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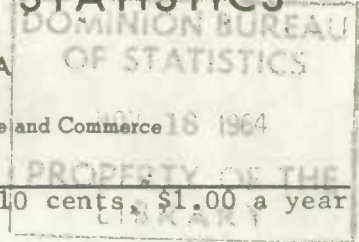
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## SUMMARY OF CANAL STATISTICS

SEPTEMBER 1964

The total volume of freight moved through Canadian canals in September 1964 increased 18.1 per cent, to 11,486,955 tons from 9,722,530 tons in September 1963. Increased transportation of iron ore and bituminous coal accounted for most of this increase. Vessel passages through Canadian canals increased to 2,983 from 2,919 and the registered net tonnage of these vessels rose 12.8 per cent, to 8,329,150 tons from 7,386,152 tons in September last year.

St. Lawrence Canals: Total freight transported increased 17.6 per cent to 4,758,045 tons from 4,045,247 tons in the corresponding month last year. Although wheat shipments declined to 947,648 tons from 1,052,473 tons, iron ore shipments increased to 1,472,105 tons from 1,168,004 tons. The movement of upbound freight was up to 2,269,088 tons from 1,805,612 tons while downbound traffic increased to 2,488,957 tons from 2,239,635 tons. During the month a total of 996 vessels of 3,190,194 registered net tons passed through the canals, compared with 997 vessels of 2,872,668 tons in September 1963.

Welland Canal: The tonnage of freight transported increased 17.7 per cent, to 6,325,985 tons from 5,374,281 tons in the previous September. Iron ore shipments increased to 2,185,530 tons from 1,726,162 tons and bituminous coal tonnage rose to 901,150 tons from 695,732 tons. Upbound traffic amounted to 2,165,073 tons compared to 1,778,372 tons while downbound freight increased to 4,160,912 tons from 3,595,909 tons. The number of vessel passages increased to 994 from 955 while the registered net tonnage of these vessels rose to 4,544,445 tons from 4,033,723 tons in the same month last year.

Sault St. Marie Canals - Canadian and United States Locks: Total freight moved through the combined system recorded a 0.9 per cent increase, to 12,338,998 tons from 12,229,897 tons carried in September 1963. Wheat shipments increased to 1,608,721 tons from 1,178,670 tons but iron ore shipments declined to 8,340,485 tons from 8,664,961 tons. Freight transported through the Canadian lock rose to 164,563 tons from 121,372 tons. Total upbound traffic through the combined system decreased to 1,506,737 tons from 1,614,403 tons but downbound freight increased to 10,832,261 tons from 10,615,494 tons. Vessel passages through the system totalled 2,314 compared to 2,232 in September 1963.

Transportation Section  
Public Finance and Transportation Division

November 1964  
8504-517

TABLE 1. Vessel Passages, Registered Net Tonnage, and Tonnage of Freight for All Canals

Canal	September 1964			1963	Cumulative	Cumulative
	Number of vessel passages	Registered net tonnage of vessels	Tonnage of freight	Tonnage of freight	Tonnage of freight 1964	Tonnage of freight 1963
St. Peter's Canal .....	54	950	34	83	271	539
Canso Canal .....	191	184,475	221,910	165,097	829,197	781,137
Richelieu River Canals .....	88	16,577	14,012	13,215	67,955	41,958
St. Lawrence Canals .....	996	3,190,194	4,758,045	4,045,247	28,975,518	21,740,319
Ottawa River Canals .....	43	2,752	1,690	2,183	11,581	3,597
Rideau Canal .....	2	32	-	-	-	-
Murray Canal .....	12	225	-	-	-	-
Trent Canal .....	46	1,282	9	9	56	48
Welland Canal .....	994	4,544,445	6,325,985	5,374,281	37,361,352	28,947,938
Sault Ste. Marie Canal - Can. lock ..	479	384,356	164,563	121,372	599,241	594,960
St. Andrew's Canal .....	78	3,862	707	1,043	2,521	2,831
Totals .....	2,983	8,329,150	11,486,955	9,722,530	67,847,692	52,113,327
Sault Ste. Marie Canal - U.S. locks	1,835	..	12,174,435	12,108,525	70,414,952	62,011,329

.. Figures not available.

