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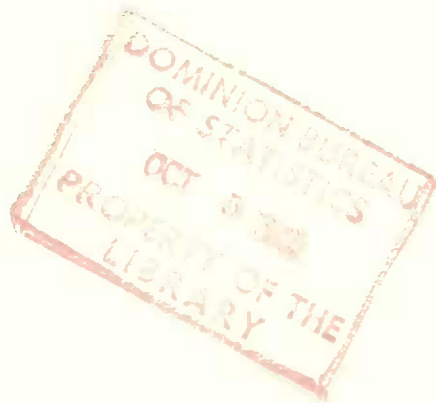
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CANADA

CANAL STATISTICS

1960



DOMINION BUREAU OF STATISTICS

CANAL STATISTICS, 1959

E R R A T A

Page 60

Please substitute the following for Table 50 in the 1959 annual report of Canal Statistics

TABLE 50. CARGO TONS CARRIED IN INTERLAKE TRAFFIC(1)

From lake or area	To						Total
	Lake Superior	Lake Michigan	Lake Huron	Lake Erie(2)	Lake Ontario(3)	St. Lawrence river	
Lake Superior .....	...	16,280,251(4)	3,010,102(4)	33,144,392(4)	4,009,648	1,780,093	58,224,486
Lake Michigan	1,287,110(4)	...	..	..	694,974	186,616	..
Lake Huron	1,811,682(4)	..	...	..	317,013	89,608	..
Lake Erie(2)	7,260,049(4)	..	..	...	4,974,054	1,829,026	..
Lake Ontario(3)	285,435	198,962	120,956	669,138	...	1,880,119	3,154,610
St. Lawrence river ..	50,427	152,031	25,695	5,728,076	2,568,976	...	8,525,205
Totals	10,694,703	..	..	..	12,564,665	5,765,462	..

- (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) Data obtained from United States Corps of Engineers' preliminary report of "Interlake Traffic".

ERRATA

Please substitute the following for Tables 47A and 47B in the 1959 annual report of Canal Statistics

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

Port	Unloaded			Loaded			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
Fort William—Port Arthur	284,286	3,656	287,942	3,859,910	—	3,859,910	4,144,196	3,658	4,147,854
Other Canadian Lake Superior ports	20,360	288	20,648	171,057	3,389	174,446	191,417	3,677	195,094
Little Current	—	—	—	5,543	—	5,543	5,543	—	5,543
Other Canadian Lake Huron ports	77,042	529	77,571	94,633	—	94,633	171,675	529	172,204
Other Georgian Bay ports	52,768	—	52,768	11,948	—	11,948	64,716	—	64,716
Sarnia	187,737	1,860	189,597	437,287	23,010	460,297	625,024	24,870	649,894
Windsor	123,486	2,041	125,527	35,325	1,290	36,615	158,811	3,331	162,142
Canadian St. Clair Lake and river and Detroit river ports	14,309	288	14,597	150,134	1,560	151,694	164,443	1,848	166,291
Port Colborne	174,983	3,940	178,923	1,280,363	1,258	1,281,621	1,455,346	5,198	1,460,544
Other Canadian Lake Erie ports	214,119	4,666	218,785	49,166	250	49,416	263,285	4,916	268,201
Thorold	701,119	342	701,461	21,207	150,753	201,960	722,326	181,095	903,421
Port Weller	72,295	—	72,295	—	—	—	72,295	—	72,295
Other Canadian Welland canal ports ..	572,393	2,208	574,601	166,298	2,452	168,750	738,691	4,660	743,351
Hamilton	6,718,577	56,734	6,775,311	293,767	33,500	327,267	7,012,344	90,234	7,102,578
Port Credit	307,146	1,668	308,814	99,422	39	99,461	406,568	1,707	408,275
Toronto	2,507,408	236,687	2,744,095	545,478	56,022	601,500	3,052,886	292,709	3,345,595
Pictou	1,169	—	1,169	346,812	—	346,812	347,981	—	347,981
Kingston	728,196	11,650	739,846	645,647	452	646,099	1,373,843	12,102	1,385,945
Prescott	849,079	324	849,403	580,584	130	580,714	1,429,663	454	1,430,117
Cornwall	210,045	210	210,255	100	6	106	210,145	216	210,361
Other Canadian Lake Ontario ports and St. Lawrence river to Iroquois	437,413	—	437,413	452,339	170	452,509	889,752	170	889,922
Canadian St. Lawrence canal ports	70,940	317	71,257	20,561	676	21,237	91,501	993	92,494
Lachine canal	1,268,717	26,667	1,295,384	120,344	63,388	183,732	1,389,061	90,055	1,479,116
Montreal	2,990,461	10,204	3,000,665	1,868,066	16,508	1,884,572	4,858,527	26,710	4,885,237
Contrecoeur	—	8	8	1,108,554	—	1,108,554	1,108,554	8	1,108,562
Sorel	650,575	132	650,707	197,843	59	197,902	848,418	191	848,609
Three Rivers	521,973	210	522,183	69,028	75,535	144,563	591,001	75,745	666,746
Sept Iles	12,164	11,944	24,108	4,973,471	490	4,973,961	4,985,635	12,434	4,998,069
Other Canadian St. Lawrence river ports East of Montreal	557,237	78,906	636,143	337,758	191,321	529,079	894,995	270,227	1,165,222
Hallifax	52,723	5,553	58,276	2,231	2,684	4,915	54,954	8,237	63,191
Saint John	890	—	890	—	—	—	890	—	890
Other Canadian Atlantic Coast and Gulf of St. Lawrence ports	42,617	12,629	55,246	64,748	60,990	125,738	107,365	73,619	180,984
Canadian Richelieu river ports	—	—	—	315	—	315	315	—	315
Canadian Pacific Coast ports	—	653	653	3,503	—	3,503	3,503	653	4,156
Ottawa river ports	—	—	—	326,700	57	326,757	326,700	57	326,757
Totals	20,422,227	474,314	20,896,541	18,340,142	715,989	19,056,131	38,762,369	1,190,303	39,952,672

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

Port	Unloaded			Loaded			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
Duluth	—	10,346	10,346	1,670,391	69	1,670,460	1,670,391	10,415	1,680,806
Superior	—	393	393	894,389	—	894,389	894,389	393	894,782
Other United States Lake Superior ports	923	2,094	3,017	1,152,560	—	1,152,560	1,153,483	2,094	1,155,577
Chicago	84,385	651,874	736,259	1,258,096	206,450	1,464,546	1,342,481	858,324	2,200,805
Milwaukee	21,983	69,701	91,684	115,343	53,146	168,489	137,326	122,847	260,173
Other United States Lake Michigan ports ..	104,227	14,648	118,875	241,747	49,895	291,642	345,974	64,543	410,517
United States Lake Huron ports	30,549	343	30,892	306,314	12,956	319,270	336,863	13,299	350,162
Detroit	702,132	220,801	922,933	304,985	50,062	355,047	1,007,117	270,863	1,277,980
Other United States St. Clair Lake and river and Detroit river ports	74,524	239	74,763	81,146	61	81,207	155,670	300	155,970
Ashtabula	2,251,215	224	2,251,439	1,646,544	—	1,646,544	3,897,759	224	3,897,983
Buffalo	622,157	26,697	648,854	251,805	13,006	264,811	873,962	39,703	913,665
Cleveland	1,428,630	178,129	1,606,759	44,880	60,221	105,101	1,473,510	238,350	1,711,860
Conneaut	6,592	266	6,858	39,837	6,067	45,904	46,429	6,333	52,762
Erie	288,692	259	288,951	203,726	714	204,440	492,418	973	493,391
Lackawanna	47,796	—	47,796	—	—	—	47,796	—	47,796
Loraln	146,054	—	146,054	429	—	429	146,483	—	146,483
Sandusky	4,993	—	4,993	1,578,418	—	1,578,418	1,583,411	—	1,583,411
Toledo	514,432	39,419	553,851	1,560,388	14,372	1,574,760	2,074,820	53,791	2,128,611
Other United States Lake Erie ports ..	620,458	23	620,481	140,160	982	141,142	760,618	1,005	761,623
Oswego	252,020	1,963	253,983	126,743	1,410	128,153	378,763	3,373	382,136
Rochester	2,586	12,775	15,361	27,189	2,127	29,316	29,775	14,902	44,677
Other United States Lake Ontario and St. Lawrence river to Ogdensburg	103,809	1,211	105,020	94,360	285	94,645	198,169	1,496	199,665
United States St. Lawrence canal ports	147,134	—	147,134	431	24	455	147,565	24	147,589
Totals	7,455,291	1,231,405	8,686,696	11,739,881	471,847	12,211,728	19,195,172	1,703,252	20,898,424
Grand totals	27,877,518	1,705,719	29,583,237	30,080,023	1,187,836	31,267,859	57,957,541	2,893,555	60,851,096

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1960

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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

1960

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, Canal Officers of 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 vessel passages as well as the cargo carried. The Declaration used for Seaway transits makes a division between "bulk" cargo as defined in the Seaway Tariff and "general" cargo. Domestic package freight is given the bulk rate on the seaway and is, therefore, classified as such in the list of commodities.

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" and is shown by country of loading and unloading, by 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, Table 11 A shows 1028 tons of in-transit freight. The bulk of this was loaded overseas, carried up and down the St. Lawrence canals, and unloaded at Montreal and Canadian Atlantic ports on return trip.

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 1960 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. Commencing with this report 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.

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 1953 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 1960 traffic. These tables compare with those of previous years.

Review of 1960 Traffic

The volume of freight shipped through all Canadian canals in 1960, the second year of the Seaway's operation, rose 3.7 per cent to 52,946,823 short tons from 51,076,132 in 1959. Freight traffic through the St. Lawrence canals declined to 20,752,161 from 21,221,230 but the Welland and Sault Ste. Marie canals recorded increases. Freight traffic through the Welland canal was up 6.5 per cent or almost 2 million tons to 29,280,737 tons from 27,506,024 while freight through the Canadian canal at Sault Ste. Marie increased 39.6 per cent to 1,720,622 tons from 1,232,694. The Canso canal also recorded increased traffic with cargoes up to 803,376 tons from 574,506. Among the secondary canals, decreased freight traffic was recorded by the St. Peter's, Richelieu River, Ottawa River and Trent.

Compared with 1959, wheat shipments were up by almost one million tons, rising to 3,555,782 tons from 7,938,030. Corn also increased to 2,429,451 tons from 2,154,181, while oats declined to 1,078,535 tons from 1,575,581. Other grains showed little change but the tonnage of soyabeans rose to 1,564,830 tons from 891,471 and the total for all agricultural products was up by 1.5 million tons to 18,086,130 tons from 16,580,215. Iron ore shipments dropped to 12,238,492 tons from 13,574,564, as the increase of 1.7 million tons in eastbound ore only partially offset the decline in westbound traffic. Bituminous coal also declined, to 5,431,375 tons from 5,943,605, and total mine

products decreased to 21,123,342 tons from 22,446,630. The manufactures and miscellaneous group, including domestic package freight increased 1.7 million tons to 12,569,415. The major factors in this increase were scrap iron and steel which rose to 1,143,578 tons from 281,958 and manufactured iron and steel up to 879,823 tons from 550,677. Gasoline, fuel oil and other petroleum products combined increased to 3,768,223 tons from 3,448,105. Decreases were reported for iron and steel, n.o.s., which was down to 191,095 tons from 641,039, and cement, down to 212,747 tons from 314,026.

Total vessel passages declined 3.0 per cent to 29,629 from 30,559 in the previous year. This decline was confined to vessels of Canadian registry which dropped to 19,816 from 21,363 although the registered net tonnage increased to 28,963,294 tons from 28,706,452. Vessels of United States registry increased to 5,046 from 4,819 but the registered net tonnage declined to 3,660,931 tons from 4,233,936. The number of United Kingdom vessels increased to 1,303 from 1,125 with net tonnage up to 3,971,587 tons from 3,130,140 while vessels of other foreign registry rose to 3,464 from 3,252 with net tonnage up 2.1 million to 9,455,739 tons.

During 1960 Canadian vessels carried 34,072,117 tons or 64.3 per cent of all cargo through Canadian canals. United States vessels carried 2,870,547 tons or 5.4 per cent, United Kingdom

vessels carried 5,139,179 tons or 9.7 per cent while other foreign vessels carried 10,365,040 tons or 20.5 per cent. The proportion of cargo carried by Canadian vessels was 5 per cent below the previous year while that of United States vessels was 1.4 per cent below. On the other hand, vessels of United Kingdom and other foreign registry have increased their proportion to 30.2 per cent from 24 per cent in 1959 and only 6 per cent in 1958.

Although the number of vessel transits to and from outside points showed a decline from the previous year, freight transported through the Seaway to and from points outside the St. Lawrence—Great Lakes system rose 29 per cent to 7.3 million tons from 6 million in 1959. Upbound vessels from outside points totalled 1,109 as against 1,250 in 1959 while downbound vessels dropped to 1,195 from 1,332. These figures exclude traffic using the Lachine Canal only. Vessels of United Kingdom, German and Norwegian registries made up the largest single groups. Cargo carried up the Seaway from outside points rose 4.5 per cent to 2,230,987 tons from 2,181,714 in 1959. Downbound traffic to outside points increased 43 per cent to 5,531,653 tons from 3,857,461. Of the total of 7,811,742 tons, up and down, vessels of the United Kingdom or other Commonwealth countries carried 1,577,444 tons or 21.5 per cent. Vessels of Norwegian registry carried 1,437,394 tons or 18.4 per cent, followed by vessels of German registry carrying 1,107,175 tons or 14.2 per cent. Details of this traffic between the St. Lawrence—Great Lakes system and outside points are shown 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. Freight transported through the combined system increased 29.4 per cent to 91,774,524 tons from 70,906,331 in 1959. Iron ore shipments accounted for 99 per cent of this increase, rising to 87,933,901 tons from 47,214,492. Minor decreases in bituminous coal and cement were offset by increases in wheat, corn, mill products and manufactured iron and steel. Vessel passages were up 12.6 per cent to 21,461 from 19,052 but the number of passengers using the combined system declined to 323,783 from 369,386.

Passenger traffic through all Canadian canals was down 11.6 per cent, totalling 183,362 passengers in 1960 as against 207,963 in the previous year. Pleasure craft lockages increased to 128,591 from 110,143.

For the three major canals the 1960 season of navigation was approximately one week longer than in 1959. The Sault Ste. Marie canal opened 9 days earlier operating 253 days as compared with 244 in the previous year. The Welland canal, opening 5 days earlier, was in use 259 days as against 254, and the St. Lawrence canals, opening 7 days earlier, were in operation 230 days as compared with 223. Closing dates were the same in both years. The Canso canal was in operation from April 17 until January 13, 1961, sixteen days longer than in 1959. Of the smaller canals, the Richelieu, Murray, Trent and St. Peter's remained in operation for a longer period than in 1959.

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 1960. 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, and to 53 million in 1960.

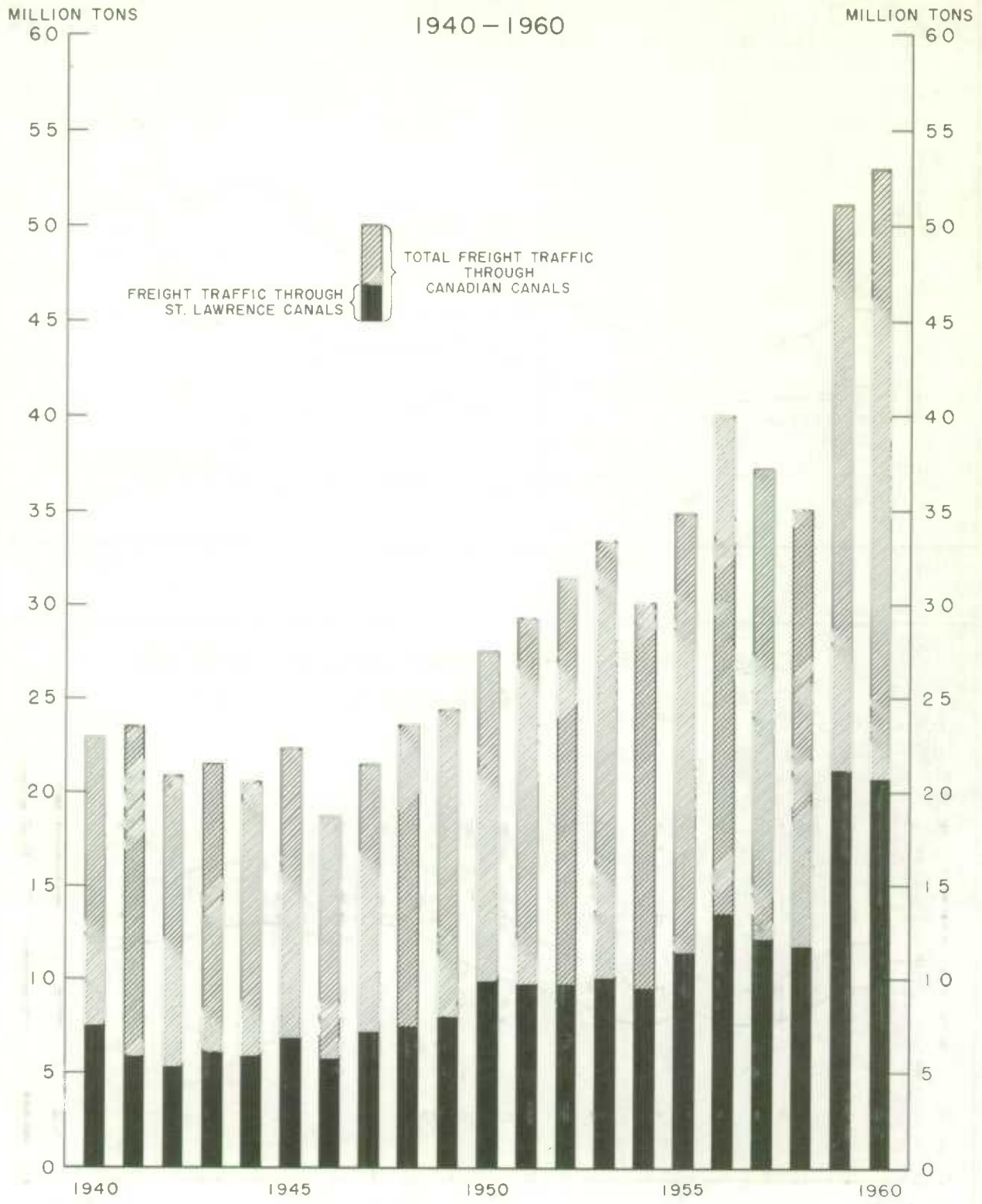
The quantity of shipments through the St. Lawrence Canals tends to follow the pattern of traffic for all canals.

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 1960.

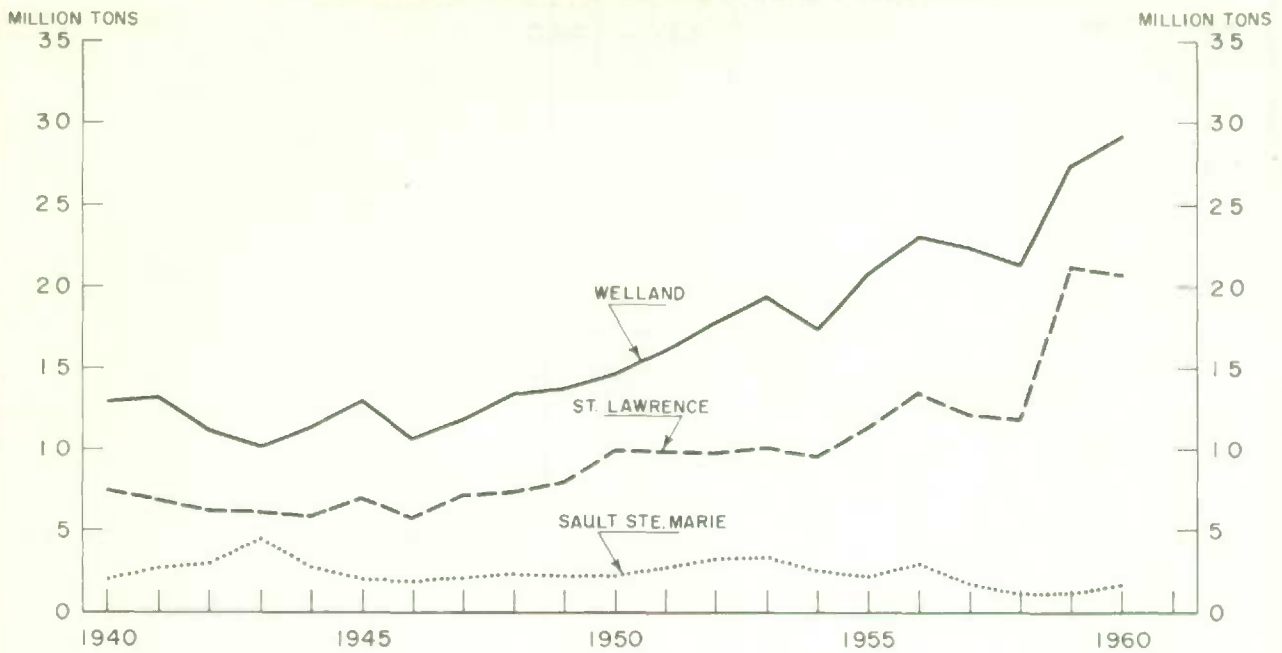
August 11, 1961.

TOTAL FREIGHT TRAFFIC THROUGH CANADIAN CANALS

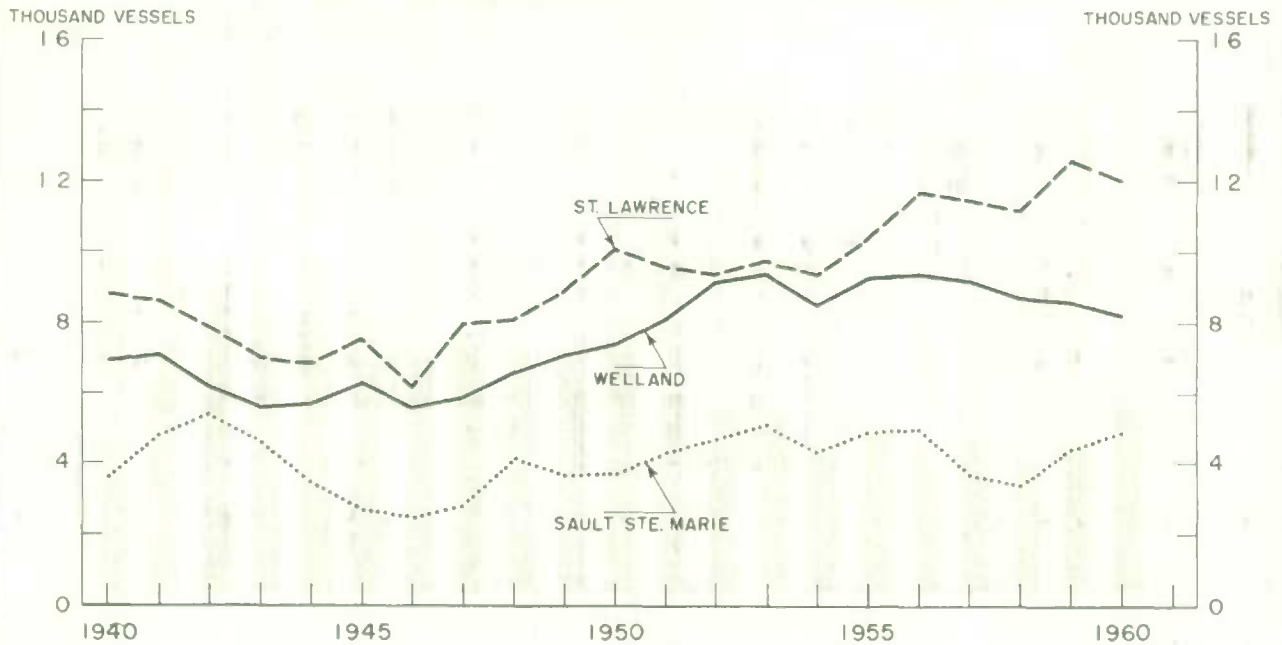
1940 - 1960



FREIGHT TRAFFIC THROUGH WELLAND, ST. LAWRENCE
AND SAULT STE. MARIE CANALS, 1940-1960



VESSEL TRAFFIC THROUGH WELLAND, ST. LAWRENCE
AND SAULT STE. MARIE CANALS, 1940-1960



SECTION I

SUMMARY FOR ALL CANALS

TABLE 1. Total Traffic through Canadian Canals, 1959 and 1960

No.	Registry	St. Lawrence	Welland	Sault Ste. Marie	St. Peter's	Canso
Number of vessels, passengers and pleasure craft lockages						
1	Canadian vessels	8,336	4,808	2,386	541	1,094
2	United States vessels	1,260	1,295	2,345	12	25
3	United Kingdom vessels ¹	665	530	61	—	30
4	Other foreign vessels	1,779	1,536	63	2	79
5	Total vessels	12,040	8,169	4,855	555	1,228
6	Passengers	8,620	2,265	171,932	53	9
7	Pleasure craft lockages	3,390	1,440	..	123	676
Registered net tonnage of vessels						
8	Canadian vessels	9,146,632	15,838,150	2,850,704	14,915	613,279
9	United States vessels	1,048,368	2,160,341	430,701	208	18,970
10	United Kingdom vessels ¹	1,958,919	1,843,270	111,941	—	54,641
11	Other foreign vessels	5,179,686	4,065,728	131,905	708	77,556
12	Total vessels	17,333,605	23,907,489	3,525,251	15,831	764,446
Cargo tons						
Agricultural products:						
13	Wheat	3,879,829	4,523,789	152,164	—	—
14	Corn	1,098,984	1,327,667	2,800	—	—
15	Oats	486,543	551,962	40,030	—	—
16	Barley	983,559	1,212,332	90,448	—	—
17	Rye	90,751	91,734	6,319	—	—
18	Flaxseed	302,564	322,658	7,457	—	—
19	Soya beans	565,403	990,303	9,124	—	—
20	Grain, n.o.s.	23,442	28,332	12,949	—	—
21	Flour	192,324	232,875	8,782	—	5,686
22	Other mill products	136,600	67,716	111,437	—	—
23	Other agricultural products	284,556	191,165	42,262	32	11,336
24	Totals	8,044,555	9,540,533	483,772	32	17,022
Animals and products:						
25	Fish	—	—	—	—	6,299
26	Other packing house products	68,531	68,461	—	—	—
27	Other animal products	188,100	165,603	27	509	7,004
28	Totals	256,631	234,064	27	509	13,303
Mine products:						
29	Coal, Bituminous	1,021,291	4,361,749	23,953	—	13,149
30	Coke	68,338	71,778	—	—	—
31	Iron ore and concentrates	4,312,626	7,925,776	—	—	—
32	Other ores and concentrates	125,892	125,392	—	—	6,261
33	Petroleum, crude	342,587	—	—	—	—
34	Sand, gravel and stone	292,756	1,095,034	114,548	—	—
35	Salt	119,411	158,201	6,563	—	—
36	Sulphur	72,744	62,517	6,312	—	—
37	Other mine products	274,312	176,390	3,169	—	49,250
38	Totals	6,629,957	13,976,837	154,545	—	68,660
Forest products:						
39	Pulpwood	277,723	298,192	4,800	—	14,753
40	Lumber	24,283	—	—	—	—
41	Other forest products	24,810	16,758	397	—	353
42	Totals	326,816	314,950	5,197	—	15,106
Manufactures and miscellaneous:						
43	Gasoline	37,138	309,942	153,655	—	276,094
44	Fuel, road and petroleum residual oils	1,227,794	761,862	227,834	—	278,214
45	Petroleum oils and other petroleum products	204,817	275,086	12,294	—	2,495
46	Iron, pig and bloom	123,818	112,783	15,285	—	—
47	Iron and steel, bar, rod and slab	110,193	106,891	4,862	—	—
48	Manufactured, iron and steel	504,970	358,744	16,079	—	—
49	Iron and steel, n.o.s.	100,622	68,502	21,871	—	—
50	Scrap iron and steel	569,189	569,895	4,494	—	—
51	Metals and alloys	103,240	32,708	—	—	—
52	Autos, trucks and parts	83,349	50,260	—	—	—
53	Machines, machinery and parts	39,262	28,394	—	—	—
54	Fertilizers	40,279	10,093	—	—	11,827
55	Chemicals and chemical products	152,641	222,075	6,981	—	2,435
56	Cement	22,985	124,743	10,741	—	53,938
57	Woodpulp	56,747	71,468	105,028	—	13,550
58	Newsprint paper	266,909	445,478	73,719	—	—
59	Sugar	55,151	49,920	—	—	9,780
60	Other manufactured products	1,223,388	1,209,370	136,434	182	40,952
61	Totals	4,922,492	4,808,214	789,277	182	689,285
62	Domestic package freight	571,710	406,139	287,804	—	—
63	Grand totals	20,752,161	29,280,737	1,720,622	723	803,376
Cargo carried, by registry of vessel						
64	Canadian vessels	11,465,355	19,967,667	1,564,375	723	685,733
65	United States vessels	553,121	2,194,140	123,286	—	—
66	United Kingdom vessels ¹	2,688,938	2,402,480	21,183	—	25,578
67	Other foreign vessels	6,044,747	4,716,450	11,778	—	92,065

¹ Includes other British Commonwealth.

