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CANAL STATISTICS

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Published by Authority of
The Right Honourable C. D. Howe, Minister of Trade and Commerce

8504-506
7-3-55

Price 25 cents

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The amount of freight transported through the Canadian canals during 1954 totalled 30,070,701 short tons, a decrease of 3,302,363 tons or 9.9 per cent from the modern record of 33,373,064 tons which was established in 1953. All of the canals, except the Richelieu, reported lighter traffic than in the previous year, particularly for such commodities as barley, oats, rye, gasoline, petroleum oils, iron and steel, woodpulp, hard and soft coal, iron ore, and sand. Freight traffic at the Canadian Sault Ste. Marie canal declined to 2,607,968 tons from 3,389,409, a drop of 781,441 tons or 23.1 per cent; traffic at the Welland Ship canal decreased 10.4 per cent to 17,514,258 tons from 19,542,150; and shipments transported through the St. Lawrence system fell to 9,637,034 tons from 10,081,992 or 4.4 per cent. The number of vessel passages and the registered net tonnage were also lower than in 1953. Vessel passages numbered 25,292 as compared with 27,563 and the registered net tonnage totalled 29,442,595 tons as against 32,542,585, a decrease of 3,099,990 tons or 9.5 per cent. The number of passengers carried rose, however, to 116,231 from 112,082. Of the total number of vessel passages, 21,066 or 83.3 per cent were of Canadian or British registry, 3,145 flew the American flag and, the remainder 1,081 were registered in various other countries. As shown in Table 5, the Canadian and British registered vessels transported 26,464,781 tons or 88 per cent of the total freight locked through the ten systems. At the Canadian Sault, Canadian bottoms carried 2,492,740 tons or 95.6 per cent of the total while at the Welland the percentage was 83.3 and at the St. Lawrence 94.1. Domestic vessels transported all the freight carried through the seven smaller systems.

Table 2 shows the total traffic on Canadian canals and the United States locks at Sault Ste. Marie divided according to the different systems through which it past, thus excluding duplications. From this table, it is possible to follow the volume of traffic moving to and from Lake Superior ports and Montreal and beyond, which during 1954 amounted to 482,352 tons as compared with 746,310 in 1953 and 567,139 tons in 1952. Traffic using the combination of the Sault Ste. Marie and Welland canals declined to 5,684,275 tons from 5,771,757

while that through the Sault only dropped sharply to 79,248,722 tons from 121,971,103, a decline of 35 per cent.

From this analysis, it can be ascertained readily, through an examination of the up and down movements, how much freight tonnage terminated or originated within certain regions or broad areas and used one or more canals. The totals of course, do not include the considerable amount of traffic which moves between ports on the same lake or between Lakes Michigan, Huron and Erie where no canal passages are necessary.

The total amount of freight shipped through the combined U.S. and Canadian Sault Ste. Marie system aggregated 85,415,349 tons, a decrease of 43,073,821 tons or 33.5 per cent due mainly to a decline in demand for iron ore. The grand total of all canal traffic thus dropped to 112,878,082 tons from the 1953 total of 158,472,825 tons.

Table 10 shows the volume of freight carried up and down the St. Lawrence canal system from and to outside points by vessels of Canadian and foreign registry, other than the United States. During 1954, the upbound total amounted to 428,633 tons, a decrease of 129,751 tons or 23.2 per cent from the previous year. Of this total foreign carriers transported 267,054 tons or 62.3 per cent as compared with 72.4 per cent in 1953. The down or outward movement shows that 320 foreign vessels carried 341,448 tons or 89.9 per cent of the total of 379,648 tons as against 311 vessels with 317,166 tons or 90 per cent of the 1953 total of 352,415. Vessels of Norwegian, German, British, Swedish and Netherlands registry predominated.

In the year just ended, the season of navigation was considerably shorter than in the previous year for the Sault Ste. Marie, the St. Lawrence and four of the smaller canals. The Canadian Sault operated 246 days, sixteen less than in 1953 while the St. Lawrence, which opened April 13th and closed December 14th, was in operation a total of 243 days as compared with 259 days a year earlier. The Welland Ship canal operated 268 days in both years.

SOURCE AND TREATMENT OF DATA

The traffic statistics of the Canadian canals are collected through the local agents of the Department of Transport and compiled by the Transportation and Public Utilities Section of the Dominion Bureau of Statistics. Each vessel using a canal must make a report to the officer in charge of the canal, giving the details of the vessel tonnage, draught, cargo, etc. There are no tolls charged for the use of the canals and at Sault Ste. Marie, Canadian and United States vessels use the Canadian or United States locks as convenient. There are five locks at Sault Ste. Marie, one Canadian and four United States locks. 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.

The traffic statistics are complete for each canal and vessels and cargoes passing through two or more canals in going from port of clearance to port of destination are included in the statistics for each canal used. A large percentage of the upbound traffic through the St. Lawrence canals uses the Welland Ship and also the Sault Ste. Marie canal, mostly on the United States side, and a large percentage of the downbound traffic also uses the Welland Ship Canal while a smaller percentage passes through the locks at Sault Ste. Marie. Practically all the Ottawa River canals traffic uses the Lachine locks of the St. Lawrence canals and is included in the St. Lawrence way traffic. The totals for all Canadian canals consequently contain a large amount of duplication.

In Table 2 of this report duplications are eliminated except that freight which was unloaded and reloaded was not considered a duplication. Thus, grain transhipped at Georgian Bay and Lake Erie ports is not considered as duplication when passing down the Welland Ship Canal.

Previous to 1940, vessels of Canadian and British registry were shown under "Canadian" in the tables and all other vessels were shown under "United States". Only a very small percentage of these foreign vessels were other than United States vessels but they have been segregated and shown separately in tables of reports subsequent to 1939.

Also in classifying ports of departure and ports of destination of vessels all foreign ports have been

included under "United States". Here, also, traffic to foreign ports other than United States is but a very small percentage of the total.

As shown in Table 17, Canadian vessels carry by far the major portion of the total of all grain moving down the Welland Ship Canal.

The number of vessels and net registered tonnages using each canal are shown in Table 6 and the number of passengers and cargoes are shown in separate tables for each canal.

"Way" vessels and "way" cargoes are those from and to ports on the canals or using only a portion of any canal. Thus, a vessel from Montreal to Hull would be recorded as way on the St. Lawrence canals and "through" on the Ottawa River canals. Vessels and freight above Prescott and points on the Lachine Canal are classed as "through" for the St. Lawrence canals and all vessels and freight passing through the entire length of any canal are classed as "through".

The freight rates for Canadian grain shown in Tables 7, 8 and 9 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, the combined rates are shown separately. The trimming charges vary at different ports and are also affected by the overtime required to complete the job. Tables for Sault Ste. Marie, Welland Ship and St. Lawrence Canals show the complete list of commodities for which statistics are tabulated; for the other canals only such of these commodities in the list as were carried, are shown.

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".

Chart

Chart 1 presents the total freight carried through all Canadian canals compared with the amount shipped through the St. Lawrence Canals over the period 1931 to 1954.

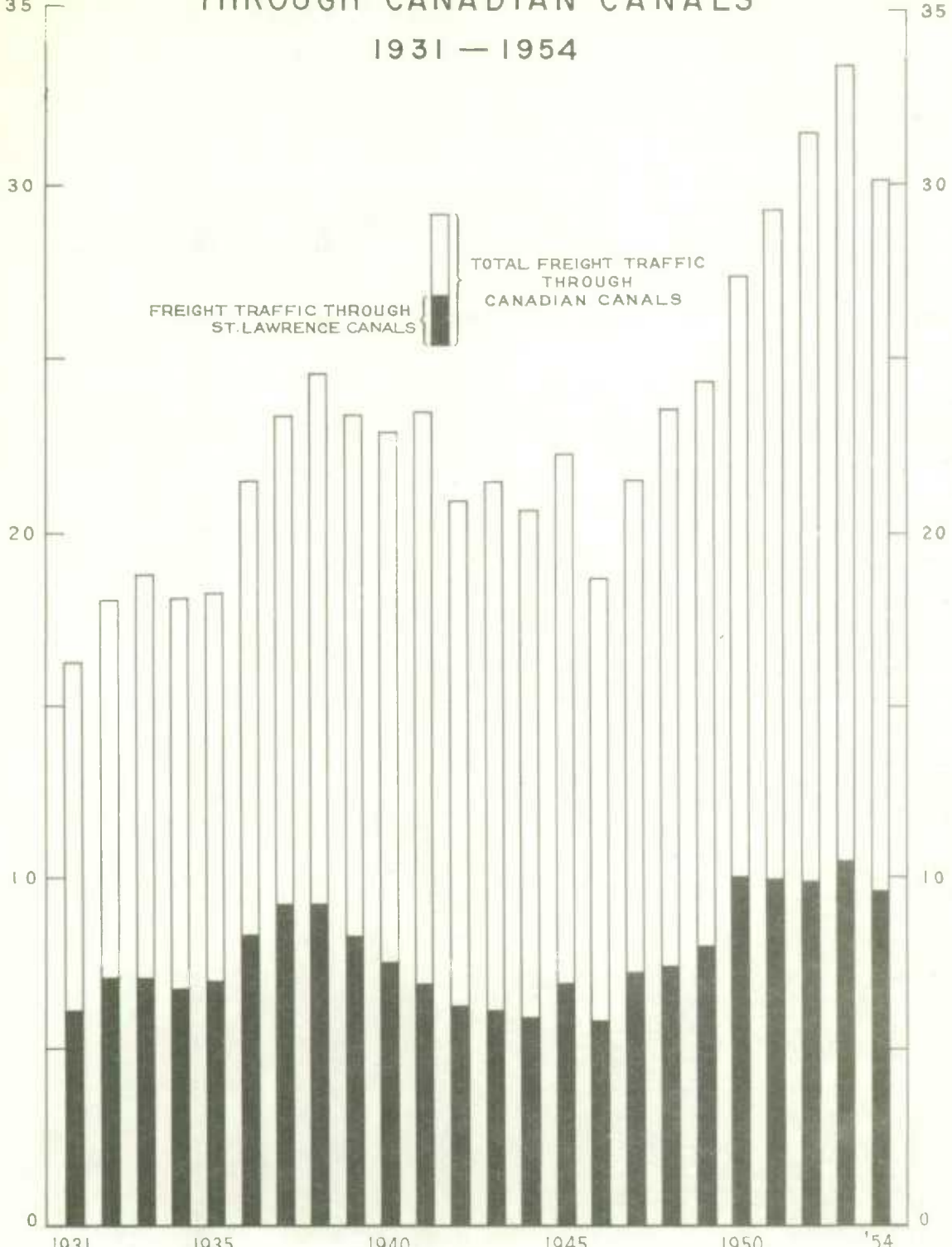
Total traffic on all canals rose from 16.2 million tons in 1931 to a record 33.4 million tons in 1953, an

increase of 106.2 per cent. Shipments through the St. Lawrence canals generally follow the trend for all canals and weighed over 10 million tons in 1953. Freight shipped through the St. Lawrence represented 37.0 per cent of total canal freight in 1931, 28.4 per cent in 1943 and 31.9 per cent in 1954.

TOTAL FREIGHT TRAFFIC THROUGH CANADIAN CANALS 1931 — 1954

MILLION TONS
35

MILLION TONS
35



1931

1935

1940

1945

1950

'54

WATER TRANSPORT

TABLE 1. Total Traffic¹ Through the Canadian Canals During 1954

No.		Sault Ste. Marie	Welland Ship	St. Lawrence River	Ottawa River	Rideau
1	Canadian vessels	3,130	6,220	8,759	926	162
2	United States vessels	1,199	1,736	152	--	18
3	Other foreign vessels	20	523	538	--	--
4	Total vessels	4,349	8,479	9,449	926	180
5	Passengers	115,014	40	4	--	778
Tons						
6	Canadian vessels—steam	3,425,678	13,547,601	7,415,526	16,388	3,841
7	Canadian vessels—sail ²	212,798	22,586	253,124	206,952	3,587
8	United States vessels—steam	439,599	2,199,611	17,375	--	309
9	United States vessels—sail ²	1,936	543,105	42,795	--	--
10	Other foreign vessels	13,900	434,790	445,088	--	--
11	Total vessels	4,093,911	16,747,693	8,173,908	223,340	7,737
Agricultural products:						
12	Barley	416,494	1,199,617	963,343	--	--
13	Corn	22,993	313,716	280,317	--	--
14	Oats	212,595	283,306	189,019	--	--
15	Rye	16,421	48,384	44,275	--	--
16	Flaxseed	30,439	363,444	262,347	--	--
17	Wheat	217,596	2,857,817	2,372,468	--	--
18	Other grains	--	241,027	28,503	--	--
19	Flour	96,918	22,620	18,711	--	--
20	Hay and straw	--	--	--	--	--
21	Other mill products	184,285	9,440	15,252	--	--
22	Fruit and vegetables	--	--	1,382	--	--
23	Potatoes	--	--	876	--	--
24	Total	1,197,741	5,339,371	4,176,493	--	--
Animal products:						
25	Fish	138	2,864	2,884	--	--
26	Dressed meats	--	--	--	--	--
27	Other packing-house products	--	--	--	--	--
28	All other animal products	--	--	725	--	--
29	Total	138	2,864	3,609	--	--
Manufactures and miscellaneous:						
30	Gasoline	157,637	370,174	122,736	--	1
31	Petroleum and other oils	152,406	1,925,542	1,001,115	--	1
32	Agricultural implements	--	--	--	--	--
33	Cement, brick and plaster	--	79,020	16,403	--	60
34	Iron, pig and bloom	11,868	16,671	--	--	--
35	Iron and steel, other	89,231	153,045	47,949	--	23
36	Sugar	30	52,102	7,542	--	--
37	Salt	13,082	92,826	90,798	--	--
38	Beverages	--	--	1	--	--
39	Autos and parts	5,927	2,272	1,418	--	--
40	Paper	113,005	422,188	229,218	215	--
41	Wood pulp	82,440	55,448	43,821	--	--
42	Total	625,626	3,169,288	1,561,001	215	85
Forest products:						
43	Pulpwood	175,025	516,001	493,028	--	--
44	Logs, posts, poles, piling	663	--	--	--	25
45	Firewood	--	--	--	--	--
46	Lumber, mill, cooperage stock	--	--	32,284	--	49
47	Other forest products	--	--	--	--	--
48	Total	175,688	516,001	525,312	--	74
Mine products:						
49	Hard coal	--	4,344	4,965	--	--
50	Soft coal	202,143	4,984,168	1,469,129	445	50
51	Coke	--	9,579	8,150	--	--
52	Copper ore	--	--	--	--	--
53	Iron ore	--	2,298,853	297,396	--	--
54	Other ore	--	154,880	35,840	--	--
55	Sand, gravel and stone	61,870	166,622	209,981	190,100	1,253
56	Total	264,013	7,618,446	2,025,461	190,545	1,303
57	All other freight	344,762	868,288	1,345,158	50	28
58	Grand total	2,607,968	17,514,258	9,637,034	190,810	1,490

