,929	—	6,929	8,005	834	8,839	14,934	834	15,768
Other British Commonwealth	301	10,904	11,205	23,149	85,673	108,822	23,450	96,577	120,027
Belgium	66,983	52,876	119,859	357,353	21,745	379,098	424,336	74,621	498,957
Denmark	—	—	—	39,816	2,413	42,229	39,816	2,413	42,229
Finland	—	31	31	1,866	1,581	3,447	1,866	1,612	3,478
France	4,787	8,444	13,231	130,919	22,486	153,405	135,706	30,930	166,636
Germany	29,674	10,644	40,318	251,677	45,075	296,752	281,351	55,719	337,070
Greece	—	—	—	11,551	2,887	14,438	11,551	2,887	14,438
Italy	53,032	3,708	56,740	340,212	32,629	372,841	393,244	36,337	429,581
Netherlands	71,857	12,613	84,470	1,125,284	105,913	1,231,197	1,197,141	118,526	1,315,667
Norway	14,609	133	14,742	81,085	4,649	85,734	95,694	4,782	100,476
Portugal	—	4	4	207	5,335	5,542	207	5,339	5,546
Sweden	—	894	894	44,415	20,647	65,062	44,415	21,541	65,956
Other Europe	51,902	3,959	55,861	159,797	29,258	189,055	211,699	33,217	244,916
Other Central America and Caribbean	95	3,148	3,243	9,172	2,472	11,644	9,267	5,620	14,887
South America	2,342	19,264	21,606	185,634	15,095	200,729	187,976	34,359	222,335
Middle East	6,002	1,490	7,492	117,916	51,572	169,488	123,918	53,062	176,980
Other Asia	38,857	2,291	41,148	526,339	45,299	571,638	565,196	47,590	612,786
Other Africa	2,736	—	2,736	114,574	8,157	122,731	117,310	8,157	125,467
Totals	817,893	142,473	960,366	4,162,534	581,107	4,743,641	4,980,427	723,580	5,704,007
In Transit	—	—	—	—	—	—	18,620	—	18,620
Grand totals	8,304,397	142,473	8,446,870	14,705,747	588,481	15,294,228	23,028,764	730,954	23,759,718

¹ Due to an error in tabulation the total tonnage of bulk cargo should be reduced by 5,369 tons and the total general cargo increased accordingly.

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	943,008	189,165	1,132,173
	United States	118,624	8,607	127,231
	United Kingdom	895	—	895
	Other British Commonwealth	524,555	—	524,555
	Italy	242	—	242
	Norway	339	—	339
	Totals	1,587,663	197,772	1,785,435
Ports on the St. Lawrence river	Canada	3,731,916	225,318	3,957,234
	United States	135,235	—	135,235
	United Kingdom	206,640	175	206,815
	Other British Commonwealth	166,059	—	166,059
	Germany	10,920	—	10,920
	Italy	—	1,546	1,546
	Norway	449	917	1,366
	Sweden	3	2	5
Totals	4,251,222	227,958	4,479,180	
Ports outside the Gulf of St. Lawrence	Canada	3,886	1,953	5,839
	United States	260,224	12,207	272,431
	United Kingdom	93,791	127,128	220,919
	Denmark	5,728	—	5,728
	Finland	6,196	17,481	23,677
	France	7,266	29,948	37,216
	Germany	22,924	244,159	267,083
	Greece	30,578	5,216	35,792
	Italy	30,459	18,835	47,094
	Netherlands	19,009	96,620	115,629
	Norway	132,388	66,189	198,577
	Sweden	44,638	31,797	76,435
	Other Europe	4,543	1,859	6,402
	Panama	536	2,179	2,715
	Middle East	407	6,150	6,557
	Other Asia	315	28,028	29,243
	Liberia	8,849	—	8,849
Totals	671,337¹	688,449	1,359,786	
In transit	20,251	—	20,251	
Grand totals	6,530,473	1,114,179	7,644,652	

TABLE 23 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	9,128,337	973	9,129,310
	United States	631,335	30	631,365
	United Kingdom	170,007	—	170,007
	Other British Commonwealth	666,468	—	666,468
	Germany	—	1	1
	Totals	10,596,147	1,004	10,597,151
Ports on the St. Lawrence river	Canada	6,717,482	6,350	6,723,832
	United States	144,958	—	144,958
	United Kingdom	312,426	3	312,429
	Other British Commonwealth	258,704	—	258,704
	Netherlands	—	1	1
	Sweden	—	12	12
	Middle East	—	4	4
Totals	7,433,570	6,370	7,439,940	
Ports outside the Gulf of St. Lawrence	Canada	81,295	—	81,295
	United States	415,921	61,423	477,344
	United Kingdom	1,039,563	75,906	1,115,469
	Other British Commonwealth	44,105	8,302	52,407
	Denmark	16,418	1,779	18,197
	Finland	50,523	6,323	56,846
	France	164,472	16,681	181,153
	Germany	465,650	143,424	609,274
	Greece	410,780	22,412	433,192
	Italy	256,721	27,497	284,218
	Netherlands	148,295	83,937	232,232
	Norway	613,953	79,670	693,623
	Sweden	200,499	75,753	276,252
	Other Europe	141,634	34,249	175,883
	Panama	180,174	2,228	182,402
	Other Central America and Caribbean	9,281	—	9,281
	Middle East	22,332	32,981	55,313
	Other Asia	48,835	17,959	66,794
	Liberia	467,272	31,176	498,448
Other Africa	2,504	1,880	4,384	
Totals	4,980,427	723,580	5,704,007	
In transit	18,620	—	18,620	
Grand totals	23,028,764	730,954	23,759,718	

¹ Due to an error in tabulation the total tonnage of bulk cargo should be reduced by 5,369 tons and the total general cargo increased accordingly.

TABLE 28. 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						
	Number of vessels			Cargo tons			Average cargo tons per vessel	Number of vessels			Cargo tons			Average cargo tons per vessel
	In ballast	With cargo	Total	Bulk	General	Total		In ballast	With cargo	Total	Bulk	General	Total	
Cargo vessel:														
Under 1,000 gross tons	4	29	33	16,129	2,708	18,837	649.6	10	25	35	12,081	2,788	14,869	594.8
1,000 to 1,999	199	240	439	199,323	130,552	329,875	1,374.5	15	423	438	802,362	107,777	910,139	2,151.6
2,000 " 2,999	184	430	614	418,772	483,863	902,635	2,099.2	52	525	577	1,346,620	150,969	1,497,589	2,852.8
3,000 " 3,999	133	174	307	377,986	178,700	556,686	3,199.3	18	276	294	1,304,730	46,299	1,351,029	4,895.0
4,000 " 4,999	251	156	407	496,322	91,694	588,016	3,769.3	60	349	409	2,181,696	69,515	2,251,211	6,450.5
5,000 " 5,999	121	96	217	258,721	32,649	291,370	3,035.1	1	215	216	1,260,313	81,927	1,342,240	6,243.0
6,000 " 6,999	137	96	233	508,485	33,084	541,569	5,641.3	20	207	227	1,421,258	47,210	1,468,468	7,094.0
7,000 " 7,999	200	76	276	373,122	73,416	446,538	5,875.5	6	268	274	2,220,445	94,030	2,314,475	8,636.1
8,000 " 8,999	76	25	101	74,350	39,050	113,400	4,536.0	1	105	106	938,911	68,770	1,007,681	9,597.0
9,000 " 9,999	57	36	93	188,977	33,217	222,194	6,172.1	3	94	97	892,645	50,351	942,996	10,031.9
10,000 " 10,999	23	18	41	92,035	8,278	100,313	5,567.4	3	39	42	473,209	6,003	479,212	12,287.5
11,000 " 11,999	67	12	79	136,725	2,702	139,427	11,618.9	—	80	80	1,309,387	—	1,309,387	16,367.3
12,000 " 12,999	86	20	106	366,040	—	366,040	18,302.0	2	106	108	1,843,599	—	1,843,599	17,392.4
13,000 " 13,999	29	16	45	344,117	—	344,117	21,507.3	—	43	43	605,788	—	605,788	18,739.3
14,000 " 14,999	—	9	9	131,322	—	131,322	14,591.3	—	9	9	131,448	—	131,448	14,605.3
15,000 " 15,999	41	8	49	179,372	—	179,372	22,421.5	—	49	49	1,059,133	—	1,059,133	21,615.0
16,000 " 16,999	38	1	39	24,730	—	24,730	24,730.0	3	33	36	771,234	—	771,234	23,370.7
17,000 and over	74	49	123	1,267,108	—	1,267,108	25,859.3	15	107	122	2,664,135	—	2,664,135	24,898.5
Totals	1,720	1,491	3,211	5,453,636	1,109,913	6,563,549	4,402.1	209	2,953	3,162	21,438,994	725,639	22,164,633	7,505.8
Barge or Scow:														
Under 1,000 gross tons	13	1	14	—	1,023	1,023	1,023.0	7	2	9	—	1,924	1,924	962.0
1,000 to 1,999	4	3	7	6,456	—	6,456	2,152.0	1	11	12	24,735	392	25,127	2,284.3
4,000 " 4,999	—	—	—	—	—	—	—	—	1	1	4,603	689	5,292	5,292.0
Totals	17	4	21	6,456	1,023	7,479	1,869.8	8	14	22	29,338	3,005	32,343	2,310.2
Tug and scow:¹														
Under 1,000 gross tons	86	4	90	213	1,058	1,271	317.8	84	12	96	2,890	2,280	5,170	430.8
1,000 to 1,999	120	158	278	168,592	2,185	170,777	1,080.9	20	282	302	327,373	30	327,403	1,161.0
4,000 " 4,999	2	—	2	—	—	—	—	—	4	4	10,307	—	10,307	2,576.8
5,000 " 5,999	2	—	2	—	—	—	—	—	4	4	10,947	—	10,947	2,736.8
Totals	210	162	372	168,805	3,243	172,048	1,062.0	104	302	406	351,517	2,310	353,827	1,171.6
Tanker:														
Under 1,000 gross tons	3	—	3	—	—	—	—	—	3	3	4,224	—	4,224	1,408.0
1,000 to 1,999	75	107	182	291,281	—	291,281	2,722.3	62	122	184	342,614	—	342,614	2,808.3
2,000 " 2,999	24	55	79	179,183	—	179,183	3,257.9	44	33	77	106,858	—	106,858	3,238.1
3,000 " 3,999	8	23	31	95,816	—	95,816	4,165.9	17	18	35	74,141	—	74,141	4,118.9
4,000 " 4,999	3	15	18	85,893	—	85,893	5,726.2	18	2	20	12,098	—	12,098	6,049.0
5,000 " 5,999	7	—	7	—	—	—	—	—	7	7	58,393	—	58,393	8,341.9
6,000 " 6,999	—	2	2	2,673	—	2,673	1,436.5	—	1	1	13,160	—	13,160	13,160.0
7,000 " 7,999	1	2	3	20,867	—	20,867	10,433.5	—	2	2	18,654	—	18,654	9,327.0
8,000 " 8,999	1	4	5	11,637	—	11,637	2,909.3	—	4	4	39,247	—	39,247	9,811.8
9,000 " 9,999	2	5	7	46,413	—	46,413	9,282.6	5	2	7	21,278	—	21,278	10,639.0
10,000 " 10,999	12	14	26	154,124	—	154,124	11,008.9	12	16	28	190,017	—	190,017	11,876.1
11,000 " 11,999	8	—	8	—	—	—	—	—	7	7	86,005	—	86,005	12,286.4
12,000 " 12,999	19	1	20	13,489	—	13,489	13,489.0	—	18	18	228,537	—	228,537	12,696.5
13,000 " 13,999	1	—	1	—	—	—	—	—	1	1	13,689	—	13,689	13,689.0
Totals	164	228	392	901,578	—	901,578	3,954.3	156	236	394	1,208,915	—	1,208,915	5,122.5
Other vessels:														
Under 1,000 gross tons	100	—	100	—	—	—	—	104	—	104	—	—	—	—
1,000 to 1,999	4	—	4	—	—	—	—	7	—	7	—	—	—	—
2,000 " 2,999	3	—	3	—	—	—	—	3	—	3	—	—	—	—
3,000 " 3,999	—	—	—	—	—	—	—	3	—	3	—	—	—	—
9,000 " 9,999	1	—	1	—	—	—	—	—	—	—	—	—	—	—
Totals	108	—	108	—	—	—	—	117	—	117	—	—	—	—
Grand totals	2,219	1,885	4,104	6,530,473²	1,114,179	7,644,652	4,055.5	596	3,505	4,101	23,028,764	730,954	23,759,718	8,778.8

¹ Assessed as one unit.² Due to an error in tabulation the total tonnage of bulk cargo should be reduced by 5,369 tons and the total general cargo increased accordingly.

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

No.	Commodity	Canada to		United States to		United Kingdom to	
		Canada	United States	Canada	United States	Canada	United States
		tons					
	Food, feed, beverages and tobacco:						
1	Fish and marine animals	—	5,069	—	—	—	38
2	Barley	—	28,487	—	—	—	1,434
3	Wheat	22,419	—	—	—	—	—
4	Cereals, milled, n.e.s.	—	—	—	—	—	27
5	Fruits and fruit preparations	—	—	—	—	—	539
6	Sugar	—	—	—	44,337	—	—
7	Molasses, crude and refined	—	—	—	37,351	—	—
8	Sugar preparations (incl. confectionery)	—	—	—	6,327	51	1,031
9	Ale, beer and wines	—	—	—	—	39	364
10	Distilled alcoholic beverages	—	—	—	—	318	22,098
11	Food, feed, beverages and tobacco, n.e.s.	158	580	—	242	27	1,675
12	Totals	22,577	34,136	—	88,257	435	27,206
	Crude materials, inedible:						
13	Crude animal products, inedible (ex. fibres)	—	—	—	—	—	125
14	Rubber, natural	—	—	—	—	—	—
15	Pulpwood	82,132	53,534	—	—	—	—
16	Aluminum ore and concentrates	—	—	—	—	—	—
17	Iron ore	28,652	3,618,013	—	—	—	—
18	Metallic ores and concentrates, n.e.s.	—	—	—	—	—	—
19	Coal, bituminous	102,159	4,700	—	—	—	—
20	Crude petroleum	—	441	—	11,230	—	—
21	Clay and bentonite	—	4,055	—	—	—	23,440
22	Sand and gravel	33,576	—	—	—	—	—
23	Limestone	—	69,594	—	—	—	—
24	Stone, crushed and broken	21,829	647,598	—	—	—	—
25	Sulphur	—	15,369	—	34,514	—	—
26	Non-metallic minerals, crude, n.e.s.	—	8,772	5,071	30,532	—	1,474
27	Crude materials, inedible, n.e.s.	—	2,189	—	—	21	1,189
28	Totals	268,348	4,424,265	5,071	76,276	21	26,228
	Fabricated materials, inedible:						
29	Wood fabricated materials	520	—	—	—	—	32
30	Woodpulp	1,484	6,643	—	—	—	—
31	Newsprint paper	—	469,168	—	1,968	—	—
32	Paper and paperboard, n.e.s.	—	—	—	7,635	17	64
33	Cordage, twine and rope	—	—	—	—	328	364
34	Fish and animal oils	—	535	—	2,240	—	—
35	Vegetable oils and fats, n.e.s.	—	—	—	—	—	620
36	Chemicals	5,505	3,265	11,687	15,729	277	1,211
37	Fertilizers	3,000	—	—	—	—	—
38	Chemical products, n.e.s.	6,793	—	—	9,310	3	1,767
39	Gasoline	235,358	—	—	17,839	—	—
40	Fuel oil	377,354	9,425	—	40,058	—	—
41	Lubricating oils and greases	91,822	—	—	65,419	—	31
42	Tar, pitch and creosote	—	5,792	—	9,574	—	80
43	Ferro-alloys	—	—	—	—	—	—
44	Pig iron	—	76,561	—	—	—	—
45	Iron and steel: ingot, bar, rod, etc.	—	—	—	1,100	27	3,821
46	Steel: plate, sheet and strip	—	—	—	—	—	906
47	Structural shapes and sheet piling	—	—	—	—	625	1,804
48	Iron and steel: pipes, tubes and fittings	—	—	—	—	85	4,889
49	Iron and steel: wire and wire rope	—	—	—	—	78	4,300
50	Iron and steel, n.e.s.	262	—	—	—	15	270
51	Aluminum: bar, ingot, pig and slab	—	3,080	—	—	—	—
52	Non-ferrous metals and alloys, n.e.s.	—	—	—	—	78	2,000
53	Metal fabricated basic products, n.e.s.	—	—	—	—	28	591
54	Glass: plate, sheet and structural	—	—	—	—	34	5,902
55	Cement	17,382	—	—	—	—	72
56	Miscellaneous fabricated materials, n.e.s.	—	482	—	—	213	875
57	Totals	739,480	574,951	11,687	170,872	1,808	29,580
	End products, inedible:						
58	Machinery, equipment and parts	—	187	—	—	703	5,065
59	Motor vehicles and parts	—	7	—	—	218	6,520
60	End products, inedible, n.e.s.	—	—	—	—	22	1,144
61	Totals	—	194	—	—	943	12,729
62	Miscellaneous freight, n.e.s.	19,131	4,447	—	213	736	8,966
63	Domestic package freight	251,941	—	—	—	—	—
64	In transit freight	—	—	—	—	—	—
65	Grand totals	1,301,477	5,037,993	16,756	335,618	3,943	104,709