TABLE 1. Total Traffic through Canadian Canals, 1959 and 1960

Richelieu river	Ottawa river	Rideau	Murray	Trent	St. Andrew's	Total		No.
						1960	1959	
Number of vessels, passengers and pleasure craft lockages								
738	1,350	75	141	46	301	19,616	21,363	1
42	—	19	47	1	—	5,046	4,819	2
16	—	—	1	—	—	1,303	1,125	3
—	—	—	5	—	—	3,464	3,252	4
796	1,350	94	194	47	301	29,629	30,559	5
5	21	282	4	159	512	183,862	207,968	6
99	5,922	38,821	3,674	72,874	1,572	128,591	110,143	7
Registered net tonnage of vessels								
120,389	341,475	2,850	17,792	641	16,467	28,963,294	28,706,462	8
850	—	276	1,207	10	—	3,660,931	4,233,936	9
2,788	—	—	28	—	—	3,971,587	3,130,140	10
—	—	—	156	—	—	9,455,739	7,321,449	11
124,027	341,475	3,126	19,183	651	16,467	46,051,551	43,391,987	12
Cargo tons								
—	—	—	—	—	—	8,555,782	7,638,030	13
—	—	—	—	—	—	2,429,451	2,154,181	14
—	—	—	—	—	—	1,078,535	1,575,581	15
—	—	—	—	—	—	2,286,339	2,249,970	16
—	—	—	—	—	—	188,804	61,199	17
—	—	—	—	—	—	632,679	702,795	18
—	—	—	—	—	—	1,564,830	891,471	19
—	—	—	—	—	—	64,723	41,618	20
—	—	—	—	—	143	439,810	399,064	21
—	—	—	—	—	—	315,753	190,171	22
—	—	—	—	—	73	529,424	676,135	23
—	—	—	—	—	218	18,086,130	16,580,215	24
—	—	—	—	—	1,248	7,547	29,951	25
—	—	—	—	—	—	136,992	109,559	26
—	—	—	—	—	5	361,248	340,170	27
—	—	—	—	—	1,253	505,787	479,680	28
11,232	—	—	—	—	—	5,431,375	5,948,606	29
—	—	—	—	—	—	140,116	87,463	30
—	—	—	—	—	—	12,238,402	13,574,564	31
—	—	—	—	—	—	257,545	81,658	32
—	—	—	—	—	—	342,587	323,064	33
—	278,100	—	—	—	—	1,780,438	1,602,914	34
—	—	—	—	—	—	284,175	268,012	35
2,400	—	—	—	—	—	143,973	199,509	36
1,610	—	—	—	—	—	504,731	360,840	37
15,243	278,100	—	—	—	—	21,123,342	22,446,630	38
—	—	—	—	—	—	595,468	681,688	39
—	—	—	—	—	88	24,371	34,076	40
—	—	49	—	—	3	42,370	33,921	41
—	—	49	—	—	91	662,209	749,685	42
—	—	—	—	—	939	777,795	660,304	43
—	—	—	—	27	—	2,495,723	2,464,311	44
—	—	—	—	19	—	494,710	323,491	45
—	—	—	—	18	—	251,886	245,523	46
—	—	—	—	—	—	221,946	193,253	47
—	—	—	30	—	—	879,823	550,677	48
—	—	—	100	—	—	191,095	641,038	49
—	—	—	—	—	—	1,143,578	281,958	50
—	—	—	—	—	—	135,948	119,838	51
—	—	—	—	—	—	133,609	90,074	52
—	—	—	—	—	—	67,656	19,054	53
46,690	—	—	—	—	—	108,889	81,793	54
—	—	—	—	—	—	384,132	337,109	55
—	—	—	—	—	340	212,747	314,026	56
—	—	—	—	—	—	246,793	264,857	57
27,814	—	—	—	—	—	813,920	824,953	58
—	—	—	—	—	—	114,851	134,265	59
16,952	100	23	—	—	1,260	2,628,681	2,236,658	60
91,456	100	23	130	64	2,539	11,303,762	9,783,182	61
—	—	—	—	—	—	1,265,653	1,036,740	62
106,699	278,200	72	130	64	4,099	52,946,683	51,076,132	63
Cargo carried, by registry of vessel								
106,699	278,200	72	130	64	4,099	34,072,117	35,369,216	64
—	—	—	—	—	—	2,870,547	3,472,522	65
1,000	—	—	—	—	—	5,139,179	3,675,814	66
—	—	—	—	—	—	10,865,040	8,558,580	67

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	Closuredyke	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, 1951 - 60

Registry of Vessel	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Vessel transits										
Upbound:										
Canada	4,686	4,496	4,584	4,372	4,640	5,227	5,082	4,851	4,736	4,158
United States	45	36	30	70	77	92	161	193	340	631
United Kingdom	—	—	—	—	58	78	104	87	298	333
Other foreign	101	160	291	270	315	338	382	516	851	891
Totals	4,832	4,692	4,905	4,712	5,090	5,735	5,729	5,647	6,225	6,013
Downbound:										
Canada	4,643	4,497	4,603	4,387	4,845	5,374	5,133	4,835	4,853	4,178
United States	52	46	34	82	74	111	189	176	350	629
United Kingdom .....	..	..	..	..	64	93	117	81	308	333
Other foreign	103	159	287	268	315	337	378	506	840	888
Totals	4,798	4,702	4,924	4,737	5,298	5,915	5,817	5,598	6,351	6,027
Grand totals	9,630	9,394	9,829	9,449	10,388	11,650	11,546	11,245	12,576	12,040
Registered net tons										
Upbound:										
Canada	3,992,923	4,042,462	3,929,199	3,833,797	4,071,714	4,519,684	3,987,352	4,030,044	5,322,137	4,614,030
United States	34,798	16,119	13,318	28,882	34,157	39,562	40,187	57,941	507,176	520,540
United Kingdom .....	..	..	..	..	39,611	56,528	65,724	55,508	803,757	987,579
Other foreign	74,051	119,532	219,329	223,348	262,325	286,072	321,122	427,427	2,038,223	2,583,006
Totals	4,101,772	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
Downbound:										
Canada	3,929,654	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
United States	36,455	17,574	13,321	31,288	34,925	43,621	49,339	53,554	468,942	527,828
United Kingdom .....	..	..	..	..	47,743	68,883	80,647	51,139	812,951	971,340
Other foreign	77,407	122,176	215,479	221,740	258,691	286,035	316,716	416,682	2,017,016	2,596,680
Totals	4,043,516	4,153,869	4,190,231	4,087,881	4,638,680	5,082,805	4,476,564	4,546,990	8,681,105	8,628,450
Grand totals	8,145,288	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
Cargo tons										
Upbound:										
Canada .....	..	..	..	..	4,391,872	5,323,540	4,686,603	4,099,722	8,085,427	5,610,185
United States .....	..	..	..	..	11,782	2,200	235	925	510,245	308,849
United Kingdom .....	..	..	..	..	44,846	71,453	60,226	78,254	708,082	1,034,710
Other foreign .....	..	..	..	..	333,303	381,103	341,733	491,346	1,851,215	1,910,581
Totals	4,046,551	3,237,780	2,997,097	2,973,706	4,781,803	5,778,296	5,088,797	4,670,247	11,154,969	8,864,325
Downbound:										
Canada .....	..	..	..	..	6,219,723	7,243,194	6,569,682	6,495,606	5,747,249	5,855,170
United States .....	..	..	..	..	38,854	52,114	45,173	29,181	169,684	244,272
United Kingdom .....	..	..	..	..	55,824	72,735	83,734	63,809	1,266,991	1,654,228
Other foreign .....	..	..	..	..	352,416	353,359	404,106	503,257	2,882,387	4,134,166
Totals	5,870,306	6,598,615	7,084,895	6,663,328	6,664,817	7,721,402	7,102,695	7,091,853	10,066,311	11,887,836
Grand totals	9,916,857	9,836,395	10,081,992	9,637,034	11,446,620	13,499,698	12,191,492	11,762,100	21,221,280	20,752,161
Season of navigation										
First vessel passage	April 8	April 2	March 31	April 13	April 10	April 12	April 10	April 14	April 25	April 18
Last vessel passage	Dec. 9	Dec. 15	Dec. 14	Dec. 11	Dec. 12	Dec. 13	Dec. 13	Dec. 19	Dec. 3	Dec. 3

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	793	1,388	2,181	6,115,799	9,285,083	6,473,644	138
Passenger-cargo	128	42	170	140,127	251,675	52,190	3,692
Cargo-passenger	11	246	257	457,947	813,280	402,075	242
Scow, barge, etc.	249	—	249	176,452	181,724	—	—
Tug and scow ²	306	8	316	76,495	91,956	416	—
Tanker	77	427	504	1,260,442	2,081,260	1,879,248	—
Tug or dredge	625	—	625	94,173	155,191	—	—
Pleasure craft over 40 ft.	5	—	5	311	554	—	—
Naval or government	74	2	76	29,574	43,127	2,906	—
All other types	112	—	112	1,180	1,501	—	116
Totals	2,382	2,113	4,495	8,352,500	12,905,351	8,810,479	4,188
Downbound:							
Cargo	218	1,970	2,188	6,186,964	9,435,645	9,862,151	117
Passenger-cargo	122	32	154	128,217	224,210	133,478	4,044
Cargo-passenger	—	231	231	410,579	727,438	729,648	168
Scow, barge, etc.	260	—	260	185,361	192,800	—	—
Tug and scow ²	228	116	344	90,555	107,209	63,868	—
Tanker	371	115	486	1,176,291	1,935,073	745,123	5
Tug or dredge	611	—	611	75,740	136,929	—	—
Pleasure craft over 40 ft.	6	—	6	3,111	3,138	—	—
Naval or government	68	1	69	29,705	42,676	3,457	—
All other types	115	—	115	1,951	2,742	—	98
Totals	1,999	2,465	4,464	8,288,474	12,807,860	11,537,725	4,432
Grand totals	4,381	4,578	8,959	16,640,974	25,713,211	20,348,204	8,620

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	1,499	1,167	2,666	4,275,429	6,116,389	5,565,539	1,171
United States	598	32	630	520,426	685,641	308,849	2,398
United Kingdom	64	220	284	881,568	1,537,265	866,788	122
Other British Commonwealth	9	26	35	100,915	154,647	166,780	—
Denmark	3	12	15	9,632	18,095	16,872	—
Finland	2	12	14	14,920	31,021	18,800	—
France	3	19	22	64,649	116,449	18,394	3
Germany	9	213	222	348,503	600,826	409,478	68
Greece	36	15	51	250,684	412,818	124,179	—
Italy	9	17	26	77,549	134,166	41,694	8
Netherlands	5	53	58	146,741	250,692	135,112	263
Norway	50	154	204	643,296	1,130,864	519,810	70
Sweden	8	85	93	189,476	347,961	101,110	46
Other Europe	13	9	22	82,258	113,120	8,524	16
Panama	6	20	26	132,239	211,273	169,652	—
Other Central America and Caribbean	1	3	4	8,384	13,352	12,782	—
South America	2	—	2	8,978	14,522	—	—
Middle East	—	13	13	36,161	64,762	14,401	21
Other Asia	3	11	14	69,861	119,533	21,205	—
Liberia	59	28	87	481,662	783,182	262,798	2
Other Africa	3	4	7	29,167	48,773	27,712	—
Totals	2,382	2,113	4,495	8,352,500	12,905,351	8,810,479	4,188
Downbound:							
Canada	1,338	1,303	2,641	4,205,559	6,018,991	5,511,040	1,498
United States	546	81	627	527,710	696,084	244,272	2,353
United Kingdom	29	257	286	670,456	1,511,227	1,520,316	103
Other British Commonwealth	19	14	33	96,911	147,845	129,335	—
Denmark	—	18	16	28,947	49,284	65,150	—
Finland	—	14	14	14,900	31,021	39,448	—
France	3	19	22	64,649	116,449	109,423	—
Germany	2	212	214	338,204	583,455	701,986	75
Greece	—	51	51	256,909	423,660	514,622	—
Italy	—	24	24	64,829	112,705	115,799	9
Netherlands	—	59	59	151,166	260,436	235,902	291
Norway	26	182	208	649,718	1,142,042	956,979	45
Sweden	1	91	92	189,694	346,191	334,020	25
Other Europe	—	23	23	63,877	117,333	136,193	2
Panama	14	12	26	129,909	207,268	72,277	—
Other Central America and Caribbean	3	2	5	12,631	18,853	7,662	—
South America	—	1	1	4,489	7,261	9,229	—
Middle East	—	13	13	36,161	64,762	56,977	26
Other Asia	—	13	13	64,597	110,176	39,783	—
Liberia	16	75	91	497,028	809,488	726,391	5
Other Africa	2	1	3	20,128	33,329	8,921	—
Totals	1,999	2,465	4,464	8,288,474	12,807,860	11,537,725	4,432
Grand totals	4,381	4,578	8,959	16,640,974	25,713,211	20,348,204	8,620

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	509	—	509	14,893	23,165	—	1,951
80 to 119 feet	586	36	622	83,050	117,168	5,683	—
120 " 159 "	190	22	212	92,596	108,073	13,720	—
160 " 199 "	131	15	146	137,123	152,792	41,763	—
200 " 239 "	91	59	150	96,308	167,967	51,914	515
240 " 279 "	438	932	1,370	1,753,576	2,697,208	2,130,990	31
280 " 319 "	13	127	140	169,566	301,315	201,447	136
320 " 359 "	55	202	257	531,833	831,614	719,100	1,001
360 " 399 "	23	161	184	403,749	675,053	416,062	123
400 " 439 "	58	126	184	587,327	934,233	374,977	85
440 " 479 "	121	121	242	957,864	1,597,663	494,796	305
480 " 519 "	81	75	156	838,466	1,337,237	410,270	33
520 " 559 "	45	46	91	591,377	927,488	519,568	2
560 " 599 "	14	65	79	578,054	957,221	601,244	—
600 " 639 "	8	41	49	354,033	506,024	680,721	—
640 " 679 "	9	24	33	303,649	424,769	478,304	—
680 " 719 "	10	61	71	859,036	1,146,361	1,469,900	6
Totals	2,382	2,113	4,495	8,352,500	12,905,351	8,810,479	4,188
Downbound:							
Under 80 feet	492	2	494	14,105	21,068	450	1,880
80 to 119 feet	583	69	652	85,203	121,760	4,816	—
120 " 159 "	181	21	202	84,078	99,957	15,263	—
160 " 199 "	137	11	148	149,155	165,583	8,528	310
200 " 239 "	47	111	158	97,069	164,508	141,822	515
240 " 279 "	320	1,013	1,333	1,702,316	2,627,383	2,635,390	20
280 " 319 "	6	124	130	158,422	282,443	321,386	152
320 " 359 "	51	198	249	510,257	803,569	848,594	1,016
360 " 399 "	22	163	185	406,251	680,332	663,879	149
400 " 439 "	3	189	192	610,482	964,186	1,102,750	62
440 " 479 "	11	236	247	978,951	1,631,652	1,758,344	308
480 " 519 "	9	141	150	810,470	1,292,652	1,311,000	20
520 " 559 "	9	83	92	589,553	919,745	973,379	—
560 " 599 "	45	35	80	584,152	966,363	466,941	—
600 " 639 "	24	24	48	348,437	497,583	358,438	—
640 " 679 "	14	19	33	303,649	424,766	356,167	—
680 " 719 "	45	26	71	855,924	1,144,310	570,576	—
Totals	1,999	2,465	4,464	8,288,474	12,807,860	11,537,725	4,432
Grand totals	4,381	4,578	8,959	16,640,974	25,713,211	20,348,204	8,620

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:									
Canada	1,971	2,096,965	3,051,658	667	2,132,634	2,990,225	2,636	4,229,599	6,041,883
United States	12	12,592	12,862	586	394,904	491,317	598	407,496	504,179
United Kingdom	29	86,290	143,143	46	263,898	418,933	75	350,188	567,076
Other British Commonwealth	18	36,036	61,218	12	49,588	67,074	30	85,624	128,292
Denmark	1	1,367	2,675	1	823	1,000	2	1,990	3,675
Finland	1	2,286	4,686	1	2,286	4,688	2	4,572	9,376
France	—	—	—	1	4,380	7,303	1	4,380	7,303
Germany	—	—	—	2	3,282	5,497	2	3,282	5,497
Greece	—	—	—	4	28,164	51,936	4	28,164	51,936
Italy	—	—	—	5	9,543	16,774	5	9,543	16,774
Netherlands	—	—	—	4	35,772	55,696	4	35,772	55,696
Norway	1	1,900	2,800	15	37,017	63,505	16	38,917	66,305
Sweden	—	—	—	1	1,012	2,030	1	1,012	2,030
Other Europe	2	5,076	10,098	—	—	—	2	5,076	10,098
Other Central America and Caribbean	1	3,587	4,614	1	1,649	3,041	2	5,236	7,655
Liberia	1	5,931	9,166	3	14,178	23,853	4	20,109	32,821
Totals	2,037	2,252,030	3,307,924	1,340	2,978,930	4,202,672	3,386	5,230,960	7,510,596

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

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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.....	16	29,224	46,528	12	16,606	27,978	28	45,830	74,506
United States.....	5	11,344	16,243	27	101,586	165,219	32	112,930	181,462
United Kingdom.....	89	202,167	366,440	120	329,213	603,749	209	531,380	970,189
Other British Commonwealth.....	2	4,004	6,802	3	11,287	19,553	5	15,291	26,355
Denmark.....	7	4,049	7,664	6	3,593	6,756	13	7,642	14,420
Finland.....	—	—	—	12	10,348	21,645	12	10,348	21,645
France.....	4	17,356	29,126	17	42,913	80,020	21	60,269	109,146
Germany.....	19	36,291	59,523	201	308,930	535,806	220	345,221	595,329
Greece.....	7	34,311	52,392	40	188,209	308,490	47	222,520	360,882
Italy.....	3	15,956	27,111	18	52,050	90,281	21	68,006	117,392
Netherlands.....	3	5,808	10,420	51	105,161	184,576	54	110,969	194,996
Norway.....	46	227,724	399,978	142	376,657	664,581	188	604,381	1,064,559
Sweden.....	14	36,139	65,208	78	152,325	280,723	92	188,464	345,931
Other Europe.....	5	17,977	31,874	15	39,205	71,148	20	57,182	103,022
Panama.....	16	108,550	171,262	10	23,689	40,011	28	132,239	211,273
Middle East.....	2	6,925	11,904	11	29,236	52,858	13	36,161	64,762
Other Asia.....	4	22,051	37,351	10	47,810	82,182	14	69,861	119,533
Liberia.....	31	187,802	302,666	52	273,751	447,695	83	461,553	750,361
Other Countries.....	6	24,450	40,783	5	16,843	28,209	11	41,293	68,992
Totals.....	279	992,128	1,683,275	830	2,129,412	3,711,480	1,109	3,121,540	5,394,755
Grand totals.....	2,316	3,244,158	4,991,199	2,179	5,108,342	7,914,152	4,495	8,352,500	12,905,351

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.....	2,121	3,199,823	4,562,016	482	951,087	1,372,983	2,603	4,150,910	5,934,999
United States.....	6	880	1,132	580	380,110	463,747	586	380,990	464,879
United Kingdom.....	31	130,941	216,596	9	34,355	50,481	40	165,296	267,077
Other British Commonwealth.....	19	42,614	69,286	9	39,006	52,204	28	81,820	121,490
Germany.....	—	—	—	1	1,142	1,653	1	1,142	1,653
Greece.....	—	—	—	1	7,724	14,430	1	7,724	14,430
Norway.....	3	6,417	11,037	1	1,004	2,047	4	7,421	13,084
Panama.....	1	1,374	1,968	—	—	—	1	1,374	1,968
Other Central America and Caribbean.....	4	10,508	15,048	—	—	—	4	10,508	15,048
Liberia.....	—	—	—	1	1,598	2,967	1	1,598	2,967
Totals.....	2,185	3,392,557	4,877,083	1,084	1,416,026	1,960,512	3,269	4,808,583	6,837,595
Destined to ports outside the Gulf of St. Lawrence:									
Registry:									
Canada.....	23	29,767	46,962	15	24,882	37,030	38	54,649	83,992
United States.....	1	6,323	10,551	40	140,397	220,654	41	146,720	231,205
United Kingdom.....	125	298,275	529,244	121	406,887	714,906	246	705,162	1,244,150
Other British Commonwealth.....	2	4,004	6,802	3	11,287	19,553	5	15,291	26,355
Denmark.....	8	7,915	14,544	10	21,032	34,740	18	28,947	49,284
Finland.....	3	3,632	7,506	11	11,268	23,515	14	14,900	31,021
France.....	4	17,356	29,126	18	47,293	87,323	22	64,649	116,449
Germany.....	21	34,965	60,052	192	302,097	521,750	213	337,062	581,802
Greece.....	8	38,933	60,341	42	210,252	348,889	50	249,185	409,230
Italy.....	2	8,280	14,128	22	56,549	98,577	24	64,829	112,705
Netherlands.....	6	12,205	21,041	53	138,961	239,395	59	151,166	260,436
Norway.....	42	213,704	375,010	162	428,593	753,948	204	642,297	1,128,958
Sweden.....	13	35,215	63,019	79	154,479	283,172	92	189,694	346,191
Other Europe.....	10	29,614	56,008	13	34,263	61,325	23	63,877	117,333
Panama.....	15	107,176	169,294	10	21,359	36,006	25	128,535	205,300
Middle East.....	2	6,925	11,904	11	29,236	52,858	13	36,161	64,762
Other Asia.....	4	21,938	35,260	9	42,659	74,916	13	64,597	110,176
Liberia.....	30	171,875	275,364	60	323,755	531,157	90	495,430	806,521
Other Countries.....	5	26,740	44,395	—	—	—	5	26,740	44,395
Totals.....	324	1,074,642	1,830,551	871	2,405,249	4,139,714	1,195	3,479,891	5,970,265
Grand totals.....	2,509	4,467,199	6,707,634	1,955	3,821,275	6,100,226	4,464	8,288,474	12,807,860

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	1,260	3,225,506	4,666,377	1,004	986,696	1,371,439	402	63,225	76,573	2,666	4,275,429	6,116,389
United States	50	246,739	363,889	358	79,896	120,435	222	193,791	201,317	630	520,426	685,641
United Kingdom	101	296,821	510,507	183	584,747	1,026,758	—	—	—	284	881,568	1,537,265
Other British Commonwealth	33	93,873	142,210	2	7,042	12,437	—	—	—	35	100,915	154,647
Denmark	—	—	—	15	9,632	18,095	—	—	—	15	9,632	18,095
Finland	14	14,920	31,021	—	—	—	—	—	—	14	14,920	31,021
France	6	26,086	43,702	16	38,563	72,747	—	—	—	22	64,649	116,449
Germany	11	16,935	27,618	211	331,568	573,208	—	—	—	222	348,503	600,826
Greece	33	159,106	254,089	18	91,578	158,729	—	—	—	51	250,684	412,818
Italy	5	21,015	35,621	21	56,534	98,545	—	—	—	26	77,549	134,186
Netherlands	1	3,175	5,884	57	143,566	244,808	—	—	—	58	146,741	250,692
Norway	12	39,031	66,476	192	604,267	1,064,388	—	—	—	204	643,298	1,130,864
Sweden	2	3,256	5,691	91	186,220	342,270	—	—	—	93	189,476	347,961
Other Europe	3	12,437	20,909	19	49,821	92,211	—	—	—	22	62,258	113,120
Panama	6	39,922	56,835	20	92,317	154,438	—	—	—	26	132,239	211,273
Other Central America ²	2	4,612	6,506	2	3,772	6,846	—	—	—	4	8,384	13,352
South America	2	8,978	14,522	—	—	—	—	—	—	2	8,978	14,522
Middle East	1	3,210	5,464	12	32,951	59,298	—	—	—	13	36,161	64,762
Other Asia	8	37,144	64,204	6	32,717	55,329	—	—	—	14	69,861	119,533
Liberia	52	287,964	465,468	35	193,698	317,714	—	—	—	87	481,662	763,182
Other Africa	5	16,700	28,124	2	12,467	20,649	—	—	—	7	29,167	48,773
Totals	1,607	4,557,432	6,817,117	2,264	3,538,052	5,810,344	624	257,016	277,890	4,495	8,352,500	12,905,351
Downbound:												
Canada	1,242	3,178,820	4,600,619	975	952,075	1,329,083	424	74,664	89,289	2,641	4,205,559	6,018,991
United States	47	238,632	352,517	351	81,445	126,541	229	207,633	217,026	627	527,710	696,084
United Kingdom	105	311,007	533,334	176	558,461	976,433	5	990	1,460	286	870,458	1,511,227
Other British Commonwealth	31	89,869	135,408	2	7,042	12,437	—	—	—	33	96,911	147,845
Denmark	3	16,816	26,984	15	12,131	22,300	—	—	—	18	28,947	49,284
Finland	13	13,776	28,669	1	1,124	2,352	—	—	—	14	14,900	31,021
France	6	26,086	43,702	18	38,563	72,747	—	—	—	22	64,649	116,449
Germany	8	13,937	23,962	206	324,267	559,493	—	—	—	214	338,204	583,455
Greece	30	141,001	223,948	21	115,908	199,712	—	—	—	51	256,909	423,660
Italy	6	25,127	42,777	18	39,702	69,928	—	—	—	24	64,829	112,705
Netherlands	2	7,979	14,230	57	143,187	246,206	—	—	—	59	151,166	260,436
Norway	11	43,763	75,217	197	605,955	1,066,825	—	—	—	208	649,718	1,142,042
Sweden	3	2,181	4,188	89	187,513	342,003	—	—	—	92	189,694	346,191
Other Europe	—	—	—	23	63,877	117,333	—	—	—	23	83,877	117,333
Panama	6	37,592	52,830	20	92,317	154,438	—	—	—	26	129,909	207,268
Other Central America ²	5	12,631	18,853	—	—	—	—	—	—	5	12,631	18,853
South America	1	4,489	7,261	—	—	—	—	—	—	1	4,489	7,261
Middle East	1	3,210	5,464	12	32,951	59,298	—	—	—	13	36,161	64,762
Other Asia	7	33,587	59,481	6	31,010	50,695	—	—	—	13	64,597	110,176
Liberia	52	285,512	461,508	39	211,516	347,980	—	—	—	91	497,028	809,488
Other Africa	—	—	—	3	20,128	33,329	—	—	—	3	20,128	33,329
Totals	1,579	4,486,015	6,710,952	2,227	3,518,172	5,789,133	658	283,287	307,775	4,464	8,288,474	12,807,860
Grand totals	3,186	9,043,447	13,528,069	4,491	7,057,224	11,599,477	1,282	540,303	585,665	8,959	16,640,974	25,713,211

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	1,302	1,476,913	2,272,907	1,260	1,417,775	2,191,753	2,562	2,894,688	4,464,660
280 to 319 feet	136	163,643	293,299	127	154,249	276,177	263	317,892	569,476
320 " 359 "	225	457,856	721,941	219	445,255	705,172	444	903,111	1,427,113
360 " 399 "	161	357,707	598,432	164	364,213	610,513	325	721,920	1,208,945
400 " 439 "	183	582,918	927,015	188	597,512	948,407	371	1,180,430	1,875,422
440 " 479 "	239	943,909	1,573,816	245	969,618	1,615,754	484	1,913,527	3,189,570
480 " 519 "	128	684,018	1,074,786	127	678,683	1,064,719	255	1,362,701	2,139,505
520 " 559 "	55	358,884	536,738	62	397,858	598,643	117	756,742	1,135,381
560 " 599 "	26	171,307	273,950	29	192,587	309,496	55	363,894	583,446
600 " 639 "	49	354,033	506,024	48	348,437	497,583	97	702,470	1,003,607
640 " 679 "	33	303,649	424,769	33	303,649	424,766	66	607,298	849,535
680 " 719 "	71	859,036	1,146,361	71	855,924	1,144,310	142	1,714,960	2,290,671
Totals	2,608	6,713,873	10,350,038	2,573	6,725,760	10,387,293	5,181	13,439,633	20,737,331
Barge or scow:									
Under 80 feet	57	5,927	7,660	62	5,844	7,990	119	11,771	15,650
80 to 119 feet	30	11,397	11,643	28	10,332	10,437	58	21,729	22,080
120 " 159 "	68	40,049	40,257	65	35,276	36,109	133	75,325	76,366
160 " 199 "	93	117,805	120,415	104	132,635	136,515	197	250,440	256,930
240 " 279 "	1	1,274	1,749	1	1,274	1,749	2	2,548	3,498
Totals	249	176,452	181,724	260	185,361	192,800	509	361,813	374,524
Tug and scow:²									
Under 80 feet	36	1,655	2,404	30	2,046	2,308	66	3,701	4,712
80 to 119 feet	130	18,002	23,429	162	24,384	31,399	292	42,386	54,828
120 " 159 "	88	20,079	24,290	82	19,465	23,438	170	39,544	47,778
160 " 199 "	22	7,753	9,967	12	4,863	5,569	34	12,616	15,436
200 " 239 "	38	24,006	26,643	54	33,700	37,569	92	57,706	64,212
240 " 279 "	—	—	—	2	1,036	1,915	2	1,036	1,915
300 " 439 "	—	—	—	2	5,061	5,061	2	5,061	5,061
480 " 519 "	2	5,000	5,223	—	—	—	2	5,000	5,223
Totals	316	76,495	91,956	344	90,555	107,209	660	167,030	199,165
Tanker:									
80 to 119 feet	33	3,977	4,937	32	3,808	4,768	65	7,785	9,705
160 " 199 "	7	2,671	5,659	7	2,359	5,569	14	5,030	11,228
200 " 239 "	13	9,611	18,812	11	7,951	15,533	24	17,562	34,345
240 " 279 "	280	336,347	526,373	280	336,955	526,474	560	673,302	1,052,847
280 " 319 "	1	1,033	1,546	1	1,033	1,546	2	2,066	3,092
320 " 359 "	31	65,353	101,049	30	65,002	98,397	61	130,355	199,446
360 " 399 "	21	42,042	71,421	19	38,038	64,619	40	80,080	136,040
400 " 439 "	1	4,409	7,218	1	4,409	7,218	2	8,818	14,436
440 " 479 "	3	13,955	23,847	2	9,333	15,898	5	23,288	39,745
480 " 519 "	26	149,448	257,228	23	131,787	227,933	49	281,235	485,161
520 " 559 "	35	224,649	379,899	29	184,051	310,251	64	408,900	690,150
560 " 599 "	53	406,747	683,271	51	391,565	656,867	104	798,312	1,340,138
Totals	504	1,260,442	2,081,260	486	1,176,291	1,935,073	990	2,436,733	4,016,333
Tug or dredge:									
Under 80 feet	157	4,574	9,661	144	3,508	7,357	301	8,082	17,018
80 to 119 feet	415	47,123	73,837	416	44,006	71,740	831	91,129	145,577
120 " 159 "	14	15,838	17,118	12	10,611	12,570	26	26,449	29,688
160 " 199 "	1	232	497	3	869	1,500	4	1,101	1,997
200 " 239 "	35	15,925	41,860	35	15,925	41,860	70	31,850	83,720
240 " 279 "	2	1,857	3,594	1	821	1,902	3	2,678	5,496
320 " 359 "	1	8,624	8,624	—	—	—	1	8,624	8,624
Totals	625	94,173	155,191	611	75,740	136,929	1,236	169,913	292,120
Other vessels:									
Under 80 feet	144	1,549	1,883	145	1,523	1,853	289	3,072	3,736
80 to 119 feet	7	601	899	3	264	381	10	865	1,279
120 " 159 "	21	6,830	9,973	23	10,547	13,647	44	17,377	23,620
160 " 199 "	14	4,862	8,805	13	4,149	8,404	27	9,011	17,209
200 " 239 "	1	689	1,102	—	—	—	1	689	1,102
280 " 319 "	3	4,890	6,470	2	3,140	4,720	5	8,030	11,190
360 " 399 "	2	4,000	5,200	2	4,000	5,200	4	8,000	10,400
400 " 439 "	—	—	—	1	3,500	3,500	1	3,500	3,500
520 " 559 "	1	7,644	10,851	1	7,644	10,851	2	15,288	21,702
Totals	193	31,065	45,182	190	34,767	48,556	383	65,832	93,738
Grand totals	4,495	8,352,500	12,905,351	4,464	8,288,474	12,807,860	8,959	18,640,974	25,713,211

