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Public Finance and Transportation Division
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CANAL STATISTICS

1959

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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

1959

Source and Treatment of Data

Statistics presented in this report are collected through the cooperation 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.

Commencing with the opening of navigation in 1959 tolls were charged for the use of the St. Lawrence canals, excluding the Lachine and Cornwall canals, and for the Welland Canal. No toll was 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.

Although this publication has undergone a major revision, 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.

For all Seaway canals, tables are presented for both vessel and cargo data which make 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 1959 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. Although statistics covering traffic on the St. Lawrence canals include traffic through the Lachine and Cornwall sections, additional tables (41-46) have been provided to show traffic using these two canals separately.

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 1958 report and is an expansion of Table 2 as shown in 1954 and earlier annual reports. However, data on traffic through the United States locks at Sault Ste. Marie are not included

so that this table is not entirely comparable with reports prior to 1955. Thus, traffic passing first through the United States Sault Ste. Marie Canal and then finally through the Welland Canal is now considered under Welland Canal only since for reporting and coding purposes the Bureau has no record of such traffic until it enters the Welland Canal. In other words, "canal networks" refers only to Canadian canal systems.

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

For each of the non-seaway canals, tables are presented showing location, a ten year traffic summary and analyses of the 1959 traffic. These tables compare with those of previous years.

Review of 1959 Traffic

With the St. Lawrence Seaway in full operation the volume of freight shipped through Canadian canals in 1959 rose to 51,076,132 short tons from 35,096,587 in 1958, an increase of 45.5 per cent over the previous year and almost 28 per cent above the previous high of 40,016,565 tons reached in 1956. All major canals reported increases. Freight traffic through the St. Lawrence Canals almost doubled, rising to 21,221,280 tons from 11,762,100 in 1958 while traffic through the Welland Canal increased 29 per cent to 27,506,024 tons from 21,274,194. Traffic through the Canadian canal at Sault Ste. Marie totalled 1,232,694 tons compared with 1,228,661 in 1958. Other canals showing increased freight traffic were the Canso, the Ottawa and the Richelieu.

Iron ore and grain were the main factors in the increased freight traffic through Canadian canals. Iron ore more than doubled, rising to 13,574,564 tons from 5,819,593 in 1958. Wheat was up to 7,638,030 tons from 6,515,540, corn to 2,154,181 tons from 688,345 and oats to 1,575,581 tons from 681,295. Total agricultural products were up 4.6 million tons to 16,580,215 and total mine products rose 8.5 million tons to 22,446,630. The manufactures and miscellaneous group, including domestic package freight, increased 2.7 million tons to 10,819,922. The major increases in this last group were fuel oils which rose to 2,464,311 tons from 1,703,245 and iron and steel, n.o.s. up to 641,038 tons from 20,526. Decreases were relatively small. Crude petroleum declined to 323,064 tons from 578,546 and pulpwood to 681,688 tons from 994,261.

Vessel passages numbered 30,559 in 1959 as against 27,451 in the previous year, an increase of 11 per cent. Vessels of Canadian registry were down 400 to 21,363 but their registered net tonnage increased by more than 2 million to 28,706,462 tons. Vessels of United States registry increased to 4,819 from 3,216 with net tonnage up 1.2 million to 4,233,936 tons. United Kingdom vessels were up to 1,125, from 302 with an increase in net tonnage of 2.9 million to 3,130,140 tons while other foreign vessels rose to 3,252 from 2,170, their net tonnage rising 5.5 million to 7,321,449 tons.

In 1959 Canadian vessels carried 35,369,216 tons or 69.2 per cent of all cargo through Canadian canals, United States vessels carried 3,472,522 tons or 6.8 per cent, United Kingdom vessels 3,675,814 tons or 7.2 per cent, while other foreign vessels carried 8,558,580 tons or 16.8 per cent. The proportion of cargo carried in Canadian vessels was 17.3 per cent below the previous year and that carried in United States vessels showed a slight decrease, while the proportion carried in vessels of the United Kingdom and other countries rose to 24 per cent from 6.1.

With the completion of the Seaway the number of vessel transits through the St. Lawrence Canals to and from points outside the St. Lawrence-Great Lakes system nearly doubled. Upbound vessels from outside points totalled 1,250 in 1959 as against 735 in 1958 while downbound vessels rose to 1,332 from 599. As in previous years vessels of German registry made up the largest single group in both upbound and downbound traffic. Cargo carried into

the St. Lawrence system from outside points more than trebled in 1959, rising to 2,181,714 tons from 602,554, in 1958. The reverse flow of cargo to outside points increased to 3,857,461 tons from 572,607. Of the total of 6,039,175 tons, up and down, vessels of Norwegian registry carried 1,306,548 tons or 21.6 per cent, vessels of United Kingdom registry carried 1,215,655 tons or 20 per cent, followed by German vessels carrying 889,239 tons or almost 15 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.

Table 49 presents the combined traffic of the Canadian and United States canals at Sault Ste. Marie. The volume of freight transported through the combined system dropped to 70,906,331 tons in 1959 from 76,681,513 in the previous year. Iron ore was the major factor, declining 6.9 million tons to 47,214,492. Vessel passages increased to 19,062 from 16,633 but the registered net tonnage dropped

to 59,506,911 tons from 63,776,106. The total number of passengers using the combined system increased to 369,886 from 269,714.

Total passenger traffic through all Canadian canals increased to 207,968 from 145,562 in 1958. Pleasure craft lockages rose to 110,143 from 86,738.

The 1959 season of navigation varied within a few days of the 1958 season for each of the three major canals. The Sault Ste. Marie Canal was in use 244 days or four less than in 1958 and the Welland Canal 254 days or eight less than in the previous year. The St. Lawrence Canals opened eleven days later than in 1958 and closed sixteen days earlier giving a season of only 223 days as against 250 in 1958. The Canso Canal was in use 259 days as compared with 287 days in 1958. Of the smaller canals only the Richelieu and Rideau remained in operation for a longer period than in 1958.

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 1959. 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 50 million in 1959. The quantity

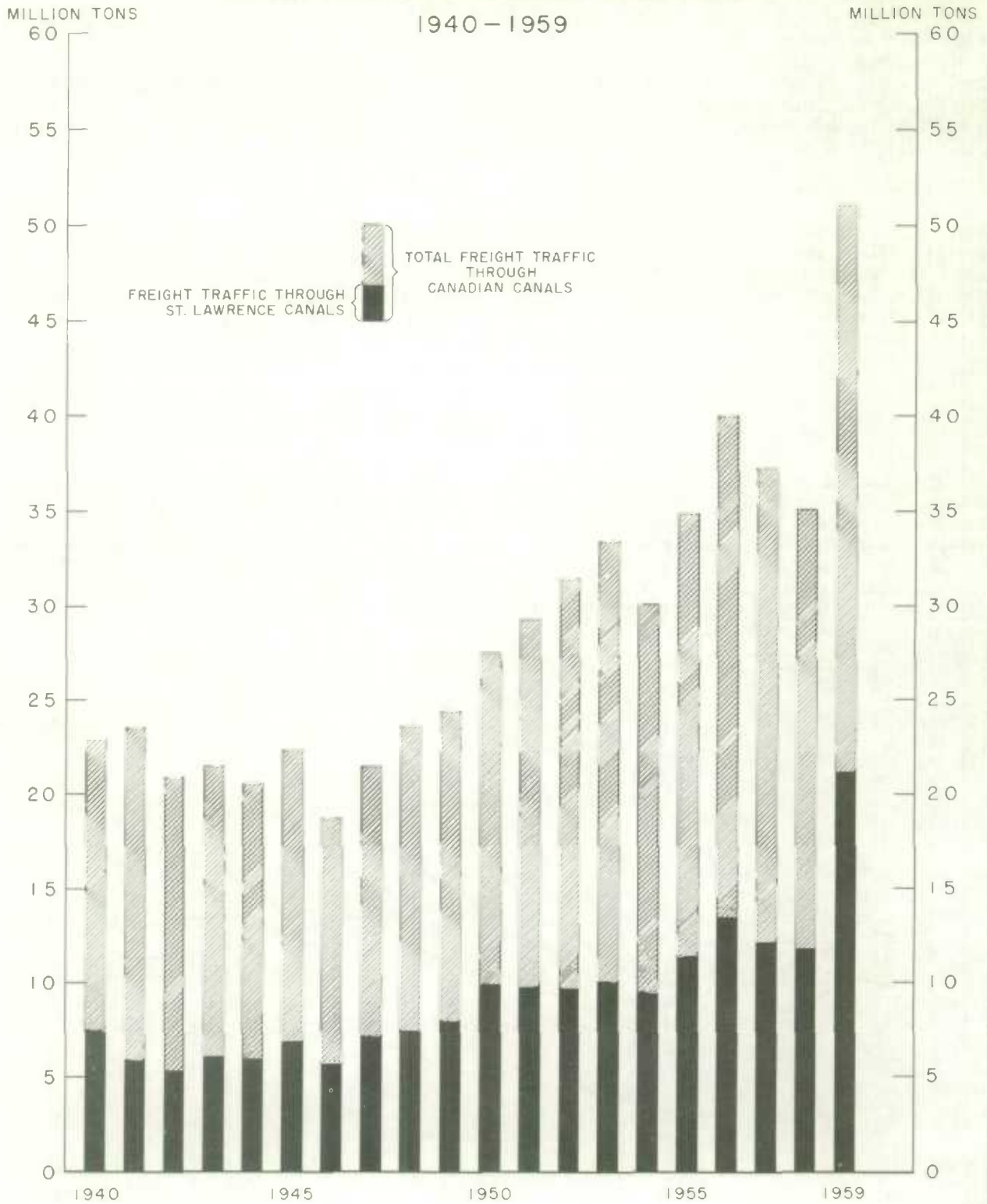
of shipments through the St. Lawrence Canals tends to follow the pattern of traffic for all canals.

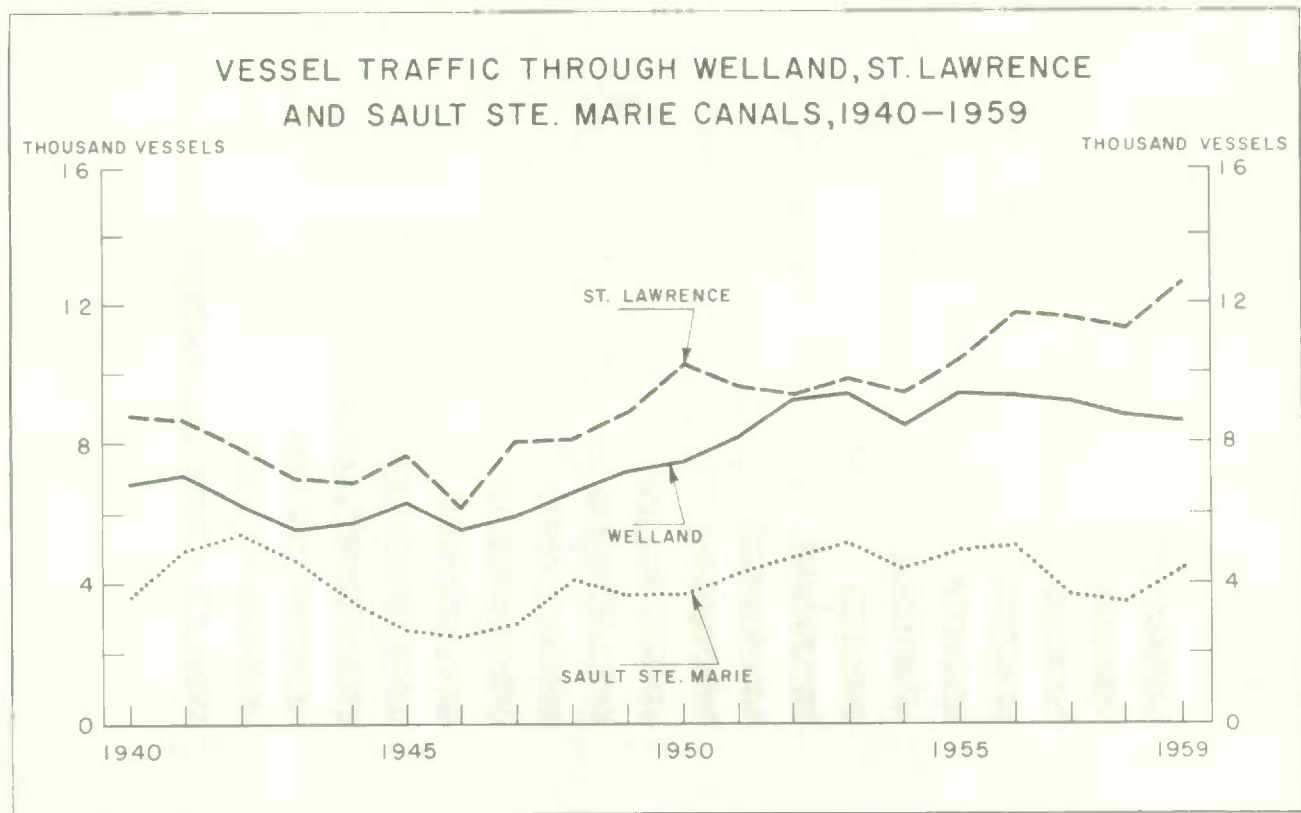
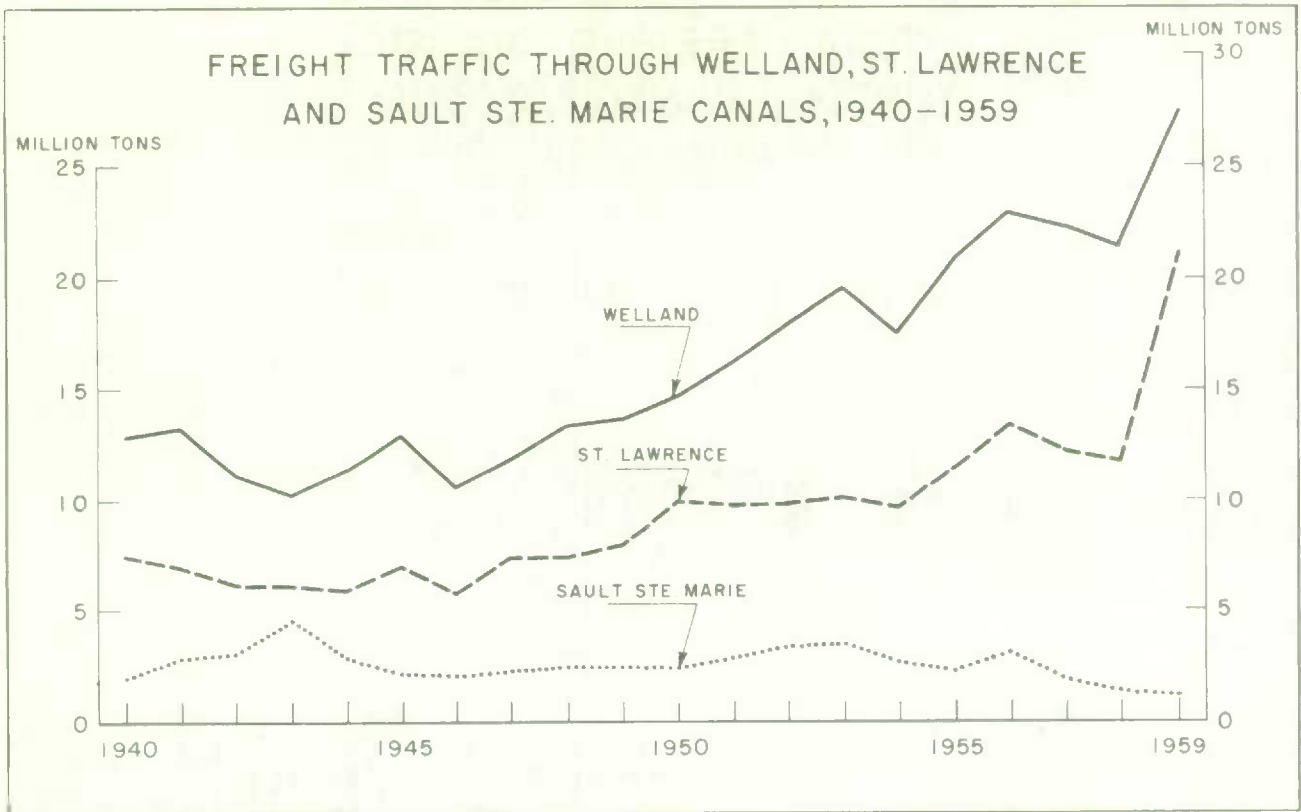
The two charts on page 11 show the trend of freight and vessel traffic through the three major canal systems, the Welland, St. Lawrence and Sault Ste. Marie Canals from 1940 to 1959.

December 6, 1960.

TOTAL FREIGHT TRAFFIC THROUGH CANADIAN CANALS

1940 - 1959





SECTION I

SUMMARY FOR ALL CANALS

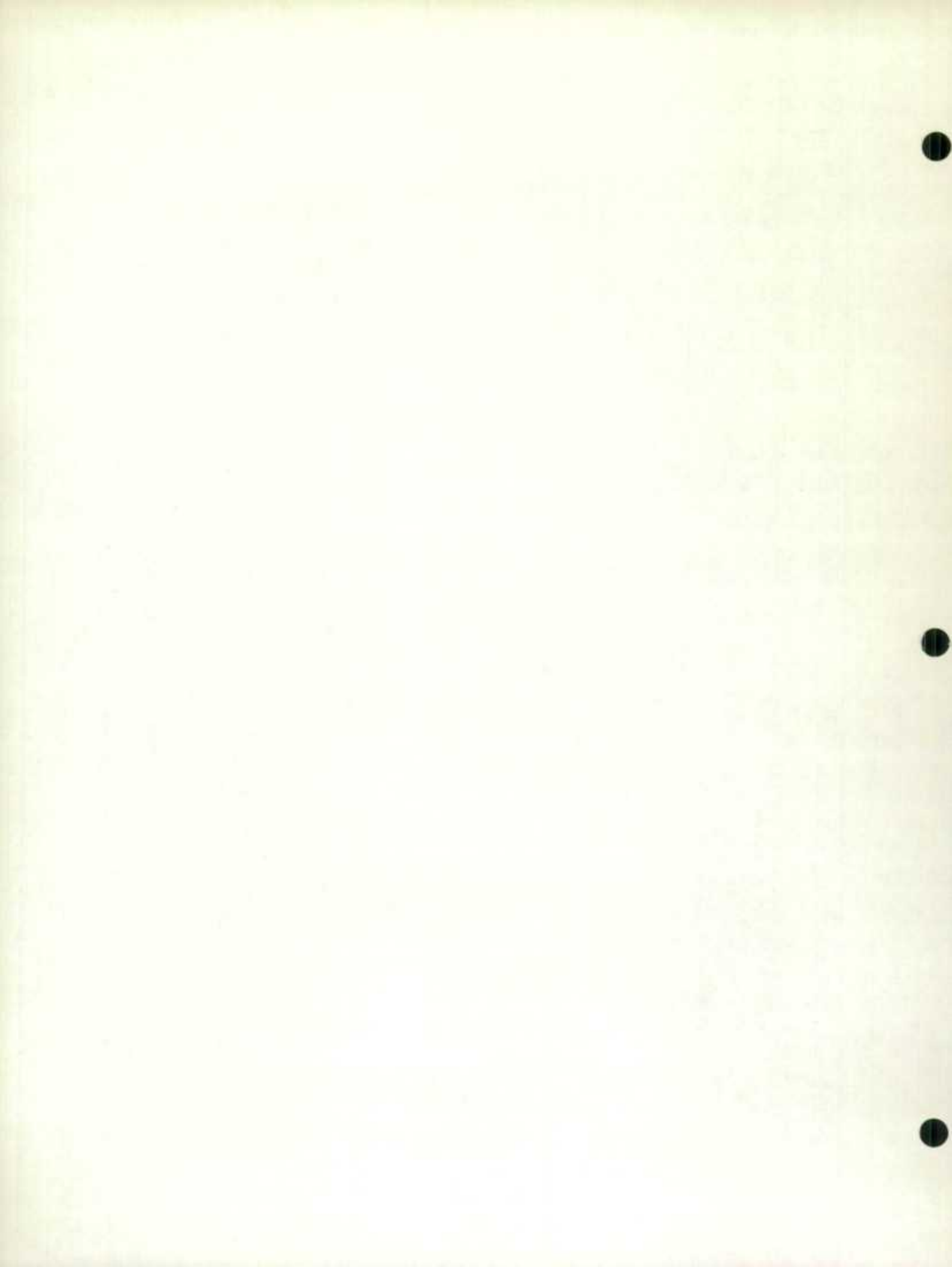
TABLE 1. Total Traffic through Canadian Canals, 1958 and 1959

No.	Registry	St. Lawrence	Welland	Sault Ste. Marie	St. Peter's	Canso
Number of vessels, passengers and pleasure craft lockages						
1	Canadian vessels	9,589	5,158	2,025	354	1,102
2	United States vessels	690	1,567	2,359	26	49
3	United Kingdom vessels	606	468	24	2	25
4	Other foreign vessels	1,691	1,456	20	—	70
5	Total vessels	12,576	8,649	4,428	382	1,246
6	Passengers	8,486	4,556	193,721	42	19
7	Pleasure craft lockages	728	120	424	64	1,091
Registered net tonnage of vessels						
8	Canadian vessels	10,714,333	14,706,462	2,192,327	7,956	503,803
9	United States vessels	976,118	2,772,711	454,256	421	27,590
10	United Kingdom vessels	1,616,708	1,479,891	19,344	173	14,024
11	Other foreign vessels	4,055,239	3,157,872	21,845	—	86,215
12	Total vessels	17,362,398	22,116,936	2,687,772	8,550	631,632
Cargo tons						
Agricultural products:						
13	Wheat	3,587,412	3,955,984	87,132	—	7,502
14	Corn	966,210	1,180,990	6,981	—	—
15	Oats	733,167	809,681	32,733	—	—
16	Barley	999,502	1,214,239	36,229	—	—
17	Rye	23,998	35,496	1,705	—	—
18	Flaxseed	331,279	358,603	12,913	—	—
19	Soya beans	242,994	648,477	—	—	—
20	Other grain	18,981	18,919	3,718	—	—
21	Flour	195,284	193,119	2,358	—	8,303
22	Other mill products	49,544	50,494	90,133	—	—
23	Other agricultural products	363,822	240,420	48,278	32	23,498
24	Totals	7,512,193	8,706,422	322,180	32	39,303
Animals and products:						
25	Fish	6,120	5,720	—	—	16,305
26	Other packing house products	—	109,559	—	—	—
27	Other animal products	232,115	107,400	30	405	220
28	Totals	238,235	222,679	30	405	16,525
Mine products:						
29	Coal, anthracite	—	—	—	—	—
30	Coal, bituminous	1,137,068	4,785,408	18,128	—	—
31	Coke	31,187	56,276	—	—	—
32	Iron ore and concentrates	6,275,335	7,296,473	—	—	2,756
33	Other ores and concentrates	32,147	32,147	—	—	17,364
34	Petroleum, crude	323,064	—	—	—	—
35	Sand, gravel and stone	336,542	839,862	98,910	—	—
36	Salt	107,640	139,954	20,418	—	—
37	Sulphur	87,403	82,738	12,673	—	11,720
38	Other mine products	185,414	124,097	131	80	49,537
39	Totals	8,515,800	13,356,955	150,260	80	81,377
Forest products:						
40	Pulpwood	306,272	352,724	9,845	—	12,847
41	Lumber	33,916	—	—	—	—
42	Other forest products	16,997	12,228	1,360	16	3,300
43	Totals	357,185	364,952	11,205	16	16,147
Manufactures and miscellaneous:						
44	Gasoline	41,969	286,740	86,097	—	244,549
45	Fuel, road and petroleum residual oils	1,226,733	922,755	130,979	—	183,608
46	Petroleum oils and other petroleum products	108,312	202,591	5,785	—	6,800
47	Iron, pig and bloom	103,640	104,817	32,866	—	4,200
48	Iron and steel, bar, rod and slab	65,582	70,030	57,641	—	—
49	Iron and steel, n.o.s.	199,236	430,434	11,278	—	—
50	Scrap iron and steel	30,772	251,186	—	—	—
51	Metals and alloys	102,587	15,935	1,316	—	—
52	Autos, trucks and parts	52,058	38,016	—	—	—
53	Machines, machinery and parts	9,349	9,640	65	—	—
54	Fertilizers	32,990	7,483	—	—	—
55	Chemicals and chemical products	124,240	204,625	8,244	—	—
56	Cement	26,770	235,412	—	—	51,844
57	Woodpulp	88,681	109,263	66,913	—	—
58	Newsprint paper	281,098	448,185	68,067	—	—
59	Sugar	115,567	14,698	—	—	4,000
60	Other manufactured products	1,486,912	1,136,098	111,935	286	25,525
61	Totals	4,096,496	4,487,908	581,186	286	520,726
62	Domestic package freight:	501,371	367,108	167,833	—	428
63	Grand totals	21,221,280	27,506,024	1,232,694	819	674,506
Cargo carried, by registry of vessel						
64	Canadian vessels	13,832,676	19,387,322	1,153,937	819	553,663
65	United States vessels	679,929	2,729,483	62,620	—	430
66	United Kingdom vessels	1,975,073	1,682,367	2,335	—	16,039
67	Other foreign vessels	4,733,602	3,706,852	13,802	—	104,324

¹ Classified as other freight in 1958.

TABLE 1. Total Traffic through Canadian Canals, 1958 and 1959

Richelieu river	Ottawa river	Rideau	Murray	Trent	St. Andrew's	Total		No.
						1959	1958	
Number of vessels, passengers and pleasure craft lockages								
761	1,658	51	200	67	398	21,363	21,763	1
61	7	18	41	1	—	4,819	3,216	2
—	—	—	—	—	—	1,125	302	3
—	2	—	13	—	—	3,252	2,170	4
822	1,667	69	254	68	398	30,559	27,451	5
—	217	180	—	267	480	207,968	145,562	6
108	7,481	34,153	2,706	61,935	1,333	110,143	86,738	7
Registered net tonnage of vessels								
121,182	398,001	2,091	35,225	1,020	24,062	28,706,462	26,835,559	8
1,400	132	252	1,006	50	—	4,233,936	3,029,624	9
—	—	—	—	—	—	3,130,140	198,926	10
—	50	—	228	—	—	7,321,449	1,793,309	11
122,582	398,183	2,343	36,459	1,070	24,062	43,391,987	31,657,418	12
Cargo tons								
—	—	—	—	—	—	7,638,030	6,515,540	13
—	—	—	—	—	—	2,154,181	688,345	14
—	—	—	—	—	—	1,575,581	681,295	15
—	—	—	—	—	—	2,249,970	2,476,176	16
—	—	—	—	—	—	61,199	150,222	17
—	—	—	—	—	—	702,795	700,560	18
—	—	—	—	—	—	891,471	483,413	19
—	—	—	—	—	—	41,616	10,947	20
—	—	—	—	—	—	399,064	57,412	21
—	—	—	—	—	—	190,171	105,956	22
—	—	—	—	—	85	676,135	74,666	23
—	—	—	—	—	85	16,580,215	11,944,532	24
—	—	—	—	—	1,806	29,951	18,529	25
—	—	—	—	—	—	109,559	2,200	26
—	—	—	—	—	—	340,170	26,005	27
—	—	—	—	—	1,806	479,680	46,734	28
—	—	—	—	—	—	—	20,949	29
8,002	—	—	—	—	—	5,948,606	5,466,813	30
—	—	—	—	—	—	87,483	80,764	31
—	—	—	—	—	—	13,574,564	5,819,593	32
—	—	—	—	—	—	81,658	116,256	33
—	327,600	—	—	—	—	323,064	578,546	34
—	—	—	—	—	—	1,602,914	1,063,659	35
4,975	—	—	—	—	—	268,012	276,441	36
1,575	—	—	—	—	—	199,509	209,977	37
14,552	327,600	—	—	—	6	360,840	298,981	38
—	—	—	—	—	—	681,686	994,261	40
—	—	55	—	—	105	34,076	41,667	41
—	—	—	—	—	20	33,921	590	42
—	—	55	—	—	125	749,685	1,036,518	43
—	—	—	—	44	905	660,304	605,154	44
—	—	—	—	36	—	2,464,311	1,703,245	45
—	—	—	—	3	—	323,491	538,086	46
—	—	—	—	—	—	245,523	45,338	47
—	—	—	—	—	—	193,253	322,666	48
—	—	—	90	—	—	641,038	20,526	49
—	—	—	—	—	—	261,958	229,326	50
—	—	—	—	—	—	119,838	73,026	51
—	—	—	—	—	—	90,074	19,159	52
—	—	—	—	—	—	19,054	4,562	53
41,320	—	—	—	—	—	81,793	52,416	54
—	—	—	—	—	—	337,109	188,178	55
—	—	—	—	—	—	314,026	357,645	56
—	—	—	—	—	—	264,857	202,052	57
27,603	—	—	—	—	—	824,953	813,187	58
—	—	—	—	—	—	134,265	110,077	59
25,527	43	3	—	—	1,006	2,787,335	240,961	60
94,450	43	3	90	83	1,911	9,783,182	5,525,606	61
—	—	—	—	—	—	1,036,740	2,613,218 ¹	62
109,002	327,643	58	90	83	3,933	51,076,132	35,098,587	63
Cargo carried, by registry of vessel								
109,602	327,643	58	90	83	3,933	35,369,216	30,344,507	64
—	—	—	—	—	—	3,472,522	2,607,879	65
—	—	—	—	—	—	3,675,814	236,677	66
—	—	—	—	—	—	8,558,580	1,907,524	67



SECTION II

ST. LAWRENCE SEAWAY CANALS

ST. LAWRENCE CANALS¹

TABLE 2. Location and Description

	From	To	Length of channel	Locks					
				Number	Minimum dimensions				
					Length	Width	Depth		
			miles		feet				
Main route:²									
South Shore canal	Montreal	Caughnawaga	20	2	766	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, 1950 - 59

Registry of Vessel	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Vessel transits										
Upbound:										
Canada	4,945	4,686	4,496	4,584	4,372	4,640	5,227	5,082	4,851	4,736
United States	25	45	36	30	70	77	92	161	193	340
United Kingdom	—	—	—	—	—	58	78	104	87	298
Other foreign	111	101	160	291	270	315	338	382	516	851
Totals	5,081	4,832	4,692	4,905	4,712	5,090	5,735	5,729	5,647	6,225
Downbound:										
Canada	4,911	4,643	4,497	4,603	4,387	4,845	5,374	5,133	4,835	4,853
United States	43	52	46	34	82	74	111	189	176	350
United Kingdom .....	..	..	..	..	..	64	93	117	81	308
Other foreign	112	103	159	287	268	315	337	378	506	840
Totals	5,066	4,798	4,702	4,924	4,737	5,298	5,915	5,817	5,598	6,351
Grand totals	10,147	9,630	9,394	9,829	9,449	10,388	11,650	11,546	11,245	12,576
Registered net tons										
Upbound:										
Canada	4,050,616	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
United States	15,479	34,798	16,119	13,318	28,882	34,157	39,562	40,187	57,941	507,176
United Kingdom .....	..	..	..	..	..	39,611	56,528	65,724	55,508	803,757
Other foreign	81,496	74,051	119,532	219,329	223,348	262,325	286,072	321,122	427,427	2,038,223
Totals	4,147,591	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
Downbound:										
Canada	3,986,573	3,929,654	4,014,119	3,961,431	3,834,853	4,297,321	4,684,266	4,029,862	4,025,615	5,392,199
United States	16,803	36,455	17,574	13,321	31,288	34,925	43,621	49,339	53,554	468,942
United Kingdom .....	..	..	..	..	..	47,743	68,883	80,647	51,139	812,951
Other foreign	82,505	77,407	122,176	215,479	221,740	258,691	286,035	316,716	416,682	2,017,016
Totals	4,085,881	4,043,516	4,153,869	4,190,231	4,087,881	4,638,680	5,082,805	4,476,564	4,546,990	8,691,105
Grand totals	8,233,472	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
Cargo tons										
Upbound:										
Canada .....	..	..	..	..	..	4,391,872	5,323,540	4,686,603	4,099,722	8,085,427
United States .....	..	..	..	..	..	11,782	2,200	235	925	510,245
United Kingdom .....	..	..	..	..	..	44,846	71,453	60,226	78,254	708,082
Other foreign .....	..	..	..	..	..	333,303	381,103	341,733	491,346	1,851,215
Totals	4,157,800	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
Downbound:										
Canada .....	..	..	..	..	..	6,219,723	7,243,194	6,569,682	6,495,606	5,747,249
United States .....	..	..	..	..	..	36,854	52,114	45,173	29,181	169,684
United Kingdom .....	..	..	..	..	..	55,824	72,735	83,734	63,809	1,266,991
Other foreign .....	..	..	..	..	..	352,416	353,359	404,106	503,257	2,882,387
Totals	5,811,471	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
Grand totals	9,969,271	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
Season of navigation										
First vessel passage	April 10	April 8	April 2	March 31	April 13	April 10	April 12	April 10	April 14	April 25
Last vessel passage	Dec. 14	Dec. 9	Dec. 15	Dec. 14	Dec. 11	Dec. 12	Dec. 13	Dec. 13	Dec. 19	Dec. 3