TABLE 27 A. 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					
			4,286		2,995		12,388	12,388	1
			18,232				48,153	48,153	2
						22,419		22,419	3
	1,871		42		11,206		13,146	13,146	4
	531	425	14,968		4,736	425	20,774	21,199	5
3,696			1,662	4,131	5,423	7,827	51,422	59,249	6
	13,952		34		30,843		82,180	82,180	7
		1	694			52	8,052	8,104	8
		153	26,485		338	192	27,187	27,379	9
			1,276			9	318	23,703	10
	657	441	10,252		2,009	626	15,415	16,041	11
3,696	17,013	1,020	77,931	4,131	37,559	31,859	302,102	333,961	12
			4,258		649		5,032	5,032	13
	11,212						11,212	11,212	14
18,903				6,765	17,322	82,132	53,534	135,666	15
		336				25,668	17,322	42,990	16
			5,949			28,988	3,618,013	3,647,001	17
							5,949	5,949	18
						102,159	4,700	106,859	19
							11,671	11,671	20
			7				27,502	27,502	21
			1,331		6	33,576	1,337	34,913	22
			298				69,892	69,892	23
		701	5,479			22,530	653,077	675,607	24
							49,883	49,883	25
			28,106		3,516	5,071	72,400	77,471	26
	145	21	4,354		3,909	42	11,786	11,828	27
18,903	11,357	1,058	49,782	6,765	25,402	300,166	4,613,310	4,913,476	28
			2,977		5,503	532	9,100	9,632	29
	588	12	40,260			1,484	46,903	48,387	30
							471,136	471,136	31
			9,222		1,020	17	17,942	17,959	32
		1,736	9,820		10	2,064	10,194	12,258	33
			7,121		2,456		12,352	12,352	34
			11,289		11		11,920	11,920	35
		12,976	20,798		330	30,445	41,333	71,778	36
			1,547			3,000	1,547	4,547	37
		432	4,262		85	7,228	15,424	22,652	38
						235,358	17,839	253,197	39
						377,354	49,483	426,837	40
						91,822	65,450	157,272	41
							15,426	15,426	42
		253	12,582		1,104	253	13,686	13,939	43
			7				76,568	76,568	44
		203	74,033		3,876	230	82,830	83,060	45
	1,019	283	2,935		93	283	4,953	5,236	46
		5,299	125,287			5,924	127,091	133,015	47
		118	10,256		252	203	15,397	15,600	48
		402	40,111		2,693	480	47,104	47,584	49
		986	6,585		56	1,263	6,911	8,174	50
			7,046				10,126	10,126	51
	6,254	3,657	4,542		340	3,735	13,136	16,871	52
		124	7,398		5,159	152	13,148	13,300	53
		237	31,536			271	37,438	37,709	54
			1,341			17,382	1,413	18,795	55
		63	2,506		1,156	276	5,021	5,297	56
	7,861	26,781	433,461		24,146	779,736	1,240,871	2,020,627	57
		145	4,578		66	848	9,896	10,744	58
			22,336			218	28,863	29,061	59
	5	162	1,917		147	184	3,213	3,397	60
	5	307	28,831		213	1,250	41,972	43,222	61
	164	136	23,241		4,140	20,003	41,171	61,174	62
						251,941		251,941	63
								20,251	64
22,599	36,400	29,302	613,246	10,896	111,460	1,384,975	6,239,426	7,644,652	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	Milk powder	—	—	—	—	—	173	
3	Barley	524,500	3,434	34,917	—	—	562,851	
4	Corn	17,013	—	—	—	2,912	19,925	
5	Oats	229,475	—	113	—	353	229,998	
6	Rye	65,822	—	—	—	16,192	82,014	
7	Wheat	5,530,523	—	170,569	—	165,776	5,869,077	
8	Cereals, unmilled, n.e.s.	9,573	—	2,296	—	—	11,869	
9	Corn meal	—	—	—	—	—	—	
10	Malt	52,615	—	—	—	—	52,615	
11	Flour, wheat	29,595	—	11,746	3,808	—	48,311	
12	Grain, flour, meal and cereals, n.e.s.	2,927	—	—	—	—	2,927	
13	Beans and peas, dried	11,102	—	2,478	—	—	13,580	
14	Molasses, crude and refined	4,224	2,150	—	—	—	6,374	
15	Margarine, shortening and lard	—	—	—	—	—	—	
16	Fodder and feeds	46,954	—	14,083	62	56	61,155	
17	Soyabean oil cake and meal	—	—	910	—	—	910	
18	Foods, beverages, tobacco, n.e.s.	—	—	73	—	496	577	
19	Totals	6,524,323	5,584	237,185	3,870	185,785	6,962,356	
	Crude materials, inedible:							
20	Raw hides and skins	—	—	—	—	—	—	
21	Flaxseed	169,443	—	37,895	—	7,033	214,371	
22	Soyabeans	75,409	—	—	—	—	75,409	
23	Pulpwood	98,926	—	—	—	—	98,926	
24	Iron ore	—	—	—	—	—	—	
25	Zinc ore and concentrates	14,038	—	—	—	39,988	54,026	
26	Metallic ores and concentrates, n.e.s.	—	—	—	—	14,588	14,588	
27	Iron and steel scrap	2,100	—	—	—	15,087	36,633	
28	Non-ferrous metal scrap	—	—	—	—	—	—	
29	Coal, bituminous	—	—	—	—	—	—	
30	Clay and bentonite	—	—	—	—	—	—	
31	Sand and gravel	12,052	—	—	—	—	12,052	
32	Limestone	—	—	—	—	—	—	
33	Salt	174,791	—	—	—	—	174,791	
34	Sulphur	—	—	—	—	—	—	
35	Crude materials, inedible, n.e.s.	4,723	—	438	—	406	9,369	
36	Totals	551,482	—	38,333	—	77,102	690,156	
	Fabricated materials, inedible:							
37	Fish and animal oils	—	—	—	—	—	—	
38	Soyabean oil	—	—	—	—	—	—	
39	Oils, fats, waxes, n.e.s.	—	—	—	—	—	—	
40	Sodium products	—	2,440	—	—	—	2,440	
41	Chemicals, n.e.s.	37,014	—	12,353	455	1,959	51,781	
42	Rubber, synthetic and reclaimed	—	—	6,066	2,769	28,066	39,192	
43	Chemicals products, n.e.s.	27,109	—	2,171	2,454	3,946	37,634	
44	Gasoline	22,808	—	—	—	—	22,808	
45	Fuel oil	179,581	—	—	—	—	179,581	
46	Lubricating oils and greases	24,088	—	2	—	—	24,090	
47	Coke	—	—	3,964	—	18,766	22,730	
48	Asphalt	—	—	—	—	—	—	
49	Tar, pitch and creosote	39,789	—	—	—	—	39,789	
50	Petroleum and coal products, n.e.s.	580	—	—	—	17	597	
51	Pig iron	46,291	—	—	—	12,354	78,056	
52	Iron and steel: ingot, billet, rod, etc.	2,247	—	—	3,360	10,727	23,364	
53	Steel: plate, sheet and strip	—	—	—	—	110	110	
54	Structural shapes and sheet piling	4,463	—	7	—	39,112	52,740	
55	Iron and steel: pipes, tubes and fittings	—	—	—	—	—	917	
56	Iron and steel, n.e.s.	—	—	—	—	7,300	12,457	
57	Non-ferrous metals and alloys	—	—	61	—	98	159	
58	Cement	160	—	—	—	—	160	
59	Miscellaneous fabricated materials, n.e.s.	—	4,204	2,197	5,226	593	13,679	
60	Totals	384,130	6,644	26,821	14,264	123,048	602,284	
	End products, inedible:							
61	Machinery, equipment and parts	45	—	2	—	48	95	
62	Motor vehicles and parts	—	—	—	—	—	—	
63	End products, inedible, n.e.s.	—	—	—	—	132	132	
64	Totals	45	—	2	—	180	227	
65	Miscellaneous freight, n.e.s.	808	—	264	—	35	1,107	
66	Domestic package freight	190,740	—	—	—	—	190,740	
67	In transit freight	—	—	—	—	—	—	
68	Grand totals	7,651,528	12,228	302,605	18,134	386,150	8,446,870	

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

United States to							Grand total	No.
Canada	United States	United Kingdom	Other British Commonwealth	Other Europe	Other Countries	Total		
				tons				
—	—	6,399	863	21,461	123	28,846	28,846	1
—	—	—	32,270	33,322	45,375	110,967	111,140	2
69,894	10,152	—	—	179,729	13,217	272,992	835,843	3
996,330	19,115	218,740	—	549,940	7,439	1,791,564	1,811,489	4
27,450	—	—	—	81,196	—	108,646	338,644	5
15,204	—	—	—	49,353	9,352	73,909	155,923	6
582,848	42,482	24,904	7,980	365,749	279,203	1,303,166	7,172,243	7
—	—	56	—	—	4,362	4,418	16,287	8
—	—	25	5,575	4,507	54,544	64,651	64,651	9
—	—	—	—	—	—	—	52,615	10
—	—	515	12,388	76,619	101,629	191,151	239,462	11
—	—	3,099	—	2,279	—	6,286	9,213	12
20,976	—	25,828	3,408	2,717	3,630	56,559	70,139	13
—	4,398	—	—	—	—	4,398	10,772	14
—	—	67,754	206	5,619	135	73,714	73,714	15
1	—	3,134	185	27,738	334	31,392	92,547	16
14,515	2,426	—	—	6,522	51	23,514	24,424	17
1	—	2,006	75	11,077	752	13,911	14,488	18
1,727,219	78,573	352,460	62,950	1,417,828	521,054	4,160,084	11,122,440	19
—	—	997	—	29,892	3,527	34,416	34,416	20
23,139	—	—	—	51,428	—	74,567	288,938	21
547,572	7,545	3,434	—	202,204	2,609	763,364	838,773	22
2,221	—	—	—	11	—	2,232	101,158	23
3,099,259	—	—	—	164	—	3,099,423	3,099,423	24
—	—	—	—	—	—	—	54,026	25
—	—	5	—	1,878	—	1,883	16,471	26
95,130	—	182	789	768,210	449,554	1,313,885	1,350,498	27
—	—	1,879	564	14,571	6,231	23,245	23,245	28
4,231,290	1,800	—	—	—	—	4,233,090	4,233,090	29
25,725	—	10,227	1,202	4,263	38	41,455	41,455	30
50,112	—	11	—	4	—	50,127	62,179	31
20,736	—	—	—	—	—	20,736	20,736	32
32,187	—	—	—	3	—	32,190	206,981	33
30,281	—	—	—	—	—	30,281	30,281	34
11,423	11,948	5,503	411	33,817	4,617	67,719	77,079	35
8,169,075	21,293	22,238	2,966	1,106,445	466,576	9,788,593	10,478,749	36
—	—	1,909	—	58,244	2,652	62,805	62,805	37
—	30,453	—	—	4,294	83	34,830	34,830	38
8,466	11,185	705	—	19,341	1,679	41,376	41,376	39
—	98,708	1	95	298	209	99,311	101,751	40
18,621	19,188	1,200	9	13,316	538	52,872	104,653	41
—	—	847	436	3,040	110	4,433	43,625	42
1	10,255	4,295	686	27,223	1,074	43,534	81,188	43
—	40,790	—	—	—	—	40,790	83,598	44
37,202	220,698	85	—	313	—	258,298	437,879	45
8,554	2,415	619	469	6,722	428	19,207	43,297	46
109,810	—	269	—	12,173	—	122,252	144,982	47
2,329	14,027	782	34	862	—	18,034	18,034	48
21,449	32,799	158	124	69	—	54,599	94,368	49
3,113	3,128	2,476	279	2,361	73	11,430	12,027	50
42,970	—	—	137	33,981	22,729	99,817	177,873	51
2,473	—	76	2,336	3,134	2,426	10,445	33,809	52
—	—	265	30,404	1,350	8,875	40,894	41,004	53
—	—	35	1,916	16,217	560	18,728	71,468	54
—	—	48	1,848	2,052	5,661	9,609	10,526	55
—	800	227	114	512	5,371	7,024	19,481	56
—	—	1,114	7,263	5,910	3,786	18,073	18,232	57
—	101,843	—	25	125	—	101,993	102,153	58
10,736	—	3,491	598	9,934	1,060	25,819	39,498	59
265,724	586,289	18,602	46,773	221,471	57,314	1,196,173	1,798,457	60
20	—	8,494	1,715	43,723	7,718	61,870	61,785	61
310	—	394	1,746	13,807	17,722	33,979	33,979	62
—	—	2,863	1,029	19,225	4,311	27,428	27,560	63
330	—	11,751	4,490	76,755	29,751	123,077	123,304	64
4,580	—	3,403	482	18,301	1,535	26,301	27,408	65
—	—	—	—	—	—	—	190,740	66
—	—	—	—	—	—	—	18,620	67
10,166,928	686,155	406,454	117,661	2,838,800	1,076,230	15,294,228	23,759,718	68

SAULT STE. MARIE CANAL

TABLE 28. Location and Description

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

TABLE 29. Historical Summary, 1952 - 61

Registry of vessel	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961
Vessel Transits										
Upbound:										
Canada	1,954	2,054	1,673	1,766	1,913	1,607	1,295	1,111	1,331	1,150
United States	524	677	601	765	700	138	105	233	113	121
United Kingdom .....	..	..	..	—	1	—	6	13	40	50
Other foreign	21	36	11	8	9	4	41	15	46	31
Totals	2,499	2,767	2,285	2,539	2,623	1,749	1,447	1,372	1,530	1,352
Downbound:										
Canada	1,661	1,927	1,457	1,587	1,655	1,186	1,033	914	1,055	882
United States	520	417	598	774	712	720	918	2,126	2,232	1,215
United Kingdom .....	..	..	..	—	1	—	4	11	21	18
Other foreign	21	36	9	8	9	4	40	5	17	6
Totals	2,202	2,380	2,064	2,369	2,377	1,910	1,995	3,056	3,325	2,121
Grand totals	4,701	5,147	4,349	4,908	5,000	3,859	3,442	4,428	4,855	3,473
Registered net ton*										
Upbound:										
Canada	2,496,662	2,899,508	2,145,449	2,019,797	2,566,237	1,944,257	1,572,412	1,380,730	1,815,064	1,733,304
United States	410,830	742,064	262,668	392,277	372,726	332,883	109,314	132,294	116,627	156,698
United Kingdom .....	..	..	..	—	727	—	3,756	10,857	90,719	140,819
Other foreign	17,529	31,112	8,086	6,612	8,655	2,934	31,963	17,805	111,846	87,769
Totals	2,925,021	3,672,684	2,416,203	2,418,686	2,948,345	2,280,074	1,717,445	1,541,686	2,134,256	2,118,590
Downbound:										
Canada	1,643,048	1,768,797	1,493,027	1,396,128	1,807,982	1,097,372	819,918	811,597	1,035,640	890,089
United States	288,986	206,320	178,867	298,362	308,720	320,512	281,689	321,962	314,074	184,050
United Kingdom .....	..	..	..	—	727	—	2,107	8,487	21,222	17,125
Other foreign	17,529	33,646	5,814	6,582	8,685	2,934	31,001	4,040	20,059	10,363
Totals	1,949,563	2,008,763	1,677,708	1,701,072	2,126,114	1,420,818	1,134,715	1,146,086	1,390,995	1,101,627
Grand totals	4,874,584	5,681,447	4,093,911	4,119,758	5,074,459	3,700,892	2,852,160	2,687,772	3,525,251	3,220,217
Cargo tons										
Upbound:										
Canada .....	..	..	..	641,701	683,604	571,437	327,050	383,755	600,864	429,458
United States .....	..	..	..	68,210	67,797	52,642	12,537	47,507	114,753	25,774
United Kingdom .....	..	..	..	—	—	—	—	185	6,794	9,981
Other foreign .....	..	..	..	4,043	6,904	2,571	7,582	6,249	5,245	2,561
Totals	1,113,893	1,009,664	845,990	713,954	758,305	626,650	347,169	437,696	727,656	467,774
Downbound:										
Canada .....	..	..	..	1,461,155	2,204,837	1,151,155	821,218	770,182	963,511	655,884
United States .....	..	..	..	21,408	17,616	2,485	6,682	15,113	8,533	4,810
United Kingdom .....	..	..	..	—	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
Totals	2,181,530	2,379,745	1,761,978	1,487,121	2,230,973	1,158,050	881,492	794,998	992,966	673,176
Grand totals	3,295,423	3,389,409	2,607,968	2,201,075	2,989,278	1,784,700	1,228,661	1,232,694	1,720,622	1,140,950
Season of navigation										
First vessel passage	April 2	March 29	April 10	April 11	April 5	April 5	April 8	April 13	April 4	April 11
Last vessel passage	Dec. 13	Dec. 15	Dec. 11	Dec. 12	Dec. 12	Dec. 12	Dec. 11	Dec. 12	Dec. 12	Dec. 12

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

Kind of vessel	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
Upbound:							
Cargo	525	147	672	1,641,298	2,402,921	202,836	249
Passenger-cargo	81	28	109	161,318	239,613	6,636	11,715
Cargo-passenger	12	6	18	19,293	39,848	1,230	139
Scow, barge, etc.	121	20	141	117,050	119,997	12,134	—
Tug and scow ¹	12	—	12	5,932	6,842	—	—
Tanker	27	76	103	146,860	226,646	244,938	—
Tug or dredge	270	—	270	18,833	36,267	—	—
Naval or Government ..	24	—	24	7,888	8,728	—	6
All other types	3	—	3	118	195	—	—
Totals	1,075	277	1,352	2,118,590	3,081,057	467,774	12,109
Downbound:							
Cargo	59	254	313	468,588	713,793	457,904	427
Passenger-cargo	1,158	53	1,211	262,848	385,146	89,712	138,786
Cargo-passenger	8	2	10	5,332	13,970	144	5
Scow, barge etc.	47	79	126	78,841	80,220	59,147	—
Tug and scow ¹	6	—	6	1,560	2,615	—	—
Tanker	129	23	152	261,133	393,461	64,871	—
Tug or dredge	254	2	256	14,448	29,875	1,398	—
Naval or Government ..	16	—	16	7,468	7,734	—	—
All other types	31	—	31	1,409	2,053	—	1,557
Totals	1,708	413	2,121	1,101,627	1,628,867	673,176	140,775
Grand totals	2,783	690	3,473	3,220,217	4,709,924	1,140,950	152,884

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

Country of registry	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
Upbound:							
Canada	898	252	1,150	1,733,304	2,494,489	429,458	4,395
United States	104	17	121	156,698	212,660	25,774	6,592
United Kingdom	39	1	40	101,385	172,485	5,699	1,122
Other British Commonwealth ..	9	1	10	39,434	54,910	4,282	—
France	1	1	2	5,474	9,107	37	—
Germany	4	4	8	12,891	22,517	2,148	—
Greece	2	—	2	10,723	15,525	—	—
Italy	2	—	2	7,885	12,459	—	—
Netherlands	2	—	2	6,340	11,148	—	—
Norway	5	—	5	8,892	16,116	—	—
Sweden	1	—	1	3,234	6,289	—	—
Other Europe	3	—	3	6,649	12,987	—	—
Panama	1	1	2	5,240	8,742	376	—
Liberia	4	—	4	20,441	31,623	—	—
Totals	1,075	277	1,352	2,118,590	3,081,057	467,774	12,109
Downbound:							
Canada	487	395	882	890,089	1,321,447	655,884	6,434
United States	1,201	14	1,215	184,050	258,093	4,810	133,222
United Kingdom	15	2	17	15,476	28,809	9,495	1,119
Other British Commonwealth ..	1	—	1	1,649	3,041	—	—
Germany	3	1	4	7,583	12,221	1,457	—
Netherlands	—	1	1	1,252	2,338	1,530	—
Norway	1	—	1	1,528	2,918	—	—
Totals	1,708	413	2,121	1,101,627	1,628,867	673,176	140,775
Grand totals	2,783	690	3,473	3,220,217	4,709,924	1,140,950	152,884

¹ Assessed as one unit.