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	115	1,188	1,557	112	1,173	1,546	227	2,361	3,103
6 to 7 feet	—	—	—	1	689	1,104	1	689	1,104
8 " 9 "	1	138	198	1	138	198	2	276	396
10 " 11 "	8	9,852	16,401	9	6,795	11,098	17	16,647	27,499
12 " 13 "	95	79,793	125,623	56	26,352	46,915	151	106,145	172,538
14 " 15 "	226	308,076	418,803	193	256,708	354,657	419	564,784	773,460
16 " 17 "	432	534,011	847,982	467	581,410	915,785	899	1,115,421	1,763,767
18 " 19 "	577	885,246	1,375,365	551	826,382	1,285,702	1,128	1,711,628	2,661,067
20 " 21 "	334	876,505	1,293,400	339	887,063	1,304,818	673	1,763,568	2,598,218
22 " 23 "	173	479,694	749,958	178	521,729	815,852	351	1,001,423	1,565,810
24 " 25 "	247	1,237,680	1,917,049	256	1,278,390	1,980,037	503	2,516,070	3,897,086
26 " 27 "	168	1,103,465	1,627,551	164	1,089,760	1,609,143	332	2,193,225	3,236,694
28 " 29 "	117	531,286	879,739	121	548,835	911,839	238	1,080,121	1,791,578
30 feet and over	115	666,939	1,096,412	125	700,336	1,148,599	240	1,367,275	2,245,011
Totals	2,608	6,713,873	10,350,038	2,573	6,725,760	10,387,293	5,181	13,439,633	20,737,331
Barge or scow:									
5 feet and under	214	156,319	159,044	227	167,961	169,501	441	324,280	328,545
6 to 7 feet	11	7,886	7,984	13	7,760	8,254	24	15,646	16,238
8 " 9 "	11	4,628	4,673	10	3,836	3,836	21	8,464	8,509
10 " 11 "	3	1,253	2,973	5	2,042	4,162	8	3,295	7,135
12 " 13 "	8	3,758	3,967	4	2,488	5,298	12	6,246	9,265
16 " 17 "	1	1,334	1,334	—	—	—	1	1,334	1,334
20 " 21 "	1	1,274	1,749	1	1,274	1,749	2	2,548	3,498
Totals	249	176,452	181,724	260	185,361	192,800	509	361,813	374,524
Tug and scow:²									
5 feet and under	168	27,021	33,701	166	24,866	30,868	334	51,887	64,569
6 to 7 feet	46	6,958	9,785	38	6,281	7,951	84	13,239	17,716
8 " 9 "	42	7,061	8,594	38	7,462	8,674	80	14,523	17,268
10 " 11 "	18	8,040	8,871	34	12,243	13,798	52	20,283	22,669
12 " 13 "	10	2,974	4,171	18	7,001	8,593	28	9,975	12,764
14 " 15 "	28	17,886	20,076	40	23,819	27,097	68	41,705	47,173
16 " 17 "	4	6,555	6,778	8	3,822	5,167	12	10,377	11,945
20 " 21 "	—	—	—	2	5,061	5,061	2	5,061	5,061
Totals	316	76,495	91,956	344	90,555	107,209	660	167,050	199,165
Tanker:									
6 to 7 feet	32	3,808	4,768	32	3,808	4,768	64	7,616	9,536
10 " 11 "	2	1,578	2,299	1	1,374	1,968	3	2,952	4,267
12 " 13 "	62	69,331	102,240	61	69,557	102,316	123	138,888	204,556
14 " 15 "	60	63,422	86,870	62	64,960	89,496	122	128,382	176,366
16 " 17 "	183	238,327	397,938	183	238,425	397,174	366	476,752	795,112
18 " 19 "	7	7,319	13,178	4	3,548	7,233	11	10,867	20,411
20 " 21 "	20	59,718	107,051	17	57,393	101,037	37	117,111	208,088
22 " 23 "	24	58,262	84,892	23	51,606	72,776	47	109,868	157,666
24 " 25 "	3	17,585	29,478	2	7,592	13,064	5	25,177	42,542
26 " 27 "	4	26,648	42,995	5	34,339	56,353	9	60,987	99,348
28 " 29 "	24	135,088	232,745	25	139,580	240,584	49	274,668	473,329
30 feet and over	83	579,356	976,806	71	504,109	848,304	154	1,083,465	1,825,110
Totals	504	1,260,442	2,081,260	486	1,176,291	1,935,073	990	2,436,733	4,016,333
Tug or dredge:									
5 feet and under	37	848	1,026	42	899	1,292	79	1,747	2,318
6 to 7 feet	96	8,983	10,547	93	9,593	10,981	189	18,576	21,528
8 " 9 "	178	6,843	19,527	166	5,678	17,707	344	12,521	37,234
10 " 11 "	129	16,562	25,374	132	13,377	22,942	261	29,939	48,316
12 " 13 "	163	40,979	74,329	164	40,859	74,607	327	81,838	148,936
14 " 15 "	16	6,207	7,917	8	3,565	4,817	24	9,772	12,734
16 " 17 "	5	5,127	7,847	6	1,769	4,583	11	6,896	12,430
18 " 19 "	1	8,624	8,624	—	—	—	1	8,624	8,624
Totals	625	94,173	155,191	611	75,740	136,929	1,236	169,913	292,120
Other vessels:									
5 feet and under	139	1,363	1,649	137	1,465	1,842	276	2,828	3,491
6 to 7 feet	12	1,496	3,108	14	705	1,675	26	2,201	4,783
8 " 9 "	15	5,509	6,989	13	5,644	7,204	28	11,353	14,193
10 " 11 "	6	3,060	3,977	6	2,210	3,032	12	5,270	7,009
12 " 13 "	17	8,661	12,709	14	9,815	14,183	31	18,476	26,892
14 " 15 "	—	—	—	2	3,752	3,870	2	3,752	3,870
16 " 17 "	3	3,332	5,899	3	3,332	5,899	6	6,664	11,798
30 feet and over	1	7,644	10,851	1	7,644	10,851	2	15,288	21,702
Totals	193	31,065	45,182	190	34,767	48,556	383	65,832	93,736
Grand totals	4,495	8,352,500	12,905,351	4,464	8,288,474	12,807,860	8,959	16,640,974	25,713,211

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	2,043,055	15,700	2,058,755	4,247,526	220,622	4,468,148	6,290,581	236,322	6,526,903
United States	3,487	—	3,487	—	—	—	3,487	—	3,487
Totals	2,046,542	15,700	2,062,242	4,247,526	220,622	4,468,148	6,294,068	236,322	6,530,390
Ports outside the Gulf of St. Lawrence:									
Canada — Atlantic ports	15,422	—	15,422	56,280	63,985	120,265	71,702	63,985	135,687
Canada — Pacific ports	4,045	—	4,045	—	2,151	2,151	4,045	2,151	6,196
United States — Atlantic and Gulf ports	43,216	—	43,216	37,371	—	37,371	80,587	—	80,587
United States — Pacific ports	—	2,313	2,313	—	—	—	—	2,313	2,313
United Kingdom	18,256	106,147	124,403	24,341	74,113	98,454	42,597	180,260	222,857
West Indies Federation	300,206	147	300,353	26,873	765	27,638	327,079	912	327,991
Other British Commonwealth	11,709	1,999	13,708	153	3,097	3,250	11,862	5,096	16,958
Belgium	5,664	38,341	44,005	3,195	176,292	179,487	8,859	214,633	223,492
Denmark	11,719	1,951	13,670	2	4,620	4,622	11,721	6,571	18,292
Finland	131	1,643	1,774	19,773	4,926	24,699	19,904	6,569	26,473
France	1,680	6,404	8,084	4,214	27,431	31,645	5,894	33,835	39,729
Germany	2,600	46,684	49,284	533	63,511	64,044	3,133	110,195	113,328
Greece	—	176	176	31,305	259	31,564	31,305	435	31,740
Italy	7,061	17,984	25,045	4,440	25,197	29,637	11,501	43,181	54,682
Netherlands	1,725	23,050	24,775	11,377	57,839	69,216	13,102	80,889	93,991
Norway	192	1,187	1,379	3,920	9,272	13,192	4,112	10,459	14,571
Portugal	2	2,928	2,930	165	2,597	2,762	167	5,525	5,692
Sweden	3,397	6,358	9,755	22,388	10,351	32,739	25,785	16,709	42,494
Other Europe	17,655	9,146	26,801	67,050	21,110	88,160	84,705	30,256	114,961
Central America and Caribbean	287,677	21	287,698	63,443	7,403	70,846	351,120	7,424	358,544
South America	224,833	—	224,833	74,812	3,661	78,473	299,645	3,661	303,306
Middle East	257	2,249	2,506	—	1,170	1,170	257	3,419	3,676
Other Asia	881	14,471	15,352	—	14,677	14,677	881	29,148	30,029
Other Africa	5,269	200	5,469	—	687	687	5,269	887	6,156
Australasian Countries	1,113	1,593	2,706	—	2,174	2,174	1,113	3,767	4,880
Pacific and Indian Ocean Islands	—	436	436	—	—	—	—	436	436
Totals	964,710	285,428	1,250,138	451,635	577,288	1,028,923	1,416,345	862,716	2,279,061
In transit	—	—	—	—	—	—	1,028	—	1,028
Grand totals	3,011,252	301,128	3,312,380	4,699,161	797,910	5,497,071	7,711,441	1,099,038	8,810,479

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

Country of unloading	Cargo loaded								
	In Canada			In United States			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
	tons								
Ports on St. Lawrence river:									
Canada	4,213,074	1,296	4,214,372	1,729,080	18,606	1,747,686	5,942,154	19,904	5,962,058
United States	—	—	—	44,014	—	44,014	44,014	—	44,014
Totals	4,213,074	1,296	4,214,372	1,773,094	18,606	1,791,700	5,986,168	19,904	6,006,072
Ports outside the Gulf of St. Lawrence:									
Canada — Atlantic ports	196,763	1,113	197,876	24,480	5	24,485	221,243	1,118	222,361
Canada — Pacific ports	471	—	471	—	—	—	471	—	471
United States — Atlantic and Gulf ports	—	5,646	5,646	4,646	—	4,646	4,646	5,646	10,292
United States — Pacific ports	—	59	59	—	—	—	—	59	59
United Kingdom	548,433	151,818	700,251	316,753	160,061	476,814	865,186	311,679	1,177,065
West Indies Federation	8,030	1,832	9,862	200	1,101	1,301	6,230	2,933	11,163
Other British Commonwealth	1,105	3,102	4,207	4,064	49,537	53,601	5,169	52,639	57,808
Belgium	62,652	50,903	113,555	242,965	37,400	280,365	305,617	88,303	393,920
Denmark	76	778	854	142,508	7,373	149,881	142,584	8,151	150,735
Finland	53	256	309	12,904	1,638	14,542	12,957	1,894	14,851
France	738	13,114	13,852	31,837	26,689	58,526	32,575	39,803	72,378
Germany	59,678	18,429	78,107	470,562	41,128	511,690	530,240	59,557	589,797
Greece	—	1,999	1,999	26,124	2,489	28,613	26,124	4,488	30,612
Italy	37,884	15,062	52,946	169,843	35,263	205,106	207,727	50,325	258,052
Netherlands	51,608	54,670	106,278	1,205,731	138,767	1,344,498	1,257,339	193,437	1,450,776
Norway	2,902	10,121	13,023	78,142	3,742	81,884	81,044	13,863	94,907
Portugal	40	946	986	5	1,466	1,471	45	2,412	2,457
Sweden	179	3,836	4,015	61,959	26,608	88,567	62,138	30,444	92,582
Other Europe	58,396	19,212	77,608	111,641	28,150	139,791	170,037	47,362	217,399
Panama	—	—	—	6,460	—	6,460	6,460	—	6,460
Other Central America and Caribbean	3,726	709	4,437	34,910	1,743	36,653	38,638	2,452	41,090
South America	26,871	70,302	97,173	139,008	40,754	179,762	165,879	111,056	276,935
Middle East	1,956	11,235	13,191	104,121	49,912	154,033	106,077	61,147	167,224
Other Asia	59,299	11,380	70,679	73,956	31,077	105,033	133,255	42,457	175,712
Other Africa	—	88	88	11,662	3,769	15,431	11,662	3,857	15,519
Totals	1,120,862	446,610	1,567,472	3,274,481	688,672	3,963,153	4,395,343	1,135,282	5,530,625
In transit	—	—	—	—	—	—	1,028	—	1,028
Grand totals	5,333,936	447,908	5,781,844	5,047,575	707,278	5,754,853	10,382,539	1,155,186	11,537,725

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

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

Loaded at	Registry of vessel	Cargo tons			
		Bulk	General	Total	
Ports on the St. Lawrence river	Canada	5,274,770	227,718	5,502,488	
	United States	284,904	457	285,361	
	United Kingdom	425,287	—	425,287	
	Bermuda	166,780	—	166,780	
	Greece	42,913	—	42,913	
	Italy	—	2,422	2,422	
	Netherlands	59,900	30	59,930	
	Norway	34,564	3,597	38,161	
	Sweden	—	2,084	2,084	
	Other Europe	—	14	14	
	Other Central America and Caribbean	4,950	—	4,950	
	Totals	6,294,068	236,322	6,530,390	
	Ports outside the Gulf of St. Lawrence	Canada	52,088	10,963	63,051
		United States	14,282	9,120	23,402
United Kingdom		269,059	172,393	441,452	
Denmark		16,471	401	16,872	
Finland		67	18,733	18,800	
France		2,049	16,345	18,394	
Germany		73,994	335,121	409,115	
Greece		77,450	3,816	81,266	
Italy		30,705	8,567	39,272	
Netherlands		4,522	70,660	75,182	
Norway		375,264	106,365	481,629	
Sweden		43,413	55,613	99,026	
Other Europe		46	7,934	7,980	
Panama		160,912	8,740	169,652	
Other Central America and Caribbean		7,832	—	7,832	
Middle East		440	13,961	14,401	
Other Asia		—	21,205	21,205	
Liberia		262,667	111	262,778	
Other Africa		25,044	2,668	27,712	
Totals		1,416,345	862,716	2,279,061	
In transit		1,028	—	1,028	
Grand totals		7,711,441	1,099,038	8,810,479	

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	5,416,719	14,632	5,431,351
	United States	122,946	4,584	127,530
	United Kingdom	312,866	52	312,918
	Bermuda	100,692	—	100,692
	Germany	3,336	37	3,373
	Greece	14,334	—	14,334
	Norway	3,100	134	3,234
	Other Europe	4,530	265	4,795
	Other Central America and Caribbean	7,645	—	7,645
	Totals	5,986,168	19,904	6,006,072
	Ports outside the Gulf of St. Lawrence	Canada	83,581	16,101	99,682
United States		52,142	64,514	116,656
United Kingdom		1,036,415	170,934	1,207,349
Other British Commonwealth		—	28,643	28,643
Denmark		55,168	9,982	65,150
Finland		10,463	28,985	39,448
France		102,972	6,451	109,423
Germany		421,366	276,694	698,060
Greece		472,066	28,222	500,288
Italy		99,400	16,252	115,652
Netherlands		135,757	100,145	235,902
Norway		822,960	132,785	955,745
Sweden		228,312	105,638	333,950
Other Europe		118,127	17,534	135,661
Panama		68,633	3,444	72,077
Other Central America and Caribbean		—	17	17
South America		—	9,229	9,229
Middle East		17,023	35,376	52,399
Other Asia		20,911	18,872	39,783
Liberia		660,927	65,464	726,391
Other Africa		8,920	—	8,920
Totals		4,395,343	1,135,282	5,530,625
In transit	1,028	—	1,028	
Grand totals	10,382,539	1,155,186	11,537,725	

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

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

Kind of vessel and gross tonnage	Upbound							Downbound							
	Number of vessels			Cargo tons			Average cargo tons per loaded vessel	Number of vessels			Cargo tons			Average cargo tons per loaded vessel	
	In ballast	With cargo	Total	Bulk	General	Total		In ballast	With cargo	Total	Bulk	General	Total		
Cargo vessel:															
Under 1,000 gross tons	125	40	165	44,833	8,086	52,919	1,323.0	122	43	165	19,383	4,811	24,194	562.6	
1,000 to 1,999	333	450	783	562,748	241,389	804,137	1,787.0	41	699	740	1,496,394	210,905	1,707,299	2,442.5	
2,000 " 2,999	108	499	607	594,863	455,238	1,050,101	2,338.7	44	554	598	1,314,376	265,921	1,580,297	2,852.5	
3,000 " 3,999	55	143	198	424,820	73,644	498,464	3,485.8	11	183	194	778,207	78,999	857,206	4,684.2	
4,000 " 4,999	52	146	198	340,895	135,452	476,347	3,262.6	21	187	208	913,189	129,949	1,043,138	5,578.3	
5,000 " 5,999	29	70	99	262,741	59,466	322,207	4,603.0	4	97	101	526,887	88,035	614,922	6,339.4	
6,000 " 6,999	35	56	91	215,801	35,731	251,532	4,491.6	-	91	91	592,663	117,149	709,812	7,880.1	
7,000 " 7,999	93	64	157	223,011	40,383	263,394	4,115.5	9	149	158	1,123,590	138,436	1,262,026	8,470.0	
8,000 " 8,999	40	30	70	276,687	12,314	289,001	9,633.4	9	63	72	548,637	61,083	609,720	9,678.1	
9,000 " 9,999	14	33	47	275,037	23,403	298,440	9,043.6	7	40	47	299,631	38,823	338,454	8,461.3	
10,000 " 10,999	19	23	42	67,036	13,734	80,770	3,511.7	6	37	43	376,450	8,982	385,432	10,417.1	
11,000 " 11,999	3	14	17	224,055	-	224,055	16,004.0	6	14	20	189,688	-	189,688	13,549.1	
12,000 " 12,999	10	22	32	398,304	-	398,304	18,104.7	14	20	34	308,555	-	308,555	15,427.7	
13,000 " 13,999	7	15	22	291,030	-	291,030	19,402.0	3	20	23	355,911	-	355,911	17,795.5	
14,000 " 14,999	-	13	13	197,890	-	197,890	15,222.3	-	12	12	185,466	-	185,466	15,455.5	
15,000 " 15,999	3	18	21	420,744	-	420,744	23,374.7	12	10	22	214,657	-	214,657	2,146.6	
16,000 " 16,999	1	7	8	172,950	-	172,950	24,707.1	7	1	8	22,949	-	22,949	22,949.0	
17,000 and over	5	33	38	835,624	-	835,624	25,322.0	24	13	37	315,551	-	315,551	24,273.1	
Totals	932	1,676	2,608	5,829,069	1,098,840	6,927,909	4,133.6	340	2,233	2,573	9,582,184	1,143,093	10,725,277	4,803.0	
Barge or scow:															
Under 1,000 gross tons	156	-	156	-	-	-	-	157	-	157	-	-	-	-	
1,000 to 1,999	91	-	91	-	-	-	-	100	-	100	-	-	-	-	
2,000 " 2,999	2	-	2	-	-	-	-	3	-	3	-	-	-	-	
Totals	249	-	249	-	-	-	-	260	-	260	-	-	-	-	
Tag and scow:²															
Under 1,000 gross tons	260	6	266	176	-	176	29.3	212	66	278	2,410	-	2,410	36.5	
1,000 to 1,999	46	2	48	240	-	240	120.0	16	48	64	56,399	-	56,399	1,175.0	
5,000 " 5,999	2	-	2	-	-	-	-	-	2	2	-	5,059	5,059	2,529.5	
Totals	308	8	316	416	-	416	52.0	228	116	344	58,809	5,059	63,868	550.6	
Tanker:															
Under 1,000 gross tons	6	38	44	7,814	-	7,814	205.6	32	11	43	8,413	-	8,413	764.8	
1,000 to 1,999	17	164	181	434,824	-	434,824	2,651.4	145	35	160	80,285	-	80,285	2,293.8	
2,000 " 2,999	7	102	109	336,042	-	336,042	3,294.5	100	8	108	12,922	-	12,922	1,615.2	
3,000 " 3,999	3	49	52	245,570	-	245,570	6,139.2	38	11	49	30,572	-	30,572	2,779.3	
4,000 " 4,999	-	4	4	34,594	-	34,594	8,648.5	1	2	3	18,816	-	18,816	9,408.0	
5,000 " 5,999	4	1	5	387	-	387	387.0	1	5	5	51,374	-	51,374	10,274.8	
6,000 " 6,999	7	3	10	31,801	-	31,801	10,600.3	1	7	8	80,448	-	80,448	11,492.6	
7,000 " 7,999	24	14	38	160,068	-	160,068	11,433.4	10	25	35	300,472	-	300,472	12,018.9	
8,000 " 8,999	5	5	10	62,217	-	62,217	12,443.4	3	5	8	63,300	-	63,300	12,660.0	
9,000 " 9,999	2	28	30	314,670	-	314,670	11,238.2	23	4	27	68,949	-	68,949	17,237.2	
10,000 " 10,999	2	19	21	251,261	-	251,261	13,224.3	18	2	20	29,572	-	29,572	14,786.0	
Totals	77	427	504	1,879,248	-	1,879,248	4,401.0	371	115	486	745,123	-	745,123	6,479.3	
Other vessels:															
Under 1,000 gross tons	769	-	769	-	-	-	-	754	-	754	-	-	-	-	
1,000 to 1,999	39	1	40	18	-	18	18.0	38	-	38	-	-	-	-	
2,000 " 2,999	4	-	4	-	-	-	-	4	-	4	-	-	-	-	
3,000 " 3,999	3	-	3	-	-	-	-	4	-	4	-	-	-	-	
4,000 " 4,999	1	-	1	-	-	-	-	-	-	-	-	-	-	-	
5,000 " 5,999	-	1	1	2,888	-	2,888	2,888.0	-	1	1	-	3,457	3,457	3,457.0	
Totals	816	2	818	2,906	-	2,906	1,453.0	800	1	801	-	3,457	3,457	3,457.0	
Grand totals	2,382	2,113	4,495	7,711,639	1,098,840	8,810,479	4,169.6	1,999	2,465	4,464	10,386,116	1,151,609	11,537,725	4,680.6	

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

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					
	Products of agriculture:						
1	Corn	1,094	—	—	—	—	—
2	Grain, n.o.s.	—	—	—	—	—	—
3	Flour	—	—	—	—	—	2
4	Products of agriculture, n.o.s.	274	—	—	—	1,178	70
5	Totals	1,368	—	—	—	1,178	72
	Animals and products:						
6	Sea food	—	5,541	—	—	—	—
7	Fish and sea animal oil	1,438	32,200	—	—	107	—
8	Animals and products, n.o.s.	535	392	—	—	513	278
9	Totals	1,973	38,133	—	—	620	278
	Products of mines:						
10	Bituminous coal	314,459	2,564	—	—	—	—
11	Iron ore	250,684	4,009,594	—	—	—	49
12	Aluminum ore and concentrates	—	—	—	—	—	—
13	Clay and bentonite	—	—	—	—	6,680	18,396
14	Stone, rough	—	—	—	—	—	—
15	Petroleum, crude	38,061	—	—	—	—	—
16	Phosphate rock	62,770	—	1,222	—	—	—
17	Sulphur	38,229	—	5,441	22,570	—	—
18	Products of mines, n.o.s.	14,462	28,117	9,871	11,913	511	31
19	Totals	718,665	4,040,275	16,534	34,483	7,191	18,476
	Products of forests:						
20	Logs, butts and bolts	—	2,600	—	—	—	—
21	Pulpwood	170,988	106,735	—	—	—	—
22	Veneer, plywood	—	—	—	—	—	—
23	Products of forests, n.o.s.	—	—	—	—	68	—
24	Totals	170,988	109,335	—	—	68	—
	Manufactures and miscellaneous:						
25	Gasoline	19,283	—	—	—	—	—
26	Fuel, road, and petroleum residual oils	798,720	55,896	3,487	—	—	—
27	Lubricating oils and greases	86,734	—	4,301	—	—	—
28	Vegetable and nut oils	1,205	—	—	—	6,008	5,545
29	Rubber, natural and synthetic	—	—	—	—	326	—
30	Chemicals	—	11,700	2,063	—	6,555	1,771
31	Sodium	—	—	7,108	—	187	84
32	Fertilizers	19,486	—	13,284	—	57	—
33	Tar, pitch and creosote	7,632	—	—	—	249	—
34	Aluminum: bar, ingot, pig and slab	21,705	7,379	—	—	—	—
35	Aluminum, n.o.s.	6,007	1,209	—	—	61	95
36	Alloys for steel manufacture	—	—	—	—	—	—
37	Metals and alloys, n.o.s.	—	—	—	—	1,557	1,631
38	Iron, pig	3,361	44,617	—	—	—	—
39	Iron and steel: bar, rod and slab	—	—	—	—	3,373	1,729
40	Iron and steel, n.o.s.	269	—	—	—	4,465	2,845
41	Iron and steel nails and wire	—	—	—	—	2,412	1,143
42	Manufactured iron and steel	6,664	249	—	—	12,994	3,849
43	Iron and steel pipe and fittings	—	—	—	—	6,006	926
44	Machinery and parts	157	—	—	—	1,913	2,881
45	Rails and railway track material	3,338	—	—	—	—	—
46	Automobiles, passenger	—	—	—	—	1,531	8,838
47	Motor vehicles, n.o.s.	—	4	—	—	1,522	1,382
48	Vehicle parts	—	—	—	—	406	1,838
49	Cement	14,145	—	—	—	95	—
50	Bricks and building tile	—	—	—	—	2,597	236
51	Woodpulp	7,683	5,050	—	—	—	—
52	Newsprint, paper	—	266,909	—	—	—	—
53	Wallboard	—	—	—	—	68	—
54	Glass	—	—	—	—	1,068	5,256
55	Binder twine	—	—	—	—	387	400
56	Liquors, alcoholic	—	—	—	—	3,125	20,881
57	Wine	—	—	—	—	480	320
58	Syrup and molasses, refined	—	—	—	—	—	—
59	Molasses, residual	—	—	—	—	—	—
60	Sugar	281	49	—	—	—	—
61	Food products	—	—	2,215	—	8,625	2,333
62	Manufactures and miscellaneous	17,353	7,676	24	2,888	49,705	15,219
63	Totals	1,014,023	400,738	32,482	2,888	115,772	79,202
64	Domestic package freight	173,288	—	—	—	—	—
65	In transit freight	—	—	—	—	—	—
86	Grand totals	2,080,305	4,588,481	49,016	37,371	124,829	98,028

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									
—	—	—	—	—	—	1,094	—	1,094	1
—	—	144	3,050	—	—	144	3,050	3,194	2
—	—	4	—	10	5,520	14	5,522	5,536	3
148	331	9,700	2,245	5,325	1,721	16,625	4,367	20,992	4
148	331	9,848	5,295	5,335	7,241	17,877	12,939	30,816	5
—	—	—	207	—	—	—	5,748	5,748	6
—	—	—	2,806	—	3,105	1,545	38,111	39,656	7
—	—	2,503	7,087	—	558	3,551	8,315	11,866	8
—	—	2,503	10,100	—	3,663	5,096	52,174	57,270	9
—	—	—	—	—	—	314,459	2,564	317,023	10
—	—	—	—	—	—	250,684	4,061,822	4,312,506	11
18,347	5,314	—	31,297	55,664	6,720	74,011	43,331	117,342	12
—	—	26	40	—	—	6,706	18,436	25,142	13
—	—	1,646	2,454	—	—	1,646	2,454	4,100	14
152,775	—	—	—	151,751	—	342,587	—	342,587	15
—	—	—	—	—	—	63,992	—	63,992	16
—	—	—	—	—	—	43,670	29,074	72,744	17
—	187	7,584	36,179	7,171	25,682	39,599	102,109	141,708	18
171,122	5,501	9,256	69,970	214,586	91,085	1,137,354	4,259,790	5,397,144	19
—	—	—	—	—	—	—	2,600	2,600	20
—	—	1,042	2,278	1,962	1,005	170,988	106,735	277,723	21
47	137	1,093	690	2,195	2,393	3,004	3,283	6,287	22
47	137	2,135	2,968	4,157	3,398	3,403	3,220	6,623	23
—	—	—	—	—	—	—	—	—	24
—	—	—	—	—	—	19,283	—	19,283	25
90,557	—	—	—	223,349	11,754	1,116,113	67,650	1,183,763	26
22,042	—	—	—	34,882	—	147,959	—	147,959	27
1,462	—	392	8,844	1,984	154	11,051	14,543	25,594	28
837	692	—	—	1,524	3,428	2,687	4,120	6,807	29
—	—	25,930	42,478	372	—	34,920	55,949	90,869	30
—	—	188	20	—	—	7,483	104	7,587	31
—	—	7,038	414	—	—	39,865	414	40,279	32
—	—	—	—	—	—	7,881	—	7,881	33
—	—	—	4,694	—	—	21,705	12,073	33,778	34
—	—	—	75	—	—	6,068	1,379	7,447	35
—	—	1,680	7,815	—	229	1,680	8,044	9,724	36
140	1,971	829	7,589	297	1,285	2,823	12,476	15,299	37
—	—	—	—	—	—	3,361	44,617	47,978	38
—	—	1,355	8,138	—	508	4,728	10,375	15,103	39
—	—	6,162	16,949	196	211	11,092	20,005	31,097	40
—	—	4,817	28,568	—	1,545	7,229	31,256	38,485	41
—	—	32,558	145,351	252	—	52,468	150,323	202,791	42
—	—	1,270	8,794	—	—	7,276	9,954	17,230	43
—	—	1,613	1,402	—	—	3,683	4,283	7,966	44
—	—	—	517	—	—	3,338	517	3,855	45
—	—	9,930	20,439	—	14	11,461	29,291	40,752	46
—	—	390	—	—	—	1,912	1,386	3,298	47
—	—	1,136	1,220	—	—	1,542	3,058	4,600	48
—	—	8,156	94	—	—	22,396	94	22,490	49
—	—	468	415	—	—	3,065	651	3,716	50
—	—	2,038	41,916	—	—	9,721	46,966	56,687	51
—	—	—	—	—	—	—	266,909	266,909	52
—	—	1,694	1,996	—	448	1,762	2,444	4,206	53
—	—	6,881	24,408	—	—	7,949	29,664	37,613	54
—	—	1,481	7,746	—	—	1,868	8,146	10,014	55
—	—	246	885	—	—	3,371	21,766	25,137	56
—	—	1,236	4,892	—	—	1,716	5,212	6,928	57
6,926	21,559	—	—	19,226	20,650	26,152	42,209	68,361	58
19,806	—	—	—	25,653	7,840	—	7,840	7,840	59
747	144	2	—	2,191	9,360	45,742	9,409	55,151	60
227	553	18,893	23,200	2,191	1,752	32,671	27,429	60,100	61
—	—	47,610	74,518	4,996	2,354	119,915	103,208	223,123	62
143,744	24,919	183,993	483,377	314,922	62,640	1,803,936	1,053,764	2,857,700	63
—	—	—	—	—	—	173,288	—	173,288	64
—	—	—	—	—	—	—	—	1,028	65
314,061	30,888	207,735	571,710	539,000	168,027	3,314,946	5,494,505	8,810,479	66

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						
	Products of agriculture:							
1	Wheat	2,864,811	—	141,625	382	129,006	28,623	3,164,447
2	Corn	28,189	—	—	—	23,370	—	51,559
3	Oats	162,726	—	3,950	158	3,391	—	170,225
4	Barley	331,496	—	69,514	—	23,281	—	424,291
5	Rye	8,384	—	—	—	—	—	8,384
6	Grain, n.o.s.	1,064	—	—	—	—	—	1,064
7	Flour, wheat	34,063	—	10,294	7,981	—	1,641	53,979
8	Meal, corn	—	—	—	—	—	—	—
9	Mill products, n.o.s.	13,009	—	17,135	858	484	200	31,686
10	Soybeans	70,029	—	7,937	—	—	—	77,966
11	Soybean oil cake and meal	878	—	117,170	—	—	—	118,048
12	Vegetable and nut oil, cake and meal	—	—	1,554	—	—	—	1,554
13	Beans and peas, dried	—	—	3,380	—	—	—	3,380
14	Malt	48,849	—	1,253	—	—	—	50,102
15	Flaxseed	150,139	—	48,894	—	22,388	—	221,421
16	Products of agriculture, n.o.s.	—	—	2,533	158	1,660	119	4,470
17	Totals	3,713,637	—	425,239	9,537	203,580	30,583	4,382,576
	Animals and products:							
18	Meats, fresh	—	—	—	—	—	103	103
19	Packing house products	—	—	446	—	72	—	518
20	Hides, skins and pelts	—	—	54	—	8,594	1,384	10,032
21	Animals and products, n.o.s.	—	—	3,690	317	3,107	863	7,977
22	Totals	—	—	4,190	317	11,773	2,350	18,630
	Products of mines:							
23	Bituminous coal	4,457	—	—	—	—	—	4,457
24	Coke	—	—	3,396	—	—	—	3,396
25	Zinc ore and concentrates	—	—	—	—	8,050	—	8,050
26	Clay and bentonite	—	—	—	—	—	—	—
27	Stone, broken, crushed	5,770	—	—	—	—	—	5,770
28	Asphalt	—	—	220	—	—	—	220
29	Salt	119,179	—	170	—	—	—	119,349
30	Products of mines, n.o.s.	1,609	—	37	92	626	—	2,364
31	Totals	131,015	—	3,823	92	8,676	—	143,606
	Products of forests:							
32	Logs, butts and bolts	94	—	944	—	685	—	1,723
33	Lumber shingles and lath	—	—	1,288	200	256	—	1,744
34	Products of forest, n.o.s.	—	—	805	48	109	—	962
35	Totals	94	—	3,037	248	1,050	—	4,429
	Manufactures and miscellaneous:							
36	Gasoline	17,855	—	—	—	—	—	17,855
37	Fuel, road and petroleum residual oils	2,336	—	—	—	—	—	2,336
38	Lubricating oils and greases	5,597	—	—	—	240	—	5,837
39	Petroleum products refined	12,719	—	54	—	76	3	12,852
40	Soybean oil	2,595	—	13,639	—	—	—	16,234
41	Rubber, natural and synthetic	—	—	5,733	1,800	27,624	4,132	39,289
42	Chemicals	12,664	—	15,524	96	5,990	1,642	35,916
43	Tar, pitch and creosote	37,982	—	86	50	—	—	38,118
44	Plastics	—	—	903	48	1,266	733	2,950
45	Aluminum: bar, ingot, pig and slab	—	—	—	—	—	—	—
46	Metals and alloys	78	59	2,745	39	20,082	489	23,492
47	Iron and steel: billet, bloom and ingot	875	—	42,058	—	9,252	23,655	75,840
48	Iron and steel: bar, rod and slab	1,015	—	12,287	74	44,871	76	58,323
49	Iron and steel, n.o.s.	2,333	—	10,972	193	1,271	22,737	37,506
50	Manufactured iron and steel	6,106	—	56,166	210	40,669	26,303	129,454
51	Machinery and machines	502	—	189	—	323	1,656	2,670
52	Rails and railway track material	—	—	—	—	—	—	—
53	Automobiles, passenger and freight	35	—	157	—	1,558	323	2,073
54	Motor vehicles, n.o.s.	—	—	163	—	164	51	378
55	Vehicle parts	—	—	49	—	686	438	1,173
56	Electrical equipment and parts	—	—	—	—	1,744	—	1,744
57	Furnaces, heaters and parts	—	—	46	—	—	—	46
58	Food products	350	—	851	364	1,666	5,855	9,086
59	Feed, animal and poultry	97,564	—	83,880	—	3,283	94	184,821
60	Scrap iron and steel	—	—	16,851	—	44,712	59,279	120,842
61	Furnace slag	9,950	—	—	—	—	—	9,950
62	Waste materials for remelting	—	—	782	—	17,160	845	18,787
63	Manufactures and miscellaneous, n.o.s.	4,804	5,646	10,944	1,001	15,886	4,524	42,805
64	Totals	215,360	5,705	274,079	3,875	238,523	152,835	890,377
65	Domestic package freight	352,613	—	—	—	—	—	352,613
66	In transit freight	—	—	—	—	—	—	—
67	Grand totals	4,412,719	5,705	710,368	14,069	463,602	185,768	5,792,231