1. Net registered tons of vessels and tons (2,000 lbs.) of cargoes.
2. Includes unrigged vessels.

CANAL STATISTICS

TABLE 1. Total Traffic¹ Through the Canadian Canals During 1954

Richelieu River	Trent	Murray	St. Andrew's	St. Peter's	Total	Compared with 1953		No.
						Increase	Decrease	
687	129	104	396	553	21,066	-	2,312	1
22	1	-	-	17	3,145	161	-	2
-	-	-	-	-	1,081	-	120	3
709	130	104	396	570	25,292	-	2,271	4
136	-	-	230	29	116,231	4,149	-	5
Tons								
64,210	1,643	33,131	28,083	11,508	24,547,609	-	2,294,449	6
46,777	40	6,906	-	2,883	755,653	-	247,428	7
578	15	-	-	234	2,657,719	-	519,155	8
-	-	-	-	-	587,836	-	12,861	9
-	-	-	-	-	893,778	-	26,097	10
111,563	1,698	40,037	28,083	14,625	29,442,595	-	3,099,990	11
-	-	-	-	-	2,579,454	-	1,224,644	12
-	-	-	-	-	617,026	3,312	-	13
-	-	-	2	-	684,922	-	122,330	14
-	-	-	-	-	109,080	-	116,487	15
-	-	-	-	-	656,230	308,084	-	16
-	-	-	-	-	5,447,881	38,836	-	17
-	-	-	-	-	269,530	74,852	-	18
-	-	-	25	-	138,274	2,817	-	19
-	-	-	32	-	32	-	252	20
-	-	-	-	-	208,977	-	30,925	21
1,307	-	-	35	71	2,795	1,745	-	22
-	-	-	-	688	1,564	116	-	23
1,307	-	-	94	759	10,715,765	-	1,064,876	24
-	-	-	2,120	1,413	9,419	6,602	-	25
-	-	-	-	-	-	-	10	26
-	-	-	-	-	-	-	3,758	27
-	-	-	-	-	725	522	-	28
-	-	-	2,120	1,413	10,144	3,356	-	29
-	52	-	1,216	52	651,868	-	75,644	30
-	23	-	12	500	3,079,599	-	131,951	31
-	-	-	-	-	-	-	3,735	32
-	50	-	197	-	95,730	-	3,052	33
-	-	-	-	-	28,539	-	52,250	34
-	-	-	312	55	290,615	-	66,145	35
-	-	-	-	-	59,674	12,751	-	36
-	-	-	-	-	196,706	20,927	-	37
-	-	-	144	-	145	-	143	38
28,565	-	-	92	-	9,709	-	6,333	39
-	-	-	-	-	793,191	-	15,797	40
-	-	-	-	-	181,709	-	58,395	41
28,565	123	-	1,973	607	5,387,485	-	379,767	42
-	-	-	-	-	1,184,054	6,135	-	43
-	-	-	-	-	688	-	92	44
-	-	-	-	7	7	-	644	45
-	10	-	70	-	32,413	-	13,380	46
-	-	-	-	-	-	-	12	47
-	10	-	70	7	1,217,162	-	7,993	48
3,611	-	-	-	-	12,920	-	28,429	49
-	-	-	-	116	6,656,051	-	1,134,119	50
-	-	-	-	-	17,729	68	-	51
-	-	-	-	-	-	-	1,600	52
-	-	-	-	-	2,596,249	-	505,371	53
-	-	-	-	-	190,720	-	16,017	54
-	-	-	-	40	629,866	-	182,209	55
3,611	-	-	-	156	10,103,535	-	1,867,677	56
75,955	35	272	1,773	289	2,636,610	14,594	-	57
109,438	170	272	6,030	3,231	30,070,701	-	3,302,363	58

TABLE 2. Canadian Canal Traffic, 1954

(Includes traffic through the United States locks at Sault Ste. Marie)
Duplications excluded¹

Canal	Up	Down	Total 1954	Total 1953
Ottawa only	-	-	-	200
Richelieu only	84,950	14,267	99,217	78,331
St. Lawrence and Ottawa	445	190,150	190,595	241,785
St. Lawrence, Ottawa & Richelieu	- ²	215 ³	215	1,047
St. Lawrence & Richelieu	10,006 ²	- ³	10,006	15,001
St. Lawrence only	1,714,532	3,311,716	5,026,248	4,493,108
St. Lawrence & Welland Ship	1,136,745	2,790,873	3,927,618	4,584,741
St. Lawrence, Welland Ship & Sault Ste. Marie	111,978	370,374	482,352	746,310
Welland Ship only	913,351	6,506,662	7,420,013	8,439,342
Welland Ship & Sault Ste. Marie	233,717	5,450,558	5,684,275	5,771,757
Sault Ste. Marie only (Canadian & U.S.) ⁴	9,853,721	69,395,001	79,248,722	121,971,103
Rideau River	357	1,133	1,490	1,531
Trent	45	125	170	239
Murray	72	200	272	676
St. Andrew's	2,429	3,601	6,030	15,815
St. Peter's	1,594	1,637	3,231	3,841
Total	14,063,942	88,036,512	102,100,454	146,364,827

1. Duplications 482,567 tons.

2. Down the Richelieu River Canal.

3. Up the Richelieu River Canal.

4. Through both Canadian and United States locks at 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 3. Canals of Canada

Name	Location		Length in miles	Number	Locks		
	From	To			Minimum dimensions in feet		
					Length	Width	Depth
Sault Ste. Marie	St. Mary's Rapids	Sault Ste. Marie	1.38	1	900	60	18.25
Welland Ship	Port Weller	Port Colborne	27.60	8	859	80	30 ³
St. Lawrence River:							
Lachine	Montreal	Lachine	8.74	5	270	45	14 ¹
Soulanges	Cascades Point	Coteau Landing	14.67	5	280	45	15 ¹
Cornwall	Cornwall	Dickinsons Landing	11.00	6	270	43.67	14 ¹
Farran's Point	Farran's Point	Rapide de Farran's Pt.	1.28	1	800	50	16 ¹
Rapide Plat	Rapide Plat	Morrisburg	3.89	2	270	45	14 ¹
Gallops	Iroquois	Cardinal	7.36	3	270	45	14 ¹
Richelieu River:							
St. Ours	St. Ours, Que.	St. Ours, Que.	0.12	1	339	45	12 ²
Chambly	Chambly	St. John's, Que.	11.76	9	120.5	23.25	6.5
St. Peter's	St. Peter's Bay	Bras d'Or Lakes Cape Breton, N.S.	0.50	1	300	48	18 ⁴
Murray	Isthmus of Murray	Bay of Quinte	5.15	None	-	-	11 ⁵
Ottawa River:							
St. Anne	Junction of St. Lawrence and Ottawa River	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	9.5
Rideau	Ottawa	Kingston	126.25	47	134	33	5
	Rideau Lake to	Perth (Tay Branch)	6.50	2	134	33	5
Trent	Trenton	Peterborough Lock	88.74	18	175	33	6
	Peterborough Lock	Swift Rapids	135.71	24	134	33	6
	Swift Rapids	Port Severn	16.00	(Marine Ry.)	-	-	4
	Port Severn Lock		-	1	100	25	6
	Sturgeon Lake	Lindsay (Scugog Branch)	8.35	1	142	33	6
	Lindsay	Port Perry (Scugog Branch)	26.65	None	-	-	4.5
St. Andrew's	Red River, fifteen miles north of Winnipeg		-	1	215	45	17

1. Navigable depths occasionally are less due to extreme low water levels.

2. Least depth in channels, 7 ft.

3. Least depth in channels, 25 ft.

4. Depth of canal prism is 17 ft.

5. With Lake Ontario at elevation 244 ft.

TABLE 4. Season of Navigation, 1954

Canals	First vessel passage	Last vessel passage	Number of days used
Sault Ste. Marie	April 10	December 11	246
Welland Ship	March 25	December 17	268
St. Lawrence	April 13	December 11	243
Richelieu River	April 17	December 2	230
St. Peter's	April 10	January 10	276
Murray	April 10	November 15	220
Ottawa River	April 30	October 14	168
Rideau	April 30	November 18	203
Trent	May 5	November 9	189
St. Andrew's	May 27	November 3	161

TABLE 5. Total Freight Using Canadian Canals During 1954

Canal	Total up	Total down	Grand total	Transported in		Transported in		
				Canadian vessels		Foreign vessels		
	Tons	Tons	Tons	Tons	P.C. of total	Tons	P.C. of total	
Sault Ste. Marie	845,990	1,761,978	2,607,968	2,492,740	95.6	115,228	4.4	
Welland Ship	2,395,791	15,118,467	17,514,258	14,595,807	83.3	2,918,451	16.7	
St. Lawrence	2,973,706	6,663,328	9,637,034	9,064,793	94.1	572,241	5.9	
Ottawa River	445	190,385	190,810	190,810	100.0	—	—	
Rideau	357	1,133	1,490	1,490	100.0	—	—	
Richelieu River	85,185	24,273	109,438	109,438	100.0	—	—	
Trent	45	125	170	170	100.0	—	—	
Murray	72	200	272	272	100.0	—	—	
St. Andrew's	2,429	3,601	6,030	6,030	100.0	—	—	
St. Peter's	1,594	1,637	3,231	3,231	100.0	—	—	
Total Canadian canals	6,305,594	23,765,107	30,070,701	26,464,781	88.0	3,605,920	12.0	
Sault Ste. Marie — Canadian and United States ¹	10,199,886	75,217,772	85,417,658	14,477,497	16.9	70,940,161	83.1	
	From Canadian to Canadian ports		From Canadian to United States ports		From United States to United States ports		From United States to Canadian ports	
	Up	Down	Up	Down	Up	Down	Up	Down
	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons
Sault Ste. Marie	538,024	1,166,558	3,891	518,583	84,556	22,090	219,519	54,747
Welland Ship	951,282	5,290,387	820,584	82,692	601,792	931,892	22,133	8,813,496
St. Lawrence	1,930,395	4,765,171	781,074	96,458	161,493	237,751	100,744	1,563,948
Ottawa River	445	190,150	—	215	—	—	—	—
Rideau	357	1,133	—	—	—	—	—	—
Richelieu River	56,600	4,841	28,565	434	—	—	—	18,998
Trent	45	125	—	—	—	—	—	—
Murray	72	200	—	—	—	—	—	—
St. Andrew's	2,429	3,601	—	—	—	—	—	—
St. Peter's	1,594	1,637	—	—	—	—	—	—
Total Canadian canals	3,451,243	11,423,803	1,634,114	698,382	847,841	1,191,733	342,396	10,451,139
Sault Ste. Marie — Canadian and United States ¹	578,172	6,894,111	1,780	4,003,643	7,165,307	61,514,391	2,454,627	2,805,627

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

TABLE 6. Vessels Using Canadian Canals, 1954

No.		Canada to Canada		Canada to United States		U.S. to U.S.		
		Up	Down	Up	Down	Up	Down	
Number and net registered tons								
Sault Ste. Marie Canal:								
1	Canadian vessels steam	No.	1,234	1,121	23	212	3	2
2	" " sail	"	89	75	—	25	—	—
3	U.S. " steam	"	—	—	1	14	572	582
4	" " sail	"	—	—	—	—	4	2
5	Other foreign vessels	"	—	3	—	3	4	1
6	Total	"	1,323	1,199	24	254	583	587
7	Canadian vessels steam	Tons	1,434,115	967,488	40,675	370,040	3,496	2,893
8	" " sail	"	61,181	37,905	—	62,912	—	—
9	U.S. " steam	"	—	—	2,847	16,850	231,892	161,116
10	" " sail	"	—	—	—	—	831	901
11	Other foreign vessels	"	—	2,484	—	1,645	2,063	504
12	Total	"	1,495,296	1,027,877	43,522	451,417	238,284	165,414
Welland ship canal through and way:								
13	Canadian vessels steam	No.	1,412	1,665	1,642	48	16	12
14	" " sail	"	29	42	5	—	1	2
15	U.S. " steam	"	1	1	250	9	385	367
16	" " sail	"	—	2	37	6	212	197
17	Other foreign vessels	"	3	5	8	19	245	216
18	Total	"	1,445	1,715	1,942	82	861	794
19	Canadian vessels steam	Tons	2,442,179	2,924,495	4,329,367	55,971	19,056	11,753
20	" " sail	"	4,998	9,540	2,688	—	1,278	2,551
21	U.S. " steam	"	5,082	91	814,031	6,107	294,549	287,328
22	" " sail	"	—	2,207	31,503	7,496	236,793	232,742
23	Other foreign vessels	"	2,946	5,342	6,390	15,559	203,108	180,391
24	Total	"	2,455,205	2,941,675	5,183,979	85,133	754,784	714,765
Welland ship canal through:								
25	Canadian vessels steam	No.	1,029	1,353	1,432	17	18	12
26	" " sail	"	11	17	3	—	1	2
27	U.S. " steam	"	—	—	218	6	385	367
28	" " sail	"	—	1	25	4	212	197
29	Other foreign vessels	"	—	3	5	16	245	216
30	Total	"	1,040	1,374	1,683	43	861	794
31	Canadian vessels steam	Tons	1,939,101	2,476,613	3,918,075	16,216	19,056	11,753
32	" " sail	"	1,738	3,282	1,358	—	1,278	2,551
33	U.S. " steam	"	—	—	718,234	417	294,549	287,328
34	" " sail	"	—	676	23,235	5,087	236,793	232,742
35	Other foreign vessels	"	—	2,935	3,913	12,638	203,108	180,391
36	Total	"	1,940,839	2,483,506	4,664,815	34,358	754,784	714,765
Welland ship canal way:								
37	Canadian vessels steam	No.	383	312	210	31	—	—
38	" " sail	"	18	25	2	—	—	—
39	U.S. " steam	"	1	1	32	3	—	—
40	" " sail	"	—	1	12	2	—	—
41	Other foreign vessels	"	3	2	3	3	—	—
42	Total	"	405	341	259	39	—	—
43	Canadian vessels steam	Tons	503,078	447,882	411,292	39,755	—	—
44	" " sail	"	3,260	6,258	1,330	—	—	—
45	U.S. " steam	"	5,082	91	95,797	5,690	—	—
46	" " sail	"	—	1,531	8,268	2,409	—	—
47	Other foreign vessels	"	2,946	2,407	2,477	2,921	—	—
48	Total	"	514,366	458,169	519,164	50,775	—	—

CANAL STATISTICS

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TABLE 6. Vessels Using Canadian Canals, 1954