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

Kind of vessel	Number of vessels			Registered net tons	Gross tons	Cargo tons	Number of passengers
	In ballast	With cargo	Total				
Upbound:							
Cargo	1,118	2,020	3,138	6,570,652	9,923,728	8,869,715	46
Passenger-cargo	46	19	67	90,536	161,806	29,596	3,661
Cargo-passenger	21	257	278	485,407	843,481	483,431	159
Scow, barge, etc.	582	8	590	266,205	268,757	12,163	—
Tanker	65	521	586	1,045,259	1,680,238	1,759,646	—
Tug or dredge	973	1	974	43,827	92,021	250	—
Pleasure craft over 40 ft.	349	—	349	3,314	4,354	—	218
Naval or government	148	7	155	162,447	269,181	100	2
All other types	81	7	88	3,646	5,267	68	8
Totals	3,385	2,840	6,225	8,671,293	13,248,833	11,154,969	4,092
Downbound:							
Cargo	699	2,567	3,266	6,721,746	10,190,273	8,551,570	38
Passenger-cargo	44	24	68	97,260	173,754	61,678	3,821
Cargo-passenger	2	229	231	422,956	743,660	571,581	170
Scow, barge, etc.	248	371	619	265,295	267,502	356,080	6
Tanker	456	118	574	983,037	1,584,260	524,373	1
Tug or dredge	977	2	979	46,686	95,186	500	—
Pleasure craft over 40 ft.	379	—	379	20,563	22,291	—	285
Naval or government	138	5	143	128,981	209,729	69	—
All other types	85	7	92	4,561	5,652	460	73
Totals	3,028	3,323	6,351	8,691,105	13,292,307	10,066,311	4,394
Grand totals	6,413	6,163	12,576	17,362,398	26,541,140	21,221,280	8,486

TABLE 5. Traffic on the St. Lawrence 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	2,810	1,926	4,736	5,322,137	7,600,773	8,085,427	1,268
United States	290	50	340	507,176	777,348	510,245	1,752
United Kingdom	93	205	298	803,757	1,409,372	708,082	104
Bermuda	—	1	1	7,751	12,721	13,524	—
Denmark	12	26	38	85,239	151,805	112,788	2
Finland	2	12	14	12,883	25,398	18,238	2
France	3	23	26	98,052	168,388	69,703	1
Germany	17	217	234	337,817	571,739	363,942	28
Greece	12	3	15	65,769	107,790	14,182	—
Italy	5	20	25	54,639	95,926	18,641	—
Netherlands	7	48	55	96,646	158,032	93,544	241
Norway	34	181	215	533,702	919,406	647,194	23
Sweden	6	68	74	120,286	225,448	162,012	6
Other Europe	3	3	6	14,735	27,515	12,930	—
Panama	21	9	30	106,338	176,951	43,811	437
Other Central America and Caribbean	5	3	8	27,187	45,385	14,760	202
South America	1	—	1	1,011	1,845	—	—
Middle East	1	11	12	23,002	41,656	14,677	—
Other Asia	—	2	2	10,713	18,598	1,097	5
Liberia	63	32	95	442,453	712,737	250,172	1
Totals	3,385	2,840	6,225	8,671,293	13,248,833	11,154,969	4,092
Downbound:							
Canada	2,620	2,233	4,853	5,392,196	7,711,279	5,747,249	1,552
United States	296	54	350	468,942	706,711	169,684	1,794
United Kingdom	42	266	308	812,951	1,435,167	1,266,991	102
Bermuda	—	1	1	7,751	12,721	9,716	—
Denmark	6	31	37	87,142	156,642	132,746	5
Finland	—	14	14	13,630	24,650	35,012	—
France	1	25	26	98,225	169,326	124,516	—
Germany	10	224	234	340,783	581,356	532,835	22
Greece	—	14	14	63,115	103,797	105,791	—
Italy	—	23	23	54,410	89,875	89,842	—
Netherlands	4	50	54	95,053	156,443	132,991	201
Norway	19	194	213	529,991	932,258	700,204	53
Sweden	3	70	73	118,264	222,135	194,424	4
Other Europe	—	5	5	9,076	17,365	21,359	—
Panama	11	23	34	117,936	196,158	168,943	540
Other Central America and Caribbean	1	3	4	14,184	24,298	25,703	119
South America	—	2	2	5,402	9,015	9,139	—
Middle East	—	13	13	27,171	48,908	47,510	—
Other Asia	—	2	2	10,713	18,598	983	2
Liberia	15	76	91	424,170	675,605	550,673	—
Total	3,028	3,323	6,351	8,691,105	13,292,307	10,066,311	4,394
Grand totals	6,413	6,163	12,576	17,362,398	26,541,140	21,221,280	8,486

TABLE 6. Traffic on the St. Lawrence 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	1,297	31	1,328	34,161	64,272	11,200	543
80 to 119 feet	553	306	859	113,479	156,261	66,094	6
120 " 159 "	127	45	172	53,249	73,778	14,569	—
160 " 199 "	417	31	448	218,630	234,867	10,766	198
200 " 239 "	42	79	121	85,422	130,505	91,400	—
240 " 279 "	591	1,377	1,968	2,494,694	3,799,783	3,297,545	671
280 " 319 "	25	107	132	163,014	286,743	191,298	266
320 " 359 "	47	183	230	452,327	720,935	635,875	2,017
360 " 399 "	56	116	172	368,929	625,662	329,546	52
400 " 439 "	36	94	130	407,290	663,839	369,278	59
440 " 479 "	131	129	260	1,044,239	1,740,556	526,927	272
480 " 519 "	54	48	102	501,368	784,827	348,776	5
520 " 559 "	25	52	77	492,301	776,193	598,577	3
560 " 599 "	—	41	41	312,333	490,456	540,968	—
600 " 639 "	—	52	52	393,507	561,626	875,379	—
640 " 679 "	2	70	72	655,958	912,408	1,444,285	—
680 " 719 "	2	79	81	880,392	1,218,122	1,802,486	—
Totals	3,385	2,840	6,225	8,671,293	13,248,833	11,154,969	4,092
Downbound:							
Under 80 feet	1,372	21	1,393	51,735	81,887	2,319	615
80 to 119 feet	569	288	857	118,951	162,498	46,079	8
120 " 159 "	87	107	194	60,215	83,507	28,224	—
160 " 199 "	101	354	455	235,492	258,457	345,102	1
200 " 239 "	35	84	119	80,367	135,757	107,032	118
240 " 279 "	524	1,490	2,014	2,543,912	3,892,678	3,868,088	690
280 " 319 "	13	111	124	150,875	270,018	253,618	276
320 " 359 "	33	188	221	432,038	693,241	799,695	2,330
360 " 399 "	36	127	163	343,602	581,218	470,242	55
400 " 439 "	4	123	127	394,232	648,554	631,078	53
440 " 479 "	10	250	260	1,048,410	1,745,125	1,587,543	246
480 " 519 "	19	84	103	522,304	808,374	722,773	2
520 " 559 "	19	56	75	480,998	755,343	572,426	—
560 " 599 "	28	14	42	311,970	502,930	169,674	—
600 " 639 "	45	7	52	394,460	557,821	101,229	—
640 " 679 "	62	9	71	641,158	896,777	160,276	—
680 " 719 "	71	10	81	880,386	1,218,122	200,913	—
Totals	3,028	3,323	6,351	8,691,105	13,292,307	10,066,311	4,394
Grand totals	6,413	6,163	12,576	17,362,398	26,541,140	21,221,280	8,486

TABLE 7. Number and Tonnage of Vessels Using the St. Lawrence Section of the Seaway by Origin and Destination

Port of origin or destination and country of registry	Upbound								
	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 and Richelieu rivers:									
Registry:									
Canada	3,720	2,812,896	4,048,453	626	2,432,067	3,424,950	4,546	5,244,963	7,473,403
United States	35	22,626	33,837	199	229,913	321,863	234	252,539	355,700
United Kingdom	50	124,802	216,086	40	220,800	370,252	90	345,602	585,368
Bermuda	—	—	—	1	7,751	12,721	1	7,751	12,721
Denmark	1	710	1,176	5	9,099	16,643	6	9,809	17,819
France	1	2,750	3,750	2	16,782	27,170	3	19,532	30,920
Germany	5	5,263	8,317	4	9,101	16,067	9	14,364	24,384
Greece	1	4,380	7,282	3	14,060	23,432	4	18,440	30,714
Italy	—	—	—	2	7,881	14,126	2	7,881	14,126
Norway	3	7,681	13,242	14	62,078	87,430	17	69,759	100,672
Sweden	1	2,166	3,863	6	24,842	45,815	7	27,008	49,678
Other Europe	1	4,965	8,355	4	3,717	7,331	5	8,682	15,688
Panama	1	4,283	7,074	12	37,808	64,669	13	42,091	71,743
Liberia	9	43,790	70,262	24	116,398	188,050	33	160,188	258,313
Other Countries	3	15,468	18,087	2	1,978	3,672	5	17,446	21,759
Totals	3,831	3,051,780	4,439,784	1,144	3,194,275	4,624,221	4,975	6,246,055	9,064,005

TABLE 7. Number and Tonnage of Vessels Using the St. Lawrence Section of the Seaway by Origin and Destination - Concluded

Port of origin or destination and country of registry	Upbound								
	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	180	71,121	117,071	10	6,053	10,299	190	77,174	127,370
United States	17	14,258	21,195	89	240,379	400,453	106	254,637	421,648
United Kingdom	63	106,454	196,703	145	351,701	626,301	208	458,155	823,004
Denmark	16	34,927	61,179	16	40,503	72,807	32	75,430	133,986
Finland	—	—	—	13	12,134	23,985	13	12,134	23,985
France	1	4,961	8,532	22	73,559	128,936	23	78,520	137,468
Germany	36	75,463	119,042	189	247,990	428,313	225	323,453	547,355
Greece	5	20,762	33,747	6	26,567	43,329	11	47,329	77,076
Italy	2	8,784	14,336	21	37,974	67,464	23	46,758	81,800
Netherlands	6	9,305	13,755	46	77,374	136,242	52	86,679	149,997
Norway	57	193,325	337,899	141	270,558	480,835	198	463,943	818,734
Sweden	6	9,648	17,029	61	83,630	158,741	67	93,278	175,770
Other Europe	2	3,519	6,667	3	9,860	18,000	5	13,379	24,667
Panama	3	10,530	17,422	14	53,717	87,786	17	64,247	105,208
Liberia	23	138,743	215,714	39	143,522	238,711	62	282,265	454,425
Other Countries	4	16,051	26,892	14	31,806	55,443	18	47,857	82,335
Totals	421	717,911	1,207,183	829	1,707,327	2,977,645	1,250	2,425,238	4,184,828
Grand totals	4,252	3,769,691	5,646,967	1,973	4,901,602	7,601,866	6,225	8,671,293	13,248,833
Downbound									
Originating in									
Canada			United States			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	
Destined to ports on the St. Lawrence river:									
Registry:									
Canada	4,639	5,315,376	7,586,101	2	35	119	4,641	5,315,411	7,586,220
United States	142	210,353	295,133	110	26,247	29,971	252	236,600	325,104
United Kingdom	90	282,379	482,786	—	—	—	90	282,379	482,786
Denmark	7	16,709	30,738	—	—	—	7	16,709	30,738
France	1	2,750	3,750	—	—	—	1	2,750	3,750
Germany	7	9,587	15,481	—	—	—	7	9,587	15,481
Netherlands	1	806	1,535	—	—	—	1	806	1,535
Norway	5	20,279	35,650	—	—	—	5	20,279	35,650
Sweden	2	1,766	3,223	—	—	—	2	1,766	3,223
Panama	10	16,332	29,142	—	—	—	10	16,332	29,142
Other Central America and Caribbean	1	989	1,836	—	—	—	1	989	1,836
Liberia	2	5,872	9,974	—	—	—	2	5,872	9,974
Totals	4,907	5,883,198	8,495,349	112	26,282	30,090	5,019	5,909,480	8,525,439
Destined to ports outside the Gulf of St. Lawrence:									
Registry:									
Canada	114	61,035	105,512	98	15,750	19,547	212	76,785	125,059
United States	8	6,622	11,059	90	225,720	370,548	98	232,342	381,607
United Kingdom	67	85,569	155,456	151	445,003	796,925	218	530,572	952,381
Bermuda	—	—	—	1	7,751	12,721	1	7,751	12,721
Denmark	—	—	—	30	70,433	125,904	30	70,433	125,904
Finland	—	—	—	14	13,630	24,650	14	13,630	24,650
France	—	—	—	25	95,475	165,576	25	95,475	165,576
Germany	3	18,623	27,333	224	312,573	538,542	227	331,196	565,875
Greece	—	—	—	14	63,115	103,797	14	63,115	103,797
Italy	—	—	—	23	54,410	89,875	23	54,410	89,875
Netherlands	2	532	998	51	93,715	153,910	53	94,247	154,908
Norway	2	2,178	3,736	206	507,534	892,872	208	509,712	896,608
Sweden	1	388	910	70	116,110	218,002	71	116,498	218,912
Other Europe	—	—	—	5	9,076	17,365	5	9,076	17,365
Panama	—	—	—	24	101,604	167,016	24	101,604	167,016
Liberia	—	—	—	89	418,298	665,631	89	418,298	665,631
Other Countries	—	—	—	20	56,481	98,983	20	56,481	98,983
Totals	197	174,947	305,004	1,135	2,606,678	4,461,864	1,332	2,781,625	4,766,868
Grand totals	5,104	6,058,145	8,800,353	1,247	2,632,960	4,491,954	6,351	8,691,105	13,292,307

TABLE 8. Number and Tonnage of Vessels Using the St. Lawrence 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	1,579	3,830,725	5,615,392	2,563	1,246,173	1,739,420	594	245,239	245,961	4,736	5,322,137	7,600,773
United States	89	417,263	655,594	223	59,140	87,113	28	30,773	34,641	340	507,196	777,348
United Kingdom	113	305,689	538,638	184	497,812	870,478	1	256	256	298	803,757	1,409,372
Bermuda	—	—	—	1	7,751	12,721	—	—	—	1	7,751	12,721
Denmark	10	13,752	26,347	28	71,487	125,458	—	—	—	38	85,239	151,805
Finland	11	7,988	15,903	3	4,895	9,495	—	—	—	14	12,883	25,398
France.....	2	3,911	6,059	24	94,141	162,329	—	—	—	26	98,052	168,388
Germany	11	15,360	26,946	223	322,457	544,793	—	—	—	234	337,817	571,739
Greece	12	53,064	86,503	3	12,705	21,287	—	—	—	15	65,769	107,790
Italy.....	3	9,963	16,522	22	44,876	79,404	—	—	—	25	54,639	95,926
Netherlands	—	—	—	55	96,646	158,032	—	—	—	55	96,646	158,032
Norway	18	37,176	62,218	197	496,526	857,188	—	—	—	215	533,702	919,406
Sweden	8	12,604	22,898	66	107,682	202,550	—	—	—	74	120,286	225,448
Other Europe	1	2,988	5,368	5	11,747	22,147	—	—	—	6	14,735	27,515
Panama	18	64,587	108,249	12	41,751	68,702	—	—	—	30	106,338	176,951
Other Central America ¹	8	27,187	45,385	—	—	—	—	—	—	8	27,187	45,385
South America	1	1,011	1,845	—	—	—	—	—	—	1	1,011	1,845
Middle East	—	—	—	12	23,002	41,656	—	—	—	12	23,002	41,656
Other Asia	—	—	—	2	10,713	18,598	—	—	—	2	10,713	18,598
Liberia	75	326,345	532,930	20	116,108	179,807	—	—	—	95	442,453	712,737
Totals	1,959	5,129,613	7,766,797	3,643	3,265,412	5,201,178	623	276,268	280,858	6,225	8,671,293	13,248,833
Downbound:												
Canada	1,613	3,849,279	5,655,920	2,604	1,290,138	1,801,332	636	252,779	254,027	4,853	5,392,196	7,711,279
United States	75	387,962	597,794	248	57,957	84,171	27	23,023	24,746	350	468,942	706,711
United Kingdom	118	332,880	591,552	189	479,921	843,465	1	150	150	308	812,951	1,435,167
Bermuda	—	—	—	1	7,751	12,721	—	—	—	1	7,751	12,721
Denmark	11	14,136	27,032	26	73,006	129,610	—	—	—	37	87,142	156,642
Finland	12	9,407	16,552	2	4,223	8,098	—	—	—	14	13,630	24,650
France.....	1	2,750	3,750	25	95,475	165,576	—	—	—	26	98,225	169,326
Germany	13	21,306	36,359	221	319,477	544,997	—	—	—	234	340,783	581,356
Greece.....	11	48,617	79,268	3	14,498	24,529	—	—	—	14	63,115	103,797
Italy	1	4,379	7,176	22	50,031	82,699	—	—	—	23	54,410	89,875
Netherlands	—	—	—	54	95,053	156,443	—	—	—	54	95,053	156,443
Norway	17	35,670	61,623	196	494,321	870,635	—	—	—	213	529,991	932,258
Sweden	4	7,162	13,113	69	111,102	209,022	—	—	—	73	118,264	222,135
Other Europe	1	1,356	2,848	4	7,720	14,517	—	—	—	5	9,076	17,365
Panama	24	81,152	136,479	10	36,784	59,679	—	—	—	34	117,936	196,158
Other Central America ¹	4	14,184	24,298	—	—	—	—	—	—	4	14,184	24,298
South America	2	5,402	9,015	—	—	—	—	—	—	2	5,402	9,015
Middle East	1	4,449	7,252	12	22,722	41,656	—	—	—	13	27,171	48,908
Other Asia	—	—	—	2	10,713	18,598	—	—	—	2	10,713	18,598
Liberia	69	295,181	474,262	22	128,989	201,343	—	—	—	91	424,170	675,605
Totals	1,977	5,115,272	7,744,293	3,710	3,299,881	5,269,091	664	275,952	278,923	6,351	8,691,105	13,292,307
Grand totals	3,936	10,244,885	15,511,090	7,353	6,565,293	10,470,269	1,287	552,220	559,781	12,576	17,362,398	26,541,140

¹ Including Caribbean.

TABLE 9. Number and Tonnage of Vessels Using the St. Lawrence 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	62	5,789	8,170	63	4,677	5,987	125	10,466	14,157
80 to 119 feet	435	61,078	81,258	449	63,619	85,014	884	124,697	166,272
120 " 159 "	110	28,357	45,702	122	30,801	50,126	232	59,158	95,828
160 " 199 "	26	7,561	15,327	26	7,087	14,431	52	14,648	29,758
200 " 239 "	71	42,826	80,223	73	42,752	82,023	144	85,578	162,246
240 " 279 "	1,603	2,042,029	3,112,560	1,657	2,100,437	3,221,566	3,260	4,142,466	6,334,126
280 " 319 "	109	132,978	239,158	106	129,415	231,669	215	262,393	470,827
320 " 359 "	218	433,192	688,599	210	414,906	662,462	428	848,098	1,351,061
360 " 399 "	124	266,750	446,164	126	270,084	452,791	250	536,834	898,955
400 " 439 "	121	375,212	610,328	119	366,184	598,943	240	741,396	1,209,271
440 " 479 "	249	995,540	1,654,968	252	1,010,503	1,682,526	501	2,006,043	3,337,494
480 " 519 "	83	399,192	608,644	85	407,456	622,409	168	806,648	1,231,053
520 " 559 "	49	305,658	463,216	49	304,332	456,873	98	609,990	920,089
560 " 599 "	19	135,376	198,173	24	173,705	268,147	43	309,081	466,320
600 " 639 "	52	393,507	561,626	52	394,460	557,821	104	787,967	1,119,447
640 " 679 "	71	641,158	896,777	71	641,158	896,777	142	1,282,316	1,793,554
680 " 719 "	81	880,392	1,218,122	81	880,386	1,218,122	162	1,760,778	2,436,244
Totals	3,483	7,146,595	10,929,015	3,565	7,241,962	11,107,687	7,048	14,388,557	22,036,702
Barge and scow:									
Under 80 feet	57	5,062	5,069	68	5,854	5,892	125	10,916	10,961
80 to 119 feet	81	18,590	18,669	104	22,681	22,681	185	41,271	41,350
120 " 159 "	32	11,780	11,781	35	13,090	13,165	67	24,870	24,946
160 " 199 "	395	201,597	203,142	394	203,314	205,252	789	404,911	408,394
200 " 239 "	23	26,147	26,957	18	20,356	20,512	41	46,503	47,469
240 " 279 "	1	1,148	1,148	—	—	—	1	1,148	1,148
320 " 359 "	1	1,881	1,991	—	—	—	1	1,881	1,991
Totals	590	266,205	268,757	619	265,295	267,502	1,209	531,500	536,259
Tanker:									
80 to 119 feet	79	9,445	11,199	78	9,326	11,050	157	18,771	22,249
160 " 199 "	13	4,962	7,988	14	6,109	9,427	27	11,071	17,415
200 " 239 "	24	14,520	27,979	26	16,058	31,025	50	30,578	59,004
240 " 279 "	364	451,517	686,075	357	443,475	671,112	721	894,992	1,357,187
280 " 319 "	9	10,059	20,559	9	10,059	20,559	18	20,118	41,118
320 " 359 "	9	14,866	26,051	9	14,866	26,051	18	29,732	52,102
360 " 399 "	8	23,875	35,921	9	26,673	40,601	17	50,548	76,522
400 " 439 "	6	22,922	40,092	6	22,922	40,092	12	45,844	80,184
440 " 479 "	7	30,517	53,431	6	26,327	46,381	13	56,844	99,812
480 " 519 "	17	98,976	165,683	16	92,291	154,709	33	191,267	320,392
520 " 559 "	27	181,475	306,034	26	176,666	298,470	53	358,141	604,504
560 " 599 "	23	182,125	299,226	18	138,265	234,783	41	320,390	534,009
Totals	586	1,045,259	1,680,238	574	983,037	1,584,260	1,160	2,028,296	3,264,498
Tug or dredge:									
Under 80 feet	743	18,857	45,447	759	19,265	46,153	1,502	38,122	91,600
80 to 119 feet	214	19,384	38,342	200	18,822	37,724	414	38,206	76,066
120 " 159 "	14	4,850	6,982	17	6,837	9,504	31	11,687	16,486
160 " 199 "	3	736	1,250	3	1,762	1,805	6	2,498	3,055
Totals	974	43,827	92,021	979	46,686	95,186	1,953	90,513	187,207
Other vessels:									
Under 80 feet	466	4,453	5,586	503	21,939	23,855	969	26,392	29,441
80 to 119 feet	30	4,982	6,793	27	4,693	6,219	57	9,675	13,012
120 " 159 "	16	8,262	9,313	19	9,297	10,522	35	17,559	19,835
160 " 199 "	11	3,774	7,160	18	17,220	27,542	29	20,994	34,702
200 " 239 "	3	1,929	3,346	2	1,201	2,197	5	3,130	5,543
280 " 319 "	14	19,977	27,026	9	11,401	17,790	23	31,378	44,816
320 " 359 "	2	2,388	4,294	2	2,266	4,728	4	4,654	9,022
360 " 399 "	40	78,304	143,577	28	46,845	87,826	68	125,149	231,403
400 " 439 "	3	9,156	13,419	2	5,126	9,519	5	14,282	22,938
440 " 479 "	4	18,182	32,157	2	11,580	16,218	6	29,762	48,375
480 " 519 "	2	3,200	10,500	2	22,557	31,256	4	25,757	41,756
640 " 679 "	1	14,800	15,631	—	—	—	1	14,800	15,631
Totals	592	169,407	278,802	614	154,125	237,672	1,206	323,532	516,474
Grand totals	6,225	8,671,293	13,248,833	6,351	8,691,105	13,292,307	12,576	17,362,398	26,541,140

TABLE 10. Number and Tonnage of Vessels Using the St. Lawrence 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	27	658	797	27	643	838	54	1,301	1,635
6 to 7 feet	78	16,013	20,397	87	15,640	19,716	165	31,653	40,113
8 " 9 "	88	10,118	14,195	93	10,663	14,915	181	20,781	29,110
10 " 11 "	146	21,163	33,131	150	22,567	35,334	296	43,730	68,465
12 " 13 "	281	62,522	99,912	299	63,152	100,079	580	125,674	199,991
14 " 15 "	309	352,115	486,239	305	350,606	484,541	614	702,721	970,780
16 " 17 "	819	1,030,724	1,604,563	853	1,070,840	1,669,645	1,672	2,101,564	3,274,208
18 " 19 "	622	915,235	1,415,421	630	904,956	1,417,943	1,252	1,820,191	2,833,364
20 " 21 "	308	667,300	1,007,455	311	689,511	1,037,249	619	1,356,811	2,044,704
22 " 23 "	177	508,501	800,505	191	550,760	867,852	368	1,059,261	1,668,357
24 " 25 "	251	1,534,212	2,249,488	245	1,529,907	2,249,297	496	3,064,119	4,498,785
26 " 27 "	203	1,148,672	1,758,107	199	1,130,077	1,737,959	402	2,278,749	3,496,066
28 " 29 "	120	514,342	853,918	116	502,262	823,292	236	1,016,604	1,677,210
30 feet and over	54	365,020	584,887	59	400,378	649,027	113	765,398	1,233,914
Totals	3,483	7,146,595	10,929,015	3,565	7,241,962	11,107,687	7,048	14,388,557	22,036,702
Barge or scow:									
5 feet and under	198	60,502	60,589	211	59,479	59,479	409	119,981	120,068
6 to 7 feet	21	5,462	5,462	35	8,345	8,383	56	13,807	13,845
8 " 9 "	333	165,099	164,831	338	166,410	166,442	671	331,509	331,273
10 " 11 "	13	8,782	9,430	15	12,079	12,202	28	20,861	21,632
12 " 13 "	11	8,899	10,874	11	8,272	10,286	22	17,171	21,160
14 " 15 "	13	15,580	15,580	9	10,710	10,710	22	26,290	26,290
16 " 17 "	1	1,881	1,991	—	—	—	1	1,881	1,991
Totals	590	266,205	268,757	619	265,295	267,502	1,209	531,500	536,259
Tanker:									
6 to 7 feet	35	4,165	5,215	34	4,046	5,066	69	8,211	10,281
10 " 11 "	46	5,850	7,278	43	5,273	6,211	89	11,123	13,489
12 " 13 "	54	57,448	83,480	52	55,024	79,968	106	112,472	163,448
14 " 15 "	140	161,691	228,437	143	163,722	230,452	283	325,413	458,889
16 " 17 "	164	194,517	326,423	158	188,068	314,872	322	382,585	641,295
18 " 19 "	30	50,155	81,238	32	44,321	70,112	62	94,476	151,350
20 " 21 "	8	17,264	31,045	10	30,438	55,848	18	47,702	86,393
22 " 23 "	20	66,224	108,825	21	70,792	115,860	41	137,016	224,685
24 " 25 "	5	26,122	41,270	3	10,322	17,827	8	36,444	59,097
26 " 27 "	8	35,645	62,041	9	42,674	72,941	17	78,319	134,982
28 " 29 "	17	86,703	145,966	14	71,083	120,420	31	157,786	266,386
30 feet and over	59	339,475	559,020	55	297,274	495,183	114	636,749	1,054,203
Totals	586	1,045,259	1,680,238	574	983,037	1,564,260	1,160	2,028,296	3,264,498
Tug or dredge:									
5 feet and under	58	2,909	3,198	64	2,322	2,520	122	5,231	5,718
6 to 7 feet	520	15,294	33,513	521	16,051	34,208	1,041	31,345	67,721
8 " 9 "	190	7,891	19,395	190	8,056	19,461	380	15,947	38,856
10 " 11 "	114	7,611	16,912	113	8,766	18,066	227	16,377	34,978
12 " 13 "	74	7,916	13,028	73	8,081	13,849	147	15,997	26,877
14 " 15 "	10	685	2,267	11	1,720	3,328	21	2,405	5,595
16 " 17 "	7	1,268	3,080	7	1,690	3,754	14	2,958	6,834
18 " 19 "	1	253	628	—	—	—	1	253	628
Totals	974	43,827	92,021	979	46,686	95,186	1,953	90,513	187,207
Other vessels:									
5 feet and under	454	6,077	8,075	492	24,827	27,495	946	30,904	35,570
6 to 7 feet	24	1,758	2,915	27	2,443	3,659	51	4,201	6,574
8 " 9 "	17	7,775	8,766	17	7,162	7,817	34	14,937	16,583
10 " 11 "	10	4,337	6,042	8	4,483	6,144	18	8,820	12,186
12 " 13 "	16	4,984	6,893	14	4,862	6,880	30	9,846	13,773
14 " 15 "	6	10,677	13,183	8	4,707	8,546	14	15,384	21,729
16 " 17 "	43	62,866	115,333	31	43,249	81,259	74	106,115	186,592
18 " 19 "	8	18,881	25,555	9	21,520	30,512	17	40,401	56,067
20 " 21 "	10	28,832	58,804	6	18,315	34,104	16	47,147	92,908
24 " 25 "	2	14,803	15,636	1	7,600	13,907	3	22,403	29,543
26 " 27 "	2	8,417	17,600	—	—	—	2	8,417	17,600
30 feet and over	—	—	—	1	14,957	17,349	1	14,957	17,349
Totals	592	169,407	278,802	614	154,125	237,672	1,206	323,532	516,474
Grand totals	6,225	8,671,293	13,248,833	6,351	8,691,105	13,292,307	12,576	17,362,398	26,541,140

TABLE 11 A. Cargo Tons Carried Upbound on the St. Lawrence 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 the St. Lawrence river:									
Canada.....	3,375,103	54,552	3,429,655	5,299,220	244,356	5,543,576	8,674,323	298,908	8,973,231
United States	—	—	—	—	24	24	—	24	24
Totals	3,375,103	54,552	3,429,655	5,299,220	244,380	5,543,600	8,674,323	298,932	8,973,255
Ports outside the Gulf of St. Lawrence:									
Canada—Atlantic ports.....	10,205	7,534	17,739	56,774	56,140	112,914	66,979	63,674	130,653
Canada—Pacific ports	—	—	—	3,503	—	3,503	—	—	3,503
United States—Atlantic and Gulf ports	75,258	8,906	84,164	10,704 ¹	30	10,734	85,962	8,936	94,898
United States—Pacific ports	—	601	601	—	—	—	—	601	601
United Kingdom.....	14,377	97,237	111,614	30,185	78,855	109,040	44,562	176,092	220,654
West Indies Federation.....	188,550	81	188,631	17,461	79	17,540	206,011	160	206,171
Other British Commonwealth	8,870	79	8,949	—	—	—	8,870	79	8,949
Belgium.....	5,538	63,247	68,785	17,634	375,834	393,468	23,172	439,081	462,253
Denmark.....	4,475	8,882	13,357	10,562	5,921	16,483	15,037	14,803	29,840
Finland.....	130	1,421	1,551	37,413	6,542	43,955	37,543	7,963	45,506
France.....	1,173	8,964	10,137	8,112	37,570	45,682	9,285	46,534	55,819
Germany.....	58	45,929	45,987	3,494	61,875	65,369	3,552	107,804	111,356
Greece.....	—	100	100	10	171	181	10	271	281
Italy.....	2,104	21,444	23,548	12,136	36,719	48,855	14,240	58,163	72,403
Netherlands.....	2,760	18,803	21,563	53,197	71,785	124,982	55,957	90,588	146,545
Norway.....	1,187	1,819	3,006	13,109	20,769	33,878	14,296	22,588	36,884
Portugal.....	—	2,380	2,380	6	4,272	4,278	6	6,652	6,658
Sweden.....	1,992	5,080	7,072	29,713	14,593	44,306	31,705	19,673	51,378
Other Europe.....	—	7,324	7,324	25,454	13,847	39,301	25,454	21,171	46,625
Central America and Caribbean.....	47,286	1,782	49,068	93,168	7,349	100,517	140,434	9,131	149,565
South America.....	240,518	1,410	241,928	11,599	229	11,828	252,117	1,639	253,756
Middle East.....	—	447	447	—	734	734	—	1,181	1,181
Other Asia.....	—	635	635	—	—	—	—	635	635
Other Africa.....	23,287	398	23,685	4,299	729	5,028	27,586	1,127	28,713
Pacific and Indian Ocean Islands.....	16,887	—	16,887	—	—	—	16,887	—	16,887
Totals	644,635	304,503	949,138	438,533	794,043	1,232,576	1,083,168	1,098,546	2,181,714
Grand totals	4,019,738	359,055	4,378,793	5,737,753	1,038,423	6,776,176	9,757,491	1,397,478	11,154,969

¹ Includes 2,495 tons loaded at Hudson river ports.