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

WELLAND CANAL

TABLE 15. Location and Description

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

TABLE 16. Historical Summary, 1951-60

Registry of vessel	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Vessel transits										
Upbound:										
Canada	3,089	3,560	3,598	3,140	3,260	3,366	3,195	3,007	2,604	2,446
United States	944	992	907	900	1,094	985	991	852	789	664
United Kingdom .....	..	..	..	..	31	41	44	57	226	261
Other foreign	99	155	283	262	312	324	372	489	727	765
Totals	4,132	4,707	4,788	4,302	4,697	4,716	4,602	4,405	4,346	4,136
Downbound:										
Canada	2,999	3,399	3,462	3,080	3,245	3,298	3,191	2,978	2,554	2,362
United States	883	893	854	836	1,053	985	953	815	778	631
United Kingdom .....	..	..	..	..	33	40	42	53	242	269
Other foreign	99	159	268	261	306	321	366	485	729	771
Totals	3,981	4,451	4,584	4,177	4,637	4,644	4,552	4,331	4,303	4,033
Grand totals	8,113	9,158	9,372	8,479	9,334	9,360	9,154	8,736	8,649	8,169
Registered net tons										
Upbound:										
Canada	5,534,903	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
United States	1,681,030	1,528,380	1,442,241	1,393,178	1,539,429	1,439,363	1,530,133	1,255,100	1,363,458	1,081,348
United Kingdom .....	..	..	..	..	21,080	28,840	29,235	36,774	724,092	916,379
Other foreign	73,605	116,301	214,824	217,187	259,013	275,406	314,429	411,234	1,574,929	2,014,373
Totals	7,289,538	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
Downbound:										
Canada	5,403,965	6,410,504	7,332,471	6,733,184	7,719,372	8,288,581	7,869,268	7,585,201	7,266,006	7,653,010
United States	1,607,750	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
United Kingdom .....	..	..	..	..	22,968	28,067	26,166	34,047	755,799	926,891
Other foreign	75,467	121,142	205,485	217,603	251,551	270,682	307,547	403,892	1,582,943	2,051,355
Totals	7,087,182	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
Grand totals	14,376,720	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
Cargo tons										
Upbound:										
Canada .....	..	..	..	..	3,265,976	4,183,451	4,403,553	4,179,508	7,073,632	5,776,293
United States .....	..	..	..	..	687,670	566,891	465,645	433,776	894,109	855,226
United Kingdom .....	..	..	..	..	25,573	32,756	16,832	34,970	562,631	791,772
Other foreign .....	..	..	..	..	260,773	286,214	254,642	357,333	1,066,194	976,432
Totals	2,752,439	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
Downbound:										
Canada .....	..	..	..	..	14,100,847	15,373,069	14,258,609	13,666,961	12,313,690	14,191,374
United States .....	..	..	..	..	2,201,827	2,294,298	2,605,432	2,124,193	1,835,374	1,338,914
United Kingdom .....	..	..	..	..	16,503	32,028	35,615	43,477	1,119,736	1,610,708
Other foreign .....	..	..	..	..	314,403	297,554	332,210	433,976	2,640,658	3,740,018
Totals	13,445,485	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
Grand totals	16,197,924	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
Season of navigation										
First vessel passage	March 29	March 27	March 28	March 25	March 30	March 31	March 30	April 1	April 6	April 1
Last vessel passage	Dec. 20	Dec. 19	Dec. 20	Dec. 17	Dec. 17	Dec. 20	Dec. 18	Dec. 18	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	1,430	1,337	2,767	10,231,807	14,971,316	6,983,419	107
Passenger-cargo	9	40	49	122,743	222,742	34,913	678
Cargo-passenger	10	235	245	424,725	756,227	279,921	159
Scow, barge, etc.	40	10	50	21,550	22,252	12,431	—
Tug and scow ¹	234	232	466	271,936	290,154	272,234	5
Tanker	175	212	387	878,718	1,454,322	813,917	—
Tug or dredge	132	—	132	22,777	32,608	—	—
Naval or Government	31	1	32	22,686	29,784	2,888	—
All other types	8	—	8	298	519	—	—
Totals	2,069	2,067	4,136	11,997,240	17,779,924	8,399,723	949
Downbound:							
Cargo	173	2,593	2,766	10,298,736	15,116,872	18,658,846	105
Passenger-cargo	3	28	31	97,304	175,190	120,255	1,097
Cargo-passenger	—	221	221	386,816	687,070	594,754	109
Scow, barge, etc.	27	7	34	16,001	16,729	17,435	—
Tug and scow ¹	140	318	458	261,436	282,222	375,804	—
Tanker	157	220	377	815,474	1,345,013	1,110,463	5
Tug or dredge	107	—	107	9,799	19,082	—	—
Naval or Government	34	1	35	24,491	31,791	3,457	—
All other types	4	—	4	192	280	—	—
Totals	645	3,388	4,033	11,910,249	17,674,249	20,881,014	1,316
Grand totals	2,714	5,455	8,169	23,907,489	35,454,173	29,280,737	2,265

¹ Assessed as one unit.

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	1,424	1,022	2,446	7,985,140	11,367,240	5,776,293	—
United States	334	330	664	1,081,348	1,392,203	855,226	454
United Kingdom	66	161	227	805,642	1,386,130	683,539	46
Other British Commonwealth	18	16	34	110,737	163,068	108,233	—
Denmark	10	1	11	6,490	12,198	217	—
Finland	1	11	12	11,510	23,981	16,553	—
France	3	15	18	47,293	87,323	12,689	3
Germany	11	196	207	326,084	561,662	294,933	52
Greece	34	14	48	236,141	389,942	112,742	—
Italy	9	16	25	76,367	132,043	38,182	6
Netherlands	5	50	55	140,933	240,272	107,071	263
Norway	56	119	175	471,179	827,414	221,575	54
Sweden	13	74	87	174,263	319,652	78,209	43
Other Europe	14	6	20	54,244	99,021	3,715	5
Panama	5	6	11	27,933	47,072	7,064	—
Other Central America and Caribbean ¹	3	1	4	14,214	22,177	4,950	—
Middle East	—	11	11	29,236	52,858	9,514	21
Liberia	58	8	66	333,833	545,277	46,136	2
Other countries	5	10	15	64,653	110,391	22,882	—
Totals	2,069	2,067	4,136	11,997,240	17,779,924	8,399,723	949
Downbound:							
Canada	473	1,889	2,362	7,853,010	11,179,303	14,191,374	1
United States	127	504	631	1,078,993	1,397,638	1,388,914	806
United Kingdom	21	211	232	806,717	1,384,655	1,429,358	45
Other British Commonwealth	16	21	37	120,174	176,391	181,350	—
Denmark	—	16	16	27,010	45,497	59,141	—
Finland	—	13	13	12,614	26,333	24,613	—
France	—	19	19	51,600	94,583	106,991	—
Germany	2	200	202	318,111	548,836	586,327	66
Greece	—	47	47	235,947	392,325	468,867	—
Italy	—	24	24	64,829	112,705	111,177	9
Netherlands	—	56	56	145,358	250,016	207,133	291
Norway	2	175	177	469,514	825,426	879,933	42
Sweden	—	97	97	179,604	328,707	294,365	25
Other Europe	—	23	23	63,877	117,333	127,990	2
Panama	—	11	11	25,603	43,067	58,766	—
Other Central America and Caribbean ¹	1	3	4	16,656	23,344	21,670	—
Middle East	—	11	11	29,236	52,858	54,960	24
Other Asia	—	10	10	47,810	82,182	29,328	—
Liberia	3	68	71	363,586	595,050	658,757	5
Totals	645	3,388	4,033	11,910,249	17,674,249	20,881,014	1,316
Grand totals	2,714	5,455	8,169	23,907,489	35,454,173	29,280,737	2,265

¹ Includes South America.

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	92	4	96	2,893	6,816	56	—
80 to 119 feet	149	12	161	32,093	37,231	7,344	—
120 " 159 "	38	19	57	22,762	31,611	13,834	—
160 " 199 "	28	13	41	20,822	28,105	40,982	5
200 " 239 "	152	241	393	268,777	310,095	273,869	—
240 " 279 "	523	730	1,253	1,632,385	2,522,804	1,509,028	12
280 " 319 "	28	135	163	217,727	357,766	241,830	133
320 " 359 "	63	171	234	473,192	743,292	527,205	333
360 " 399 "	59	161	220	486,716	809,817	385,654	106
400 " 439 "	170	89	259	796,927	1,252,090	295,086	46
440 " 479 "	190	153	343	1,302,954	2,087,444	574,266	282
480 " 519 "	139	112	251	1,253,823	1,906,937	823,064	29
520 " 559 "	104	62	166	1,015,704	1,482,992	683,406	2
560 " 599 "	57	42	99	668,250	962,449	524,137	—
600 " 639 "	107	45	152	1,151,011	1,654,699	745,978	—
640 " 679 "	75	25	100	916,755	1,258,116	499,146	—
680 " 719 "	95	53	148	1,734,449	2,327,660	1,254,838	1
Totals	2,069	2,067	4,136	11,997,240	17,779,924	8,399,723	949
Downbound:							
Under 80 feet	81	—	81	2,777	5,593	—	—
80 to 119 feet	142	12	154	23,715	29,457	8,486	—
120 " 159 "	34	16	50	17,363	26,410	13,867	—
160 " 199 "	20	3	23	10,403	16,494	4,548	—
200 " 239 "	31	348	379	253,958	292,131	428,238	—
240 " 279 "	163	1,036	1,199	1,539,164	2,397,764	2,718,248	16
280 " 319 "	19	147	166	218,169	363,384	355,997	484
320 " 359 "	31	199	230	461,679	728,720	844,220	341
360 " 399 "	25	194	219	485,864	807,981	756,208	126
400 " 439 "	6	260	266	814,936	1,273,044	1,657,138	34
440 " 479 "	17	329	346	1,321,796	2,118,268	2,123,656	299
480 " 519 "	15	231	246	1,230,549	1,868,966	1,992,683	16
520 " 559 "	23	150	173	1,036,775	1,508,068	1,662,571	—
560 " 599 "	8	92	100	675,664	977,354	1,126,531	—
600 " 639 "	14	130	144	1,089,044	1,563,413	2,134,610	—
640 " 679 "	2	106	108	983,918	1,354,523	2,056,434	—
680 " 719 "	14	135	149	1,744,475	2,342,679	2,997,579	—
Totals	645	3,388	4,033	11,910,249	17,674,249	20,881,014	1,316
Grand totals	2,714	5,455	8,169	23,907,489	35,454,173	29,280,737	2,265

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	753	1,441,912	2,166,881	691	3,553,515	4,962,555	1,444	4,995,427	7,129,436
United States	11	13,514	16,164	232	555,681	709,886	243	569,195	726,050
United Kingdom	3	5,353	8,533	4	18,264	26,763	7	23,617	35,296
Other British Commonwealth	4	8,788	14,352	7	26,950	36,621	11	35,738	50,973
Germany	—	—	—	1	5,810	8,532	1	5,810	8,532
Norway	—	—	—	3	3,953	6,924	3	3,953	6,924
Sweden	—	—	—	1	1,474	2,724	1	1,474	2,724
Liberia	1	4,444	7,257	—	—	—	1	4,444	7,257
Totals	772	1,474,011	2,213,187	939	4,165,647	5,754,005	1,711	5,639,658	7,967,192
Originating at ports on the St. Lawrence river:									
Registry:									
Canada	407	944,670	1,372,694	578	2,009,425	2,807,290	985	2,954,095	4,179,984
United States	1	8,624	8,624	69	173,275	231,995	70	181,899	240,619
United Kingdom	20	72,368	123,408	46	263,898	418,933	66	336,266	542,341
Other British Commonwealth	8	16,016	27,208	11	45,694	61,933	19	61,710	89,141
Denmark	—	—	—	1	623	1,000	1	623	1,000
Finland	—	—	—	1	2,286	4,688	1	2,286	4,688
France	—	—	—	1	4,380	7,303	1	4,380	7,303
Germany	—	—	—	2	3,282	5,497	2	3,282	5,497
Greece	—	—	—	4	28,164	51,936	4	28,164	51,936
Italy	—	—	—	5	9,543	16,774	5	9,543	16,774
Netherlands	—	—	—	4	35,772	55,696	4	35,772	55,696
Norway	—	—	—	15	37,017	63,505	15	37,017	63,505
Sweden	—	—	—	1	1,012	2,030	1	1,012	2,030
Other Europe	2	5,076	10,098	—	—	—	2	5,076	10,098
Other Central America and Caribbean	1	3,587	4,614	1	1,649	3,041	2	5,236	7,655
Liberia	1	5,931	9,168	3	14,178	23,653	4	20,109	32,821
Totals	440	1,056,272	1,555,814	742	2,630,198	3,755,274	1,182	3,686,470	5,311,088

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

Port or 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	17,735	28,565	13	17,883	29,255	17	35,618	57,820
United States	18	14,015	14,826	333	316,239	410,708	351	330,254	425,534
United Kingdom	36	118,410	208,734	118	327,349	599,759	154	445,759	808,493
Other British Commonwealth	1	2,002	3,401	3	11,287	19,553	4	13,289	22,954
Denmark	4	2,274	4,442	6	3,593	6,756	10	5,867	11,198
Finland	—	—	—	11	9,224	19,293	11	9,224	19,293
France	—	—	—	17	42,913	80,020	17	42,913	80,020
Germany	6	10,665	16,686	198	306,327	530,947	204	316,992	547,633
Greece	3	13,349	21,057	41	194,628	316,949	44	207,977	338,006
Italy	3	15,956	27,111	17	50,868	88,158	20	66,824	115,269
Netherlands	—	—	—	51	105,161	184,576	51	105,161	184,576
Norway	15	49,650	86,513	142	380,559	670,472	157	430,209	756,985
Sweden	8	20,393	36,074	77	151,384	278,824	85	171,777	314,898
Other Europe	3	9,963	17,775	15	39,205	71,148	18	49,168	88,923
Panama	1	4,244	7,061	10	23,689	40,011	11	27,933	47,072
Middle East	—	—	—	11	29,236	52,858	11	29,236	52,858
Other Asia	—	—	—	10	47,810	82,182	10	47,810	82,182
Liberia	10	43,546	70,912	51	265,734	434,287	61	309,280	505,199
Other Countries	2	8,978	14,522	5	16,843	28,209	7	25,821	42,731
Totals	114	331,180	557,679	1,129	2,339,932	3,943,965	1,243	2,671,112	4,501,644
Grand totals	1,326	2,861,463	4,326,680	2,810	9,135,777	13,453,244	4,136	11,997,240	17,779,924

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	739	1,516,343	2,258,791	701	3,957,569	5,509,550	1,440	5,473,912	7,768,341
United States	6	17,485	22,240	197	555,094	721,713	203	572,579	743,953
United Kingdom	—	—	—	4	15,576	20,564	4	15,576	20,564
Other British Commonwealth	5	10,437	17,393	11	44,418	58,925	16	54,855	76,318
Other Central America and Caribbean	1	3,567	4,614	1	4,686	6,328	2	8,273	10,942
Totals	751	1,547,852	2,303,038	914	4,577,343	6,317,080	1,665	6,125,195	8,620,118
Destined to ports on the St. Lawrence river:									
Registry:									
Canada	530	1,536,745	2,199,750	371	799,089	1,145,271	901	2,335,834	3,345,021
United States	1	105	250	52	141,470	185,402	53	141,575	185,652
United Kingdom	27	130,138	214,401	9	34,355	50,481	36	164,493	264,882
Other British Commonwealth	11	26,598	42,078	5	23,430	31,640	16	50,028	73,718
Germany	—	—	—	1	1,142	1,653	1	1,142	1,653
Greece	—	—	—	1	7,724	14,430	1	7,724	14,430
Norway	—	—	—	1	1,004	2,047	1	1,004	2,047
Other Central America and Caribbean	1	3,894	5,141	—	—	—	1	3,894	5,141
Liberia	—	—	—	1	1,598	2,967	1	1,598	2,967
Totals	570	1,697,480	2,461,620	441	1,009,812	1,433,891	1,011	2,707,292	3,895,511
Destined to ports outside the Gulf of St. Lawrence:									
Registry:									
Canada	9	20,909	32,510	12	22,355	33,431	21	43,264	65,941
United States	3	1,718	2,187	372	363,121	465,846	375	364,839	468,033
United Kingdom	72	220,588	386,646	120	406,060	712,563	192	626,648	1,099,209
Other British Commonwealth	2	4,004	6,802	3	11,287	19,553	5	15,291	26,355
Denmark	6	5,978	10,757	10	21,032	34,740	16	27,010	45,497
Finland	2	1,346	2,818	11	11,268	23,515	13	12,614	26,333
France	1	4,307	7,260	18	47,293	87,323	19	51,600	94,583
Germany	9	14,872	25,433	192	302,097	521,750	201	316,969	547,183
Greece	4	17,971	29,006	42	210,252	348,889	46	228,223	377,895
Italy	2	8,280	14,128	22	56,549	98,577	24	64,829	112,705
Netherlands	3	6,397	10,621	53	138,961	239,395	56	145,358	250,016
Norway	14	39,917	69,431	162	428,593	753,948	176	468,510	823,379
Sweden	9	26,737	46,746	78	152,867	279,961	87	179,604	326,707
Other Europe	10	29,614	56,008	13	34,263	61,325	23	63,877	117,333
Panama	1	4,244	7,061	10	21,359	36,006	11	25,603	43,067
South America	1	4,489	7,261	—	—	—	1	4,489	7,261
Middle East	—	—	—	11	29,236	52,858	11	29,236	52,858
Other Asia	1	5,151	7,266	9	42,659	74,916	10	47,810	82,182
Liberia	11	46,250	74,332	59	315,738	517,751	70	361,988	592,083
Totals	160	462,772	796,273	1,197	2,614,990	4,362,347	1,357	3,077,762	5,158,620
Grand totals	1,481	3,708,104	5,560,931	2,552	8,202,145	12,113,318	4,033	11,910,249	17,674,249

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	1,768	7,081,072	10,124,918	565	882,284	1,218,446	113	21,784	23,876	2,446	7,985,140	11,367,240
United States	140	663,248	903,788	121	145,655	199,125	403	272,445	289,290	664	1,081,348	1,392,203
United Kingdom	87	289,204	486,451	140	516,438	899,679	—	—	—	227	805,642	1,386,130
Bermuda	29	94,666	135,965	—	—	—	—	—	—	29	94,666	135,985
Other British Commonwealth	2	7,380	11,625	3	8,691	15,478	—	—	—	5	16,071	27,103
Denmark	—	—	—	11	6,490	12,198	—	—	—	11	6,490	12,198
Finland	12	11,510	23,981	—	—	—	—	—	—	12	11,510	23,981
France	2	8,730	14,576	16	38,563	72,747	—	—	—	18	47,293	87,323
Germany	9	14,390	22,922	198	311,694	538,740	—	—	—	207	326,084	561,662
Greece	30	144,563	231,213	18	91,578	158,729	—	—	—	48	236,141	389,942
Italy	5	21,015	35,621	20	55,352	96,422	—	—	—	25	76,367	132,043
Netherlands	1	3,175	5,884	54	137,758	234,388	—	—	—	55	140,933	240,272
Norway	9	29,973	49,796	166	441,206	777,618	—	—	—	175	471,179	827,414
Sweden	2	3,256	5,691	85	171,007	313,961	—	—	—	87	174,263	319,652
Other Europe	2	6,961	11,859	18	47,283	87,162	—	—	—	20	54,244	99,021
Panama	3	14,275	23,184	8	13,658	23,888	—	—	—	11	27,933	47,072
Other Central America ¹	1	3,587	4,614	1	1,649	3,041	—	—	—	2	5,236	7,655
South America	2	8,978	14,522	—	—	—	—	—	—	2	8,978	14,522
Middle East	—	—	—	11	29,236	52,858	—	—	—	11	29,236	52,858
Other Asia	7	31,880	54,847	3	15,930	27,335	—	—	—	10	47,810	82,182
Liberia	39	202,620	328,015	27	131,213	217,262	—	—	—	66	333,833	545,277
Other Africa	4	12,393	20,966	1	4,450	7,243	—	—	—	5	16,843	28,209
Totals	2,154	8,652,876	12,510,438	1,466	3,050,135	4,956,320	516	294,229	313,166	4,136	11,997,240	17,779,924
Downbound:												
Canada	1,731	7,024,612	10,042,452	503	799,665	1,103,153	128	28,733	33,698	2,362	7,853,010	11,179,303
United States	144	679,174	920,571	132	156,229	217,253	355	243,590	259,814	631	1,078,993	1,397,638
United Kingdom	92	304,657	512,704	140	502,080	871,951	—	—	—	232	806,717	1,384,655
Bermuda	31	102,454	146,247	—	—	—	—	—	—	31	102,454	146,247
Other British Commonwealth	2	7,380	11,625	4	10,340	18,519	—	—	—	6	17,720	30,144
Denmark	3	16,816	26,984	13	10,194	18,513	—	—	—	18	27,010	45,497
Finland	12	11,490	23,981	1	1,124	2,352	—	—	—	13	12,614	26,333
France	3	13,037	21,836	16	38,563	72,747	—	—	—	19	51,600	94,583
Germany	7	12,482	21,233	195	305,629	527,603	—	—	—	202	318,111	548,836
Greece	27	124,419	199,789	20	111,528	192,536	—	—	—	47	235,947	392,325
Italy	6	25,127	42,777	18	39,702	69,928	—	—	—	24	64,829	112,705
Netherlands	2	7,979	14,230	54	137,379	235,786	—	—	—	56	145,358	250,016
Norway	10	36,531	62,316	167	432,983	763,110	—	—	—	177	469,514	825,426
Sweden	3	2,181	4,186	84	177,423	322,519	—	—	—	87	179,604	326,707
Other Europe	—	—	—	23	63,877	117,333	—	—	—	23	63,877	117,333
Panama	3	11,945	19,179	8	13,658	23,888	—	—	—	11	25,603	43,087
Other Central America ¹	3	12,167	16,083	—	—	—	—	—	—	3	12,167	16,083
South America	1	4,489	7,261	—	—	—	—	—	—	1	4,489	7,261
Middle East	—	—	—	11	29,236	52,858	—	—	—	11	29,236	52,858
Other Asia	6	28,555	50,628	4	19,255	31,554	—	—	—	10	47,810	82,182
Liberia	38	195,546	315,873	33	168,040	279,177	—	—	—	71	363,586	595,050
Totals	2,134	8,621,041	12,459,957	1,426	3,016,885	4,920,780	483	272,323	293,512	4,033	11,910,349	17,674,249
Grand totals	4,278	17,273,917	24,970,395	2,892	6,067,020	9,877,100	999	566,552	606,678	8,169	23,907,489	35,454,173

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:									
80 to 119 feet	1	138	198	1	138	198	2	276	396
120 " 159 "	18	9,261	15,250	17	7,539	12,958	35	16,800	28,208
160 " 199 "	13	5,002	10,115	12	4,726	9,542	25	9,728	19,657
200 " 239 "	37	30,971	51,302	34	25,846	43,800	71	56,817	95,102
240 " 279 "	1,010	1,339,954	2,048,905	953	1,243,644	1,917,884	1,963	2,583,598	3,966,789
280 " 319 "	136	188,045	314,192	139	188,417	319,740	275	376,462	633,932
320 " 359 "	207	414,607	653,733	205	412,069	650,437	412	826,676	1,304,170
360 " 399 "	205	455,904	758,838	204	454,235	757,013	409	910,139	1,515,851
400 " 439 "	258	792,518	1,244,872	260	798,087	1,252,978	518	1,590,605	2,497,850
440 " 479 "	335	1,275,172	2,047,310	339	1,298,636	2,086,083	674	2,573,808	4,133,393
480 " 519 "	226	1,118,365	1,676,613	226	1,117,752	1,673,160	452	2,236,117	3,349,773
520 " 559 "	123	731,451	1,014,807	134	791,244	1,106,144	257	1,522,695	2,120,951
560 " 599 "	92	615,672	873,675	93	623,086	888,580	185	1,238,758	1,762,255
600 " 639 "	152	1,151,011	1,654,699	144	1,089,044	1,563,413	296	2,240,055	3,216,112
640 " 679 "	100	916,755	1,258,118	108	983,918	1,354,523	208	1,900,673	2,612,639
680 " 719 "	148	1,734,449	2,327,660	149	1,744,475	2,342,679	297	3,478,924	4,670,339
Totals	3,061	10,779,275	15,950,285	3,018	10,782,856	15,979,132	6,079	21,562,131	31,929,417
Barge or scow:									
Under 80 feet	5	177	177	—	—	—	5	177	177
80 to 119 feet	34	9,896	9,999	28	6,992	7,063	62	16,888	17,062
120 " 159 "	3	1,706	1,706	1	356	356	4	2,062	2,062
160 " 199 "	1	375	375	—	—	—	1	375	375
200 " 239 "	7	9,396	9,995	4	5,834	5,920	11	15,230	15,915
360 " 399 "	—	—	—	1	2,819	3,390	1	2,819	3,390
Totals	50	21,550	22,252	34	16,001	18,729	84	37,551	38,981
Tug and scow:¹									
Under 80 feet	4	89	143	12	474	547	16	563	690
80 to 119 feet	82	16,550	18,645	86	13,501	15,748	168	30,051	34,393
120 " 159 "	12	3,617	3,843	8	2,116	2,591	20	5,733	6,434
160 " 199 "	16	9,394	10,266	4	948	1,081	22	10,342	11,347
200 " 239 "	338	220,996	235,107	332	216,965	231,719	670	437,961	466,826
240 " 279 "	4	2,490	2,614	4	2,618	3,488	8	5,106	8,102
280 " 319 "	2	3,336	3,469	2	3,336	3,469	4	6,672	6,936
320 " 359 "	—	—	—	—	—	—	—	—	—
400 " 439 "	4	10,464	10,844	4	8,940	9,348	8	8,940	9,346
440 " 479 "	4	10,464	10,844	4	10,464	10,844	8	20,928	21,668
480 " 519 "	2	5,000	5,223	—	—	—	2	5,000	5,223
520 " 559 "	—	—	—	2	2,076	3,367	2	2,076	3,367
Totals	466	271,936	290,154	458	261,436	282,222	924	533,372	572,376
Tanker:									
200 to 239 feet	8	5,176	9,771	7	4,403	6,300	15	9,579	18,071
240 " 279 "	239	289,941	471,285	242	292,904	476,392	481	582,845	947,677
280 " 319 "	24	24,792	37,104	24	24,792	37,104	48	49,584	74,208
320 " 359 "	24	46,625	77,466	23	46,274	74,814	47	92,699	152,280
360 " 399 "	15	30,812	50,979	14	28,810	47,578	29	59,622	98,557
400 " 439 "	1	4,409	7,218	1	4,409	7,218	2	8,816	14,436
440 " 479 "	4	17,318	29,290	3	12,696	21,341	7	30,014	50,631
480 " 519 "	23	130,458	225,101	20	112,797	195,806	43	243,255	420,907
520 " 559 "	42	276,609	457,334	36	235,811	387,686	78	512,420	845,020
580 " 599 "	7	52,578	86,774	7	52,578	86,774	14	105,156	177,548
Totals	387	878,718	1,454,322	377	815,474	1,345,013	764	1,694,192	2,799,335
Tug or dredge:									
Under 80 feet	75	2,469	6,247	59	2,156	4,856	134	4,625	11,103
80 to 119 feet	39	4,696	7,384	33	1,984	5,050	72	6,680	12,434
120 " 159 "	13	5,314	6,723	12	4,367	6,015	25	9,681	12,738
160 " 199 "	2	764	1,238	1	382	769	3	1,146	2,007
200 " 239 "	2	910	2,392	2	910	2,392	4	1,820	4,784
320 " 359 "	1	8,624	8,624	—	—	—	1	8,624	8,624
Totals	132	22,777	32,608	107	9,799	19,082	239	32,576	51,690
Other vessels:									
Under 80 feet	12	158	249	10	147	190	22	305	439
80 to 119 feet	5	813	1,005	6	1,100	1,398	11	1,913	2,403
120 " 159 "	11	2,864	4,069	12	2,985	4,490	23	5,849	8,579
160 " 199 "	7	5,287	6,111	6	4,347	5,102	13	9,634	11,213
200 " 239 "	1	1,328	1,528	—	—	—	1	1,328	1,528
280 " 319 "	3	4,890	6,470	3	4,960	6,540	6	9,650	13,010
400 " 439 "	—	—	—	1	3,500	3,500	1	3,500	3,500
520 " 559 "	1	7,644	10,851	1	7,644	10,851	2	15,288	21,702
Totals	40	22,984	30,303	39	24,683	32,071	79	47,667	62,374
Grand totals	4,136	11,997,240	17,779,924	4,033	11,910,249	17,674,249	8,169	23,907,489	35,454,173