United States to Canada		Total		Grand total		Compared with 1953		No.
Up	Down	Up	Down	1954	1953	Increase	Decrease	
Number and net registered tons								
306	22	1,566	1,357	2,923	3,686	—	763	1
18	—	107	100	207	295	—	88	2
18	—	591	596	1,187	1,084	103	—	3
6	—	10	2	12	10	2	—	4
7	2	11	9	20	72	—	52	5
355	24	2,285	2,064	4,349	5,147	—	798	6
555,180	31,819	2,033,468	1,392,210	3,425,678	4,360,373	—	934,695	7
50,800	—	111,981	100,817	212,798	307,932	—	95,134	8
26,894	—	261,633	177,966	439,599	944,440	—	504,841	9
204	—	1,035	901	1,936	3,944	—	2,008	10
6,023	1,181	8,086	5,814	13,900	64,758	—	50,858	11
639,101	33,000	2,416,203	1,677,708	4,093,911	5,681,447	—	1,587,536	12
33	1,310	3,105	3,035	6,140	6,922	—	782	13
—	1	35	45	80	138	—	58	14
7	228	643	605	1,248	1,210	38	—	15
8	26	257	231	488	551	—	63	16
6	21	262	261	523	551	—	28	17
54	1,586	4,302	4,177	8,479	9,372	—	893	18
37,437	3,727,343	6,828,039	6,719,562	13,547,601	14,708,393	—	1,160,792	19
—	1,531	8,964	13,622	22,586	89,568	—	66,982	20
651	791,772	1,114,313	1,085,298	2,199,611	2,218,829	—	19,218	21
10,569	21,795	278,865	264,240	543,105	582,665	—	39,560	22
4,743	16,311	217,187	217,603	434,790	420,309	14,481	—	23
53,400	4,558,752	8,447,368	8,300,325	16,747,693	18,019,764	—	1,272,071	24
31	1,192	2,510	2,574	5,084	5,774	—	690	25
—	1	15	20	35	41	—	6	26
7	193	610	566	1,176	1,129	47	—	27
8	12	245	214	459	505	—	46	28
3	20	253	255	508	543	—	35	29
49	1,418	3,633	3,629	7,262	7,992	—	730	30
33,787	3,522,784	5,910,019	6,027,366	11,937,385	13,136,779	—	1,199,394	31
—	1,531	4,374	7,364	11,738	35,980	—	24,242	32
651	705,554	1,013,434	993,299	2,006,733	2,038,610	—	31,877	33
10,569	11,963	270,597	250,468	521,065	551,554	—	30,489	34
2,145	15,221	209,166	211,185	420,351	414,267	6,084	—	35
47,152	4,257,053	7,407,590	7,489,682	14,897,272	16,177,190	—	1,279,918	36
2	118	595	461	1,056	1,148	—	92	37
—	—	20	25	45	97	—	52	38
—	35	33	39	72	81	—	9	39
—	14	12	17	29	46	—	17	40
3	1	9	6	15	8	7	—	41
5	168	669	548	1,217	1,380	—	163	42
3,650	204,559	918,020	692,196	1,610,216	1,571,614	38,602	—	43
—	—	4,590	6,258	10,848	53,588	—	42,740	44
—	86,218	100,879	91,999	192,878	180,219	12,659	—	45
—	9,832	8,268	13,772	22,040	31,111	—	9,071	46
2,598	1,090	8,021	6,418	14,439	6,042	8,397	—	47
6,248	301,699	1,039,778	810,643	1,850,421	1,842,574	7,847	—	48

TABLE 6. Vessels Using Canadian Canals, 1954 - Continued

No.		Canada to Canada		Canada to United States		U.S. to U.S.		
		Up	Down	Up	Down	Up	Down	
		Number and net registered tons						
	St. Lawrence river canals through and way:							
1	Canadian vessels steam	No.	3, 112	3, 381	837	22	17	-
2	" " sail	"	305	301	-	-	-	-
3	U.S. " steam	"	6	5	11	3	30	32
4	" " sail	"	-	-	1	-	18	18
5	Other foreign vessels	"	2	6	4	33	245	222
6	Total	"	3, 425	3, 693	853	58	310	272
7	Canadian vessels steam	Tons	2, 677, 850	2, 929, 283	957, 705	8, 771	19, 550	-
8	" " sail	"	129, 953	123, 171	-	-	-	-
9	U.S. " steam	"	123	97	1, 301	75	7, 478	7, 139
10	" " sail	"	-	-	37	-	19, 873	20, 136
11	Other foreign vessels	"	1, 171	4, 843	3, 514	26, 904	203, 289	185, 255
12	Total	"	2, 809, 097	3, 057, 394	962, 557	35, 750	250, 190	212, 530
	St. Lawrence river canals through:							
13	Canadian vessels steam	No.	2, 095	2, 312	756	13	1	-
14	" " sail	"	16	15	-	-	-	-
15	U.S. " steam	"	1	1	4	1	9	10
16	" " sail	"	-	-	-	-	-	-
17	Other foreign vessels	"	1	6	3	33	245	222
18	Total	"	2, 113	2, 334	763	47	255	232
19	Canadian vessels steam	Tons	2, 408, 664	2, 655, 349	857, 728	7, 700	633	-
20	" " sail	"	9, 778	3, 474	-	-	-	-
21	U.S. " steam	"	18	19	954	27	4, 722	4, 399
22	" " sail	"	-	-	-	-	-	-
23	Other foreign vessels	"	399	4, 843	2, 468	26, 904	203, 289	185, 255
24	Total	"	2, 418, 859	2, 663, 685	861, 150	34, 631	208, 644	189, 654
	St. Lawrence river canals way:							
25	Canadian vessels steam	No.	1, 017	1, 069	81	9	16	-
26	" " sail	"	289	286	-	-	-	-
27	U.S. " steam	"	5	4	7	2	21	22
28	" " sail	"	-	-	1	-	18	18
29	Other foreign vessels	"	1	-	1	-	-	-
30	Total	"	1, 312	1, 359	90	11	55	40
31	Canadian vessels steam	Tons	269, 186	273, 934	99, 977	1, 071	18, 917	-
32	" " sail	"	120, 175	119, 697	-	-	-	-
33	U.S. " steam	"	105	78	347	48	2, 756	2, 740
34	" " sail	"	-	-	37	-	19, 873	20, 136
35	Other foreign vessels	"	772	-	1, 046	-	-	-
36	Total	"	390, 238	393, 709	101, 407	1, 119	41, 546	22, 876
	Richelieu river canal:							
37	Canadian vessels steam	No.	104	102	147	4	-	-
38	" " sail	"	95	95	-	-	-	-
39	U.S. " steam	"	-	2	10	-	-	-
40	Total	"	199	199	157	4	-	-
41	Canadian vessels steam	Tons	5, 375	5, 063	26, 627	316	-	-
42	" " sail	"	23, 412	23, 365	-	-	-	-
43	U.S. " steam	"	-	72	230	-	-	-
44	Total	"	28, 787	28, 500	26, 857	316	-	-

TABLE 6. Vessels Using Canadian Canals, 1954 - Continued

United States to Canada		Total		Grand total		Compared with 1953		No.
Up	Down	Up	Down	1954	1953	Increase	Decrease	
Number and net registered tons								
101	683	4,067	4,086	8,153	8,505	-	352	1
-	-	305	301	606	682	-	76	2
4	15	51	55	106	52	54	-	3
-	9	19	27	46	12	34	-	4
19	7	270	268	538	578	-	40	5
124	714	4,712	4,737	9,449	9,829	-	380	6
48,739	773,628	3,703,844	3,711,682	7,415,526	7,616,605	-	201,079	7
-	-	129,953	123,171	253,124	274,025	-	20,901	8
70	1,092	8,972	8,403	17,375	12,551	4,824	-	9
-	2,749	19,910	22,885	42,795	14,088	28,707	-	10
15,374	4,738	223,348	221,740	445,088	434,808	10,280	-	11
64,183	782,207	4,086,027	4,087,881	8,173,908	8,352,077	-	178,169	12
15	592	2,867	2,917	5,784	5,962	-	178	13
-	-	16	15	31	15	16	-	14
-	7	14	19	33	26	7	-	15
-	1	-	1	1	-	1	-	16
16	7	265	268	533	571	-	38	17
31	607	3,162	3,220	6,382	6,574	-	192	18
11,049	655,860	3,278,074	3,318,909	6,596,983	6,709,488	-	112,505	19
-	-	9,778	3,474	13,252	5,400	7,852	-	20
-	775	5,694	5,220	10,914	8,763	2,151	-	21
-	275	-	275	275	-	275	-	22
13,231	4,738	219,387	221,740	441,127	429,399	11,728	-	23
24,280	661,648	3,512,933	3,549,618	7,062,551	7,153,050	-	90,499	24
86	91	1,200	1,169	2,369	2,543	-	174	25
-	-	289	288	575	667	-	92	26
4	8	37	36	73	26	47	-	27
-	8	19	26	45	12	33	-	28
3	-	5	-	5	7	-	2	29
93	107	1,550	1,517	3,067	3,255	-	188	30
37,690	117,768	425,770	392,773	818,543	907,117	-	88,574	31
-	-	120,175	119,697	239,872	268,625	-	28,753	32
70	317	3,278	3,183	6,461	3,788	2,673	-	33
-	2,474	19,910	22,610	42,520	14,088	28,432	-	34
2,143	-	3,961	-	3,961	5,409	-	1,448	35
39,903	120,559	573,094	538,263	1,111,357	1,199,027	-	87,670	36
-	140	251	246	497	439	58	-	37
-	-	95	95	190	198	-	8	38
-	10	10	12	22	18	4	-	39
-	150	356	353	709	655	54	-	40
-	26,829	32,002	32,208	64,210	55,131	9,079	-	41
-	-	23,412	23,365	46,777	42,347	4,430	-	42
-	274	230	346	576	297	279	-	43
-	27,103	55,644	55,919	111,563	97,775	13,788	-	44

TABLE 6. Vessels Using Canadian Canals, 1954 - Concluded

No.		Canada to Canada		Canada to United States		U.S. to U.S.		
		Up	Down	Up	Down	Up	Down	
		Number and net registered tons						
	Ottawa River Canals							
1	Canadian vessels steam..... No.	234	233	-	1	-	-	
2	" " sail..... "	227	231	-	-	-	-	
3	U.S. " steam..... "	-	-	-	-	-	-	
4	Total "	461	464	-	1	-	-	
5	Canadian vessels steam..... Tons	8,203	7,991	-	194	-	-	
6	" " sail..... "	103,143	103,809	-	-	-	-	
7	U.S. " steam..... "	-	-	-	-	-	-	
8	Total "	111,346	111,800	-	194	-	-	
	St. Peter's canal:							
9	Canadian vessels steam..... No.	258	276	-	3	-	-	
10	" " sail..... "	8	8	-	-	-	-	
11	U.S. " steam..... "	4	5	-	4	-	-	
12	Total "	270	289	-	7	-	-	
13	Canadian vessels steam..... Tons	5,126	6,354	-	28	-	-	
14	" " sail..... "	2,217	666	-	-	-	-	
15	U.S. " steam..... "	32	51	-	93	-	-	
16	Total "	7,375	7,071	-	121	-	-	
	Murray canal:							
17	Canadian vessels steam..... No.	13	17	53	-	-	-	
18	" " sail..... "	7	14	-	-	-	-	
19	Total "	20	31	53	-	-	-	
20	Canadian vessels steam..... Tons	779	775	31,577	-	-	-	
21	" " sail..... "	2,447	4,459	-	-	-	-	
22	Total "	3,226	5,234	31,577	-	-	-	
	St. Andrew's canal:							
23	Canadian vessels steam..... No.	198	198	-	-	-	-	
24	" " sail..... "	-	-	-	-	-	-	
25	Total "	198	198	-	-	-	-	
26	Canadian vessels steam..... Tons	14,085	13,998	-	-	-	-	
27	" " sail..... "	-	-	-	-	-	-	
28	Total "	14,085	13,998	-	-	-	-	
	Rideau canal:							
29	Canadian vessels steam..... No.	59	54	-	-	-	-	
30	" " sail..... "	26	23	-	-	-	-	
31	U.S. " steam..... "	9	9	-	-	-	-	
32	Total "	94	86	-	-	-	-	
33	Canadian vessels steam..... Tons	2,020	1,821	-	-	-	-	
34	" " sail..... "	1,937	1,650	-	-	-	-	
35	U.S. " steam..... "	126	183	-	-	-	-	
36	Total "	4,083	3,654	-	-	-	-	
	Trent canal:							
37	Canadian vessels steam..... No.	58	69	-	-	-	-	
38	" " sail..... "	1	1	-	-	-	-	
39	U.S. " steam..... "	-	1	-	-	-	-	
40	Total "	59	71	-	-	-	-	
41	Canadian vessels steam..... Tons	751	892	-	-	-	-	
42	" " sail..... "	20	20	-	-	-	-	
43	U.S. " steam..... "	-	15	-	-	-	-	
44	Total "	771	927	-	-	-	-	

TABLE 6. Vessels Using Canadian Canals, 1954 - Concluded

United States to Canada		Total		Grand total		Compared with 1953		No.
Up	Down	Up	Down	1954	1953	Increase	Decrease	
Number and net registered tons								
-	-	234	234	468	573	-	105	1
-	-	227	231	458	580	-	122	2
-	-	-	-	-	2	-	2	3
-	-	461	465	926	1,155	-	229	4
-	-	8,203	8,185	16,388	22,261	-	5,873	5
-	-	103,143	103,609	206,952	262,627	-	55,675	6
-	-	-	-	-	32	-	32	7
-	-	111,346	111,994	223,340	284,920	-	61,580	8
-	-	258	279	537	457	80	-	9
-	-	8	8	16	27	-	11	10
4	-	8	9	17	21	-	4	11
4	-	274	296	570	505	65	-	12
-	-	5,126	6,382	11,508	11,943	-	435	13
-	-	2,217	866	2,883	3,007	-	124	14
58	-	90	144	234	398	-	164	15
58	-	7,433	7,192	14,625	15,348	-	723	16
-	-	66	17	83	72	11	-	17
-	-	7	14	21	12	9	-	18
-	-	73	31	104	84	20	-	19
-	-	32,356	775	33,131	30,424	2,707	-	20
-	-	2,447	4,459	6,906	1,991	4,915	-	21
-	-	34,803	5,234	40,037	32,415	7,622	-	22
-	-	198	198	396	438	-	42	23
-	-	-	-	-	44	-	44	24
-	-	198	198	396	482	-	86	25
-	-	14,085	13,998	28,083	32,525	-	4,442	26
-	-	-	-	-	17,698	-	17,698	27
-	-	14,085	13,998	28,083	50,223	-	22,140	28
-	-	59	54	113	186	-	73	29
-	-	26	23	49	55	-	6	30
-	-	9	9	18	22	-	4	31
-	-	94	86	180	263	-	83	32
-	-	2,020	1,821	3,841	3,387	454	-	33
-	-	1,937	1,650	3,587	3,831	-	244	34
-	-	126	183	309	303	6	-	35
-	-	4,083	3,654	7,737	7,521	216	-	36
-	-	58	69	127	67	60	-	37
-	-	1	1	2	2	-	-	38
-	-	-	1	1	2	-	1	39
-	-	59	71	130	71	59	-	40
-	-	751	892	1,643	1,016	627	-	41
-	-	20	20	40	55	-	15	42
-	-	-	15	15	24	-	9	43
-	-	771	927	1,698	1,095	603	-	44