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

Length of vessel	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
Upbound:							
Under 80 feet	138	—	138	6,539	7,620	—	3,588
80 to 119 feet	176	7	183	9,318	21,292	925	—
120 " 159 "	132	19	151	69,793	76,885	11,321	14
160 " 199 "	15	—	15	11,385	21,525	—	1,120
200 " 239 "	22	3	25	23,174	33,786	1,198	—
240 " 279 "	215	131	346	452,956	701,379	223,165	—
280 " 319 "	8	27	35	57,656	86,305	100,230	—
320 " 359 "	138	33	171	426,424	600,920	22,712	7,385
360 " 399 "	41	21	62	148,656	218,877	29,730	—
400 " 439 "	50	8	58	179,724	255,763	6,877	—
440 " 479 "	63	28	91	334,186	515,396	71,616	2
480 " 519 "	54	—	54	251,480	347,117	—	—
520 " 559 "	13	—	13	71,406	91,142	—	—
560 " 599 "	2	—	2	12,359	16,218	—	—
600 " 639 "	5	—	5	35,031	46,012	—	—
640 " 679 "	2	—	2	18,175	25,541	—	—
680 " 719 "	1	—	1	10,328	15,279	—	—
Totals	1,075	277	1,352	2,118,590	3,081,057	467,774	12,109
Downbound:							
Under 80 feet	1,244	4	1,248	72,306	94,615	—	131,953
80 to 119 feet	167	10	177	7,888	19,324	1,832	—
120 " 159 "	70	67	137	67,546	72,653	46,028	5
160 " 199 "	16	—	16	11,999	22,526	—	1,119
200 " 239 "	4	15	19	17,316	25,249	13,962	—
240 " 279 "	104	213	317	408,336	635,611	405,024	—
260 " 319 "	29	1	30	49,985	75,121	1,457	—
320 " 359 "	44	74	118	289,469	427,423	146,442	7,698
360 " 399 "	16	19	37	95,947	139,172	23,493	—
400 " 439 "	8	3	11	37,478	53,000	5,639	—
440 " 479 "	1	6	7	26,462	39,972	19,246	—
480 " 519 "	3	1	4	16,895	24,201	10,053	—
Totals	1,708	413	2,121	1,101,627	1,628,867	673,176	140,775
Grand totals	2,783	690	3,473	3,220,217	4,709,924	1,140,950	152,884

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

Port of origin and country of registry	Destined to						Total		
	Canada			United States			Number of vessels	Registered net tons	Gross tons
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons			
Originating at ports between the Gulf of St. Lawrence and Sault Ste. Marie:									
Registry:									
Canada	1,109	1,681,243	2,423,234	39	50,726	69,028	1,148	1,731,969	2,492,262
United States	34	58,184	75,925	86	98,459	136,602	120	156,643	212,527
United Kingdom	31	66,496	113,421	2	8,558	14,296	33	75,054	127,717
Other British Commonwealth	10	39,434	54,910	—	—	—	10	39,434	54,910
Germany	3	4,683	7,667	1	1,600	2,842	4	6,283	10,509
Netherlands	—	—	—	1	3,170	5,574	1	3,170	5,574
Norway	1	2,419	4,505	3	5,795	10,532	4	8,214	15,037
Other Europe	2	5,247	10,098	—	—	—	2	5,247	10,098
Totals	1,190	1,857,706	2,689,760	132	168,308	238,874	1,322	2,026,014	2,928,634
Originating at ports outside the Gulf of St. Lawrence:									
Registry:									
Canada	2	1,335	2,227	—	—	—	2	1,335	2,227
United States	—	—	—	1	55	133	1	55	133
United Kingdom	6	22,904	39,004	1	3,427	5,764	7	26,331	44,768
France	—	—	—	2	5,474	9,107	2	5,474	9,107
Germany	1	2,112	3,784	3	4,496	8,224	4	6,608	12,008
Greece	—	—	—	2	10,723	15,525	2	10,723	15,525
Italy	—	—	—	2	7,885	12,459	2	7,885	12,459
Netherlands	—	—	—	1	3,170	5,574	1	3,170	5,574
Norway	1	678	1,079	—	—	—	1	678	1,079
Sweden	1	3,234	6,289	—	—	—	1	3,234	6,289
Other Europe	—	—	—	1	1,402	2,889	1	1,402	2,889
Panama	—	—	—	2	5,240	8,742	2	5,240	8,742
Liberia	3	16,010	24,406	1	4,431	7,217	4	20,441	31,623
Totals	14	46,273	76,789	16	46,303	75,634	30	92,576	152,420
Grand totals	1,204	1,903,979	2,766,549	148	214,611	314,508	1,352	2,118,590	3,081,057

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

Port of destination and country of Registry	Originating in						Total		
	Canada			United States			Number of vessels	Registered net tons	Gross tons
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons			
Destined to ports between Sault Ste. Marie and the Gulf of St. Lawrence:									
Registry:									
Canada	840	867,916	1,289,035	36	18,845	28,012	876	886,761	1,317,047
United States	566	41,163	57,995	647	142,467	199,125	1,213	183,630	257,120
United Kingdom	16	14,770	27,007	—	—	—	16	14,770	27,007
Other British Commonwealth	1	1,649	3,041	—	—	—	1	1,649	3,041
Germany	2	4,383	6,537	2	3,200	5,684	4	7,583	12,221
Norway	1	1,528	2,918	—	—	—	1	1,528	2,918
Totals	1,426	931,409	1,386,533	685	164,512	232,821	2,111	1,095,921	1,619,354
Destined to ports outside the Gulf of St. Lawrence:									
Registry:									
Canada	6	3,328	4,400	—	—	—	6	3,328	4,400
United States	—	—	—	2	420	973	2	420	973
United Kingdom	1	706	1,802	—	—	—	1	706	1,802
Netherlands	—	—	—	1	1,252	2,338	1	1,252	2,338
Totals	7	4,034	6,202	3	1,672	3,311	10	5,708	9,513
Grand totals	1,433	935,443	1,392,735	688	166,184	236,132	2,121	1,101,627	1,628,867

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

Country of registry	Steam			Motor			Other			Total		
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Upbound:												
Canada	555	1,295,781	1,881,931	450	344,163	516,115	145	93,360	96,443	1,150	1,733,304	2,494,489
United States	43	136,802	186,654	75	14,120	20,216	3	5,776	5,790	121	156,698	212,680
United Kingdom	40	101,385	172,465	—	—	—	—	—	—	40	101,385	172,485
Other British Commonwealth	9	37,785	51,869	1	1,649	3,041	—	—	—	10	39,434	54,910
France	1	4,532	7,270	1	942	1,837	—	—	—	2	5,474	9,107
Germany	—	—	—	8	12,891	22,517	—	—	—	8	12,891	22,517
Greece	2	10,723	15,525	—	—	—	—	—	—	2	10,723	15,525
Italy	1	4,293	6,301	1	3,592	6,158	—	—	—	2	7,885	12,459
Netherlands	—	—	—	2	6,340	11,148	—	—	—	2	6,340	11,148
Norway	—	—	—	5	8,892	16,116	—	—	—	5	8,892	16,116
Sweden	—	—	—	1	3,234	6,289	—	—	—	1	3,234	6,289
Other Europe	—	—	—	3	6,649	12,987	—	—	—	3	6,649	12,987
Panama	1	4,370	7,076	1	870	1,666	—	—	—	2	5,240	8,742
Liberia	4	20,441	31,623	—	—	—	—	—	—	4	20,441	31,623
Totals	656	1,616,112	2,360,734	548	403,342	618,090	148	99,136	102,233	1,352	2,118,590	3,081,057
Downbound:												
Canada	339	575,267	873,363	412	237,655	369,015	131	77,167	79,069	882	890,089	1,321,447
United States	39	92,476	135,689	1,168	87,952	118,151	8	3,622	4,253	1,215	184,050	258,093
United Kingdom	17	15,476	28,809	—	—	—	—	—	—	17	15,476	28,809
Other British Commonwealth	—	—	—	1	1,649	3,041	—	—	—	1	1,649	3,041
Germany	—	—	—	4	7,583	12,221	—	—	—	4	7,583	12,221
Netherlands	—	—	—	1	1,252	2,338	—	—	—	1	1,252	2,338
Norway	—	—	—	1	1,528	2,918	—	—	—	1	1,528	2,918
Totals	395	683,219	1,037,861	1,587	337,619	507,684	139	80,789	83,322	2,121	1,101,627	1,628,867
Grand totals	1,051	2,299,331	3,398,595	2,135	740,961	1,125,774	287	179,925	185,555	3,473	3,220,217	4,709,924

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

Kind and length	Upbound			Downbound			Total		
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Cargo vessel:									
Under 80 feet	38	2,766	3,281	1,125	67,166	88,047	1,163	69,932	91,328
80 to 119 feet	16	1,264	1,537	17	1,394	1,666	33	2,658	3,203
120 " 159 "	2	360	634	3	372	1,013	5	732	1,647
160 " 199 "	15	11,385	21,525	15	11,385	21,525	30	22,770	43,050
200 " 239 "	9	6,085	15,066	6	3,432	10,039	15	9,517	25,105
240 " 279 "	278	371,929	571,837	227	293,842	452,911	505	665,771	1,024,748
280 " 319 "	9	13,594	22,483	3	4,805	8,272	12	18,399	30,755
320 " 359 "	155	384,390	552,103	105	256,067	385,534	260	642,457	937,637
360 " 399 "	53	121,409	185,736	19	43,494	66,806	72	164,903	252,542
400 " 439 "	56	175,762	251,475	3	9,454	12,923	59	185,216	264,398
440 " 479 "	91	334,186	515,396	7	26,462	39,972	98	360,648	555,368
460 " 519 "	54	251,480	347,117	4	16,895	24,201	58	268,375	371,318
520 " 559 "	13	71,406	91,142	—	—	—	13	71,406	91,142
560 " 599 "	2	12,359	16,218	—	—	—	2	12,359	16,218
600 " 639 "	5	35,031	46,012	—	—	—	5	35,031	46,012
640 " 679 "	2	18,175	25,541	—	—	—	2	18,175	25,541
680 " 719 "	1	10,328	15,279	—	—	—	1	10,328	15,279
Totals	799	1,821,909	2,682,382	1,534	736,768	1,112,909	2,333	2,558,677	3,795,291
Barge or scow:									
Under 80 feet	2	79	79	2	79	79	4	158	158
80 to 119 feet	8	240	346	7	210	263	15	450	609
120 " 159 "	102	57,920	58,066	102	58,968	58,968	204	116,888	117,034
200 " 239 "	15	16,021	17,550	13	13,884	15,210	28	29,905	32,764
320 " 359 "	9	26,520	27,186	2	5,700	5,700	11	32,220	32,886
360 " 399 "	5	16,270	16,770	—	—	—	5	16,270	16,770
Totals	141	117,050	119,997	126	78,841	80,220	267	195,891	200,217
Tug and Scow:¹									
80 to 119 feet	8	1,256	1,694	—	—	—	6	1,256	1,694
120 " 159 "	4	714	860	6	1,560	2,615	10	2,274	3,475
400 " 439 "	2	3,962	4,288	—	—	—	2	3,962	4,288
Totals	12	5,932	6,842	6	1,560	2,615	18	7,492	9,457
Tanker:									
240 to 279 feet	68	81,027	129,542	90	114,494	162,700	156	195,521	312,242
280 " 319 "	24	39,342	59,102	25	40,460	62,129	49	79,802	121,231
320 " 359 "	7	15,514	21,631	11	25,702	36,189	18	41,216	57,820
360 " 399 "	4	10,977	16,371	18	52,453	72,366	22	63,430	88,737
400 " 439 "	—	—	—	8	28,024	40,077	8	26,024	40,077
Totals	103	146,860	226,646	152	261,133	393,461	255	407,993	620,107
Tug or dredge:									
Under 80 feet	83	3,424	3,842	84	3,559	4,296	167	6,983	8,138
80 to 119 feet	153	6,558	17,715	152	6,254	17,312	305	12,812	35,027
120 " 159 "	33	7,783	13,540	19	4,021	7,266	52	11,804	20,806
160 " 199 "	—	—	—	1	614	1,001	1	614	1,001
200 " 239 "	1	1,068	1,170	—	—	—	1	1,068	1,170
Totals	270	18,833	36,267	256	14,448	29,875	526	33,281	66,142
Other vessels:									
Under 80 feet	15	270	418	37	1,502	2,193	52	1,772	2,611
80 to 119 feet	—	—	—	1	30	83	1	30	83
120 " 159 "	10	3,016	3,785	7	2,625	2,791	17	5,641	6,576
280 " 319 "	2	4,720	4,720	2	4,720	4,720	4	9,440	9,440
Totals	27	8,006	8,923	47	8,877	9,787	74	16,883	18,710
Grand totals	1,352	2,118,590	3,081,057	2,121	1,101,627	1,628,867	3,473	3,220,217	4,709,924

¹ Assessed as one unit.

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

Kind of vessel and draft	Upbound			Downbound			Total		
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Cargo vessel:									
5 feet and under	1	10	14	7	370	491	8	380	505
6 to 7 feet	39	7,820	10,238	1,118	66,796	87,556	1,157	74,616	97,794
10 " 11 "	2	1,772	2,531	4	1,426	2,563	6	3,198	5,094
12 " 13 "	52	41,890	59,108	32	18,191	25,995	84	60,081	85,103
14 " 15 "	70	134,222	201,799	46	57,502	93,194	116	191,724	294,993
16 " 17 "	206	426,312	632,451	162	229,343	361,178	368	655,655	993,629
18 " 19 "	172	381,667	552,513	133	280,520	423,644	305	662,187	976,157
20 " 21 "	162	454,202	659,401	19	44,388	64,177	181	498,590	723,578
22 " 23 "	28	82,603	116,748	8	18,535	25,737	36	101,138	142,485
24 " 25 "	36	145,058	215,659	4	15,252	21,133	40	160,310	236,792
26 " 27 "	27	124,163	199,705	—	—	—	27	124,163	199,705
28 " 29 "	2	8,789	13,567	1	4,445	7,241	3	13,234	20,808
30 feet and over	2	13,401	18,648	—	—	—	2	13,401	18,648
Totals	799	1,821,909	2,682,382	1,534	736,768	1,112,909	2,333	2,558,677	3,795,291
Barge or scow:									
5 feet and under	34	19,936	21,265	19	8,167	8,220	53	28,103	29,485
6 to 7 feet	1	2,850	2,850	—	—	—	1	2,850	2,850
8 " 9 "	90	51,120	51,266	94	55,496	55,700	184	106,616	106,966
10 " 11 "	1	1,068	1,170	9	9,124	9,940	10	10,192	11,110
12 " 13 "	—	—	—	1	1,068	1,170	1	1,068	1,170
14 " 15 "	2	2,136	2,340	2	2,136	2,340	4	4,272	4,680
16 " 17 "	2	5,700	5,700	1	2,850	2,850	3	8,550	8,550
18 " 19 "	11	34,240	35,406	—	—	—	11	34,240	35,406
Totals	141	117,050	119,997	126	78,841	80,220	267	195,891	200,217
Lighter and Scow¹:									
5 feet and under	4	714	860	—	—	—	4	714	860
6 to 7 feet	—	—	—	4	1,140	1,642	4	1,140	1,642
8 " 9 "	2	58	260	2	420	973	4	478	1,233
12 " 13 "	4	1,198	1,434	—	—	—	4	1,198	1,434
18 " 19 "	2	3,962	4,288	—	—	—	2	3,962	4,288
Totals	12	5,932	6,842	6	1,560	2,615	18	7,492	9,457
Tanker:									
8 to 9 feet	—	—	—	3	2,244	3,726	3	2,244	3,726
10 " 11 "	4	2,581	4,113	4	2,581	4,113	8	5,162	8,226
12 " 13 "	1	748	1,242	3	5,097	7,212	4	5,845	8,454
14 " 15 "	7	8,099	11,383	11	16,187	22,781	18	24,286	34,164
16 " 17 "	79	109,338	172,108	94	144,559	221,329	173	253,897	393,437
18 " 19 "	3	4,426	6,560	1	1,028	1,752	4	5,454	8,312
20 " 21 "	8	19,226	27,873	9	25,022	35,606	17	44,248	63,479
22 " 23 "	1	2,442	3,367	16	47,354	67,637	17	49,796	71,004
24 " 25 "	—	—	—	11	17,061	29,305	11	17,061	29,305
Totals	103	146,860	226,646	152	261,133	393,461	255	407,993	620,107
Tug or dredge:									
5 feet and under	20	1,313	1,499	20	181	231	40	1,494	1,730
6 to 7 feet	63	3,139	3,400	59	3,111	3,529	122	6,250	6,929
8 " 9 "	1	580	580	1	40	113	2	620	693
10 " 11 "	160	8,165	21,175	163	8,449	21,495	323	16,614	42,670
12 " 13 "	5	623	916	5	433	617	10	1,056	1,533
14 " 15 "	21	5,013	8,697	7	1,620	2,889	28	6,633	11,586
16 " 17 "	—	—	—	1	614	1,001	1	614	1,001
Totals	270	18,833	36,267	256	14,448	29,875	526	33,281	66,142
Other vessels:									
5 feet and under	13	167	238	9	140	246	22	307	484
6 to 7 feet	2	103	180	25	1,200	1,750	27	1,303	1,930
8 " 9 "	6	2,472	2,472	10	2,664	2,752	16	5,136	5,224
10 " 11 "	3	401	994	1	153	319	4	554	1,313
12 " 13 "	1	143	319	—	—	—	1	143	319
18 " 19 "	2	4,720	4,720	2	4,720	4,720	4	9,440	9,440
Totals	27	8,006	8,923	47	8,877	9,787	74	16,883	18,710
Grand totals	1,352	2,118,590	3,081,057	2,121	1,101,627	1,628,867	3,473	3,220,217	4,709,924

¹ Assessed as one unit

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

Country of loading	Cargo unloaded								
	In Canada			In United States			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
Ports between Sault Ste. Marie and Gulf of St. Lawrence:									
Canada	389,012	1,722	390,734	6,796	—	6,796	395,808	1,722	397,530
United States	45,175	307	45,482	21,218	—	21,218	66,393	307	66,700
Totals	434,187	2,029	436,216	28,014	—	28,014	462,201	2,029	464,230
Ports outside Gulf of St. Lawrence:									
Belgium	—	1,250	1,250	—	1,216	1,216	—	2,466	2,466
France	—	—	—	—	42	42	—	42	42
Germany	—	268	268	—	167	167	—	435	435
Italy	—	500	500	—	—	—	—	500	500
Netherlands	—	11	11	—	90	90	—	101	101
Totals	—	2,029	2,029	—	1,515	1,515	—	3,544	3,544
Grand totals	434,187	4,058	438,245	28,014	1,515	29,529	462,201¹	5,573	467,774

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

Country of unloading	Cargo loaded								
	In Canada			In United States			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
tons									
Ports between Sault Ste. Marie and Gulf of St. Lawrence:									
Canada	414,926	1,828	416,754	13,117	328	13,445	432,043	3,156	430,199
United States	141,855	88,385	230,240	3,932	—	3,932	145,787	88,385	234,172
Totals	556,781	90,213	646,994	17,049	328	17,377	573,830	90,541	664,371
Ports outside the Gulf of St. Lawrence:									
Canada Atlantic ports	5,818	—	5,818	—	—	—	5,818	—	5,818
Other British Commonwealth	—	1,457	1,457	—	—	—	—	1,457	1,457
Italy	—	—	—	—	1,530	1,530	—	1,530	1,530
Totals	5,818	1,457	7,275	—	1,530	1,530	5,818	2,987	8,805
Grand totals	562,599	91,670	654,269	17,049	1,858	18,907	579,648	93,528	673,176

TABLE 38 A. Cargo Tons 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	427,429	2,029	429,458
	United States	25,774	—	25,774
	United Kingdom	4,716	—	4,716
	Other British Commonwealth	4,282	—	4,282
	Totals	462,201	2,029	464,230
Ports outside the Gulf of St. Lawrence				
	United Kingdom	—	983	983
	France	—	37	37
	Germany	—	2,148	2,148
	Panama	—	376	376
	Totals	—	3,544	3,544
	Grand totals	462,201¹	5,573	467,774

¹ Due to an error in tabulation the total tonnage of bulk cargo should be reduced by 3,635 tons and the total general cargo increased accordingly.