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:									
8 to 9 feet	1	138	198	1	138	198	2	276	396
10 " 11 "	38	36,115	51,395	35	30,535	41,906	73	66,650	93,301
12 " 13 "	102	110,427	167,339	44	28,970	48,286	146	139,397	215,625
14 " 15 "	184	272,866	381,624	149	203,732	287,194	333	476,598	668,818
16 " 17 "	367	490,936	764,806	403	541,000	833,711	770	1,031,936	1,598,517
18 " 19 "	573	953,140	1,457,139	566	926,752	1,429,267	1,139	1,879,892	2,886,406
20 " 21 "	556	1,768,891	2,524,470	556	1,778,071	2,531,454	1,112	3,546,962	5,055,924
22 " 23 "	369	1,486,034	2,181,896	375	1,525,742	2,242,681	744	3,011,776	4,424,577
24 " 25 "	469	3,146,022	4,569,301	476	3,187,996	4,632,981	945	6,334,018	9,202,282
26 " 27 "	189	1,405,950	2,026,378	184	1,394,522	2,009,354	373	2,800,472	4,035,732
28 " 29 "	106	476,070	786,300	111	498,376	828,396	217	974,446	1,614,696
30 feet and over	107	632,686	1,039,439	118	667,022	1,093,704	225	1,299,708	2,133,143
Totals	3,061	10,779,275	15,950,285	3,018	10,782,856	15,979,132	6,079	21,562,131	31,929,417
Barge or scow:									
5 feet and under	13	3,796	3,796	4	936	936	17	4,732	4,732
6 to 7 feet	11	2,253	2,253	10	2,166	2,166	21	4,419	4,419
8 " 9 "	13	3,515	3,618	11	2,498	2,569	24	6,013	6,187
10 " 11 "	8	6,917	7,158	5	5,482	5,568	13	12,399	12,726
12 " 13 "	4	3,791	3,974	3	2,100	2,100	7	5,891	6,074
14 " 15 "	1	1,278	1,453	—	—	—	1	1,278	1,453
18 " 19 "	—	—	—	1	2,819	3,390	1	2,819	3,390
Totals	50	21,550	22,252	34	16,001	16,729	84	37,551	38,981
Tug and scow:¹									
5 feet and under	22	5,160	5,611	18	1,458	1,769	40	6,618	7,380
6 to 7 feet	30	6,602	6,996	28	4,645	4,949	58	11,247	11,945
8 " 9 "	32	5,191	5,864	38	5,064	5,711	70	10,255	11,575
10 " 11 "	260	161,134	171,356	236	141,439	151,259	496	302,573	322,615
12 " 13 "	22	14,174	15,399	30	20,997	22,617	52	35,171	38,016
14 " 15 "	88	58,307	62,804	92	60,401	65,381	180	118,708	128,185
16 " 17 "	6	7,568	7,811	4	2,616	3,488	10	10,184	11,299
18 " 19 "	2	3,336	3,469	4	7,215	7,756	6	10,551	11,225
20 " 21 "	4	10,464	10,844	6	15,525	15,905	10	25,989	26,749
24 " 25 "	—	—	—	2	2,076	3,387	2	2,076	3,387
Totals	466	271,936	290,154	458	261,436	282,222	924	533,372	572,376
Tanker:									
10 to 11 feet	1	1,409	2,130	—	—	—	1	1,409	2,130
12 " 13 "	8	9,696	14,048	9	10,404	15,259	17	20,100	29,307
14 " 15 "	54	58,554	82,991	54	58,294	82,293	108	116,848	165,284
16 " 17 "	220	279,960	465,875	222	283,084	471,105	442	563,044	936,980
18 " 19 "	5	9,044	13,359	5	9,071	13,382	10	18,115	26,741
20 " 21 "	23	48,952	88,331	19	38,262	68,201	42	87,214	156,532
22 " 23 "	3	12,560	19,717	3	7,326	10,101	6	19,886	29,818
24 " 25 "	—	—	—	1	6,041	10,400	1	6,041	10,400
26 " 27 "	15	103,967	162,895	15	103,967	162,895	30	207,934	325,790
28 " 29 "	24	135,088	232,745	25	139,580	240,584	49	274,668	473,329
30 feet and over	34	219,488	372,231	24	159,445	270,793	58	378,933	643,024
Totals	387	878,718	1,454,322	377	815,474	1,343,013	764	1,894,192	2,799,335
Tug or dredge:									
5 feet and under	15	302	564	11	191	376	26	493	940
6 to 7 feet	11	891	1,124	7	113	182	18	1,004	1,306
8 " 9 "	54	3,740	6,769	41	2,103	4,893	95	5,843	11,662
10 " 11 "	31	4,545	8,589	20	1,781	4,058	51	6,326	12,647
12 " 13 "	12	2,444	3,356	20	3,335	5,780	32	5,779	9,136
14 " 15 "	5	1,703	2,715	5	1,748	2,926	10	3,451	5,641
16 " 17 "	3	528	867	2	352	578	5	880	1,445
18 " 19 "	1	8,624	8,624	1	176	289	2	8,800	8,913
Totals	132	22,777	32,608	107	9,799	19,082	239	32,576	51,690
Other vessels:									
5 feet and under	12	267	397	11	272	372	23	539	769
6 to 7 feet	4	1,781	2,094	1	342	342	5	2,123	2,436
8 " 9 "	2	1,200	1,200	2	1,035	1,200	4	2,235	2,400
10 " 11 "	9	4,645	5,474	11	4,132	5,383	20	8,777	10,857
12 " 13 "	5	2,530	3,092	4	1,021	1,408	9	3,551	4,500
14 " 15 "	4	1,634	2,156	7	7,097	7,795	11	8,731	9,951
16 " 17 "	2	3,140	4,120	2	3,140	4,720	4	6,280	9,440
24 " 25 "	1	143	319	—	—	—	1	143	319
30 feet and over	1	7,644	10,851	1	7,644	10,851	2	15,288	21,702
Totals	40	22,984	30,303	39	24,683	32,071	79	47,667	62,374
Grand totals	4,136	11,997,240	17,779,924	4,033	11,910,249	17,674,249	8,169	23,907,489	35,454,173

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	640,983	2,759	643,742	1,148,973	189,566	1,338,541	1,769,956	192,327	1,962,283
United States	2,621	—	2,621	2,581	—	2,581	5,202	—	5,202
Totals	643,604	2,759	646,363	1,151,554	189,566	1,341,122	1,795,158	192,327	1,967,485
Ports on the St. Lawrence River:									
Canada	564,965	9,410	574,395	4,130,735	220,855	4,351,590	4,695,720	230,265	4,925,985
United States	3,487	—	3,487	—	—	—	3,487	—	3,487
Totals	568,472	9,410	577,882	4,130,735	220,855	4,351,590	4,699,207	230,265	4,929,472
Ports outside the Gulf of St. Lawrence:									
Canada Atlantic ports	10,002	—	10,002	56,280	53,142	109,422	66,282	53,142	119,424
Canada Pacific ports	—	—	—	—	2,151	2,151	—	2,151	2,151
United States Atlantic ports	26,392	—	26,392	275,055	—	275,055	301,447	—	301,447
United States Hudson River ports	2,519	—	2,519	72,234	—	72,234	74,753	—	74,753
United Kingdom	5,304	7,372	12,676	24,056	73,033	97,089	29,360	80,405	109,765
West Indies Federation	8,100	—	8,100	26,873	765	27,638	34,973	765	35,738
Other British Commonwealth	10,247	—	10,247	153	3,097	3,250	10,400	3,097	13,497
Belgium	—	2,491	2,491	3,195	175,539	178,734	3,195	178,030	181,225
Denmark	—	7	7	2	4,619	4,621	2	4,628	4,628
Finland	—	—	—	19,773	4,925	24,698	19,773	4,925	24,698
France	—	—	—	4,214	27,360	31,574	4,214	27,360	31,574
Germany	227	1,910	2,137	533	63,444	63,977	760	65,354	66,114
Greece	—	—	—	31,305	259	31,564	31,305	259	31,564
Italy	286	59	345	4,440	22,021	26,461	4,726	22,080	26,806
Netherlands	15	1,242	1,257	11,366	57,686	69,052	11,381	58,928	70,309
Norway	—	—	—	3,920	9,272	13,192	3,920	9,272	13,192
Portugal	—	—	—	165	2,592	2,757	185	2,592	2,757
Sweden	—	—	—	22,388	10,189	32,577	22,388	10,189	32,577
Other Europe	17,628	299	17,927	87,050	20,987	108,037	84,678	21,286	105,964
Other Central America and Caribbean	22,418	—	22,418	63,443	7,403	70,846	85,861	7,403	93,264
South America	36,406	—	36,406	63,274	3,916	67,190	99,680	3,916	103,596
Middle East	—	—	—	—	1,170	1,170	—	1,170	1,170
Other Asia	—	—	—	—	14,677	14,677	—	14,677	14,677
Other Africa	5,186	—	5,186	—	687	687	5,186	667	5,873
Australasia	—	—	—	—	2,174	2,174	—	2,174	2,174
Totals	144,730	13,380	158,110	749,719	561,108	1,310,827	894,449	574,488	1,468,937
In transit	—	—	—	—	—	—	13,829	—	13,829
Grand totals	1,356,806	25,549	1,382,355	6,032,008	971,531	7,003,539	7,462,643	997,080	8,399,723

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	2,150,660	65	2,150,725	8,382,060	—	8,382,060	10,532,720	65	10,532,785
United States	14,762	—	14,762	334,410	—	334,410	349,172	—	349,172
Totals	2,165,422	65	2,165,487	8,716,470	—	8,716,470	10,881,892	65	10,881,957
Ports on the St. Lawrence river:									
Canada	3,157,806	603	3,158,409	1,478,120	18,824	1,496,944	4,635,926	19,427	4,655,353
United States	—	—	—	32,056	—	32,056	32,056	—	32,056
Totals	3,157,806	603	3,158,409	1,510,176	18,824	1,529,000	4,667,982	19,427	4,687,409
Ports outside the Gulf of St. Lawrence:									
Canada Atlantic ports	164,075	1,103	165,178	24,480	5	24,485	188,555	1,108	189,663
United States Atlantic ports	—	5,646	5,646	250,435	—	250,435	250,435	5,646	256,081
United States Hudson River ports	—	—	—	116,201	—	116,201	116,201	—	116,201
United Kingdom	396,163	73,356	469,519	308,815	153,194	462,009	704,978	226,550	931,528
West Indies Federation	8,230	750	8,980	—	1,026	1,026	8,230	1,776	10,006
Other British Commonwealth	1,013	1,096	2,109	4,064	49,537	53,601	5,077	50,633	55,710
Belgium	40,995	32,803	73,798	242,634	36,903	279,537	283,629	69,706	353,335
Denmark	—	48	48	142,508	7,373	149,881	142,508	7,421	149,929
Finland	—	126	126	12,904	14,542	27,446	12,904	14,668	27,572
France	299	9,011	9,310	31,807	26,677	58,484	32,106	35,688	67,794
Germany	59,298	7,872	67,170	468,096	38,968	507,064	527,394	46,840	574,234
Greece	—	—	—	26,124	2,489	28,613	26,124	2,489	28,613
Italy	16,823	8,703	25,526	169,751	34,643	204,394	186,574	43,346	229,920
Netherlands	27,221	25,584	52,805	1,204,506	135,820	1,340,326	1,231,727	161,404	1,393,131
Norway	2,727	9,387	12,114	78,142	3,742	81,884	80,669	13,129	93,998
Portugal	—	84	84	5	1,466	1,471	5	1,550	1,555
Sweden	—	827	827	61,959	26,607	88,566	61,959	27,434	89,393
Other Europe	57,521	1,304	58,825	111,641	28,063	139,704	169,162	29,367	198,529
Panama	—	—	—	6,460	—	6,460	6,460	—	6,460
Other Central America and Caribbean	3,728	344	4,072	34,910	1,602	36,512	38,638	1,946	40,584
South America	26,871	20,238	47,109	140,029	39,950	179,979	166,900	60,188	227,088
Middle East	1,956	—	1,956	100,421	49,912	150,333	102,377	49,912	152,289
Other Asia	—	—	—	71,168	31,077	102,245	71,168	34,680	105,848
Other Africa	—	3,603	3,603	11,662	3,769	15,431	11,662	3,769	15,431
Totals	806,920	201,885	1,008,805	3,618,722	674,461	4,293,183	4,425,642	876,346	5,301,988
In transit	—	—	—	—	—	—	9,860	—	9,860
Grand totals	6,130,148	202,553	6,332,701	13,845,368	693,285	14,538,653	19,985,176	895,838	20,681,014

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

Loaded at	Registry of vessel	Cargo tons		
		Bulk	General	Total
Ports on Lake Ontario and Welland canal	Canada	1,555,270	184,613	1,739,883
	United States	225,320	7,399	232,719
	United Kingdom	1,832	214	2,046
	Bermuda	11,831	—	11,831
	Sweden	905	101	1,006
	Totals	1,795,158	192,327	1,987,485
Ports on the St. Lawrence river	Canada	3,758,415	221,691	3,980,106
	United States	284,904	457	285,361
	United Kingdom	417,630	—	417,630
	Bermuda	96,402	—	96,402
	Greece	42,913	—	42,913
	Italy	—	2,422	2,422
	Netherlands	59,900	—	59,900
	Norway	34,564	3,597	38,161
	Sweden	—	2,084	2,084
	Other Europe	—	14	14
	Other Central America and Caribbean	4,479	—	4,479
	Totals	4,699,207	230,265	4,929,472
Ports outside the Gulf of St. Lawrence	Canada	45,341	10,963	56,304
	United States	330,576	8,484	337,060
	United Kingdom	170,049	86,054	256,103
	Denmark	—	217	217
	Finland	56	16,497	16,553
	France	878	11,811	12,689
	Germany	48,602	240,757	289,359
	Greece	66,624	3,205	69,829
	Italy	30,715	5,516	36,231
	Netherlands	772	46,399	47,171
	Norway	104,298	78,831	183,129
	Sweden	36,911	38,208	75,119
	Other Europe	—	3,577	3,577
	Panama	658	6,406	7,064
	Middle East	417	9,097	9,514
	Other Asia	—	6,550	6,550
	Liberia	46,136	—	46,136
	Other Africa	12,416	1,916	14,332
	Totals	894,449	574,488	1,468,937
	In transit	13,829	—	13,829
Grand totals	7,402,643	997,080	8,399,723	

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

Unloaded at	Registry of vessel	Cargo tons			
		Bulk	General	Total	
Ports on Lake Ontario and Welland canal	Canada	9,951,852	65	9,951,917	
	United States	805,997	—	805,997	
	United Kingdom	32,391	—	32,391	
	Bermuda	75,821	—	75,821	
	Other British Commonwealth	7,399	—	7,399	
	Other Central America and Caribbean	8,432	—	8,432	
Totals	10,881,692	65	10,881,957		
Ports on the St. Lawrence river	Canada	4,152,792	14,117	4,166,909	
	United States	103,849	4,584	108,433	
	United Kingdom	309,008	52	309,060	
	Bermuda	69,487	—	69,487	
	Germany	3,242	37	3,279	
	Greece	14,334	—	14,334	
	Norway	3,095	372	3,467	
	Other Europe	4,530	265	4,795	
	Other Central America and Caribbean	7,645	—	7,645	
	Totals	4,667,962	19,427	4,687,409	
	Ports outside the Gulf of St. Lawrence	Canada	60,100	12,640	72,740
		United States	410,813	63,585	474,398
United Kingdom		947,356	136,291	1,083,647	
Other British Commonwealth		—	28,643	28,643	
Denmark		51,149	7,992	59,141	
Finland		4,699	19,914	24,613	
France		101,846	5,145	108,991	
Germany		370,746	207,208	577,954	
Greece		427,317	27,216	454,533	
Italy		98,179	12,851	111,030	
Netherlands		126,158	80,975	207,133	
Norway		780,499	95,682	876,181	
Sweden		203,604	90,691	294,295	
Other Europe		113,047	14,816	127,863	
Panama		55,678	3,088	58,766	
South America		—	5,593	5,593	
Middle East		17,023	33,359	50,382	
Other Asia		15,776	13,552	29,328	
Liberia		641,652	17,105	658,757	
Totals		4,425,642	876,346	5,301,988	
In transit	9,660	—	9,660		
Grand totals	19,985,176	895,838	20,881,014		

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

Kind of vessel and gross tonnage	Upbound							Downbound						
	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	33	37	45,810	6,103	51,913	1,573.1	12	24	36	13,703	4,187	17,870	744.6
1,000 to 1,999	246	341	587	354,502	150,697	505,199	1,481.5	12	561	573	1,099,523	160,719	1,260,242	2,246.4
2,000 " 2,999	211	489	700	516,172	469,661	985,833	2,016.0	41	615	656	1,535,370	209,601	1,744,971	2,837.3
3,000 " 3,999	104	147	251	336,273	156,123	492,396	3,349.6	21	226	247	948,818	61,298	1,010,116	4,469.5
4,000 " 4,999	205	114	319	355,973	90,557	446,530	3,916.9	22	300	322	1,829,386	104,276	1,933,662	6,445.5
5,000 " 5,999	54	83	137	307,718	38,857	346,575	4,173.2	8	130	138	688,139	78,464	766,603	5,896.9
6,000 " 6,999	88	106	194	548,872	32,465	581,337	5,484.3	13	186	199	1,212,561	102,302	1,314,863	7,069.1
7,000 " 7,999	153	83	236	542,417	19,339	561,756	6,768.1	8	228	236	1,906,874	101,545	2,008,419	8,808.6
8,000 " 8,999	61	31	92	296,677	7,517	304,194	9,812.7	12	81	93	851,894	32,494	884,388	10,918.4
9,000 " 9,999	45	48	93	537,198	11,887	549,085	11,439.3	8	85	93	878,175	23,474	901,649	10,607.6
10,000 " 10,999	23	22	45	115,172	9,689	124,861	5,875.5	3	45	48	506,275	8,982	515,257	11,450.1
11,000 " 11,999	76	14	90	225,485	-	225,485	16,104.6	-	95	95	1,611,302	-	1,611,302	18,961.0
12,000 " 12,999	77	23	100	419,146	-	419,146	18,223.7	1	100	101	1,864,897	-	1,864,897	18,649.0
13,000 " 13,999	27	15	42	291,030	-	291,030	19,402.0	1	42	43	765,265	-	765,265	18,220.6
14,000 " 14,999	-	13	13	197,890	-	197,890	15,222.3	-	12	12	185,466	-	185,466	15,455.5
15,000 " 15,999	34	15	49	350,502	-	350,502	23,366.8	2	48	50	1,056,620	-	1,056,620	22,012.9
18,000 " 18,999	24	2	26	49,231	-	49,231	24,615.5	-	26	26	591,395	-	591,395	22,748.0
17,000 and over	17	33	50	815,510	-	815,510	24,712.4	12	38	50	940,870	-	940,870	24,759.7
Totals	1,449	1,612	3,061	6,305,558	992,695	7,298,253	4,527.4	176	2,842	3,018	18,486,533	887,322	19,373,855	6,817.0
Barge or scow:														
Under 1,000 gross tons..	38	5	43	1,356	-	1,356	271.2	27	2	29	2,425	-	2,425	1,212.5
1,000 to 1,999	2	5	7	11,075	-	11,075	2,215.0	-	4	4	8,944	-	8,944	2,238.0
2,000 " 3,999	-	-	-	-	-	-	-	-	1	1	6,068	-	6,068	6,068.0
Totals	40	10	50	12,431	-	12,431	1,243.1	27	7	34	17,435	-	17,435	2,490.7
Tug and scow:¹														
Under 1,000 gross tons..	94	12	106	2,663	1,785	4,448	387.3	100	6	108	4,800	-	4,800	600.0
1,000 to 1,999	136	214	352	248,721	-	248,721	1,162.2	32	306	338	359,159	-	359,159	1,174.7
3,000 " 3,999	-	2	2	4,250	-	4,250	2,125.0	4	-	4	-	-	-	-
4,000 " 4,999	-	-	-	-	-	-	-	-	2	2	6,786	-	6,786	3,393.0
5,000 " 5,999	2	4	6	14,615	-	14,615	3,653.7	4	2	6	-	5,059	5,059	2,529.5
Totals	234	232	466	270,449	1,785	272,234	1,173.4	140	318	458	370,745	5,059	375,804	1,181.8
Tanker:														
Under 1,000 gross tons..	4	-	4	-	-	-	-	-	4	4	4,444	-	4,444	1,111.0
1,000 to 1,999	64	93	157	239,033	2,600	241,633	2,598.2	71	86	157	219,754	-	219,754	2,555.3
2,000 " 2,999	44	67	111	224,505	-	224,505	3,350.8	54	59	113	189,293	-	189,293	3,208.2
3,000 " 3,999	12	26	38	113,022	-	113,022	4,347.0	16	20	36	82,795	-	82,795	4,139.7
5,000 " 5,999	1	-	1	-	-	-	-	-	1	1	8,334	-	8,334	8,334.0
7,000 " 7,999	-	4	4	25,633	-	25,633	6,408.2	1	2	3	18,816	-	18,816	9,408.0
8,000 " 8,999	4	1	5	387	-	387	387.0	-	5	5	50,608	-	50,608	10,121.8
9,000 " 9,999	6	2	10	14,610	-	14,610	7,305.0	1	7	8	60,448	-	60,448	11,492.6
10,000 " 10,999	25	17	42	166,812	-	166,812	9,812.5	14	25	39	294,150	-	294,150	11,766.0
11,000 " 11,999	7	-	7	-	-	-	-	-	5	5	63,300	-	63,300	12,660.0
12,000 " 12,999	4	2	6	27,315	-	27,315	13,657.5	-	4	4	68,949	-	68,949	17,237.2
13,000 " 13,999	2	-	2	-	-	-	-	-	2	2	29,572	-	29,572	14,786.0
Totals	175	212	387	811,317	2,600	813,917	3,839.2	157	220	377	1,110,463	-	1,110,463	5,047.5
Other vessels:														
Under 1,000 gross tons..	163	-	163	-	-	-	-	138	-	138	-	-	-	-
1,000 to 1,999	5	-	5	-	-	-	-	4	-	4	-	-	-	-
2,000 " 2,999	2	-	2	-	-	-	-	2	-	2	-	-	-	-
3,000 " 3,999	-	-	-	-	-	-	-	1	-	1	-	-	-	-
8,000 " 8,999	1	-	1	-	-	-	-	-	-	-	-	-	-	-
10,000 " 10,999	-	1	1	2,888	-	2,888	2,888.0	-	1	1	-	3,457	3,457	3,457.0
Totals	171	1	172	2,888	-	2,888	2,888.0	145	1	146	-	3,457	3,457	3,457.0
Grand totals	2,069	2,067	4,136	7,402,643	997,080	8,399,723	4,063.7	645	3,388	4,033	19,985,176	895,638	20,881,014	6,163.2

¹ Assessed as one unit.

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					
	Products of agriculture:						
1	Wheat	11,690	—	—	—	—	—
2	Rice	—	—	—	—	—	—
3	Flour	—	—	—	—	—	2
4	Products of agriculture, n.o.s.	—	905	—	—	—	70
5	Totals	11,690	905	—	—	—	72
	Animals and products:						
6	Sea food	—	5,541	—	—	—	—
7	Fish and sea animal oil	—	32,200	—	—	—	—
8	Animals and products, n.o.s.	—	392	—	—	—	278
9	Totals	—	38,133	—	—	—	278
	Products of mines:						
10	Bituminous coal	85,515	15,299	2,621	—	—	—
11	Coke	569	1,239	—	1,065	—	—
12	Iron ore	—	4,204,465	—	—	—	49
13	Aluminum ore and concentrates	—	—	—	—	—	—
14	Clay and bentonite	—	—	—	—	—	18,396
15	Gravel and sand	34,469	19,992	—	—	—	—
16	Stone and rock, crushed, broken	—	849,666	—	—	—	—
17	Stone, rough	—	18,710	—	—	—	—
18	Stone, finished	—	45,595	—	—	—	—
19	Sulphur	—	—	5,441	22,570	—	—
20	Products of mines, n.o.s.	—	32,067	—	11,913	—	31
21	Totals	120,553	5,187,033	8,062	35,548	—	18,476
	Products of forests:						
22	Pulpwood	170,988	46,311	—	—	—	—
23	Veneer and plywood	—	—	—	—	—	—
24	Products of forests, n.o.s.	—	2,600	—	—	—	—
25	Totals	170,988	48,911	—	—	—	—
	Manufactures and miscellaneous:						
26	Gasoline	230,852	—	—	5,840	—	—
27	Fuel, road and petroleum residual oils	333,843	—	3,487	85,482	—	—
28	Lubricating oils and greases	67,401	—	—	72,602	—	—
29	Petroleum products, refined	8,683	—	1,860	6,304	—	12
30	Vegetable and nut oils	—	—	—	2,461	—	5,545
31	Rubber, natural and synthetic	—	—	—	—	—	—
32	Chemicals	867	11,700	12,158	21,855	12	1,771
33	Fertilizers	—	—	9,452	—	—	—
34	Tar, pitch and creosote	—	—	—	17,046	—	—
35	Aluminum: bar, ingot, pig and slab	—	7,379	—	—	—	—
36	Alloys for steel manufacture	—	—	—	—	—	—
37	Metal and alloys	—	30	—	—	2	1,630
38	Iron, pig	3,361	44,617	—	9,645	—	—
39	Iron and steel: bar, rod and slab	—	—	—	—	—	1,729
40	Iron and steel, n.o.s.	—	—	—	—	351	2,845
41	Iron and steel nails and wire	—	—	—	—	—	1,143
42	Manufactured iron and steel	6,664	249	—	—	1,953	3,849
43	Iron and steel pipe and fittings	—	—	—	—	—	926
44	Machinery and machines	—	—	—	—	—	1,254
45	Machinery parts	—	—	—	—	—	1,627
46	Rails and railway track materials	3,338	—	—	—	—	—
47	Automobiles, passenger	—	4	—	—	1,098	8,835
48	Vehicle parts, n.o.s.	—	—	—	—	—	1,838
49	Cement	18,347	—	—	2,581	—	—
50	Woodpulp	7,683	5,448	—	—	—	—
51	Newsprint paper	—	445,478	—	—	—	—
52	Printing paper	—	—	—	9,718	—	—
53	Building paper	—	—	—	7,728	—	—
54	Glass	—	—	—	—	—	5,256
55	Binder twine	—	—	—	—	—	400
56	Liquors, alcoholic	—	—	—	—	—	20,232
57	Wine	—	—	—	—	—	320
58	Syrup and molasses, refined	—	—	—	30,490	—	—
59	Molasses, residual	—	—	—	2,135	—	—
60	Sugar	27	49	—	32,138	—	—
61	Food products	—	—	—	1,400	—	2,238
62	Manufactures and miscellaneous, n.o.s.	10,070	8,773	—	6,897	9,260	16,813
63	Totals	691,136	523,727	26,957	314,322	12,676	78,263
64	Domestic package freight	237,238	—	—	—	—	—
65	In transit freight	—	—	—	—	—	—
66	Grand totals	1,231,605	5,798,709	35,019	349,870	12,676	97,089

SAULT STE. MARIE CANAL

TABLE 28. Location and Description

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

TABLE 29. Historical Summary, 1951-60

Registry of vessel	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Vessel transits										
Upbound:										
Canada	1,729	1,954	2,054	1,673	1,766	1,913	1,607	1,295	1,111	1,331
United States	501	524	677	601	765	700	138	105	233	113
United Kingdom .....	..	..	..	..	..	1	..	6	13	40
Other foreign	6	21	36	11	8	9	4	41	15	46
Totals	2,236	2,499	2,767	2,285	2,539	2,623	1,749	1,447	1,372	1,530
Downbound:										
Canada	1,522	1,661	1,927	1,457	1,587	1,655	1,186	1,033	914	1,055
United States	514	520	417	598	774	712	720	918	2,126	2,232
United Kingdom .....	..	..	..	..	..	1	..	4	11	21
Other foreign	6	21	36	9	8	9	4	40	5	17
Totals	2,042	2,202	2,380	2,064	2,369	2,377	1,910	1,995	3,056	3,325
Grand totals	4,278	4,701	5,147	4,349	4,908	5,000	3,659	3,442	4,428	4,855
Registered net tons										
Upbound:										
Canada	2,074,234	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
United States	354,405	410,830	742,064	262,668	392,277	372,726	332,883	109,314	132,294	116,627
United Kingdom .....	..	..	..	..	..	727	..	3,756	10,857	90,719
Other foreign	4,721	17,529	31,112	8,086	6,612	8,655	2,934	31,963	17,805	111,846
Totals	2,433,360	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
Downbound:										
Canada	1,463,384	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
United States	269,472	288,986	206,320	178,867	298,362	308,720	320,512	281,689	321,962	314,074
United Kingdom .....	..	..	..	..	..	727	..	2,107	8,487	21,222
Other foreign	4,721	17,529	33,646	5,814	6,582	8,685	2,934	31,001	4,040	20,059
Totals	1,737,577	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
Grand totals	4,170,937	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
Cargo tons										
Upbound:										
Canada .....	..	..	..	..	641,701	683,604	571,437	327,050	383,755	600,864
United States .....	..	..	..	..	68,210	67,797	52,642	12,537	47,507	114,753
United Kingdom .....	..	..	..	..	..	..	..	..	185	6,794
Other foreign .....	..	..	..	..	4,043	6,904	2,571	7,582	6,249	5,245
Totals	1,010,371	1,113,893	1,009,664	845,990	713,954	758,305	626,650	347,169	437,696	727,656
Downbound:										
Canada .....	..	..	..	..	1,461,155	2,204,837	1,151,155	821,218	770,182	963,511
United States .....	..	..	..	..	21,408	17,616	2,485	6,682	15,113	8,533
United Kingdom .....	..	..	..	..	..	968	..	4,695	2,150	14,389
Other foreign .....	..	..	..	..	4,558	7,552	4,410	48,897	7,553	6,533
Totals	1,795,021	2,181,530	2,379,745	1,761,978	1,487,121	2,230,973	1,158,050	881,492	794,998	992,966
Grand totals	2,805,392	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
Season of navigation										
First vessel passage	April 30	April 2	March 29	April 10	April 11	April 5	April 5	April 8	April 13	April 4
Last vessel passage	Dec. 13	Dec. 13	Dec. 15	Dec. 11	Dec. 12	Dec. 12	Dec. 12	Dec. 11	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	505	201	706	1,592,965	2,385,484	330,450	—
Passenger-cargo	85	56	141	196,418	296,338	6,034	14,106
Cargo-passenger	19	5	24	25,711	49,177	2,870	—
Scow, barge, etc.	184	19	203	145,973	150,649	9,544	—
Tug and scow ¹	6	—	6	1,712	1,712	—	—
Tanker	11	108	119	151,107	243,173	378,758	—
Tug or dredge	311	—	311	19,690	39,033	—	—
Naval or Government	14	—	14	392	805	—	3
All other types	6	—	6	288	420	—	74
Totals	1,141	389	1,530	2,134,256	3,166,791	727,656	14,183
Downbound:							
Cargo	51	333	384	629,484	966,655	758,394	98
Passenger-cargo	2,175	62	2,237	342,006	486,073	103,916	157,625
Cargo-passenger	20	2	22	16,419	32,534	1,335	19
Scow, barge etc.	59	130	189	93,551	95,391	89,486	—
Tug and scow ¹	4	—	4	800	1,118	—	—
Tanker	150	16	166	290,896	442,835	39,835	—
Tug or dredge	295	—	295	15,972	32,293	—	—
Naval or Government	12	—	12	1,099	2,510	—	7
All other types	16	—	16	768	1,120	—	—
Totals	2,782	543	3,325	1,390,995	2,060,529	992,966	157,749
Grand totals	3,923	932	4,855	3,525,251	5,227,320	1,720,622	171,932

¹ Assessed as one unit.