WATER TRANSPORT

TABLE 7. Freight Rates by Water on Canadian Wheat During 1953 and 1954

Fort William — Port Arthur to	1953			1954		
	Average rate per bushel	Average rate per ton	Average rate per ton-mile	Average rate per bushel	Average rate per ton	Average rate per ton-mile
	cents	\$	cents	cents	\$	cents
Montreal:						
April	16.00	5.33	0.434	14.89	4.96	0.404
May	16.00	5.33	0.434	14.69	4.86	0.396
June	16.00	5.33	0.434	14.27	4.75	0.387
July	16.00	5.33	0.434	13.69	4.56	0.371
August	15.89	5.30	0.432	13.50	4.50	0.366
September	16.00	5.33	0.434	13.50	4.50	0.366
October	16.00	5.33	0.434	13.50	4.50	0.366
November	16.00	5.33	0.434	13.82	4.60	0.375
December	12.00	4.00	0.326	—	—	—
Average	15.90	5.30	0.432	14.17	4.72	0.384
Including storage	—	—	—	—	—	—
Goderich and Georgian Bay Ports:						
April	5.50	1.83	0.341	5.57	1.85	0.345
May	5.54	1.85	0.345	4.59	1.53	0.285
June	5.50	1.83	0.341	4.50	1.50	0.279
July	5.50	1.83	0.341	4.50	1.50	0.279
August	5.50	1.83	0.341	4.04	1.35	0.251
September	5.50	1.83	0.341	4.00	1.33	0.248
October	5.50	1.83	0.341	4.00	1.33	0.248
November	5.50	1.83	0.341	4.02	1.34	0.250
December	5.52	1.84	0.343	4.45	1.48	0.276
Average	5.51	1.84	0.343	4.26	1.42	0.264
Including storage	5.59	1.86	0.346	4.47	1.49	0.277
Port Colborne:						
April	7.50	2.50	0.295	7.50	2.50	0.295
May	7.50	2.50	0.295	6.56	2.18	0.257
June	7.50	2.50	0.295	6.53	2.17	0.256
July	7.50	2.50	0.295	6.58	2.19	0.258
August	7.59	2.53	0.298	6.21	2.07	0.244
September	7.50	2.50	0.295	6.00	2.00	0.234
October	7.50	2.50	0.295	6.38	2.12	0.250
November	7.80	2.60	0.307	6.18	2.05	0.242
December	7.50	2.50	0.295	7.43	2.47	0.291
Average	7.54	2.51	0.296	6.46	2.15	0.254
Including storage	7.66	2.55	0.301	6.67	2.22	0.262
Buffalo and other U.S. Ports:						
April	9.50	3.17	0.368	6.68	2.22	0.258
May	8.97	2.99	0.347	6.22	2.07	0.240
June	9.45	3.15	0.365	5.11	1.70	0.198
July	9.00	3.00	0.348	—	—	—
August	8.65	2.88	0.334	5.00	1.67	0.194
September	7.50	2.50	0.290	5.13	1.71	0.198
October	7.50	2.50	0.290	5.86	1.95	0.226
November	7.28	2.43	0.282	6.00	2.00	0.232
December	10.48	3.49	0.405	—	—	—
Average	8.82	2.94	0.341	6.09	2.03	0.235
Including storage	8.96	2.99	0.347	6.42	2.14	0.248
Port Colborne to Montreal:						
April	8.55	2.85	0.750	8.50	2.83	0.745
May	8.47	2.82	0.742	8.20	2.73	0.718
June	8.50	2.83	0.745	8.00	2.67	0.703
July	8.50	2.83	0.745	8.00	2.67	0.703
August	8.50	2.83	0.745	7.88	2.63	0.692
September	8.89	2.96	0.779	7.64	2.55	0.671
October	8.50	2.83	0.745	7.75	2.58	0.679
November	8.33	2.78	0.732	7.50	2.50	0.658
December	8.50	2.83	0.745	7.50	2.50	0.658
Average	8.52	2.84	0.747	7.81	2.60	0.684

TABLE 8. Freight Rates by Water on Barley and Oats During 1954

Fort William — Port Arthur to	Barley			Oats		
	Average rate per bushel	Average rate per ton	Average rate per ton-mile	Average rate per bushel	Average rate per ton	Average rate per ton-mile
	cents	\$	cents	cents	\$	cents
Montreal:						
April	15.25	6.35	0.517	13.08	7.69	0.626
May	13.96	5.82	0.474	12.28	7.22	0.588
June	13.75	5.73	0.467	12.51	7.36	0.600
July	13.65	5.69	0.463	12.00	7.06	0.575
August	13.36	5.57	0.454	11.40	6.71	0.546
September	12.75	5.31	0.432	11.10	6.53	0.532
October	12.75	5.31	0.432	—	—	—
November	13.06	5.44	0.443	11.00	6.47	0.527
December	—	—	—	—	—	—
Average	14.33	5.97	0.486	11.71	6.89	0.561

TABLE 8. Freight Rates by Water on Barley and Oats During 1954 — Concluded

Fort William — Port Arthur to	Barley			Oats		
	Average rate per bushel	Average rate per ton	Average rate per ton-mile	Average rate per bushel	Average rate per ton	Average rate per ton-mile
	cents	\$	cents	cents	\$	cents
Goderich and Georgian Bay Ports:						
April	5.30	2.21	0.412	5.00	2.94	0.547
May	4.80	2.00	0.372	4.43	2.61	0.486
June	4.25	1.77	0.330	4.00	2.35	0.438
July	4.27	1.78	0.330	4.00	2.35	0.438
August	4.41	1.84	0.343	3.92	2.31	0.430
September	3.71	1.55	0.289	3.50	2.06	0.384
October	3.75	1.56	0.291	3.50	2.06	0.384
November	3.85	1.60	0.298	3.60	2.12	0.395
December	4.71	1.96	0.365	4.49	2.64	0.492
Average	4.17	1.74	0.324	4.00	2.35	0.438
Port Colborne:						
April	7.25	3.02	0.356	6.68	3.93	0.463
May	6.25	2.60	0.307	6.36	3.74	0.441
June	6.25	2.60	0.307	5.75	3.38	0.399
July	6.34	2.64	0.311	5.75	3.38	0.399
August	5.85	2.44	0.288	5.75	3.38	0.399
September	5.99	2.50	0.295	5.25	3.09	0.364
October	5.96	2.48	0.292	—	—	—
November	6.15	2.56	0.302	5.47	3.22	0.380
December	—	—	—	—	—	—
Average	6.12	2.55	0.301	5.77	3.39	0.400
Buffalo and other U.S. Ports:						
April	5.80	2.42	0.281	4.50	2.65	0.307
May	5.54	2.31	0.268	3.94	2.32	0.270
June	5.96	2.48	0.288	3.85	2.26	0.262
July	5.50	2.30	0.267	3.83	2.25	0.261
August	6.44	2.68	0.311	4.00	2.35	0.273
September	5.41	2.25	0.261	4.00	2.35	0.273
October	6.11	2.55	0.296	—	—	—
November	5.18	2.16	0.251	5.17	3.04	0.353
December	5.00	2.08	0.241	—	—	—
Average	5.68	2.34	0.271	4.23	2.49	0.289
Port Colborne to Montreal:						
April	8.00	3.33	0.876	—	—	—
May	7.71	3.21	0.845	7.17	4.22	1.111
June	7.50	3.13	0.824	6.25	3.68	0.968
July	7.52	3.13	0.824	7.13	4.19	1.103
August	7.13	2.97	0.782	6.25	3.68	0.968
September	7.00	2.92	0.768	5.75	3.38	0.889
October	6.93	2.89	0.761	5.75	3.38	0.889
November	7.00	2.92	0.768	5.75	3.38	0.889
December	7.00	2.92	0.768	5.20	3.06	0.805
Average	7.22	3.01	0.792	6.26	3.68	0.968

TABLE 9. Freight Rates by Water on Flax and Rye During 1954

Fort William — Port Arthur to	Flax			Rye		
	Average rate per bushel	Average rate per ton	Average rate per ton-mile	Average rate per bushel	Average rate per ton	Average rate per ton-mile
	cents	\$	cents	cents	\$	cents
Montreal:						
April	17.21	6.15	0.501	—	—	—
May	16.50	5.89	0.480	—	—	—
June	—	—	—	—	—	—
July	—	—	—	14.50	5.18	0.422
August	—	—	—	—	—	—
September	—	—	—	—	—	—
October	—	—	—	—	—	—
November	—	—	—	—	—	—
December	—	—	—	—	—	—
Average	16.91	6.04	0.492	14.50	5.18	0.422
Goderich and Georgian Bay Ports:						
April	—	—	—	5.50	1.96	0.365
May	—	—	—	5.04	1.80	0.335
June	—	—	—	4.50	1.61	0.300
July	—	—	—	—	—	—
August	—	—	—	—	—	—
September	—	—	—	4.02	1.44	0.268
October	—	—	—	4.00	1.43	0.266
November	—	—	—	4.00	1.43	0.266
December	—	—	—	4.00	1.43	0.266
Average	—	—	—	4.19	1.50	0.279

TABLE 9. Freight Rates by Water on Flax and Rye During 1954 - Concluded

Fort William - Port Arthur to	Flax			Rye		
	Average rate per bushel	Average rate per ton	Average rate per ton-mile	Average rate per bushel	Average rate per ton	Average rate per ton-mile
	cents	\$	cents	cents	\$	cents
Port Colborne:						
April	7.50	2.68	0.316	7.50	2.68	0.316
May	7.50	2.68	0.316	—	—	—
June	—	—	—	—	—	—
July	—	—	—	6.50	2.32	0.274
August	—	—	—	6.00	2.14	0.252
September	—	—	—	6.38	2.28	0.269
October	—	—	—	—	—	—
November	—	—	—	6.00	2.14	0.252
December	—	—	—	—	—	—
Average	7.50	2.68	0.316	6.39	2.28	0.269
Buffalo and other U.S. Ports:						
April	—	—	—	6.15	2.20	0.255
May	—	—	—	5.86	2.09	0.242
June	—	—	—	5.17	1.85	0.215
July	—	—	—	4.00	1.43	0.166
August	—	—	—	—	—	—
September	—	—	—	5.00	1.79	0.208
October	—	—	—	—	—	—
November	—	—	—	6.50	2.32	0.269
December	—	—	—	—	—	—
Average	—	—	—	5.65	2.02	0.234
Port Colborne to Montreal:						
April	8.50	3.04	0.800	—	—	—
May	9.00	3.21	0.845	—	—	—
June	8.50	3.04	0.800	—	—	—
July	8.50	3.04	0.800	—	—	—
August	7.98	2.85	0.750	—	—	—
September	8.00	2.86	0.753	7.50	2.68	0.705
October	—	—	—	—	—	—
November	—	—	—	—	—	—
December	—	—	—	—	—	—
Average	8.35	2.98	0.784	7.50	2.68	0.705

TABLE 10a. Freight Carried up the St. Lawrence Canals from Outside Points

Country of Registry	Number of vessels		Cargo tons	
	1954	1953	1954	1953
Canada	134	144	161,579	154,196
Great Britain	47	58	37,642	49,950
Norway	82	123	81,756	175,013
Sweden	33	37	37,673	50,592
Netherlands	35	35	37,810	41,476
Denmark	—	1	—	500
Finland	—	5	—	6,841
Germany	93	61	65,142	70,702
France	7	6	7,031	7,396
Panama	—	1	—	1,718
Total	431	471	428,633	558,384

TABLE 10b. Freight Carried Down the St. Lawrence Canals to Outside Points

Country of Registry	Number of vessels		Cargo tons	
	1954	1953	1954	1953
Canada	49	40	38,200	35,249
Great Britain	72	56	56,291	44,066
Norway	80	106	90,454	119,251
Netherlands	35	38	41,194	41,021
Sweden	33	32	43,307	37,249
Germany	93	69	102,735	65,698
Denmark	—	1	—	600
Finland	—	4	—	3,112
France	7	5	7,467	6,169
Total	369	351	379,648	352,415

TABLE 11. Traffic Through Sault Ste. Marie Canal—Canadian and United States Locks, in 1954

	Up			Down		Compared with 1953	
	Canadian Canal	United States Canal	Total	Grand Total	Increase	Decrease	
	No.	No.	No.	No.	No.	No.	
Vessel passages.....	2,285	6,302	8,587	17,022	—	8,582	
Registered tonnage.....	2,416,203	31,416,227	33,832,430	67,683,259	—	36,431,004	
Passengers.....	56,769	1,619	58,388	118,208	8,592	—	
	Tons	Tons	Tons	Tons	Tons	Tons	
Lumber.....	—	—	—	—	—	—	
Pulpwood.....	1,846	—	1,846	462,471	—	20,369	
Flour.....	—	—	—	97,918	—	11,498	
Wheat.....	—	—	—	6,304,976	—	1,791,771	
Grain (other than wheat).....	—	—	—	4,405,695	—	818,522	
Copper.....	—	—	—	—	—	—	
Iron ore.....	—	173,828	173,828	62,583,469	—	36,074,122	
Pig iron.....	2,270	—	2,270	219,910	43,191	—	
Manufactured iron and steel.....	5,666	123,002	128,668	225,712	—	204,637	
Soft coal and coke.....	202,143	7,195,480	7,397,623	7,397,623	—	1,211,975	
Hard coal.....	—	47,716	47,716	47,716	—	49,225	
Salt.....	13,082	81,415	94,497	94,497	29,651	—	
Crude oil.....	—	—	—	630,148	—	2,696,896	
Other oils and gasoline.....	286,209	352,835	639,044	648,808	11,672	—	
Stone.....	6,470	1,156,737	1,163,207	1,221,257	—	168,847	
Merchandise and miscellaneous.....	328,304	222,413	550,717	1,075,149	—	112,473	
Total freight.....	845,990	9,353,428	10,199,416	85,415,349	—	43,073,821	
	No.	No.	No.	No.	No.	No.	
Vessel passages.....	2,064	6,371	8,435	17,022	—	8,582	
Registered tonnage.....	1,677,708	32,173,121	33,850,829	67,683,259	—	36,431,004	
Passengers.....	58,245	1,575	59,820	118,208	8,592	—	
	Tons	Tons	Tons	Tons	Tons	Tons	
Lumber.....	—	—	—	—	—	—	
Pulpwood.....	173,179	287,446	460,625	462,471	—	20,369	
Flour.....	96,918	1,000	97,918	97,918	—	11,498	
Wheat.....	217,596	6,087,380	6,304,976	6,304,976	—	1,791,771	
Grain (other than wheat).....	698,942	3,706,753	4,405,695	4,405,695	—	818,522	
Copper.....	—	—	—	—	—	—	
Iron ore.....	—	62,409,641	62,409,641	62,583,469	—	36,074,122	
Pig iron.....	9,598	208,042	217,640	219,910	43,191	—	
Manufactured iron and steel.....	83,565	13,479	97,044	225,712	—	204,637	
Soft coal and coke.....	—	—	—	7,397,623	—	1,211,975	
Hard coal.....	—	—	—	47,716	—	49,225	
Salt.....	—	—	—	94,497	29,651	—	
Crude oil.....	14,070	616,078	630,148	630,148	—	2,696,896	
Other oils and gasoline.....	9,764	—	9,764	648,808	11,672	—	
Stone.....	55,400	2,650	58,050	1,221,257	—	168,847	
Merchandise and miscellaneous.....	402,946	121,486	524,432	1,075,149	—	112,473	
Total freight.....	1,761,978	73,453,955	75,215,933	85,415,349	—	43,073,821	