TABLE 11 B. Cargo Tons Carried Downbound on the St. Lawrence 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 St. Lawrence river:									
Canada.....	4,470,012	43,954	4,513,966	1,617,443	53,539	1,670,982	6,087,455	97,493	6,184,948
United States.....	—	—	—	23,902	—	23,902	23,902	—	23,902
Totals	4,470,012	43,954	4,513,966	1,641,345	53,539	1,694,884	6,111,357	97,493	6,208,850
Ports outside the Gulf of St. Lawrence:									
Canada—Atlantic ports.....	98,236	18,282	116,518	1	43	44	98,237	18,325	116,562
Canada—Pacific ports	—	653	653	—	—	—	—	853	653
United States—Atlantic and Gulf ports	—	114	114	—	1,928	1,928	—	2,042	2,042
United Kingdom.....	551,321	22,200	573,521	444,196	82,584	526,780	995,517	104,784	1,100,301
West Indies Federation.....	5,567	1,897	7,464	422	989	1,411	5,989	2,888	8,875
Other British Commonwealth	458	294	752	414	201	615	872	495	1,367
Belgium.....	49,241	9,150	58,391	122,563	27,730	150,293	171,804	36,880	208,684
Denmark.....	39	2,837	2,876	153,370	2,158	155,528	153,409	4,995	158,404
Finland.....	94	217	311	1,598	1,115	2,713	1,692	1,332	3,024
France.....	12,901	6,898	19,799	10,507	30,312	40,819	23,408	37,210	60,618
Germany.....	8,381	12,088	20,469	407,490	42,489	449,979	415,871	54,577	470,448
Greece.....	—	918	918	21,185	8,823	30,008	21,185	9,741	30,926
Italy.....	11	4,682	4,693	71,861	26,900	98,761	71,872	31,582	103,454
Netherlands.....	67,332	19,823	87,155	866,016	58,456	924,472	933,348	78,279	1,011,627
Norway.....	6,043	587	6,630	44,413	3,918	48,331	50,456	4,505	54,961
Portugal.....	—	590	590	5,069	3,198	8,267	5,069	3,788	8,857
Sweden.....	38	2,658	2,696	7,040	21,388	28,428	7,078	24,046	31,124
Other Europe.....	10,551	2,546	13,097	58,399	25,263	83,662	68,950	27,809	96,759
Central America and Caribbean.....	4,056	2,713	6,769	66,662	6,022	72,684	70,718	8,735	79,453
South America.....	43,431	12,635	56,066	74,160	36,851	111,011	117,591	49,486	167,077
Middle East.....	3,145	3,567	6,712	34,508	20,508	55,016	37,653	24,075	61,728
Other Asia.....	26,326	2,300	28,626	29,140	5,758	34,898	55,466	8,058	63,524
Other Africa.....	6,594	228	6,822	5,372	4,788	10,160	11,966	5,016	16,982
Pacific and Indian Ocean Islands.....	—	—	—	—	11	11	—	11	11
Totals	893,765	127,877	1,021,642	2,424,386	411,433	2,835,819	3,318,151	539,310	3,857,461
Grand totals	5,363,777	171,831	5,535,608	4,065,731	464,972	4,530,703	9,429,508	636,803	10,066,511

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

Loaded at	Registry of vessel	Cargo tons		
		Bulk	General	Total
Ports on the St. Lawrence river	Canada	7,751,709	293,617	8,045,326
	United States	478,274	—	478,274
	United Kingdom	358,963	43	359,006
	Bermuda	13,524	—	13,524
	Germany	3,165	1,000	4,165
	Netherlands	—	82	82
	Norway	29,241	4,185	33,426
	Sweden	25,949	—	25,949
	Panama	12,585	5	12,590
	Middle East	913	—	913
	Totals	8,674,323	298,932	8,973,255
Ports outside the Gulf of St. Lawrence	Canada	24,677	15,424	40,101
	United States	20,231	11,740	31,971
	United Kingdom	115,003	234,073	349,076
	Denmark	78,547	34,241	112,788
	Finland	51	18,187	18,238
	France	43,780	25,923	69,703
	Germany	32,129	327,648	359,777
	Greece	10,652	3,530	14,182
	Italy	4,596	14,045	18,641
	Netherlands	4,064	89,398	93,462
	Norway	411,410	202,358	613,768
	Sweden	73,934	62,129	136,063
	Other Europe	1,173	11,757	12,930
	Panama	18,488	12,733	31,221
	Other Central America and Caribbean	13,859	901	14,760
	Middle East	—	13,764	13,764
	Other Asia	—	1,097	1,097
	Liberia	230,574	19,598	250,172
Totals	1,083,168	1,098,546	2,181,714	
Grand totals	9,757,491	1,397,478	11,154,969	

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

Unloaded at	Registry of vessel	Cargo tons		
		Bulk	General	Total
Ports on the St. Lawrence river	Canada	5,673,377	50,223	5,723,600
	United States	46,675	100	46,775
	United Kingdom	385,496	14,916	400,412
	Denmark	3,303	22,841	26,144
	Germany	1,319	2,054	3,373
	Netherlands	—	11	11
	Norway	500	6,924	7,424
	Sweden	687	424	1,111
	Totals	6,111,357	97,493	6,208,850
	Ports outside the Gulf of St. Lawrence	Canada	5,569	18,080	23,649
United States		63,881	59,028	122,909
United Kingdom		799,217	67,362	866,579
Bermuda		9,716	—	9,716
Denmark		98,902	7,700	106,602
Finland		28,167	6,845	35,012
France		114,163	10,353	124,516
Germany		379,721	149,741	529,462
Greece		106,791	—	106,791
Italy		79,505	10,337	89,842
Netherlands		89,784	43,196	132,980
Norway		611,347	81,433	692,780
Sweden		138,952	54,361	193,313
Other Europe		20,214	1,145	21,359
Panama		161,140	7,803	168,943
Other Central America and Caribbean		25,703	—	25,703
South America		8,040	1,099	9,139
Middle East		30,661	16,849	47,510
Other Asia		11	972	983
Liberia	547,667	3,006	550,673	
Totals	3,318,151	539,310	3,857,461	
Grand totals	9,429,508	636,803	10,066,311	

TABLE 13. Cargo Tons Carried on the St. Lawrence 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	321	343	664	43,369	50,092	93,461	272.5	275	419	694	44,566	66,487	111,053	265.0
1,000 to 1,999	488	661	1,149	1,039,723	357,496	1,397,219	2,113.8	155	1,030	1,185	2,386,111	184,850	2,570,961	2,496.1
2,000 " 2,999	129	608	737	858,000	526,697	1,384,697	2,277.5	73	675	748	1,748,150	168,514	1,916,664	2,839.5
3,000 " 3,999	29	146	175	457,147	68,488	525,635	3,600.2	12	162	174	683,056	45,796	728,852	4,499.1
4,000 " 4,999	27	98	125	309,298	163,631	472,929	4,825.8	10	112	122	572,083	52,704	624,787	5,578.5
5,000 " 5,999	32	53	85	167,366	94,830	262,196	4,947.1	8	78	86	450,638	20,469	471,107	6,039.8
6,000 " 6,999	26	60	86	155,505	58,446	213,951	3,565.9	9	77	86	391,952	50,080	442,032	5,740.7
7,000 " 7,999	104	62	166	353,877	60,349	414,226	6,681.1	11	157	168	1,177,409	24,670	1,202,079	7,656.6
8,000 " 8,999	11	37	48	322,662	8,239	330,901	8,943.3	15	33	48	187,662	20,258	207,920	6,300.6
9,000 " 9,999	11	13	24	133,268	3,234	136,502	10,500.2	6	18	24	126,345	1,076	127,421	7,078.9
10,000 " 10,999	4	12	16	64,176	5,752	69,928	5,827.3	4	14	18	124,112	1,134	125,246	8,946.1
11,000 " 11,999	2	42	44	752,613	—	752,613	17,919.4	36	8	44	99,818	—	99,818	12,477.3
12,000 " 12,999	1	63	64	1,190,574	—	1,190,574	18,898.0	51	15	66	184,991	—	184,991	12,332.7
13,000 " 13,999	1	32	33	650,655	—	650,655	20,333.0	25	9	34	139,086	—	139,086	15,454.0
14,000 " 14,999	—	10	10	190,350	—	190,350	19,035.0	7	3	10	41,349	—	41,349	13,783.0
15,000 " 15,999	1	34	35	744,362	—	744,362	21,893.0	26	10	36	191,463	—	191,463	19,146.3
16,000 " 16,999	—	7	7	171,586	—	171,586	24,512.0	7	—	7	—	—	—	—
17,000 and over	—	15	15	380,957	—	380,957	25,397.1	15	—	15	—	—	—	—
Totals	1,187	2,296	3,483	7,985,488	1,397,254	9,382,742	4,086.6	745	2,620	3,565	8,548,791	636,038	9,184,829	3,257.0
Barge or scow:														
Under 1,000 gross tons	560	3	563	490	59	549	183.0	238	358	596	328,970	236	329,206	919.6
1,000 to 1,999	21	5	26	11,614	—	11,614	2,322.8	9	13	22	26,874	—	26,874	2,067.2
2,000 " 2,999	1	—	1	—	—	—	—	1	—	1	—	—	—	—
Totals	582	8	590	12,104	59	12,163	1,520.4	248	371	619	355,844	236	356,080	959.8
Tanker:														
Under 1,000 gross tons	13	86	99	34,783	—	34,783	404.5	82	15	97	17,579	—	17,579	1,171.9
1,000 to 1,999	17	230	247	595,725	—	595,725	2,590.1	208	40	248	88,949	—	88,949	2,223.7
2,000 " 2,999	5	140	145	463,893	—	463,893	3,313.5	122	19	141	43,074	—	43,074	2,267.1
3,000 " 3,999	3	4	7	6,553	—	6,553	1,638.3	—	7	7	28,760	—	28,760	4,108.6
4,000 " 4,999	—	8	8	52,403	—	52,403	6,550.4	8	1	9	5,933	—	5,933	5,933.0
5,000 " 5,999	1	—	1	—	—	—	—	—	1	1	5,467	—	5,467	5,467.0
6,000 " 6,999	2	—	2	—	—	—	—	—	2	2	10,626	—	10,626	5,313.0
7,000 " 7,999	2	9	11	80,954	—	80,954	8,994.9	5	5	10	42,280	—	42,280	8,456.0
8,000 " 8,999	4	—	4	—	—	—	—	—	5	5	50,359	—	50,359	10,071.8
9,000 " 9,999	—	4	4	41,170	—	41,170	10,292.5	—	3	3	24,186	—	24,186	8,062.0
10,000 " 10,999	11	13	24	145,483	—	145,483	11,191.0	12	9	21	85,475	—	85,475	9,497.2
11,000 " 11,999	—	2	2	25,840	—	25,840	12,920.0	2	—	2	—	—	—	—
12,000 " 12,999	6	19	25	226,830	—	226,830	11,938.4	14	8	22	93,688	—	93,688	11,711.0
13,000 " 13,999	1	6	7	86,012	—	86,012	14,335.3	3	3	6	27,997	—	27,997	9,332.3
Totals	65	521	586	1,759,646	—	1,759,646	3,377.4	456	118	574	524,373	—	524,373	4,443.8
Other vessels:														
Under 1,000 gross tons	1,481	15	1,496	253	165	418	27.9	1,520	14	1,534	500	529	1,029	73.5
1,000 to 1,999	15	—	15	—	—	—	—	15	—	15	—	—	—	—
2,000 " 2,999	19	—	19	—	—	—	—	20	—	20	—	—	—	—
3,000 " 3,999	27	—	27	—	—	—	—	14	—	14	—	—	—	—
5,000 " 5,999	2	—	2	—	—	—	—	2	—	2	—	—	—	—
6,000 " 6,999	1	—	1	—	—	—	—	1	—	1	—	—	—	—
7,000 " 7,999	1	—	1	—	—	—	—	2	—	2	—	—	—	—
8,000 " 8,999	2	—	2	—	—	—	—	2	—	2	—	—	—	—
9,000 " 9,999	1	—	1	—	—	—	—	—	—	—	—	—	—	—
11,000 " 11,999	—	—	—	—	—	—	—	1	—	1	—	—	—	—
13,000 " 13,999	—	—	—	—	—	—	—	1	—	1	—	—	—	—
15,000 " 15,999	1	—	1	—	—	—	—	—	—	—	—	—	—	—
17,000 and over	1	—	1	—	—	—	—	1	—	1	—	—	—	—
Totals	1,551	15	1,566	253	165	418	27.9	1,579	14	1,593	500	529	1,029	73.5
Grand totals	3,385	2,840	6,225	9,757,491	1,397,478	11,154,969	3,927.8	3,028	3,323	6,351	9,429,508	636,803	10,066,311	3,029.3

TABLE 14 A. Commodities Carried Upbound on the St. Lawrence 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	102,954	—	—	—	—	—
2	Corn	3,080	—	—	—	—	—
3	Barley	3,259	—	—	—	—	—
4	Grain, n.o.s.	2,405	—	—	—	—	—
5	Products of agriculture, n.o.s.	925	—	160	—	1,340	212
6	Totals	112,623	—	160	—	1,340	212
	Animals and products:						
7	Sea food	112	5,414	—	—	—	—
8	Fish and sea animal oil	731	56	—	—	—	—
9	Animals and products, n.o.s.	2,243	7	—	—	147	266
10	Totals	3,086	5,477	—	—	147	266
	Products of mines:						
11	Bituminous coal	390,159	—	—	—	—	—
12	Iron ore	1,277,498	4,980,131	15,052	—	73	3
13	Aluminum ore and concentrates	1,956	—	—	—	—	—
14	Clay and bentonite	—	4,218	—	—	5,584	22,308
15	Stone, finished	—	—	—	—	—	—
16	Petroleum, crude	208,878	—	—	—	—	—
17	Phosphate rock	37,148	—	8,755	3,677	—	—
18	Sulphur	47,970	34,618	4,815	—	—	—
19	Products of mines, n.o.s.	6,345	13,303	—	2,168	231	—
20	Totals	1,969,954	5,032,270	28,622	5,845	5,888	22,311
	Products of forests:						
21	Pulpwood	159,393	146,879	—	—	—	—
22	Lumber, shingles and lath	29,124	—	—	—	3	5
23	Veneer, plywood	—	—	—	—	159	—
24	Products of forests, n.o.s.	300	—	—	—	168	94
25	Totals	188,817	146,879	—	—	330	96
	Manufactures and miscellaneous:						
26	Gasoline	6,623	—	—	—	—	—
27	Fuel, road, and petroleum residual oils	807,125	50,318	38,509	2,495	—	—
28	Lubricating oils and greases	35,265	—	—	2,364	—	—
29	Petroleum products, refined	6,290	2,319	—	—	7	—
30	Vegetable and nut oils	2,186	—	—	—	6,449	1,344
31	Chemicals	8,240	14,150	—	—	4,020	608
32	Sodium	—	—	138	—	458	—
33	Fertilizers	17,801	—	8,029	—	22	9
34	Tar, pitch and creosote	8,919	—	—	—	—	—
35	Aluminum: bar, ingot, pig and slab	20,671	24,676	—	—	—	—
36	Alloys for steel manufacture	—	—	—	—	—	—
37	Metals and alloys, n.o.s.	100	1,781	—	—	1,300	1,629
38	Iron, pig	3,377	77,120	—	—	—	—
39	Iron and steel: billet, bloom and ingot	—	—	—	—	22	3,575
40	Iron and steel: bar, rod and slab	—	—	—	—	2,394	4,496
41	Iron and steel, n.o.s.	224	—	—	—	9,390	3,596
42	Iron and steel nails and wire	—	—	—	—	951	2,058
43	Manufactured iron and steel	—	1,653	—	—	13,899	3,651
44	Iron and steel pipe and fittings	—	—	—	—	1,500	108
45	Rails and railway track material	—	—	—	—	—	—
46	Automobiles, passenger	—	—	—	—	326	11,801
47	Cement	16,317	—	—	—	—	—
48	Woodpulp	2,172	8,422	—	—	347	—
49	Newsprint, paper	2,530	278,535	—	—	—	—
50	Wallboard	8,598	—	—	—	—	—
51	Glass	—	—	—	—	948	6,803
52	Binder twine	—	—	—	—	159	112
53	Liquors, alcoholic	—	65	—	—	4,016	16,066
54	Wine	—	—	—	—	58	47
55	Syrup and molasses, refined	—	2,412	—	—	—	—
56	Molasses, residual	—	—	—	—	—	—
57	Sugar	1,059	—	—	—	28	—
58	Food products	69	—	609	—	3,116	914
59	Scrap iron and scrap steel n.o.s.	1,762	6,064	—	—	52	2,893
60	Manufactures and miscellaneous	31,476	7,852	8,698	54	54,447	26,445
61	Totals	980,804	475,367	55,983	4,913	103,909	86,155
62	Domestic package freight	192,110	—	—	—	—	—
63	Grand totals	3,447,394	5,659,993	84,765	10,758	111,614	109,040

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

Other British Commonwealth to		Other Europe to		Other countries to		Total to		Grand total	No.
Canada	United States	Canada	United States	Canada	United States	Canada	United States		
				tons					
—	—	—	9	—	—	102,954	9	102,963	1
—	—	—	—	—	—	3,080	—	3,080	2
—	—	—	—	—	—	3,259	—	3,259	3
—	—	1	—	—	—	2,406	—	2,406	4
51	31	6,598	2,206	1,692	401	10,766	2,850	13,616	5
51	31	6,599	2,215	1,692	401	122,465	2,859	125,324	6
—	—	288	306	—	—	400	5,720	6,120	7
—	—	—	10,884	—	—	731	10,940	11,671	8
—	—	1,218	7,367	—	137	3,608	7,777	11,385	9
—	—	1,506	18,557	—	137	4,739	24,437	29,176	10
—	—	—	—	—	—	390,159	—	390,159	11
—	—	—	—	—	—	1,292,623	4,980,134	6,272,757	12
6,042	—	—	—	17,496	—	25,494	—	25,494	13
—	—	—	34	—	—	5,584	26,560	32,144	14
—	—	1,363	1,639	—	—	1,363	1,639	3,002	15
89,296	—	—	—	24,890	—	323,064	—	323,064	16
—	—	—	—	—	—	45,903	3,677	49,580	17
—	—	—	—	—	—	52,785	34,618	87,403	18
—	—	6,264	25,093	—	20,814	12,840	61,378	74,218	19
95,338	—	7,627	26,766	42,386	20,814	2,149,815	5,108,006	7,257,821	20
—	—	—	—	—	—	159,393	146,879	306,272	21
—	—	33	293	473	37	29,633	335	29,968	22
—	—	575	3,872	52	—	786	3,872	4,658	23
—	—	1,171	2,857	173	749	1,812	3,697	5,509	24
—	—	1,779	7,022	698	786	191,624	154,783	346,407	25
—	—	—	—	—	—	6,623	—	6,623	26
47,286	—	—	—	202,473	57,133	1,095,393	109,946	1,205,339	27
—	—	—	—	—	—	35,265	2,364	37,629	28
—	—	29	12,973	8,971	—	15,297	15,292	30,589	29
479	—	962	7,462	388	—	10,464	8,806	19,270	30
—	—	7,046	30,248	—	—	19,306	45,006	64,312	31
—	—	1,759	—	—	—	2,355	—	2,355	32
—	—	3,640	963	—	—	29,492	972	30,464	33
—	—	—	—	—	—	8,919	—	8,919	34
—	—	—	1,402	—	—	20,671	26,078	46,749	35
—	—	1,275	19,603	—	—	1,275	19,603	20,878	36
—	—	1,529	11,837	36	—	2,965	15,247	18,212	37
—	—	41	15,069	—	—	3,418	92,189	95,607	38
—	—	26	4	—	—	48	3,579	3,627	39
—	—	3,383	51,233	—	—	5,777	55,729	61,506	40
—	—	27,341	144,945	—	4	36,955	148,545	185,500	41
—	—	2,700	16,287	—	—	3,651	18,345	21,996	42
—	—	25,460	220,373	—	3	39,359	225,680	265,039	43
—	—	208	245	—	—	1,708	353	2,061	44
—	—	3,114	3,765	—	—	3,114	3,765	6,879	45
—	—	12,103	11,488	—	1	12,429	23,290	35,719	46
—	—	2,899	—	—	—	19,216	—	19,216	47
—	—	1,961	75,779	—	—	4,480	84,201	88,681	48
—	—	—	33	—	—	2,530	278,568	281,098	49
—	—	1,441	3,675	—	430	10,039	4,105	14,144	50
—	—	5,368	13,556	—	—	6,316	20,359	26,675	51
—	—	1,296	6,077	3	219	1,458	6,408	7,866	52
—	6	210	52	—	2	4,226	16,191	20,417	53
—	—	532	2,641	—	—	590	2,688	3,278	54
5,586	10,857	5	3	—	8,736	5,591	22,008	27,599	55
9,406	6,597	—	—	5,771	22,102	15,177	28,699	43,878	56
39,325	—	3	—	68,182	6,970	108,597	6,970	115,567	57
—	—	14,162	21,120	731	10	18,687	22,044	40,731	58
—	—	1	9,728	—	—	1,815	18,685	20,500	59
109	49	68,805	125,617	1,299	359	164,834	160,376	325,210	60
102,191	17,509	187,299	806,178	287,854	95,969	1,718,040	1,486,091	3,204,131	61
—	—	—	—	—	—	192,110	—	192,110	62
197,580	17,540	204,810	860,738	332,630	118,107	4,378,793	6,776,176	11,154,969	63

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

No.	Commodity	Canada to						Total
		Canada	United States	United Kingdom	Other British Commonwealth	Other Europe	Other countries	
		tons						
	Products of agriculture:							
1	Wheat	2,758,077	—	166,760	—	76,542	36,522	3,037,901
2	Corn	23,281	—	14,785	—	34,396	—	72,462
3	Oats	274,873	—	—	—	6,880	—	281,753
4	Barley	315,625	—	95,500	—	12,587	—	423,712
5	Rye	13,797	—	—	—	—	—	13,797
6	Grain, n.o.s.	4,576	—	106	—	565	—	5,247
7	Flour, wheat	16,341	—	16,333	6,887	—	17,904	57,465
8	Meal, corn	—	—	—	—	—	—	—
9	Mill products, n.o.s.	10,110	—	1,705	—	25	—	11,840
10	Cottonseed oil, cake and meal	—	—	—	—	—	—	—
11	Soybeans	59,899	—	8,745	—	—	—	68,644
12	Soybean oil cake and meal	12,878	—	125,145	—	10	—	138,033
13	Vegetable and nut oil, cake and meal	—	—	5,562	—	—	—	5,562
14	Beans and peas, dried	—	—	3,062	1	—	—	3,063
15	Malt	50,655	—	377	—	25	—	51,057
16	Flaxseed	109,717	—	41,463	—	1,680	2	152,862
17	Products of agricultures, n.o.s.	493	—	2,230	—	1,412	13	4,148
18	Totals	3,650,322	—	481,773	6,888	134,122	54,441	4,327,546
	Animals and products:							
19	Meats, fresh	—	—	—	—	—	—	—
20	Packing house products	—	—	165	—	102	—	267
21	Hides, skins and pelts	—	—	210	—	1,992	—	2,202
22	Animals and products n.o.s.	325	—	5,562	587	3,413	744	10,631
23	Totals	325	—	5,937	587	5,507	744	13,100
	Products of mines:							
24	Bituminous coal	20,408	—	—	—	—	—	20,408
25	Coke	—	—	14,529	—	5	—	14,534
26	Zinc ore and concentrates	—	—	—	—	8,653	—	8,653
27	Clay and bentonite	—	—	—	—	—	—	—
28	Gravel and sand	326,140	—	—	—	—	—	326,140
29	Stone rough	—	—	—	—	—	—	—
30	Asphalt	300	—	—	—	—	—	300
31	Salt	20,639	—	—	—	—	—	20,639
32	Products of mines, n.o.s.	2,669	—	136	—	96	826	3,727
33	Totals	370,156	—	14,665	—	6,754	826	392,401
	Products of forests:							
34	Lumber shingles and lath	1,687	—	671	—	142	28	2,528
35	Products of forests n.o.s.	750	—	2,067	—	678	2	3,497
36	Totals	2,437	—	2,738	—	820	30	6,025
	Manufactures and miscellaneous:							
37	Gasoline	35,346	—	—	—	—	—	35,346
38	Fuel, road and petroleum residual oils	197	—	—	—	—	—	197
39	Lubricating oils and greases	1,434	—	—	—	—	—	1,434
40	Petroleum products refined	15,260	—	130	—	3	—	15,393
41	Soybean oil	2,638	—	7,933	—	741	—	11,312
42	Rubber	—	—	1,409	—	15,741	800	17,950
43	Chemicals	18,364	—	19,246	—	1,684	2,392	41,686
44	Tar, pitch and creosote	21,881	—	—	—	—	—	21,881
45	Metals and alloys	118	—	6,820	—	7,893	454	15,285
46	Iron and steel: billet, bloom and ingot	193	—	—	—	—	99	292
47	Iron and steel: bar, rod and slab	1,377	—	—	—	455	509	2,341
48	Iron and steel, n.o.s.	598	—	98	—	109	215	1,020
49	Manufactured iron and steel	7,179	—	2	—	566	2,758	10,505
50	Machinery and machines	685	—	—	—	—	108	793
51	Machinery parts	50	—	—	—	5	65	120
52	Rails and railway track material	—	—	—	—	—	—	—
53	Automobiles, passenger and freight	2	—	144	—	1,367	168	1,681
54	Vehicle parts	—	—	—	—	—	—	—
55	Cement	7,454	—	—	—	—	—	7,454
56	Building materials	3,783	—	—	—	—	—	3,783
57	Electrical equipment and parts	—	—	—	—	317	24	341
58	Food products	29,290	3	1,755	236	3,875	5,595	40,754
59	Feed, animal and poultry	107,748	—	25,492	75	8,776	30	142,121
60	Scrap iron and steel	—	—	—	—	10,693	26,315	37,008
61	Furnace slag	10,189	—	—	—	—	—	10,189
62	Waste materials for remelting	—	—	—	—	3,166	617	3,783
63	Manufactures and miscellaneous, n.o.s.	34,850	111	5,379	430	14,831	8,805	64,405
64	Totals	298,636	114	68,408	741	70,422	48,954	487,215
65	Domestic package freight	309,261	—	—	—	—	—	309,261
66	Grand totals	4,631,137	114	573,521	8,216	217,625	104,995	5,535,308

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

Canada	United States to						Grand total	No.
	United States	United Kingdom	Other British Commonwealth	Other Europe	Other countries	Total		
tons								
130,586	—	30,836	50	153,337	131,739	446,548	3,484,449	1
410,892	—	241,735	—	236,429	1,612	890,668	963,130	2
9,376	—	560	30	441,448	—	451,414	733,167	3
68,013	—	51,341	—	453,177	—	572,531	996,243	4
3,168	—	—	—	7,033	—	10,201	23,998	5
—	—	20	—	11,198	110	11,328	16,575	6
—	—	1,228	672	88,977	46,942	137,819	195,284	7
—	—	—	—	13,820	13,109	26,929	26,929	8
—	—	—	—	36,736	968	37,704	49,544	9
—	—	7,050	—	2,100	—	9,150	9,150	10
83,687	—	1,146	—	89,517	—	174,350	242,994	11
—	—	2,522	—	10,728	—	13,250	151,283	12
—	—	—	—	3,269	—	3,269	8,831	13
—	—	53,170	—	16,370	1,512	71,052	74,115	14
68,021	—	5,617	38	104,779	8,228	8,264	59,321	15
33	—	3,872	40	9,894	—	178,417	331,279	16
773,776	—	399,097	830	1,678,812	206,808	3,059,323	7,386,869	18
—	—	332	—	4,007	—	4,339	4,339	19
—	—	83,747	31	25,539	174	109,491	109,758	20
—	—	1,996	—	10,679	104	12,779	14,981	21
—	—	8,181	106	60,570	493	69,350	79,981	22
—	—	94,256	137	100,795	771	195,959	209,059	23
726,501	—	—	—	—	—	726,501	746,909	24
3,655	—	157	—	12,841	—	16,653	31,187	25
—	—	—	—	—	—	—	6,653	26
—	—	7,018	—	11,043	30	18,091	18,091	27
—	—	—	—	—	28	28	326,168	28
7,372	—	—	—	—	—	7,372	7,372	29
—	—	1,033	—	4,522	—	5,555	5,855	30
26,992	—	—	—	—	9	87,001	107,640	31
7,962	—	679	—	607	129	4,377	8,104	32
827,482	—	8,887	—	29,013	196	865,578	1,257,979	33
—	—	1,027	—	372	21	1,420	3,948	34
328	—	733	2	2,048	222	3,333	6,830	35
328	—	1,760	2	2,420	243	4,753	10,778	36
—	—	—	—	—	—	—	35,346	37
1,804	19,321	47	—	25	—	21,197	21,394	38
6,367	—	226	—	2,033	47	8,673	10,107	39
—	4,581	2,340	8	7,502	163	14,594	29,987	40
—	—	—	—	547	35	582	11,894	41
—	—	181	—	5,334	—	5,515	23,465	42
2,315	—	1,658	—	13,010	1,259	18,242	59,928	43
—	—	—	—	141	—	141	22,022	44
—	—	736	—	727	—	1,463	16,748	45
4,114	—	—	—	—	—	4,114	4,406	46
60	1,522	35	—	117	1	1,735	4,076	47
9,318	—	668	2	2,312	416	12,716	13,736	48
13,361	404	92	—	5,764	—	20,954	31,459	49
—	—	393	—	2,812	—	4,390	5,183	50
3,907	—	—	—	139	—	4,046	4,166	51
25,995	—	—	—	—	—	25,995	25,995	52
424	2	40	—	6,104	3,754	10,324	12,005	53
—	—	364	—	1,238	2,732	4,334	4,334	54
—	—	—	—	100	—	100	7,554	55
—	—	—	—	—	—	—	3,783	56
—	—	—	—	3,478	—	3,478	3,819	57
31	—	549	400	35,489	17,665	54,134	94,888	58
931	—	2	25	25,262	2,307	28,527	170,648	59
—	—	4	—	6,006	10,907	16,917	54,125	60
—	—	83	—	—	—	83	10,272	61
813	—	3,810	—	8,782	55	12,647	16,430	62
—	—	11,552	622	83,299	33,903	130,189	194,595	63
69,440	25,830	22,780	1,057	210,221	75,762	405,090	892,365	64
—	—	—	—	—	—	—	309,261	65
1,671,026	25,830	526,780	2,026	2,021,261	283,780	4,530,703	10,066,311	66