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	973	358	1,331	1,815,064	2,652,313	600,864	4,672
United States	91	22	113	116,627	170,200	114,753	8,188
United Kingdom	36	3	39	86,825	151,849	6,794	1,323
Other British Commonwealth	1	—	1	3,894	5,141	—	—
Denmark	2	—	2	1,140	2,223	—	—
France	1	—	1	4,380	7,303	—	—
Germany	15	4	19	27,360	45,987	2,821	—
Greece	3	—	3	12,015	18,988	—	—
Italy	2	—	2	8,490	14,139	—	—
Norway	1	1	2	3,089	5,490	2,375	—
Sweden	5	1	6	16,533	28,598	49	—
Other Europe	1	—	1	2,538	5,049	—	—
Panama	1	—	1	4,245	7,132	—	—
Other Central American and Caribbean	1	—	1	1,649	3,041	—	—
South America	1	—	1	4,489	7,261	—	—
Middle East	1	—	1	2,788	5,013	—	—
Other Asia	2	—	2	8,357	13,072	—	—
Liberia	4	—	4	14,773	23,992	—	—
Totals	1,141	389	1,530	2,134,256	3,166,791	727,656	14,183
Downbound:							
Canada	529	526	1,055	1,035,640	1,548,837	963,511	4,767
United States	2,228	4	2,232	314,074	438,216	8,533	151,755
United Kingdom	15	5	20	19,573	35,448	14,156	1,227
Other British Commonwealth	—	1	1	1,649	3,041	233	—
Denmark	—	2	2	1,140	2,223	2,884	—
Germany	8	4	12	13,508	22,712	1,338	—
Norway	—	1	1	902	1,699	2,311	—
Sweden	1	—	1	1,303	2,547	—	—
Other Asia	1	—	1	3,206	5,806	—	—
Totals	2,782	543	3,325	1,390,995	2,060,529	992,966	157,749
Grand totals	3,923	932	4,855	3,525,251	5,227,320	1,720,622	171,932

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	181	—	181	9,650	10,754	—	4,060
80 to 119 feet	198	2	200	8,031	21,997	270	—
120 " 159 "	179	19	198	97,877	105,873	9,544	6
160 " 199 "	17	1	18	13,431	26,570	2,375	1,323
200 " 239 "	7	—	7	4,000	10,588	—	—
240 " 279 "	228	244	472	621,832	979,428	463,210	—
280 " 319 "	1	2	3	4,898	8,864	3,690	—
320 " 359 "	117	60	177	437,806	627,047	20,880	8,794
360 " 399 "	53	25	78	196,770	285,958	80,430	—
400 " 439 "	55	5	60	188,715	278,019	47,697	—
440 " 479 "	49	29	78	284,964	445,716	88,287	—
480 " 519 "	51	—	51	230,136	320,999	—	—
520 " 559 "	5	2	7	36,146	48,978	11,273	—
Totals	1,141	389	1,530	2,134,256	3,166,791	727,656	14,183
Downbound:							
Under 80 feet	2,282	—	2,282	142,457	180,952	—	147,958
80 to 119 feet	198	1	199	7,917	21,616	113	—
120 " 159 "	56	129	185	95,957	101,673	84,686	19
160 " 199 "	16	1	17	12,859	24,897	2,311	1,227
200 " 239 "	6	2	8	4,572	12,261	2,884	—
240 " 279 "	141	277	418	532,571	844,735	627,320	—
280 " 319 "	4	1	5	8,049	12,019	2,193	—
320 " 359 "	27	93	120	293,606	433,205	204,837	8,545
360 " 399 "	15	20	35	85,104	127,530	16,461	—
400 " 439 "	20	—	20	66,510	95,574	—	—
440 " 479 "	9	19	28	107,230	158,251	52,161	—
480 " 519 "	7	—	7	31,138	43,621	—	—
520 " 559 "	1	—	1	3,025	4,195	—	—
Totals	2,782	543	3,325	1,390,995	2,060,529	992,966	157,749
Grand totals	3,923	932	4,855	3,525,251	5,227,320	1,720,622	171,932

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	1,295	1,773,189	2,594,646	36	41,875	57,667	1,331	1,815,064	2,652,313
United States	12	33,791	47,323	101	82,836	122,877	113	116,627	170,200
United Kingdom	28	54,512	94,225	5	14,753	26,375	33	69,265	120,600
Bermuda	1	3,894	5,141	—	—	—	1	3,894	5,141
France	—	—	—	1	4,380	7,303	1	4,380	7,303
Germany	12	17,327	29,493	2	2,020	3,799	14	19,347	33,292
Greece	1	3,122	5,204	—	—	—	1	3,122	5,204
Norway	1	2,187	3,791	—	—	—	1	2,187	3,791
Other Europe	1	2,538	5,049	—	—	—	1	2,538	5,049
Other Central America and Caribbean	—	—	—	1	1,649	3,041	1	1,649	3,041
Middle East	—	—	—	1	2,788	5,013	1	2,788	5,013
Liberia	—	—	—	1	1,598	2,967	1	1,598	2,967
Totals	1,351	1,890,560	2,784,872	148	151,899	229,042	1,499	2,042,459	3,013,914
Originating at ports outside the Gulf of St. Lawrence:									
Registry:									
United Kingdom	6	17,560	31,249	—	—	—	6	17,560	31,249
Denmark	—	—	—	2	1,140	2,223	2	1,140	2,223
Germany	2	4,441	7,132	3	3,572	5,563	5	8,013	12,695
Greece	1	3,122	5,205	1	5,771	8,579	2	8,893	13,784
Italy	1	4,198	6,972	1	4,292	7,167	2	8,490	14,139
Norway	—	—	—	1	902	1,699	1	902	1,699
Sweden	3	6,415	11,365	3	10,118	17,233	6	16,533	28,598
Panama	—	—	—	1	4,245	7,132	1	4,245	7,132
South America	1	4,489	7,261	—	—	—	1	4,489	7,261
Other Asia	—	—	—	2	8,357	13,072	2	8,357	13,072
Liberia	1	4,353	7,165	2	8,822	13,860	3	13,175	21,025
Totals	15	44,578	76,349	16	47,219	76,528	31	91,797	152,877
Grand totals	1,366	1,935,138	2,861,221	164	199,118	305,570	1,530	2,134,256	3,166,791

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

Port of destination and country of Registry	Originating in						Total		
	Canada			United States			Number of vessels	Registered net tons	Gross tons
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons			
Destined to ports between Sault Ste. Marie and the Gulf of St. Lawrence:									
Registry:									
Canada	1,025	1,020,429	1,529,102	29	13,470	17,281	1,054	1,033,899	1,546,383
United States	23	18,991	25,457	2,209	295,083	412,759	2,232	314,074	438,216
United Kingdom	15	11,385	21,525	—	—	—	15	11,385	21,525
Other British Commonwealth	1	1,649	3,041	—	—	—	1	1,649	3,041
Germany	3	3,162	5,109	4	4,906	8,100	7	8,068	13,209
Sweden	1	1,303	2,547	—	—	—	1	1,303	2,547
Other Asia	—	—	—	1	3,206	5,806	1	3,206	5,806
Totals	1,068	1,056,919	1,586,781	2,243	316,665	443,946	3,311	1,373,584	2,030,727
Destined to ports outside the Gulf of St. Lawrence:									
Registry:									
Canada	1	1,741	2,454	—	—	—	1	1,741	2,454
United Kingdom	5	8,188	13,923	—	—	—	5	8,188	13,923
Denmark	—	—	—	2	1,140	2,223	2	1,140	2,223
Germany	2	2,363	4,325	3	3,077	5,178	5	5,440	9,503
Norway	1	902	1,699	—	—	—	1	902	1,699
Totals	9	13,194	22,401	5	4,217	7,401	14	17,411	29,802
Grand totals	1,077	1,070,113	1,609,182	2,248	320,882	451,347	3,325	1,390,995	2,060,529

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	631	1,339,997	2,004,851	489	327,302	494,875	211	147,765	152,587	1,331	1,815,064	2,652,313
United States	33	85,138	125,865	74	31,201	43,915	6	288	420	113	116,627	170,200
United Kingdom	29	61,927	105,627	10	24,898	46,222	—	—	—	39	86,825	151,849
Bermuda	1	3,894	5,141	—	—	—	—	—	—	1	3,894	5,141
Denmark	—	—	—	2	1,140	2,223	—	—	—	2	1,140	2,223
France	1	4,380	7,303	—	—	—	—	—	—	1	4,380	7,303
Germany	—	—	—	19	27,360	45,987	—	—	—	19	27,360	45,987
Greece	3	12,015	18,988	—	—	—	—	—	—	3	12,015	18,988
Italy	2	8,490	14,139	—	—	—	—	—	—	2	8,490	14,139
Norway	—	—	—	2	3,089	5,490	—	—	—	2	3,089	5,490
Sweden	1	2,529	4,295	5	14,004	24,303	—	—	—	6	16,533	28,598
Other Europe	—	—	—	1	2,538	5,049	—	—	—	1	2,538	5,049
Panama	1	4,245	7,132	—	—	—	—	—	—	1	4,245	7,132
Other Central America	—	—	—	1	1,649	3,041	—	—	—	1	1,649	3,041
South America	1	4,489	7,261	—	—	—	—	—	—	1	4,489	7,261
Middle East	—	—	—	1	2,788	5,013	—	—	—	1	2,788	5,013
Other Asia	2	8,357	13,072	—	—	—	—	—	—	2	8,357	13,072
Liberia	3	10,286	17,162	1	4,487	6,830	—	—	—	4	14,773	23,992
Totals	708	1,545,747	2,330,836	605	440,456	682,948	217	148,053	153,007	1,530	2,134,256	3,166,791
Downbound:												
Canada	411	693,384	1,065,387	451	247,905	386,941	193	94,351	96,509	1,055	1,035,640	1,548,837
United States	61	164,324	244,564	2,164	149,452	193,222	7	298	430	2,232	314,074	438,216
United Kingdom	15	11,385	21,525	5	8,188	13,923	—	—	—	20	19,573	35,448
British Commonwealth	—	—	—	1	1,649	3,041	—	—	—	1	1,649	3,041
Denmark	—	—	—	2	1,140	2,223	—	—	—	2	1,140	2,223
Germany	—	—	—	12	13,508	22,712	—	—	—	12	13,508	22,712
Norway	—	—	—	1	902	1,699	—	—	—	1	902	1,699
Sweden	—	—	—	1	1,303	2,547	—	—	—	1	1,303	2,547
Other Asia	1	3,206	5,806	—	—	—	—	—	—	1	3,206	5,806
Totals	488	872,299	1,337,282	2,637	424,047	626,308	200	94,649	96,939	3,325	1,390,995	2,060,529
Grand totals	1,196	2,418,046	3,668,118	3,242	864,503	1,309,256	417	242,702	249,946	4,855	3,525,251	5,227,320

* Includes Caribbean.

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	51	4,022	4,707	2,143	136,718	174,272	2,194	140,740	178,979
80 to 119 feet	2	164	196	3	246	294	5	410	490
120 " 159 "	4	496	1,348	6	744	2,022	10	1,240	3,370
160 " 199 "	18	13,431	26,570	17	12,859	24,897	35	26,290	51,467
200 " 239 "	7	4,000	10,588	7	4,000	10,588	14	8,000	21,176
240 " 279 "	361	489,781	765,622	304	396,182	624,342	665	885,963	1,389,964
280 " 319 "	2	3,540	5,080	4	6,691	10,235	6	10,231	15,315
320 " 359 "	166	407,213	593,159	108	264,748	394,228	274	671,961	987,387
360 " 399 "	70	171,163	258,653	22	48,131	77,411	92	219,294	336,064
400 " 439 "	55	173,857	256,077	2	6,126	8,645	57	179,983	264,722
440 " 479 "	77	281,145	441,022	20	80,328	114,707	97	361,471	555,729
480 " 519 "	51	230,136	320,999	7	31,138	43,621	58	261,274	364,620
520 " 559 "	7	36,146	46,978	—	—	—	7	36,146	46,978
Totals	871	1,815,094	2,730,999	2,643	987,909	1,485,262	3,514	2,803,003	4,216,261
Barge or scow:									
Under 80 feet	5	749	799	3	96	246	8	845	1,045
80 to 119 feet	30	900	2,459	31	940	2,519	61	1,840	4,978
120 " 159 "	150	87,145	87,145	154	89,520	89,520	304	176,665	176,665
320 " 359 "	9	26,620	27,860	1	2,995	3,106	10	29,615	30,966
360 " 399 "	7	22,778	23,478	—	—	—	7	22,778	23,478
400 " 439 "	1	3,962	4,214	—	—	—	1	3,962	4,214
440 " 479 "	1	3,819	4,694	—	—	—	1	3,819	4,694
Totals	203	145,973	150,649	189	93,551	95,391	392	239,524	246,040
Tug and scow:¹									
Under 80 feet	—	—	—	2	33	48	2	33	48
120 to 159 feet	8	1,712	1,712	2	767	1,070	8	2,479	2,782
Totals	6	1,712	1,712	4	800	1,118	10	2,512	2,830
Tanker:									
240 to 279 feet	111	132,051	213,806	114	136,389	220,393	225	268,440	434,199
280 " 319 "	1	1,358	1,784	1	1,358	1,784	2	2,716	3,568
320 " 359 "	2	3,973	6,028	11	25,863	35,871	13	29,836	41,899
360 " 399 "	1	2,829	3,827	13	36,973	50,119	14	39,802	53,946
400 " 439 "	4	10,896	17,728	18	60,384	86,929	22	71,280	104,657
440 " 479 "	—	—	—	8	26,904	43,544	8	26,904	43,544
520 " 559 "	—	—	—	1	3,025	4,195	1	3,025	4,195
Totals	119	151,107	243,173	166	290,896	442,835	285	442,003	686,008
Tug or dredge:									
Under 80 feet	107	4,467	4,679	109	4,748	5,148	216	9,215	9,827
80 to 119 feet	168	6,967	19,342	165	6,731	18,803	333	13,698	38,145
120 " 159 "	36	8,256	15,012	21	4,493	8,342	57	12,749	23,354
Totals	311	19,690	39,033	295	15,972	32,293	606	35,662	71,326
Other vessels:									
Under 80 feet	18	412	589	25	862	1,238	43	1,274	1,807
120 to 159 feet	2	268	656	2	433	719	4	701	1,375
200 " 239 "	—	—	—	1	572	1,673	1	572	1,673
Totals	20	680	1,225	28	1,867	3,630	48	2,547	4,855
Grand totals	1,530	2,134,256	3,166,791	3,325	1,390,995	2,060,529	4,855	3,525,251	5,227,320

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	76	90	5	314	370	6	390	460
6 to 7 feet	50	3,946	4,617	2,133	136,164	173,552	2,183	140,110	176,169
8 " 9 "	—	—	—	5	240	350	5	240	350
10 " 11 "	8	2,781	5,094	8	3,445	5,765	14	6,226	10,859
12 " 13 "	56	71,800	104,102	25	27,265	39,901	83	99,065	144,003
14 " 15 "	62	125,165	184,112	36	35,213	57,738	98	160,378	241,848
18 " 17 "	190	367,639	569,002	174	250,965	406,033	364	618,604	975,035
16 " 19 "	230	471,617	699,308	186	367,030	556,860	416	638,647	1,256,188
20 " 21 "	172	431,828	630,963	45	77,546	116,005	217	509,374	746,968
22 " 23 "	30	69,801	105,665	4	6,765	12,705	34	78,566	118,370
24 " 25 "	43	147,969	234,754	17	68,488	98,040	60	218,457	332,794
26 " 27 "	15	67,219	105,134	1	3,789	5,867	16	71,008	110,801
28 " 29 "	10	43,629	71,634	—	—	—	10	43,629	71,634
30 feet and over	4	11,824	18,524	4	6,665	12,278	8	20,309	28,802
Totals	871	1,815,094	2,730,999	2,643	967,909	1,485,262	3,514	2,803,003	4,216,281
Barge or scow:									
5 feet and under	47	8,669	10,278	42	6,964	8,570	89	15,633	18,848
6 to 7 feet	—	—	—	1	32	82	1	32	82
8 " 9 "	137	79,430	79,430	143	82,940	82,940	280	162,370	162,370
10 " 11 "	1	695	695	2	620	693	3	1,315	1,366
18 " 19 "	17	53,360	55,552	1	2,995	3,106	18	56,355	58,658
20 " 21 "	1	3,819	4,694	—	—	—	1	3,819	4,694
Totals	203	145,973	150,649	189	93,551	95,391	392	239,524	246,040
Tug and scow:¹									
5 feet and under	4	1,149	1,149	2	33	48	8	1,182	1,197
6 to 7 feet	2	563	563	—	—	—	2	563	563
10 " 11 "	—	—	—	2	767	1,070	2	767	1,070
Totals	6	1,712	1,712	4	800	1,118	10	2,512	2,830
Tanker:									
10 to 11 feet	9	6,587	10,060	8	4,688	7,656	17	11,475	17,716
12 " 13 "	2	1,222	1,914	1	1,699	2,404	3	2,921	4,318
14 " 15 "	9	12,094	16,588	12	21,329	30,338	21	33,423	46,926
16 " 17 "	86	104,785	174,096	94	119,595	195,884	180	224,380	369,980
18 " 19 "	6	10,194	14,424	9	16,747	23,234	15	26,941	37,658
20 " 21 "	2	3,973	6,028	16	46,931	71,671	18	50,904	77,899
22 " 23 "	4	9,528	15,631	26	79,707	111,648	30	89,235	127,279
30 feet and over	1	2,724	4,432	—	—	—	1	2,724	4,432
Totals	119	151,107	243,173	166	290,896	442,635	285	442,003	686,008
Tug or dredge:									
5 feet and under	19	133	210	16	125	202	37	258	412
6 to 7 feet	67	4,325	4,380	86	4,355	4,381	173	8,680	8,741
8 " 9 "	2	15	181	1	6	92	3	21	273
10 " 11 "	175	9,603	23,635	174	9,010	22,993	349	16,613	46,628
12 " 13 "	2	190	280	7	550	946	9	740	1,226
14 " 15 "	25	5,210	9,980	9	1,928	3,899	34	7,136	13,859
16 " 17 "	1	214	387	—	—	—	1	214	387
Totals	311	19,690	39,033	295	15,972	32,293	606	35,662	71,328
Other vessels:									
5 feet and under	12	124	149	8	88	93	20	212	242
6 to 7 feet	—	—	—	17	774	1,145	17	774	1,145
8 " 9 "	6	288	420	—	—	—	6	288	420
10 " 11 "	1	124	337	1	290	400	2	414	737
12 " 13 "	1	144	319	1	143	319	2	287	638
16 " 17 "	—	—	—	1	572	1,873	1	572	1,673
Totals	20	680	1,225	26	1,867	3,630	48	2,547	4,855
Grand totals	1,530	2,134,256	3,166,791	3,325	1,390,995	2,060,529	4,855	3,525,251	5,227,320

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	479,858	61,897	541,755	5,869	—	5,869	485,727	61,897	547,624
United States	64,291	2,813	67,104	100,889	—	100,889	165,180	2,813	167,993
Totals	544,149	64,710	608,859	106,758	—	106,758	650,907	64,710	715,617
Ports outside Gulf of St. Lawrence:									
Canada Atlantic ports	6,671	—	6,671	—	—	—	6,671	—	6,671
United Kingdom	—	172	172	—	—	—	—	172	172
Belgium	—	486	486	—	1,412	1,412	—	1,898	1,898
France	—	—	—	—	5	5	—	5	5
Germany	—	284	284	—	288	288	—	572	572
Netherlands	—	34	34	—	312	312	—	346	346
Sweden	—	—	—	2,375	—	2,375	2,375	—	2,375
Totals	6,671	976	7,647	2,375	2,017	4,392	9,046	2,993	12,039
Grand totals	550,820	65,686	616,506	109,133	2,017	111,150	659,953	67,703	727,656

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

Country of unloading	Cargo loaded								
	In Canada			In United States			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
Ports between Sault Ste. Marie and Gulf of St. Lawrence:									
Canada	500,302	106,953	607,255	12,405	—	12,405	512,707	106,953	619,660
United States	215,539	131,135	346,674	3,263	—	3,263	218,802	131,135	349,937
Totals	715,841	238,088	953,929	15,668	—	15,668	731,509	238,088	969,597
Ports outside the Gulf of St. Lawrence:									
Canada Atlantic ports	9,070	—	9,070	—	—	—	9,070	—	9,070
United Kingdom	4,696	6,716	11,412	—	—	—	4,696	6,716	11,412
Denmark	—	—	—	2,884	—	2,884	2,884	—	2,884
Germany	—	—	—	—	3	3	—	3	3
Totals	13,766	6,716	20,482	2,884	3	2,887	16,650	6,719	23,369
Grand totals	729,607	244,804	974,411	18,552	3	18,555	748,159	244,807	992,966

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	536,154	64,710	600,864
	United States	114,753	—	114,753
	Totals	650,907	64,710	715,617
Ports outside the Gulf of St. Lawrence	United Kingdom	6,671	123	6,794
	Germany	—	2,821	2,821
	Norway	2,375	—	2,375
	Sweden	—	49	49
	Totals	9,046	2,993	12,039
Grand totals	659,953	67,703	727,656	

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	721,742	238,088	959,830
	United States	8,533	—	8,533
	Other British Commonwealth	1,234	—	1,234
	Totals	731,509	238,088	969,597
Ports outside the Gulf of St. Lawrence	Canada Atlantic Ports	3,681	—	3,681
	United Kingdom	7,774	5,381	13,155
	Denmark	2,884	—	2,884
	Germany	—	1,338	1,338
	Norway	2,311	—	2,311
	Totals	16,650	6,719	23,369
Grand totals	748,159	244,807	992,966	

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

Kind of vessel 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	56	2	58	270	—	270	135.0	2,151	1	2,152	113	—	113	113.0	
1,000 to 1,999	135	30	165	30,035	6,267	36,302	1,210.1	55	104	159	199,903	81,028	260,931	2,701.2	
2,000 " 2,999	121	118	239	130,555	13,316	143,873	1,219.3	25	162	167	258,364	58,386	316,750	1,955.2	
3,000 " 3,999	138	80	218	54,128	2,468	56,596	707.4	5	111	116	134,610	79,080	213,690	1,925.1	
4,000 " 4,999	66	1	67	2,753	—	2,753	2,753.0	2	2	4	15,158	—	15,158	7,579.0	
5,000 " 5,999	21	15	36	49,280	—	49,280	3,285.3	4	14	18	27,152	2,492	29,644	2,117.4	
6,000 " 6,999	53	15	68	50,157	—	50,157	3,343.8	4	3	7	1,978	5,381	7,359	2,453.0	
7,000 " 7,999	18	1	19	—	123	123	123.0	—	—	—	—	—	—	—	
8,000 " 8,999	1	—	1	—	—	—	—	—	—	—	—	—	—	—	
Totals	609	262	871	317,178	22,176	339,354	1,295.2	2,246	397	2,643	637,278	226,367	863,645	2,175.4	
Barge or scow:															
Under 1,000 gross tons	166	19	185	9,544	—	9,544	502.3	59	129	188	71,048	13,640	64,686	656.5	
3,000 to 3,999	16	—	16	—	—	—	—	—	1	1	—	4,800	4,800	4,800.0	
4,000 " 4,999	2	—	2	—	—	—	—	—	—	—	—	—	—	—	
Totals	184	19	203	9,544	—	9,544	502.3	59	130	189	71,048	18,440	89,488	688.3	
Tug and scow:¹															
Under 1,000 gross tons	6	—	6	—	—	—	—	2	—	2	—	—	—	—	
1,000 to 1,999	—	—	—	—	—	—	—	2	—	2	—	—	—	—	
Totals	6	—	6	—	—	—	—	4	—	4	—	—	—	—	
Tanker:															
Under 1,000 gross tons	1	9	10	13,759	—	13,759	1,528.6	8	2	10	3,652	—	3,652	1,826.0	
1,000 to 1,999	6	56	62	135,128	29,867	164,995	2,946.3	54	9	63	22,096	—	22,096	2,455.1	
2,000 " 2,999	3	38	41	106,246	15,660	121,906	3,208.0	41	3	44	9,066	—	9,066	3,028.7	
3,000 " 3,999	1	1	2	33,154	—	33,154	33,154.0	19	2	21	5,001	—	5,001	2,500.5	
4,000 " 4,999	—	4	4	44,944	—	44,944	11,238.0	11	—	11	—	—	—	—	
5,000 " 5,999	—	—	—	—	—	—	—	17	—	17	—	—	—	—	
Totals	11	108	119	333,231	45,527	378,758	3,507.0	150	16	166	39,835	—	39,835	2,489.7	
Other vessels:															
Under 1,000 gross tons	331	—	331	—	—	—	—	322	—	322	—	—	—	—	
1,000 to 1,999	—	—	—	—	—	—	—	1	—	1	—	—	—	—	
Totals	331	—	331	—	—	—	—	323	—	323	—	—	—	—	
Grand totals	1,141	369	1,530	659,953	67,703	727,656	1,870.6	2,782	543	3,325	748,159	244,807	992,966	1,828.7	

¹ Assessed as one unit.

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										
Products of agriculture:											
Flour	284	—	—	—	—	—	—	—	284	—	284
Products of agriculture, n.o.s.	658	—	—	—	—	—	—	2	658	2	660
Totals	942	—	—	—	—	—	—	2	942	2	944
Animals and products:											
Animals and products, n.o.s.	27	—	—	—	—	—	—	—	27	—	27
Products of mines:											
Coal, bituminous	—	—	23,953	—	—	—	—	—	23,953	—	23,953
Sand and gravel	1,234	4,949	—	—	—	—	—	—	1,234	4,949	6,183
Stone and rock, broken, crushed	—	—	23,678	—	—	—	—	—	23,678	—	23,678
Salt	6,563	—	—	—	—	—	—	—	6,563	—	6,563
Sulphur	—	—	6,312	—	—	—	—	—	6,312	—	6,312
Product of mines, n.o.s.	—	650	—	2,519	—	—	—	—	—	3,169	3,169
Totals	7,797	5,599	53,943	2,519	—	—	—	—	61,740	8,118	69,858
Products of forests:											
Logs, butts and bolts	—	284	—	—	—	—	—	—	—	284	284
Manufactures and miscellaneous:											
Gasoline	77,137	—	—	72,581	—	—	—	—	77,137	72,581	149,718
Fuel, road and petroleum residual oil	187,085	—	11,305	19,149	—	—	—	—	198,390	19,149	217,539
Petroleum products, refined	5,654	—	—	6,640	—	—	—	—	5,654	6,640	12,294
Chemicals	4,362	—	—	—	—	—	—	20	4,382	—	4,382
Manufactured iron and steel	3,382	—	1,524	—	—	—	541	1,251	5,447	1,251	6,698
Rails and railway track materials	3,338	—	—	—	—	—	—	—	3,338	—	3,338
Cement	10,741	—	—	—	—	—	—	—	10,741	—	10,741
Food products	6,322	—	—	—	—	—	—	10	6,332	—	6,332
Manufactures and miscellaneous, n.o.s.	11,626	—	332	—	172	—	233	3,139	12,363	3,139	15,502
Totals	309,647	—	13,161	96,370	172	—	804	4,390	323,784	102,760	426,544
Domestic package freight	229,999	—	—	—	—	—	—	—	229,999	—	229,999
Grand totals	548,412	5,883	67,104	100,889	172	—	804	4,392	616,492	111,164	727,656

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										
Products of agriculture:											
Wheat	134,696	15,083	2,385	—	152,164	—	—	—	—	—	152,164
Corn	—	—	—	—	—	2,800	—	—	—	—	2,800
Oats	32,778	7,252	—	—	40,030	—	—	—	—	—	40,030
Barley	29,945	57,619	—	—	87,564	—	—	—	2,884	2,884	90,448
Rye	630	5,689	—	—	6,319	—	—	—	—	—	6,319
Grain, n.o.s.	10,053	2,896	—	—	12,949	—	—	—	—	—	12,949
Flour	8,498	—	—	—	8,498	—	—	—	—	—	8,498
Mill products, n.o.s.	109,126	—	2,311	—	111,437	—	—	—	—	—	111,437
Soybeans	—	—	—	—	—	9,124	—	—	—	—	9,124
Malt	41,602	—	—	—	41,602	—	—	—	—	—	41,602
Flaxseed	7,457	—	—	—	7,457	—	—	—	—	—	7,457
Totals	374,785	88,539	4,696	—	468,020	11,924	—	—	2,884	14,808	482,828
Products of mines:											
Sand and gravel	84,205	—	—	—	84,205	482	—	—	—	482	84,687
Products of forests:											
Pulpwood	—	4,800	—	—	4,800	—	—	—	—	—	4,800
Products of forests, n.o.s.	—	—	—	—	—	—	113	—	—	113	113
Totals	—	4,800	—	—	4,800	—	113	—	—	113	4,913
Manufactures and miscellaneous:											
Gasoline	3,937	—	—	—	3,937	—	—	—	—	—	3,937
Fuel, road and petroleum residual oil	3,702	6,593	—	—	10,295	—	—	—	—	—	10,295
Chemicals	2,599	—	—	—	2,599	—	—	—	—	—	2,599
Tar, pitch and creosote	21,177	—	—	—	21,177	—	—	—	—	—	21,177
Iron, pig	568	14,717	—	—	15,285	—	—	—	—	—	15,285
Iron and steel, bar, rod and slab	3,515	1,347	—	—	4,862	—	—	—	—	—	4,862
Iron and steel, n.o.s.	12,716	3,698	5,457	—	21,871	—	—	—	—	—	21,871
Manufactured iron and steel	4,747	3,489	1,145	—	9,381	—	—	—	—	—	9,381
Woodpulp	—	101,878	—	—	101,878	—	3,150	—	—	3,150	105,028
Newsprint paper	—	73,719	—	—	73,719	—	—	—	—	—	73,719
Feed, animal and poultry	17,626	—	—	—	17,626	—	—	—	—	—	17,626
Iron and steel scrap	4,494	—	—	—	4,494	—	—	—	—	—	4,494
Manufactures and miscellaneous, n.o.s.	23,777	48,566	114	—	72,457	—	—	2	—	2	72,459
Totals	98,858	254,007	6,716	—	359,581	—	3,150	—	2	3,152	362,733
Domestic package freight	57,805	—	—	—	57,805	—	—	—	—	—	57,805
Grand totals	615,653	347,346	11,412	—	974,411	12,406	3,263	—	2,886	18,555	992,966

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	478	239	717	383,420	576,111	89,513	—	147	576	723	397,675	600,784	650,052	515
United Kingdom	11	3	14	5,096	9,161	1,142	—	1	12	13	3,971	7,410	10,895	—
Other countries	1	10	11	8,844	19,523	8,058	—	10	1	11	8,844	19,523	1,404	—
Totals	490	252	742	397,360	604,795	98,713	—	158	589	747	410,490	627,717	662,351	515
Scow or barge:														
Canada	227	—	227	93,935	94,607	—	—	67	184	251	103,481	103,559	175,800	—
United States	—	—	—	—	—	—	—	3	—	3	3,300	6,110	—	—
Totals	227	—	227	93,935	94,607	—	—	70	184	254	106,781	109,669	175,800	—
Tug and scow:¹														
Canada	278	2	280	76,275	86,068	80	—	68	236	304	80,979	91,298	104,143	—
Tanker:														
Canada	5	19	24	24,533	39,908	33,232	—	28	—	26	28,813	46,617	—	—
Tug or dredge:														
Canada	330	—	330	14,388	29,364	—	—	338	—	338	14,986	29,916	—	—
United States	7	—	7	1,098	2,047	—	—	8	—	8	4,068	4,563	—	—
Totals	337	—	337	15,486	31,411	—	—	346	—	346	19,054	34,479	—	—
Other vessels:														
Canada	58	1	59	1,831	3,820	100	—	68	1	69	3,556	7,117	100	—
United States	2	—	2	363	363	—	—	—	—	—	—	—	—	—
Totals	60	1	61	2,194	4,183	100	—	68	1	69	3,556	7,117	100	—
Grand totals	1,397	274	1,671	609,783	860,972	132,125	—	736	1,010	1,746	649,655	916,897	942,394	515
Non toll traffic included	1,063	236	1,299	322,061	415,732	53,846	—	569	781	1,350	322,998	410,938	350,111	—

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	268	162,372	268,771	731	172,625	245,931	523	170,803	181,970	1,522	505,800	696,672
United States	—	—	—	1	114	213	—	—	—	1	114	213
United Kingdom	2	1,305	2,148	11	3,096	5,685	—	—	—	13	4,401	7,833
Other Commonwealth	—	—	—	11	8,844	19,523	—	—	—	11	8,844	19,523
Totals	270	163,677	270,919	754	184,679	271,352	523	170,803	181,970	1,547	519,159	724,241
Canada to United States:												
Canada	58	66,200	103,199	9	12,960	18,283	—	—	—	67	79,160	121,482
United States	—	—	—	8	1,347	2,197	—	—	—	8	1,347	2,197
Totals	58	66,200	103,199	17	14,307	20,480	—	—	—	75	80,507	123,679
United States to Canada:												
Canada	—	—	—	48	9,422	11,724	—	—	—	48	9,422	11,724
United Kingdom to Canada:												
United Kingdom	—	—	—	1	695	1,328	—	—	—	1	695	1,328
Totals, upbound	328	229,877	374,118	820	209,103	304,884	523	170,803	181,970	1,671	609,763	860,972
Downbound												
Canada to Canada:												
Canada	282	168,117	276,566	726	147,776	217,343	582	185,720	196,914	1,570	501,613	690,823
United States	—	—	—	1	114	213	—	—	—	1	114	213
United Kingdom	—	—	—	13	3,971	7,410	—	—	—	13	3,971	7,410
Other Commonwealth	—	—	—	11	8,844	19,523	—	—	—	11	8,844	19,523
Totals	282	168,117	276,566	751	160,705	244,489	582	185,720	196,914	1,595	514,542	717,969
Canada to United States:												
Canada	—	—	—	48	9,422	11,724	—	—	—	48	9,422	11,724
United States to Canada:												
Canada	66	76,450	118,935	27	41,987	57,809	—	—	—	93	118,437	176,744
United States	—	—	—	7	3,954	4,350	3	3,300	6,110	10	7,254	10,460
Totals	66	76,450	118,935	34	45,941	62,159	3	3,300	6,110	103	125,691	187,204
Totals, downbound	328	244,567	395,501	833	216,068	318,372	585	189,020	203,024	1,746	649,655	916,897
Grand totals	656	474,444	769,619	1,653	425,171	623,256	1,108	359,823	384,994	3,417	1,259,438	1,777,869