TABLE 12. Traffic on the Sault Ste. Marie Canal during 1954

No.	Commodity	Canada to Canada		Canada to U. S.		U. S. to U. S.	
		Up	Down	Up	Down	Up	Down
1	Passengers..... No.	10,123	10,485	—	1,299	45,347	46,461
	Agricultural products:	Tons	Tons	Tons	Tons	Tons	Tons
2	Barley.....	—	271,141	—	142,761	—	2,592
3	Corn.....	—	—	—	—	—	—
4	Oats.....	—	182,836	—	29,759	—	—
5	Rye.....	—	9,805	—	6,616	—	—
6	Flaxseed.....	—	19,405	—	—	—	3,688
7	Wheat.....	—	204,114	—	3,518	—	9,964
8	Other grains.....	—	—	—	—	—	—
9	Flour.....	—	96,918	—	—	—	—
10	Hay and straw.....	—	—	—	—	—	—
11	Other mill products.....	—	183,415	—	—	—	—
12	Fruit and vegetables.....	—	—	—	—	—	—
13	Potatoes.....	—	—	—	—	—	—
14	Total.....	—	967,634	—	182,654	—	16,244
	Animal products:						
15	Fish.....	5	133	—	—	—	—
16	Dressed meats.....	—	—	—	—	—	—
17	Other packing-house products.....	—	—	—	—	—	—
18	All other animal products.....	—	—	—	—	—	—
19	Total.....	5	133	—	—	—	—
	Manufactures and miscellaneous:						
20	Gasoline.....	99,510	9,164	—	—	48,488	—
21	Petroleum and other oils.....	108,829	2,920	—	—	25,407	—
22	Agricultural implements.....	—	—	—	—	—	—
23	Cement, brick, plaster.....	—	—	—	—	—	—
24	Iron, pig and bloom.....	2,270	9,598	—	—	—	—
25	Iron and steel, other.....	5,666	73,453	—	2,542	—	—
26	Sugar.....	—	30	—	—	—	—
27	Salt.....	10,082	—	—	—	—	—
28	Beverages.....	—	—	—	—	—	—
29	Autos and parts.....	3,878	1,245	—	—	804	—
30	Paper.....	—	17,316	—	95,689	—	—
31	Wood pulp.....	—	438	—	79,224	2,778	—
32	Total.....	230,235	114,164	—	177,455	77,477	—
	Forest products:						
33	Pulpwood.....	—	19,218	1,846	153,961	—	—
34	Logs-posts-poles-piling.....	—	75	—	588	—	—
35	Firewood.....	—	—	—	—	—	—
36	Lumber-mill-cooperage stock.....	—	—	—	—	—	—
37	Other forest products.....	—	—	—	—	—	—
38	Total.....	—	19,293	1,846	154,549	—	—
	Mine products:						
39	Hard coal.....	—	—	—	—	—	—
40	Soft coal.....	5	—	—	—	—	—
41	Coke.....	—	—	—	—	—	—
42	Copper ore.....	—	—	—	—	—	—
43	Iron ore.....	—	—	—	—	—	—
44	Other ore.....	—	—	—	—	—	—
45	Sand, gravel and stone.....	—	52,700	—	2,700	6,470	—
46	Total.....	5	52,700	—	2,700	6,470	—
47	All other freight.....	307,779	12,634	2,045	1,225	609	5,846
48	Grand total.....	538,024	1,166,558	3,891	518,583	84,556	22,090

Tons (2,000 lbs.) of cargo. Number of pleasure craft lockages in 1954 = 381

TABLE 12. Traffic on the Sault Ste. Marie Canal during 1954

U. S. to Canada		Total		Grand total		Compared with 1953		No.
Up	Down	Up	Down	1954	1953	Increase	Decrease	
1,299	—	56,769	58,245	115,014	105,366	9,648	—	1
Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	
—	—	—	416,494	416,494	458,190	—	41,696	2
—	22,993	—	22,993	22,993	55,942	—	32,949	3
—	—	—	212,595	212,595	337,581	—	124,986	4
—	—	—	16,421	16,421	56,503	—	40,082	5
—	7,346	—	30,439	30,439	55,007	—	24,568	6
—	—	—	217,596	217,596	532,267	—	314,671	7
—	—	—	—	—	3,201	—	3,201	8
—	—	—	96,918	96,918	107,308	—	10,390	9
—	—	—	—	—	—	—	—	10
—	870	—	184,285	184,285	199,561	—	15,276	11
—	—	—	—	—	—	—	—	12
—	—	—	—	—	—	—	—	13
—	31,209	—	1,197,741	1,197,741	1,805,560	—	607,819	14
—	—	5	133	138	178	—	40	15
—	—	—	—	—	—	—	—	16
—	—	—	—	—	—	—	—	17
—	—	—	—	—	—	—	—	18
—	—	5	133	138	178	—	40	19
475	—	148,473	9,164	157,637	164,250	—	6,613	20
3,500	11,750	137,736	14,670	152,406	175,033	—	22,627	21
—	—	—	—	—	1,477	—	1,477	22
—	—	—	—	—	—	—	—	23
—	—	2,270	9,598	11,868	4,455	7,413	—	24
—	7,570	5,666	83,565	89,231	35,442	53,789	—	25
—	—	—	30	30	2,939	—	2,909	26
3,000	—	13,082	—	13,082	17,133	—	4,051	27
—	—	—	—	—	—	—	—	28
—	—	4,682	1,245	5,927	8,627	—	2,700	29
—	—	—	113,005	113,005	123,736	—	10,731	30
—	—	2,778	79,662	82,440	90,250	—	7,810	31
6,975	19,320	314,687	310,939	625,626	623,342	2,284	—	32
—	—	1,846	173,179	175,025	183,140	—	8,115	33
—	—	—	663	663	655	8	—	34
—	—	—	—	—	—	—	—	35
—	—	—	—	—	—	—	—	36
—	—	—	—	—	—	—	—	37
—	—	1,846	173,842	175,688	183,796	—	8,107	38
—	—	—	—	—	12,122	—	12,122	39
202,138	—	202,143	—	202,143	273,536	—	71,393	40
—	—	—	—	—	1,629	—	1,629	41
—	—	—	—	—	—	—	—	42
—	—	—	—	—	702	—	702	43
—	—	—	—	—	—	—	—	44
—	—	6,470	55,400	61,870	110,138	—	48,268	45
202,138	—	208,613	55,400	264,013	398,127	—	134,114	46
10,406	4,218	320,839	23,923	344,762	378,407	—	33,645	47
219,519	54,747	845,990	1,761,978	2,607,968	3,389,409	—	781,441	48

TABLE 13. Through and Way Traffic on the Welland Ship Canal during 1954

No.	Commodity	Canada to Canada		Canada to U.S.		U.S. to U.S.	
		Up	Down	Up	Down	Up	Down
1	Passengers No.	—	30	—	—	—	—
	Agricultural products:	Tons	Tons	Tons	Tons	Tons	Tons
2	Barley	—	1, 152, 168	—	9, 015	—	30, 982
3	Corn	—	114, 400	—	—	—	48, 729
4	Oats	—	279, 505	—	3, 801	—	—
5	Rye	—	48, 384	—	—	—	—
6	Flaxseed	—	232, 729	—	—	—	75, 927
7	Wheat	3, 811	2, 657, 675	—	1, 268	—	170, 461
8	Other grains	—	22, 578	—	—	—	1, 953
9	Flour	500	7, 113	2, 324	12, 683	—	—
10	Hay and straw	—	—	—	—	—	—
11	Other mill products	—	8, 570	—	—	—	—
12	Fruit and vegetables	—	—	—	—	—	—
13	Potatoes	—	—	—	—	—	—
14	Total	4, 311	4, 523, 122	2, 324	26, 767	—	328, 052
	Animal products:						
15	Fish	—	—	2, 239	—	449	—
16	Dressed meats	—	—	—	—	—	—
17	Other packing-house products	—	—	—	—	—	—
18	All other animal products	—	—	—	—	—	—
19	Total	—	—	2, 239	—	449	—
	Manufactures and miscellaneous:						
20	Gasoline	169, 527	23, 464	1, 900	—	12, 671	113, 962
21	Petroleum and other oils	206, 165	241, 809	4, 850	1, 338	304, 299	80, 353
22	Agricultural implements	—	—	—	—	—	—
23	Cement, brick, plaster	24, 510	1, 400	210	—	—	52, 900
24	Iron, pig and bloom	850	905	—	—	2, 384	10, 012
25	Iron and steel, other	2, 537	69, 339	5, 217	1, 242	5, 054	21, 238
26	Sugar	—	2, 235	—	—	49, 867	—
27	Salt	—	24, 645	—	—	—	9, 666
28	Beverages	—	—	—	—	—	—
29	Autos and parts	1, 296	181	—	—	795	—
30	Paper	—	13, 029	370, 382	3, 358	35, 419	—
31	Wood pulp	1, 800	362	16, 895	15, 490	20, 901	—
32	Total	406, 685	377, 369	399, 454	21, 428	431, 390	288, 131
	Forest products:						
33	Pulpwood	210, 396	175, 577	130, 028	—	—	—
34	Logs-posts-poles-piling	—	—	—	—	—	—
35	Firewood	—	—	—	—	—	—
36	Lumber-mill-cooperage stock	—	—	—	—	—	—
37	Other forest products	—	—	—	—	—	—
38	Total	210, 396	175, 577	130, 028	—	—	—
	Mine products:						
39	Hard coal	—	—	—	—	—	4, 344
40	Soft coal	4, 630	—	—	—	—	9, 239
41	Coke	—	—	—	6, 479	—	—
42	Copper ore	—	—	—	—	—	—
43	Iron ore	4, 440	71, 289	175, 244	—	—	—
44	Other ore	36, 560	51, 749	64, 721	350	1, 500	—
45	Sand, gravel and stone	58, 599	28, 061	—	—	1, 311	—
46	Total	104, 229	151, 099	239, 965	6, 829	2, 811	13, 583
47	All other freight	225, 661	63, 220	46, 574	27, 668	167, 142	302, 126
48	Grand total	951, 282	5, 290, 387	820, 584	82, 692	601, 792	931, 892

Tons (2,000 lbs.) of cargo. Number of pleasure craft lockages in 1954 through the locks = 41.

TABLE 13. Through and Way Traffic on the Welland Ship Canal during 1954

U.S. to Canada		Total		Grand total		Compared with 1953		No.
Up	Down	Up	Down	1954	1953	Increase	Decrease	
-	10	-	40	40	4,776	-	4,736	1
Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	
-	7,452	-	1,199,617	1,199,617	1,738,776	-	539,159	2
-	150,587	-	313,716	313,716	337,286	-	23,570	3
-	-	-	283,306	283,306	284,188	-	882	4
-	-	-	48,384	48,384	95,947	-	47,563	5
-	54,788	-	363,444	363,444	170,265	193,179	-	6
-	24,602	3,811	2,854,006	2,857,817	2,795,429	62,388	-	7
-	216,496	-	241,027	241,027	164,562	76,465	-	8
-	-	2,824	19,796	22,620	13,664	8,956	-	9
-	-	-	-	-	-	-	-	10
-	870	-	9,440	9,440	7,081	2,359	-	11
-	-	-	-	-	-	-	-	12
-	-	-	-	-	-	-	-	13
-	454,795	6,635	5,332,736	5,339,371	5,607,198	-	267,827	14
-	176	2,688	176	2,864	160	2,704	-	15
-	-	-	-	-	-	-	-	16
-	-	-	-	-	1,600	-	1,600	17
-	-	-	-	-	-	-	-	18
-	176	2,688	176	2,864	1,760	1,104	-	19
-	48,650	184,098	186,076	370,174	459,184	-	89,010	20
14,811	1,072,117	529,925	1,395,617	1,925,542	1,879,621	45,921	-	21
-	-	-	-	-	2,256	-	2,256	22
-	-	24,720	54,300	79,020	71,976	7,044	-	23
-	2,520	3,234	13,437	16,671	41,647	-	24,976	24
-	48,418	12,808	140,237	153,045	196,256	-	43,211	25
-	-	49,867	2,235	52,102	37,146	14,956	-	26
-	56,515	-	92,826	92,826	77,652	15,174	-	27
-	-	-	-	-	30	-	30	28
-	-	2,091	181	2,272	3,109	-	837	29
-	-	405,801	16,387	422,188	422,903	-	715	30
-	-	39,596	15,852	55,448	80,535	-	25,087	31
14,611	1,230,220	1,252,140	1,917,148	3,169,288	3,272,315	-	103,027	32
-	-	340,424	175,577	516,001	500,163	15,838	-	33
-	-	-	-	-	125	-	125	34
-	-	-	-	-	-	-	-	35
-	-	-	-	-	-	-	-	36
-	-	-	-	-	-	-	-	37
-	-	340,424	175,577	516,001	500,288	15,713	-	38
-	-	-	4,344	4,344	9,690	-	5,346	39
-	4,970,299	4,630	4,979,538	4,984,168	5,955,755	-	971,587	40
-	3,100	-	9,579	9,579	8,192	1,387	-	41
-	-	-	-	-	1,600	-	1,600	42
-	2,047,880	179,684	2,119,169	2,298,853	2,988,630	-	689,777	43
-	-	102,781	52,099	154,860	142,420	12,460	-	44
-	78,651	59,910	106,712	166,622	190,558	-	23,936	45
-	7,099,930	347,005	7,271,441	7,618,446	9,296,845	-	1,678,399	46
7,522	28,375	446,899	421,389	868,288	863,744	4,544	-	47
22,133	8,813,486	2,395,791	15,118,467	17,514,258	19,542,150	-	2,027,892	48

TABLE 14. Through Traffic on the Welland Ship Canal during 1954

No.	Commodity	Canada to Canada		Canada to U.S.		U.S. to U.S.	
		Up	Down	Up	Down	Up	Down
1	Passengers No.	-	30	-	-	-	-
	Agricultural products:	Tons	Tons	Tons	Tons	Tons	Tons
2	Barley	-	1,129,466	-	9,015	-	30,982
3	Corn	-	108,062	-	-	-	48,729
4	Oats	-	277,181	-	3,801	-	-
5	Rye	-	48,384	-	-	-	-
6	Flaxseed	-	232,729	-	-	-	75,927
7	Wheat	-	2,360,891	-	1,268	-	170,461
8	Other grains	-	16,635	-	-	-	1,953
9	Flour	-	2,392	-	8,298	-	-
10	Hay and straw	-	-	-	-	-	-
11	Other mill products	-	8,570	-	-	-	-
12	Fruit and vegetables	-	-	-	-	-	-
13	Potatoes	-	-	-	-	-	-
14	Total	-	4,184,310	-	22,382	-	328,052
	Animal products:						
15	Fish	-	-	2,239	-	449	-
16	Dressed meats	-	-	-	-	-	-
17	Other packing-house products	-	-	-	-	-	-
18	All other animal products	-	-	-	-	-	-
19	Total	-	-	2,239	-	449	-
	Manufactures and miscellaneous:						
20	Gasoline	164,727	22,464	1,900	-	12,671	113,962
21	Petroleum and other oils	168,109	198,984	4,850	1,338	304,299	80,353
22	Agricultural implements	-	-	-	-	-	-
23	Cement, brick, plaster	24,510	1,400	210	-	-	52,900
24	Iron, pig and bloom	150	-	-	-	2,384	10,012
25	Iron and steel, other	-	9,235	2,417	1,242	5,054	21,238
26	Sugar	-	2,235	-	-	49,867	-
27	Salt	-	24,645	-	-	-	9,666
28	Beverages	-	-	-	-	-	-
29	Autos and parts	1,296	181	-	-	795	-
30	Paper	-	11,669	209,804	-	35,419	-
31	Wood pulp	-	362	16,895	15,490	20,901	-
32	Total	358,792	271,175	236,076	18,070	431,390	288,131
	Forest products:						
33	Pulpwood	-	-	130,028	-	-	-
34	Logs-posts-poles-pling	-	-	-	-	-	-
35	Firewood	-	-	-	-	-	-
36	Lumber-mill-cooperage stock	-	-	-	-	-	-
37	Other forest products	-	-	-	-	-	-
38	Total	-	-	130,028	-	-	-
	Mine products:						
39	Hard coal	-	-	-	-	-	4,344
40	Soft coal	-	-	-	-	-	9,239
41	Coke	-	-	-	-	-	-
42	Copper ore	-	-	-	-	-	-
43	Iron ore	-	71,289	175,244	-	-	-
44	Other ore	27,180	41,824	64,721	-	1,500	-
45	Sand, gravel and stone	3,885	20,158	-	-	1,311	-
46	Total	31,065	133,271	239,965	-	2,811	13,583
47	All other freight	194,935	54,431	46,571	21,088	167,142	302,126
48	Grand total	584,792	4,643,187	654,879	61,540	601,792	931,892

Tons (2,000 lbs.) of cargo.