TABLE 2. Tonnages of Freight Transported through the St. Lawrence Canals, by Commodity, by Direction, and by Type of Cargo, September 1964

Commodity	Upbound(1)		Downbound(1)		Total bulk	Total general	Grand Total
	Bulk	General	Bulk	General			
	tons						
Meat and meat preparations .....	-	1,014	-	4,507	-	5,521	5,521
Fish and marine animals .....	-	1,094	-	-	-	1,094	1,094
Butter .....	-	-	-	2,999	-	2,999	2,999
Milk powder .....	-	57	-	34,041	-	34,098	34,098
Barley .....	-	-	188,041	-	188,041	-	188,041
Corn .....	-	-	433,535	-	433,535	-	433,535
Oats .....	-	-	53,366	-	53,366	-	53,366
Rye .....	-	-	36,548	-	36,548	-	36,548
Wheat .....	-	-	947,648	-	947,648	-	947,648
Corn meal .....	-	-	9,045	-	9,045	-	9,045
Malt .....	-	-	7,618	-	7,618	-	7,618
Flour, wheat .....	-	-	37,032	-	37,032	-	37,032
Fruits and fruit preparations .....	-	5,841	-	2,759	-	8,600	8,600
Beans and peas, dried .....	131	-	13,747	-	13,378	-	13,378
Sugar, raw .....	13,046	-	-	-	13,046	-	13,046
Molasses, crude and refined .....	14,610	-	-	-	14,610	-	14,610
Lard .....	-	2	22,613	896	22,613	898	23,511
Soyabean oil cake and meal .....	-	-	22,599	-	22,599	-	22,599
Feeds of vegetable origin .....	-	-	2,027	-	2,027	-	2,027
Feeds of animal origin .....	-	-	6	307	6	307	313
Ale, beer, stout and porter .....	-	1,597	-	7	-	1,604	1,604
Wines .....	-	2,386	-	6	-	2,392	2,392
Distilled alcoholic beverages .....	-	5,489	-	33	-	5,522	5,522
Raw hides and skins .....	-	553	-	8,999	-	9,552	9,552
Flaxseed .....	-	-	52,770	-	52,770	-	52,770
Soyabeans .....	-	-	127,666	-	127,666	-	127,666
Rubber, natural .....	-	12,238	-	-	-	12,238	12,238
Logs and round timber .....	3,112	-	1,023	36	4,135	36	4,171
Pulpwood .....	45,117	-	-	-	45,117	-	45,117
Aluminum ore and concentrates .....	11,694	-	-	-	11,694	-	11,694
Iron ore .....	1,472,105	-	-	-	1,472,105	-	1,472,105
Iron and steel scrap .....	-	-	55,352	-	55,352	-	55,352
Non-ferrous metal scrap .....	-	113	-	1,543	-	1,656	1,656
Coal, bituminous .....	76,655	-	54,644	-	131,299	-	131,299
Petroleum, crude .....	13,976	-	9,919	-	23,895	-	23,895
Bentonite .....	1,914	-	-	-	1,914	-	1,914
Stone, crushed and broken .....	-	-	-	-	-	-	-
Gypsum .....	9,494	-	-	-	9,494	-	9,494
Phosphate rock .....	-	-	-	-	-	-	-
Salt .....	-	-	36,584	-	36,584	-	36,584
Sulphur .....	14,310	-	125	1,497	14,435	1,497	15,932
Wood fabricated materials .....	2,615	4,082	-	-	2,615	4,082	6,697
Woodpulp .....	6,484	-	740	-	7,224	-	7,224
Newsprint paper .....	-	29,567	-	-	-	29,567	29,567
Cordage, twine and rope .....	-	108	-	-	-	108	108

See note at end of table.

TABLE 2. Tonnages of Freight Transported through the St. Lawrence Canals, by Commodity, by Direction, and by Type of Cargo,

September 1964 - Concluded

Commodity	Upbound(1)		Downbound(1)		Total bulk	Total general	Grand total
	Bulk	General	Bulk	General			
	tons						
Animal oils and fats (ex. marine) ...	6	-	29,272	-	29,278	-	29,278
Soyabean oil .....	-	-	-	-	-	-	-
Fertilizers .....	41	17	-	4	41	21	62
Rubber, synthetic and reclaimed .....	-	350	-	4,211	-	4,561	4,561
Chemical products .....	19,489	3,600	9,161	16,209	28,650	19,809	48,459
Gasoline .....	18,860	-	-	-	18,860	-	18,860
Fuel oil .....	202,679	-	-	-	202,679	-	202,679
Lubricating oils and greases .....	3,130	239	1,266	600	4,396	839	5,235
Coke .....	-	-	29,574	-	29,574	-	29,574
Tar, pitch and creosote .....	-	-	313	22	313	22	335
Ferro-alloys .....	1,148	-	-	-	1,148	-	1,148
Pig iron .....	12,364	-	-	-	12,364	-	12,364
Iron and steel - Ingot, bar and rod .....	-	24,460	352	622	352	25,082	25,434
Steel - Plate, sheet and strip .....	-	24,287	-	13,075	-	37,362	37,362
Structural shapes and sheet piling ..	2,135	55,137	70	1,302	2,205	56,439	58,644
Iron and steel - Pipes and fittings ..	-	3,760	-	86	-	3,846	3,846
Wire and wire rope .....	-	10,155	-	7	-	10,162	10,162
Aluminum - Bar, ingot, pig and slab ..	1,824	3,111	1,065	836	2,889	3,947	6,836
Glass - Plate, sheet and structural ..	-	6,805	-	250	-	7,055	7,055
Machinery, equipment and parts .....	417	4,559	185	9,092	602	13,651	14,253
Motor vehicles and parts .....	-	12,610	-	13,554	-	26,164	26,164
Domestic package freight .....	30,791	-	53,704	-	84,495	-	84,495
<b>Total freight carried .....</b>	<b>2,015,500</b>	<b>253,588</b>	<b>2,345,589</b>	<b>143,368</b>	<b>4,361,089</b>	<b>396,956</b>	<b>4,758,045(2)</b>