WELLAND CANAL

TABLE 15. Location and Description

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

TABLE 16. Historical Summary, 1950-59

Registry of vessel	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Vessel transits										
Upbound:										
Canada	2,813	3,089	3,560	3,598	3,140	3,260	3,366	3,195	3,007	2,604
United States	897	944	992	907	900	1,094	985	991	852	789
United Kingdom .....	..	..	..	..	..	31	41	44	57	226
Other foreign	107	99	155	283	262	312	324	372	489	727
Totals	3,817	4,132	4,707	4,788	4,302	4,697	4,716	4,602	4,405	4,346
Downbound:										
Canada	2,691	2,999	3,399	3,462	3,080	3,245	3,298	3,191	2,978	2,554
United States	819	883	893	854	836	1,053	985	953	815	778
United Kingdom .....	..	..	..	..	..	33	40	42	53	242
Other foreign	109	99	159	268	261	306	321	366	485	729
Totals	3,619	3,981	4,451	4,584	4,177	4,637	4,644	4,552	4,331	4,303
Grand totals	7,436	8,113	9,158	9,372	8,479	9,334	9,360	9,154	8,736	8,649
Registered net tons										
Upbound:										
Canada	5,304,371	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
United States	1,293,247	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
United Kingdom .....	..	..	..	..	..	21,080	28,840	29,235	36,774	724,092
Other foreign	79,437	73,605	116,301	214,824	217,187	259,013	275,406	314,429	411,234	1,574,929
Totals	6,677,055	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
Downbound:										
Canada	5,122,814	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
United States	1,277,975	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
United Kingdom .....	..	..	..	..	..	22,968	28,067	28,166	34,047	755,799
Other foreign	81,598	75,467	121,142	205,485	217,603	251,551	270,682	307,547	403,892	1,582,943
Totals	6,482,387	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
Grand totals	13,159,442	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
Cargo tons										
Upbound:										
Canada .....	..	..	..	..	..	3,285,976	4,183,451	4,403,553	4,179,508	7,073,632
United States .....	..	..	..	..	..	687,670	566,891	465,645	433,776	894,109
United Kingdom .....	..	..	..	..	..	25,573	32,756	16,832	34,970	562,631
Other foreign .....	..	..	..	..	..	260,773	286,214	254,642	357,333	1,066,194
Totals	2,732,007	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
Downbound:										
Canada .....	..	..	..	..	..	14,100,847	15,373,069	14,258,609	13,666,961	12,313,690
United States .....	..	..	..	..	..	2,201,827	2,294,298	2,605,432	2,124,193	1,835,374
United Kingdom .....	..	..	..	..	..	16,503	32,028	35,615	43,477	1,119,736
Other foreign .....	..	..	..	..	..	314,403	297,554	332,210	433,976	2,640,658
Totals	12,008,566	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
Grand totals	14,740,573	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
Season of navigation										
First vessel passage	March 30	March 29	March 27	March 28	March 25	March 30	March 31	March 30	April 1	April 1
Last vessel passage	Dec. 20	Dec. 20	Dec. 19	Dec. 20	Dec. 17	Dec. 17	Dec. 20	Dec. 18	Dec. 18	Dec. 18

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	1,333	1,565	2,898	9,425,300	13,876,391	8,141,069	24
Passenger-cargo	11	14	25	60,396	108,270	22,149	1,928
Cargo-passenger	19	237	256	411,045	718,155	342,471	102
Scow, barge, etc.	129	139	268	269,709	272,955	305,521	1
Tanker	175	227	402	789,822	1,271,713	784,031	—
Tug or dredge	362	1	363	27,499	50,170	1,325	41
Pleasure craft over 40 ft.	56	—	56	1,513	1,978	—	51
Naval or Government	72	—	72	117,091	190,354	—	4
All other types	6	—	6	560	662	—	6
Totals	2,163	2,183	4,346	11,102,935	16,490,648	9,596,566	2,157
Downbound:							
Cargo	197	2,665	2,862	9,386,833	13,864,231	15,997,756	27
Passenger-cargo	6	21	27	67,188	120,318	43,741	2,143
Cargo-passenger	—	211	211	359,616	634,569	498,957	120
Scow, barge, etc.	106	153	259	242,917	243,863	347,576	5
Tanker	155	257	412	783,348	1,260,566	1,021,428	1
Tug or dredge	355	—	355	27,774	48,139	—	8
Pleasure craft over 40 ft.	64	—	64	1,095	1,440	—	89
Naval or Government	83	—	83	144,363	211,870	—	—
All other types	10	—	10	869	1,268	—	6
Totals	976	3,327	4,303	11,014,001	16,386,264	17,909,458	2,399
Grand totals	3,139	5,510	8,649	22,116,936	32,876,912	27,506,024	4,556

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	1,343	1,261	2,604	7,440,456	10,670,203	7,073,832	211
United States	561	228	789	1,363,458	1,855,403	894,109	1,614
United Kingdom	71	155	226	724,092	1,261,056	562,631	38
Bermuda	—	1	1	7,751	12,721	13,524	—
Denmark	19	9	28	47,681	87,160	27,839	—
Finland	2	12	14	12,883	25,398	17,321	2
France	5	19	24	90,341	156,106	20,640	1
Germany	14	195	209	272,965	473,797	263,063	23
Greece	12	1	13	58,297	95,533	6,135	—
Italy	6	16	22	47,991	84,729	8,241	—
Netherlands	4	44	48	83,227	144,995	76,579	242
Norway	34	139	173	357,753	610,628	358,887	21
Sweden	10	63	73	118,812	222,724	135,479	4
Other Europe	2	3	5	12,390	23,299	11,156	—
Panama	13	6	19	82,160	135,552	10,368	—
Other Central America and Caribbean	5	2	7	25,763	43,104	5,112	—
Middle East	—	11	11	19,792	36,192	9,910	—
Liberia	62	18	80	337,123	552,048	101,940	1
Totals	2,163	2,183	4,346	11,102,935	16,490,648	9,596,566	2,157
Downbound:							
Canada	553	2,001	2,554	7,266,006	10,424,205	12,313,690	436
United States	374	404	778	1,409,253	1,905,303	1,835,374	1,648
United Kingdom	31	211	242	755,799	1,325,575	1,119,736	33
Bermuda	—	1	1	7,751	12,721	9,716	—
Denmark	—	31	31	59,052	107,277	130,106	5
Finland	—	13	13	12,645	22,770	30,254	—
France	—	24	24	90,514	157,044	122,633	—
Germany	2	207	209	275,010	481,831	447,401	22
Greece	—	14	14	63,115	103,797	105,791	—
Italy	—	22	22	50,005	82,715	81,813	—
Netherlands	3	45	48	82,441	144,963	105,446	203
Norway	4	171	175	362,381	638,754	657,415	48
Sweden	3	70	73	118,264	222,135	174,675	4
Other Europe	1	3	4	6,731	13,149	8,464	—
Panama	—	23	23	94,729	156,194	168,268	—
Other Central America and Caribbean	—	3	3	13,195	22,462	25,703	—
South America	—	1	1	4,391	7,170	8,040	—
Middle East	—	12	12	23,961	43,444	43,907	—
Liberia	5	71	76	318,758	514,755	521,026	—
Totals	976	3,327	4,303	11,014,001	16,386,264	17,909,458	2,399
Grand totals	3,139	5,510	8,649	22,116,936	32,876,912	27,506,024	4,556

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	209	—	209	5,065	13,116	—	63
80 to 119 feet	251	20	271	38,735	54,227	14,849	19
120 " 159 "	58	15	73	27,957	30,626	11,897	16
160 " 199 "	14	15	29	15,864	22,253	7,477	1
200 " 239 "	70	155	225	248,406	274,533	298,078	—
240 " 279 "	566	1,023	1,589	2,025,397	3,129,185	2,328,136	11
280 " 319 "	49	104	153	201,226	331,812	167,198	417
320 " 359 "	57	168	225	440,329	696,665	534,892	1,294
360 " 399 "	73	107	180	402,690	661,957	309,261	39
400 " 439 "	179	96	275	846,734	1,292,665	368,682	32
440 " 479 "	191	151	342	1,321,199	2,135,201	533,424	264
480 " 519 "	126	77	203	928,595	1,403,028	656,870	—
520 " 559 "	90	52	142	644,862	1,222,240	567,868	1
560 " 599 "	49	40	89	616,607	858,116	532,313	—
600 " 639 "	51	43	94	704,184	999,455	715,906	—
640 " 679 "	84	55	139	1,255,651	1,741,620	1,131,174	—
680 " 719 "	46	62	108	1,177,434	1,623,949	1,418,539	—
Totals	2,163	2,183	4,346	11,102,935	16,490,648	9,596,566	2,157
Downbound:							
Under 80 feet	233	—	233	16,023	23,548	—	102
80 to 119 feet	248	11	259	37,320	52,272	12,938	6
120 " 159 "	70	8	78	29,777	32,318	3,732	—
160 " 199 "	28	1	29	25,072	35,660	2	—
200 " 239 "	18	203	221	237,967	268,472	405,981	—
240 " 279 "	186	1,367	1,553	1,985,679	3,067,419	3,573,287	18
280 " 319 "	16	132	148	193,697	322,047	319,796	461
320 " 359 "	22	197	219	424,813	676,428	826,661	1,502
360 " 399 "	19	150	169	363,499	602,900	593,136	44
400 " 439 "	10	260	270	827,055	1,269,011	1,543,763	20
440 " 479 "	34	324	358	1,378,201	2,217,737	1,898,249	246
480 " 519 "	15	180	195	914,061	1,374,546	1,478,341	—
520 " 559 "	15	127	142	846,652	1,224,841	1,282,080	—
560 " 599 "	4	84	88	600,784	849,614	976,854	—
600 " 639 "	4	91	95	708,684	1,014,266	1,349,750	—
640 " 679 "	20	118	138	1,243,927	1,728,934	2,144,577	—
680 " 719 "	34	74	108	1,180,790	1,626,251	1,500,311	—
Totals	976	3,327	4,303	11,014,001	16,386,264	17,909,458	2,399
Grand totals	3,139	5,510	8,649	22,116,936	32,876,912	27,506,024	4,556

TABLE 20. Number and Tonnage of Vessels Using the Welland Section of the Seaway by Origin and Destination

Port of origin or destination and country of registry	Upbound								
	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	778	1,624,376	2,408,401	673	2,811,801	3,969,893	1,451	4,436,177	6,378,294
United States	25	51,444	58,857	300	621,191	815,123	325	672,635	873,980
United Kingdom	7	14,501	26,547	—	—	—	7	14,501	26,547
Germany	5	3,433	6,260	3	2,090	4,315	8	5,523	10,575
Norway	1	1,000	1,976	1	1,529	2,919	2	2,529	4,895
Totals	816	1,694,754	2,502,041	977	3,436,611	4,792,250	1,793	5,131,365	7,294,291
Originating at ports on the St. Lawrence river:									
Registry:									
Canada	404	669,834	993,451	728	2,321,577	3,277,506	1,132	2,991,411	4,270,957
United States	5	21,271	30,712	62	206,378	296,721	67	227,649	327,433
United Kingdom	29	119,470	205,667	40	220,800	370,232	69	340,270	575,949
Bermuda	—	—	—	1	7,751	12,721	1	7,751	12,721
Denmark	1	710	1,176	5	9,099	16,643	6	9,809	17,819
Finland	—	—	—	1	749	1,413	1	749	1,413
France	—	—	—	2	16,782	27,170	2	16,782	27,170
Germany	1	651	1,361	3	8,597	15,112	4	9,248	16,473
Greece	1	4,380	7,282	3	14,060	23,432	4	18,440	30,714
Italy	—	—	—	2	7,881	14,126	2	7,881	14,126
Netherlands	—	—	—	2	1,612	3,070	2	1,612	3,070
Norway	2	5,300	9,118	14	62,078	87,430	16	67,378	96,543
Sweden	1	2,166	3,863	6	24,942	45,815	7	27,008	49,673
Other Europe	—	—	—	1	1,356	2,848	1	1,356	2,848
Panama	1	4,283	7,074	3	22,743	38,261	4	27,026	45,233
Other Central America ¹	1	3,604	6,656	—	—	—	1	3,604	6,656
Liberia	7	33,054	52,587	24	116,398	188,050	31	149,452	240,637
Totals	453	864,723	1,318,947	897	3,042,703	4,420,600	1,350	3,907,426	5,739,547

¹ Includes Caribbean countries.

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

Part of origin or destination and country of registry	Upbound								
	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	10	7,213	11,673	11	5,655	9,279	21	12,868	20,952
United States	22	15,586	19,098	375	447,598	634,892	397	463,174	653,990
United Kingdom	11	25,291	46,927	139	344,030	611,633	150	369,321	658,560
Denmark	7	4,590	9,033	15	33,282	60,308	22	37,872	69,341
Finland	—	—	—	13	12,134	23,985	13	12,134	23,985
France	—	—	—	22	73,559	129,936	22	73,559	128,936
Germany	6	6,999	13,008	191	251,195	433,741	197	258,194	446,749
Greece	3	13,290	21,490	6	26,567	43,329	9	39,857	64,819
Italy	1	4,379	7,176	19	35,731	63,427	20	40,110	70,603
Netherlands	1	5,048	7,240	45	76,567	134,685	46	81,615	141,925
Norway	19	20,407	51,455	136	257,429	457,730	155	287,846	509,185
Sweden	5	8,174	14,305	61	82,630	152,741	66	91,804	173,046
Other Europe	1	1,174	2,451	3	9,860	18,000	4	11,034	20,451
Panama	2	8,570	14,151	13	46,564	76,066	15	55,134	90,217
Other Central America ¹	3	10,145	17,197	3	12,014	19,251	6	22,159	36,442
Middle East	—	—	—	11	19,792	36,192	11	19,792	36,192
Liberia	10	44,149	72,700	29	143,522	238,711	49	197,671	311,411
Totals	101	185,015	307,904	1,102	1,879,129	3,148,906	1,203²	2,064,144	3,456,810
Grand totals	1,370	2,744,492	4,128,892	2,976	8,358,443	12,361,756	4,346	11,102,935	16,490,648
Downbound									
Originating in									
Canada			United States			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	
Destined to ports on Lake Ontario:									
Registry:									
Canada	1,474	4,879,096	6,990,618	12	14,152	23,961	1,486	4,893,248	7,014,579
United States	209	667,796	896,784	109	161,393	213,875	318	829,189	1,110,659
United Kingdom	2	675	1,416	—	—	—	2	675	1,416
Germany	1	345	763	—	—	—	1	345	763
Norway	2	3,058	5,836	—	—	—	2	3,058	5,836
Totals	1,688	5,550,970	7,895,419	121	175,545	237,836	1,809	5,726,515	8,133,255
Destined to ports on the St. Lawrence river:									
Registry:									
Canada	1,054	2,364,011	3,394,467	1	30	112	1,055	2,364,041	3,394,579
United States	28	83,344	120,054	9	7,833	10,063	37	91,177	130,117
United Kingdom	67	271,190	461,637	—	—	—	67	271,190	461,637
Denmark	5	9,824	18,296	—	—	—	5	9,824	18,296
Germany	2	3,410	5,918	—	—	—	2	3,410	5,918
Norway	3	5,815	9,848	—	—	—	3	5,815	9,848
Sweden	2	1,766	3,223	—	—	—	2	1,766	3,223
Panama	1	7,431	12,618	—	—	—	1	7,431	12,618
Liberia	2	5,872	9,974	—	—	—	2	5,872	9,974
Totals	1,164	2,752,663	4,036,035	10	7,863	10,175	1,174	2,760,526	4,046,210
Destined to ports outside the Gulf of St. Lawrence:									
Registry:									
Canada	13	8,717	15,047	—	—	—	13	8,717	15,047
United States	7	6,453	10,810	416	482,434	853,717	423	498,887	664,527
United Kingdom	29	60,341	106,230	144	423,593	756,292	173	483,934	862,522
Bermuda	—	—	—	1	7,751	12,721	1	7,751	12,721
Denmark	—	—	—	26	49,228	88,981	26	49,228	88,981
Finland	—	—	—	13	12,645	22,770	13	12,645	22,770
France	—	—	—	24	90,514	157,044	24	90,514	157,044
Germany	—	—	—	206	271,255	475,150	206	271,255	475,150
Greece	—	—	—	14	63,115	103,797	14	63,115	103,797
Italy	—	—	—	22	50,005	82,715	22	50,005	82,715
Netherlands	2	532	998	46	81,909	143,965	48	82,441	144,963
Norway	2	2,178	3,736	162	351,330	619,332	170	353,508	623,068
Sweden	1	368	910	70	116,110	218,002	71	116,498	218,912
Other Europe	—	—	—	4	6,731	13,149	4	6,731	13,149
Panama	—	—	—	22	87,298	143,576	22	87,298	143,576
Other Central America ¹	—	—	—	3	13,195	22,462	3	13,195	22,462
South America	—	—	—	1	4,391	7,170	1	4,391	7,170
Middle East	—	—	—	12	23,961	43,444	12	23,961	43,444
Liberia	—	—	—	74	312,886	504,701	74	312,886	504,781
Totals	54	78,609	137,731	1,266	2,448,351	4,069,068	1,320²	2,526,960	4,206,799
Grand totals	2,906	8,382,242	12,069,185	1,397	2,631,759	4,317,079	4,303	11,014,001	16,386,264

¹ Including Caribbean countries.² Includes traffic moving via the New York State Barge canal.

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	1,888	6,488,602	9,374,033	647	919,846	1,261,426	69	32,008	34,744	2,604	7,440,456	10,670,203
United States	216	956,480	1,373,190	363	162,896	235,362	210	244,082	246,851	789	1,363,458	1,855,403
United Kingdom	94	284,641	499,261	132	439,451	761,795	—	—	—	226	724,092	1,261,056
Bermuda	—	—	—	1	7,751	12,721	—	—	—	1	7,751	12,721
Denmark	8	12,614	24,126	20	35,067	63,034	—	—	—	28	47,681	87,160
Finland	11	7,988	15,903	3	4,895	9,495	—	—	—	14	12,883	25,398
France	1	1,161	2,309	23	89,180	153,797	—	—	—	24	90,341	156,106
Germany	9	11,443	21,310	200	261,522	452,487	—	—	—	209	272,965	473,797
Greece	12	53,064	86,503	1	5,233	9,030	—	—	—	13	58,297	95,533
Italy	2	5,558	9,362	20	42,433	75,367	—	—	—	22	47,991	84,729
Netherlands	—	—	—	48	83,227	144,995	—	—	—	48	83,227	144,995
Norway	17	30,951	51,816	156	326,802	558,812	—	—	—	173	357,753	610,628
Sweden	7	11,130	20,174	66	107,682	202,550	—	—	—	73	118,812	222,724
Other Europe	1	2,988	5,368	4	9,402	17,931	—	—	—	5	12,390	23,299
Panama	8	41,398	68,686	11	40,762	66,866	—	—	—	19	82,160	135,552
Other Central America ¹	7	25,763	43,104	—	—	—	—	—	—	7	25,763	43,104
Middle East	—	—	—	11	19,792	36,192	—	—	—	11	19,792	36,192
Liberia	65	256,780	423,683	15	80,343	128,365	—	—	—	80	337,123	552,048
Totals	2,346	8,190,561	12,018,828	1,721	2,636,284	4,190,225	279	276,090	281,595	4,346	11,102,935	16,490,648
Downbound:												
Canada	1,848	6,377,552	9,215,591	616	862,781	1,182,626	90	25,673	25,988	2,554	7,266,006	10,424,205
United States	235	1,023,894	1,453,408	352	154,731	220,054	191	230,628	231,841	778	1,409,253	1,905,303
United Kingdom	96	297,172	525,779	146	458,627	799,796	—	—	—	242	755,799	1,325,575
Bermuda	—	—	—	1	7,751	12,721	—	—	—	1	7,751	12,721
Denmark	11	14,136	27,032	20	44,916	80,245	—	—	—	31	59,052	107,277
Finland	11	8,422	14,672	2	4,223	8,098	—	—	—	13	12,645	22,770
France	—	—	—	24	90,514	157,044	—	—	—	24	90,514	157,044
Germany	10	16,738	29,362	199	258,272	452,469	—	—	—	209	275,010	481,831
Greece	11	48,617	79,268	3	14,498	24,529	—	—	—	14	63,115	103,797
Italy	1	4,379	7,176	21	45,626	75,539	—	—	—	22	50,005	82,715
Netherlands	—	—	—	48	82,441	144,963	—	—	—	48	82,441	144,963
Norway	16	29,445	51,221	159	332,936	587,533	—	—	—	175	362,381	638,754
Sweden	4	7,162	13,113	69	111,102	209,022	—	—	—	73	118,264	222,135
Other Europe	1	1,356	2,848	3	5,375	10,301	—	—	—	4	6,731	13,149
Panama	13	57,945	96,515	10	36,784	59,679	—	—	—	23	94,729	156,194
Other Central America ¹	3	13,195	22,462	—	—	—	—	—	—	3	13,195	22,462
South America	1	4,391	7,170	—	—	—	—	—	—	1	4,391	7,170
Middle East	1	4,449	7,252	11	19,512	36,192	—	—	—	12	23,961	43,444
Liberia	61	238,113	385,659	15	80,645	129,096	—	—	—	76	318,758	514,755
Totals	2,323	8,146,966	11,938,528	1,699	2,610,734	4,189,907	281	256,301	257,829	4,303	11,014,001	16,386,264
Grand totals	4,669	16,337,527	23,957,356	3,420	5,247,018	8,380,132	560	532,391	539,424	8,649	22,116,936	32,876,912

¹ Including 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	9	1,559	2,008	10	1,861	2,379	19	3,420	4,387
120 " 159 "	13	2,743	4,524	12	2,875	4,365	25	5,618	8,889
160 " 199 "	13	3,432	7,178	10	2,710	5,655	23	6,142	12,833
200 " 239 "	41	23,276	44,293	46	26,198	50,581	87	49,474	94,874
240 " 279 "	1,306	1,677,057	2,583,818	1,250	1,591,190	2,460,289	2,556	3,268,247	5,044,107
280 " 319 "	114	156,495	262,611	111	154,027	257,034	225	310,522	519,645
320 " 359 "	207	405,111	644,211	200	387,886	620,385	407	792,997	1,264,596
360 " 399 "	159	354,392	569,939	152	332,859	542,416	311	687,251	1,112,355
400 " 439 "	266	814,556	1,239,454	262	798,705	1,219,041	528	1,613,261	2,458,495
440 " 479 "	324	1,245,812	2,013,071	345	1,322,012	2,128,536	669	2,567,824	4,141,607
480 " 519 "	187	845,682	1,258,519	180	818,478	1,220,273	367	1,664,158	2,478,792
520 " 559 "	116	665,937	931,628	116	665,315	929,294	232	1,331,252	1,860,922
560 " 599 "	84	578,220	792,169	85	576,120	809,419	169	1,154,340	1,601,588
600 " 639 "	94	704,184	999,455	95	708,684	1,014,266	189	1,412,868	2,013,721
640 " 679 "	138	1,240,851	1,725,989	138	1,243,927	1,728,934	276	2,484,778	3,454,923
680 " 719 "	108	1,177,434	1,623,949	108	1,180,790	1,626,251	216	2,358,224	3,250,200
Totals	3,179	9,896,741	14,702,816	3,120	9,813,635	14,619,118	6,299	19,710,376	29,321,934
Barge and Scow:									
Under 80 feet	9	311	644	14	497	528	23	808	1,172
80 to 119 feet	34	16,026	16,026	36	15,870	16,135	70	31,896	32,161
120 " 159 "	45	17,788	17,789	47	18,986	18,987	92	36,774	36,776
160 " 199 "	3	2,736	2,736	1	1,057	1,057	4	3,793	3,793
200 " 239 "	168	210,659	211,056	156	195,579	196,175	324	406,238	407,231
240 " 279 "	4	4,852	5,394	2	2,015	2,043	6	6,867	7,437
280 " 319 "	—	—	—	1	1,031	1,056	1	1,031	1,056
320 " 359 "	2	4,876	5,097	—	—	—	2	4,876	5,097
400 " 439 "	—	—	—	1	3,052	3,052	1	3,052	3,052
440 " 479 "	3	12,461	14,213	1	4,830	4,830	4	17,291	19,043
Totals	268	269,709	272,955	259	242,917	243,863	527	512,626	516,818
Tanker:									
200 to 239 feet	13	11,299	15,567	17	15,616	21,402	30	26,915	36,969
240 " 279 "	278	341,138	537,123	285	349,099	549,488	563	690,237	1,086,611
280 " 319 "	31	32,864	54,055	32	33,818	56,117	63	66,682	110,172
320 " 359 "	15	29,209	44,993	16	31,666	48,320	31	60,875	93,313
360 " 399 "	3	8,621	13,555	4	11,419	18,235	7	20,040	31,790
400 " 439 "	6	22,922	40,092	6	22,922	40,092	12	45,844	80,184
440 " 479 "	11	44,744	75,760	10	39,779	68,153	21	84,523	143,913
480 " 519 "	14	79,713	134,009	13	73,028	123,017	27	152,741	257,026
520 " 559 "	26	178,925	290,612	26	181,337	295,547	52	360,262	586,159
560 " 599 "	5	40,387	65,947	3	24,664	40,195	8	65,051	106,142
Totals	402	789,822	1,271,713	412	783,348	1,260,566	814	1,573,170	2,532,279
Tug or dredge:									
Under 80 feet	142	3,868	11,371	149	4,170	11,409	291	8,038	22,780
80 to 119 feet	209	17,285	31,250	192	15,971	28,770	401	33,256	60,020
120 " 159 "	9	4,343	4,639	11	4,400	4,615	20	8,743	9,254
160 " 199 "	1	382	769	1	119	175	2	501	944
200 " 239 "	1	96	141	1	119	175	2	215	316
Totals	362	25,974	48,170	354	24,779	45,144	716	50,753	93,314
Other vessels:									
Under 80 feet	58	886	1,101	70	11,356	11,611	128	12,242	12,712
80 to 119 feet	19	3,865	4,943	21	3,818	4,988	40	7,463	9,931
120 " 159 "	6	3,083	3,674	8	3,516	4,351	14	6,599	8,025
160 " 199 "	12	9,314	11,570	17	21,186	28,773	29	30,500	40,343
200 " 239 "	2	3,076	3,476	1	455	1,196	3	3,531	4,672
240 " 279 "	1	2,350	2,850	16	43,375	55,599	17	45,725	58,449
280 " 319 "	8	11,867	15,146	4	4,821	7,840	12	16,688	22,986
320 " 359 "	1	1,133	2,364	3	5,261	7,723	4	6,394	10,087
360 " 399 "	18	39,677	78,463	13	19,221	42,249	31	58,898	120,712
400 " 439 "	3	9,256	13,119	1	2,376	5,769	4	11,632	18,888
440 " 479 "	4	18,182	32,157	2	11,580	16,218	6	29,782	48,375
480 " 519 "	2	3,200	10,500	2	22,557	31,256	4	25,757	41,756
540 " 679 "	1	14,800	15,631	—	—	—	1	14,800	15,631
Totals	135	120,689	194,994	158	149,322	217,573	293	270,011	412,567
Grand totals	4,346	11,102,935	16,490,648	4,303	11,014,001	16,386,264	8,649	22,116,936	32,876,912

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

Kind of vessel and draft	Upbound			Downbound			Total		
	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Cargo vessel:									
6 to 7 feet	1	806	1,042	—	—	—	1	806	1,042
8 " 9 "	—	—	—	2	8,380	12,145	2	8,380	12,145
10 " 11 "	30	21,053	29,113	29	23,044	30,711	59	44,097	59,824
12 " 13 "	44	21,423	37,750	40	14,923	25,793	84	36,346	63,543
14 " 15 "	172	220,573	310,558	180	183,866	258,309	332	404,439	568,867
16 " 17 "	636	922,432	1,386,389	600	791,936	1,213,693	1,236	1,714,368	2,600,082
18 " 19 "	580	900,014	1,395,349	595	976,289	1,495,774	1,175	1,876,303	2,891,123
20 " 21 "	551	1,559,083	2,259,102	534	1,566,248	2,264,113	1,085	3,125,331	4,523,215
22 " 23 "	432	1,665,260	2,445,557	420	1,603,943	2,378,962	852	3,269,203	4,824,519
24 " 25 "	364	2,440,220	3,517,036	365	2,475,078	3,573,958	729	4,915,298	7,090,994
26 " 27 "	212	1,355,904	2,032,022	208	1,309,739	1,975,727	420	2,665,643	4,007,749
28 " 29 "	114	488,236	809,865	109	472,184	771,113	223	960,420	1,580,978
30 feet and over	43	301,737	479,033	58	388,005	618,820	101	689,742	1,097,853
Totals	3,179	9,896,741	14,702,816	3,120	9,813,635	14,619,118	6,299	19,710,376	29,321,934
Barge or scow:									
5 feet and under	26	12,336	12,350	33	9,683	9,709	59	22,019	22,059
6 to 7 feet	9	1,879	1,879	11	3,065	3,071	20	4,944	4,950
8 " 9 "	43	13,158	13,478	46	18,669	18,669	89	31,827	32,147
10 " 11 "	88	100,474	100,885	72	80,865	80,362	160	181,339	181,247
12 " 13 "	40	52,825	52,839	39	52,765	52,860	79	105,590	105,699
14 " 15 "	54	67,641	67,641	53	66,349	66,349	107	133,990	133,990
16 " 17 "	4	5,940	6,564	2	2,638	2,638	6	8,578	9,202
18 " 19 "	1	2,995	3,106	—	—	—	1	2,995	3,106
20 " 21 "	3	12,461	14,213	1	4,830	4,830	4	17,291	19,043
24 " 25 "	—	—	—	2	4,053	5,375	2	4,053	5,375
Totals	268	269,709	272,955	259	242,917	243,863	527	512,626	516,818
Tanker:									
8 to 9 feet	1	1,413	1,877	—	—	—	1	1,413	1,877
10 " 11 "	29	28,996	39,974	16	15,301	20,636	45	44,297	60,610
12 " 13 "	6	6,780	9,857	18	20,410	27,619	24	27,190	37,479
14 " 15 "	59	67,167	95,207	64	71,008	101,622	123	138,175	196,829
16 " 17 "	192	234,889	385,500	201	246,245	403,297	393	481,134	788,797
18 " 19 "	26	42,224	70,013	23	31,893	52,317	49	74,117	122,330
20 " 21 "	15	35,459	56,393	19	49,099	78,911	34	84,558	135,304
22 " 23 "	8	35,591	59,408	10	46,305	77,286	18	81,896	136,694
24 " 25 "	7	11,763	19,311	6	9,306	15,984	13	21,069	35,295
26 " 27 "	17	101,911	163,517	18	105,935	171,041	35	207,846	334,558
28 " 29 "	19	98,531	164,947	16	85,141	142,220	35	183,672	307,167
30 feet and over	23	125,098	205,709	21	102,705	169,633	44	227,803	375,342
Totals	402	789,822	1,271,713	412	783,348	1,260,566	814	1,573,170	2,532,279
Tug or dredge:									
5 feet and under	9	990	1,137	18	1,305	1,443	27	2,295	2,580
6 to 7 feet	35	2,187	3,431	36	2,243	3,498	71	4,430	6,929
8 " 9 "	103	3,764	9,640	106	5,134	10,822	209	8,898	20,462
10 " 11 "	175	13,118	24,934	166	11,770	22,901	341	24,888	47,835
12 " 13 "	31	3,267	6,076	21	1,780	3,810	52	5,047	9,886
14 " 15 "	7	2,524	2,636	7	2,547	2,670	14	5,071	5,306
18 " 19 "	2	124	316	—	—	—	2	124	316
Totals	362	25,974	48,170	354	24,779	45,144	716	50,753	93,314
Other vessels:									
5 feet and under	54	819	1,060	65	11,473	11,821	119	12,292	12,861
6 to 7 feet	8	694	1,071	11	990	1,569	19	1,684	2,640
8 " 9 "	9	4,533	5,458	11	4,710	5,710	20	9,243	11,168
10 " 11 "	8	6,066	7,088	11	11,428	13,394	19	17,494	20,482
12 " 13 "	11	4,710	5,731	20	28,726	39,537	31	33,436	45,268
14 " 15 "	10	14,974	17,481	7	3,979	4,576	17	18,953	22,057
16 " 17 "	17	26,689	51,349	20	34,810	59,541	37	61,499	110,890
18 " 19 "	6	13,085	18,281	5	11,579	16,530	11	24,664	34,811
20 " 21 "	8	24,377	52,244	6	19,070	33,639	14	43,447	85,883
24 " 25 "	1	14,800	15,631	1	7,600	13,907	2	22,400	29,538
26 " 27 "	3	9,942	19,600	—	—	—	3	9,942	19,600
30 feet and over	—	—	—	1	14,957	17,349	1	14,957	17,349
Totals	135	120,689	194,994	156	149,322	217,573	293	270,011	412,567
Grand totals	4,346	11,102,935	16,490,648	4,303	11,014,001	16,386,264	8,649	22,116,936	32,876,912

TABLE 24A. Cargo Tons Carried Upbound on the Welland Section of the Seaway by Country of Loading and Unloading

Country of loading	Cargo unloaded								
	In Canada			In United States			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
Ports on Lake Ontario and Welland canal:									
Canada	636,658	932	637,590	1,061,535	178,068	1,239,603	1,698,193	179,000	1,877,193
United States	—	—	—	10,540	13	10,553	10,540	13	10,553
Totals	636,658	932	637,590	1,072,075	178,081	1,250,156	1,708,733	179,013	1,887,746
Ports on the St. Lawrence river:									
Canada	696,268	12,619	708,887	5,199,355	244,356	5,443,711	5,895,623	256,975	6,152,598
United States	—	—	—	—	24	24	—	24	24
Totals	696,268	12,619	708,887	5,199,355	244,380	5,443,735	5,895,623	256,999	6,152,622
Ports outside the Gulf of St. Lawrence:									
Canada Atlantic ports	—	—	—	51,936	43,094	95,030	51,936	43,094	95,030
Canada Pacific ports	—	—	—	3,503	—	3,503	3,503	—	3,503
United States Atlantic ports	23,056	—	23,056	296,614	27,042	323,656 ¹	219,670	27,042	246,712
United Kingdom	—	1,822	1,822	26,610	77,721	104,331	26,610	79,543	106,153
West Indies Federation	6,042	—	6,042	17,461	79	17,540	23,503	79	23,582
Belgium	500	1,989	2,489	17,634	375,614	393,248	18,134	377,603	395,737
Denmark	—	958	958	10,562	5,921	16,483	10,562	6,879	17,441
Finland	—	—	—	37,413	6,542	43,955	37,413	6,542	43,955
France	1,173	586	1,759	8,112	37,536	45,648	9,285	38,122	47,407
Germany	—	1,328	1,328	3,494	61,876	65,370	3,494	63,204	66,698
Greece	—	—	—	10	171	181	10	171	181
Italy	—	311	311	12,136	35,347	47,483	12,136	35,658	47,794
Netherlands	1,355	285	1,640	53,193	71,714	124,907	54,548	71,999	126,547
Norway	873	742	1,615	13,109	20,769	33,878	13,982	21,511	35,493
Portugal	—	—	—	6	4,262	4,268	6	4,262	4,268
Sweden	—	—	—	29,713	14,529	44,242	29,713	14,529	44,242
Other Europe	—	281	281	25,454	13,831	39,285	25,454	14,112	39,566
Other Central America and Caribbean	5,389	—	5,389	66,772	7,349	74,121	72,161	7,349	79,510
South America	26,107	—	26,107	281	229	510	26,388	229	26,617
Middle East	—	—	—	—	734	734	—	734	734
Other Africa	—	—	—	4,299	729	5,028	4,299	729	5,028
Totals	64,495	8,302	72,797	678,312	805,089	1,483,401	742,807	813,391	1,556,198
Grand totals	1,397,421	21,853	1,419,274	6,949,742	1,227,550	8,177,292	8,347,163	1,249,403	9,596,566

¹ Includes 43,959 tons loaded at Hudson river ports.