TABLE 38 B. Cargo Tons 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	560,434	90,541	650,975
	United States	4,810	—	4,810
	Totals	565,244	90,541	655,785
Ports outside the Gulf of St. Lawrence	Canada	4,909	—	4,909
	United Kingdom	9,495	—	9,495
	Germany	—	1,457	1,457
	Netherlands	—	1,530	1,530
	Totals	14,404	2,987	17,391
Grand totals	579,648	93,528	673,176	

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

Kind of vessels and gross tons	Upbound							Downbound						
	Number of vessels			Cargo tons			Average cargo tons per vessel	Number of vessels			Cargo tons			Average cargo tons per vessel
	In ballast	With cargo	Total	Bulk	General	Total		In ballast	With cargo	Total	Bulk	General	Total	
Cargo vessel:														
Under 1,000 gross tons	49	7	56	925	—	925	132.1	1,132	13	1,145	1,133	—	1,133	87.2
1,000 to 1,999	126	13	139	16,782	472	17,254	1,327.2	50	82	132	120,707	24,127	144,834	1,766.3
2,000 " 2,999	113	78	191	74,824	2,640	77,464	993.1	18	113	131	183,780	18,347	202,127	1,788.7
3,000 " 3,999	144	51	195	37,145	2,105	39,250	769.6	21	92	113	119,151	51,054	170,205	1,850.1
4,000 " 4,999	67	4	71	4,193	—	4,193	1,048.3	—	3	3	5,752	—	5,752	1,884.0
5,000 " 5,999	30	26	56	68,056	356	68,412	2,631.2	—	6	6	23,709	—	23,709	3,951.5
6,000 " 6,999	50	2	52	3,204	—	3,204	1,602.0	3	—	3	—	—	—	—
7,000 " 7,999	28	—	28	—	—	—	—	1	—	1	—	—	—	—
8,000 " 8,999	4	—	4	—	—	—	—	—	—	—	—	—	—	—
9,000 " 9,999	2	—	2	—	—	—	—	—	—	—	—	—	—	—
10,000 " 10,999	1	—	1	—	—	—	—	—	—	—	—	—	—	—
12,000 " 12,999	2	—	2	—	—	—	—	—	—	—	—	—	—	—
13,000 " 13,999	1	—	1	—	—	—	—	—	—	—	—	—	—	—
15,000 " 15,999	1	—	1	—	—	—	—	—	—	—	—	—	—	—
Totals	618	181	799	205,129	5,573	210,702	1,164.1	1,225	309	1,534	454,232	93,528	547,760	1,772.7
Barge or scow:														
Under 1,000 gross tons	93	19	112	11,321	—	11,321	595.8	45	66	111	45,329	—	45,329	686.8
1,000 to 1,999	14	1	15	813	—	813	813.0	—	13	13	13,818	—	13,818	1,062.9
2,000 " 2,999	3	—	3	—	—	—	—	2	—	2	—	—	—	—
3,000 " 3,999	11	—	11	—	—	—	—	—	—	—	—	—	—	—
Totals	121	20	141	12,134	—	12,134	606.7	47	79	126	59,147	—	59,147	748.7
Tug and scow:¹														
Under 1,000 gross tons	10	—	10	—	—	—	—	6	—	6	—	—	—	—
4,000 to 4,999	2	—	2	—	—	—	—	—	—	—	—	—	—	—
Totals	12	—	12	—	—	—	—	6	—	6	—	—	—	—
Tanker:														
Under 1,000 gross tons	2	2	4	3,577	—	3,577	1,788.5	4	—	4	—	—	—	—
1,000 to 1,999	18	26	44	72,773	—	72,773	2,799.0	24	21	45	60,810	—	60,810	2,895.7
2,000 " 2,999	3	45	48	158,070	—	158,070	3,512.7	87	1	88	384	—	384	384.0
3,000 " 3,999	3	1	4	4,282	—	4,282	4,282.0	19	—	19	—	—	—	—
4,000 " 4,999	1	2	3	6,236	—	6,236	3,118.0	10	1	11	3,677	—	3,677	3,677.0
5,000 " 5,999	—	—	—	—	—	—	—	5	—	5	—	—	—	—
Totals	27	76	103	244,938	—	244,938	3,222.9	129	23	152	64,871	—	64,871	2,820.5
Other vessels:														
Under 1,000 gross tons	294	—	294	—	—	—	—	298	2	300	1,398	—	1,398	699.0
1,000 to 1,999	1	—	1	—	—	—	—	1	—	1	—	—	—	—
2,000 " 2,999	2	—	2	—	—	—	—	2	—	2	—	—	—	—
Totals	297	—	297	—	—	—	—	301	2	303	1,398	—	1,398	699.0
Grand totals	1,075	277	1,352	462,201²	5,573	467,774	1,688.7	1,708	413	2,121	579,648	93,528	673,176	1,630.0

¹ Assessed as one unit.² Due to an error in tabulation the total tonnage of bulk cargo should be reduced by 3,635 tons and the total general cargo increased accordingly.

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

Commodity	Canada to		United States to		United Kingdom to		Other Europe to		Total to		Grand total	
	Canada	United States	Canada	United States	Canada	United States	Canada	United States	Canada	United States		
	tons											
Food, feed, beverages and tobacco:												
Food and food preparations	6,017	—	—	—	—	—	—	1	—	6,018	—	6,018
Beer, wines and alcoholic beverages	909	—	—	—	—	—	—	—	43	909	43	952
Food, beverages, tobacco, n.e.s.	1,553	—	—	—	—	—	—	—	—	1,553	—	1,553
Totals	8,479	—	—	—	—	—	—	1	43	8,480	43	8,523
Crude materials, inedible:												
Coal, bituminous	—	—	25,652	—	—	—	—	—	—	25,652	—	25,652
Sand and gravel	2,657	1,942	—	—	—	—	—	—	—	2,657	1,942	4,599
Stone, crushed and broken	—	4,304	14,757	—	—	—	—	—	—	14,757	4,304	19,061
Salt	8,902	—	—	—	—	—	—	—	—	8,902	—	8,902
Crude materials, inedible, n.e.s.	90	550	—	235	—	—	—	—	—	90	785	875
Totals	11,649	6,796	40,409	235	—	—	—	—	—	52,058	7,031	59,089
Fabricated materials, inedible:												
Chemicals	9,215	—	900	—	—	—	—	40	87	10,155	87	10,242
Gasoline	73,517	—	—	2,370	—	—	—	—	—	73,517	2,370	75,887
Fuel oil	143,931	—	—	18,613	—	—	—	—	—	143,931	18,613	162,544
Petroleum and coal products, n.e.s.	132	—	3,866	—	—	—	—	—	—	3,998	—	3,998
Structural shapes and sheet piling	1,251	—	59	—	—	—	—	1,527	1,313	2,837	1,313	4,150
Cement	2,013	—	—	—	—	—	—	—	—	2,013	—	2,013
Miscellaneous fabricated materials, n.e.s.	1,003	—	—	—	—	—	—	59	51	1,062	51	1,113
Totals	231,062	—	4,825	20,983	—	—	—	1,626	1,451	237,513	22,434	259,947
End products, inedible:												
Motor vehicles	481	—	—	—	—	—	—	—	3	481	3	484
End products, inedible, n.e.s.	131	—	—	—	—	—	—	—	—	131	—	131
Totals	612	—	—	—	—	—	—	—	3	612	3	615
Miscellaneous freight, n.e.s.	6,138	—	248	—	—	—	—	402	18	6,788	18	6,806
Domestic package freight	132,794	—	—	—	—	—	—	—	—	132,794	—	132,794
Grand totals	390,734	6,796	45,482	21,218	—	—	—	2,029	1,515	438,245	29,529	467,774

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

Commodity	Canada to					United States to					Grand total	
	Canada	United States	United Kingdom	Other Europe	Total	Canada	United States	United Kingdom	Other Europe	Total		
	tons											
Food, feed, beverages and tobacco:												
Barley	19,914	18,027	—	—	37,941	—	—	—	—	—	—	37,941
Oats	7,575	—	—	—	7,575	12,239	—	—	—	—	12,239	19,814
Wheat	45,523	109	—	—	45,632	—	—	—	—	—	—	45,632
Malt	24,549	—	—	—	24,549	—	—	—	—	—	—	24,549
Flour, wheat	4,642	—	—	—	4,642	—	—	—	—	—	—	4,642
Grain, flour, meal, cereals, n.e.s.	1,805	—	—	—	1,805	—	—	—	—	—	—	1,805
Fodder and feed	93,944	—	—	—	93,944	—	—	—	—	—	—	93,944
Food, beverages, tobacco, n.e.s.	—	—	—	—	—	—	—	—	1,530	1,530	—	1,530
Totals	197,952	18,136	—	—	216,088	12,239	—	—	1,530	13,769	—	229,857
Crude materials, inedible:												
Flaxseed	1,495	—	—	—	1,495	—	—	—	—	—	—	1,495
Pulpwood	3,421	1,600	—	—	5,021	—	—	—	—	—	—	5,021
Iron and steel scrap	2,100	—	—	—	2,100	—	—	—	—	—	—	2,100
Sand and gravel	59,745	—	—	—	59,745	—	—	—	—	—	—	59,745
Crude materials, inedible, n.e.s.	200	—	—	—	200	748	255	—	—	1,003	—	1,203
Totals	66,961	1,600	—	—	68,561	748	255	—	—	1,003	—	69,564
Fabricated materials, inedible:												
Woodpulp	—	103,636	—	—	103,636	—	—	—	—	—	—	103,636
Newsprint paper	—	61,928	—	—	61,928	—	—	—	—	—	—	61,928
Fuel oil	15,598	8,845	—	—	24,443	—	3,677	—	—	3,677	—	28,120
Tar, pitch and creosote	36,895	—	—	—	36,895	—	—	—	—	—	—	36,895
Iron and steel: ingot, billet, rod, etc.	800	9,218	—	1,457	11,475	—	—	—	—	—	—	11,475
Steel: plate, sheet and strip	3,149	2,902	—	—	6,051	—	—	—	—	—	—	6,051
Structural shapes and sheet piling	20,186	10,311	—	—	30,497	—	—	—	—	—	—	30,497
Fabricated materials, inedible, n.e.s.	—	—	—	—	—	130	—	—	—	130	—	130
Totals	76,628	198,840	—	1,457	274,925	130	3,677	—	—	3,807	—	278,732
End products, inedible	5	—	—	—	5	328	—	—	—	328	—	333
Miscellaneous freight	26,124	13,664	—	—	39,788	—	—	—	—	—	—	39,788
Domestic package freight	54,902	—	—	—	54,902	—	—	—	—	—	—	54,902
Grand totals	422,572	230,240	—	1,457	654,269	13,445	3,932	—	1,530	18,907	—	673,136

LACHINE CANAL

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

Kind of vessel and country of registry	Upbound							Downbound						
	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel:														
Canada	488	111	599	354,359	547,222	23,359	—	90	528	618	381,899	588,501	680,080	1
United States	1	—	1	920	1,512	—	—	—	1	1	254	466	74	—
United Kingdom	35	10	45	11,936	24,741	1,474	—	11	31	42	10,858	22,538	8,485	—
Other countries	4	—	4	1,425	2,581	—	—	1	3	4	2,290	4,571	457	—
Totals	528	121	649	368,640	576,056	24,833	—	102	563	665	395,301	616,076	689,096	1
Scow or barge:														
Canada	195	4	199	84,319	89,098	82	—	50	221	271	120,511	126,441	185,679	—
United States	1	—	1	209	209	—	—	—	—	—	—	—	—	—
Totals	196	4	200	84,528	89,307	82	—	50	221	271	120,511	126,441	185,679	—
Tug or dredge:														
Canada	270	—	270	12,712	22,220	—	—	290	—	290	13,545	24,582	—	—
United States	1	—	1	125	185	—	—	1	—	1	125	185	—	—
Totals	271	—	271	12,837	22,405	—	—	291	—	291	13,670	24,767	—	—
Tanker														
Canada	5	4	9	9,745	17,029	7,005	—	12	—	12	13,062	20,951	—	—
Tug and Scow:¹														
Canada	84	—	84	15,720	18,414	—	—	24	24	48	8,121	10,274	9,993	—
Other vessels:														
Canada	47	5	52	3,994	7,770	710	—	42	3	45	3,319	6,091	2,700	—
Grand totals	1,131	134	1,265	495,464	730,981	32,630	—	521	811	1,332	553,984	804,600	887,468	1
Non toll traffic included	905	131	1,036	220,416	305,438	25,047	—	500	574	1,074	249,220	334,201	265,867	1

¹ Assessed as one unit.

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	Registered net tons	Gross tons	Number	Registered net tons	Gross tons	Number	Registered net tons	Gross tons	Number	Registered net tons	Gross tons
Upbound												
Canada to Canada:												
Canada	156	127,954	206,342	649	130,102	203,623	300	99,003	104,923	1,105	357,059	514,888
United States	1	920	1,512	1	125	185	1	209	209	3	1,254	1,906
United Kingdom	1	706	1,805	44	11,230	22,936	—	—	—	45	11,936	24,741
Other countries	—	—	—	2	53	79	—	—	—	2	53	79
Totals	158	129,580	209,659	696	141,510	226,823	301	99,212	105,132	1,155	370,302	541,614
Canada to United States:												
Canada	98	114,830	174,643	5	7,997	11,005	—	—	—	103	122,827	185,648
United States to Canada:												
Canada	—	—	—	5	963	1,217	—	—	—	5	963	1,217
Other Commonwealth to Canada:												
Other countries	—	—	—	1	244	648	—	—	—	1	244	648
Other Countries to Canada:												
Other countries	—	—	—	1	1,128	1,854	—	—	—	—	1,128	1,854
Totals, upbound	256	244,410	384,302	708	151,842	241,547	301	99,212	105,132	1,265	495,464	730,981
Downbound												
Canada to Canada:												
Canada	170	143,951	229,893	667	144,765	223,669	334	124,650	131,348	1,171	413,366	584,910
United States	—	—	—	2	379	651	—	—	—	2	379	651
United Kingdom	1	766	1,805	41	10,092	20,733	—	—	—	42	10,858	22,538
Other countries	—	—	—	1	1,128	1,854	—	—	—	1	1,128	1,854
Totals	171	144,717	231,698	711	156,364	246,907	334	124,650	131,348	1,216	425,731	609,953
Canada to United States:												
Canada	—	—	—	7	1,347	1,701	—	—	—	7	1,347	1,701
Canada to Other Europe:												
Other countries	1	674	1,421	—	—	—	—	—	—	1	674	1,421
Canada to Other countries:												
Other countries	—	—	—	2	488	1,296	—	—	—	2	488	1,296
United States to Canada:												
Canada	101	117,877	179,184	5	7,867	11,045	—	—	—	106	125,744	190,229
Totals, downbound	273	263,268	412,303	725	166,066	260,949	334	124,650	131,348	1,332	553,984	804,600
Grand totals	529	507,678	796,605	1,433	317,908	502,496	635	223,862	236,480	2,597	1,049,448	1,535,581

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

Commodity	Canada to Canada		Canada to other countries		United States to Canada		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
	tons							
Barley	—	15,289	—	—	—	—	—	15,289
Corn	—	3,766	—	—	—	14,823	—	18,589
Oats	—	4,156	—	—	—	—	—	4,156
Wheat	—	304,301	—	—	—	13,739	—	318,040
Malt	—	24,542	—	—	—	—	—	24,542
Soybean oil cake and meal	—	4,204	—	—	—	—	—	4,204
Fodder and feed, n.e.s.	—	1,887	—	—	—	—	—	1,887
Ale, beer and wines	—	1,229	—	69	—	—	—	1,298
Food, beverages, tobacco, n.e.s.	439	303	—	—	—	—	439	303
Coal, bituminous	—	5	—	—	—	234,816	—	234,821
Sand, gravel and stone	7,583	198,027	—	—	—	—	7,583	198,027
Crude materials, inedible, n.e.s.	825	459	—	—	—	—	825	459
Wood fabricated materials	12,479	917	—	—	—	—	12,479	917
Paper and paperboard, n.e.s.	931	347	—	—	—	—	931	347
Fuel oil	1,005	309	—	—	—	—	1,005	309
Tar, pitch and creosote	6,000	10	—	—	—	—	6,000	10
Iron and steel: ingot, billet, rod, etc.	—	908	—	—	—	—	—	908
Structural shapes and sheet piling	—	1,403	—	—	—	—	—	1,403
Cement	—	4,383	—	—	—	—	—	4,383
Miscellaneous fabricated materials, n.e.s.	—	1,853	—	—	—	—	—	1,853
Machinery, equipment and parts	1,655	488	—	—	—	—	1,655	488
End products, inedible, n.e.s.	584	153	—	—	—	—	584	153
Miscellaneous freight, n.e.s.	269	12,760	—	388	—	—	269	13,148
Domestic package freight	860	41,934	—	—	—	—	860	41,934
Totals	32,630	623,633	—	457	—	263,378	32,630	887,468
Non-toll traffic included in above	25,047	265,410	—	457	—	—	25,047	265,867
Passengers	No.	1	—	—	—	—	—	1

CORNWALL CANAL

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

Kind of vessel and country of registry	Upbound							Downbound						
	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel:														
Canada	38	36	74	108,141	131,778	115,478	—	2	4	6	9,032	10,940	11,606	—
Other countries	1	3	4	3,024	5,898	5,122	—	2	—	2	1,352	2,664	—	—
Totals	39	39	78	111,165	137,676	120,600	—	4	4	8	10,384	13,604	11,606	—
Scow or barge:														
Canada	33	—	33	4,364	4,458	—	—	48	—	48	8,996	9,012	—	—
United States	—	—	—	—	—	—	—	1	—	1	85	85	—	—
Totals	33	—	33	4,364	4,458	—	—	49	—	49	9,081	9,097	—	—
Tanker:														
Canada	1	18	19	23,357	36,391	47,776	—	17	—	17	21,017	32,352	—	—
Tug or dredge:														
Canada	83	—	83	3,241	7,880	—	—	96	—	96	5,332	10,580	—	—
Tug and Scow:¹														
Canada	14	—	14	3,392	4,273	—	—	9	1	10	3,171	3,894	255	—
Other vessels:														
Canada	72	—	72	2,251	3,684	—	—	73	—	73	4,249	4,609	—	—
United States	—	—	—	—	—	—	—	1	—	1	100	100	—	—
Totals	72	—	72	2,251	3,684	—	—	74	—	74	4,349	4,709	—	—
Grand totals	242	57	299	147,770	194,362	166,376	—	249	5	254	53,334	74,236	11,861	—
Non-toll traffic included	41	—	41	2,444	4,296	—	—	21	—	21	1,356	1,752	—	—

¹ Assessed as one unit.

