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DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

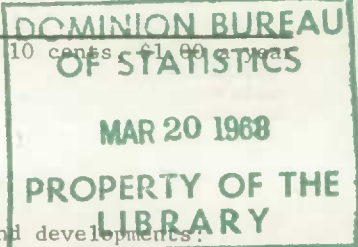
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SUMMARY OF CANAL STATISTICS

DECEMBER 1967



An analysis of December canal data revealed several important changes and developments:

Freight through the St. Lawrence Canals rose by approximately one-quarter to 1,292,560 tons from 1,044,132 tons in December 1966. However, influenced by the shipping strike and lower grain movements especially, the annual cargo volume dropped to 44,167,223 tons from 49,203,262 tons for 1966. Traffic through the Welland Canal followed a similar pattern with a gain to 2,384,676 tons from 1,945,443 tons in the corresponding month of 1966; year-end totals stood at 52,861,611 tons in 1967 and 59,180,439 tons in the previous year.

The closing date for the St. Lawrence Canals was December 15th, the same as in 1966; the last vessels through this Section of the Seaway were the Canadian craft "Carol Lake", (downbound) and the "Hutchcliffe Hall" (upbound). The Welland closed a day later, the last transits being by the "Fort York", (downbound) and the "Sterncliffe Hall" (upbound). The Canadian lock at Sault Ste. Marie ceased 1967 operations on December 14th with the upbound passage of the American tanker "Rocket"; the U.S. locks on the St. Mary's River were open until the last day of the year.

Among commodities carried during the year, iron ore maintained premier position with 16,382,342 tons through the St. Lawrence Canals and 16,545,092 tons through the Welland; compared to 1966, this represented a gain of approximately one million tons, and a loss of eight hundred thousand tons respectively for the two waterways. Leading to this development was Hamilton docks experiencing heavier traffic of inbound Canadian ore, and an easing of American imports.

Movements of grain, notably wheat and corn, were sharply reduced in 1967. Through the St. Lawrence Canals wheat shipments sank back to 6,837,429 tons from 11,198,694 tons recorded at this time in 1966.

Of other chief commodities, lakers transporting coal through the Welland Canal were more active, handling 8,654,482 tons in 1967 against 7,686,191 tons in 1966. Fuel oil through the St. Lawrence Canals contracted by slightly over five per cent to 1,982,018 tons, although gasoline traffic rose, and steel products, mostly upbound to the United States, increased to 3,318,813 tons.

Cargoes through all Canadian canals advanced to 3,800,283 tons from 3,125,981 tons in December 1966; however, the cumulative total fell back to 98,945,276 tons from 110,833,896 tons for the preceding year, which had established a record by being the first time that cargo tonnage exceeded one hundred million tons.

Transportation and Public Utilities Division
Transportation Section

March 1967
8702-517

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

Canal	December 1967			Tonnage of freight December 1966	Cumulative tonnage of freight	
	Number of vessel passages	Registered net tonnage of vessels	Tonnage of freight		1967	1966
Canoe Canal	100	84,396	98,515	101,613	916,843	1,154,561
St. Lawrence Canals	239	895,614	1,292,560	1,044,132	44,167,223	49,203,262
Welland Canal	298	1,608,815	2,384,676	1,945,443	52,861,611	59,180,439
Sault Ste. Marie Canal - Can. lock ...	47	72,803	24,532	34,791	967,174	1,262,682
All other canals	-	-	-	2	32,425	32,952
Totals	684	2,661,628	3,800,283	3,125,981	98,945,276	110,833,896
Sault St. Marie Canal - U.S. locks ...	713	..	3,059,991	2,935,467	88,366,249	102,389,719

.. Figures not available.