TABLE 14. Through Traffic on the Welland Ship Canal during 1954

U.S. to Canada		Total		Grand total		Compared with 1953		No.
Up	Down	Up	Down	1954	1953	Increase	Decrease	
-	10	-	40	40	1,260	-	1,220	1
Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	
-	7,452	-	1,176,915	1,176,915	1,678,208	-	501,293	2
-	144,203	-	300,994	300,994	337,286	-	36,292	3
-	-	-	280,982	280,982	257,989	22,993	-	4
-	-	-	48,384	48,384	93,903	-	45,519	5
-	54,788	-	363,444	363,444	170,265	193,179	-	6
-	15,059	-	2,547,679	2,547,679	2,524,366	23,313	-	7
-	216,496	-	235,084	235,084	164,562	70,522	-	8
-	-	-	10,690	10,690	7,726	2,964	-	9
-	-	-	-	-	-	-	-	10
-	870	-	9,440	9,440	7,081	2,359	-	11
-	-	-	-	-	-	-	-	12
-	-	-	-	-	-	-	-	13
-	438,868	-	4,973,612	4,973,612	5,241,386	-	267,774	14
-	176	2,688	176	2,664	160	2,704	-	15
-	-	-	-	-	-	-	-	16
-	-	-	-	-	1,600	-	1,600	17
-	-	-	-	-	-	-	-	18
-	176	2,688	176	2,864	1,760	1,104	-	19
-	48,650	179,298	185,076	364,374	425,707	-	61,333	20
14,611	1,044,217	491,869	1,324,692	1,816,761	1,787,990	28,771	-	21
-	-	-	-	-	2,256	-	2,256	22
-	-	24,720	54,300	79,020	70,456	8,564	-	23
-	2,520	2,534	12,532	15,066	39,652	-	24,586	24
-	40,128	7,471	71,843	79,314	154,655	-	75,341	25
-	-	49,867	2,235	52,102	37,146	14,956	-	26
-	58,515	-	92,826	92,826	77,652	15,174	-	27
-	-	-	-	-	30	-	-	28
-	-	2,091	181	2,272	3,109	-	837	29
-	-	245,223	11,669	256,892	261,631	-	4,739	30
-	-	37,796	15,852	53,648	78,385	-	24,737	31
14,611	1,194,030	1,040,869	1,771,406	2,812,275	2,938,669	-	126,394	32
-	-	130,028	-	130,028	119,976	10,052	-	33
-	-	-	-	-	125	-	125	34
-	-	-	-	-	-	-	-	35
-	-	-	-	-	-	-	-	36
-	-	-	-	-	-	-	-	37
-	-	130,028	-	130,028	120,101	9,927	-	38
-	-	-	4,344	4,344	9,690	-	5,346	39
-	4,568,143	-	4,577,382	4,577,382	5,551,077	-	973,695	40
-	3,100	-	3,100	3,100	6,330	-	3,230	41
-	-	-	-	-	1,600	-	1,600	42
-	2,047,880	175,244	2,119,169	2,294,413	2,976,786	-	662,373	43
-	-	93,401	41,824	135,225	116,035	19,190	-	44
-	66,730	5,196	86,888	92,084	88,442	3,642	-	45
-	6,685,853	273,841	6,832,707	7,106,348	8,749,960	-	1,643,412	46
3,936	22,075	412,584	399,720	812,304	797,954	14,350	-	47
18,547	8,341,002	1,860,010	13,977,621	15,837,631	17,849,830	-	2,012,199	48

TABLE 15. Way Traffic on the Welland Ship Canal during 1954

Commodity	Canada to Canada		Canada to U.S.		U.S. to U.S.			
	Up	Down	Up	Down	Up	Down		
Passengers	No.	-	-	-	-	-		
Agricultural products:	Tons	Tons	Tons	Tons	Tons	Tons		
Barley	-	22,702	-	-	-	-		
Corn	-	6,338	-	-	-	-		
Oats	-	2,324	-	-	-	-		
Rye	-	-	-	-	-	-		
Wheat	3,811	296,784	-	-	-	-		
Other grains	-	5,943	-	-	-	-		
Flour	500	4,721	2,324	4,385	-	-		
Total	4,311	338,812	2,324	4,385	-	-		
Manufactures and Miscellaneous:								
Gasoline	4,800	1,000	-	-	-	-		
Petroleum and other oils	38,056	42,825	-	-	-	-		
Cement, brick, plaster	-	-	-	-	-	-		
Iron, pig and bloom	700	905	-	-	-	-		
Iron and steel, other	2,537	60,104	2,800	-	-	-		
Paper	-	1,360	160,578	3,358	-	-		
Wood pulp	1,800	-	-	-	-	-		
Total	47,893	106,194	163,378	3,358	-	-		
Forest products:								
Pulpwood	210,396	175,577	-	-	-	-		
Total	210,396	175,577	-	-	-	-		
Mine products:								
Soft coal	4,630	-	-	-	-	-		
Coke	-	-	-	6,479	-	-		
Iron ore	4,440	-	-	-	-	-		
Other ore	9,380	9,925	-	350	-	-		
Sand, gravel and stone	54,714	7,903	-	-	-	-		
Total	73,164	17,828	-	6,829	-	-		
All other freight	30,726	8,789	3	6,580	-	-		
Grand Total	366,490	647,200	165,705	21,152	-	-		
	U.S. to Canada		Total		Grand Total		Compared with 1953	
	Up	Down	Up	Down	1954	1953	Increase	Decrease
Passengers	No.	-	-	-	-	3,516	-	3,516
Agricultural products:	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons
Barley	-	-	-	22,702	22,702	60,568	-	37,866
Corn	-	6,384	-	12,722	12,722	-	12,722	-
Oats	-	-	-	2,324	2,324	26,199	-	23,875
Rye	-	-	-	-	-	2,044	-	2,044
Wheat	-	9,543	3,811	306,327	310,138	271,063	39,075	-
Other grains	-	-	-	5,943	5,943	-	5,943	-
Flour	-	-	2,824	9,106	11,930	5,938	5,992	-
Total	-	15,927	6,635	359,124	365,759	365,812	-	53
Manufactures and Miscellaneous:								
Gasoline	-	-	4,800	1,000	5,800	33,477	-	27,677
Petroleum and other oils	-	27,900	38,056	70,725	108,781	91,631	17,150	-
Cement, brick, plaster	-	-	-	-	-	1,520	-	1,520
Iron, pig and bloom	-	-	700	905	1,605	1,995	-	390
Iron and steel, other	-	8,290	5,337	68,394	73,731	41,601	32,130	-
Paper	-	-	160,578	4,718	165,296	161,272	4,024	-
Wood pulp	-	-	1,800	-	1,800	2,150	-	350
Total	-	36,190	211,271	145,742	357,013	333,646	23,367	-
Forest products:								
Pulpwood	-	-	210,396	175,577	385,973	380,187	5,786	-
Total	-	-	210,396	175,577	385,973	380,187	5,786	-
Mine products:								
Soft coal	-	402,156	4,630	402,156	406,786	404,678	2,108	-
Coke	-	-	-	6,479	6,479	1,862	4,617	-
Iron ore	-	-	4,440	-	4,440	11,844	-	7,404
Other ore	-	-	9,380	10,275	19,655	26,385	-	6,730
Sand, gravel and stone	-	11,921	54,714	19,824	74,538	102,116	-	27,578
Total	-	414,077	73,164	438,734	511,898	546,885	-	34,987
All other freight	3,586	6,300	34,315	21,669	55,984	65,790	-	9,806
Grand Total	3,586	472,494	535,781	1,140,846	1,676,627	1,692,320	-	15,693

Tons (2,000 lbs.) of cargo.

TABLE 16. Welland Ship Canal Traffic

Between	Down-bound			Up-bound		
	No. of vessels	Registered net tons	Tons of freight	No. of vessels	Registered net tons	Tons of freight
Season of Navigation, 1954						
Lake Superior and						
Hamilton	113	915,571	1,909,753	133	873,220	59,229
Toronto	131	326,351	593,287	156	458,789	88,445
Kingston	60	372,269	738,580	54	265,106	2,385
Prescott, Ogdensburg & Brockville.....	113	526,806	1,073,684	79	426,506	73
Oswego and South	34	114,078	222,489	10	13,601	—
Other Lake Ontario Ports	49	309,408	510,011	63	342,117	75,396
Montreal and below	190	250,840	354,584	165	223,385	110,664
Other Ports below Prescott	7	7,861	15,790	6	7,934	1,314
Welland Ship Canal	96	235,358	402,754	54	147,066	10,189
Total	793	3,058,542	5,820,932	720	2,757,724	345,695
Lake Michigan and						
Hamilton	21	114,512	256,954	8	29,973	—
Toronto	34	88,557	180,565	1	2,921	—
Kingston	2	2,593	5,708	1	9,291	—
Prescott, Ogdensburg & Brockville.....	4	8,853	21,345	—	—	—
Oswego and South	56	72,450	109,232	49	35,763	41,990
Other Lake Ontario Ports	2	6,754	8,325	1	10	—
Montreal and below	157	140,641	175,375	272	266,560	228,862
Other Ports below Prescott	—	—	—	1	1,309	—
Welland Ship Canal	10	27,280	30,926	43	105,735	151,478
Total	286	461,640	786,430	374	451,562	422,330
Lake Huron and						
Hamilton	4	14,968	32,333	5	24,780	—
Toronto	4	3,071	2,931	6	23,300	—
Kingston	3	4,676	8,865	2	1,700	20
Prescott, Ogdensburg & Brockville.....	—	—	—	—	—	—
Oswego and South	7	20,393	54,000	10	25,947	—
Other Lake Ontario Ports	5	3,938	9,460	—	—	—
Montreal and below	13	16,297	34,636	4	2,032	5,170
Other Ports below Prescott	—	—	—	—	—	—
Welland Ship Canal	26	41,327	57,254	6	14,011	—
Total	62	104,670	199,479	33	91,770	5,190
Sarnia to Port Colborne and						
Hamilton	299	1,123,292	2,337,525	327	1,135,618	33,227
Toronto	480	1,143,868	1,860,924	560	1,291,484	64,988
Kingston	14	13,549	19,516	35	118,020	42
Prescott, Ogdensburg & Brockville.....	39	33,146	66,793	82	129,668	—
Oswego and South	439	304,599	289,409	501	454,403	408,991
Other Lake Ontario Ports	277	313,270	585,263	254	268,489	96,221
Montreal and below	1,027	1,175,816	2,360,777	832	953,630	644,993
Other Ports below Prescott	16	21,319	46,281	18	21,634	—
Welland Ship Canal	254	349,864	565,329	318	489,867	15,204
Total	2,845	4,478,743	8,131,817	2,927	4,863,213	1,263,666
Welland Ship Canal and						
Hamilton	3	2,772	3,060	18	17,852	3,192
Toronto	26	23,146	260	39	51,378	41,213
Kingston	1	38	—	—	—	—
Prescott, Ogdensburg & Brockville.....	2	2,198	—	5	9,783	—
Oswego and South	21	30,408	685	7	6,827	4,000
Other Lake Ontario Ports	55	44,127	—	46	29,825	52,785
Montreal and below	82	92,957	172,897	133	167,434	257,720
Other Ports below Prescott	1	1,084	907	—	—	—
Total	191	196,730	177,809	248	283,099	358,910
Grand total	4,177	8,300,325	15,118,467	4,302	8,447,368	2,385,791

(1 ton = 2,000 lbs.)

TABLE 17. Grain Down-bound Through the Welland Ship Canal, 1954

	Wheat	Barley	Oats	Rye	Corn	Flaxseed	Total
Bushels							
Canadian Grain:							
From United States Ports to Canadian Ports:							
In Canadian vessels	206,000	—	—	—	264,000	—	470,000
From Canadian Ports to United States Ports:							
In Canadian vessels	42,266 ¹	375,625	223,588	—	—	—	641,479
From Canadian Ports to Canadian Ports:							
In Canadian vessels	88,728,200	48,007,000 ¹	16,441,470	1,728,000	1,912,392	6,530,857	163,347,919
United States Grain:							
From United States Ports to Canadian Ports:							
In Canadian vessels	614,066	310,500	—	—	5,114,107	1,956,714	7,995,387
From United States Ports to United States Ports:							
In Canadian vessels	—	—	—	—	—	—	—
In United States vessels.....	5,682,033	1,290,916	—	—	1,740,321	2,711,678 ¹	11,424,948
From Canadian Ports to Canadian Ports:							
In Canadian vessels	—	—	—	—	2,173,321	1,780,892	3,954,213
Total grain	95,272,565	49,984,041	16,665,058	1,728,000	11,204,141	12,980,141	187,833,946
Canadian grain in United States vessels.....	—	—	—	—	—	—	—
United States grain in Canadian vessels.....	614,066	310,500	—	—	7,287,428	3,737,606	11,949,600

1. Includes 255,733 Bushels of grain carried by other Foreign vessels.

TABLE 18. Through and Way Traffic on the St. Lawrence Canals during 1954

No.	Commodity	Canada to Canada		Canada to U.S.		U.S. to U.S.	
		Up	Down	Up	Down	Up	Down
1	Passengers No.	-	-	-	-	4	-
	Agricultural products:	Tons	Tons	Tons	Tons	Tons	Tons
2	Barley	288	958,956	-	1,555	-	-
3	Corn	33,998	179,202	-	-	-	-
4	Oats	-	189,019	-	-	-	-
5	Rye	-	44,275	-	-	-	-
6	Flaxseed	-	255,560	-	-	-	1,490
7	Wheat	2,241	2,358,197	-	1,268	-	-
8	Other grains	-	28,073	-	430	-	-
9	Flour	-	7,010	-	11,701	-	-
10	Hay and Straw	-	-	-	-	-	-
11	Other mill products	250	14,132	-	-	-	-
12	Fruit and vegetables	75	-	-	-	-	-
13	Potatoes	876	-	-	-	-	-
14	Total	37,728	4,034,424	-	14,954	-	1,490
	Animal products:						
15	Fish	239	-	2,645	-	-	-
16	Dressed meats	-	-	-	-	-	-
17	Other packing-house products	-	-	-	-	-	-
18	All other animal products	725	-	-	-	-	-
19	Total	964	-	2,645	-	-	-
	Manufactures and miscellaneous:						
20	Gasoline	39,800	82,936	-	-	-	-
21	Petroleum and other oils	873,017	83,688	-	800	2,745	37,633
22	Agricultural implements	-	-	-	-	-	-
23	Cement, brick, plaster	10,476	1,893	4,034	-	-	-
24	Iron, pig and bloom	-	-	-	-	-	-
25	Iron and steel, other	8	21,725	1,151	-	1,962	-
26	Sugar	-	30	-	-	7,512	-
27	Salt	-	24,995	-	-	-	-
28	Beverages	-	-	-	-	-	-
29	Autos and parts	77	416	-	677	171	-
30	Paper	-	5,993	219,351	3,585	289	-
31	Wood pulp	1,800	-	21,597	-	20,424	-
32	Total	925,178	221,676	246,133	5,062	33,103	37,633
	Forest products:						
33	Pulpwood	213,960	-	279,068	-	-	-
34	Logs-posts-poles-piling	-	-	-	-	-	-
35	Firewood	-	-	-	-	-	-
36	Lumber-mill-cooperage stock	31,723	561	-	-	-	-
37	Other forest products	-	-	-	-	-	-
38	Total	245,683	561	279,068	-	-	-
	Mine products:						
39	Hard coal	2,365	-	-	-	-	-
40	Soft coal	95,365	200	-	-	-	-
41	Coke	-	1,685	-	6,465	-	-
42	Copper ore	-	-	-	-	-	-
43	Iron ore	64,156	-	233,240	-	-	-
44	Other ore	29,470	-	4,520	350	1,500	-
45	Sand, gravel and stone	2,430	201,368	-	-	1,311	-
46	Total	193,786	203,253	237,760	6,815	2,811	-
47	All other freight	527,056	305,257	15,468	69,627	125,579	198,628
48	Grand total	1,930,395	4,765,171	781,074	96,458	161,493	237,751

Tons (2,000 lbs.) of cargo. Number of pleasure craft lockages in 1954 = 759.