TABLE 24B. Cargo Tons Carried Downbound on the Welland Section of the Seaway by Country of Loading and Unloading

Country of unloading	Cargo loaded								
	In Canada			In United States			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
Ports on Lake Ontario and Welland canal:									
Canada	2,712,156	3,406	2,715,562	7,052,575	420	7,052,995	9,764,731	3,826	9,768,557
United States	28,000	—	28,000	306,731	—	306,731	336,731	—	336,731
Totals	2,740,156	3,406	2,743,562	7,361,306	420	7,361,726	10,101,462	3,826	10,105,288
Ports on the St. Lawrence river:									
Canada	2,560,557	2,599	2,563,156	1,370,774	53,379	1,424,153	3,931,331	55,978	3,987,309
United States	—	—	—	4,492	—	4,492	4,492	—	4,492
Totals	2,560,557	2,599	2,563,156	1,375,266	53,379	1,428,645	3,935,823	55,978	3,991,801
Ports outside the Gulf of St. Lawrence:									
Canada Atlantic ports	59,783	143	59,926	2	43	45	59,785	186	59,971
United States Atlantic ports	—	3,176	3,176	353,718	9,453	363,171 ¹	353,718	12,629	366,347
United Kingdom	390,177	3,904	394,081	444,165	82,556	526,721	834,342	66,460	920,802
West Indies Federation	5,492	1,200	6,692	422	989	1,411	5,914	2,189	8,103
Other British Commonwealth	—	—	—	414	201	615	414	201	615
Belgium	29,592	662	30,254	122,280	26,281	148,561	151,872	26,943	178,815
Denmark	—	304	304	153,370	2,158	155,528	153,370	2,462	155,832
Finland	—	36	36	1,598	1,115	2,713	1,598	1,151	2,749
France	8,222	5,793	14,015	10,507	30,298	40,805	18,729	36,091	54,820
Germany	7,920	4,163	12,083	407,120	42,266	449,386	415,040	46,429	461,469
Greece	—	—	—	21,185	8,823	30,008	21,185	8,823	30,008
Italy	—	1,388	1,388	71,861	26,923	98,784	71,861	28,311	100,172
Netherlands	14,958	7,346	22,304	865,901	58,329	924,230	880,859	65,675	946,534
Norway	6,043	377	6,420	44,413	3,918	48,331	50,456	4,295	54,751
Portugal	—	—	—	5,069	3,198	8,267	5,069	3,198	8,267
Sweden	—	361	361	7,040	21,388	28,428	7,040	21,749	28,789
Other Europe	10,551	975	11,526	58,399	25,263	83,662	68,950	26,238	95,188
Other Central America and Caribbean	3,867	331	4,198	66,662	6,043	72,705	70,529	6,374	76,903
South America	43,431	43	43,474	74,160	35,131	109,291	117,591	35,174	152,765
Middle East	3,145	—	3,145	34,508	20,508	55,016	37,653	20,508	58,161
Other Asia	—	262	262	29,140	5,758	34,898	29,140	6,020	35,160
Other Africa	5,977	—	5,977	5,372	4,788	10,160	11,349	4,788	16,137
Pacific and Indian Ocean Islands	—	—	—	—	11	11	—	11	11
Totals	589,158	30,464	619,622	2,777,306	415,441	3,192,747	3,366,464	445,905	3,812,369
Grand totals	5,889,871	36,469	5,926,340	11,513,878	469,240	11,983,118	17,403,749	505,709	17,909,458

¹ Includes 26,818 tons unloaded at Hudson river ports.

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	1,650,288	159,608	1,809,896
	United States	49,787	18,598	68,385
	United Kingdom	2,768	176	2,944
	Germany	2,315	581	2,896
	Netherlands	—	13	13
	Sweden	3,575	37	3,612
	Totals		1,708,733	179,013	1,887,746
Ports on the St. Lawrence river	Canada	4,985,768	251,701	5,237,469
	United States	478,213	—	478,213
	United Kingdom	358,963	43	359,006
	Bermuda	13,524	—	13,524
	Germany	3,052	1,000	4,052
	Netherlands	—	65	65
	Norway	29,241	4,185	33,426
	Sweden	25,949	—	25,949
	Panama	—	5	5
	Middle East	913	—	913
	Totals		5,895,623	256,999	6,152,622
Ports outside the Gulf of St. Lawrence	Canada	24,248	2,019	26,267
	United States	313,795	33,716	347,511
	United Kingdom	53,095	147,586	200,681
	Denmark	6,151	21,688	27,839
	Finland	47	17,274	17,321
	France	772	19,868	20,640
	Germany	28,422	227,693	256,115
	Greece	2,812	3,323	6,135
	Italy	—	8,241	8,241
	Netherlands	2,658	73,856	76,514
	Norway	164,829	160,619	325,448
	Sweden	55,316	50,602	105,918
	Other Europe	1,173	9,983	11,156
	Panama	—	10,363	10,363
	Other Central America and Caribbean	4,211	901	5,112
	Middle East	—	8,997	8,997
Liberia	85,278	16,662	101,940	
Totals		742,807	813,391	1,556,198
Grand totals		8,347,163	1,249,403	9,596,566

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	8,761,474	3,406	8,764,880
	United States	1,335,395	—	1,335,395
	United Kingdom	—	90	90
	Germany	275	315	590
	Norway	4,318	15	4,333
	Totals		10,101,462	3,826	10,105,288
Ports on the St. Lawrence river	Canada	3,534,604	14,206	3,548,810
	United States	20,898	—	20,898
	United Kingdom	374,512	11,571	386,083
	Denmark	3,303	22,841	26,144
	Germany	1,319	1	1,320
	Netherlands	—	11	11
	Norway	500	6,924	7,424
	Sweden	687	424	1,111
Totals		3,935,823	55,978	3,991,801
Ports outside the Gulf of St. Lawrence	United States	410,746	68,335	479,081
	United Kingdom	678,233	55,330	733,563
	Bermuda	9,716	—	9,716
	Denmark	96,828	7,136	103,962
	Finland	23,707	6,547	30,254
	France	114,132	8,501	122,633
	Germany	328,885	116,606	445,491
	Greece	105,791	—	105,791
	Italy	72,988	8,825	81,813
	Netherlands	66,178	39,257	105,435
	Norway	582,763	62,895	645,658
	Sweden	124,376	49,188	173,564
	Other Europe	7,319	1,145	8,464
	Panama	161,140	7,128	168,268
	Other Central America and Caribbean	25,703	—	25,703
	South America	8,040	—	8,040
	Middle East	30,661	13,246	43,907
Liberia	519,260	1,766	521,026	
Totals		3,366,464	445,905	3,812,369
Grand totals		17,403,749	505,709	17,909,458

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	—	66	66	22,050	11,683	33,733	511.1	22	40	62	14,178	12,441	26,619	665.5	
1,000 to 1,999	294	513	807	782,554	250,411	1,032,955	2,013.6	11	778	789	1,648,431	164,562	1,812,993	2,330.3	
2,000 " 2,999	227	524	751	653,853	497,288	1,151,141	2,196.8	41	676	717	1,847,417	142,150	1,989,567	2,943.1	
3,000 " 3,999	84	148	232	397,509	145,807	543,316	3,671.1	7	210	217	916,903	38,407	955,310	4,549.1	
4,000 " 4,999	199	99	298	331,637	125,635	457,272	4,618.9	32	280	312	1,702,850	45,390	1,748,240	6,243.7	
5,000 " 5,999	47	64	111	224,557	76,102	300,659	4,697.8	8	105	113	624,559	10,263	634,822	6,045.9	
6,000 " 6,999	92	106	198	474,931	51,806	526,737	4,969.2	14	172	186	1,050,482	46,224	1,096,706	6,376.2	
7,000 " 7,999	180	67	247	434,551	46,627	481,178	7,181.8	5	242	247	1,992,854	22,649	2,015,503	8,328.5	
8,000 " 8,999	36	27	63	237,474	4,918	242,392	8,977.5	—	68	68	698,912	19,259	718,171	10,561.3	
9,000 " 9,999	37	33	70	452,738	—	452,738	13,719.3	1	63	64	702,532	—	702,532	11,151.3	
10,000 " 10,999	7	9	16	95,359	1,212	96,571	10,730.1	—	22	22	250,648	—	250,648	11,393.1	
11,000 " 11,999	41	31	72	554,678	—	554,678	17,892.8	1	70	71	1,123,986	—	1,123,986	16,056.9	
12,000 " 12,999	70	50	120	916,164	—	916,164	18,323.3	14	107	121	1,639,630	—	1,839,630	17,192.8	
13,000 " 13,999	11	30	41	615,252	—	615,252	20,508.4	15	26	41	444,699	—	444,699	17,103.8	
14,000 " 14,999	—	10	10	190,350	—	190,350	19,035.0	6	4	10	64,807	—	64,807	16,201.8	
15,000 " 15,999	27	22	49	481,471	—	481,471	21,885.0	9	40	49	808,067	—	808,067	20,201.7	
16,000 " 16,999	11	2	13	48,125	—	48,125	24,062.5	6	9	15	189,268	—	189,268	21,029.9	
17,000 and over	—	15	15	380,957	—	380,957	25,357.1	11	5	16	118,886	—	118,886	23,777.2	
Totals	1,363	1,816	3,179	7,294,200	1,211,489	8,505,689	4,683.7	203	2,917	3,120	16,039,109	501,345	16,540,454	5,670.4	
Barge or scow:															
Under 1,000 gross tons	76	14	90	1,979	12,277	14,256	1,018.3	86	8	94	7,413	2,366	9,779	1,222.4	
1,000 to 1,999	50	123	173	253,653	25,637	279,290	2,270.7	18	145	163	335,799	1,998	337,797	2,329.6	
2,000 " 2,999	1	—	1	—	—	—	—	—	—	—	—	—	—	—	
3,000 " 3,999	—	1	1	4,503	—	4,503	4,503.0	—	—	—	—	—	—	—	
4,000 " 4,999	2	1	3	7,472	—	7,472	7,472.0	2	—	2	—	—	—	—	
Totals	129	139	268	267,607	37,914	305,521	2,198.0	106	153	259	343,212	4,364	347,576	2,271.7	
Trucker:															
Under 1,000 gross tons	5	4	9	4,712	—	4,712	1,178.0	—	10	10	13,410	—	13,410	1,341.0	
1,000 to 1,999	70	125	195	327,539	—	327,539	2,620.3	97	109	206	291,314	—	291,314	2,672.6	
2,000 " 2,999	56	67	123	218,314	—	218,314	3,258.4	39	84	123	276,399	—	276,399	3,290.5	
3,000 " 3,999	6	4	10	5,657	—	5,657	1,414.3	—	11	11	49,920	—	49,920	4,538.2	
4,000 " 4,999	2	1	3	5,500	—	5,500	5,500.0	1	3	4	17,572	—	17,572	5,990.7	
5,000 " 5,999	5	—	5	—	—	—	—	—	5	5	37,802	—	37,802	7,560.4	
6,000 " 6,999	2	—	2	—	—	—	—	—	2	2	10,626	—	10,626	5,313.0	
7,000 " 7,999	2	6	10	60,191	—	60,191	7,523.9	5	5	10	42,280	—	42,280	8,456.0	
8,000 " 8,999	5	—	5	—	—	—	—	—	5	5	50,359	—	50,359	10,071.8	
9,000 " 9,999	—	4	4	41,170	—	41,170	10,292.5	—	3	3	24,186	—	24,186	8,062.0	
10,000 " 10,999	12	13	25	112,337	—	112,337	8,641.3	13	9	22	85,475	—	85,475	9,497.2	
12,000 " 12,999	6	1	7	8,611	—	8,611	8,611.0	—	8	8	93,688	—	93,688	11,711.0	
13,000 " 13,999	4	—	4	—	—	—	—	—	3	3	27,997	—	27,997	9,332.3	
Totals	175	227	402	784,031	—	784,031	3,453.9	155	257	412	1,021,428	—	1,021,428	3,974.4	
Other vessels:															
Under 1,000 gross tons	453	1	454	1,325	—	1,325	1,325.0	462	—	462	—	—	—	—	
1,000 to 1,999	10	—	10	—	—	—	—	9	—	9	—	—	—	—	
2,000 " 2,999	10	—	10	—	—	—	—	16	—	16	—	—	—	—	
3,000 " 3,999	14	—	14	—	—	—	—	12	—	12	—	—	—	—	
4,000 " 4,999	—	—	—	—	—	—	—	3	—	3	—	—	—	—	
5,000 " 5,999	2	—	2	—	—	—	—	2	—	2	—	—	—	—	
6,000 " 6,999	1	—	1	—	—	—	—	1	—	1	—	—	—	—	
7,000 " 7,999	1	—	1	—	—	—	—	2	—	2	—	—	—	—	
8,000 " 8,999	2	—	2	—	—	—	—	2	—	2	—	—	—	—	
9,000 " 9,999	1	—	1	—	—	—	—	—	—	—	—	—	—	—	
10,000 " 10,999	—	—	—	—	—	—	—	1	—	1	—	—	—	—	
12,000 " 13,999	—	—	—	—	—	—	—	1	—	1	—	—	—	—	
15,000 " 15,999	1	—	1	—	—	—	—	—	—	—	—	—	—	—	
17,000 and over	1	—	1	—	—	—	—	1	—	1	—	—	—	—	
Totals	496	1	497	1,325	—	1,325	1,325.0	512	—	512	—	—	—	—	
Grand totals	2,163	2,183	4,346	8,347,163	1,249,403	9,596,566	4,396.0	976	3,327	4,303	17,403,749	505,709	17,909,458	5,383.1	

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

No.	Commodity	Canada to		United States to		United Kingdom to	
		Canada	United States	Canada	United States	Canada	United States
		tons					
	Products of agriculture:						
1	Wheat	18,320	—	—	—	—	—
2	Rye	—	3,707	—	—	—	—
3	Soybean oil cake and meal	1,687	—	—	—	—	—
4	Products of agriculture, n.o.s.	574	—	—	—	—	212
5	Totals	20,581	3,707	—	—	—	212
	Animals and Products:						
6	Sea food	—	5,414	—	—	—	—
7	Fish and sea animal oil	—	56	—	—	—	—
8	Animals and products, n.o.s.	1,130	20	—	—	—	266
9	Totals	1,130	5,490	—	—	—	266
	Products of mines:						
10	Bituminous coal	125,104	13,983	—	—	—	—
11	Coke	2,655	—	—	—	—	—
12	Iron ore	128,180	5,256,173	—	—	—	3
13	Aluminum ore and concentrates	1,956	—	—	—	—	—
14	Clay and bentonite	162	—	—	—	—	22,308
15	Gravel and sand	48,447	—	—	—	—	—
16	Stone and rock, crushed, broken	—	639,364	—	—	—	—
17	Stone, finished	—	—	—	—	—	—
18	Asphalt	—	—	—	2,324	—	—
19	Phosphate rock	3,500	—	—	3,677	—	—
20	Sulphur	—	34,618	—	—	—	—
21	Products of mines, n.o.s.	737	16,199	—	2,168	—	—
22	Totals	310,741	5,960,337	—	8,169	—	22,311
	Products of forests:						
23	Pulpwood	158,593	97,962	—	—	—	—
24	Veneer and plywood	—	—	—	—	—	—
25	Products of forests n.o.s.	—	—	—	—	—	96
26	Totals	158,593	97,962	—	—	—	96
	Manufactures and miscellaneous:						
27	Gasoline	214,043	—	—	10,076	—	—
28	Fuel, road and petroleum residual oils	328,715	6,716	—	112,843	—	—
29	Lubricating oils and greases	19,166	—	—	60,895	—	—
30	Petroleum products, refined	4,578	2,319	2,984	12,536	—	—
31	Vegetable and nut oils	—	—	—	—	—	1,344
32	Chemicals	9,855	14,150	14,917	35,921	12	602
33	Sodium products	—	—	—	—	—	—
34	Alcohol	—	—	—	4,797	—	—
35	Fertilizers	2,016	—	3,995	—	—	9
36	Tar, pitch and creosote	2,944	—	—	5,113	—	—
37	Aluminum: bar, ingot, pig and slab	—	24,676	—	—	—	—
38	Alloys for steel manufacture	—	—	—	—	—	—
39	Metal and alloys	105	1,781	—	—	85	1,629
40	Iron, pig	3,377	77,120	—	1,558	—	—
41	Iron and steel: billet, bloom and ingot	—	—	—	3,575	—	—
42	Iron and steel: bar, rod and slab	—	—	—	—	—	4,496
43	Iron and steel, n.o.s.	80	23	—	—	689	3,596
44	Iron and steel nails and wire	—	—	—	—	—	2,058
45	Manufactured iron and steel	1	1,760	—	—	646	3,651
46	Machinery and machines	166	344	—	—	—	201
47	Rails and railway track materials	—	—	—	—	—	—
48	Automobiles, passenger	—	—	—	—	63	11,801
49	Cement	25,703	86,051	—	—	—	—
50	Woodpulp	2,172	6,957	—	—	—	—
51	Newsprint paper	2,530	442,446	—	—	—	—
52	Printing paper	—	—	—	25,624	—	—
53	Wallboard	—	—	—	—	—	—
54	Glass	—	—	—	—	—	6,803
55	Binder twine	—	—	—	—	—	112
56	Liquors, alcoholic	—	65	—	—	—	15,150
57	Wine	—	—	—	—	—	47
58	Syrup and molasses, refined	—	2,412	—	45,999	—	—
59	Molasses, residual	—	—	—	3,361	—	—
60	Sugar	—	—	—	2,339	—	—
61	Food products	—	—	—	—	—	914
62	Scrap iron and steel	—	39,675	1,160	1,360	27	2,893
63	Manufactures and miscellaneous, n.o.s.	10,546	7,856	—	67	300	26,140
64	Totals	625,997	714,351	23,056	326,064	1,822	81,448
65	Domestic package freight	229,435	—	—	—	—	—
66	Grand totals	1,346,477	6,781,847	23,056	334,233	1,822	104,331

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

Other British Commonwealth to		Other Europe to		Other Countries to		Total to		Grand total	No.
Canada	United States	Canada	United States	Canada	United States	Canada	United States		
			9			18,320	9	18,329	1
							3,707	3,707	2
						1,687		1,687	3
	31		2,202		401	574	2,846	3,420	4
	31		2,211		401	20,581	6,562	27,143	5
			306				5,720	5,720	6
			10,884				10,940	10,940	7
			7,367		137	1,130	7,790	8,920	8
			18,557		137	1,130	24,450	25,580	9
						125,104	13,983	139,087	10
						2,655		2,655	11
6,042				17,496		128,180	5,256,176	5,384,356	12
			34			25,494		25,494	13
						162	22,342	22,504	14
						48,447		48,447	15
			1,639				639,364	639,364	16
			28				1,639	1,639	17
							2,350	2,350	18
						3,500	3,677	7,177	19
		880	25,061		20,814	1,617	34,618	34,618	20
6,042		880	26,760	17,496	20,814	335,159	6,038,391	6,373,550	22
						158,593	97,962	256,555	23
			3,872				3,872	3,872	24
			3,150		786		4,032	4,032	25
			7,022		786	158,593	105,866	264,459	26
						214,043	10,076	224,119	27
					19,419	328,715	138,978	467,693	28
						19,166	60,895	80,061	29
			12,973	8,611		16,173	27,828	44,001	30
			7,462				8,806	8,806	31
		2,385	30,248			27,169	80,921	108,090	32
		1,759				1,759		1,759	33
							4,797	4,797	34
		500	963			6,511	972	7,483	35
						2,944	5,113	8,057	36
			1,402				26,078	26,078	37
		457	19,603			457	19,603	20,060	38
		510	11,825			700	15,235	15,935	39
			15,069			3,377	93,747	97,124	40
			4				3,579	3,579	41
		250	51,233			250	55,729	55,979	42
		195	144,945		4	964	148,568	149,532	43
		123	16,287			123	18,345	16,468	44
		1,232	219,290		3	1,879	224,704	226,583	45
			491			166	1,036	1,202	46
			3,765				3,765	3,765	47
			11,488		1	63	23,290	23,353	48
						25,703	86,051	111,754	49
			75,779			2,172	82,736	84,908	50
			33			2,530	442,479	445,009	51
			413				26,037	26,037	52
			3,675		430		4,105	4,105	53
		385	13,556			385	20,359	20,744	54
		808	6,077		219	806	6,408	7,216	55
	8		52		2		15,275	15,275	56
			2,527				2,574	2,574	57
	10,857		3		8,736		68,007	68,007	58
	6,597				22,102		32,060	32,060	59
				5,389	6,970	5,389	9,309	14,698	60
					10	173	22,006	22,179	61
		173	21,082			1,187	53,656	54,843	62
		49	9,728				158,896	170,466	63
		724	124,425		359	11,570			
	17,509	9,501	804,398	14,000	58,255	674,376	2,002,023	2,676,399	64
						229,435		229,435	65
6,042	17,540	10,381	858,948	31,496	80,393	1,419,274	8,177,292	9,596,566	66

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

No.	Commodity	Canada to						Total
		Canada	United States	United Kingdom	Other British Commonwealth	Other Europe	Other Countries	
		tons						
	Products of agriculture:							
1	Wheat	3,166,884	—	166,760	—	52,762	36,522	3,422,928
2	Corn	34,994	—	141	—	—	—	35,135
3	Oats	346,997	—	—	—	5,200	—	352,197
4	Barley	526,078	—	95,389	—	10,072	—	631,539
5	Rye	18,484	—	—	—	—	—	18,484
6	Other grain	4,576	—	—	—	565	—	5,141
7	Flour, wheat	16,341	—	16,026	6,682	—	17,904	56,953
8	Meal, corn	—	—	—	—	—	—	—
9	Other mill products	12,709	—	56	—	25	—	12,790
10	Cottonseed oil cake and meal	—	—	—	—	—	—	—
11	Soybeans	77,931	—	5,600	—	—	—	83,531
12	Soybean oil cake and meal	—	—	5,127	—	—	—	5,127
13	Beans and peas, dried	1,573	—	2,950	—	—	—	4,523
14	Malt	56,879	—	87	—	25	—	56,991
15	Flaxseed	121,966	—	41,067	—	1,680	—	164,713
16	Products of agriculture, n.o.s.	493	—	627	—	123	1	1,244
17	Totals	4,385,905	—	333,830	6,682	70,452	54,427	4,851,296
	Animals and products:							
18	Packing house products, edible	—	—	—	—	73	—	73
19	Hides, skins and pelts	—	—	—	—	—	—	—
20	Animals and products, n.o.s.	—	—	1,128	—	100	—	1,228
21	Totals	—	—	1,128	—	173	—	1,301
	Products of mines:							
22	Bituminous coal	13,119	—	—	—	—	—	13,119
23	Coke	—	—	14,529	—	—	—	14,529
24	Iron ore	113,005	—	—	—	—	—	113,005
25	Zinc ore and concentrates	—	—	—	—	6,653	—	6,653
26	Clay and bentonite	—	—	—	—	—	—	—
27	Sand, industrial	—	—	—	—	—	—	—
28	Gravel and sand, n.o.s.	11,332	—	—	—	—	—	11,332
29	Stone and rock, ground and crushed	55,921	—	—	—	—	—	55,921
30	Stone, rough, n.o.s.	—	—	—	—	—	—	—
31	Salt	47,521	—	—	—	—	—	47,521
32	Sulphur	—	—	—	—	—	—	—
33	Products of mines, n.o.s.	739	—	4	—	—	—	743
34	Totals	241,637	—	14,533	—	6,653	—	262,823
	Products of forests:							
35	Pulpwood	96,169	—	—	—	—	—	96,169
36	Products of forests, n.o.s.	—	—	36	—	—	—	36
37	Totals	96,169	—	36	—	—	—	96,205
	Manufactures and miscellaneous:							
38	Gasoline	22,819	—	—	—	—	—	22,819
39	Fuel, road, and petroleum residual oils	213,104	—	—	—	—	—	213,104
40	Petroleum products refined	38,467	—	124	—	—	—	38,591
41	Lubricating oils and greases	16,858	—	—	—	—	—	16,858
42	Soybean oil	—	—	—	—	—	—	—
43	Vegetable and nut oils, n.o.s.	—	—	—	—	—	—	—
44	Rubber, crude, natural and synthetic	—	—	1,394	—	15,569	262	17,225
45	Chemicals, n.o.s.	31,294	—	17,586	—	1,246	2,277	52,403
46	Sodium products	—	—	—	—	—	—	—
47	Tar, pitch and creosote	19,983	—	—	—	—	—	19,983
48	Iron and steel; bar, rod and slab	3,389	—	—	—	—	—	3,389
49	Iron and steel, n.o.s.	489	—	—	—	—	—	489
50	Manufactured iron and steel	1,703	—	—	—	—	—	1,703
51	Machinery and machines	2	—	—	—	—	—	2
52	Machinery parts	—	—	—	—	—	—	—
53	Rails and railway track materials	—	—	—	—	—	—	—
54	Automobiles, passenger and freight	—	—	—	—	—	—	—
55	Cement	—	4,332	—	—	—	—	4,332
56	Woodpulp	—	23,668	—	—	—	—	23,666
57	Syrup and molasses	—	—	—	—	—	—	—
58	Food products, n.o.s.	16,586	—	19	10	26	—	16,641
59	Feed, animal and poultry	112,489	—	24,680	—	51	20	137,240
60	Scrap iron and steel	—	—	—	—	—	—	—
61	Waste materials	—	—	—	—	303	—	303
62	Manufactures and miscellaneous, n.o.s.	77	3,176	751	—	4,218	70	8,292
63	Totals	477,260	31,176	44,554	10	21,413	2,629	577,042
64	Domestic package freight	137,673	—	—	—	—	—	137,673
65	Grand totals	5,338,644	31,176	394,081	6,692	98,691	57,056	5,926,340

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

United States to							Grand total	No.
Canada	United States	United Kingdom	Other British Commonwealth	Other Europe	Other Countries	Total		
tons								
130,586	68,179	30,836	50	153,337	131,739	514,727	3,937,655	1
616,854	49,225	241,735	—	236,429	1,612	1,145,855	1,180,990	2
15,446	—	560	30	441,448	—	457,484	809,681	3
70,542	7,640	51,341	—	453,177	—	582,700	1,214,239	4
6,272	—	—	—	7,033	—	13,305	31,789	5
—	2,429	20	—	11,198	131	13,778	18,919	6
—	—	1,228	672	88,977	45,289	136,166	193,119	7
—	—	—	—	13,820	13,109	26,929	26,929	8
—	—	—	—	36,736	968	37,704	50,494	9
—	—	7,050	—	2,100	—	9,150	9,150	10
449,213	25,070	1,146	—	89,517	—	564,946	648,477	11
113	8,869	2,522	—	10,728	—	22,232	27,359	12
6,541	—	53,170	—	16,370	1,512	77,593	82,116	13
—	—	—	38	—	8,226	8,264	65,255	14
83,494	—	5,617	—	104,770	—	193,890	358,603	15
33	3,562	3,872	40	13,163	2,590	23,260	24,504	16
1,379,094	164,974	399,097	830	1,678,812	205,176	3,627,983	8,679,279	17
—	—	83,747	31	25,534	174	109,486	109,559	18
—	—	1,996	—	10,580	104	12,680	12,680	19
4	—	8,513	106	64,516	493	73,632	74,860	20
4	—	94,256	137	100,630	771	195,798	197,099	21
4,627,793	5,409	—	—	—	—	4,633,202	4,646,321	22
13,730	12,364	157	—	12,841	—	39,092	53,621	23
1,799,110	—	—	—	2	—	1,799,112	1,912,117	24
—	—	—	—	—	—	—	6,653	25
162	—	7,018	—	11,043	30	18,253	18,253	28
11,550	—	—	—	2	3	11,555	11,555	27
44,752	—	—	—	—	28	44,780	56,112	28
6,922	—	53	—	10	101	7,086	63,007	29
19,738	—	—	—	—	—	19,738	19,738	30
92,424	—	—	—	—	9	92,433	139,954	31
48,114	—	—	—	6	—	48,120	48,120	32
448	—	1,629	—	5,109	25	7,211	7,954	33
6,664,743	17,773	6,857	—	29,013	196	6,720,562	6,983,405	34
—	—	—	—	—	—	—	96,189	35
343	—	1,760	2	1,940	243	4,288	4,324	36
343	—	1,760	2	1,940	243	4,288	100,493	37
14,813	24,989	—	—	—	—	39,802	62,621	38
177,690	64,196	47	—	25	—	241,958	455,062	39
59	10,702	2,340	8	7,502	163	20,774	59,365	40
—	—	226	—	2,033	47	2,306	19,164	41
—	38,459	—	—	547	35	39,041	39,041	42
—	5,346	1,357	—	978	199	7,880	7,880	43
—	—	181	—	5,334	—	5,515	22,740	44
2,315	25,890	1,658	—	13,010	1,259	44,132	96,535	45
—	102,401	—	—	967	763	104,131	104,131	46
—	80,558	—	—	141	—	80,699	100,682	47
—	10,509	35	—	117	1	10,662	14,051	48
13,432	—	668	2	2,312	416	16,830	17,319	49
13,261	404	181	—	5,764	1,333	20,943	22,646	50
—	—	393	—	2,812	1,185	4,390	4,392	51
3,907	—	—	—	139	—	4,046	4,048	52
25,995	—	—	—	—	—	25,995	25,995	53
424	2	40	—	6,104	3,759	10,329	10,329	54
—	119,226	—	—	100	—	119,326	123,658	55
687	—	—	—	—	—	687	24,355	56
—	8,749	416	—	1,254	219	10,636	10,638	57
31	—	549	400	35,359	17,665	54,004	70,645	58
500	218	2	25	25,262	2,307	28,314	165,554	59
179,426	—	4	—	6,006	10,907	196,343	196,343	60
469	1,998	3,810	—	7,555	55	11,420	11,723	61
—	—	10,844	622	84,987	35,382	134,302	142,594	62
433,009	493,647	22,751	1,057	208,308	75,695	1,234,467	1,811,509	63
—	—	—	—	—	—	—	137,673	64
8,477,193	676,394	526,721	2,026	2,018,703	282,081	11,983,118	17,909,458	65