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	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	19	13,146	22,692	191	123,386	156,434	85	8,214	9,338	295	144,746	188,464
Other countries	—	—	—	1	836	1,617	—	—	—	1	836	1,617
Totals	19	13,146	22,692	192	124,222	158,051	85	8,214	9,338	296	145,582	190,081
United Kingdom to Canada:												
Other countries	—	—	—	3	2,188	4,281	—	—	—	3	2,188	4,281
Totals, upbound	19	13,146	22,692	195	126,410	162,332	85	8,214	9,338	299	147,770	194,362
Downbound												
Canada to Canada:												
Canada	13	9,718	15,901	137	23,898	35,659	98	15,211	16,212	248	48,827	67,772
United States	—	—	—	—	—	—	1	85	85	1	85	85
Other countries	—	—	—	1	782	1,552	—	—	—	1	782	1,552
Totals	13	9,718	15,901	138	24,680	37,211	99	15,296	16,297	250	49,694	69,409
Canada to United States:												
Other countries	—	—	—	1	570	1,112	—	—	—	1	570	1,112
United States to Canada:												
Canada	—	—	—	2	2,970	3,615	—	—	—	2	2,970	3,615
United States	—	—	—	1	100	100	—	—	—	1	100	100
Totals	—	—	—	3	3,070	3,715	—	—	—	3	3,070	3,715
Totals, downbound	13	9,718	15,901	142	28,320	42,038	99	15,296	16,297	254	53,334	74,236
Grand totals	32	32,864	38,593	337	154,730	204,370	184	23,510	25,635	553	201,104	268,568

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

Commodity	Canada to Canada		Other Countries to Canada		United States to Canada		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
	tons							
Coal, Bituminous	93,209	—	—	—	—	5,879	93,209	5,879
Salt	—	5,727	—	—	—	—	—	5,727
Sulphur	22,269	—	—	—	—	—	22,269	—
Fuel oil	47,776	—	—	—	—	—	47,776	—
Clay and bentonite	—	—	5,122	—	—	—	5,122	—
Machinery, equipment and parts	—	255	—	—	—	—	—	255
Totals	163,254	5,982	5,122	—	—	5,879	168,376	11,861
Passengers	No.	—	—	—	—	—	—	—

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

Port	Unloaded			Loaded			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
Fort William—Port Arthur	335,164	12,500	347,664	6,402,201	4,960	6,407,161	6,737,365	17,460	6,754,825
Other Canadian Lake Superior ports ...	26,043	800	26,843	147,579	7,247	154,826	173,622	8,047	181,669
Little Current	—	—	—	51,135	—	51,135	51,135	—	51,135
Other Canadian Lake Huron ports	83,668	322	83,990	279,081	75,634	354,715	362,749	75,956	438,705
Other Georgian Bay ports	96,252	74	96,326	19,292	97	19,389	115,544	171	115,715
Sarnia	167,883	408	168,291	415,555	46,886	462,441	583,438	47,294	630,732
Windsor	144,424	656	145,080	62,472	167	62,639	206,896	823	207,719
Canadian St. Clair Lake and river and Detroit river ports	5,541	631	6,172	145,305	401	145,706	150,846	1,032	151,878
Port Colborne	78,241	686	78,927	816,759	3	816,762	895,000	689	895,689
Canadian Lake Erie ports	121,818	2,111	123,929	59,496	53	59,549	181,314	2,164	183,478
Thorold	420,892	3,761	424,653	21,342	194,476	215,818	442,234	198,237	640,471
Port Weller	96,442	50	96,492	5,424	—	5,424	101,866	50	101,916
Other Canadian Welland Canal ports ...	562,523	30	562,553	628,835	2,617	631,452	1,191,358	2,647	1,194,005
Hamilton	6,629,077	37,970	6,667,047	396,120	72,644	468,764	7,025,197	110,614	7,135,811
Port Credit	46,739	—	46,739	52,872	—	52,872	99,611	—	99,611
Toronto	2,742,795	220,711	2,963,506	709,742	43,973	753,715	3,452,537	264,684	3,717,221
Pictou	11,677	—	11,677	177,390	—	177,390	189,067	—	189,067
Kingston	601,500	98	601,598	419,850	—	419,850	1,021,350	98	1,021,448
Prescott	1,022,507	1,010	1,023,517	706,412	—	706,412	1,728,919	1,010	1,729,929
Cornwall	193,247	—	193,247	—	—	—	193,502	—	193,502
Other Canadian Lake Ontario ports and St. Lawrence river to Iroquois	459,194	1,155	460,349	407,170	—	407,170	866,364	1,155	867,519
Canadian St. Lawrence canal ports	60,635	—	60,635	7,676	—	7,676	68,311	—	68,311
Lachine canal ¹	802,617	—	802,617	492	—	492	803,109	—	803,109
Montreal	3,980,475	6,030	3,986,505	1,944,449	6,522	1,950,971	5,924,924	12,552	5,937,476
Contrecoeur	171,081	12	171,093	570,359	—	570,359	741,440	12	741,452
Sorel	866,886	—	866,886	197,926	—	197,926	1,064,812	—	1,064,812
Three Rivers	985,154	—	985,154	49,691	76,864	126,555	1,034,845	76,864	1,111,709
Sept Iles	3,755	328	4,083	3,008,922	—	3,008,922	3,012,677	328	3,013,005
Other Canadian St. Lawrence river ports East of Montreal	2,315,165	—	2,315,165	368,537	145,296	513,833	2,683,702	145,296	2,828,998
Halifax	138,587	—	138,587	6	—	6	138,593	—	138,593
Saint John	1,610	—	1,610	—	—	—	1,610	—	1,610
Other Canadian Atlantic Coast and Gulf of St. Lawrence ports	62,878	24	62,902	22,781	72,244	95,025	85,659	72,268	157,927
Canadian Pacific Coast ports	—	—	—	1,373	—	1,373	1,373	—	1,373
Totals	23,234,470	289,367	23,523,837	18,096,499	750,084	18,848,583	41,330,969	1,039,451	42,370,420

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

Port	Unloaded			Loaded			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
Duluth	2,622	10,301	12,923	2,190,829	19,145	2,209,974	2,193,451	29,446	2,222,897
Superior	—	—	—	747,179	—	747,179	747,179	—	747,179
Other United States Lake Superior ports	—	—	—	2,411,071	—	2,411,071	2,411,071	—	2,411,071
Chicago	102,064	525,023	627,087	1,207,578	177,729	1,385,307	1,309,642	702,752	2,012,394
Milwaukee	34,784	51,191	85,975	491,710	77,609	569,319	562,494	128,800	655,294
Other United States Lake Michigan ports	196,532	21,237	217,769	457,707	67,030	524,737	654,239	88,267	742,506
United States Lake Huron ports	30,799	344	31,141	413,624	32,368	445,992	444,423	32,712	477,133
Detroit	405,856	222,823	628,679	563,524	116,816	680,340	969,380	339,639	1,309,019
Other United States St. Clair Lake and river and Detroit river ports	176,490	6,824	183,314	14,421	647	15,068	190,911	7,471	198,382
Ashtabula	584,469	1,394	585,863	1,464,458	11	1,464,469	2,048,927	1,405	2,050,332
Buffalo	307,085	12,076	319,161	229,495	5,040	234,535	536,580	17,116	553,696
Cleveland	2,409,782	186,833	2,596,615	20,916	54,184	75,100	2,430,698	241,017	2,671,715
Conneaut	—	—	—	76,894	—	76,894	78,894	—	76,894
Erie	45,476	8,572	52,048	181,473	7,249	188,722	226,949	13,821	240,770
Lackawanna	11,953	—	11,953	—	—	—	11,953	—	11,953
Lorain	51,920	—	51,920	—	—	—	91,358	141	91,499
Sandusky	—	—	—	39,438	141	39,579	507,883	—	507,883
Toledo	419,550	44,098	463,648	3,237,835	30,490	3,268,325	3,657,385	74,588	3,731,973
Other United States Lake Erie ports ...	372,495	1,251	373,746	154,469	30	154,499	526,964	1,281	528,245
Oswego	185,865	—	185,865	68,031	2,147	70,178	253,896	2,147	256,043
Rochester	3	19,309	19,312	2,584	3,264	5,848	2,587	22,573	25,160
Other United States Lake Ontario and St. Lawrence river to Ogdensburg ...	162,119	—	162,119	84,402	4,413	88,815	246,521	4,413	250,934
United States St. Lawrence canal ports	147,899	—	147,899	2,762	12	2,774	150,661	12	150,673
United States Atlantic and Gulf of Mexico ports	188,540	6,502	195,042	324,881	2,424	327,305	513,421	8,926	522,347
United States Hudson River ports	118,522	—	118,522	58,042	—	58,042	176,564	—	176,564
United States Pacific Coast ports	—	—	—	—	3,371	3,371	—	3,371	3,371
Totals	5,954,823	1,115,778	7,070,601	14,951,206	604,120	15,555,326	20,906,029	1,719,898	22,625,927
Grand totals	29,189,293	1,405,145	30,594,438	33,047,705	1,354,204	34,401,909	62,236,998	2,759,349	64,998,347

¹ Non toll traffic excluded.

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

Ports	Unloaded			Loaded			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
In Canada:									
Fort William - Port Arthur	202,140	817	202,957	206,109	56,086	272,195	408,249	66,903	475,152
Other Canadian Lake Superior ports	122,451	59	122,510	259,049	25,584	284,633	381,500	25,643	407,143
Other Canadian Lake Huron ports	75,419	—	75,419	10,685	—	10,685	86,104	—	86,104
Other Georgian Bay ports	123,740	—	123,740	6,757	—	6,757	130,497	—	130,497
Sarnia	4,393	—	4,393	179,314	—	179,314	183,707	—	183,707
Windsor	52,374	1,828	54,202	19,401	—	19,401	71,775	1,828	73,603
Other Canadian St. Clair Lake and river and Detroit river ports	34	—	34	6,112	—	6,112	6,146	—	6,146
Port Colborne	3,420	—	3,420	53	—	53	3,473	—	3,473
Other Canadian Lake Erie ports	2	—	2	5,876	—	5,876	6,878	—	6,878
Totals	583,973	2,704	586,677	694,356	91,670	786,026	1,278,329	94,374	1,372,703
In United States:									
United States Lake Superior ports	28,014	37	28,051	11,238	765	12,003	39,252	802	40,054
Chicago	420	20,597	21,017	14,053	—	14,053	14,473	20,597	35,070
Milwaukee	12,215	59,872	72,087	—	59	59	12,215	59,931	72,146
Other United States Lake Michigan ports	115,029	—	115,029	10,796	—	10,796	125,825	—	125,825
United States Lake Huron ports	2,586	—	2,586	15,892	—	15,892	18,478	—	18,478
Detroit	8,487	6,932	15,419	—	—	—	8,487	6,932	15,419
Other United States St. Clair Lake and river and Detroit river ports	3,715	—	3,715	—	—	—	3,715	—	3,715
Cleveland	—	—	—	—	248	248	—	248	248
Toledo	3,335	984	4,319	25,652	—	25,652	28,987	984	29,971
Totals	173,801	88,422	262,223	77,631	1,072	76,703	251,432	89,494	340,926
Grand totals	757,774	91,126	848,900	771,987	92,742	864,729	1,529,761	183,868	1,713,629

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

	Upbound			Downbound			Grand total 1961	Grand total 1960
	Canadian canal	United States Canal ²	Total	Canadian canal	United States canal ²	Total		
Vessel passages	1,352	7,361	8,713	2,121	6,653	8,774	17,487	21,461
Passengers	12,109	127,803	139,912	140,775	9,985	150,760	290,672	323,788
	Cargo tons							
Paper and woodpulp	—	—	—	155,564	113,512	279,076	279,076	243,147
Pulpwood, lumber and logs	925	—	925	6,024	243,229	249,253	250,178	261,072
Wheat	—	12,209	12,209	45,632	10,118,963	10,164,595	10,176,804	7,610,569
Barley	—	—	—	37,941	1,318,052	1,355,993	1,355,993	1,914,332
Oats	—	—	—	19,814	694,061	713,875	713,875	919,604
Corn	—	—	—	—	579,615	579,615	579,615	569,706
Rye	—	—	—	—	194,530	194,530	194,530	201,692
Flaxseed	—	—	—	1,495	339,976	341,471	341,471	374,476
Flour	189	—	189	4,642	71,836	76,478	76,667	58,736
Other grain and mill products	—	—	—	1,805	243,242	245,047	245,047	563,274
Iron ore	—	62,887	62,887	200	55,855,787	55,855,987	55,918,874	67,938,901
Manufactured iron and steel	4,150	147,747	151,897	38,005	285,514	323,519	475,416	432,879
Pig iron	—	—	—	10,018	227,334	237,352	237,352	224,682
Scrap iron	—	39,960	39,960	2,100	257,837	259,937	299,897	201,721
Sand, gravel and stone	23,600	1,329,939	1,353,539	59,745	1,000	60,745	1,414,284	1,364,593
Fuel oil	152,544	246,201	408,745	28,120	62,014	90,134	498,879	457,615
Other petroleum products	3,998	1,399	5,397	36,895	18,284	55,179	60,576	12,854
Gasoline	75,887	176,617	252,504	—	10,386	10,386	262,890	286,603
Cement	2,013	235,920	237,933	—	800	800	238,733	224,073
Coal, bituminous	25,652	6,400,056	6,425,710	—	71,526	71,526	6,497,236	6,963,990
Coal, anthracite	—	80,109	80,109	—	—	—	80,109	114,224
Coke	—	3,750	3,750	—	—	—	3,750	22,354
Salt	8,902	—	8,902	—	—	—	8,902	6,563
Autos, trucks and parts	484	2,002	2,486	308	107	415	2,901	29,652
Other freight	159,430	347,196	506,626	221,861	96,539	318,400	825,026	777,312
Totals	467,774	9,085,994	9,553,768	680,169	70,804,144	71,484,313	81,038,081	91,774,624

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

² Sault Ste. Marie, U.S. locks are: (1) Poe Lock - Length 704 ft., Depth 16.6 ft.
 (2) Davis Lock - Length 1,350 ft., Width 80 ft., Depth 23.1 ft.
 (3) Sabin Lock - Length 1,350 ft., Width 80 ft., Depth 23.1 ft.
 (4) MacArthur Lock - Length 800 ft., Width 80 ft., Depth 31.0 ft.

TABLE 50. Cargo tons Carried in Interlake Traffic¹

From lake or area	To							Totals
	Lake Superior	Lake Michigan	Lake Huron	Lake Erie ²	Lake Ontario ³	St. Lawrence river	Beyond the Gulf of St. Lawrence ⁴	
Lake Superior .....	...	20,158,223 ⁵	2,499,395 ⁵	36,992,887 ⁵	5,130,860	4,453,863	2,310,374	71,545,602
Lake Michigan	780,811 ⁵	...	..	..	520,881	493,154	1,468,660	..
Lake Huron	1,948,082 ⁵	..	..	..	262,681	227,007	381,543	..
Lake Erie ²	6,424,008 ⁵	..	..	..	4,645,398	2,169,424	1,195,075	..
Lake Ontario ³	312,536	195,371	130,816	826,368	..	1,882,503	554,102	3,901,696
St. Lawrence river	52,488	286,586	47,179	3,879,480	1,834,397	..	18,236	6,118,366
Beyond the Gulf of St. Lawrence ⁴	21,170	435,233	22,902	610,753	736,639	17,556	..	1,844,253
Totals	9,539,095	..	..	..	13,130,856	9,243,507	5,927,990	..