TABLE 18. Through and Way Traffic on the St. Lawrence Canals during 1954

U.S. to Canada		Total		Grand total		Compared with 1953		No.
Up	Down	Up	Down	1954	1953	Increase	Decrease	
-	-	4	-	4	14	-	10	1
Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	
-	2,544	288	963,055	963,343	1,607,132	-	643,789	2
-	67,117	33,998	246,319	280,317	220,486	59,831	-	3
-	-	-	189,019	189,019	185,476	3,543	-	4
-	-	-	44,275	44,275	73,117	-	28,842	5
-	5,297	-	262,347	262,347	122,874	139,473	-	6
-	10,762	2,241	2,370,227	2,372,468	2,081,349	291,119	-	7
-	-	-	28,503	28,503	26,915	1,588	-	8
-	-	-	18,711	18,711	14,463	4,248	-	9
-	-	-	-	-	253	-	253	10
-	870	250	15,002	15,252	33,248	-	17,996	11
1,307	-	1,382	-	1,382	420	962	-	12
-	-	876	-	878	-	876	-	13
1,307	86,590	39,035	4,137,458	4,176,493	4,365,733	-	189,240	14
-	-	2,884	-	2,884	170	2,714	-	15
-	-	-	-	-	-	-	-	16
-	-	-	-	-	2,158	-	2,158	17
-	-	725	-	725	188	537	-	18
-	-	3,609	-	3,609	2,516	1,093	-	19
-	-	39,800	82,936	122,736	103,158	19,578	-	20
1,232	2,000	876,994	124,121	1,001,115	1,156,334	-	155,219	21
-	-	-	-	-	-	-	-	22
-	-	14,510	1,893	16,403	26,656	-	10,253	23
-	-	-	-	-	34,686	-	34,686	24
4,362	18,741	7,483	40,466	47,949	124,847	-	76,898	25
-	-	7,512	30	7,542	6,838	704	-	26
-	65,803	-	90,798	90,798	80,993	9,805	-	27
-	1	-	1	1	80	-	79	28
3	74	251	1,167	1,418	4,194	-	2,776	29
-	-	219,640	9,578	229,218	236,802	-	7,584	30
-	-	43,821	-	43,821	69,319	-	25,498	31
5,597	86,619	1,210,011	350,990	1,561,001	1,843,907	-	282,906	32
-	-	493,028	-	493,028	494,616	-	1,588	33
-	-	-	-	-	-	-	-	34
-	-	-	-	-	-	-	-	35
-	-	31,723	561	32,284	35,178	-	2,894	36
-	-	-	-	-	12	-	12	37
-	-	524,751	561	525,312	529,806	-	4,494	38
2,600	-	4,965	-	4,965	19,537	-	14,572	39
-	1,373,564	95,365	1,373,764	1,469,129	1,559,219	-	90,090	40
-	-	-	8,150	8,150	7,740	410	-	41
-	-	-	-	-	-	-	-	42
-	-	297,396	-	297,396	112,288	185,108	-	43
-	-	35,490	350	35,840	64,314	-	28,474	44
-	4,872	3,741	206,240	209,981	269,195	-	59,214	45
2,600	1,378,436	436,957	1,586,504	2,025,461	2,032,293	-	6,832	46
91,240	12,303	759,343	585,815	1,345,158	1,307,737	37,421	-	47
100,744	1,563,948	2,973,706	6,663,328	9,637,034	10,081,992	-	444,958	48

TABLE 19. Through Traffic on the St. Lawrence Canals during 1954

No.	Commodity	Canada to Canada		Canada to U.S.		U.S. to U.S.	
		Up	Down	Up	Down	Up	Down
1	Passengers No.	-	-	-	-	4	-
	Agricultural products:	Tons	Tons	Tons	Tons	Tons	Tons
2	Barley	-	958,956	-	1,555	-	-
3	Corn	33,998	139,146	-	-	-	-
4	Oats	-	189,019	-	-	-	-
5	Rye.....	-	44,275	-	-	-	-
6	Flaxseed	-	255,560	-	-	-	1,490
7	Wheat	-	2,358,197	-	1,268	-	-
8	Other grains	-	28,073	-	430	-	-
9	Flour	-	6,663	-	11,701	-	-
10	Hay and Straw.....	-	-	-	-	-	-
11	Other mill products	-	14,132	-	-	-	-
12	Fruit and vegetables	-	-	-	-	-	-
13	Potatoes	876	-	-	-	-	-
14	Total	34,874	3,994,021	-	14,954	-	1,490
	Animal products:						
15	Fish	139	-	2,645	-	-	-
16	Dressed meats	-	-	-	-	-	-
17	Other packing-house products	-	-	-	-	-	-
18	All other animal products	725	-	-	-	-	-
19	Total	864	-	2,645	-	-	-
	Manufactures and miscellaneous:						
20	Gasoline	31,938	71,875	-	-	-	-
21	Petroleum and other oils.....	822,741	83,529	-	800	2,745	-
22	Agricultural implements	-	-	-	-	-	-
23	Cement, brick, plaster.....	10,476	-	4,034	-	-	-
24	Iron, pig and bloom	-	-	-	-	-	-
25	Iron and steel, other	-	13,508	1,151	-	1,962	-
26	Sugar	-	30	-	-	7,512	-
27	Salt.....	-	5,995	-	-	-	-
28	Beverages	-	-	-	-	-	-
29	Autos and parts	77	416	-	677	171	-
30	Paper	-	5,993	219,351	3,370	289	-
31	Wood pulp	1,800	-	21,597	-	20,424	-
32	Total	867,032	181,346	246,133	4,847	33,103	-
	Forest products:						
33	Pulpwood.....	213,960	-	195,868	-	-	-
34	Logs-posts-poles-piling	-	-	-	-	-	-
35	Firewood	-	-	-	-	-	-
36	Lumber-mill-cooperage stock	-	1	-	-	-	-
37	Other forest products.....	-	-	-	-	-	-
38	Total	213,960	1	195,868	-	-	-
	Mine products:						
39	Hard coal	2,365	-	-	-	-	-
40	Soft coal	2,700	200	-	-	-	-
41	Coke.....	-	-	-	6,465	-	-
42	Copper ore.....	-	-	-	-	-	-
43	Iron ore	64,156	-	233,240	-	-	-
44	Other ore	29,470	-	4,520	350	1,500	-
45	Sand, gravel and stone	-	-	-	-	1,311	-
46	Total	98,691	200	237,760	8,815	2,811	-
47	All other freight	499,831	249,560	13,213	69,627	125,579	196,628
48	Grand total	1,715,252	4,425,128	695,619	96,243	161,493	200,118

Tons (2,000 lbs.) of cargo.

TABLE 19. Through Traffic on the St. Lawrence Canals during 1954

U.S. to Canada		Total		Grand total		Compared with 1953		No.
Up	Down	Up	Down	1954	1953	Increase	Decrease	
Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	
-	-	4	-	4	-	4	-	1
-	2,544	-	963,055	963,055	1,591,990	-	628,935	2
-	48,739	33,998	187,885	221,883	153,535	63,348	-	3
-	-	-	189,019	189,019	185,476	3,543	-	4
-	-	-	44,275	44,275	73,117	-	28,842	5
-	5,297	-	262,347	262,347	122,874	139,473	-	6
-	10,762	-	2,370,227	2,370,227	2,081,349	288,878	-	7
-	-	-	28,503	28,503	26,915	1,588	-	8
-	-	-	18,364	18,364	13,779	4,585	-	9
-	-	-	-	-	-	-	-	10
-	870	-	15,002	15,002	33,248	-	18,246	11
-	-	-	-	-	-	-	-	12
-	-	876	-	876	-	876	-	13
-	68,212	34,874	4,078,677	4,113,551	4,287,283	-	173,732	14
-	-	2,784	-	2,784	160	2,624	-	15
-	-	-	-	-	-	-	-	16
-	-	-	-	-	2,158	-	2,158	17
-	-	725	-	725	188	537	-	18
-	-	3,509	-	3,509	2,506	1,003	-	19
-	-	31,938	71,875	103,813	80,449	23,364	-	20
1,232	2,000	326,715	86,329	913,047	1,086,721	-	173,674	21
-	-	-	-	-	-	-	-	22
-	-	14,510	-	14,510	22,341	-	7,831	23
-	-	-	-	-	34,686	-	34,686	24
4,362	18,741	7,475	32,249	39,724	124,407	-	84,683	25
-	-	7,512	30	7,542	6,838	704	-	26
-	54,105	-	60,100	60,100	54,283	5,817	-	27
-	1	-	1	1	80	-	-	28
3	74	251	1,167	1,418	4,191	-	2,773	29
-	-	219,640	9,303	229,003	235,380	-	6,377	30
-	-	43,821	-	43,821	69,319	-	25,498	31
5,597	74,921	1,151,865	261,114	1,412,979	1,718,695	-	305,716	32
-	-	409,828	-	409,828	409,216	612	-	33
-	-	-	-	-	-	-	-	34
-	-	-	-	-	-	-	-	35
-	-	-	1	1	-	1	-	36
-	-	-	-	-	12	-	12	37
-	-	409,828	1	409,829	409,228	601	-	38
2,600	-	4,965	-	4,965	19,537	-	14,572	39
-	1,193,899	2,700	1,194,099	1,196,799	1,243,421	-	46,622	40
-	-	-	6,465	6,465	7,740	-	1,275	41
-	-	-	-	-	-	-	-	42
-	-	297,396	-	297,396	112,288	185,108	-	43
-	-	35,490	350	35,840	64,314	-	28,474	44
-	4,872	1,311	4,872	6,183	2,400	3,783	-	45
2,600	1,198,771	341,862	1,205,786	1,547,648	1,449,700	97,948	-	46
76,484	12,303	715,107	530,118	1,245,225	1,202,347	42,878	-	47
84,681	1,354,207	2,557,045	6,075,696	8,732,741	9,069,759	-	337,018	48

TABLE 20. Way Traffic on the St. Lawrence Canals during 1954

No.	Commodity	Canada to Canada		Canada to U. S.		U. S. to U. S.	
		Up	Down	Up	Down	Up	Down
1	Passengers No.	-	-	-	-	-	-
	Agricultural products:	Tons	Tons	Tons	Tons	Tons	Tons
2	Barley	233	-	-	-	-	-
3	Corn	-	40,856	-	-	-	-
4	Oats	-	-	-	-	-	-
5	Rye	-	-	-	-	-	-
6	Flaxseed	-	-	-	-	-	-
7	Wheat	2,241	-	-	-	-	-
8	Other grains	-	-	-	-	-	-
9	Flour	-	347	-	-	-	-
10	Hay and straw	-	-	-	-	-	-
11	Other mill products	250	-	-	-	-	-
12	Fruit and vegetables	75	-	-	-	-	-
13	Potatoes	-	-	-	-	-	-
14	Total	2,854	40,403	-	-	-	-
	Animal products:						
15	Fish	100	-	-	-	-	-
16	Dressed meats	-	-	-	-	-	-
17	Other packing-house products	-	-	-	-	-	-
18	All other animal products	-	-	-	-	-	-
19	Total	100	-	-	-	-	-
	Manufactures and miscellaneous:						
20	Gasoline	7,862	11,061	-	-	-	-
21	Petroleum and other oils	50,276	159	-	-	-	37,633
22	Agricultural implements	-	-	-	-	-	-
23	Cement, brick, plaster	-	1,893	-	-	-	-
24	Iron, pig and bloom	-	-	-	-	-	-
25	Iron and steel, other	8	8,217	-	-	-	-
26	Sugar	-	-	-	-	-	-
27	Salt	-	19,000	-	-	-	-
28	Beverages	-	-	-	-	-	-
29	Autos and parts	-	-	-	-	-	-
30	Paper	-	-	-	215	-	-
31	Wood pulp	-	-	-	-	-	-
32	Total	58,146	40,330	-	215	-	37,633
	Forest products:						
33	Pulpwood	-	-	83,200	-	-	-
34	Logs-posts-poles-pling	-	-	-	-	-	-
35	Firewood	-	-	-	-	-	-
36	Lumber-mill-cooperage stock	31,723	560	-	-	-	-
37	Other forest products	-	-	-	-	-	-
38	Total	31,723	560	83,200	-	-	-
	Mine products:						
39	Hard coal	-	-	-	-	-	-
40	Soft coal	92,665	-	-	-	-	-
41	Coke	-	1,685	-	-	-	-
42	Copper ore	-	-	-	-	-	-
43	Iron ore	-	-	-	-	-	-
44	Other ore	-	-	-	-	-	-
45	Sand, gravel and stone	2,430	201,368	-	-	-	-
46	Total	95,095	203,053	-	-	-	-
47	All other freight	27,225	55,697	2,255	-	-	-
48	Grand total	215,143	340,043	85,455	215	-	37,633

Tons (2,000 lbs.) of cargo.

TABLE 20. Way Traffic on the St. Lawrence Canals during 1954

U. S. to Canada		Total		Grand total		Compared with 1953		No.
Up	Down	Up	Down	1954	1953	Increase	Decrease	
-	-	-	-	-	14	-	14	1
Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	
-	-	288	-	288	15,142	-	14,854	2
-	18,378	-	58,434	58,434	61,951	-	3,517	3
-	-	-	-	-	-	-	-	4
-	-	-	-	-	-	-	-	5
-	-	-	-	-	-	-	-	6
-	-	2,241	-	2,241	-	2,241	-	7
-	-	-	-	-	-	-	-	8
-	-	-	347	347	684	-	337	9
-	-	-	-	-	253	-	253	10
-	-	250	-	250	-	250	-	11
1,307	-	1,382	-	1,382	420	962	-	12
-	-	-	-	-	-	-	-	13
1,307	18,378	4,161	58,781	62,942	78,450	-	15,508	14
-	-	100	-	100	10	90	-	15
-	-	-	-	-	-	-	-	16
-	-	-	-	-	-	-	-	17
-	-	-	-	-	-	-	-	18
-	-	100	-	100	10	90	-	19
-	-	7,862	11,061	18,923	22,709	-	3,786	20
-	-	50,276	37,792	88,068	69,613	18,455	-	21
-	-	-	-	-	-	-	-	22
-	-	-	1,893	1,893	4,315	-	2,422	23
-	-	-	-	-	-	-	-	24
-	-	8	8,217	8,225	440	7,785	-	25
-	-	-	-	-	-	-	-	26
-	11,698	-	30,698	30,698	26,710	3,988	-	27
-	-	-	-	-	-	-	-	28
-	-	-	-	-	3	-	3	29
-	-	-	215	215	1,422	-	1,207	30
-	-	-	-	-	-	-	-	31
-	11,698	58,146	89,876	148,022	125,212	22,810	-	32
-	-	83,200	-	83,200	85,400	-	2,200	33
-	-	-	-	-	-	-	-	34
-	-	-	-	-	-	-	-	35
-	-	31,723	560	32,283	35,178	-	2,895	36
-	-	-	-	-	-	-	-	37
-	-	114,923	560	115,483	120,573	-	5,095	38
-	-	-	-	-	-	-	-	39
-	179,665	92,665	179,665	272,330	315,798	-	43,468	40
-	-	-	1,685	1,685	-	1,685	-	41
-	-	-	-	-	-	-	-	42
-	-	-	-	-	-	-	-	43
-	-	-	-	-	-	-	-	44
-	-	2,430	201,368	203,798	266,795	-	62,997	45
-	179,665	95,095	382,718	477,813	582,593	-	104,780	46
14,756	-	44,236	55,697	99,933	105,390	-	5,457	47
16,063	209,741	316,661	587,632	904,293	1,012,233	-	107,940	48

Tons (2,000 lbs.) of cargo.