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							
Wheat	5,727	273,079	—	—	—	21,421	5,727	294,500
Corn	—	—	—	—	—	2,649	—	2,649
Oats	—	5,570	—	—	—	—	—	5,570
Barley	—	17,204	—	6,318	—	—	—	23,522
Other grain	—	3,005	—	—	—	—	—	3,005
Other mill products	—	1,242	—	—	—	—	—	1,242
Malt	—	26,361	—	—	—	—	—	26,361
Bituminous coal	41,325	3,965	—	—	—	221,494	41,325	225,459
Iron ore	120	—	—	—	—	—	120	—
Gravel and sand	—	279,620	—	—	—	—	—	279,620
Products of mines, n.o.s.	—	740	—	—	—	—	—	740
Lumber, shingles and lath	19,292	1,556	—	—	—	—	19,292	1,556
Fuel, road and petroleum residual oils	25,444	183	—	—	—	—	25,444	183
Chemicals, n.o.s.	—	2,060	—	—	—	—	—	2,060
Tar, pitch and creosote	7,668	—	—	—	—	—	7,668	—
Metal and alloys, n.o.s.	837	—	—	—	—	—	837	—
Iron and steel, n.o.s.	154	1,886	—	—	—	—	154	1,886
Manufactured iron and steel	36	1,344	—	—	—	—	36	1,344
Machinery and machines, n.o.s.	1,277	3,266	—	—	—	—	1,277	3,266
Motor vehicles and parts	108	553	—	—	—	—	108	553
Cement	—	495	—	—	—	—	—	495
Wallboard	8,058	—	—	—	—	—	8,058	—
Building materials	—	369	—	—	—	—	—	369
Scrap iron and steel	1,716	—	—	—	—	—	1,716	—
Manufactures and miscellaneous, n.o.s.	5,356	13,390	—	—	4,550	—	9,906	13,390
Domestic package freight	10,457	54,624	—	—	—	—	10,457	54,624
Totals	127,575	690,512	—	6,316	4,550	245,564	132,125	942,394
Non toll traffic included	49,394	350,111	—	—	4,452	—	53,846	350,111
Passengers	No.	515	—	—	—	—	—	515

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	33	33	66	98,399	120,746	105,246	—	12	13	25	35,434	45,935	35,065	—
Other countries	2	2	4	2,838	5,110	3,320	—	1	—	1	796	1,555	—	—
Totals	35	35	70	101,237	125,856	108,566	—	13	13	26	36,230	47,490	35,065	—
Scow or barge:														
Canada	26	—	26	3,829	3,972	—	—	34	—	34	5,579	6,086	—	—
Tug and scow: ¹														
Canada	62	—	62	10,082	12,501	—	—	74	—	74	14,437	17,285	—	—
Tanker:														
Canada	1	50	51	26,448	40,822	53,679	—	42	—	42	15,811	23,135	—	—
Tug or dredge:														
Canada	183	—	183	7,531	19,340	—	—	156	—	156	5,688	17,336	—	—
Other vessels:														
Canada	23	—	23	1,296	2,763	—	—	21	—	21	689	1,242	—	—
United States	1	—	1	4	6	—	—	1	—	1	4	6	—	—
Totals	24	—	24	1,300	2,769	—	—	22	—	22	693	1,248	—	—
Grand totals	311	85	396	150,425	205,260	162,247	—	341	13	354	78,436	112,580	35,065	—
Non toll traffic included	219	—	219	30,594	48,074	—	—	213	—	213	16,978	30,525	—	—

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	46	14,861	24,974	241	102,333	136,969	91	13,829	16,402	378	131,023	178,345
Canada to United States:												
Canada	4	5,802	8,672	9	10,758	13,127	-	-	-	13	16,560	21,799
United States	-	-	-	1	4	6	-	-	-	1	4	6
Other Commonwealth	-	-	-	2	1,419	2,555	-	-	-	2	1,419	2,555
Totals	4	5,802	8,672	12	12,181	15,688	-	-	-	16	17,983	24,360
United Kingdom to Canada:												
Other Commonwealth	-	-	-	2	1,419	2,555	-	-	-	2	1,419	2,555
Totals, upbound	50	20,663	33,646	255	115,933	155,212	91	13,829	16,402	396	150,425	205,260
Downbound												
Canada to Canada:												
Canada	41	11,741	19,112	188	32,074	50,223	112	20,229	23,705	341	64,044	93,040
Other Commonwealth	-	-	-	1	796	1,555	-	-	-	1	796	1,555
Totals	41	11,741	19,112	189	32,870	51,778	112	20,229	23,705	342	64,840	94,595
United States to Canada:												
Canada	3	2,889	4,935	8	10,703	13,044	-	-	-	11	13,592	17,979
United States	-	-	-	1	4	6	-	-	-	1	4	6
Totals	3	2,889	4,935	9	10,707	13,050	-	-	-	12	13,596	17,985
Totals, downbound	44	14,630	24,047	198	43,577	64,828	112	20,229	23,705	354	78,436	112,580
Grand totals	94	35,293	57,693	453	159,510	220,040	203	34,058	40,107	750	228,861	317,840

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

Commodity	Canada to Canada		United Kingdom to Canada		United States to Canada		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
	tons							
Bituminous coal	90,021	4,066	-	-	-	26,489	90,021	30,555
Salt	-	2,810	-	-	-	-	-	2,810
Sulphur	15,227	-	-	-	-	-	15,227	-
Fuel, road, and petroleum residual oils	53,679	-	-	-	-	-	53,679	-
Clay and bentonite	-	-	3,320	-	-	-	3,320	-
Manufactures and miscellaneous	-	-	-	-	-	1,700	-	1,700
Totals	158,927	6,876	3,320	-	-	28,189	162,247	35,065
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	321,440	17,833	339,273	4,696,935	17,345	4,714,280	5,018,375	35,178	5,053,553
Other Canadian Lake Superior ports	34,900	651	35,551	157,185	39,865	197,050	192,085	40,516	332,601
Little Current	2,735	—	2,735	8,050	—	8,050	10,785	—	10,785
Other Canadian Lake Huron ports	63,354	545	63,899	132,206	75,467	207,673	195,560	76,012	271,572
Other Georgian Bay ports	66,247	—	66,247	26,131	7,949	34,080	92,378	7,949	100,327
Sarnia	169,699	615	170,314	366,926	52,062	418,988	536,625	52,677	589,302
Windsor	121,759	4,734	126,493	47,521	1,993	49,514	169,280	6,727	176,007
Canadian St. Clair Lake and river and Detroit river ports	5,579	—	5,579	144,062	—	144,062	149,641	—	149,641
Port Colborne	131,849	159	132,008	1,243,669	529	1,244,198	1,375,518	688	1,376,206
Canadian Lake Erie ports	139,820	346	140,166	47,073	398	47,471	186,893	744	187,637
Thorold	581,076	353	581,429	27,098	183,074	210,172	608,174	183,427	791,601
Port Weller	83,562	240	83,802	—	—	—	83,562	240	83,802
Other Canadian Welland Canal ports	429,392	73	429,465	77,092	9,542	86,634	506,484	9,615	516,099
Hamilton	7,342,028	48,252	7,390,280	358,348	192,265	550,613	7,700,376	240,517	7,940,893
Port Credit	370,458	—	370,458	44,611	—	44,611	415,069	—	415,069
Toronto	2,385,865	229,522	2,615,387	588,216	56,565	644,781	2,974,081	286,087	3,260,168
Picton	10,377	—	10,377	222,751	—	222,751	233,128	—	233,128
Kingston	584,502	629	585,131	182,750	—	182,750	767,252	629	767,881
Prescott	650,080	—	650,080	274,806	—	274,806	924,886	—	924,886
Cornwall	202,655	—	202,655	—	—	—	202,655	—	202,655
Other Canadian Lake Ontario ports and St. Lawrence river to Iroquois	480,342	—	480,342	298,607	2,971	301,578	778,949	2,971	781,920
Canadian St. Lawrence canal ports	73,635	—	73,635	3,692	—	3,692	77,327	—	77,327
Lachine canal ¹	798,199	—	798,199	3,638	548	4,186	801,837	548	802,385
Montreal	3,016,919	9,744	3,026,663	1,486,529	18,869	1,505,398	4,503,448	28,613	4,532,061
Contrecoeur	—	—	—	774,287	—	774,287	774,287	—	774,287
Sorel	377,853	243	378,096	145,065	—	145,065	522,918	243	523,161
Three Rivers	389,601	—	389,601	16,384	79,371	95,755	405,985	79,371	485,356
Sept Iles	1,487	45	1,532	3,381,985	—	3,381,985	3,383,452	45	3,383,497
Other Canadian St. Lawrence river ports East of Montreal	1,307,566	9,596	1,317,162	302,808	135,651	438,459	1,610,374	145,247	1,755,621
Halifax	136,606	100	136,706	2,077	—	2,077	138,683	100	138,783
Saint John	7,337	—	7,337	—	—	—	7,337	—	7,337
Other Canadian Atlantic Coast and Gulf of St. Lawrence ports	77,300	1,018	78,318	69,625	63,985	133,610	146,925	85,003	211,928
Canadian Pacific Coast ports	471	—	471	4,045	2,151	6,196	4,516	2,151	6,667
Totals	20,364,693	324,698	20,689,391	15,134,152	940,600	16,074,752	35,498,845	1,265,298	36,764,143

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	6,595	12,768	19,363	2,752,560	1,097	2,753,657	2,759,155	13,865	2,773,020
Superior	—	—	—	315,929	—	315,929	315,929	—	315,929
Other United States Lake Superior ports	—	171	171	2,492,672	—	2,492,672	2,492,672	171	2,492,843
Chicago	126,788	473,591	600,379	1,192,046	192,723	1,384,769	1,318,834	666,314	1,985,148
Milwaukee	5,180	62,196	67,376	169,559	54,370	223,929	174,739	116,566	291,305
Other United States Lake Michigan ports	91,719	25,055	116,774	759,118	59,134	818,252	850,837	84,189	935,026
United States Lake Huron ports	63,535	715	64,250	336,769	18,305	355,074	400,304	19,020	419,324
Detroit	904,333	181,130	1,085,463	239,151	245,925	485,076	1,143,484	427,055	1,570,539
Other United States St. Clair Lake and river and Detroit river ports	71,795	358	72,153	113,222	464	113,686	185,017	822	185,839
Ashtabula	1,649,718	1,609	1,651,327	1,547,330	2,948	1,550,278	3,197,048	4,557	3,201,605
Buffalo	545,198	12,616	557,814	212,135	11,459	223,594	757,333	24,075	781,408
Cleveland	1,616,906	156,844	1,773,750	76,421	61,626	138,047	1,693,327	218,470	1,911,797
Conneaut	59,114	1,019	60,133	33,707	3,667	37,374	92,821	4,886	97,507
Erie	31,321	560	31,881	136,907	3,117	140,024	168,228	3,677	171,905
Lackawanna	39,487	—	39,487	—	—	—	39,487	—	39,487
Lorain	66,753	—	66,753	3,409	—	3,409	70,162	—	70,162
Sandusky	—	—	—	1,280,823	—	1,280,823	1,280,823	—	1,280,823
Toledo	228,046	37,885	265,931	1,787,588	36,284	1,823,872	2,015,634	74,169	2,089,803
Other United States Lake Erie ports	525,621	—	525,621	170,415	1,087	171,502	696,036	1,087	697,123
Oswego	224,437	1,040	225,477	92,542	2,486	95,028	316,979	3,526	320,505
Rochester	11	15,490	15,501	12,041	1,012	13,053	12,052	16,502	28,554
Other United States Lake Ontario and St. Lawrence river to Ogdensburg	136,263	—	136,263	94,401	7,997	102,398	230,664	7,997	238,661
United States St. Lawrence canal ports	160,560	—	160,560	3,487	—	3,487	164,047	—	164,047
United States Atlantic and Gulf of Mexico ports	250,435	7,431	257,866	344,605	—	344,605	595,040	7,431	602,471
United States Hudson River ports	116,201	—	116,201	91,502	—	91,502	207,703	—	207,703
United States Pacific Coast ports	—	59	59	—	2,313	2,313	—	2,372	2,372
Totals	6,920,016	990,537	7,910,553	14,358,339	706,014	14,964,353	21,178,355	1,696,551	22,874,906
Grand totals	27,284,709	1,315,235	28,599,944	29,392,491	1,646,614	31,039,105	56,677,200	2,961,849	59,639,049

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	233,874	40,441	274,315	284,914	166,728	451,642	518,788	207,169	725,957
Other Canadian Lake Superior ports	95,216	17,720	112,936	181,994	71,150	253,144	277,210	88,870	366,080
Other Canadian Lake Huron ports	114,977	26,096	141,073	12,666	2,103	14,769	127,643	28,199	155,842
Other Georgian Bay ports	109,528	62,986	172,514	3,598	2,436	6,034	113,126	65,422	178,548
Sarnia	14,742	2,361	17,103	205,439	46,577	252,016	220,181	48,938	269,119
Windsor	20,049	8,133	28,182	29,512	4,079	33,591	49,561	12,212	61,773
Other Canadian St. Clair Lake and river and Detroit river ports	3,151	—	3,151	28	—	28	3,179	—	3,179
Port Colborne	673	7,167	7,840	—	—	—	673	7,167	7,840
Other Canadian Lake Erie ports	46	—	46	19,425	153	19,578	19,471	153	19,624
Totals	592,256	164,904	757,160	737,576	293,226	1,030,802	1,329,832	458,130	1,787,962
In United States:									
United States Lake Superior ports	106,758	—	106,758	594	—	594	107,352	—	107,352
Chicago	4,768	25,992	30,760	57,372	—	57,372	62,140	25,992	88,132
Milwaukee	52,075	48,936	101,011	1,524	332	1,856	53,599	49,268	102,867
Other United States Lake Michigan ports	69,245	18,140	87,385	63,859	—	63,859	133,104	18,140	151,244
United States Lake Huron ports	36,209	—	36,209	20,437	—	20,437	58,846	—	56,646
Detroit	25,466	31,221	56,687	3,483	—	3,483	28,949	31,221	60,170
Other United States St. Clair Lake and river and Detroit river ports	1,245	—	1,245	—	—	—	1,245	—	1,245
Cleveland	2,495	2,956	5,451	—	—	—	2,495	2,956	5,451
Toledo	12,833	3,890	16,723	18,505	2,481	20,986	31,338	6,371	37,709
Totals	311,094	131,135	442,229	165,774	2,813	168,587	476,868	133,948	610,816
Grand totals	903,350	296,039	1,199,389	903,350	296,039	1,199,389	1,806,700	592,078	2,398,778

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

	Upbound			Downbound			Grand total 1960	Grand total 1959	
	Canadian canal	United States canal ²	Total	Canadian canal	United States canal ²	Total			
Vessel passages	1,530	9,192	10,722	3,325	7,414	10,739	21,461	19,062	
Passengers	14,183	144,560	158,743	157,749	7,296	165,045	323,788	369,886	
	Cargo tons								
Paper and woodpulp	—	—	—	178,747	64,400	243,147	243,147	87,841	
Pulpwood, lumber and logs	284	—	284	4,800	255,988	260,788	261,072	292,523	
Wheat	—	—	—	152,164	7,458,405	7,610,569	7,810,569	7,496,253	
Barley	—	—	—	90,448	1,823,884	1,914,332	1,914,332	1,926,246	
Oats	—	—	—	40,030	879,574	919,604	919,604	1,063,593	
Corn	—	—	—	2,800	566,906	569,706	569,706	424,874	
Rye	—	—	—	6,319	195,373	201,692	201,692	148,267	
Flaxseed	—	—	—	7,457	367,019	374,476	374,476	449,305	
Flour	284	—	284	8,498	49,954	58,452	58,736	65,182	
Other grain and mill products	—	—	—	124,386	438,888	563,274	563,274	213,724	
Iron ore	—	42,002	42,002	—	67,896,899	67,896,899	67,938,901	47,214,492	
Manufactured iron and steel	6,698	207,836	214,534	9,381	208,964	218,345	432,879	152,296	
Pig iron	—	—	—	15,285	209,397	224,682	224,682	315,946	
Scrap iron	—	38,737	38,737	4,494	158,490	162,984	201,721	111,381	
Sand, gravel and stone	29,861	1,250,045	1,279,906	84,687	—	84,687	1,364,593	1,400,900	
Fuel oil	217,539	208,303	425,842	10,295	21,478	31,773	457,615	473,172	
Other petroleum products	12,294	—	12,294	—	560	560	12,854	29,050	
Gasoline	149,718	132,948	282,666	3,937	—	3,937	286,603	286,348	
Cement	10,741	213,332	224,073	—	—	—	224,073	370,416	
Coal, bituminous	23,953	6,940,037	6,963,990	—	—	—	8,963,990	7,361,355	
Coal, anthracite	—	114,224	114,224	—	—	—	114,224	150,108	
Coke	—	22,354	22,354	—	—	—	22,354	31,369	
Salt	6,563	—	6,563	—	—	—	6,563	20,418	
Autos, trucks and parts	—	29,652	29,652	—	—	—	29,652	26,147	
Other freight	269,721	222,242	491,963	249,238	36,111	285,349	777,312	795,127	
Totals	727,656	9,421,712	10,149,368	992,966	80,632,290	81,625,256	91,774,624	70,906,331	

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 800 ft., Width 80 ft., Depth 31.0 ft.

TABLE 50. Cargo tons Carried in Interlake Traffic¹

From lake or area	To						Total
	Lake Superior	Lake Michigan	Lake Huron	Lake Erie ²	Lake Ontario ³	St. Lawrence river	
Lake Superior .....	...	22,057,470 ⁴	2,596,075 ⁴	46,456,151 ⁴	4,809,647	2,693,188	78,612,531
Lake Michigan	1,041,799 ⁴	...	..	..	1,021,476	302,973	..
Lake Huron	1,759,412 ⁴	...	..	..	267,724	192,082	..
Lake Erie ²	6,915,448 ⁴	...	..	..	4,689,828	1,448,094	..
Lake Ontario ³	291,543	188,762	130,230	444,041	...	1,342,284	2,396,860
St. Lawrence river	56,408	187,095	24,982	4,414,854	1,524,388	...	6,207,727
Totals	10,064,610	..	..	..	12,313,063	5,978,621	..

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

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

Canal networks	Barley	Wheat	Crude petroleum	Newsprint	Pulpwood	Bituminous coal	Iron ore	All other freight	1960 Total	1959 Total
cargo tons										
Upbound:										
St. Lawrence and Ottawa	—	—	—	—	—	—	—	80	80	6
St. Lawrence and Richelieu ¹	—	—	—	—	—	—	—	4,267	4,267	—
St. Lawrence only	—	5,727	342,587	11,450	60,424	229,160	250,804	1,889,975	2,790,127	3,777,031
St. Lawrence and Welland	—	—	—	256,066	217,299	88,079	4,061,822	1,388,237	6,011,503	7,332,257
St. Lawrence, Welland and Sault Ste. Marie	—	—	—	—	—	—	—	57,920	57,920	45,905 ²
Welland only	—	11,690	—	189,412	—	15,356	194,871	1,745,449	2,156,778	2,132,667
Welland and Sault Ste. Marie	—	—	—	—	—	—	—	171,124	171,124	85,443 ²
Sault Ste. Marie only	—	—	—	—	—	23,953	—	474,659	498,612	306,348 ²
Totals	—	17,417	342,587	456,928	277,723	356,548	4,507,497	5,731,711	11,690,411	13,679,657
Downbound:										
St. Lawrence and Ottawa	—	—	—	—	—	—	—	279,620	279,620	327,600
St. Lawrence and Richelieu ³	—	—	—	—	—	—	—	—	—	17,449
St. Lawrence only	28,693	684,873	—	146	—	240,515	37	1,011,741	1,966,005	2,267,542
St. Lawrence and Welland	939,500	3,138,593	—	5,646	—	463,753	—	4,889,553	9,437,045	7,252,916
St. Lawrence, Welland and Sault Ste. Marie	15,366	50,444	—	360	—	—	—	141,493	207,663	186,835 ²
Welland only	249,838	1,298,334	—	—	80,893	3,797,156	3,669,083	2,069,870	11,165,174	10,401,460
Welland and Sault Ste. Marie	7,628	24,344	—	312	—	—	—	47,639	79,923	68,247 ²
Sault Ste. Marie only	67,454	77,376	—	73,047	4,800	—	—	482,703	705,380	539,916 ²
Totals	1,306,479	5,273,964	—	79,511	85,693	4,501,424	3,669,120	8,922,619	23,840,810	21,081,965

¹ Down the Richelieu river canal.

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

³ Up the Richelieu river canal.

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	1,235	824	—	1,896	109	124	1,344	2,844
Welland section	44	775	—	6	1	123	45	904
Sault Ste. Marie Section	5,995	—	—	8,188	—	—	5,995	8,188
Totals	7,274	1,599	—	10,090	110	247	7,384	11,936
	Downbound							
	Canada to			United States to			Total to	
	Canada	United States	Other countries	Canada	United States	Other countries	Canada	United States
	number							
St. Lawrence section	1,548	—	76	902	1,825	81	2,450	1,825
Welland section	45	3	12	845	330	81	890	333
Sault Ste. Marie section	5,932	—	—	—	151,817	—	5,932	151,817
Totals	7,525	3	88	1,747	153,972	162	9,272	153,975

TABLE 53. Water Freight Charges on the Great Lakes for Wheat, 1960 and 1959

Fort William—Port Arthur to	1960			1959		
	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	3.53	13.00	4.33	0.353
May	13.00	4.33	3.53	13.59	4.53	0.369
June	13.00	4.33	3.53	13.00	4.33	0.353
July	13.00	4.33	3.53	13.04	4.35	0.354
August	13.00	4.33	3.53	13.09	4.36	0.355
September	13.00	4.33	3.53	13.63	4.54	0.370
October	13.00	4.33	3.53	13.57	4.52	0.368
November	13.00	4.33	3.53	13.38	4.48	0.383
December	13.00	4.33	3.53	—	—	—
Average	13.00	4.33	3.53	13.32	4.44	0.361
Winter storage	—	—	—	16.50	5.50	0.448
Goderich and Georgian Bay ports:						
April	5.01	1.67	0.310	4.50	1.50	0.279
May	5.00	1.67	0.310	4.50	1.50	0.279
June	5.00	1.67	0.310	4.50	1.50	0.279
July	5.00	1.67	0.310	4.50	1.50	0.279
August	5.00	1.67	0.310	4.50	1.50	0.279
September	5.00	1.67	0.310	4.50	1.50	0.279
October	5.02	1.67	0.310	4.69	1.56	0.290
November	5.04	1.68	0.312	4.74	1.58	0.294
December	5.67	1.89	0.351	5.62	1.94	0.361
Average	5.05	1.68	0.312	4.72	1.57	0.292
Winter storage	9.54	3.18	0.591	9.43	3.14	0.585
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	6.41	2.14	0.252
August	6.50	2.17	0.256	6.42	2.14	0.252
September	6.50	2.17	0.256	6.40	2.13	0.251
October	6.50	2.17	0.256	6.93	2.31	0.272
November	6.50	2.17	0.256	7.30	2.43	0.286
December	6.50	2.17	0.256	7.21	2.40	0.283
Average	6.50	2.17	0.256	6.78	2.26	0.266
Winter storage	11.21	3.74	0.441	12.27	4.09	0.482
Buffalo:						
April	—	—	—	—	—	—
May	8.00	2.67	0.310	8.09	2.69	0.312
June	8.00	2.67	0.310	—	—	—
July	—	—	—	—	—	—
August	—	—	—	7.50	2.50	0.290
September	—	—	—	—	—	—
October	8.00	2.67	0.310	—	—	—
November	8.00	2.67	0.310	—	—	—
December	—	—	—	—	—	—
Average	8.00	2.67	0.310	8.05	2.66	0.311
Winter storage	—	—	—	—	—	—
Port Colborne to Montreal:						
April	6.69	2.23	0.587	8.50	2.83	0.745
May	7.00	2.33	0.613	7.65	2.55	0.671
June	7.47	2.49	0.655	7.36	2.45	0.645
July	7.18	2.39	0.629	7.46	2.49	0.655
August	7.50	2.50	0.658	7.38	2.46	0.647
September	7.40	2.47	0.650	7.50	2.50	0.658
October	7.50	2.50	0.658	7.49	2.50	0.658
November	7.50	2.50	0.658	7.53	2.51	0.660
December	—	—	—	—	—	—
Average	6.96	2.32	0.611	7.44	2.48	0.653

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, 1960

Fort William — Port Arthur to	Barley			Oats		
	Average charge per bushel ¹	Average charge per ton	Average charge per ton-mile	Average charge per bushel ¹	Average charge per ton	Average charge per ton-mile
	cents	\$	cents	cents	\$	cents
Montreal:						
April	12.50	5.21	0.424	—	—	—
May	12.66	5.27	0.429	10.72	6.30	0.513
June	12.37	5.15	0.419	10.22	6.01	0.489
July	12.54	5.22	0.425	10.12	5.95	0.485
August	12.25	5.10	0.415	10.00	5.88	0.479
September	12.41	5.17	0.421	10.00	5.88	0.479
October	12.40	5.17	0.421	10.00	5.88	0.479
November	12.38	5.16	0.420	10.07	5.92	0.482
December	12.25	5.10	0.415	10.00	5.88	0.479
Average	12.46	5.19	0.423	10.11	5.95	0.485
Goderich and Georgian Bay ports:						
April	5.05	2.10	0.390	4.67	2.75	0.511
May	4.79	2.00	0.372	4.52	2.66	0.494
June	4.75	1.98	0.368	4.54	2.67	0.496
July	4.75	1.98	0.368	4.50	2.65	0.493
August	4.75	1.98	0.368	4.50	2.65	0.493
September	4.75	1.98	0.368	4.50	2.65	0.493
October	4.86	2.02	0.375	4.66	2.74	0.509
November	5.11	2.13	0.396	4.93	2.90	0.539
December	5.71	2.38	0.442	5.02	2.95	0.548
Average	5.02	2.09	0.388	4.68	2.75	0.511
Port Colborne:						
April	—	—	—	6.00	3.53	0.416
May	6.50	2.71	0.319	6.00	3.53	0.416
June	6.50	2.71	0.319	6.00	3.53	0.416
July	6.50	2.71	0.319	6.00	3.53	0.416
August	6.39	2.66	0.314	6.00	3.53	0.416
September	—	—	—	—	—	—
October	6.50	2.71	0.319	6.00	3.53	0.416
November	6.25	2.60	0.307	—	—	—
December	6.25	2.60	0.307	6.00	3.53	0.416
Average	6.36	2.65	0.312	6.00	3.53	0.416
Buffalo:						
April	—	—	—	—	—	—
May	7.50	3.12	0.362	7.50	4.41	0.512
June	—	—	—	—	—	—
July	—	—	—	—	—	—
August	8.00	3.33	0.386	—	—	—
September	—	—	—	—	—	—
October	7.50	3.12	0.362	—	—	—
November	7.88	3.28	0.381	—	—	—
December	7.75	3.23	0.375	—	—	—
Average	7.77	3.24	0.376	7.50	4.41	0.512
Port Colborne to Montreal:						
April	7.00	2.92	0.768	—	—	—
May	—	—	—	—	—	—
June	—	—	—	—	—	—
July	—	—	—	—	—	—
August	—	—	—	—	—	—
September	—	—	—	—	—	—
October	—	—	—	—	—	—
November	—	—	—	—	—	—
December	—	—	—	—	—	—
Average	7.00	2.92	0.768	—	—	—

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, 1960

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	—	—	—
June	14.00	5.00	0.407	—	—	—
July	14.00	5.00	0.407	—	—	—
August	14.00	5.00	0.407	13.00	4.64	0.378
September	14.00	5.00	0.407	—	—	—
October	14.00	5.00	0.407	13.00	4.64	0.378
November	14.00	5.00	0.407	13.00	4.64	0.378
December	—	—	—	—	—	—
Average	14.00	5.00	0.407	13.00	4.64	0.378
Goderich and Georgian Bay ports:						
April	—	—	—	—	—	—
May	—	—	—	—	—	—
June	—	—	—	5.00	1.79	0.333
July	—	—	—	5.00	1.79	0.333
August	—	—	—	—	—	—
September	—	—	—	—	—	—
October	—	—	—	5.50	1.96	0.364
November	—	—	—	5.40	1.93	0.359
December	—	—	—	6.00	2.14	0.398
Average	—	—	—	5.48	1.96	0.364
Port Colborne:						
April	—	—	—	6.50	2.32	0.273
May	—	—	—	6.50	2.32	0.273
June	—	—	—	—	—	—
July	—	—	—	6.50	2.32	0.273
August	—	—	—	6.50	2.32	0.273
September	—	—	—	—	—	—
October	—	—	—	6.50	2.32	0.273
November	—	—	—	—	—	—
December	—	—	—	—	—	—
Average	—	—	—	6.50	2.32	0.273
Buffalo:						
April	—	—	—	—	—	—
May	—	—	—	—	—	—
June	—	—	—	6.00	2.86	0.332
July	—	—	—	6.00	2.86	0.332
August	—	—	—	—	—	—
September	—	—	—	—	—	—
October	—	—	—	—	—	—
November	—	—	—	—	—	—
December	—	—	—	—	—	—
Average	—	—	—	6.00	2.86	0.332
Port Colborne to Montreal:						
April	6.31	2.25	0.592	—	—	—
May	—	—	—	—	—	—
June	—	—	—	—	—	—
July	—	—	—	—	—	—
August	—	—	—	—	—	—
September	—	—	—	—	—	—
October	—	—	—	—	—	—
November	—	—	—	—	—	—
December	—	—	—	—	—	—
Average	6.31	2.25	0.592	—	—	—

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

SECTION III

OTHER CANADIAN CANALS

ST. PETER'S CANAL

TABLE 56. Location and Description

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

TABLE 57. Historical Summary, 1951-60

	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Vessel transit—Up	332	217	236	274	373	209	244	198	198	275
Down	380	261	269	296	411	221	231	199	184	280
Totals	712	478	505	570	784	430	475	387	382	555
Registered net tons—Up	10,145	8,226	7,004	7,433	11,712	5,712	8,300	4,973	4,173	8,138
Down	11,937	10,104	8,344	7,192	15,612	5,232	6,938	5,091	4,377	7,693
Totals	22,082	18,330	15,348	14,625	27,324	10,944	15,238	10,064	8,550	15,831
Cargo tons—Up	3,143	1,481	2,052	1,594	1,901	727	1,389	863	262	142
Down	5,035	2,321	1,789	1,637	4,882	973	3,252	848	557	581
Totals	8,178	3,802	3,841	3,231	6,783	1,700	4,641	1,711	819	723
Season of navigation:										
First vessel passage	April 23	April 26	April 7	April 10	April 2	April 19	April 22	March 31	April 20	April 4
Last vessel passage	Jan. 10/52	Jan. 7/53	Dec. 21	Jan. 10/55	Jan. 12/56	Dec. 21	Dec. 28	Dec. 19	Dec. 31	Dec. 22