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

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

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

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

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

TABLE 51. Cargo Carried through St. Lawrence Seaway Canal Networks excluding duplications¹

Canal networks	Corn	Wheat	Iron ore	Iron & steel scrap	Bituminous coal	Newsprint	Fuel oil	All other freight	1961 Total	1960 Total
Upbound:										
St. Lawrence and Ottawa	—	—	—	—	—	—	—	777	777	80
St. Lawrence only	—	—	280,615	593	450,898	14,578	840,746	1,055,395	2,642,825	2,794,394
St. Lawrence and Welland	—	—	3,529,595	—	102,159	272,611	191,568	1,482,174	5,578,107	6,011,503
St. Lawrence, Welland and Sault Ste. Marie ²	—	—	—	—	—	—	—	26,082	26,082	57,920
Welland only	—	26,739	117,406	—	4,700	198,525	234,605	1,370,314	1,952,289	2,156,778
Welland and Sault Ste. Marie ²	—	—	—	—	—	—	2,962	85,212	88,174	171,124
Sault Ste. Marie only ²	—	—	—	—	25,652	—	159,582	168,284	353,518	498,612
Totals	—	26,739	3,927,616	593	583,409	485,714	1,429,463	4,188,238	10,641,772	11,690,411
Downbound:										
St. Lawrence and Ottawa	—	—	—	—	—	—	—	198,027	198,027	279,670
St. Lawrence only	32,050	1,151,019	42,739	186,618	143,939	626	23,681	809,859	2,390,531	1,966,005
St. Lawrence and Welland	1,560,654	5,344,499	171,245	1,253,268	432,935	4,890	63,028	3,948,720	12,779,239	9,437,045
St. Lawrence, Welland and Sault Ste. Marie ²	—	6,113	—	—	—	—	—	51,036	57,149	207,688
Welland only	250,835	1,811,222	2,928,178	97,230	3,800,155	4,204	376,245	1,608,065	10,876,134	11,165,174
Welland and Sault Ste. Marie ²	—	14,729	—	—	—	—	—	32,467	47,196	79,923
Sault Ste. Marie only ²	—	24,790	200	2,100	—	61,928	28,120	451,693	568,831	705,380
Totals	1,843,539	8,352,372	3,142,362	1,539,216	4,377,029	71,648	491,074	7,099,867	26,917,107	23,840,810

¹ Includes traffic using Lachine canal.

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

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

	Upbound									
	Canada to		United States to		Other countries to		Total to			
	Canada	United States	Canada	United States	Canada	United States	Canada	United States		
	number									
St. Lawrence section	198	893	—	3,008	148	193	346	4,094		
Welland section	1	733	352	—	14	193	367	926		
Sault Ste. Marie section	5,515	131	1,160	5,301	2	—	8,677	5,432		
Totals	5,714	1,757	1,512	8,309	164	386	7,390	10,452		
	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	17	—	83	1,187	3,288	124	1,204	3,288	207	
Welland section	5	—	7	1,182	—	132	1,187	—	139	
Sault Ste. Marie section	78,783	—	—	16,196	45,796	—	94,979	45,796	—	
Totals	78,805	—	90	18,565	49,084	256	98,007	49,084	346	

TABLE 53. Water Freight Charges on the Great Lakes for Wheat, 1961 and 1960

Port William—Port Arthur to	1961			1960		
	Average charge per bushel ¹	Average charge per ton	Average charge per ton-mile	Average charge per bushel ¹	Average charge per ton	Average charge per ton-mile
	cents	\$	cents	cents	\$	cents
Montreal:						
April	13.00	4.33	0.353	13.00	4.33	0.353
May	13.00	4.33	0.353	13.00	4.33	0.353
June	13.00	4.33	0.353	13.00	4.33	0.353
July	13.00	4.33	0.353	13.00	4.33	0.353
August	13.00	4.33	0.353	13.00	4.33	0.353
September	13.00	4.33	0.353	13.00	4.33	0.353
October	13.01	4.33	0.353	13.00	4.33	0.353
November	13.15	4.38	0.357	13.00	4.33	0.353
December	13.00	4.33	0.353	13.00	4.33	0.353
Average	13.02	4.34	0.353	13.00	4.33	0.353
Winter storage	16.50	5.50	0.448	—	—	—
Goderich and Georgian Bay ports:						
April	5.00	1.67	0.310	5.01	1.67	0.310
May	5.00	1.67	0.310	5.00	1.67	0.310
June	5.00	1.67	0.310	5.00	1.67	0.310
July	5.00	1.67	0.310	5.00	1.67	0.310
August	5.00	1.67	0.310	5.00	1.67	0.310
September	5.00	1.67	0.310	5.00	1.67	0.310
October	5.10	1.70	0.316	5.02	1.67	0.310
November	5.06	1.69	0.314	5.04	1.68	0.312
December	5.39	1.80	0.335	5.67	1.89	0.351
Average	5.06	1.69	0.314	5.05	1.68	0.312
Winter storage	9.90	3.30	0.613	9.54	3.18	0.591
Port Colborne:						
April	6.50	2.17	0.256	6.50	2.17	0.256
May	6.50	2.17	0.256	6.50	2.17	0.256
June	6.50	2.17	0.256	6.50	2.17	0.256
July	6.50	2.17	0.256	6.50	2.17	0.256
August	6.50	2.17	0.256	6.50	2.17	0.256
September	6.50	2.17	0.256	6.50	2.17	0.256
October	6.50	2.17	0.256	6.50	2.17	0.256
November	6.53	2.16	0.257	6.50	2.17	0.256
December	6.50	2.17	0.256	6.50	2.17	0.256
Average	6.50	2.17	0.256	6.50	2.17	0.256
Winter Storage	11.24	3.75	0.442	11.21	3.74	0.441
Buffalo:						
April	—	—	—	—	—	—
May	8.00	2.67	0.310	8.00	2.67	0.310
June	8.00	2.67	0.310	8.00	2.67	0.310
July	8.00	2.67	0.310	—	—	—
August	—	—	—	—	—	—
September	—	—	—	—	—	—
October	—	—	—	8.00	2.67	0.310
November	—	—	—	8.00	2.67	0.310
December	—	—	—	—	—	—
Average	8.00	2.67	0.310	8.00	2.67	0.310
Winter storage	—	—	—	—	—	—
Port Colborne to Montreal:						
April	7.03	2.34	0.616	6.69	2.23	0.587
May	7.50	2.50	0.658	7.00	2.33	0.613
June	7.44	2.48	0.653	7.47	2.49	0.655
July	7.50	2.50	0.658	7.18	2.39	0.629
August	7.50	2.50	0.658	7.50	2.50	0.658
September	7.50	2.50	0.658	7.40	2.47	0.650
October	7.50	2.50	0.658	7.50	2.50	0.658
November	7.61	2.55	0.671	7.50	2.50	0.658
December	—	—	—	—	—	—
Average	7.45	2.48	0.654	6.96	2.32	0.611

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

TABLE 54. Water Freight Charges on the Great Lakes for Barley and Oats, 1961

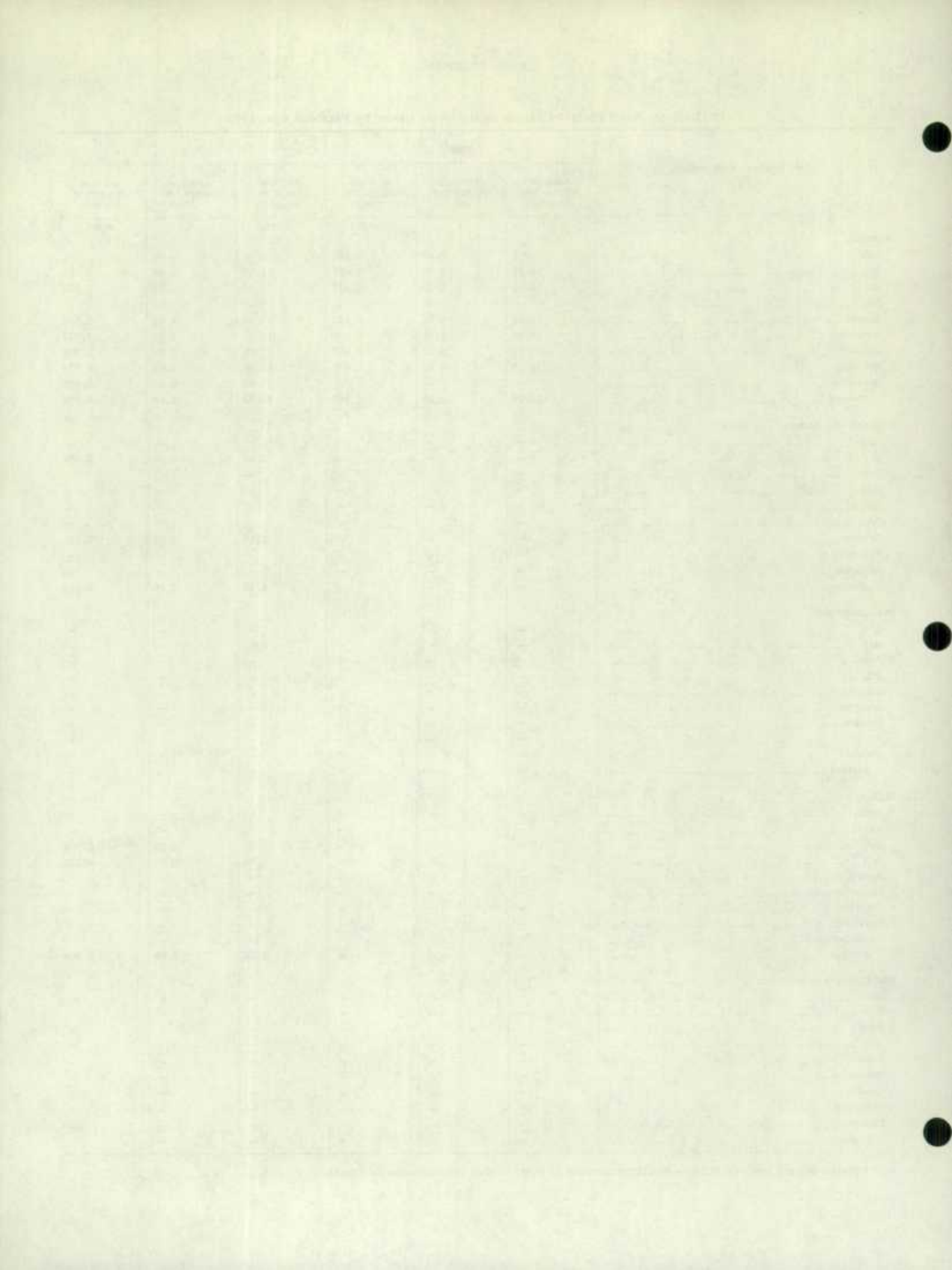
Fort William—Port Arthur to	Barley			Oats		
	cents Average charge per bushel ¹	Average charge per ton	cents Average charge per ton-mile	cents Average charge per bushel ¹	Average charge per ton	cents Average charge per ton-mile
	cents	\$	cents	cents	\$	cents
Montreal:						
April	12.25	5.10	0.415	10.00	5.88	0.479
May	12.25	5.10	0.415	10.00	5.88	0.479
June	12.25	5.10	0.415	10.00	5.88	0.479
July	12.25	5.10	0.415	10.00	5.88	0.479
August	12.25	5.10	0.415	10.00	5.88	0.479
September	12.25	5.10	0.415	10.00	5.88	0.479
October	12.25	5.10	0.415	10.00	5.88	0.479
November	12.43	5.18	0.422	10.25	6.03	0.491
December	12.35	5.15	0.419	10.11	5.95	0.485
Average	12.31	5.13	0.418	10.08	5.93	0.483
Goderich and Georgian Bay ports:						
April	4.75	1.98	0.368	4.50	2.65	0.493
May	4.75	1.98	0.368	4.50	2.65	0.493
June	4.75	1.98	0.368	4.50	2.65	0.493
July	4.75	1.98	0.368	4.50	2.65	0.493
August	4.75	1.98	0.368	4.53	2.66	0.494
September	4.75	1.98	0.368	4.50	2.65	0.493
October	5.05	2.10	0.390	4.83	2.84	0.528
November	5.07	2.11	0.392	4.76	2.80	0.520
December	5.62	2.34	0.435	5.04	2.96	0.550
Average	4.96	2.07	0.385	4.60	2.71	0.504
Port Colborne:						
April	6.25	2.60	0.307	6.00	3.53	0.416
May	6.25	2.60	0.307	6.00	3.53	0.416
June	—	—	—	—	—	—
July	—	—	—	6.00	3.53	0.416
August	—	—	—	—	—	—
September	—	—	—	—	—	—
October	—	—	—	—	—	—
November	6.73	2.80	0.330	6.25	3.68	0.434
December	—	—	—	—	—	—
Average	6.49	2.70	0.318	6.10	3.59	0.423
Buffalo:						
April	—	—	—	—	—	—
May	7.75	3.23	0.375	—	—	—
June	—	—	—	—	—	—
July	—	—	—	—	—	—
August	7.50	3.12	0.362	—	—	—
September	—	—	—	—	—	—
October	8.00	3.33	0.386	—	—	—
November	8.00	3.33	0.386	—	—	—
December	8.00	3.33	0.386	—	—	—
Average	7.88	3.28	0.381	—	—	—
Port Colborne to Montreal:						
April	—	—	—	—	—	—
May	—	—	—	—	—	—
June	6.00	2.50	0.658	—	—	—
July	—	—	—	—	—	—
August	6.00	2.50	0.658	—	—	—
September	—	—	—	—	—	—
October	6.00	2.50	0.658	—	—	—
November	—	—	—	—	—	—
December	—	—	—	—	—	—
Average	6.00	2.50	0.658	—	—	—

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

TABLE 55. Water Freight Charges on the Great Lakes for Flax and Rye, 1961

Fort William—Port Arthur to	Flax			Rye		
	Average charge per bushel ¹	Average charge per ton	Average charge per ton-mile	Average charge per bushel ¹	Average charge per ton	Average charge per ton-mile
	cents	\$	cents	cents	\$	cents
Montreal:						
April	14.00	5.00	0.407	—	—	—
May	14.00	5.00	0.407	13.00	4.64	0.378
June	14.00	5.00	0.407	13.00	4.64	0.378
July	—	—	—	—	—	—
August	14.00	5.00	0.407	13.00	4.64	0.378
September	14.00	5.00	0.407	13.00	4.64	0.378
October	14.00	5.00	0.407	13.00	4.64	0.378
November	14.00	5.00	0.407	13.03	4.65	0.379
December	—	—	—	13.00	4.64	0.378
Average	14.00	5.00	0.407	13.02	4.64	0.378
Goderich and Georgian Bay ports:						
April	—	—	—	—	—	—
May	—	—	—	5.50	1.96	0.364
June	—	—	—	—	—	—
July	—	—	—	—	—	—
August	—	—	—	—	—	—
September	—	—	—	—	—	—
October	—	—	—	5.42	1.94	0.361
November	—	—	—	—	—	—
December	—	—	—	—	—	—
Average	—	—	—	5.46	1.95	0.362
Port Colborne:						
April	—	—	—	—	—	—
May	—	—	—	—	—	—
June	—	—	—	—	—	—
July	—	—	—	—	—	—
August	—	—	—	—	—	—
September	—	—	—	—	—	—
October	—	—	—	—	—	—
November	—	—	—	—	—	—
December	—	—	—	—	—	—
Average	—	—	—	—	—	—
Buffalo:						
April	—	—	—	—	—	—
May	—	—	—	—	—	—
June	—	—	—	7.00	2.50	0.290
July	—	—	—	8.00	2.86	0.332
August	—	—	—	—	—	—
September	—	—	—	—	—	—
October	—	—	—	—	—	—
November	—	—	—	—	—	—
December	—	—	—	—	—	—
Average	—	—	—	7.44	2.66	0.309
Port Colborne to Montreal:						
April	—	—	—	—	—	—
May	—	—	—	—	—	—
June	—	—	—	—	—	—
July	—	—	—	—	—	—
August	—	—	—	—	—	—
September	—	—	—	—	—	—
October	—	—	—	—	—	—
November	—	—	—	—	—	—
December	—	—	—	—	—	—
Average	—	—	—	—	—	—

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



APPENDIX TO TABLE 1
Total Traffic through Canadian Canals, 1960 and 1961
Pages 14 and 15

No.	Registry	St. Lawrence	Welland	Sault Ste. Marie	St. Peter's	Canso
		Cargo carried, by registry of vessel				
64	Canadian vessels	14,389,220	21,035,281	1,085,342	1,358	614,842
65	United States vessels	526,488	1,800,679	30,584	—	—
66	United Kingdom vessels ¹	3,072,820	3,705,988	19,476	108	21,581
67	Other foreign vessels	5,684,297	4,862,422	5,548	—	65,974

¹ Includes other British Commonwealth.

¹ Includes other British Commonwealth.