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, 1950-59

Registry of vessel	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Vessel transits										
Upbound:										
Canada	1,414	1,729	1,954	2,054	1,673	1,766	1,913	1,607	1,295	1,111
United States	465	501	524	677	601	765	700	138	105	233
United Kingdom .....	..	..	..	..	..	..	1	..	6	13
Other foreign	8	6	21	36	11	8	9	4	41	15
Totals	1,887	2,236	2,499	2,767	2,285	2,539	2,623	1,749	1,447	1,372
Downbound:										
Canada	1,280	1,522	1,661	1,927	1,457	1,587	1,655	1,186	1,033	914
United States	490	514	520	417	598	774	712	720	918	2,126
United Kingdom .....	..	..	..	..	..	..	1	..	4	11
Other foreign	9	6	21	36	9	8	9	4	40	5
Totals	1,779	2,042	2,202	2,380	2,064	2,369	2,377	1,910	1,995	3,056
Grand totals	3,666	4,278	4,701	5,147	4,349	4,908	5,000	3,659	3,442	4,428
Registered net tons										
Upbound:										
Canada	1,650,074	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
United States	358,132	354,405	410,830	742,064	262,666	392,277	372,726	332,883	109,314	132,294
United Kingdom .....	..	..	..	..	..	..	727	..	3,756	10,857
Other foreign	6,460	4,721	17,529	31,112	8,086	6,612	8,655	2,934	31,963	17,805
Totals	2,014,666	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
Downbound:										
Canada	1,310,593	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
United States	211,795	269,472	288,986	206,320	178,867	298,362	308,720	320,512	281,689	321,962
United Kingdom .....	..	..	..	..	..	..	727	..	2,107	8,487
Other foreign	7,140	4,721	17,529	33,646	5,814	6,582	8,685	2,934	31,001	4,040
Totals	1,529,528	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
Grand totals	3,544,194	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
Cargo tons										
Upbound:										
Canada .....	..	..	..	..	..	641,701	883,604	571,437	327,050	383,755
United States .....	..	..	..	..	..	68,210	67,797	52,642	12,537	47,507
United Kingdom .....	..	..	..	..	..	..	..	..	..	185
Other foreign .....	..	..	..	..	..	4,043	6,904	2,571	7,582	6,249
Totals	862,271	1,010,371	1,113,893	1,009,664	845,990	713,954	758,305	626,650	347,169	437,696
Downbound:										
Canada .....	..	..	..	..	..	1,461,155	2,204,837	1,151,155	821,218	770,182
United States .....	..	..	..	..	..	21,408	17,616	2,485	6,682	15,113
United Kingdom .....	..	..	..	..	..	..	968	..	4,695	2,150
Other foreign .....	..	..	..	..	..	4,558	7,552	4,410	48,897	7,553
Totals	1,439,492	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
Grand totals	2,301,763	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
Season of navigation										
First vessel passage	April 23	April 30	April 2	March 29	April 10	April 11	April 5	April 5	April 8	April 13
Last vessel passage	Dec. 15	Dec. 13	Dec. 13	Dec. 15	Dec. 11	Dec. 12	Dec. 12	Dec. 12	Dec. 11	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	349	157	506	1,090,540	1,574,515	208,259	11
Passenger-cargo	80	38	118	157,700	235,393	5,929	13,447
Cargo-passenger	7	5	12	10,071	18,258	4,565	208
Scow, barge, etc.	166	2	168	124,676	127,810	62	—
Tanker	18	72	90	137,472	209,241	218,880	—
Tug or dredge	221	—	221	16,218	32,545	—	5
Pleasure craft over 40 ft.	215	—	215	1,134	1,389	—	100
Naval or Government	20	—	20	2,913	5,747	—	16
All other types	21	1	22	954	1,363	1	1,098
Totals	1,097	275	1,372	1,541,686	2,206,261	437,696	14,885
Downbound:							
Cargo	33	255	288	434,604	659,710	585,317	—
Passenger-cargo	1,836	49	1,885	307,212	434,226	84,376	166,731
Cargo-passenger	8	—	8	8,013	14,165	—	105
Scow, barge etc.	18	136	154	35,430	85,544	94,824	—
Tanker	145	11	156	287,477	441,740	30,488	—
Tug or dredge	210	1	211	14,340	27,773	8	68
Pleasure craft over 40 ft.	209	—	209	951	1,176	—	84
Naval or Government	15	—	15	1,840	3,190	—	1
All other types	129	1	130	6,219	8,844	5	11,847
Totals	2,603	453	3,056	1,146,086	1,676,368	794,998	178,836
Grand totals	3,700	728	4,428	2,687,772	3,882,629	1,232,694	193,721

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	870	241	1,111	1,380,730	1,972,565	383,755	4,590
United States	207	26	233	132,294	181,754	47,507	9,445
United Kingdom	12	1	13	10,357	20,889	185	850
Denmark	1	1	2	2,019	3,845	1,253	—
Germany	—	6	6	6,121	10,244	4,996	—
Norway	5	—	5	5,686	9,923	—	—
Sweden	1	—	1	2,381	4,074	—	—
Liberia	1	—	1	1,598	2,967	—	—
Totals	1,097	275	1,372	1,541,686	2,206,261	437,696	14,885
Downbound:							
Canada	476	438	914	811,597	1,201,918	770,182	4,595
United States	2,116	10	2,126	321,962	450,700	15,113	173,488
United Kingdom	10	1	11	8,487	15,935	2,150	753
Germany	—	1	1	856	1,595	1,218	—
Norway	1	3	4	3,184	6,220	6,335	—
Totals	2,603	453	3,056	1,146,086	1,676,368	794,998	178,836
Grand totals	3,700	728	4,428	2,687,772	3,882,629	1,232,694	193,721

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	346	4	350	9,688	12,684	777	5,388
80 to 119 feet	170	10	180	9,480	20,974	1,360	6
120 " 159 "	157	1	158	80,789	85,703	80	25
160 " 199 "	17	—	17	12,399	23,383	—	1,299
200 " 239 "	6	—	6	5,779	8,544	—	—
240 " 279 "	155	176	331	431,161	675,755	320,057	—
280 " 319 "	2	—	2	2,354	4,370	—	—
320 " 359 "	126	50	176	439,640	622,937	42,258	8,167
360 " 399 "	29	17	46	120,740	162,442	35,819	—
400 " 439 "	35	6	41	127,537	179,791	11,247	—
440 " 479 "	7	8	15	52,509	79,954	25,668	—
480 " 519 "	41	2	43	208,973	274,834	300	—
520 " 559 "	3	1	4	20,440	26,753	150	—
560 " 599 "	2	—	2	11,685	15,833	—	—
600 " 639 "	1	—	1	8,532	12,304	—	—
Totals	1,097	275	1,372	1,541,686	2,206,261	437,696	14,885
Downbound:							
Under 80 feet	2,194	6	2,200	128,397	162,420	3,192	169,191
80 to 119 feet	172	—	172	11,769	23,155	—	—
120 " 159 "	27	128	155	81,011	84,648	81,054	5
160 " 199 "	18	—	18	12,899	24,043	—	1,202
200 " 239 "	2	4	6	6,536	8,752	9,710	—
240 " 279 "	93	218	311	394,021	623,710	482,162	—
280 " 319 "	—	—	—	—	—	—	—
320 " 359 "	39	75	114	279,761	411,511	158,647	8,438
360 " 399 "	23	13	36	94,657	134,060	27,480	—
400 " 439 "	28	5	33	98,573	143,758	9,353	—
440 " 479 "	5	4	9	28,402	46,503	23,400	—
480 " 519 "	2	—	2	10,060	13,808	—	—
520 " 559 "	—	—	—	—	—	—	—
560 " 599 "	—	—	—	—	—	—	—
600 " 639 "	—	—	—	—	—	—	—
Totals	2,603	453	3,056	1,146,086	1,676,368	794,998	178,836
Grand totals	3,700	728	4,428	2,687,772	3,882,629	1,232,694	193,721

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

Port of origin or destination and country of registry	Upbound								
	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	1,090	1,348,771	1,928,195	20	30,728	42,174	1,110	1,379,499	1,970,369
United States	29	33,144	46,359	203	98,988	135,156	232	132,132	181,515
United Kingdom	11	8,486	16,214	—	—	—	11	8,486	16,214
Norway	3	3,536	5,974	2	2,150	3,949	5	5,686	9,923
Liberia	—	—	—	1	1,598	2,967	1	1,598	2,967
Totals	1,133	1,393,937	1,996,742	226	133,464	184,246	1,359	1,527,401	2,180,988
Originating at ports outside the Gulf of St. Lawrence:									
Registry:									
Canada	1	1,231	2,196	—	—	—	1	1,231	2,196
United States	—	—	—	1	162	239	1	162	239
United Kingdom	2	2,371	4,675	—	—	—	2	2,371	4,675
Denmark	1	562	1,111	1	1,457	2,734	2	2,019	3,845
Germany	—	—	—	6	6,121	10,244	6	6,121	10,244
Sweden	1	2,381	4,074	—	—	—	1	2,381	4,074
Totals	5	6,545	12,056	8	7,740	13,217	13	14,285	25,273
Grand totals	1,138	1,400,482	2,008,798	234	141,204	197,463	1,372	1,541,686	2,206,261
Downbound									
Originating in									
Canada			United States			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	
Destined to ports between Sault Ste. Marie and the Gulf of St. Lawrence:									
Registry:									
Canada	799	619,581	915,569	102	167,623	249,232	901	787,204	1,164,801
United States	19	2,351	3,782	2,107	319,611	446,938	2,126	321,962	450,700
United Kingdom	10	7,590	14,350	—	—	—	10	7,590	14,350
Totals	828	629,522	933,681	2,209	467,234	696,170	3,037	1,116,756	1,629,851
Destined to ports outside the Gulf of St. Lawrence:									
Registry:									
Canada	1	500	600	12	23,893	36,517	13	24,393	37,117
United Kingdom	1	897	1,585	—	—	—	1	897	1,585
Germany	—	—	—	1	856	1,595	1	856	1,595
Norway	—	—	—	4	3,184	6,220	4	3,184	6,220
Totals	2	1,397	2,185	17	27,933	44,332	19	29,330	46,517
Grand totals	830	630,919	935,866	2,226	515,167	740,502	3,056	1,146,086	1,676,368

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	498	1,052,048	1,527,272	431	209,894	323,443	182	118,788	121,850	1,111	1,380,730	1,972,565
United States	42	114,251	160,586	162	12,340	15,236	29	5,703	5,932	233	132,294	181,754
United Kingdom	11	9,064	17,240	2	1,793	3,649	—	—	—	13	10,857	20,889
Denmark	1	1,457	2,734	1	582	1,111	—	—	—	2	2,019	3,845
Germany	—	—	—	6	6,121	10,244	—	—	—	6	6,121	10,244
Norway	—	—	—	5	5,686	9,923	—	—	—	5	5,686	9,923
Sweden	1	2,381	4,074	—	—	—	—	—	—	1	2,381	4,074
Liberia	1	1,598	2,967	—	—	—	—	—	—	1	1,598	2,967
Totals	554	1,180,799	1,714,873	607	236,396	363,606	211	124,491	127,782	1,372	1,541,686	2,206,261
Downbound:												
Canada	338	550,876	636,832	404	180,894	285,068	172	79,827	60,018	914	611,597	1,201,918
United States	75	189,922	285,540	2,020	125,373	158,045	31	6,667	7,115	2,126	321,962	450,700
United Kingdom	10	7,590	14,350	1	897	1,585	—	—	—	11	8,487	15,935
Germany	—	—	—	1	856	1,595	—	—	—	1	856	1,595
Norway	—	—	—	4	3,184	6,220	—	—	—	4	3,184	6,220
Totals	423	748,388	1,136,722	2,430	311,204	452,513	203	86,494	87,133	3,056	1,146,066	1,676,368
Grand totals	977	1,929,187	2,851,595	3,037	547,600	816,119	414	210,985	214,915	4,428	2,687,772	3,882,629

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	49	4,989	6,423	1,800	119,119	149,790	1,849	124,108	156,213
80 to 119 feet	12	984	1,176	12	984	1,176	24	1,968	2,352
120 " 159 "	2	248	674	2	248	674	4	496	1,348
160 " 199 "	16	11,892	22,454	16	11,892	22,454	32	23,784	44,908
200 " 239 "	2	1,134	2,784	2	1,144	3,346	4	2,278	6,130
240 " 279 "	260	342,169	532,310	220	282,468	440,633	480	624,637	972,943
280 " 319 "	2	2,354	4,370	—	—	—	2	2,354	4,370
320 " 359 "	158	392,850	566,060	101	248,618	370,300	259	641,468	936,360
360 " 399 "	31	78,243	111,423	13	32,254	45,871	44	110,497	157,294
400 " 439 "	39	121,317	170,814	9	31,455	40,761	48	152,772	211,575
440 " 479 "	15	52,509	79,954	4	11,587	19,288	19	64,096	99,242
480 " 519 "	43	208,973	274,834	2	10,060	13,808	45	219,033	288,642
520 " 559 "	4	20,440	26,753	—	—	—	4	20,440	26,753
560 " 599 "	2	11,685	15,833	—	—	—	2	11,685	15,833
600 " 639 "	1	8,532	12,304	—	—	—	1	8,532	12,304
Totals	636	1,258,319	1,828,166	2,181	749,829	1,108,101	2,817	2,008,148	2,936,267
Barge or scow:									
Under 80 feet	9	494	494	8	504	504	17	998	998
80 to 119 feet	11	425	485	10	300	300	21	725	785
120 " 159 "	130	75,050	75,050	131	75,980	75,980	261	151,030	151,030
200 " 239 "	3	4,073	4,087	4	5,392	5,406	7	9,465	9,489
320 " 359 "	7	20,162	21,300	—	—	—	7	20,162	21,300
360 " 399 "	8	24,472	26,394	1	3,254	3,354	9	27,726	29,748
Totals	168	124,676	127,810	154	85,430	85,544	322	210,106	213,354
Tanker:									
80 to 119 feet	—	—	—	1	1,699	2,405	1	1,699	2,405
240 " 279 "	71	88,992	143,445	91	111,553	183,077	162	200,545	326,522
320 " 359 "	11	26,628	35,577	13	31,143	41,211	24	57,771	76,788
360 " 399 "	6	15,632	21,242	22	59,149	84,835	28	74,781	106,077
400 " 439 "	2	6,220	8,977	24	67,118	102,997	26	73,338	111,974
440 " 479 "	—	—	—	5	16,815	27,215	5	16,815	27,215
Totals	90	137,472	209,241	156	287,477	441,740	246	424,949	650,981
Tug or dredge:									
Under 80 feet	46	1,373	1,823	46	1,499	2,005	92	2,872	3,828
80 to 119 feet	151	7,333	18,371	147	8,595	19,028	298	15,928	37,399
120 " 159 "	23	5,119	8,968	18	4,246	6,740	41	9,365	15,708
Totals	220	13,825	29,162	211	14,340	27,773	431	28,165	58,935
Other vessels:									
Under 80 feet	246	2,832	3,944	346	7,275	10,121	592	10,107	14,065
80 to 119 feet	6	718	942	2	191	246	8	909	1,188
120 " 159 "	3	372	1,011	4	537	1,254	7	909	2,265
160 " 199 "	1	507	929	2	1,007	1,589	3	1,514	2,518
200 " 239 "	1	572	1,673	—	—	—	1	572	1,673
360 " 399 "	1	2,393	3,383	—	—	—	1	2,393	3,383
Totals	258	7,394	11,882	354	9,010	13,210	612	16,404	25,092
Grand totals	1,372	1,541,686	2,206,261	3,056	1,146,086	1,676,368	4,428	2,687,772	3,882,629

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	43	47	18	1,368	1,620	19	1,411	1,667
6 to 7 feet	47	3,596	4,154	1,781	116,401	145,948	1,828	119,997	150,102
10 " 11 "	2	248	674	3	1,536	2,652	5	1,784	3,326
12 " 13 "	61	52,716	77,532	18	7,248	10,388	79	59,964	87,920
14 " 15 "	20	24,658	39,206	39	36,471	58,194	59	61,129	97,400
16 " 17 "	116	171,971	276,723	143	197,536	314,883	259	369,507	591,606
18 " 19 "	145	302,852	437,863	132	276,933	416,087	277	579,785	853,950
20 " 21 "	190	540,178	761,305	40	92,325	131,350	230	632,503	892,655
22 " 23 "	45	124,474	172,331	6	16,476	20,958	51	140,950	193,289
24 " 25 "	9	37,583	58,331	1	3,535	6,021	10	41,118	64,352
Totals	636	1,258,319	1,828,166	2,181	749,829	1,108,101	2,817	2,008,148	2,936,267
Barge or scow:									
5 feet and under	32	8,334	8,334	19	1,384	1,384	51	9,718	9,718
6 to 7 feet	3	935	995	—	—	—	3	935	995
8 " 9 "	115	66,700	66,700	129	74,820	74,820	244	141,520	141,520
10 " 11 "	1	1,517	1,531	2	2,097	2,111	3	3,614	3,642
14 " 15 "	2	2,556	2,556	2	2,556	2,556	4	5,112	5,112
16 " 17 "	1	2,660	3,012	1	1,319	1,319	2	3,979	4,331
18 " 19 "	12	36,341	38,555	1	3,254	3,354	13	39,595	41,909
20 " 21 "	2	5,633	6,127	—	—	—	2	5,633	6,127
Totals	168	124,676	127,810	154	85,430	85,544	322	210,106	213,354
Tanker:									
10 to 11 feet	2	3,018	4,060	—	—	—	2	3,018	4,060
12 " 13 "	—	—	—	1	1,699	2,405	1	1,699	2,405
14 " 15 "	5	5,874	9,551	7	8,988	13,872	12	14,862	23,423
16 " 17 "	62	82,113	131,583	79	98,894	163,768	141	181,007	295,351
18 " 19 "	8	14,286	20,211	12	21,605	31,137	20	35,891	51,348
20 " 21 "	11	27,000	36,077	37	99,790	148,076	48	126,790	184,153
22 " 23 "	2	5,181	7,759	20	56,501	82,482	22	61,682	90,241
Totals	90	137,472	209,241	156	287,477	441,740	246	424,949	650,981
Tug or dredge:									
5 feet and under	8	99	144	7	110	154	15	209	298
6 to 7 feet	37	1,349	1,816	38	1,452	1,890	75	2,801	3,706
8 " 9 "	2	50	50	1	22	33	3	72	83
10 " 11 "	155	8,584	20,964	156	10,487	22,603	311	19,071	43,567
12 " 13 "	4	796	1,282	1	245	416	5	1,041	1,698
14 " 15 "	14	2,947	4,906	8	2,024	2,677	22	4,971	7,583
Totals	220	13,825	29,162	211	14,340	27,773	431	28,165	56,935
Other vessels:									
5 feet and under	222	1,670	2,319	205	626	732	427	2,296	3,051
6 to 7 feet	28	1,656	2,248	141	6,774	9,551	169	8,430	11,799
8 " 9 "	1	62	80	2	66	84	3	128	164
10 " 11 "	3	372	1,011	4	872	1,611	7	1,244	2,622
12 " 13 "	1	162	239	1	165	243	2	327	482
14 " 15 "	1	507	929	1	507	989	2	1,014	1,918
16 " 17 "	1	572	1,673	—	—	—	1	572	1,673
18 " 19 "	1	2,393	3,383	—	—	—	1	2,393	3,383
Totals	258	7,394	11,882	354	9,010	13,210	612	16,404	25,092
Grand totals	1,372	1,541,686	2,206,261	3,056	1,146,086	1,676,368	4,428	2,687,772	3,882,629

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
tons									
Ports between Sault Ste. Marie and Gulf of St. Lawrence:									
Canada	305,507	17,642	323,149	1,322	—	1,322	306,829	17,642	324,471
United States	78,220	—	78,220	21,901	6,670	28,571	100,121	6,670	106,791
Totals	383,727	17,642	401,369	23,223	6,670	29,893	406,950	24,312	431,262
Ports outside Gulf of St. Lawrence:									
United Kingdom	—	185	185	—	—	—	—	185	185
Belgium	—	720	720	—	2,799	2,799	—	3,519	3,519
Germany	—	942	942	—	29	29	—	971	971
Netherlands	—	117	117	—	1,642	1,642	—	1,759	1,759
Totals	—	1,964	1,964	—	4,470	4,470	—	6,434	6,434
Grand totals	383,727	19,606	403,333	23,223	11,140	34,363	406,950	30,746	437,696

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

Country of unloading	Cargo loaded								
	In Canada			In United States			Total		
	Bulk	General	Total	Bulk	General	Total	Bulk	General	Total
tons									
Ports between Sault Ste. Marie and Gulf of St. Lawrence:									
Canada	376,139	148,192	524,331	10,381	—	10,381	386,520	148,192	534,712
United States	123,706	116,939	240,645	—	228	228	123,706	117,167	240,873
Totals	499,845	265,131	764,976	10,381	228	10,609	510,226	265,359	775,585
Ports outside the Gulf of St. Lawrence:									
Canada Atlantic ports	2,007	143	2,150	—	—	—	2,007	143	2,150
United States Atlantic ports	—	—	—	9,710	—	9,710	9,710	—	9,710
United Kingdom	2,178	—	2,178	2,141	—	2,141	4,319	—	4,319
Germany	—	—	—	—	1,107	1,107	—	1,107	1,107
Netherlands	—	—	—	111	—	111	111	—	111
Other Europe	—	—	—	2,016	—	2,016	2,016	—	2,016
Totals	4,185	143	4,328	13,978	1,107	15,085	18,163	1,250	19,413
Grand totals	504,030	265,274	769,304	24,359	1,335	25,694	528,389	266,609	794,998

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	366,113	17,642	383,755
	United States	40,837	6,670	47,507
	Totals	406,950	24,312	431,262
Ports outside the Gulf of St. Lawrence	United Kingdom	—	185	185
	Denmark	—	1,253	1,253
	Germany	—	4,996	4,996
	Totals	—	6,434	6,434
	Grand totals	406,950	30,746	437,696

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	505,056	265,126	770,182
	United States	5,170	233	5,403
	Totals	510,226	265,359	775,585
Ports outside the Gulf of St. Lawrence	United States	9,710	—	9,710
	United Kingdom	2,007	143	2,150
	Germany	111	1,107	1,218
	Norway	6,335	—	6,335
	Totals	18,163	1,250	19,413
Grand totals	528,389	266,609	794,998	

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	52	11	63	1,360	4	1,364	124.0	1,814	—	1,814	—	—	—	—
1,000 to 1,999	103	17	120	15,108	4,329	19,437	1,143.3	25	96	121	113,550	109,357	222,907	2,321.9
2,000 " 2,999	78	99	177	109,766	13,659	123,425	1,246.7	15	115	130	226,364	19,867	246,231	2,141.1
3,000 " 3,999	114	58	172	36,883	6,224	43,107	743.2	17	84	101	36,776	131,026	167,802	1,997.6
4,000 " 4,999	41	5	46	5,302	6,017	11,319	2,263.8	4	8	12	26,646	6,061	32,707	4,088.4
5,000 " 5,999	4	2	6	5,710	—	5,710	2,855.0	—	—	—	—	—	—	—
6,000 " 6,999	41	8	49	13,941	450	14,391	1,798.9	2	1	3	46	—	46	46.0
7,000 " 7,999	1	—	1	—	—	—	—	—	—	—	—	—	—	—
8,000 " 8,999	1	—	1	—	—	—	—	—	—	—	—	—	—	—
12,000 " 12,999	1	—	1	—	—	—	—	—	—	—	—	—	—	—
Totals	436	200	636	188,070	30,683	218,753	1,093.8	1,877	304	2,181	403,382	266,311	669,693	2,202.9
Barge or scow:														
Under 1,000 gross tons	148	2	150	—	62	82	31.0	18	131	149	80,989	285	81,274	620.4
1,000 to 1,999	3	—	3	—	—	—	—	—	4	4	9,710	—	9,710	2,427.5
2,000 " 2,999	2	—	2	—	—	—	—	—	—	—	—	—	—	—
3,000 " 3,999	13	—	13	—	—	—	—	—	1	1	3,840	—	3,840	3,840.0
Totals	166	2	168	—	62	62	31.0	16	136	154	94,539	285	94,824	697.2
Tanker:														
1,000 to 1,999	7	42	49	120,001	—	120,001	2,857.2	57	10	67	25,298	—	25,298	2,529.8
2,000 " 2,999	3	22	25	63,471	—	63,471	2,885.0	31	—	31	—	—	—	—
3,000 " 3,999	7	7	14	29,663	—	29,663	4,237.6	21	1	22	5,170	—	5,170	5,170.0
4,000 " 4,999	1	1	2	5,745	—	5,745	5,745.0	30	—	30	—	—	—	—
5,000 " 5,999	—	—	—	—	—	—	—	6	—	6	—	—	—	—
Totals	18	72	90	218,880	—	218,880	3,040.0	145	11	156	30,468	—	30,468	2,769.8
Other vessels:														
Under 1,000 gross tons	474	1	475	—	1	1	1.0	563	2	565	—	13	13	6.5
1,000 to 1,999	2	—	2	—	—	—	—	—	—	—	—	—	—	—
3,000 " 3,999	1	—	1	—	—	—	—	—	—	—	—	—	—	—
Totals	477	1	478	—	1	1	1.0	563	2	565	—	13	13	6.5
Grand totals	1,097	275	1,372	406,950	30,746	437,696	1,591.6	2,603	453	3,056	528,389	266,609	794,998	1,755.0

TABLE 40A. 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	351	—	—	—	—	—	—	—	351	—	351
Products of agriculture, n.o.s.	310	—	—	—	—	—	—	47	310	47	357
Totals	661	—	—	—	—	—	—	47	661	47	708
Animals and products:											
Animals and products, n.o.s.	30	—	—	—	—	—	—	—	30	—	30
Products of mines:											
Bituminous coal	—	—	18,128	—	—	—	—	—	18,128	—	18,128
Stone and rock, broken, crushed, etc.	—	—	2,649	—	—	—	—	—	2,649	—	2,649
Stone, rough n.o.s.	—	—	15,272	—	—	—	—	—	15,272	—	15,272
Salt	14,348	—	6,070	—	—	—	—	—	20,418	—	20,418
Sulphur	—	—	12,673	—	—	—	—	—	12,673	—	12,673
Products of mines, n.o.s.	20	—	—	—	—	—	—	—	20	—	20
Totals	14,368	—	54,792	—	—	—	—	—	69,160	—	69,160
Products of forests:											
Logs	—	1,322	—	38	—	—	—	—	—	1,360	1,360
Manufactures and miscellaneous:											
Gasoline	69,337	—	4,410	12,350	—	—	—	—	73,747	12,350	86,097
Fuel, road, and petroleum residual oil	101,545	—	13,545	9,513	—	—	—	—	115,090	9,513	124,603
Petroleum products, refined	312	—	5,473	—	—	—	—	—	5,785	—	5,785
Tar, pitch and creosote	2,944	—	—	—	—	—	—	—	2,944	—	2,944
Iron and steel, bar, rod and slab	—	—	—	6,017	—	—	250	—	250	6,017	6,267
Iron and steel, n.o.s.	125	—	—	—	185	—	67	2,607	377	2,607	2,984
Food products	4,574	—	—	—	—	—	—	—	4,574	—	4,574
Manufactures and miscellaneous, n.o.s.	11,505	—	—	653	—	—	1,462	1,816	12,967	2,469	15,436
Totals	190,342	—	23,428	28,533	185	—	1,779	4,423	215,734	32,956	248,690
Domestic package freight	117,748	—	—	—	—	—	—	—	117,748	—	117,748
Grand totals	323,149	1,322	78,220	28,571	185	—	1,779	4,470	403,333	34,363	437,696

TABLE 40B. 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	84,954	—	2,178	—	87,132	—	—	—	—	—	87,132
Corn	—	—	—	—	—	4,840	—	2,141	—	6,981	6,981
Oats	32,733	—	—	—	32,733	—	—	—	—	—	32,733
Barley	33,305	2,924	—	—	36,229	—	—	—	—	—	36,229
Rye	1,705	—	—	—	1,705	—	—	—	—	—	1,705
Grain, n.o.s.	3,718	—	—	—	3,718	—	—	—	—	—	3,718
Flour, wheat	2,007	—	—	—	2,007	—	—	—	—	—	2,007
Mill products, n.o.s.	90,133	—	—	—	90,133	—	—	—	—	—	90,133
Soybean oil, cake and meal	—	—	—	—	—	—	2,500	—	—	2,500	2,500
Malt	45,416	—	—	—	45,416	—	—	—	—	—	45,416
Flaxseed	5,356	—	—	—	5,356	5,541	—	—	2,016	7,557	12,913
Products of agriculture, n.o.s.	5	—	—	—	5	—	—	—	—	—	5
Totals	289,332	2,924	2,178	—	304,434	10,381	2,500	2,141	2,016	17,038	321,472
Products of mines:											
Gravel and sand	80,451	—	—	—	80,451	—	—	—	—	—	80,451
Products of mines n.o.s.	538	—	—	—	538	—	—	—	111	111	649
Totals	80,989	—	—	—	80,989	—	—	—	111	111	81,100
Products of forests:											
Pulpwood	—	9,845	—	—	9,845	—	—	—	—	—	9,845
Manufactures and miscellaneous:											
Fuel, road, and petroleum residual oil	6,376	—	—	—	6,376	—	—	—	—	—	6,376
Soybean oil	—	—	—	—	—	—	7,210	—	—	7,210	7,210
Chemicals	1,865	5,170	—	—	7,035	—	—	—	—	—	7,035
Tar, pitch and creosote	17,057	—	—	—	17,057	—	—	—	—	—	17,057
Iron, pig	—	11,096	—	—	11,096	—	—	—	—	—	11,096
Iron and steel, billet, bloom and ingot	10,396	11,374	—	—	21,770	—	—	—	—	—	21,770
Iron and steel, bar rod and slab	34,014	17,360	—	—	51,374	—	—	—	—	—	51,374
Iron and steel, n.o.s.	6,033	2,261	—	—	8,294	—	—	—	—	—	8,294
Manufactured iron and steel	4,197	525	—	—	4,722	—	228	—	—	228	4,950
Woodpulp	—	66,913	—	—	66,913	—	—	—	—	—	66,913
Newsprint paper	—	68,067	—	—	68,067	—	—	—	—	—	68,067
Feed, animal and poultry	19,231	—	—	—	19,231	—	—	—	1,107	1,107	20,338
Manufactures and miscellaneous, n.o.s.	12,189	29,827	—	—	42,016	—	—	—	—	—	42,016
Totals	111,358	212,593	—	—	323,951	—	7,438	—	1,107	8,545	332,496
Domestic package freight	34,802	15,283	—	—	50,085	—	—	—	—	—	50,085
Grand totals	526,481	240,645	2,178	—	769,304	10,381	9,938	2,141	3,234	25,694	794,998