TABLE 58. Traffic on the St. Peter's Canal by Kind and Registry of Vessel, 1960

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	11	2	13	2,539	3,447	15	—	13	4	17	3,201	3,342	71	—
Other countries	1	—	1	682	1,094	—	—	—	—	—	—	—	—	—
Totals	12	2	14	3,221	4,541	15	—	13	4	17	3,201	3,342	71	—
Pleasure craft:														
Canada	6	—	6	143	199	—	12	4	—	4	69	76	—	—
United States	4	—	4	62	67	—	—	6	—	6	123	174	—	10
Totals	10	—	10	205	266	—	12	10	—	10	192	250	—	10
All other types:														
Canada	222	29	251	4,712	6,637	127	19	149	101	250	4,251	6,152	510	12
United States	—	—	—	—	—	—	—	2	—	2	23	24	—	—
Other countries	—	—	—	—	—	—	—	1	—	1	26	26	—	—
Totals	222	29	251	4,712	6,637	127	19	152	101	253	4,300	6,202	510	12
Grand totals	244	31	275	8,138	11,444	142	31	175	105	280	7,693	9,794	581	22

TABLE 59. Number and Tonnage of Vessels Using the St. Peter's Canal by Origin and Destination, Registry and Rig, 1960

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	4	1,839	2,982	242	4,464	6,093	24	1,091	1,208	270	7,394	10,283
	United States	—	—	—	1	14	14	—	—	—	1	14	14
United States to Canada	United States	—	—	—	3	48	53	—	—	—	3	48	53
	Other Commonwealth	—	—	—	1	682	1,094	—	—	—	1	682	1,094
	Totals	4	1,839	2,982	247	5,208	7,254	24	1,091	1,208	275	8,138	11,444
Downbound:													
Canada to Canada	Canada	3	348	824	252	4,317	5,981	14	2,825	2,725	269	7,490	9,530
	United States	—	—	—	3	78	122	2	23	24	5	101	148
	Other Commonwealth	—	—	—	1	26	26	—	—	—	1	26	26
Canada to United States	Canada	—	—	—	2	31	40	—	—	—	2	31	40
	United States	—	—	—	3	45	52	—	—	—	3	45	52
	Totals	3	348	824	261	4,497	6,221	16	2,848	2,749	280	7,693	9,794
	Grand totals	7	2,187	3,806	508	9,705	13,475	40	3,939	3,957	555	15,831	21,238

TABLE 60. Commodities and Passengers Carried through the St. Peter's Canal by Country of Loading and Unloading, 1960

Commodity	Canada to Canada		Canada to United States		United States to Canada		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Products of agriculture	29	3	—	—	—	—	29	3
Animals and products	11	498	—	—	—	—	11	498
Manufactures and miscellaneous	102	80	—	—	—	—	102	80
Totals	142	581	—	—	—	—	142	581
Passengers	31	10	—	—	—	—	31	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				
	0.78	1	820	80	
			feet		

TABLE 62. Historical Summary, 1955-60

	1955	1956	1957	1958	1959	1960
Vessel transits—Up	251	1,665	660	616	625	609
Down	244	1,724	611	628	621	619
Totals	495	3,409	1,271	1,242	1,246	1,228
Registered net tons—Up	16,026	116,936	224,920	274,703	346,793	374,476
Down	15,078	132,164	186,507	262,409	264,839	389,968
Totals	31,104	249,100	411,427	537,112	631,632	764,446
Cargo tons—Up	6,112	33,103	233,908	364,044	476,318	606,339
Down	7,067	35,292	161,867	162,562	198,168	197,037
Totals	13,199	68,395	395,795	526,606	674,506	803,376
Seasons of navigation:						
First vessel passage	Sept. 2	April 9	Jan. 2 ¹	March 14	April 17	April 17
Last vessel passage	Jan. 27/56	Jan 10/57	Dec. 31	Dec. 25	Dec. 31	Jan. 16/61

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

TABLE 63. Traffic on the Canso Canal by Kind and Registry of Vessel, 1960

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	71	144	215	274,456	448,632	541,856	—	119	97	216	276,204	446,588	139,892	—
	United States	—	—	—	—	—	—	—	2	—	2	842	842	—	—
	United Kingdom	7	8	15	21,368	35,878	18,966	—	8	4	12	33,046	50,961	6,612	—
	Other countries	16	20	36	38,385	66,040	44,818	—	7	31	38	37,543	65,267	47,247	9
	Totals	94	172	266	334,209	550,550	605,640	—	136	132	268	347,635	563,658	193,751	9
Pleasure craft	Canada	2	—	2	55	76	—	—	3	—	3	67	82	—	—
	United States	—	—	—	—	—	—	—	1	—	1	165	245	—	—
	United Kingdom	1	—	1	86	163	—	—	—	—	—	—	—	—	—
	Totals	3	—	3	141	239	—	—	4	—	4	232	327	—	—
All other types	Canada	264	62	326	30,078	53,596	699	—	210	122	332	32,419	63,499	3,286	—
	United States	11	—	11	9,913	14,926	—	—	11	—	11	8,050	9,843	—	—
	United Kingdom	1	—	1	77	163	—	—	1	—	1	64	611	—	—
	Other countries	2	—	2	60	100	—	—	3	—	3	1,568	2,140	—	—
	Totals	278	62	340	40,128	68,785	699	—	225	122	347	42,101	76,093	3,286	—
	Grand totals	375	234	609	374,478	619,574	606,339	—	365	254	619	389,968	640,078	197,037	9

TABLE 64. Number and Tonnage of Vessels Using the Canso Canal by Origin and Destination, Registry and Rig, 1960

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	78	127,269	215,819	442	166,056	271,484	19	5,356	5,412	539	298,681	492,715
	United States	—	—	—	1	165	245	—	—	—	1	165	245
	United Kingdom	4	4,426	8,564	8	9,091	14,511	—	—	—	12	13,517	23,075
	Other Commonwealth	—	—	—	14	8,282	13,686	—	—	—	14	8,282	13,686
Canada to United States	Other Commonwealth	—	—	—	2	476	996	—	—	—	2	476	996
United States to Canada	Canada	1	3,101	4,947	3	2,807	4,642	—	—	—	4	5,908	9,589
	United States	2	3,800	3,800	2	314	558	—	—	—	4	4,114	4,358
	United Kingdom	—	—	—	1	2,475	3,809	—	—	—	1	2,475	3,809
	Other Commonwealth	2	3,414	6,634	15	16,661	28,370	—	—	—	17	20,075	35,004
United States to United States	United States	—	—	—	6	5,634	10,323	—	—	—	6	5,634	10,323
	United Kingdom	—	—	—	1	77	163	—	—	—	1	77	163
United Kingdom to Canada	United Kingdom	1	665	1,400	—	—	—	—	—	—	1	665	1,400
Other Commonwealth to Canada	United Kingdom	—	—	—	1	2,475	3,809	—	—	—	1	2,475	3,809
	Other Commonwealth	—	—	—	1	2,651	4,995	—	—	—	1	2,651	4,995
Other Europe to Canada	United Kingdom	—	—	—	1	2,322	3,948	—	—	—	1	2,322	3,948
	Other Commonwealth	1	1,487	2,550	1	1,157	1,998	—	—	—	2	2,644	4,548
Other countries to Canada	Other Commonwealth	—	—	—	2	4,317	6,911	—	—	—	2	4,317	6,911
	Totals	89	144,162	243,714	501	224,960	370,448	19	5,356	5,412	609	374,478	619,574
Downbound:													
Canada to Canada	Canada	74	117,635	198,820	442	176,425	290,443	18	5,987	6,110	534	300,047	495,373
	United Kingdom	3	2,025	4,169	9	31,021	46,792	—	—	—	12	33,046	50,961
	Other Commonwealth	2	2,928	4,786	16	15,287	26,813	—	—	—	18	18,215	31,599
Canada to United States	Canada	1	3,101	4,947	15	4,324	7,642	—	—	—	16	7,425	12,589
	United States	1	1,800	2,100	3	2,777	3,298	—	—	—	4	4,577	5,398
	United Kingdom	1	64	611	—	—	—	—	—	—	1	64	611
	Other Commonwealth	2	2,786	4,768	16	10,461	17,746	—	—	—	18	13,247	22,514
Canada to United Kingdom	Other Commonwealth	—	—	—	1	1,162	1,709	—	—	—	1	1,162	1,709
Canada to Other Commonwealth	Other Commonwealth	—	—	—	1	1,716	2,862	—	—	—	1	1,716	2,862
Canada to Other Europe	Canada	—	—	—	1	1,218	2,207	—	—	—	1	1,218	2,207
	Other Commonwealth	1	1,925	3,496	1	1,242	2,468	—	—	—	2	3,167	5,964
Canada to other countries	United States	—	—	—	1	169	249	2	842	842	3	1,011	1,091
	Other Commonwealth	1	1,604	2,759	—	—	—	—	—	—	1	1,604	2,759
Canada to United States	Canada	—	—	—	3	2,865	2,945	—	—	—	3	2,865	2,945
United States to United States	United States	—	—	—	4	604	1,496	—	—	—	4	604	1,496
	Totals	86	133,868	226,456	513	249,271	406,670	20	6,829	6,952	619	389,968	640,078
	Grand totals	175	278,030	470,170	1,014	474,231	777,118	39	12,185	12,364	1,228	764,446	1,259,652

TABLE 65. Commodities and Passengers Carried through the Canso Canal by Country of Loading and Unloading, 1960

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
Flour	770	4,916	-	-	-	-	-	-	-	-	770	4,916
Potatoes, other than sweet	-	1,209	-	9,727	-	-	-	-	-	-	-	10,936
Products of agriculture, n.o.s.	-	400	-	-	-	-	-	-	-	-	-	400
Fish	1,055	5,244	-	-	-	-	-	-	-	-	1,055	5,244
Fish and sea animal oil	800	-	88	6,116	-	-	-	-	-	-	888	6,116
Coal	10,678	2,471	-	-	-	-	-	-	-	-	10,678	2,471
Gypsum rock	39,935	-	-	-	-	-	-	-	-	-	39,935	-
Aluminum ores and concentrates	-	-	-	-	-	-	-	-	6,261	-	6,261	-
Products of mines, n.o.s.	9,315	-	-	-	-	-	-	-	-	-	9,315	-
Pulpwood	1,440	5,320	-	-	-	7,993	-	-	-	-	1,440	13,313
Products of forests, n.o.s.	3	-	-	350	-	-	-	-	-	-	3	350
Gasoline	201,387	68,661	-	-	-	-	6,046	-	-	-	207,433	68,661
Fuel, road and petroleum residual	269,552	4,406	-	-	-	-	4,254	-	-	-	273,806	4,406
Petroleum products, refined	-	2,495	-	-	-	-	-	-	-	-	-	2,495
Vegetable and nuts oil	390	-	-	-	-	-	-	-	-	-	390	-
Rubber goods	1,175	-	-	-	-	-	-	-	-	-	1,175	-
Chemicals	-	-	-	2,435	-	-	-	-	-	-	-	2,435
Sodium products	-	-	-	-	-	-	6,325	-	358	-	6,683	-
Fertilizers	-	-	-	-	-	-	7,827	-	4,000	-	11,827	-
Rails and railway track material	-	-	-	-	-	-	5,300	-	-	-	5,300	-
Cement	-	53,938	-	-	-	-	-	-	-	-	-	53,938
Woodpulp	-	-	-	-	-	13,550	-	-	-	-	-	13,550
Food products, n.o.s.	-	356	-	-	-	-	-	-	-	-	-	356
Sugar	-	-	-	-	-	-	-	-	9,780	-	9,780	-
Animal feed	300	-	-	-	-	-	-	-	-	-	300	-
Manufactures and miscellaneous	17,355	4,648	-	2,000	-	800	-	-	1,945	-	19,300	7,448
Totals	554,155	154,066	88	20,628	-	22,343	29,752	-	22,344	-	606,339	197,037
Passengers	-	9	-	-	-	-	-	-	-	-	-	9

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, 1951-60

	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Vessel transits - Up	359	307	330	356	354	401	379	343	415	395
Down	360	307	325	353	347	307	382	345	407	401
Totals	719	614	655	709	701	708	761	688	822	796
Registered net tons - Up	51,405	44,318	48,917	55,644	50,241	56,166	61,634	54,390	60,918	62,036
Down	51,180	44,548	48,858	55,919	49,767	45,484	61,606	54,563	61,664	61,991
Totals	102,585	88,866	97,775	111,563	100,008	101,650	123,240	108,953	122,582	124,027
Cargo tons - Up	78,547	67,611	69,547	85,165	70,681	76,613	85,429	81,557	78,758	61,364
Down	19,587	21,362	24,832	24,273	26,449	22,350	26,937	26,574	30,244	25,335
Totals	98,134	88,973	94,379	109,438	97,130	98,963	112,366	108,131	109,002	106,699
Season of navigation:										
First vessel passage	April 18	April 19	April 15	April 17	April 23	April 16	April 17	April 17	April 15	April 4
Last vessel passage	Nov. 29	Nov. 22	Nov. 29	Dec. 2	Dec. 1	Nov. 30	Dec. 1	Nov. 29	Dec. 5	Nov. 27

TABLE 68. Traffic on the Richelieu River Canal by Kind and Registry of Vessel, 1960

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	57	226	283	57,866	67,481	81,364	-	112	167	279	57,327	66,787	24,335	-
	United Kingdom	8	-	8	1,394	3,114	-	-	-	8	8	1,394	3,114	1,000	-
	Totals	65	226	291	59,260	70,595	81,364	-	112	175	287	58,721	69,901	25,335	-
Pleasure craft	Canada	27	-	27	631	868	-	-	30	-	30	787	911	-	-
	United States	18	-	18	369	478	-	5	24	-	24	481	657	-	-
	Totals	45	-	45	1,000	1,346	-	5	54	-	54	1,268	1,568	-	-
All other types	Canada	59	-	59	1,776	3,643	-	-	60	-	60	2,002	3,882	-	-
	Grand totals ..	169	226	395	62,036	75,584	81,364	5	226	175	401	61,991	75,351	25,335	-

TABLE 69. Number and Tonnage of Vessels Using the Richelieu River Canal by Origin and Destination, Registry and Rig, 1960

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	-	-	-	118	7,910	12,964	108	25,552	25,585	226	33,462	38,549
	United Kingdom	-	-	-	8	1,394	3,114	-	-	-	8	1,394	3,114
Canada to United States	Canada	-	-	-	142	26,607	33,200	-	-	-	142	26,607	33,200
	United States	-	-	-	18	369	478	-	-	-	18	369	478
United States to Canada	Canada	-	-	-	1	204	243	-	-	-	1	204	243
	Totals	-	-	-	287	36,484	49,999	108	25,552	25,585	395	62,036	75,584
Downbound:													
Canada to Canada	Canada	1	69	197	117	7,950	12,553	107	25,416	25,449	225	33,435	38,199
	United States	-	-	-	2	30	40	-	-	-	2	30	40
	United Kingdom	-	-	-	8	1,394	3,114	-	-	-	8	1,394	3,114
Canada to other countries	Canada	-	-	-	1	261	488	-	-	-	1	261	488
	United States to Canada	Canada	-	-	-	142	26,406	32,872	-	-	-	142	26,406	32,872
United States to other countries	United States	-	-	-	21	437	596	-	-	-	21	437	596
	United States	-	-	-	1	14	21	-	-	-	1	14	21
Other Commonwealth to Canada	Canada	-	-	-	1	14	21	-	-	-	1	14	21
	Totals	1	69	197	293	36,506	49,705	107	25,416	25,449	401	61,991	75,351
Grand totals		1	69	197	580	72,990	99,704	215	50,968	51,034	796	124,027	150,835

TABLE 70. Commodities and Passengers Carried through the Richelieu River Canal by Country of Loading and Unloading, 1960

Commodity	Canada to Canada		Canada to United States		United States to Canada		Canada to other countries		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Bituminous coal	-	-	-	-	-	11,233	-	-	-	11,233
Clay and bentonite	-	-	-	-	-	1,610	-	-	-	1,610
Sulphur	2,400	-	-	-	-	-	-	-	2,400	-
Sodium (soda) products	4,650	-	-	-	-	-	-	-	4,650	-
Fertilizers	46,475	-	-	-	-	215	-	-	46,475	215
Ammunition and explosives	25	7,245	-	-	-	-	-	120	25	7,365
Newsprint paper	-	-	27,814	-	-	-	-	-	27,814	-
Manufactures and miscellaneous	-	-	-	-	-	4,912	-	-	-	4,912
Totals	53,550	7,245	27,814	-	-	17,970	-	120	81,364	25,335
Passengers	-	-	5	-	-	-	-	-	5	-

OTTAWA RIVER CANALS

TABLE 71. Location and Description

		Length of channel miles	Number	Locks		
				Minimum dimensions		
				Length	Width	Depth
				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, 1951-60

	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Vessel transits - Up	547	476	579	461	477	779	804	466	846	667
Down	555	488	576	465	475	779	606	462	821	683
Totals	1,102	966	1,155	926	952	1,558	1,610	928	1,667	1,350
Registered net tons - Up	160,689	116,622	142,492	111,346	117,699	166,152	209,889	116,191	201,781	161,979
Down	162,175	118,374	142,426	111,994	117,955	166,530	208,653	115,871	196,402	166,089
Totals	322,864	234,996	284,920	223,340	235,654	332,682	418,742	232,062	398,183	328,068
Cargo tons - Up	1,250	430	735	445	425	-	180	-	43	100
Down	275,921	200,721	242,297	190,365	206,100	283,500	356,460	189,960	327,600	276,100
Totals	277,171	201,151	243,032	190,810	206,525	283,500	356,640	189,960	327,643	276,200
Season of navigation:										
First vessel passage	April 24	May 1	April 15	April 30	April 26	April 25	April 17	April 23	May 2	May 3
Last vessel passage	Nov. 26	Nov. 12	Nov. 20	Oct. 14	Nov. 1	Nov. 23	Nov. 30	Nov. 26	Nov. 19	Nov. 19

TABLE 73. Traffic on the Ottawa River Canals by Kind and Registry of Vessel, 1960

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	311	1	312	152,340	152,340	100	-	9	309	316	155,813	155,813	278,100	-
Pleasure craft	Canada	4	-	4	162	231	-	4	6	-	6	115	145	-	13
	Totals	315	1	316	152,502	152,571	100	4	15	309	324	155,928	155,958	278,100	13
All other types	Canada	351	-	351	9,477	22,815	-	-	359	-	359	10,161	23,738	-	4
	Grand totals	666	1	667	161,979	175,386	100	4	374	309	683	166,089	179,696	278,100	17

TABLE 74. Number and Tonnage of Vessels using the Ottawa River Canals by Origin and Destination, Registry and Reg. 1960

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	355	9,639	23,046	312	152,340	152,340	667	161,979	175,386
Downbound:										
Canada to Canada	Canada	365	10,276	23,883	318	155,813	155,813	683	166,089	179,696
	Totals	720	19,915	46,929	630	308,153	308,153	1,350	328,068	355,082

TABLE 75. Commodities and Passengers Carried through the Ottawa River Canals by Country of Loading and Unloading, 1960

Commodity	Canada to Canada		Canada to United States		United States to Canada		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Gravel and sand	-	278,100	-	-	-	-	-	278,100
Manufactures and miscellaneous	100	-	-	-	-	-	100	-
Totals	100	278,100	-	-	-	-	100	278,100
Passengers	4	17	-	-	-	-	4	17

RIDEAU CANAL

TABLE 76. Location and Description

	From	To	Length of channel	Locks				
				Number	Minimum dimensions			
					Length	Width	Depth	
			miles					
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 1951 - 60

	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Vessel transits - Up	88	97	130	94	72	64	149	32	32	39
Down	87	86	133	86	66	56	145	45	37	55
Totals	175	183	263	180	138	120	294	77	69	94
Registered net tons - Up	2,691	3,390	3,751	4,083	2,308	2,035	5,630	882	1,081	1,497
Down	2,669	3,129	3,770	3,654	2,180	2,006	5,587	1,515	1,262	1,629
Totals	5,360	6,519	7,521	7,737	4,488	4,041	11,217	2,397	2,343	3,126
Cargo tons - Up	315	382	849	357	248	205	154	37	53	72
Down	883	539	882	1,133	165	194	5,690	39	5	-
Totals	1,198	921	1,531	1,490	413	399	5,844	76	58	72
Season of navigation:										
First vessel passage	May 1	May 1	May 1	April 30	May 2	May 1	May 1	May 3	May 9	May 18
Last vessel passage	Nov. 22	Nov. 25	Nov. 30	Nov. 18	Nov. 21	Nov. 20	Nov. 18	Oct. 21	Nov. 2	Nov. 1

TABLE 78. Traffic on the Rideau Canal by Kind and Registry of Vessel, 1960

Kind of vessel	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 passenger
		In ballast	With cargo	Total					In ballast	With cargo	Total				
Cargo vessel	Canada	3	6	9	573	575	72	-	5	-	5	386	398	-	4
Pleasure craft	Canada	18	-	18	650	890	-	71	26	-	26	749	948	-	94
	United States	5	-	5	82	106	-	20	14	-	14	194	225	-	64
	Totals	23	-	23	732	996	-	91	40	-	40	943	1,173	-	158
All other types	Canada	7	-	7	192	301	-	13	10	-	10	300	448	-	16
	Grand totals	33	6	39	1,497	1,872	72	104	55	-	55	1,629	2,019	-	178

TABLE 79. Number and Tonnage of Vessels Using the Rideau Canal by Origin and Destination, Registry and Rig, 1960

Origin and destination	Country of registry	Steam			Motor			Other			Total		
		Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Upbound:													
Canada to Canada	Canada	—	—	—	25	842	1,191	9	573	575	34	1,415	1,766
	United States	—	—	—	5	82	106	—	—	—	5	82	106
	Totals	—	—	—	30	924	1,297	9	573	575	39	1,497	1,872
Downbound:													
Canada to Canada	Canada	—	—	—	36	1,047	1,406	4	373	373	40	1,420	1,779
	United States	—	—	—	12	174	202	—	—	—	12	174	202
United States to Canada	Canada	—	—	—	1	15	15	—	—	—	1	15	15
	United States	—	—	—	2	20	23	—	—	—	2	20	23
	Totals	—	—	—	51	1,256	1,646	4	373	373	55	1,629	2,019
	Grand totals	—	—	—	81	2,180	2,943	13	946	948	94	3,126	3,891

TABLE 80. Commodities and Passengers Carried through the Rideau Canal by Country of Loading and Unloading, 1960

Commodity	Canada to Canada		United States to Canada		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Lumber, shingles and lath	49	—	—	—	49	—
Manufactures and miscellaneous	23	—	—	—	23	—
Totals	72	—	—	—	72	—
Passengers ¹	104	174	—	4	104	176

¹ Exclusive of 17,315 passengers on sightseeing pleasure boat cruises and 120,208 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		feet	
			7.53	—	—	8.5

TABLE 82. Historical Summary 1951-60

	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Vessel transits—Up	87	76	63	73	39	115	154	152	160	113
Down	7	18	21	31	14	75	78	100	94	81
Totals	74	94	84	104	53	190	232	252	254	194
Registered net tons—Up	33,877	32,567	30,775	34,803	19,464	24,675	38,434	34,009	31,126	17,171
Down	2,165	1,233	1,640	5,234	1,866	1,997	2,569	5,327	5,333	2,012
Totals	36,042	33,800	32,415	40,037	21,330	26,672	41,003	39,336	36,459	19,183
Cargo tons—Up	975	380	572	72	562	—	600	383	90	130
Down	2,358	—	104	200	105	—	190	—	—	—
Totals	3,333	380	676	272	667	—	790	383	90	130
Season of navigation:										
First vessel passage	April 18	April 26	April 16	April 10	April 8	May 26	April 13	April 22	April 17	April 19
Last vessel passage	Nov. 20	Nov. 8	Dec. 9	Nov. 15	Nov. 17	Nov. 29	Dec. 8	Dec. 4	Nov. 27	Dec. 1

TABLE 83. Traffic on the Murray Canal, by Kind and Registry of Vessel, 1960

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	28	3	31	14,962	27,787	130	-	2	-	2	231	584	-	-
Pleasure craft:														
Canada	42	-	42	936	1,160	-	-	42	-	42	842	1,038	-	-
United States	24	-	24	632	782	-	4	23	-	23	575	743	-	-
United Kingdom	-	-	-	-	-	-	-	1	-	1	28	30	-	-
Other countries	3	-	3	93	129	-	-	2	-	2	63	89	-	-
Totals	69	-	69	1,661	2,071	-	4	68	-	68	1,508	1,900	-	-
All other types:														
Canada	13	-	13	548	771	-	-	11	-	11	273	408	-	-
Grand totals	110	3	113	17,171	30,629	130	4	81	-	81	2,012	2,892	-	-

TABLE 84. Number and Tonnage of Vessels Using the Murray Canal by Origin and Destination, Registry and Rig 1960

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	-	-	-	43	1,294	1,753	20	2,019	2,067	63	3,313	3,820
	United States	-	-	-	2	103	120	3	61	67	5	164	187
	Other Commonwealth	-	-	-	3	93	129	-	-	-	3	93	129
Canada to United States	Canada	23	13,133	25,898	-	-	-	-	-	-	23	13,133	25,898
	United States	-	-	-	8	216	261	8	173	217	16	389	478
United States to Canada	United States	-	-	-	1	49	73	-	-	-	1	49	73
United States to United States	United States	-	-	-	-	-	-	2	30	44	2	30	44
Totals		23	13,133	25,898	57	1,755	2,336	33	2,283	2,395	113	17,171	30,629
Downbound:													
Canada to Canada	Canada	1	219	564	40	868	1,148	14	259	318	55	1,346	2,030
	United States	-	-	-	3	159	188	3	56	63	6	215	251
	United Kingdom	-	-	-	1	28	30	-	-	-	1	28	30
	Other Commonwealth	-	-	-	2	63	89	-	-	-	2	63	89
United States to Canada	United States	-	-	-	6	100	163	9	218	287	15	318	450
United States to United States	United States	-	-	-	1	12	12	1	30	30	2	42	42
Totals		1	219	564	53	1,230	1,630	27	563	696	81	2,012	2,892
Grand totals		24	13,352	26,462	110	2,985	3,966	60	2,846	3,093	194	19,183	33,521

TABLE 85. Commodities and Passengers Carried through the Murray Canal by Country of Loading and Unloading, 1960

Commodity	Canada to Canada		Canada to United States		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Iron and steel, n.o.s.	100	-	-	-	100	-
Manufactured iron and steel	30	-	-	-	30	-
Totals	130	-	-	-	130	-
Passengers	-	-	4	-	4	-

TRENT CANAL

TABLE 86. Location and Description

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

TABLE 87. Historical Summary 1951-60

	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Vessel transits — Up	22	32	33	59	30	34	31	43	31	24
Down	31	40	38	71	36	47	41	45	37	23
Totals	53	72	71	130	66	81	72	88	68	47
Registered net tons — Up	392	427	498	771	455	544	480	631	499	318
Down	486	543	597	927	561	785	1,768	4,159	571	333
Totals	878	970	1,095	1,698	1,016	1,329	2,248	4,790	1,070	651
Cargo tons — Up	132	62	131	45	40	41	11	40	34	17
Down	222	73	108	125	62	248	63	35	49	47
Totals	354	135	239	170	102	289	74	75	83	64
Season of navigation:										
First vessel passage	May 23	May 12	May 13	May 5	May 11	May 25	May 16	May 12	May 15	Jun. 10
Last vessel passage	Nov. 13	Nov. 12	Nov. 9	Nov. 9	Nov. 30	Nov. 30	Oct. 31	Oct. 31	Oct. 22	Nov. 23

TABLE 88. Traffic on the Trent Canal by Kind and Registry of Vessel, 1960

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	5	10	15	166	243	17	20	4	11	15	212	269	47	52
Pleasure craft	Canada	8	—	8	137	155	—	40	6	—	6	102	110	—	36
	United States	—	—	—	—	—	—	—	1	—	1	10	13	—	2
	Totals	8	—	8	137	155	—	40	7	—	7	112	123	—	38
All other types	Canada	1	—	1	15	18	—	6	1	—	1	9	11	—	3
	Grand totals	14	10	24	318	416	17	66	12	11	23	333	403	47	83

TABLE 89. Number and Tonnage of Vessels Using the Trent Canal by Origin and Destination, Registry and Rig, 1960

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	—	—	—	24	318	416	24	318	416
	Totals	—	—	—	24	318	416	24	318	416
Downbound:										
Canada to Canada	Canada	1	47	62	21	276	328	22	323	390
	United States	—	—	—	1	10	13	1	10	13
	Totals	1	47	62	22	286	341	23	333	403
	Grand totals	1	47	62	46	604	757	47	651	819

TABLE 90. Commodities and Passengers Carried through the Trent Canal by Country of Loading and Unloading, 1960

Commodity	Canada to Canada		United States to Canada		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Gasoline..... tons	8	19	—	—	8	19
Fuel, road and petroleum residual..... "	4	15	—	—	4	15
Lubricating oil and greases..... "	5	13	—	—	5	13
Totals.....	17	47	—	—	17	47
Passengers ¹ No.	66	93	—	—	66	93

¹ Excluding 255,702 passengers carried in small boats.

ST. ANDREW'S CANAL

TABLE 91. Location and Description

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

TABLE 92. Historical Summary 1951-60

	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Vessel transits—Up.....	346	332	240	198	175	179	181	178	200	151
Down.....	346	330	242	198	178	180	181	178	198	150
Totals.....	692	662	482	396	353	359	362	356	398	301
Registered net tons—Up.....	33,188	26,707	25,137	14,085	19,289	15,317	13,950	12,486	12,251	8,296
Down.....	33,196	26,393	25,086	13,998	19,079	15,321	14,102	12,413	11,811	8,171
Totals.....	66,384	53,100	50,223	28,083	38,368	30,638	28,052	24,899	24,062	16,467
Cargo tons—Up.....	10,421	11,620	13,127	2,429	5,679	5,610	2,852	2,642	2,035	1,449
Down.....	6,072	4,583	2,688	3,601	2,433	2,472	2,617	2,028	1,898	2,650
Totals.....	16,493	16,203	15,815	6,030	8,112	8,082	5,469	4,670	3,933	4,099
Season of navigation:										
First vessel passage.....	June 11	May 13	May 21	May 27	June 30	June 28	May 20	May 13	May 14	June 4
Last vessel passage.....	Nov. 1	Nov. 2	Nov. 3	Nov. 3	Oct. 31	Nov. 2	Nov. 2	Oct. 31	Oct. 31	Nov. 1

TABLE 93. Traffic on the St. Andrew's Canal by Kind and Registry of Vessel, 1960

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.....	13	87	100	7,309	10,747	1,449	—	3	96	99	7,184	10,563	2,650	30
Pleasure craft:														
Canada.....	50	—	50	916	1,094	—	237	50	—	50	916	1,094	—	345
All other types:														
Canada.....	1	—	1	71	379	—	—	1	—	1	71	379	—	—
Grand totals.....	64	87	151	8,296	12,220	1,449	237	54	96	150	8,171	12,036	2,650	275

TABLE 94. Number and Tonnage of Vessels Using the St. Andrew's Canal by Origin and Destination, Registry and Rig, 1960

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	-	-	-	151	8,296	12,220	-	-	-	151	8,296	12,220
Downbound:													
Canada to Canada	Canada	-	-	-	150	8,171	12,036	-	-	-	150	8,171	12,036
Grand totals		-	-	-	301	16,467	24,256	-	-	-	301	16,467	24,256

TABLE 95. Commodities and Passengers Carried through the St. Andrew's Canal by Country of Loading and Unloading, 1960

Commodity	Canada to Canada		Commodity	Canada to Canada	
	Upbound	Downbound		Upbound	Downbound
Flour	-	143	Cement	-	340
Products of agriculture	23	50	Building materials	-	67
Fish	1,220	28	Food products	3	559
Animal products, others	-	5	Containers, empty	154	181
Lumber, shingles and lath	-	88	Manufactures and miscellaneous, n.o.s.	31	265
Products of forests, n.o.s.	-	3	Totals	1,449	2,650
Gasoline	18	921	Passengers ¹	No.	275

¹ Excluding 5,346 passengers carried in small boats.





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