Richelieu river Richelieu river	Ottawa river Ottawa river	Rideau Rideau	Murray Murray	Trent Trent	St. Andrew's St. Andrew's	Total		No.
						1961	1960	
						Cargo carried, by registry of vessel		
						1961	1960	
94,529	196,200	—	822	74	8,286	37,425,954	34,072,117	64
94,529	196,200	—	—	—	—	2,357,751	2,870,547	65
—	—	—	—	—	8,286	6,820,750	5,139,179	66
—	777	—	—	—	—	10,618,241	10,865,040	67
—	—	—	—	—	—	6,820,750	5,139,179	66
—	—	—	—	—	—	10,618,241	10,865,040	67

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SECTION III

OTHER CANADIAN CANALS

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

	From	To	Length of channel miles	Locks				
				Number	Minimum dimensions			
					Length	Width	Depth	
						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, 1952 - 61

	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961
Vessel transit - Up	217	236	274	373	209	244	198	198	275	273
Down	261	269	296	411	221	231	199	184	280	274
Totals	478	505	570	784	430	475	397	382	555	547
Registered net tons - Up	8,226	7,004	7,433	11,712	5,712	8,300	4,973	4,173	8,138	4,938
Down	10,104	8,344	7,192	15,612	5,232	6,938	5,091	4,377	7,693	5,745
Totals	18,330	15,348	14,625	27,324	10,944	15,238	10,064	8,550	15,831	10,683
Cargo tons - Up	1,481	2,052	1,594	1,901	727	1,389	863	262	142	861
Down	2,321	1,789	1,637	4,882	973	3,252	848	557	581	605
Totals	3,802	3,841	3,231	6,783	1,700	4,641	1,711	819	723	1,466
Season of navigation:										
First vessel passage	April 26	April 7	April 10	April 2	April 19	April 22	March 31	April 20	April 4	April 27
Last vessel passage	Jan. 7/53	Dec. 21	Jan. 10/55	Jan. 12/56	Dec. 21	Dec. 28	Dec. 19	Dec. 31	Dec. 22	Dec. 10

TABLE 58. Traffic on the St. Peter's Canal by Kind and Registry of Vessel, 1961

Kind and registry	Upbound							Downbound						
	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel:														
Canada	4	4	8	360	582	401	-	7	1	8	289	494	75	-
United States	2	-	2	30	39	-	-	-	-	-	-	-	-	-
Totals	6	4	10	390	621	401	-	7	1	8	289	494	75	-
Pleasure craft:														
Canada	11	-	11	229	273	-	4	12	-	12	318	377	-	-
United States	30	-	30	499	534	-	18	29	-	29	499	536	-	-
Totals	41	-	41	728	807	-	22	41	-	41	817	913	-	-
All other types:														
Canada	206	14	220	3,665	5,273	352	-	123	101	224	4,359	7,077	530	-
United States	1	-	1	17	17	-	-	1	-	1	280	395	-	-
United Kingdom	-	1	1	138	178	108	-	-	-	-	-	-	-	-
Totals	207	15	222	3,820	5,468	460	-	124	101	225	4,639	7,472	530	-
Grand totals	254	19	273	4,938	6,896	861	22	172	102	274	5,745	8,879	605	-

TABLE 59. Number and Tonnage of Vessels Using the St. Peter's Canal by Origin and Destination, Registry and Rig, 1961

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	228	3,783	5,163	8	93	110	239	4,254	6,128
	United States	—	—	—	5	74	74	1	18	17	6	90	91
	United Kingdom	—	—	—	1	138	178	—	—	—	1	138	178
Canada to United States	United States	—	—	—	1	10	10	—	—	—	1	10	10
United States to Canada	United States	—	—	—	25	426	469	1	20	20	26	446	489
	Totals	3	378	855	260	4,431	5,894	10	129	147	273	4,938	8,896
Downbound:													
Canada to Canada	Canada	7	1,070	2,746	233	3,791	5,037	4	105	165	244	4,968	7,948
	United States	—	—	—	6	103	103	2	32	34	8	135	137
Canada to United States	United States	—	—	—	22	644	794	—	—	—	22	644	794
	Totals	7	1,070	2,746	261	4,538	5,934	6	137	199	274	5,745	8,879
	Grand totals	10	1,448	3,601	521	8,969	11,828	16	266	346	547	10,683	15,775

TABLE 60. Commodities and Passengers Carried through the St. Peter's Canal by Country of Loading and Unloading, 1961

Commodity	Canada to Canada		Canada to United States		United States to Canada		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Fish and marine animals	6	526	—	—	—	—	6	526
Food, beverages and tobacco, n.e.s.	700	—	—	—	—	—	700	—
Miscellaneous freight, n.e.s.	155	79	—	—	—	—	155	79
Totals	861	605	—	—	—	—	861	605
Passengers	22	—	—	—	—	—	22	—

CANSO CANAL

TABLE 61. Location and Description

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

TABLE 62. Historical Summary, 1956 - 61

	1956	1957	1958	1959	1960	1961
Vessel transit—Up	1,685	660	616	625	609	589
Down	1,724	611	626	621	619	591
Totals	3,409	1,271	1,242	1,246	1,228	1,180
Registered net tons—Up	116,936	224,920	274,703	346,793	374,478	346,282
Down	132,164	186,507	262,409	284,839	389,968	352,542
Totals	249,100	411,427	537,112	631,632	764,446	698,824
Cargo tons—Up	33,103	233,908	364,044	476,318	606,339	495,540
Down	35,292	161,887	162,562	198,188	197,037	208,857
Totals	68,395	395,795	526,606	674,506	803,376	704,397
Season of navigation:						
First vessel passage	April 9	Jan. 2 ¹	March 14	April 17	April 17	May 12
Last vessel passage	Jan 10/57	Dec. 31	Dec. 25	Dec. 31	Jan. 16/61	Dec. 31

¹ Canal not in use from January 11 to April 15.

TABLE 63. Traffic on the Canso Canal by Kind and Registry of Vessel, 1961

Kind	Registry	Upbound							Downbound						
		Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
		In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel	Canada	61	167	228	260,552	432,543	460,557	—	108	111	219	255,123	426,905	142,918	—
	United States	—	—	—	—	—	—	—	1	—	1	1,215	2,031	—	—
	United Kingdom	2	6	8	14,082	25,948	11,386	—	1	4	5	6,921	13,319	10,195	—
	Other countries	22	12	34	38,527	67,335	15,160	—	6	29	35	41,924	69,168	50,814	—
	Totals	85	185	270	313,161	525,826	487,103	—	116	144	260	305,183	511,423	203,927	—
Pleasure craft	Canada	6	—	6	178	243	—	—	3	—	3	85	101	—	—
	United States	1	—	1	58	82	—	—	1	—	1	58	82	—	—
	Totals	7	—	7	236	325	—	—	4	—	4	143	183	—	—
All other types	Canada	224	81	305	29,779	54,844	8,437	—	205	112	317	40,322	73,540	2,930	—
	United States	2	—	2	2,678	4,514	—	—	5	—	5	6,296	7,080	—	—
	United Kingdom	5	—	5	428	3,068	—	—	4	—	4	364	2,476	—	—
	Other countries	—	—	—	—	—	—	—	1	—	1	234	534	—	—
	Totals	231	81	312	32,885	62,426	8,437	—	215	112	327	47,216	83,630	2,930	—
Grand totals	323	266	589	346,282	588,577	495,540	—	335	256	591	352,542	595,236	206,857	—	

TABLE 64. Number and Tonnage of Vessels Using the Canso Canal by Origin and Destination, Registry and Rig, 1961

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	85	129,034	223,014	442	151,184	249,160	8	2,645	3,344	535	282,863	475,518
	United States	—	—	—	1	1,228	2,714	—	—	—	1	1,228	2,714
	United Kingdom	11	11,570	23,852	1	1,856	2,338	—	—	—	12	13,226	26,190
	Other countries	—	—	—	17	9,635	16,072	—	—	—	17	9,635	16,072
United States to Canada	Canada	—	—	—	3	617	1,212	—	—	—	3	617	1,212
	United States	1	1,450	1,800	1	58	82	—	—	—	2	1,508	1,882
	United Kingdom	—	—	—	1	1,284	2,826	—	—	—	1	1,284	2,826
	Other countries	4	6,308	11,016	10	15,808	28,304	—	—	—	14	22,116	39,320
Other Commonwealth to Canada	Other countries	1	1,090	2,255	1	1,242	2,468	—	—	—	2	2,332	4,723
Other Europe to Canada	Other countries	1	4,444	7,220	—	—	—	—	—	—	1	4,444	7,220
Other countries to Canada	Canada	1	7,029	10,900	—	—	—	—	—	—	1	7,029	10,900
Totals		104	160,825	280,057	477	182,712	305,176	8	2,645	3,344	589	346,282	588,577
Downbound:													
Canada to Canada	Canada	88	136,476	233,988	431	151,494	253,358	8	1,492	1,784	527	289,462	489,128
	United States	—	—	—	1	400	840	—	—	—	1	400	840
	United Kingdom	6	4,078	9,404	2	1,421	3,004	—	—	—	8	5,499	12,408
	Other countries	1	654	1,205	14	10,934	17,838	1	1,656	2,338	16	13,244	21,381
Canada to United States	Canada	1	978	1,575	11	5,092	9,843	—	—	—	12	6,068	11,418
	United States	1	1,450	1,800	2	1,858	1,882	1	1,046	1,240	4	4,354	4,922
	United Kingdom	1	1,786	3,387	—	—	—	—	—	—	1	1,786	3,387
	Other countries	5	8,038	13,371	10	10,212	17,955	—	—	—	15	18,248	31,326
Canada to Other Commonwealth	Other countries	—	—	—	1	1,604	2,588	—	—	—	1	1,604	2,588
Canada to Other Europe	Other countries	—	—	—	2	2,728	5,017	—	—	—	2	2,728	5,017
Canada to Other countries	Other countries	—	—	—	1	1,890	2,170	—	—	—	1	1,890	2,170
United States to Canada	United States	1	1,600	1,600	—	—	—	—	—	—	1	1,600	1,600
United States to United States	United States	—	—	—	1	1,215	2,031	—	—	—	1	1,215	2,031
Other Europe to Canada	Other countries	1	4,444	7,220	—	—	—	—	—	—	1	4,444	7,220
Totals		105	159,500	273,548	476	188,848	316,326	10	4,194	5,362	591	352,542	595,236
Grand totals		209	320,425	553,605	953	371,560	621,502	18	6,839	8,706	1,180	698,824	1,183,813

TABLE 65. Commodities and Passengers Carried through the Canso Canal by Country of Loading and Unloading, 1961

Commodity	Canada to Canada		Canada to United States		Canada to other countries		United States to Canada		Other countries to Canada		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Fish and marine animals	1,194	5,427	305	5,512	—	2,000	—	—	—	—	1,499	12,939
Barley	1,300	—	—	—	—	—	—	—	—	—	1,300	—
Wheat	—	1,700	—	—	—	—	—	—	—	—	—	1,700
Flour	4,055	1,800	—	—	—	—	—	—	—	—	4,055	1,800
Grain, meal and cereals, n.e.s.	2,200	3,100	—	—	—	—	—	—	—	—	2,200	3,100
Potatoes	148	2,117	—	10,513	—	2,300	—	—	—	—	148	14,930
Food, feed, beverages and tobacco, n.e.s.	—	220	—	—	—	—	—	—	—	—	—	220
Pulpwood	—	—	—	—	1,433	6,609	—	—	—	—	1,433	6,609
Stone, crushed and broken	—	5,002	—	—	—	—	—	—	—	—	—	5,002
Gypsum	55,633	—	—	—	—	—	—	—	—	—	55,633	—
Salt	320	—	—	28,551	—	—	300	—	—	—	620	28,551
Sulphur	—	—	—	—	—	—	3,659	—	—	—	3,659	—
Wood fabricated materials	8	261	—	—	—	1,180	—	—	—	—	8	1,441
Fish and marine animal oils	—	—	—	872	—	—	—	—	—	—	—	872
Chemicals and chemical products	256	1,802	—	—	—	—	250	—	—	—	506	1,802
Fertilizers	—	—	—	—	—	—	5,388	—	—	—	5,388	—
Gasoline	160,865	57,836	—	—	—	—	—	—	—	—	160,865	57,836
Fuel oil	251,678	4,915	—	—	—	—	—	2,927	—	—	254,605	4,915
Pig iron	—	—	—	2,980	—	—	—	—	—	—	—	2,980
Cement	—	52,884	—	—	—	—	—	—	—	—	—	52,884
Miscellaneous fabricated materials, n.e.s. ...	12	553	—	—	—	—	—	—	—	—	12	553
Miscellaneous freight, n.e.s.	2,088	1,810	—	352	—	6,581	21	—	1,500	—	3,609	8,743
Totals	479,757	139,427	305	48,760	1,433	18,670	9,618	—	4,427	—	495,540	206,857
Passengers	No.	—	—	—	—	—	—	—	—	—	—	—

RICHELIEU RIVER CANAL

TABLE 66. Location and Description

	From	To	Length of channel	Locks				
				Number	Minimum dimensions			
					Length	Width	Depth	
			miles	feet				
Richelieu river:								
St. Ours		St. Ours, Que.	0.12	1	339	45	12	
Chambly	Chambly	St. Johns, Que.	11.76	9	120.5	23.25	6.5	

TABLE 67. Historical Summary, 1952-61

	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961
Vessel transits — Up	307	330	356	354	401	379	343	415	395	370
Down	307	325	353	347	307	382	345	407	401	361
Totals	614	655	709	701	708	761	688	822	796	731
Registered net tons — Up	44,318	48,917	55,644	50,241	56,166	61,634	54,390	60,918	62,036	56,038
Down	44,548	48,858	55,919	49,767	45,484	61,606	54,563	61,664	61,991	53,867
Totals	88,866	97,775	111,563	100,008	101,650	123,240	108,953	122,582	124,027	109,905
Cargo tons — Up	67,611	69,547	85,165	70,681	76,613	85,429	81,557	78,758	81,364	80,822
Down	21,362	24,832	24,273	26,449	22,350	26,937	26,574	30,244	25,335	13,707
Totals	88,973	94,379	109,438	97,130	98,963	112,366	108,131	109,002	106,699	94,529
Season of navigation:										
First vessel passage	April 19	April 15	April 17	April 23	April 16	April 17	April 17	April 15	April 4	April 20
Last vessel passage	Nov. 22	Nov. 29	Dec. 2	Dec. 1	Nov. 30	Dec. 1	Nov. 29	Dec. 5	Nov. 27	Dec. 2

OTTAWA RIVER CANALS

TABLE 71. Location and Description

		Length of channel	Locks			
			Number	Minimum dimensions		
				Length	Width	Depth
		miles		feet		
Ottawa river canals:						
St. Anne	Junction of St. Lawrence and Ottawa river ..	0.12	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, 1952-61

	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961
Vessel transits - Up.....	478	579	461	477	779	804	466	846	667	489
Down	488	576	465	475	779	806	462	821	683	486
Totals	966	1,155	926	952	1,558	1,810	928	1,667	1,350	975
Registered net tons - Up.....	116,622	142,492	111,346	117,699	166,152	209,889	116,191	201,781	161,979	120,679
Down	118,374	142,428	111,994	117,955	166,530	208,853	115,871	196,402	166,089	119,644
Totals	234,996	284,920	223,340	235,654	332,682	418,742	232,062	398,183	328,068	240,323
Cargo tons - Up.....	430	735	445	425	-	180	-	43	100	777
Down	200,721	242,297	190,365	206,100	283,500	356,460	189,980	327,600	278,100	196,200
Totals	201,151	243,032	190,810	206,525	283,500	356,640	189,980	327,643	278,200	196,977
Season of navigation:										
First vessel passage	May 1	April 15	April 30	April 26	April 25	April 17	April 23	May 2	May 3	April 24
Last vessel passage	Nov. 12	Nov. 20	Oct. 14	Nov. 1	Nov. 23	Nov. 30	Nov. 26	Nov. 19	Nov. 19	Nov. 10

TABLE 73. Traffic on the Ottawa River Canals by Kind and Registry of Vessel, 1961

Kind	Registry	Upbound							Downbound						
		Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
		In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel	Canada.....	222	-	222	108,609	108,650	-	-	6	218	224	109,521	109,581	196,200	-
	United Kingdom	-	7	7	1,317	2,877	777	-	7	-	7	1,317	2,877	-	-
	Totals	222	7	229	109,926	111,527	777	-	13	218	231	110,838	112,458	196,200	-
All other types	Canada.....	260	-	260	10,753	23,081	-	-	255	-	255	8,806	19,776	-	-
	Grand totals ..	482	7	489	120,679	134,608	777	-	268	218	486	119,644	132,234	196,200	-

TABLE 74. Number and Tonnage of Vessels using the Ottawa River Canals by Origin and Destination, Registry and Rig, 1961

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.....	256	10,101	22,343	226	109,261	109,388	482	119,362	131,731
	United Kingdom	7	1,317	2,877	-	-	-	7	1,317	2,877
	Totals	263	11,418	25,220	226	109,261	109,388	489	120,679	134,608
Downbound:										
Canada to Canada.....	Canada.....	253	8,748	19,632	226	109,579	109,725	479	118,327	129,357
	United Kingdom	7	1,317	2,877	-	-	-	7	1,317	2,877
	Totals	260	10,065	22,509	226	109,579	109,725	486	119,644	132,234
	Grand totals	523	21,483	47,729	452	218,840	219,113	975	240,323	266,842

TABLE 75. Commodities and Passengers Carried through the Ottawa River Canals by Country of loading and Unloading, 1961

	Canada to Canada		Canada to United States		United States to Canada		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Sand and gravel	—	196,200	—	—	—	—	—	196,200
Machinery, equipment and parts	777	—	—	—	—	—	777	—
Totals	777	196,200	—	—	—	—	777	196,200
Passengers	No.	—	—	—	—	—	—	—

RIDEAU CANAL

TABLE 76. Location and Description

	From	To	Length of channel	Locks			
				Number	Minimum dimensions		
					Length	Width	Depth
			miles	feet			
Rideau canal	Ottawa	Kingston	123.53	47	134	33	5.5
	Rideau Lake	Perth (Tay Branch)	6.82	2	134	33	5.5

TABLE 77. Historical Summary 1952-61

	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961
Vessel transits—Up	97	130	94	72	64	149	32	32	39	35
Down	86	133	86	66	56	145	45	37	55	72
Totals	183	263	180	138	120	294	77	69	94	107
Registered net tons—Up	3,390	3,751	4,083	2,308	2,035	5,630	882	1,081	1,497	1,136
Down	3,129	3,770	3,654	2,180	2,006	5,587	1,515	1,262	1,629	1,740
Totals	6,519	7,521	7,737	4,488	4,041	11,217	2,397	2,343	3,126	2,876
Cargo tons—Up	382	849	357	248	205	154	37	53	72	—
Down	539	682	1,133	185	194	5,690	39	5	—	—
Totals	921	1,531	1,490	413	399	5,844	76	58	72	—
Season of navigation:										
First vessel passage	May 1	May 1	April 30	May 2	May 1	May 1	May 3	May 9	May 18	May 11
Last vessel passage	Nov. 25	Nov. 30	Nov. 18	Nov. 21	Nov. 20	Nov. 18	Oct. 21	Nov. 2	Nov. 1	Nov. 4

TABLE 78. Traffic on the Rideau Canal by Kind and Registry of Vessel, 1961

Kind of vessel	Registry	Upbound							Downbound						
		Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passenger	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passenger
		In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel	Canada	10	—	10	373	386	—	—	17	—	17	483	531	—	10
	United States	11	—	11	373	498	—	39	25	—	25	628	738	—	83
	Totals	4	—	4	49	52	—	20	13	—	13	148	179	—	61
All other types	Canada	15	—	15	422	550	—	59	38	—	38	776	917	—	144
	Grand totals	10	—	10	341	421	—	4	17	—	17	481	597	—	37
		35	—	35	1,136	1,357	—	63	72	—	72	1,740	2,045	—	191

TABLE 79. Number and Tonnage of Vessels Using the Rideau Canal by Origin and Destination, Registry and Rig, 1961

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	1	137	192	20	577	727	10	373	386	31	1,087	1,305
	United States	—	—	—	4	49	52	—	—	—	4	49	52
	Totals	1	137	192	24	626	779	10	373	386	35	1,136	1,357
Downbound:													
Canada to Canada	Canada	—	—	—	41	897	1,131	18	695	735	59	1,592	1,866
	United States	—	—	—	13	148	179	—	—	—	13	148	179
	Totals	—	—	—	54	1,045	1,310	18	695	735	72	1,740	2,045
	Grand totals	1	137	192	78	1,671	2,089	28	1,068	1,121	107	2,876	3,402

TABLE 80. Commodities and Passengers Carried through the Rideau Canal by Country of Loading and Unloading, 1961

Commodity	Canada to Canada		United States to Canada		Total		
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	
Passengers ¹	No.	63	191	—	—	63	191

¹ Exclusive of 22,093 passengers on sightseeing pleasure boat cruises and 130,185 passengers carried in pleasure craft.