TABLE 21. Traffic on the Richelieu River Canal during 1954

No.	Commodity	Canada to Canada		Canada to U.S.		U.S. to U.S.	
		Up	Down	Up	Down	Up	Down
1	Passengers No.	68	68	-	-	-	-
	Agricultural products:	Tons	Tons	Tons	Tons	Tons	Tons
2	Fruit and vegetables	-	-	-	-	-	-
3	Total	-	-	-	-	-	-
	Manufactures and miscellaneous:						
4	Paper	-	-	28,565	-	-	-
5	Total	-	-	28,565	-	-	-
	Mine products:						
6	Hard coal	-	-	-	-	-	-
7	Total	-	-	-	-	-	-
8	All other freight	56,600 ¹	4,841	-	434	-	-
9	Grand total	56,600	4,841	28,565	434	-	-

1. Includes 56,595 tons of fertilizer.

TABLE 22. Traffic on the Ottawa River Canals during 1954

No.	Commodity	Canada to Canada		Canada to U.S.		U.S. to U.S.	
		Up	Down	Up	Down	Up	Down
1	Passengers No.	-	-	-	-	-	-
	Manufactures and miscellaneous:	Tons	Tons	Tons	Tons	Tons	Tons
2	Paper	-	-	-	215	-	-
3	Total	-	-	-	215	-	-
	Mine products:						
4	Soft coal	445	-	-	-	-	-
5	Sand, gravel and stone	-	190,100	-	-	-	-
6	Total	445	190,100	-	-	-	-
7	All other freight	-	50	-	-	-	-
8	Grand total	445	190,150	-	215	-	-

Number of pleasure craft lockages in 1954 = 5,418.

TABLE 23. Traffic on the Murray Canal during 1954

No.	Commodity	Canada to Canada		Canada to U.S.		U.S. to U.S.	
		Up	Down	Up	Down	Up	Down
1	Passengers No.	-	-	-	-	-	-
	Manufactures and miscellaneous:	Tons	Tons	Tons	Tons	Tons	Tons
2	Petroleum and other oils	-	-	-	-	-	-
3	Total	-	-	-	-	-	-
4	All other freight	72	200	-	-	-	-
5	Grand total	72	200	-	-	-	-

Tons (2,000 lbs.) of cargo. Number of pleasure craft lockages in 1954 = 1,220.

TABLE 21. Traffic on the Richelieu River Canal during 1954

U.S. to Canada		Total		Grand total		Compared with 1953		No.
Up	Down	Up	Down	1954	1953	Increase	Decrease	
-	-	68	68	136	11	125	-	1
Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	
-	1,307	-	1,307	1,307	420	887	-	2
-	1,307	-	1,307	1,307	420	887	-	3
-	-	28,565	-	28,565	24,500	4,065	-	4
-	-	28,565	-	28,565	24,500	4,065	-	5
-	3,611	-	3,611	3,611	-	3,611	-	6
-	3,611	-	3,611	3,611	-	3,611	-	7
-	14,080 ²	56,600	19,355	75,955	69,459	6,496	-	8
-	18,998	85,165	24,273	109,438	94,379	15,059	-	9

2. Includes 5,347 tons of fertilizer.

TABLE 22. Traffic on the Ottawa River Canals during 1954

U.S. to Canada		Total		Grand total		Compared with 1953		No.
Up	Down	Up	Down	1954	1953	Increase	Decrease	
-	-	-	-	-	6	-	6	1
Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	
-	-	-	215	215	1,047	-	832	2
-	-	-	215	215	1,047	-	832	3
-	-	445	-	445	785	-	340	4
-	-	-	190,100	190,100	241,200	-	51,100	5
-	-	445	190,100	190,545	241,935	-	51,440	6
-	-	-	50	50	-	50	-	7
-	-	445	190,365	190,810	243,032	-	52,222	8

TABLE 23. Traffic on the Murray Canal during 1954

U.S. to Canada		Total		Grand total		Compared with 1953		No.
Up	Down	Up	Down	1954	1953	Increase	Decrease	
-	-	-	-	-	9	-	9	1
Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	
-	-	-	-	-	500	-	500	2
-	-	-	-	-	500	-	500	3
-	-	72	200	272	175	96	-	4
-	-	72	200	272	670	-	404	5

TABLE 24. Traffic on the St. Peter's Canal during 1954

No.	Commodity	Canada to Canada		Canada to U. S.		U. S. to U. S.	
		Up	Down	Up	Down	Up	Down
1	Passengers..... No.	20	9	-	-	-	-
	Agricultural products:	Tons	Tons	Tons	Tons	Tons	Tons
2	Oats.....	-	-	-	-	-	-
3	Fruit and vegetables.....	71	-	-	-	-	-
4	Potatoes.....	663	25	-	-	-	-
5	Total.....	734	25	-	-	-	-
	Animal products:						
6	Fish.....	20	1,393	-	-	-	-
7	Total.....	20	1,393	-	-	-	-
	Manufactures and miscellaneous:						
8	Gasoline.....	52	-	-	-	-	-
9	Petroleum and other oils.....	500	-	-	-	-	-
10	Iron and steel, other.....	-	55	-	-	-	-
11	Total.....	552	55	-	-	-	-
	Forest products:						
12	Firewood.....	-	7	-	-	-	-
13	Lumber-mill-cooperage stock.....	-	-	-	-	-	-
14	Total.....	-	7	-	-	-	-
	Mine products:						
15	Soft coal.....	-	116	-	-	-	-
16	Coke.....	-	-	-	-	-	-
17	Sand, gravel and stone.....	-	40	-	-	-	-
18	Total.....	-	156	-	-	-	-
19	All other freight.....	288	1	-	-	-	-
20	Grand total.....	1,594	1,637	-	-	-	-

TABLE 25. Traffic on the St. Andrew's Canal during 1954

No.	Commodity	Canada to Canada		Canada to U. S.		U. S. to U. S.	
		Up	Down	Up	Down	Up	Down
1	Passengers..... No.	109	121	-	-	-	-
	Agricultural products:	Tons	Tons	Tons	Tons	Tons	Tons
2	Oats.....	-	2	-	-	-	-
3	Flour.....	-	25	-	-	-	-
4	Hay and Straw.....	-	32	-	-	-	-
5	Other mill products.....	-	-	-	-	-	-
6	Fruit and vegetables.....	31	4	-	-	-	-
7	Potatoes.....	-	-	-	-	-	-
8	Total.....	31	63	-	-	-	-
	Animal products:						
9	Fish.....	2,120	-	-	-	-	-
10	Dressed meats.....	-	-	-	-	-	-
11	All other animal products.....	-	-	-	-	-	-
12	Total.....	2,120	-	-	-	-	-
	Manufactures and Miscellaneous:						
13	Gasoline.....	-	1,216	-	-	-	-
14	Petroleum and other oils.....	-	12	-	-	-	-
15	Agricultural implements.....	-	-	-	-	-	-
16	Cement, brick, plaster.....	-	197	-	-	-	-
17	Iron and steel, other.....	121	191	-	-	-	-
18	Salt.....	-	-	-	-	-	-
19	Beverages.....	-	144	-	-	-	-
20	Autos and parts.....	33	59	-	-	-	-
21	Total.....	154	1,819	-	-	-	-
	Forest products:						
22	Firewood.....	-	-	-	-	-	-
23	Lumber-mill-cooperage stock.....	4	66	-	-	-	-
24	Total.....	4	66	-	-	-	-
	Mine products:						
25	Other Ore.....	-	-	-	-	-	-
26	Total.....	-	-	-	-	-	-
27	All other freight.....	120	1,653	-	-	-	-
28	Grand total.....	2,429	3,601	-	-	-	-

Tons (2,000 lbs.) of cargo. Number of pleasure craft lockages in 1954 = 319.

TABLE 24. Traffic on the St. Peter's Canal during 1954

U. S. to Canada		Total		Grand total		Compared with 1953		No.
Up	Down	Up	Down	1954	1953	Increase	Decrease	
-	-	20	9	29	54	-	25	1
Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	
-	-	-	-	-	1	-	1	2
-	-	71	-	71	176	-	105	3
-	-	663	25	688	1,445	-	757	4
-	-	734	25	759	1,622	-	863	5
-	-	20	1,393	1,413	425	988	-	6
-	-	20	1,393	1,413	425	988	-	7
-	-	52	-	52	-	52	-	8
-	-	500	-	500	-	500	-	9
-	-	-	55	55	-	55	-	10
-	-	552	55	607	-	607	-	11
-	-	-	7	7	-	7	-	12
-	-	-	-	-	20	-	20	13
-	-	-	7	7	20	-	13	14
-	-	-	116	116	780	-	664	15
-	-	-	-	-	100	-	100	16
-	-	-	40	40	75	-	35	17
-	-	-	156	156	955	-	799	18
-	-	288	1	289	819	-	530	19
-	-	1,594	1,637	3,231	3,841	-	610	20

TABLE 25. Traffic on the St. Andrew's Canal during 1954

U. S. to Canada		Total		Grand total		Compared with 1953		No.
Up	Down	Up	Down	1954	1953	Increase	Decrease	
-	-	109	121	230 ¹	305	-	75	1
Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	
-	-	-	2	2	3	-	1	2
-	-	-	25	25	22	3	-	3
-	-	-	32	32	23	9	-	4
-	-	-	-	-	12	-	12	5
-	-	31	4	35	34	1	-	6
-	-	-	-	-	3	-	3	7
-	-	31	63	94	97	-	3	8
-	-	2,120	-	2,120	1,884	236	-	9
-	-	-	-	-	10	-	10	10
-	-	-	-	-	15	-	15	11
-	-	2,120	-	2,120	1,909	211	-	12
-	-	-	1,216	1,216	870	346	-	13
-	-	-	12	12	37	-	25	14
-	-	-	-	-	2	-	2	15
-	-	-	197	197	127	70	-	16
-	-	121	191	312	202	110	-	17
-	-	-	-	-	1	-	1	18
-	-	-	144	144	178	-	34	19
-	-	33	59	92	112	-	20	20
-	-	154	1,819	1,973	1,529	444	-	21
-	-	-	-	-	651	-	651	22
-	-	4	66	70	10,256	-	10,186	23
-	-	4	66	70	10,907	-	10,837	24
-	-	-	-	-	3	-	3	25
-	-	-	-	-	3	-	3	26
-	-	120	1,653	1,773	1,370	403	-	27
-	-	2,429	3,601	6,030	15,815	-	9,785	28

1. Exclusive of 1,131 passengers carried in pleasure craft.

TABLE 26. Traffic on the Rideau Canal during 1954

No.	Commodity	Canada to Canada		Canada to U.S.		U.S. to U.S.	
		Up	Down	Up	Down	Up	Down
1	Passengers No.	379	369	-	-	-	-
	Manufactures and miscellaneous:	Tons	Tons	Tons	Tons*	Tons	Tons
2	Gasoline	1	-	-	-	-	-
3	Petroleum and other oils	1	-	-	-	-	-
4	Cement, brick, plaster	60	-	-	-	-	-
5	Iron, pig and bloom	-	-	-	-	-	-
6	Iron and steel, other	23	-	-	-	-	-
7	Total	85	-	-	-	-	-
	Forest products:						
8	Logs-posts-poles-piling	-	25	-	-	-	-
9	Lumber-mill-cooperage stock	49	-	-	-	-	-
10	Total	49	25	-	-	-	-
	Mine products:						
11	Soft coal	40	10	-	-	-	-
12	Sand, gravel and stone	160	1,093	-	-	-	-
13	Total	200	1,103	-	-	-	-
14	All other freight	23	5	-	-	-	-
15	Grand total	357	1,133	-	-	-	-

Number of pleasure craft in 1954 = 942, Number of lockages = 23,847.
Lake Ontario towards Ottawa River is classed as Down.

TABLE 27. Traffic on the Trent Canal during 1954

No.	Commodity	Canada to Canada		Canada to U.S.		U.S. to U.S.	
		Up	Down	Up	Down	Up	Down
	Agricultural products:	Tons	Tons	Tons	Tons	Tons	Tons
1	Oats	-	-	-	-	-	-
2	Hay and straw	-	-	-	-	-	-
3	Total	-	-	-	-	-	-
	Manufactures and miscellaneous:						
4	Gasoline	14	38	-	-	-	-
5	Petroleum and other oils	11	12	-	-	-	-
6	Cement, brick, plaster	-	50	-	-	-	-
7	Total	25	100	-	-	-	-
	Forest products:						
8	Lumber-mill-cooperage stock	5	5	-	-	-	-
9	Total	5	5	-	-	-	-
10	All other freight	15	20	-	-	-	-
11	Grand total	45	125	-	-	-	-

Number of pleasure craft lockages in 1954 = 20,510. One craft through one lock station recorded as "1".
Lake Huron towards Lake Ontario is classed as Down.

TABLE 26. Traffic on the Rideau Canal during 1954

U.S. to Canada		Total		Grand Total		Compared with 1953		No.
Up	Down	Up	Down	1954	1953	Increase	Decrease	
Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	
-	-	379	399	778 ¹	1,541	-	763	1
-	-	1	-	1	2	-	1	2
-	-	1	-	1	2	-	1	3
-	-	60	-	60	23	37	-	4
-	-	-	-	-	1	-	1	5
-	-	23	-	33	13	10	-	6
-	-	85	-	85	41	44	-	7
-	-	-	25	25	-	25	-	8
-	-	49	-	49	339	-	290	9
-	-	49	25	74	339	-	265	10
-	-	40	10	50	95	-	45	11
-	-	160	1,093	1,253	909	344	-	12
-	-	200	1,103	1,303	1,004	299	-	13
-	-	23	5	28	147	-	119	14
-	-	357	1,133	1,490	1,531	-	41	15

1. Exclusive of 23,976 passengers on sight seeing pleasure boat cruises.
Exclusive of 63,685 passengers carried in pleasure craft. One passenger through one lock station recorded as "1".

TABLE 27. Traffic on the Trent Canal during 1954

U.S. to Canada		Total		Grand Total		Compared with 1953		No.
Up	Down	Up	Down	1954	1953	Increase	Decrease	
Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	
-	-	-	-	-	3	-	3	1
-	-	-	-	-	8	-	8	2
-	-	-	-	-	11	-	11	3
-	-	14	38	52	48	4	-	4
-	-	11	12	23	23	-	-	5
-	-	-	50	50	-	50	-	6
-	-	25	100	125	71	54	-	7
-	-	5	5	10	-	10	-	8
-	-	5	5	10	-	10	-	9
-	-	15	20	35	157	-	122	10
-	-	45	125	170	239	-	69	11

72,931 passengers carried in small boats.
One passenger through one lock recorded as "1".

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