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	475	404	879	505,602	775,037	269,650	—	345	692	1,037	673,274	1,031,936	842,676	121
United Kingdom	10	11	21	9,101	19,675	8,718	—	15	11	26	10,293	22,267	3,342	—
Other countries	1	1	2	1,808	2,902	113	—	1	1	2	1,808	2,902	113	—
Totals	486	416	902	516,511	797,614	278,481	—	361	704	1,065	685,375	1,057,105	846,131	121
Scow or barge:														
Canada	420	3	423	204,844	204,844	1,192	—	103	321	424	201,479	201,756	325,800	6
Tanker:														
Canada	10	13	23	21,527	35,810	18,377	—	26	—	26	24,006	38,674	—	—
Tug or dredge:														
Canada	612	—	612	20,943	46,529	—	—	584	2	586	19,271	42,720	500	—
United States	3	—	3	770	903	—	—	2	—	2	420	553	—	—
Totals	615	—	615	21,713	47,432	—	—	586	2	588	19,691	43,273	500	—
Other vessels:														
Canada	92	7	99	4,333	6,535	85	39	85	4	89	5,934	8,106	340	32
United States	3	—	3	367	375	—	4	7	—	7	394	401	—	5
United Kingdom	—	—	—	—	—	—	—	1	—	1	20	23	—	8
Totals	95	7	102	4,700	6,910	85	43	93	4	97	6,348	8,530	340	45
Grand totals	1,626	439	2,065	769,295	1,092,610	298,135	43	1,169	1,031	2,200	936,899	1,349,338	1,172,771	172

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	263	296,086	470,726	1,183	148,734	232,354	433	206,469	206,453	1,879	651,289	909,533
United States	—	—	—	1	2	2	—	—	—	1	2	2
United Kingdom	—	—	—	21	9,101	19,675	—	—	—	21	9,101	19,675
Other Commonwealth	—	—	—	1	1,002	1,367	—	—	—	1	1,002	1,367
Totals	263	296,086	470,726	1,206	158,839	253,398	433	206,469	206,453	1,902	661,394	930,577
Canada to United States:												
Canada	73	82,205	127,897	9	9,665	13,738	—	—	—	82	91,870	141,635
United States	—	—	—	5	1,135	1,276	—	—	—	5	1,135	1,276
Totals	73	82,205	127,897	14	10,800	15,014	—	—	—	87	93,005	142,911
United States to Canada:												
Canada	—	—	—	75	14,090	17,587	—	—	—	75	14,090	17,587
Other Commonwealth to Canada:												
Other Commonwealth	—	—	—	1	806	1,535	—	—	—	1	806	1,535
Totals, upbound	336	378,291	598,623	1,296	184,535	287,534	433	206,469	206,453	2,065	769,295	1,092,610
Downbound												
Canada to Canada:												
Canada	309	355,848	565,334	1,208	188,040	286,767	431	203,413	203,742	1,948	747,301	1,055,843
United States	—	—	—	2	12	14	—	—	—	2	12	14
United Kingdom	—	—	—	27	10,313	22,290	—	—	—	27	10,313	22,290
Other Commonwealth	—	—	—	1	606	1,535	—	—	—	1	606	1,535
Totals	309	355,848	565,334	1,238	199,171	310,606	431	203,413	203,742	1,978	758,432	1,079,882
Canada to United States:												
Canada	—	—	—	75	14,143	17,659	—	—	—	75	14,143	17,659
United States	—	—	—	2	11	16	—	—	—	2	11	16
Totals	—	—	—	77	14,154	17,675	—	—	—	77	14,154	17,675
Canada to United Kingdom:												
Other Commonwealth	—	—	—	1	1,002	1,367	—	—	—	1	1,002	1,367
United States to Canada:												
Canada	127	145,222	225,597	12	17,298	24,093	—	—	—	139	162,520	249,690
United States	—	—	—	5	791	924	—	—	—	5	791	924
Totals	127	145,222	225,597	17	18,089	25,017	—	—	—	144	163,311	250,614
Totals downbound	436	501,070	790,931	1,333	232,416	354,665	431	203,413	203,742	2,200	936,899	1,349,338
Grand totals	772	879,361	1,389,554	2,629	416,951	642,199	864	409,882	410,195	4,265	1,706,194	2,441,948

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	100,502	220,633	—	—	—	2,801	100,502	223,434
Corn	3,080	—	—	—	—	—	3,080	—
Oats	—	11,246	—	—	—	—	—	11,246
Barley	3,259	10,531	—	—	—	—	3,259	10,531
Other grain	2,405	858	—	—	—	—	2,405	858
Other mill products	—	2,225	—	—	—	—	—	2,225
Soybean oil cake and meal	—	—	—	113	—	—	—	113
Malt	—	43,982	—	—	—	—	—	43,982
Flaxseed	—	4,081	—	—	—	—	—	4,081
Products of agriculture, n.o.s.	738	—	—	—	—	—	738	—
Animal products	374	—	—	—	—	—	374	—
Bituminous coal	11,183	17,689	—	—	—	344,850	11,183	362,539
Iron ore	250	—	—	—	—	2,514	250	2,514
Gravel and sand	—	325,192	—	—	—	—	—	325,192
Products of mines, n.o.s.	—	312	—	—	—	—	—	312
Lumber, shingles and lath	28,913	1,608	—	—	—	—	28,913	1,608
Products of forests, n.o.s.	850	750	—	—	—	—	850	750
Fuel, road and petroleum residual oils	9,458	197	—	—	—	—	9,458	197
Tar, pitch and creosote	8,919	—	—	—	—	—	8,919	—
Manufactured iron and steel	—	2,118	—	—	—	—	—	2,118
Cement	218	3,712	—	—	—	—	218	3,712
Wallboard	8,598	—	—	—	—	—	8,598	—
Building materials	—	3,783	—	—	—	—	—	3,783
Food products	69	12,704	—	—	—	—	69	12,704
Scrap iron and steel	1,762	—	—	—	—	—	1,762	—
Manufactures and miscellaneous, n.o.s.	19,975	32,974	80	—	8,646	—	28,701	32,974
Domestic package freight	88,797	127,898	59	—	—	—	88,856	127,898
Totals	289,350	822,493	139	113	8,646	350,165	298,135	1,172,771
Passengers	No. 32	167	9	5	2	—	43	172

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	29	32	61	75,880	104,410	71,904	—	22	18	40	43,903	65,742	47,241	—
Other countries	—	1	1	560	1,109	1,407	—	—	—	—	—	—	—	—
Totals	29	33	62	76,440	105,519	73,311	—	22	18	40	43,903	65,742	47,241	—
Scow or barge:														
Canada	61	—	61	11,520	11,520	—	—	65	3	68	13,449	13,449	200	—
United States	1	—	1	680	680	—	—	1	—	1	680	680	—	—
United Kingdom	—	—	—	—	—	—	—	1	—	1	150	150	—	—
Other countries	1	—	1	256	256	—	—	—	—	—	—	—	—	—
Totals	63	—	63	12,456	12,456	—	—	67	3	70	14,279	14,279	200	—
Tanker:														
Canada	3	68	71	30,038	40,433	75,876	—	69	—	69	29,799	40,148	—	—
United States	—	1	1	120	136	61	—	—	—	—	—	—	—	—
Totals	3	69	72	30,158	40,569	75,937	—	69	—	69	29,799	40,148	—	—
Tug or dredge:														
Canada	123	—	123	4,759	12,556	—	—	144	—	144	7,911	18,206	—	—
United Kingdom	4	—	4	21	213	—	—	1	—	1	8	10	—	—
Totals	127	—	127	4,780	12,769	—	—	145	—	145	7,919	18,216	—	—
Other vessels:														
Canada	44	4	48	2,165	3,785	69	9	38	2	40	1,237	2,151	18	9
United States	12	—	12	3,476	3,679	—	—	12	1	13	4,101	4,107	100	—
Totals	56	4	60	5,641	7,464	69	9	50	3	53	5,338	6,258	118	9
Grand totals	278	106	384	129,475	178,777	149,317	9	353	24	377	101,238	144,643	47,559	9

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	40	26,909	45,149	244	71,791	97,907	67	12,762	12,817	351	111,462	155,873
United States	—	—	—	4	186	202	1	680	680	5	866	882
United Kingdom	1	3	175	3	18	38	1	258	256	5	277	469
Totals	41	26,912	45,324	251	71,995	98,147	69	13,698	13,753	361	112,605	157,224
Canada to United States:												
Canada	2	2,796	4,146	10	10,094	12,871	—	—	—	12	12,890	16,817
United States	—	—	—	6	3,407	3,610	1	3	3	9	3,410	3,613
Totals	2	2,796	4,146	18	13,501	16,281	1	3	3	21	16,300	20,430
United States to Canada:												
Canada	—	—	—	1	10	14	—	—	—	1	10	14
Other Commonwealth to Canada:												
United Kingdom	1	560	1,109	—	—	—	—	—	—	1	560	1,109
Totals, upbound	44	30,268	50,579	270	85,506	114,442	70	13,701	13,756	384	129,475	178,777
Downbound												
Canada to Canada:												
Canada	43	25,619	44,346	219	31,923	48,974	78	18,070	16,328	340	73,612	109,648
United States	—	—	—	3	66	66	1	680	680	4	746	746
United Kingdom	—	—	—	1	8	10	1	150	150	2	158	160
Totals	43	25,619	44,346	223	31,997	49,050	80	16,900	17,158	346	74,516	110,554
United States to Canada:												
Canada	4	3,852	6,578	16	18,805	23,440	1	30	30	21	22,687	30,048
United States	1	420	420	8	3,612	3,618	1	3	3	10	4,035	4,041
Totals	5	4,272	6,998	24	22,417	27,058	2	33	33	31	26,722	34,089
Totals, downbound	48	29,891	51,344	247	54,414	76,108	82	16,933	17,191	377	101,238	144,643
Grand totals	92	60,159	101,923	517	139,920	190,550	152	30,634	30,947	761	230,713	323,420

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	50,106	1,870	—	—	—	39,771	50,106	41,641
Salt	—	—	—	—	—	5,600	—	5,600
Sulphur	21,798	—	—	—	—	—	21,798	—
Fuel, road, and petroleum residual oils	75,937	—	—	—	—	—	75,937	—
Clay and bentonite	—	—	1,407	—	—	—	1,407	—
Manufactures and miscellaneous	69	158	—	—	—	160	69	318
Totals	147,910	2,028	1,407	—	—	45,531	149,317	47,559
Passengers	No.	9	9	—	—	—	9	9

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	319,822	9,443	329,265	3,997,873	2	3,997,875	4,317,695	9,445	4,327,140
Other Canadian Lake Superior ports	20,432	328	20,760	204,030	3,532	207,562	224,462	3,860	228,322
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
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	180,753	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	20,581	676	21,237	91,501	993	92,494
Lachine canal	1,350,768	26,667	1,377,435	153,459	66,826	220,285	1,504,227	93,493	1,597,720
Montreal	3,058,547	10,204	3,068,751	1,870,559	16,931	1,887,490	4,929,106	27,135	4,956,241
Contrecoeur	-	8	8	1,108,554	-	1,108,554	1,108,554	8	1,108,562
Sorel	666,231	132	666,363	197,843	59	197,902	864,074	191	864,265
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
Halifax	52,727	5,553	58,276	2,231	2,684	4,915	54,954	8,237	63,191
Saint John	1,890	-	1,890	-	-	-	1,890	-	1,890
Other Canadian Atlantic Coast and Gulf of St. Lawrence ports	43,624	12,772	56,396	64,748	60,990	125,738	106,372	73,762	182,134
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	20,625,635	480,284	21,105,919	18,546,686	719,995	19,266,681	39,172,321	1,200,279	40,372,600

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	1,683,778	1,176	1,684,952	1,683,776	11,522	1,695,298
Superior	-	393	393	895,653	-	895,653	895,653	393	896,046
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	3,697,759	224	3,697,983
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
Lorain	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	11,754,530	472,954	12,227,484	19,209,621	1,704,359	20,914,180
Grand totals	28,080,926	1,711,689	29,792,615	30,301,216	1,192,949	31,494,165	58,382,142	2,904,638	61,286,780

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	165,241	13,693	178,934	109,467	156,954	266,421	274,708	170,647	445,355
Other Canadian Lake Superior ports	97,442	79	97,521	166,968	106,299	273,267	264,410	106,378	370,788
Little Current	3,875	—	3,875	—	—	—	3,875	—	3,875
Other Canadian Lake Huron ports	92,246	151	92,397	1,599	60	1,659	93,845	211	94,056
Other Georgian Bay ports	34,739	84,504	119,243	42	6,024	6,066	34,781	90,528	125,309
Sarnia	2,227	5,525	7,752	142,778	1,401	144,179	145,005	6,926	151,931
Windsor	3,337	29,019	32,356	20,203	5,495	25,698	23,540	34,514	58,054
Other Canadian St. Clair Lake and river and Detroit river ports	2,033	—	2,033	12,039	788	12,827	14,072	788	14,860
Port Colborne	29,066	27,115	56,181	—	—	—	29,066	27,115	56,181
Other Canadian Lake Erie ports	20	—	20	9,124	4	9,128	9,144	4	9,148
Totals	430,226	160,086	590,312	462,220	277,025	739,245	892,446	437,111	1,329,557
In United States:									
Duluth	—	650	650	—	—	—	—	650	650
Superior	6,605	6,017	12,622	—	—	—	6,605	6,017	12,622
Other United States Lake Superior Ports	16,618	3	16,621	—	228	228	16,618	231	16,849
Chicago	2,261	22,297	24,558	40,614	6,017	46,631	42,875	28,314	71,189
Milwaukee	11,749	54,290	66,039	—	—	—	11,749	54,290	66,039
Other United States Lake Michigan ports	56,764	5	56,769	6,108	—	6,108	62,872	5	62,877
United States Lake Huron ports	5,170	228	5,398	17,921	—	17,921	23,091	228	23,319
Detroit	24,492	39,478	63,970	4,741	650	5,391	29,233	40,128	69,361
Other United States St. Clair Lake and river and Detroit river ports	—	—	—	5,745	—	5,745	5,745	—	5,745
Ashtabula	—	—	—	2,400	—	2,400	2,400	—	2,400
Cleveland	1,631	869	2,500	—	—	—	1,631	869	2,500
Lorain	—	—	—	2,017	—	2,017	2,017	—	2,017
Sandusky	—	—	—	—	3	3	—	3	3
Toledo	6,825	—	6,825	20,575	—	20,575	27,400	—	27,400
Totals	132,115	123,837	255,952	100,121	6,898	107,019	232,236	130,735	362,971
Grand totals	562,341	283,923	846,264	562,341	283,923	846,264	1,124,682	567,846	1,692,528

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

	Upbound			Downbound			Grand total 1959	Grand total 1958
	Canadian canal	United States canal ²	Total	Canadian canal	United States canal ²	Total		
Vessel passages	1,372	8,155	9,527	3,056	6,479	9,535	19,062	16,633
Registered net tonnage of vessels	1,541,686	28,164,459	29,706,145	1,146,086	28,854,680	29,800,766	59,506,911	83,776,106
Passengers	14,885	167,885	182,770	176,836	8,280	187,116	369,886	289,714
	Cargo tons							
Paper and woodpulp	—	—	—	66,913	20,928	87,841	87,841	213,840
Pulpwood, lumber and logs	1,360	—	1,360	9,845	281,318	291,163	292,523	283,100
Wheat	—	—	—	67,132	7,409,121	7,496,253	7,496,253	7,477,926
Barley	—	—	—	6,981	1,919,265	1,926,246	1,926,246	2,064,006
Oats	—	—	—	32,733	1,030,860	1,063,593	1,063,593	863,851
Corn	—	—	—	36,229	386,645	424,874	424,874	263,251
Rye	—	—	—	147,192	148,267	295,459	295,459	205,814
Flaxseed	—	—	—	12,913	436,392	449,305	449,305	421,580
Flour	351	—	351	2,007	62,824	64,831	65,182	35,667
Other grain and mill products	—	—	—	93,851	119,873	213,724	213,724	202,768
Iron ore	—	52,860	52,860	—	47,161,632	47,161,632	47,214,492	54,188,010
Manufactured iron and steel	9,251	116,454	125,705	4,950	21,641	26,591	152,296	319,156
Pig iron	—	30,586	30,586	11,096	274,264	285,360	315,946	134,428
Scrap iron	—	—	—	—	111,381	111,381	111,381	153,929
Sand, gravel and stone	17,921	1,301,990	1,319,911	60,969	—	80,989	1,400,900	1,393,321
Crude oil	—	—	—	—	—	—	—	331,700
Fuel oil	124,603	342,193	466,796	6,376	—	8,378	473,172	433,051
Other petroleum products	5,785	23,265	29,050	—	—	—	29,050	37,191
Gasoline	86,097	200,251	286,348	—	—	—	286,348	336,805
Cement	—	370,416	370,416	—	—	—	370,416	290,183
Coal, bituminous	18,128	7,343,227	7,361,355	—	—	—	7,361,355	6,388,803
Coal, anthracite	—	150,106	150,106	—	—	—	150,106	76,387
Coke	—	31,369	31,369	—	—	—	31,369	41,052
Salt	20,418	—	20,418	—	—	—	20,418	119,281
Autos, trucks and parts	—	26,147	26,147	—	—	—	26,147	26,836
Other freight	153,782	281,014	434,796	341,908	18,423	360,331	795,127	379,777
Totals	437,696	10,269,878	10,707,574	794,998	59,403,759	60,198,757	70,906,331	76,681,513

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 .....	...	16,280,251 ⁴	3,010,102 ⁴	33,144,392 ⁴	4,009,648	3,560,186	60,004,579
Lake Michigan	1,267,110 ⁴	...	...	...	694,974	373,232	..
Lake Huron	1,811,682 ⁴	..	..	..	317,013	179,216	..
Lake Erie ²	7,260,049 ⁴	..	..	..	4,974,054	3,658,052	..
Lake Ontario ³	285,435	198,962	120,956	669,138	..	1,986,577	3,261,068
St. Lawrence river	100,854	304,062	51,390	11,456,154	2,765,052	..	14,677,512
Totals	10,745,130	..	..	..	12,760,741	9,757,263	..

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	1959 Total	1958 Total
cargo tons										
Upbound:										
St. Lawrence and Ottawa	—	—	—	—	—	—	—	6	6	—
St. Lawrence and Richelieu ¹	—	—	—	—	—	—	—	—	—	14,354
St. Lawrence only	3,259	102,954	323,064	13,666	49,717	265,055	1,164,443	1,854,873	3,777,031	1,930,876
St. Lawrence and Welland	—	9	—	267,432	256,555	125,104	5,108,314	1,574,843	7,332,257	2,691,046
St. Lawrence, Welland and Sault Ste. Marie	—	—	—	—	—	—	—	45,905	45,905 ²	33,971 ³
Welland only	—	18,320	—	177,577	—	13,983	276,042	1,646,745	2,132,667	2,205,943
Welland and Sault Ste. Marie	—	—	—	—	—	—	—	85,443	85,443 ²	74,627 ³
Sault Ste. Marie only	—	—	—	—	—	18,128	—	288,220	306,348 ²	238,571 ³
Totals	3,259	121,283	323,064	458,675	306,272	422,270	6,548,799	5,496,035	13,679,657	7,189,388
Downbound:										
St. Lawrence and Ottawa	—	—	—	—	—	—	—	327,600	327,600	189,980
St. Lawrence and Richelieu ¹	—	—	—	—	—	—	—	17,449	17,449	—
St. Lawrence only	79,994	1,122,662	—	—	—	257,436	62	827,368	2,287,542	3,363,611
St. Lawrence and Welland	902,224	2,326,303	—	—	—	489,473	2,516	3,532,400	7,252,916	3,459,443
St. Lawrence, Welland and Sault Ste. Marie	14,025	35,484	—	—	—	—	—	137,326	186,835 ²	78,819 ³
Welland only	287,283	1,561,889	—	3,176	96,169	4,156,848	1,909,601	2,386,494	10,401,460	12,510,028
Welland and Sault Ste. Marie	10,707	13,979	—	—	—	—	—	43,561	68,247 ²	220,317 ³
Sault Ste. Marie only	11,497	37,669	—	68,067	9,845	—	—	412,838	539,916 ²	582,356 ³
Totals	1,305,730	5,097,986	—	71,243	106,014	4,903,757	1,912,179	7,685,056	21,081,965	20,404,554

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		United States
	Canada	United States	Canada	United States	Canada	United States	Canada	United States	
	number								
St. Lawrence section	1,136	2,213	18	615	49	61	1,203	2,889	
Welland section	11	1,731	11	343	—	61	22	2,135	
Sault Ste. Marie Section	5,176	8	973	8,728	—	—	6,149	8,736	
Totals	6,323	3,952	1,002	9,686	49	122	7,374	13,760	
	Downbound								
	Canada to			United States to			Total to		
	Canada	United States	Other countries	Canada	United States	Other countries	Canada	United States	Other countries
	number								
St. Lawrence section	1,147	40	51	2,471	626	59	3,618	666	110
Welland section	17	195	1	1,819	308	59	1,836	503	90
Sault Ste. Marie section	5,345	19	—	479	172,993	—	5,824	173,012	—
Totals	6,509	254	52	4,769	173,927	118	11,278	174,181	170

TABLE 53. Water Freight Charges on the Great Lakes for Wheat, 1959 and 1958

Fort William—Port Arthur to	1959			1958		
	Average charge per bushel ¹	Average charge per ton	Average charge per ton-mile	Average charge per bushel ¹	Average charge per ton	Average charge per ton-mile
	cents	\$	cents	cents	\$	cents
Montreal:						
April	13.00	4.33	0.353	16.00	5.33	0.434
May	13.59	4.53	0.369	16.00	5.33	0.434
June	13.00	4.33	0.353	16.00	5.33	0.434
July	13.04	4.35	0.354	16.00	5.33	0.434
August	13.09	4.36	0.355	16.00	5.33	0.434
September	13.63	4.54	0.370	16.00	5.33	0.434
October	13.57	4.52	0.368	16.00	5.33	0.434
November	13.38	4.46	0.363	16.00	5.33	0.434
December	—	—	—	—	—	—
Average	13.32	4.44	0.361	16.00	5.33	0.434
Winter storage	16.50	5.50	0.448	—	—	—
Goderich and Georgian Bay ports:						
April	4.50	1.50	0.279	5.50	1.83	0.341
May	4.50	1.50	0.279	5.50	1.83	0.341
June	4.50	1.50	0.279	5.50	1.83	0.341
July	4.50	1.50	0.279	5.50	1.83	0.341
August	4.50	1.50	0.279	5.50	1.83	0.341
September	4.50	1.50	0.279	5.50	1.83	0.341
October	4.69	1.56	0.290	5.50	1.83	0.341
November	4.74	1.58	0.294	5.50	1.83	0.341
December	5.82	1.94	0.361	6.47	2.16	0.402
Average	4.72	1.57	0.292	6.04	2.01	0.374
Winter storage	9.43	3.14	0.585	10.34	3.45	0.642
Port Colborne:						
April	6.50	2.17	0.256	7.50	2.50	0.295
May	6.50	2.17	0.256	7.50	2.50	0.295
June	6.50	2.17	0.256	7.50	2.50	0.295
July	6.41	2.14	0.252	7.50	2.50	0.295
August	6.42	2.14	0.252	7.50	2.50	0.295
September	6.40	2.13	0.251	7.50	2.50	0.295
October	6.93	2.31	0.272	7.50	2.50	0.295
November	7.30	2.43	0.286	7.50	2.50	0.295
December	7.21	2.40	0.283	8.54	2.84	0.335
Average	6.78	2.26	0.266	7.65	2.55	0.301
Winter storage	12.27	4.09	0.482	12.06	4.02	0.474
Buffalo:						
April	—	—	—	8.00	2.67	0.310
May	8.09	2.69	0.312	8.00	2.66	0.308
June	—	—	—	8.00	2.67	0.310
July	—	—	—	—	—	—
August	7.50	2.50	0.290	—	—	—
September	—	—	—	—	—	—
October	—	—	—	8.00	2.67	0.310
November	—	—	—	8.49	2.83	0.326
December	—	—	—	—	—	—
Average	8.05	2.68	0.311	8.11	2.70	0.313
Winter storage	—	—	—	—	—	—
Port Colborne to Montreal:						
April	8.50	2.83	0.745	8.50	2.83	0.745
May	7.65	2.55	0.671	8.46	2.82	0.742
June	7.36	2.45	0.645	8.50	2.83	0.745
July	7.46	2.49	0.655	8.50	2.83	0.745
August	7.38	2.46	0.647	8.50	2.83	0.745
September	7.50	2.50	0.658	8.50	2.83	0.745
October	7.49	2.50	0.658	8.50	2.83	0.745
November	7.53	2.51	0.660	8.50	2.83	0.745
December	—	—	—	8.50	2.83	0.745
Average	7.44	2.48	0.653	8.50	2.84	0.745

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, 1959

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	13.08	5.45	0.444	10.79	6.35	0.517
May	12.88	5.37	0.437	10.79	6.34	0.516
June	12.88	5.36	0.436	10.73	6.31	0.514
July	12.50	5.21	0.424	10.42	6.13	0.499
August	12.45	5.19	0.423	10.83	6.37	0.519
September	12.41	5.17	0.421	10.03	5.90	0.480
October	12.89	5.37	0.437	10.75	6.32	0.515
November	13.49	5.62	0.458	11.06	6.50	0.529
December	—	—	—	—	—	—
Average	12.88	5.37	0.437	10.67	6.28	0.511
Goderich and Georgian Bay ports:						
April	4.50	1.87	0.348	4.00	2.35	0.438
May	4.50	1.87	0.348	4.02	2.36	0.439
June	4.50	1.87	0.348	4.00	2.35	0.438
July	4.50	1.87	0.348	4.00	2.35	0.438
August	4.49	1.87	0.348	4.00	2.35	0.438
September	4.50	1.87	0.348	4.00	2.35	0.438
October	5.00	2.08	0.387	4.82	2.83	0.527
November	5.11	2.13	0.396	4.71	2.77	0.516
December	5.63	2.35	0.438	5.50	3.23	0.601
Average	4.83	2.01	0.374	4.38	2.58	0.480
Port Colborne:						
April	6.50	2.71	0.319	3.00	3.53	0.416
May	6.29	2.62	0.309	5.80	3.41	0.409
June	6.50	2.71	0.319	—	—	—
July	6.50	2.71	0.319	—	—	—
August	6.46	2.69	0.317	6.00	3.53	0.416
September	—	—	—	—	—	—
October	7.02	2.92	0.344	6.50	3.82	0.450
November	7.00	2.91	0.343	6.75	3.97	0.468
December	—	—	—	—	—	—
Average	6.82	2.84	0.335	6.19	3.64	0.429
Buffalo:						
April	—	—	—	6.57	3.86	0.448
May	8.50	3.54	0.411	—	—	—
June	7.50	3.12	0.362	7.50	4.41	0.516
July	—	—	—	—	—	—
August	7.50	3.12	0.362	—	—	—
September	7.50	3.12	0.362	—	—	—
October	—	—	—	—	—	—
November	7.85	3.27	0.379	—	—	—
December	—	—	—	—	—	—
Average	7.76	3.23	0.375	6.84	4.08	4.473
Port Colborne to Montreal:						
April	—	—	—	—	—	—
May	6.75	2.81	0.739	—	—	—
June	—	—	—	—	—	—
July	—	—	—	—	—	—
August	6.50	2.71	0.713	5.50	3.24	0.853
September	6.50	2.71	0.713	5.50	3.24	0.853
October	—	—	—	5.50	3.24	0.853
November	6.50	2.71	0.713	—	—	—
December	—	—	—	—	—	—
Average	6.64	2.77	0.729	5.50	3.24	0.853

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, 1959

Port William — Port Arthur to	Flax			Rye		
	Average charge per bushel ¹	Average charge per ton	Average charge per ton-mile	Average charge per bushel ¹	Average charge per ton	Average charge per ton-mile
	cents	\$	cents	cents	\$	cents
Montreal:						
April.....	—	—	—	—	—	—
May.....	15.00	5.36	0.436	14.00	5.00	0.407
June.....	15.00	5.36	0.436	—	—	—
July.....	14.71	5.25	0.427	—	—	—
August.....	14.70	5.25	0.427	—	—	—
September.....	14.81	5.29	0.431	13.00	4.64	0.378
October.....	17.00	6.07	0.494	—	—	—
November.....	14.50	5.18	0.422	—	—	—
December.....	—	—	—	—	—	—
Average.....	14.98	5.35	0.436	13.67	4.88	0.397
Goderich and Georgian Bay ports:						
April.....	—	—	—	—	—	—
May.....	—	—	—	4.50	1.61	0.300
June.....	—	—	—	4.50	1.61	0.300
July.....	—	—	—	4.50	1.61	0.300
August.....	—	—	—	—	—	—
September.....	—	—	—	4.50	1.61	0.300
October.....	—	—	—	—	—	—
November.....	—	—	—	—	—	—
December.....	—	—	—	—	—	—
Average.....	—	—	—	4.50	1.61	0.300
Port Colborne:						
April.....	—	—	—	6.50	2.32	0.273
May.....	—	—	—	6.50	2.32	0.273
June.....	—	—	—	6.50	2.32	0.273
July.....	—	—	—	6.50	2.32	0.273
August.....	—	—	—	6.50	2.32	0.273
September.....	—	—	—	6.50	2.32	0.273
October.....	—	—	—	—	—	—
November.....	—	—	—	7.50	2.68	0.316
December.....	—	—	—	—	—	—
Average.....	—	—	—	6.93	2.47	0.291
Buffalo:						
April.....	—	—	—	8.00	2.86	0.332
May.....	—	—	—	—	—	—
June.....	—	—	—	8.00	2.86	0.332
July.....	—	—	—	7.50	2.68	0.311
August.....	—	—	—	—	—	—
September.....	—	—	—	—	—	—
October.....	—	—	—	7.50	2.68	0.311
November.....	—	—	—	—	—	—
December.....	—	—	—	—	—	—
Average.....	—	—	—	7.83	2.80	0.325
Port Colborne to Montreal:						
April.....	—	—	—	—	—	—
May.....	—	—	—	—	—	—
June.....	—	—	—	—	—	—
July.....	8.00	2.86	0.752	—	—	—
August.....	—	—	—	—	—	—
September.....	—	—	—	—	—	—
October.....	—	—	—	—	—	—
November.....	—	—	—	—	—	—
December.....	—	—	—	—	—	—
Average.....	8.00	2.86	0.752	—	—	—

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

TABLE 57. Historical Summary, 1950 - 59

	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Vessel transits - Up	300	332	217	236	274	373	209	244	198	198
Down	369	380	261	269	296	411	221	231	199	184
Totals	669	712	478	505	570	784	430	475	397	382
Registered net tons - Up	14,825	10,145	8,226	7,004	7,433	11,712	5,712	8,300	4,973	4,173
Down	15,180	11,937	10,104	8,344	7,192	15,612	5,232	6,938	5,091	4,377
Totals	30,005	22,082	18,330	15,348	14,625	27,324	10,944	15,238	10,064	8,550
Cargo tons - Up	2,795	3,143	1,481	2,052	1,594	1,901	727	1,389	863	262
Down	5,010	5,035	2,321	1,789	1,637	4,882	973	3,252	848	557
Totals	7,805	8,178	3,802	3,841	3,231	6,783	1,700	4,641	1,711	819
Season of navigation:										
First vessel passage	April 25	April 23	April 26	April 7	April 10	April 2	April 19	April 22	March 31	April 20
Last vessel passage	Jan. 13/51	Jan. 10/52	Jan. 7/53	Dec. 21	Jan. 10/55	Jan. 12/56	Dec. 21	Dec. 28	Dec. 19	Dec. 21