MURRAY CANAL

TABLE 81. Location and Description

	From	To	Length of channel	Locks			
				Number	Minimum dimensions		
					Length	Width	Depth
Murray canal	Isthmus of Murray	Bay of Quinte, Ont.	miles				
			7.53	—	—	—	8.5

TABLE 82. Historical Summary 1952-61

	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961
Vessel transits — Up	76	63	73	39	115	154	152	160	113	98
Down	18	21	31	14	75	78	100	94	81	107
Totals	94	84	104	53	190	232	252	254	194	205
Registered net tons — Up	32,567	30,775	34,803	19,464	24,675	38,434	34,009	31,126	17,171	8,407
Down	1,233	1,640	5,234	1,866	1,997	2,569	5,327	5,333	2,012	4,452
Totals	33,800	32,415	40,037	21,330	26,672	41,003	39,336	36,459	19,183	12,859
Cargo tons — Up	380	572	72	562	—	600	383	90	130	500
Down	—	104	200	105	—	190	—	—	—	322
Totals	380	676	272	667	—	790	383	90	130	822
Season of navigation:										
First vessel passage	April 26	April 16	April 10	April 8	May 26	April 13	April 22	April 17	April 19	May 1
Last vessel passage	Nov. 8	Dec. 9	Nov. 15	Nov. 17	Nov. 29	Dec. 8	Dec. 4	Nov. 27	Dec. 1	Nov. 29

TABLE 83. Traffic on the Murray Canal, by Kind and Registry of Vessel, 1961

Kind of vessel and registry	Upbound							Downbound						
	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel:														
Canada	17	1	18	6,763	10,328	500	—	17	3	20	2,893	3,240	311	—
Pleasure craft:														
Canada	44	—	44	789	999	—	—	53	—	53	923	1,170	—	21
United States	16	—	16	356	482	—	—	17	—	17	309	394	—	6
United Kingdom	—	—	—	—	—	—	—	1	—	1	27	30	—	—
Other countries	3	—	3	97	112	—	—	2	—	2	59	72	—	—
Totals	63	—	63	1,242	1,593	—	—	73	—	73	1,318	1,666	—	27
All other types:														
Canada	17	—	17	402	604	—	—	13	1	14	241	411	11	—
Grand totals	97	1	98	8,407	12,525	500	—	103	4	107	4,452	5,317	322	27

TABLE 84. Number and Tonnage of Vessels Using the Murray Canal by Origin and Destination, Registry and Rig 1961

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	1	963	1,643	43	913	1,268	28	2,169	2,378	72	4,045	5,339
	United States	—	—	—	4	99	128	—	—	—	4	99	132
	Other countries	—	—	—	3	97	112	—	—	—	3	97	112
Canada to United States	Canada	4	3,852	6,572	1	20	29	1	14	16	6	3,886	6,617
	United States	—	—	—	5	100	153	7	157	201	12	257	354
United States to Canada	Canada	—	—	—	1	23	25	—	—	—	1	23	25
	Totals	5	4,815	8,215	57	1,252	1,715	36	2,340	2,595	98	8,407	12,525
Downbound:													
Canada to Canada	Canada	1	219	564	44	806	1,118	38	2,956	3,044	83	3,981	4,726
	United States	—	—	—	4	51	63	1	12	18	5	63	81
	United Kingdom	—	—	—	1	27	30	—	—	—	1	27	30
	Other countries	—	—	—	2	59	72	—	—	—	2	59	72
Canada to United States	Canada	—	—	—	1	20	30	—	—	—	1	20	30
	United States	—	—	—	1	35	45	—	—	—	1	35	45
United States to Canada	Canada	—	—	—	1	15	20	2	41	45	3	56	65
	United States	—	—	—	4	65	84	7	146	184	11	211	268
	Totals	1	219	564	58	1,078	1,462	48	3,155	3,291	107	4,452	5,317
	Grand totals	6	5,034	8,779	115	2,330	3,177	84	5,495	5,886	205	12,859	17,842

TABLE 85. Commodities and Passengers Carried through the Murray Canal by Country of Loading and Unloading, 1961

Commodity	Canada to Canada		Canada to United States		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Non-ferrous metal scrap	500	—	—	—	500	—
Stone, crushed and broken	—	240	—	—	—	240
Iron and steel: pipes, tubes and fittings	—	82	—	—	—	82
Totals	500	322	—	—	500	322
Passengers	No.	—	27	—	—	27

TRENT CANAL
TABLE 86. Location and Description

	From	To	Length of channel miles	Locks				
				Number	Minimum dimensions			
					Length	Width	Depth	
					feet			
Trent canal	Trenton	Peterborough Lock	88.74	18	175	33	8	
	Peterborough Lock	Swift Rapids	135.71	24	134	33	6	
	Swift Rapids	Port Severn	16.00	(Marine railway)				4
	Port Severn Lock	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 1952 - 61

	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961
Vessel transits — Up	32	33	59	30	34	31	43	31	24	15
Down	40	38	71	36	47	41	45	37	23	22
Totals	72	71	130	66	81	72	88	68	47	37
Registered net tons — Up	427	498	771	455	544	480	631	499	316	178
Down	543	597	927	561	785	1,768	4,159	571	333	258
Totals	970	1,095	1,698	1,016	1,329	2,248	4,790	1,070	651	436
Cargo tons — Up	62	131	45	40	41	11	40	34	17	19
Down	73	108	125	62	248	63	35	49	47	55
Totals	135	239	170	102	289	74	75	83	64	74
Season of navigation:										
First vessel passage	May 12	May 13	May 5	May 11	May 25	May 16	May 12	May 15	Jun. 10	May 17
Last vessel passage	Nov. 12	Nov. 9	Nov. 9	Nov. 30	Nov. 30	Oct. 31	Oct. 31	Oct. 22	Nov. 23	Oct. 9

TABLE 88. Traffic on the Trent Canal by Kind and Registry of Vessel, 1961

Kind	Registry	Upbound							Downbound						
		Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
		In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel	Canada	—	12	12	132	178	19	28	1	16	17	186	240	55	43
Pleasure craft	Canada	3	—	3	46	50	—	9	4	—	4	62	70	—	18
	United States	—	—	—	—	—	—	—	1	—	1	10	12	—	5
	Totals	3	—	3	46	50	—	9	5	—	5	72	82	—	23
	Grand totals	3	12	15	178	228	19	37	6	16	22	258	322	55	66

TABLE 89. Number and Tonnage of Vessels Using the Trent Canal by Origin and Destination, Registry and Rig, 1961

Origin and destination	Country of registry	Steam			Motor			Total		
		Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Upbound:										
Canada to Canada	Canada	—	—	—	15	178	228	15	178	228
Downbound:										
Canada to Canada	Canada	—	—	—	21	248	310	21	248	310
United States to Canada ..	United States	—	—	—	1	10	12	1	10	12
	Totals	—	—	—	22	258	322	22	258	322
	Grand totals	—	—	—	37	436	550	37	436	550

TABLE 90. Commodities and Passengers Carried through the Trent Canal by Country of Loading and Unloading, 1961

Commodity	Canada to Canada		United States to Canada		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Gasoline	10	33	—	—	10	33
Fuel oil	9	22	—	—	9	22
Totals	19	55	—	—	19	55
Passengers ¹	No. 37	66	—	—	37	66

¹ Excluding 287,006 passengers carried in small boats.

ST. ANDREW'S CANAL

TABLE 91. Location and Description

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

TABLE 92. Historical Summary 1952-61

	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961
Vessel transits — Up	332	240	198	175	179	181	178	200	151	158
Down	330	242	198	178	180	181	178	198	150	167
Totals	662	482	396	353	359	362	356	398	301	325
Registered net tons — Up	26,707	25,137	14,085	19,289	15,317	13,950	12,486	12,251	8,296	10,581
Down	26,393	25,086	13,998	19,079	15,321	14,102	12,413	11,811	8,171	11,188
Totals	53,100	50,223	28,083	38,368	30,638	28,052	24,899	24,062	16,467	21,769
Cargo tons — Up	11,620	13,127	2,429	5,679	5,610	2,852	2,642	2,035	1,449	6,783
Down	4,583	2,688	3,601	2,433	2,472	2,617	2,028	1,898	2,650	1,503
Totals	16,203	15,815	6,030	8,112	8,082	5,469	4,670	3,933	4,099	8,286
Season of navigation:										
First vessel passage	May 13	May 21	May 27	June 30	June 28	May 20	May 13	May 14	June 4	May 21
Last vessel passage	Nov. 2	Nov. 3	Nov. 3	Oct. 31	Nov. 2	Nov. 2	Oct. 31	Oct. 31	Nov. 1	Oct. 27

TABLE 93. Traffic on the St. Andrew's Canal by Kind and Registry of Vessel, 1961

Kind of vessel and registry	Upbound							Downbound						
	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel:														
Canada	10	76	86	8,835	11,249	6,783	—	14	84	98	9,514	12,300	1,503	—
Pleasure craft:														
Canada	58	—	58	1,186	1,408	—	302	55	—	55	1,114	1,328	—	293
All other types:														
Canada	14	—	14	560	820	—	—	14	—	14	560	820	—	—
Grand totals	82	76	158	10,581	13,477	6,783	302	83	84	187	11,188	14,448	1,503	293

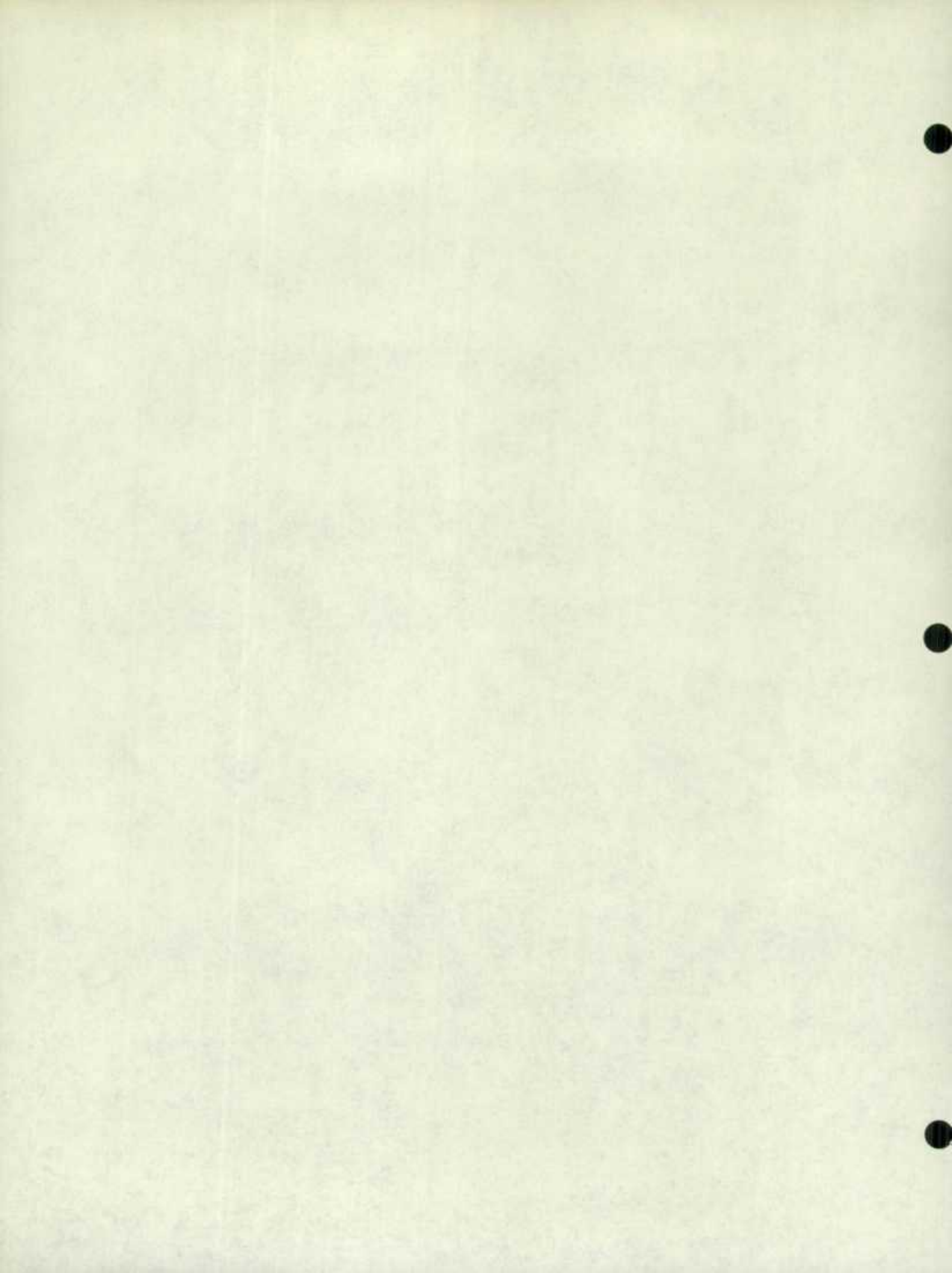
TABLE 94. Number and Tonnage of Vessels Using the St. Andrew's Canal by Origin and Destination, Registry and Rig, 1961

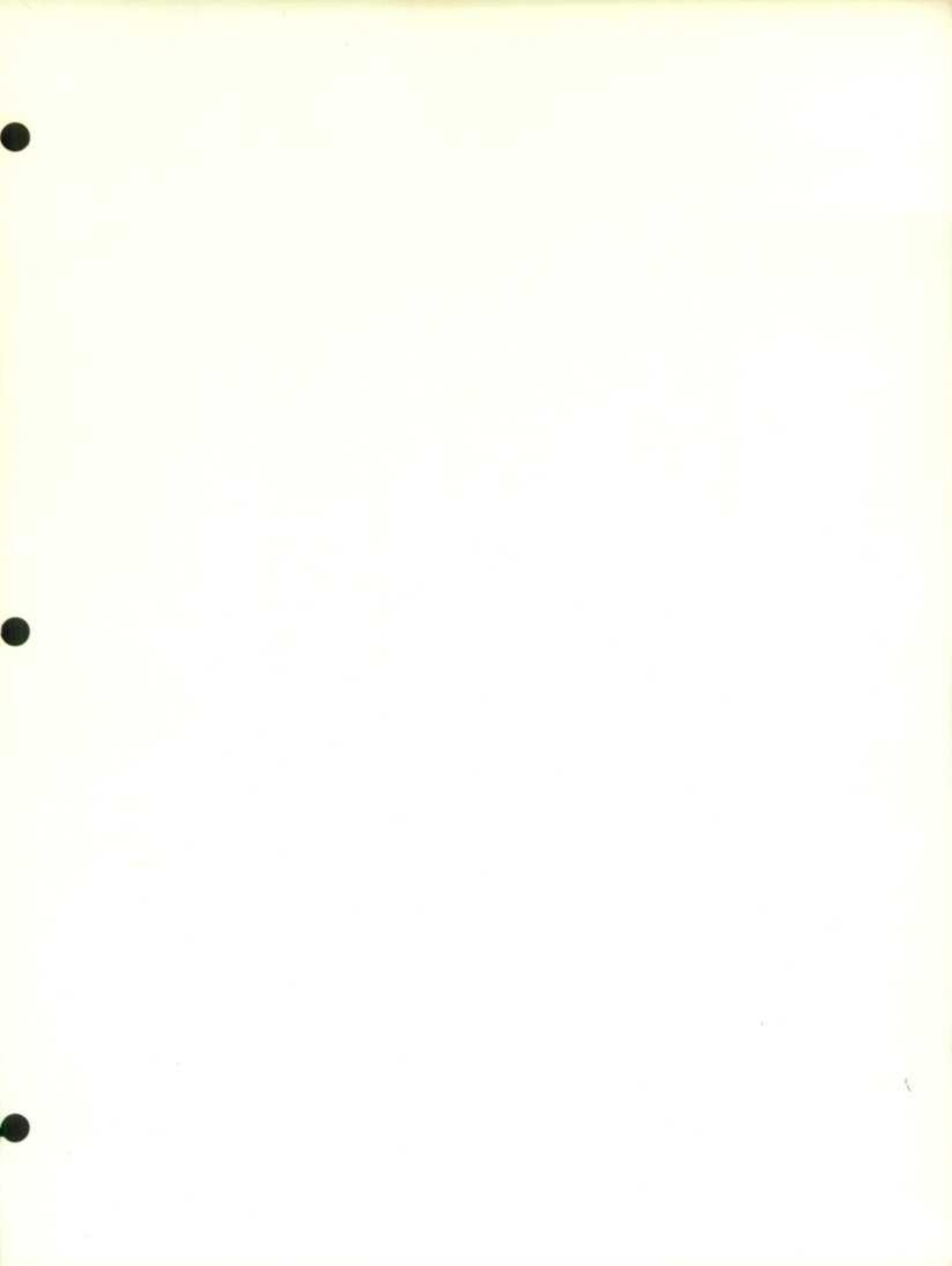
Origin and destination	Country of registry	Steam			Motor			Other			Total		
		Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Upbound:													
Canada to Canada	Canada	-	-	-	147	7,281	10,177	11	3,300	3,300	158	10,581	13,477
Downbound:													
Canada to Canada	Canada	-	-	-	154	7,408	10,668	13	3,780	3,780	167	11,188	14,448
	Grand totals	-	-	-	301	14,689	20,845	24	7,080	7,080	325	21,769	27,925

TABLE 95. Commodities and Passengers Carried through the St. Andrew's Canal by Country of Loading and Unloading, 1961

Commodity	Canada to Canada		Commodity	Canada to Canada	
	Upbound	Downbound		Upbound	Downbound
Fish and marine animals	633	-	Fuel oil	-	38
Wheat	-	166	Containers, empty	78	52
Podder and feed	-	12	Miscellaneous freight, n.e.s.	16	138
Food, beverages and tobacco, n.e.s.	15	516	Totals	6,783	1,503
Sand and gravel	6,031	-	Passengers ¹	302	293
Wood fabricated materials	-	86			
Gasoline	10	495			

¹ Excluding 4,774 passengers carried in small boats.





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