(1) In previous years upbound was referred to as westbound, and downbound was referred to as eastbound.

(2) Includes 12,709 tons of non-toll traffic using only the Lachine canal.

TABLE 3. Tonnages of Freight Transported through the Welland Canal, by Commodity, by Direction, and by Type of Cargo,

September 1964

Commodity	Upbound(1)		Downbound(1)		Total bulk	Total general	Grand Total
	Bulk	General	Bulk	General			
	tons						
Meat and meat preparations .....	-	156	-	3,969	-	4,125	4,125
Fish and marine animals .....	-	965	-	-	-	965	965
Butter .....	-	-	-	2,999	-	2,999	2,999
Milk powder .....	-	-	-	34,218	-	34,218	34,218
Barley .....	-	-	214,988	-	214,988	-	214,988
Corn .....	-	-	463,705	-	463,705	-	463,705
Oats .....	-	-	71,820	-	71,820	-	71,820
Rye .....	-	-	36,548	-	36,548	-	36,548
Wheat .....	-	-	1,024,831	-	1,024,831	-	1,024,831
Corn meal .....	-	-	9,045	-	9,045	-	9,045
Malt .....	-	-	7,618	-	7,618	-	7,618
Flour, wheat .....	-	-	37,032	-	37,032	-	37,032
Fruits and fruit preparations .....	-	3,265	-	2,535	-	5,800	5,800
Beans and peas, dried .....	-	-	18,169	-	18,169	-	18,169
Sugar, raw .....	2,734	-	-	-	2,734	-	2,734
Molasses, crude and refined .....	10,919	-	-	-	10,919	-	10,919
Lard .....	-	-	22,613	896	22,613	896	23,509
Soyabean oil cake and meal .....	-	-	6,491	-	6,491	-	6,491
Feeds of vegetable origin .....	-	-	2,027	-	2,027	-	2,027
Feeds of animal origin .....	-	-	6	84	6	84	90
Ale, beer, stout and porter .....	-	1,224	-	7	-	1,231	1,231
Wines .....	-	1,705	-	6	-	1,711	1,711
Distilled alcoholic beverages .....	-	4,392	-	32	-	4,424	4,424
Raw hides and skins .....	-	496	-	7,160	-	7,656	7,656
Flaxseed .....	-	-	54,271	-	54,271	-	54,271
Soyabbeans .....	-	-	157,575	-	157,575	-	157,575
Rubber, natural .....	-	10,227	-	-	-	10,227	10,227
Logs and round timber .....	3,112	-	254	36	3,366	36	3,402
Pulpwood .....	42,989	-	7,829	-	50,818	-	50,818
Aluminum ore and concentrates .....	11,694	-	-	-	11,694	-	11,694
Iron ore .....	1,529,169	-	656,361	-	2,185,530	-	2,185,530
Iron and steel scrap .....	-	-	29,413	-	29,413	-	29,413
Non-ferrous metal scrap .....	-	113	-	556	-	669	669
Coal, bituminous .....	-	-	901,150	-	901,150	-	901,150
Bentonite .....	-	-	9,919	-	9,919	-	9,919
Sand and gravel .....	3,212	-	-	-	3,212	-	3,212

See note at end of table.