TABLE 58. Traffic on the St. Peter's Canal by Kind and Registry of Vessel, 1959

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	10	3	13	1,186	1,707	212	-	9	3	12	1,165	1,845	356	-
United States	1	-	1	160	222	-	-	-	-	-	-	-	-	-
Totals	11	3	14	1,346	1,929	212	-	9	3	12	1,165	1,845	356	-
Pleasure craft:														
Canada	6	-	6	96	112	-	4	5	-	5	71	85	-	5
United States	10	-	10	256	294	-	10	6	-	6	97	107	-	9
United Kingdom	1	-	1	13	20	-	8	-	-	-	-	-	-	-
Totals	17	-	17	365	426	-	22	11	-	11	168	192	-	14
All other types:														
Canada	160	2	162	2,429	3,497	50	2	128	28	156	3,009	4,551	201	4
United States	5	-	5	33	34	-	-	5	-	5	35	35	-	-
Totals	165	2	167	2,462	3,531	50	2	133	28	161	3,044	4,586	201	4
Grand totals	193	5	198	4,173	5,886	262	24	153	31	184	4,377	6,623	557	18

TABLE 59. Number and Tonnage of Vessels Using the St. Peter's Canal by Origin and Destination, Registry and Rig, 1959

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	5	798	1,533	172	2,450	3,320	4	463	463	181	3,711	5,316
	United States	—	—	—	8	206	245	2	34	34	10	240	279
	United Kingdom	—	—	—	1	13	20	1	160	222	2	173	242
United States to Canada....	United States	—	—	—	3	23	23	2	26	26	5	49	49
	Totals	5	798	1,533	184	2,692	3,608	9	683	745	198	4,173	5,886
Downbound:													
Canada to Canada	Canada	5	834	1,559	160	2,553	4,064	8	858	858	173	4,245	6,481
	United States	—	—	—	3	28	28	1	17	17	4	45	45
Canada to United States....	United States	—	—	—	5	67	77	2	20	20	7	87	97
	Totals	5	834	1,559	168	2,648	4,169	11	895	895	184	4,377	6,623
	Grand totals	10	1,632	3,092	352	5,340	7,777	18	1,578	1,640	382	8,550	12,509

TABLE 60. Commodities and Passengers Carried through the St. Peter's Canal by Country of Loading and Unloading, 1959

Commodity	Canada to Canada		Canada to United States		United States to Canada		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Products of agriculture	32	—	—	—	—	—	32	—
Animals and products	35	370	—	—	—	—	35	370
Products of mines	80	—	—	—	—	—	80	—
Products of forests	—	16	—	—	—	—	—	16
Manufactures and miscellaneous	115	171	—	—	—	—	115	171
Totals	262	557	—	—	—	—	262	557
Passengers	No. 14	9	—	9	10	—	24	18

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	32

TABLE 62. Historical Summary, 1955-59

	1955	1956	1957	1958	1959
Vessel transits — Up	251	1,685	660	616	625
Down	244	1,724	611	626	621
Totals	495	3,409	1,271	1,242	1,246
Registered net tons — Up	16,026	116,936	224,920	274,703	346,793
Down	15,078	132,164	186,507	262,409	284,839
Totals	31,104	249,100	411,427	537,112	631,632
Cargo tons — Up	6,112	33,103	233,908	364,044	476,318
Down	7,087	35,292	161,887	162,562	198,188
Totals	13,199	68,395	395,795	526,606	674,506
Season of navigation:					
First vessel passage	Sept. 2	April 9	Jan. 2 ¹	March 14	April 17
Last vessel passage	Jan. 27/56	Jan. 10/57	Dec. 31	Dec. 25	Dec. 31

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

TABLE 63. Traffic on the Canso Canal by Kind and Registry of Vessel, 1959

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	107	143	250	245,828	393,920	406,088	—	108	103	211	174,854	279,364	139,701	7
	United States	—	1	1	1,200	1,800	27	—	—	—	—	—	—	—	
	United Kingdom	7	4	11	3,879	8,884	1,028	—	2	10	12	8,645	17,758	15,011	—
	Other countries	10	24	34	43,886	77,353	68,454	5	8	28	36	42,329	68,053	35,870	—
	Totals	124	172	296	294,791	481,957	475,597	5	118	141	259	225,828	365,175	190,582	7
Pleasure craft	Canada	2	—	2	27	43	—	4	1	—	1	25	29	—	3
	United States	1	—	1	15	23	—	—	—	—	—	—	—	—	
	Totals	3	—	3	42	66	—	4	1	—	1	25	29	—	3
All other types	Canada	301	3	304	41,620	74,828	721	—	175	159	334	41,451	71,458	7,143	—
	United States	20	—	20	8,840	12,304	—	—	19	8	27	17,535	21,145	463	—
	United Kingdom	2	—	2	1,500	2,850	—	—	—	—	—	—	—	—	—
	Totals	323	3	326	51,960	89,982	721	—	194	167	361	58,986	92,603	7,606	—
	Grand totals ...	450	175	625	346,793	572,005	476,318	9	313	308	621	284,839	457,807	198,188	10

TABLE 64. Number and Tonnage of Vessels Using the Canso Canal by Origin and Destination, Registry and Rig, 1959

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	59	83,304	143,675	448	186,351	302,482	37	12,013	12,192	544	281,684	454,319
	United States	—	—	—	4	2,715	3,023	—	—	—	4	2,715	3,023
	United Kingdom	2	1,372	3,205	11	4,007	8,529	—	—	—	13	5,379	11,734
	Other countries	—	—	—	11	8,801	13,876	—	—	—	11	8,801	13,876
Canada to United States	Canada	—	—	—	2	834	1,698	—	—	—	2	834	1,698
	United States	—	—	—	1	162	239	—	—	—	1	162	239
Canada to other countries	Canada	—	—	—	1	86	143	—	—	—	1	86	143
United States to Canada	Canada	—	—	—	7	4,788	7,912	—	—	—	7	4,788	7,912
	United States	—	—	—	7	3,778	4,505	—	—	—	7	3,778	4,505
	Other countries	—	—	—	12	13,831	24,481	—	—	—	12	13,831	24,481
United States to United States	United States	—	—	—	10	3,400	6,360	—	—	—	10	3,400	6,360
United Kingdom to Canada	Other countries	—	—	—	1	1,818	3,500	—	—	—	1	1,818	3,500
	Canada	—	—	—	1	76	149	—	—	—	1	76	149
Other Commonwealth to Canada	Other countries	1	1,455	2,728	4	9,355	15,661	—	—	—	5	10,810	18,389
	Canada	—	—	—	—	—	—	—	—	—	—	—	—
Other Europe to Canada	Other countries	—	—	—	1	1,351	1,980	—	—	—	1	1,351	1,980
Other Countries to Canada	Canada	—	—	—	1	21	540	—	—	—	1	21	540
	Other countries	1	1,563	2,859	3	5,712	12,268	—	—	—	4	7,275	15,127
	Totals	63	87,694	152,467	525	247,086	407,346	37	12,013	12,192	625	346,793	572,005
Downbound:													
Canada to Canada	Canada	54	67,675	116,607	437	127,390	206,146	37	13,316	13,571	528	208,381	336,324
	United States	—	—	—	5	4,000	4,880	—	—	—	5	4,000	4,880
	United Kingdom	1	333	774	10	7,869	16,236	—	—	—	11	8,202	17,010
	Other countries	—	—	—	16	18,208	26,782	—	—	—	16	18,208	26,782
Canada to United States	Canada	—	—	—	16	7,309	13,539	—	—	—	16	7,309	13,539
	United States	—	—	—	17	9,220	11,131	1	154	227	18	9,374	11,358
	Other countries	2	2,980	4,377	7	5,094	8,528	—	—	—	9	8,074	12,905
Canada to United Kingdom	Other countries	—	—	—	1	1,395	2,393	—	—	—	1	1,395	2,393
Canada to Other Commonwealth	Other countries	—	—	—	2	3,218	5,911	—	—	—	2	3,218	5,911
Canada to other Europe	Other countries	2	2,567	4,905	4	5,680	9,659	—	—	—	6	8,247	14,564
Canada to other countries	Canada	—	—	—	1	261	498	—	—	—	1	261	498
	Other countries	—	—	—	2	3,187	5,498	—	—	—	2	3,187	5,498
United States to United States	United States	—	—	—	3	3,103	3,849	1	1,058	1,058	4	4,161	4,907
United Kingdom to Canada	United Kingdom	—	—	—	1	443	748	—	—	—	1	443	748
Other countries to Canada	Canada	1	379	500	—	—	—	—	—	—	1	379	500
	Totals	60	73,934	127,163	522	196,377	315,788	39	14,528	14,856	621	284,839	457,807
	Grand totals	123	161,628	279,630	1,047	443,463	723,134	76	26,541	27,048	1,246	631,632	1,029,812

TABLE 65. Commodities and Passengers Carried through the Canso Canal by Country of Loading and Unloading, 1959

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
Wheat	—	5,760	—	—	—	871	871	—	—	—	871	6,631
Flour	—	8,303	—	—	—	—	—	—	—	—	—	8,303
Potatoes, other than sweet	44	468	—	8,036	—	4,405	—	—	—	—	44	12,909
Sugar beets	—	—	—	—	—	—	—	—	10,076	—	10,076	—
Products of agriculture n.o.s.	—	379	—	90	—	—	—	—	—	—	—	469
Sea food	528	10,776	162	4,839	—	—	—	—	—	—	690	15,615
Animals and products	—	200	—	—	—	20	—	—	—	—	—	220
Sulphur	—	—	—	—	—	—	9,200	—	2,520	—	11,720	—
Gypsum rock	48,337	—	—	—	—	—	—	—	—	—	48,337	—
Aluminum ores and concentrates	—	—	—	—	—	—	—	—	17,364	—	17,364	—
Coke	—	—	—	—	—	—	—	—	2,756	—	2,756	—
Products of mines, n.o.s.	615	—	—	—	—	—	585	—	—	—	1,200	—
Ties, railroad	—	—	—	—	—	—	—	—	3,300	—	3,300	—
Pulpwood	3,800	—	—	2,000	—	7,047	—	—	—	—	3,800	9,047
Gasoline	185,714	58,835	—	—	—	—	—	—	—	—	185,714	58,835
Fuel, road and petroleum residual	173,339	10,469	—	—	—	—	—	—	—	—	173,339	10,489
Petroleum products, refined	3,000	3,800	—	—	—	—	—	—	—	—	3,000	3,800
Iron, pig	—	—	—	4,200	—	—	—	—	—	—	—	4,200
Cement	10	51,834	—	—	—	—	—	—	—	—	10	51,834
Paper and paper articles	—	—	—	—	—	1,000	—	—	—	—	—	1,000
Sugar	—	—	—	—	—	—	—	—	4,000	—	4,000	—
Domestic package freight	218	210	—	—	—	—	—	—	—	—	218	210
Manufactures and miscellaneous	4,138	9,216	—	110	—	5,320	3,511	—	2,230	—	9,879	14,646
Totals	419,743	160,250	162	19,275	—	18,663	14,167	—	42,246	—	476,318	198,188
Passengers	4	10	—	—	—	—	—	—	5	—	9	10

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, 1950-59

	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Vessel transits—Up	360	359	307	330	356	354	401	379	343	415
Down	332	360	307	325	353	347	307	382	345	407
Totals	692	719	614	655	709	701	708	761	688	822
Registered net tons—Up	54,102	51,405	44,318	48,917	55,644	50,241	56,166	61,634	54,390	60,918
Down	50,424	51,180	44,548	48,858	55,919	49,767	45,484	61,606	54,563	61,664
Totals	104,526	102,585	88,866	97,775	111,563	100,008	101,650	123,240	108,953	122,582
Cargo tons—Up	83,453	78,547	67,611	69,547	85,165	70,681	76,613	85,429	81,557	78,758
Down	21,920	19,587	21,362	24,832	24,273	26,449	22,350	26,937	26,574	30,244
Totals	105,373	98,134	88,973	94,379	109,438	97,130	98,963	112,366	108,131	109,002
Season of navigation:										
First vessel passage	April 26	April 18	April 19	April 15	April 17	April 23	April 16	April 17	April 17	April 15
Last vessel passage	Nov. 24	Nov. 29	Nov. 22	Nov. 29	Dec. 2	Dec. 1	Nov. 30	Dec. 1	Nov. 29	Dec. 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, 1950-59

	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Vessel transits - Up	555	547	478	579	461	477	779	804	466	846
Down	562	555	488	576	465	475	779	806	462	821
Totals	1,117	1,102	966	1,155	926	952	1,558	1,610	928	1,667
Registered net tons - Up	169,618	160,689	116,622	142,492	111,346	117,699	166,152	209,889	116,191	201,781
Down	170,466	162,175	118,374	142,428	111,994	117,955	166,530	208,853	115,871	196,402
Totals	340,084	322,864	234,996	284,920	223,340	235,654	332,682	418,742	232,062	398,183
Cargo tons - Up	5,742	1,250	430	735	445	425	—	180	—	43
Down	288,862	275,921	200,721	242,297	190,365	206,100	283,500	356,460	189,980	327,600
Totals	294,604	277,171	201,151	243,032	190,810	206,525	283,500	356,640	189,980	327,643
Season of navigation:										
First vessel passage	April 22	April 24	May 1	April 15	April 30	April 26	April 25	April 17	April 23	May 2
Last vessel passage	Nov. 28	Nov. 28	Nov. 12	Nov. 20	Oct. 14	Nov. 1	Nov. 23	Nov. 30	Nov. 26	Nov. 19

TABLE 73. Traffic on the Ottawa River: Canals by Kind and Registry of Vessel, 1959

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	376	1	377	188,272	188,272	43	—	4	365	369	184,225	184,240	327,600	8
Pleasure craft	Canada	21	—	21	443	575	—	88	16	—	16	395	476	—	62
	United States	5	—	5	84	119	—	27	2	—	2	48	61	—	11
	United Kingdom	2	—	2	50	54	—	8	—	—	—	—	—	—	—
	Totals	28	—	28	577	748	—	123	18	—	18	443	537	—	73
All other types	Canada	441	—	441	12,932	27,720	—	3	434	—	434	11,734	28,006	—	10
	Grand totals	845	1	846	201,781	216,740	43	126	456	365	821	196,402	212,783	327,600	91

TABLE 74. Number and Tonnage of Vessels using the Ottawa River Canals by Origin and Destination, Registry and Rig, 1959

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	445	12,659	27,471	394	188,988	189,096	839	201,647	216,567
	United States	4	73	108	—	—	—	4	73	108
	United Kingdom	2	50	54	—	—	—	2	50	54
United States to Canada ..	United States	1	11	11	—	—	—	1	11	11
	Totals	452	12,793	27,644	394	188,988	189,096	846	201,781	216,740
Downbound:										
Canada to Canada	Canada	448	11,694	28,034	370	184,600	184,600	818	196,294	212,634
	Canada	1	60	88	—	—	—	1	60	88
	United States	1	17	30	—	—	—	1	17	30
United States to Canada ..	United States	1	31	31	—	—	—	1	31	31
	Totals	451	11,802	28,183	370	184,600	184,600	821	196,402	212,783
	Grand totals	903	24,595	55,827	764	373,588	373,696	1,667	398,183	429,523

TABLE 75. Commodities and Passengers Carried through the Ottawa River Canals by Country of Loading and Unloading, 1959

Commodity	Canada to Canada		Canada to United States		United States to Canada		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Gravel and sand	—	327,600	—	—	—	—	—	327,600
Manufactures and miscellaneous	43	—	—	—	—	—	43	—
Totals	43	327,600	—	—	—	—	43	327,600
Passengers	122	76	—	9	4	6	126	91

RIDEAU CANAL

TABLE 76. Location and Description

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

TABLE 77. Historical Summary 1950-59

	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Vessel transits — Up	63	88	97	130	94	72	64	149	32	32
Down	72	87	86	133	86	66	56	145	45	37
Totals	135	175	183	263	180	138	120	294	77	69
Registered net tons — Up	2,190	2,691	3,390	3,751	4,083	2,308	2,035	5,630	882	1,081
Down	2,266	2,669	3,129	3,770	3,654	2,180	2,006	5,587	1,515	1,262
Totals	4,456	5,360	6,519	7,521	7,737	4,488	4,041	11,217	2,397	2,343
Cargo tons — Up	373	315	382	849	357	248	205	154	37	53
Down	842	883	539	682	1,133	165	194	5,690	39	5
Totals	1,215	1,198	921	1,531	1,490	413	399	5,844	76	58
Season of navigation:										
First vessel passage	May 1	May 1	May 1	May 1	April 30	May 2	May 1	May 1	May 3	May 9
Last vessel passage	Nov. 15	Nov. 22	Nov. 25	Nov. 30	Nov. 18	Nov. 21	Nov. 20	Nov. 18	Oct. 21	Nov. 2

TABLE 78. Traffic on the Rideau Canal by Kind and Registry of Vessel, 1959

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	5	2	7	482	482	53	5	8	1	9	585	597	5	7
Pleasure craft	Canada	13	—	13	250	311	—	62	13	—	13	287	373	—	34
	United States	7	—	7	101	138	—	32	11	—	11	151	186	—	32
	Totals	20	—	20	351	449	—	94	24	—	24	438	559	—	66
All other types	Canada	5	—	5	248	379	—	5	4	—	4	239	360	—	3
	Totals	30	2	32	1,081	1,310	53	104	36	1	37	1,262	1,516	5	76

TABLE 79. Number and Tonnage of Vessels Using the Rideau Canal by Origin and Destination, Registry and Rig, 1959

Origin and destination	County of registry	Steam			Motor			Other			Total		
		Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Upbound:													
Canada to Canada.....	Canada	2	155	224	16	343	466	7	482	482	25	980	1,172
	United States	—	—	—	7	101	138	—	—	—	7	101	138
	Totals	2	155	224	23	444	604	7	482	482	32	1,081	1,310
Downbound:													
Canada to Canada.....	Canada	3	173	256	15	366	502	8	572	572	26	1,111	1,330
	United States	—	—	—	2	13	18	—	—	—	2	13	18
United States to Canada ..	United States	—	—	—	9	138	168	—	—	—	9	138	168
	Totals	3	173	256	26	517	688	8	572	572	37	1,262	1,516
	Grand totals	5	328	480	49	961	1,292	15	1,054	1,054	69	2,343	2,826

TABLE 80. Commodities and Passengers Carried through the Rideau Canal by Country of Loading and Unloading, 1959

Commodity	Canada to Canada		United States to Canada		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Lumber shingles and lath..... tons	50	5	—	—	50	5
Manufactures and miscellaneous..... "	3	—	—	—	3	—
Totals	53	5	—	—	53	5
Passengers ¹ No.	104	50	—	26	104	76

¹ Exclusive of 18,227 passengers on sightseeing pleasure boat cruises and 102,989 passengers carried in pleasure craft.

MURRAY CANAL

TABLE 81. Location and Description

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

TABLE 82. Historical Summary 1950 - 59

	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Vessel transits — Up.....	62	67	76	63	73	39	115	154	152	160
Down	4	7	18	21	31	14	75	78	100	94
Totals	66	74	94	84	104	53	190	232	252	254
Registered net tons — Up	32,575	33,877	32,567	30,775	34,803	19,464	24,675	38,434	34,009	31,126
Down	1,413	2,165	1,233	1,640	5,234	1,866	1,997	2,569	5,327	5,333
Totals	33,988	36,042	33,800	32,415	40,037	21,330	26,672	41,003	39,336	36,459
Cargo tons — Up.....	—	975	380	572	72	562	—	600	383	90
Down	2,969	2,358	—	104	200	105	—	190	—	—
Totals	2,969	3,333	380	676	272	667	—	790	383	90
Season of navigation:										
First vessel passage	April 16	April 16	April 26	April 16	April 10	April 8	May 26	April 13	April 22	April 17
Last vessel passage	Nov. 21	Nov. 20	Nov. 8	Dec. 9	Nov. 15	Nov. 17	Nov. 29	Dec. 8	Dec. 4	Nov. 27

TABLE 83. Traffic on the Murray Canal, by Kind and Registry of Vessel, 1959

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	66	2	68	28,064	51,112	90	—	21	—	21	3,872	4,455	—	—
United Kingdom	—	—	—	—	—	—	—	1	—	1	30	52	—	—
Totals	66	2	68	28,064	51,112	90	—	22	—	22	3,902	4,507	—	—
Pleasure craft:														
Canada	35	—	35	841	1,080	—	—	28	—	28	519	625	—	—
United States	19	—	19	467	1,857	—	—	22	—	22	539	799	—	—
United Kingdom	6	—	6	113	159	—	—	4	—	4	69	94	—	—
Totals	60	—	60	1,421	3,096	—	—	54	—	54	1,127	1,518	—	—
All other types:														
Canada	32	—	32	1,641	2,174	—	—	16	—	16	288	583	—	—
United Kingdom	—	—	—	—	—	—	—	2	—	2	16	20	—	—
Totals	32	—	32	1,641	2,174	—	—	18	—	18	304	603	—	—
Grand totals	158	2	160	31,126	56,382	90¹	—	94	—	94	5,333	6,628	—	—

¹ Iron and Steel s.s.s., Canada to Canada.

TABLE 84. Number and Tonnage of Vessels Using the Murray Canal by Origin and Destination, Registry and Rig 1959

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	—	—	—	59	1,920	2,755	34	5,388	5,418	93	7,308	8,173
	United States	—	—	—	3	122	1,436	2	30	36	5	152	1,472
	United Kingdom	—	—	—	3	58	84	—	—	—	3	58	84
Canada to United States	Canada	41	23,211	46,166	—	—	—	—	—	—	41	23,211	46,166
	United States	—	—	—	5	115	128	8	182	230	13	297	358
	United Kingdom	—	—	—	1	31	39	1	10	14	2	41	53
United States to Canada	Canada	—	—	—	1	27	27	—	—	—	1	27	27
United States to United States	United States	—	—	—	1	14	22	1	18	27	2	32	49
	Totals	41	23,211	46,166	73	2,287	4,491	46	5,628	5,725	160	31,126	56,382
Downbound:													
Canada to Canada	Canada	2	592	1,153	33	822	981	21	3,121	3,148	56	4,335	5,282
	United States	—	—	—	5	198	363	—	—	—	5	198	363
	United Kingdom	—	—	—	5	78	107	2	37	59	7	115	166
Canada to United States	Canada	—	—	—	2	28	28	—	—	—	2	28	28
	United States	—	—	—	1	17	22	1	25	29	2	42	51
United States to Canada	Canada	—	—	—	2	141	178	5	175	175	7	316	353
	United States	—	—	—	6	103	122	9	196	263	15	299	385
	Totals	2	592	1,153	54	1,187	1,801	38	3,554	3,674	94	5,333	6,628
	Grand totals	43	23,803	47,319	127	3,474	6,292	84	9,182	9,399	254	36,459	63,010

TRENT CANAL

TABLE 85. Location and Description

	From	To	Length of channel	Locks			
				Number	Minimum dimensions		
					Length	Width	Depth
			miles	feet			
Trent canal	Trenton	Peterborough Lock	88.74	18	175	33	8
	Peterborough Lock	Swift Rapids	135.71	24	134	33	6
	Swift Rapids	Port Severn	16.00	(Marine railway)	—	—	4
	Port Severn Lock	—	—	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 86. Historical Summary 1950 - 59

	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Vessel transits - Up	32	22	32	33	59	30	34	31	43	31
Down	44	31	40	38	71	36	47	41	45	37
Totals	76	53	72	71	130	66	81	72	88	68
Registered net tons - Up	577	392	427	498	771	455	544	480	631	499
Down	598	486	543	597	927	561	785	1,768	4,159	571
Totals	1,175	878	970	1,095	1,698	1,016	1,329	2,248	4,790	1,070
Cargo tons - Up	229	132	62	131	45	40	41	11	40	34
Down	373	222	73	108	125	62	248	63	35	49
Totals	602	354	135	239	170	102	289	74	75	83
Season of navigation:										
First vessel passage	April 24	May 23	May 12	May 13	May 5	May 11	May 25	May 16	May 12	May 15
Last vessel passage	Nov. 4	Nov. 13	Nov. 12	Nov. 9	Nov. 9	Nov. 30	Nov. 30	Oct. 31	Oct. 31	Oct. 22

TABLE 87. Traffic on the Trent Canal by Kind and Registry of Vessel, 1959

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	8	10	18	239	299	34	45	7	16	23	343	423	49	72
Pleasure craft	Canada	12	—	12	210	252	—	68	13	—	13	227	283	—	71
	United States	1	—	1	50	65	—	11	—	—	—	—	—	—	—
	Totals	13	—	13	260	317	—	79	13	—	13	227	283	—	71
All other types	Canada	—	—	—	—	—	—	—	1	—	1	1	1	—	—
	Grand totals	21	10	31	499	616	34	124	21	16	37	571	707	49	143

TABLE 88. Number and Tonnage of Vessels Using the Trent Canal by Origin and Destination, Registry and Rig, 1959

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	30	449	551	—	—	—	30	449	551
United States to Canada ..	United States	1	50	65	—	—	—	1	50	65
	Totals	31	499	616	—	—	—	31	499	616
Downbound:										
Canada to Canada	Canada	36	528	664	1	43	43	37	571	707
	Grand totals	67	1,027	1,280	1	43	43	68	1,070	1,323

TABLE 89. Commodities and Passengers Carried through the Trent Canal by Country of Loading and Unloading, 1959

Commodity	Canada to Canada		United States to Canada		Total	
	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Gasoline tons	17	25	—	2	17	27
Fuel, road and petroleum residual "	15	21	—	—	15	21
Lubricating oil and greases "	2	1	—	—	2	1
Totals	34	47	—	2	34	49
Passengers ¹ No.	113	141	11	2	124	143

¹ Excluding 210,889 passengers carried in small boats.

ST. ANDREW'S CANAL

TABLE 90. 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		feet		
		—	1	215	45	17

TABLE 91. Historical Summary 1950-59

	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Vessel transits—Up	207	346	332	240	198	175	179	181	178	200
Down	209	346	330	242	198	178	180	181	178	198
Totals	416	692	662	482	396	353	359	362	356	398
Registered net tons—Up	25,944	33,188	26,707	25,137	14,085	19,289	15,317	13,950	12,486	12,251
Down	26,179	33,196	26,393	25,086	13,998	19,079	15,321	14,102	12,413	11,811
Totals	52,123	66,384	53,100	50,223	28,083	38,368	30,638	28,052	24,899	24,062
Cargo tons—Up	10,531	10,421	11,620	13,127	2,429	5,679	5,610	2,852	2,642	2,035
Down	4,370	6,072	4,583	2,686	3,601	2,433	2,472	2,617	2,028	1,898
Totals	14,901	16,493	16,203	15,815	6,030	8,112	8,082	5,469	4,670	3,933
Season of navigation:										
First vessel passage	July 26	June 11	May 13	May 21	May 27	June 30	June 28	May 20	May 13	May 14
Last vessel passage	Nov. 2	Nov. 1	Nov. 2	Nov. 3	Nov. 3	Oct. 31	Nov. 2	Nov. 2	Oct. 31	Oct. 31

TABLE 92. Traffic on the St. Andrew's Canal by Kind and Registry of Vessel, 1959

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	19	130	149	11,217	15,750	2,035	17	8	137	145	10,735	15,193	1,898	—
Pleasure craft:														
Canada	49	—	49	919	1,087	—	228	51	—	51	961	1,140	—	235
All other types:														
Canada	2	—	2	115	444	—	—	2	—	2	115	444	—	—
Totals	70	130	200	12,251	17,281	2,035	245	61	137	198	11,811	16,777	1,898	235

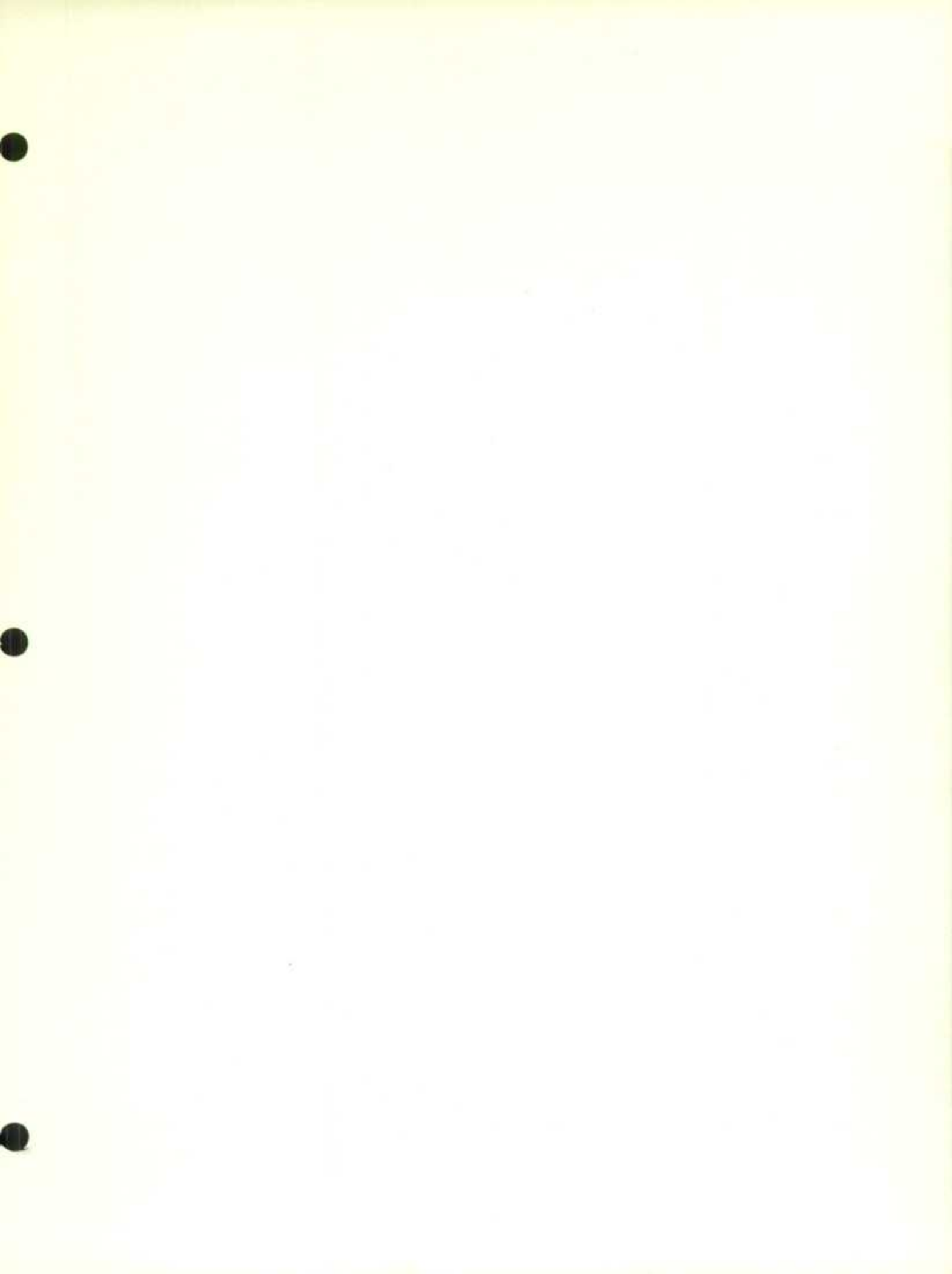
TABLE 93. Number and Tonnage of Vessels Using the St. Andrew's Canal by Origin and Destination, Registry and Rig, 1959

Origin and destination	Country of registry	Steam			Motor			Other			Total		
		Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons	Number of vessels	Registered net tons	Gross tons
Upbound:													
Canada to Canada	Canada	1	141	167	198	11,798	16,802	1	312	312	200	12,251	17,281
Downbound:													
Canada to Canada	Canada	1	41	76	197	11,770	16,701	—	—	—	198	11,811	16,777
	Grand totals	2	182	243	395	23,568	33,503	1	312	312	398	24,062	34,058

TABLE 94. Commodities and Passengers Carried through the St. Andrew's Canal by Country of Loading and Unloading, 1959

Commodity	Canada to Canada		Commodity	Canada to Canada	
	Upbound	Downbound		Upbound	Downbound
Products of agriculture	—	85	Food products	5	344
Sea food	1,792	14	Containers, empty	116	158
Products of mines	—	6	Manufactures and miscellaneous, n.o.s. ..	75	308
Lumber, shingles and lath	27	78	Totals	2,035	1,898
Products of forests, n.o.s.	10	10	Passengers ¹	245	235
Gasoline	10	895			

¹ Excluding 4,491 passengers carried in small boats.



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