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TABLE 3. Tonnages of Freight Transported through the Welland Canal, by Commodity, by Direction, and by Type of Cargo, September 1964 - Concluded

Commodity	Upbound(1)		Downbound(1)		Total bulk	Total general	Grand total
	Bulk	General	Bulk	General			
tons							
Stone, crushed and broken .....	117,130	-	-	-	117,130	-	117,130
Salt .....	-	-	35,930	-	35,930	-	35,930
Sulphur .....	14,310	-	-	-	14,310	-	14,310
Wood fabricated materials .....	-	3,495	-	1,167	-	4,662	4,662
Woodpulp .....	6,484	-	740	-	7,224	-	7,224
Newsprint paper .....	-	43,355	-	-	-	43,355	43,355
Cordage, twine and rope .....	-	64	-	-	-	64	64
Animal oils and fats (Ex. marine) ...	6	-	27,227	-	27,233	-	27,233
Soyabean oil .....	-	-	-	-	-	-	-
Sodium products .....	-	109	7,531	1,334	7,531	1,443	8,974
Rubber, synthetic and reclaimed .....	-	99	-	4,191	-	4,290	4,290
Chemical products .....	23,458	1,374	13,585	11,453	37,043	12,827	49,870
Gasoline .....	12,494	-	5,825	-	18,319	-	18,319
Fuel oil .....	46,757	-	55,057	-	101,814	-	101,814
Lubricating oils and greases .....	7,113	239	1,266	600	8,379	839	9,218
Coke .....	-	-	29,771	-	29,771	-	29,771
Tar, pitch and creosote .....	7,926	-	2,812	22	10,738	22	10,760
Ferro-alloys .....	1,118	-	-	-	1,118	-	1,118
Pig iron .....	12,364	-	-	-	12,364	-	12,364
Iron and steel - Ingot, bar and rod .....	-	18,584	-	298	-	18,882	18,882
Steel - Plate, sheet and strip .....	-	15,870	-	7,274	-	23,144	23,144
Structural shapes and sheet piling ..	-	44,433	-	1,208	-	45,641	45,641
Iron and steel - Pipes and fittings ..	-	2,751	-	70	-	2,821	2,821
Wire and wire rope .....	-	9,147	-	7	-	9,154	9,154
Aluminum - Bar, ingot, pig and slab ..	1,065	3,094	1,065	107	2,130	3,201	5,331
Glass - Plate, sheet and structural ..	-	5,091	-	250	-	5,341	5,341
Cement .....	2,540	-	7,733	-	10,273	-	10,273
Machinery, equipment and parts .....	417	2,207	-	8,607	417	10,814	11,231
Motor vehicles and parts .....	-	8,383	-	12,810	-	21,193	21,193
Domestic package freight .....	35,843	-	28,885	-	64,728	-	64,728
Total freight carried .....	1,960,729	204,344	4,040,501	120,411	6,001,230	324,755	6,325,985

(1) In previous years upbound was referred to as westbound, and downbound was referred to as eastbound.

TABLE 4. Tonnages of Freight Transported through the Sault Ste. Marie Canals, by Commodity and by Direction, September 1964

Commodity	Upbound(1)		Downbound(1)		Total	
	Canadian lock	Canadian and U.S. locks	Canadian lock	Canadian and U.S. locks	Canadian lock	Canadian and U.S. locks
tons						
Barley .....	-	-	-	243,047	-	243,047
Corn .....	-	3,724	-	118,377	-	122,101
Oats .....	-	-	1,073	113,993	1,073	113,993
Rye .....	-	-	-	42,051	-	42,051
Wheat .....	-	6,000	4,723	1,602,721	4,723	1,608,721
Flour, wheat .....	-	-	-	4,549	-	4,549
Cereals, milled, n.e.s. ....	-	-	7,944	101,824	7,944	101,824
Flaxseed .....	-	-	-	53,434	-	53,434
Pulpwood, lumber and logs .....	882	882	-	24,848	882	25,730
Iron ore .....	-	-	-	8,340,485	-	8,340,485
Iron and steel scrap .....	-	-	2,380	25,497	2,380	25,497
Coal, anthracite .....	-	7,500	-	-	-	7,500
Coal, bituminous .....	2,004	1,092,550	-	-	2,004	1,092,550
Sand, gravel and stone .....	-	149,998	12,651	12,651	12,651	162,649
Non-metallic minerals, mfrs .....	-	28,936	-	-	-	28,936
Paper and woodpulp .....	-	-	26,468	37,241	26,468	37,241
Gasoline .....	8,478	8,478	9,249	9,249	17,727	17,727
Fuel oil .....	48,209	91,428	8,918	8,918	57,127	100,346
Coke .....	-	2,380	-	-	-	2,380
Other petroleum products .....	-	-	-	-	-	-
Pig iron .....	-	-	362	6,162	362	6,162
Iron and steel, manufactured .....	42	21,351	12,785	17,365	12,827	38,716
Cement .....	-	21,223	-	-	-	21,223
Motor vehicles .....	-	24	-	-	-	24
Miscellaneous freight .....	241	61,553	3,794	66,199	4,035	127,752
Domestic package freight .....	10,710	10,710	3,650	3,650	14,360	14,360
Total freight carried .....	70,566	1,506,737	93,997	10,832,261	164,563	12,338,998

(1) In previous years upbound was referred to as westbound, and downbound was referred to as eastbound.