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

Commodity	December 1967			Total December 1966	Cumulative total	
	Upbound	Downbound	Total		1967	1966
	tons					
Meat, fresh, chilled or frozen	-	1,865	1,865	2,078	42,710	63,635
Milk powder	-	5,004	5,004	23	102,047	59,027
Barley	-	71,775	71,775	23,940	1,402,218	1,287,879
Corn	-	151,581	151,581	53,307	2,030,543	3,326,280
Oats	-	28,359	28,359	20,602	440,804	710,598
Rye	-	-	-	5,367	133,714	229,806
Wheat	-	203,423	203,423	352,325	6,837,429	11,198,694
Cereals, unmilled, n.e.s.	-	337	337	1,819	3,767	8,754
Corn meal and flour	-	7,883	7,883	1,085	120,624	73,859
Malt and malt flour	-	3,541	3,541	3,417	89,891	95,163
Wheat flour	-	4,129	4,129	13,605	109,614	173,355
Cereals, milled, n.e.s.	-	5,402	5,402	192	72,387	21,611
Fruits, preserved, not canned, n.e.s.	-	-	-	-	21,440	18,275
Fruits and preparations, canned (except infant foods)	-	286	286	88	27,848	24,458
Vegetables, dried	-	7,619	7,619	4,004	172,249	166,832
Vegetables and vegetable preparations, n.e.s.	-	673	673	289	51,154	40,083
Raw sugar	-	-	-	-	133,798	143,657
Molasses, crude	-	-	-	-	74,685	88,620
Cocoa and chocolate	-	15	15	6	37,422	20,009
Lard	-	2,563	2,563	1,937	63,051	47,818
Miscellaneous foods, food materials and food preparations, n.e.s.	10	1,266	1,276	1,538	35,921	14,022
Hulls, screenings, chaff and scourings	-	7,172	7,172	-	67,355	109,477
Concentrated and complete feeds	-	11,717	11,717	19,150	176,180	111,771
Soyabean oil meal and cake, n.e.s. ...	-	21,061	21,061	12,118	538,277	423,252
Oil seed meals and cake, n.e.s.	-	1,456	1,456	5,986	85,772	104,575
Brewers' and distillers' grains and solubles	-	305	305	-	5,255	12,042
Feeds of vegetable origin, n.e.s.	-	4,489	4,489	10,892	219,747	322,515
Ale, beer, stout and porter	-	5	5	-	12,970	12,173
Wines	-	-	-	-	32,993	39,521
Distilled alcoholic beverages	-	12	12	-	41,763	46,093
Raw hides and skins and undressed fur skins	-	8,038	8,038	4,887	84,183	85,189
Flaxseed	-	14,554	14,554	3,824	413,177	545,857
Rapeseed	-	-	-	2,267	23,722	27,956
Soyabeans	-	20,397	20,397	6,976	848,081	1,225,990
Rubber and allied gums, natural, and natural gums and resins	26	-	26	-	89,793	78,913
Logs	-	3,030	3,030	708	28,110	30,125
Pulpwood	-	-	-	-	284,334	277,966
Crude wood materials, n.e.s.	-	-	-	-	10	12,329
Alumina and bauxite ore	-	201	201	134	92,655	132,302
Iron ore, crude, and concentrates, calcined, roasted or treated	468,298	-	468,298	346,755	16,382,342	15,356,366

TABLE 2. Tonnage of Freight Transported through the St. Lawrence Canals, by Commodity, and by Direction - Continued

Commodity	December 1967			Total December 1966	Cumulative total	
	Upbound	Downbound	Total		1967	1966
	tons					
Manganese ore	-	73	73	-	197,100	254,441
Ores, concentrates and precipitates, n.e.s.	-	-	-	-	23,916	45,258
Iron and steel scrap	-	20,411	20,411	-	440,093	117,117
Non-ferrous and precious metal scrap	-	2,462	2,462	851	79,045	58,609
Slags, drosses and other by-products	-	195	195	173	18,231	22,968
Coal, bituminous, sub-bituminous, and lignite	-	23,749	23,749	-	1,171,277	1,198,455
Crude petroleum, petroleum tops and natural gasoline	-	-	-	-	166,875	80,047
Bentonite	-	718	718	341	115,169	95,625
China clay	-	-	-	-	34,885	21,292
Clay and other crude refractory materials, n.e.s.	-	659	659	-	35,748	37,959
Stone, crude, n.e.s.	-	-	-	-	35,101	20,277
Fluorspar	-	-	-	6,522	165,982	128,737
Gypsum	-	54	54	8,613	43,321	92,282
Phosphate rock	-	-	-	-	122,098	12,671
Salt	-	3,619	3,619	-	473,338	436,401
Crude non-metallic minerals (except coal and petroleum), n.e.s.	-	11	11	444	25,872	48,273
Cotton and textile rags and waste	-	408	408	20	10,364	17,555
Lumber and timber	-	1,028	1,028	56	27,512	23,580
Veneer, plywood and wood building boards	-	9	9	19	47,410	51,346
Pulp	-	-	-	-	72,753	60,814
Newsprint paper	5,760	2,765	8,525	20,514	375,572	475,917
Building paper and building board (except wood, plastic and gypsum board)	-	23	23	11	12,700	12,893
Cordage, twine and rope (except braided cords and threads)	-	-	-	-	43,576	39,056
Animal oils and fats (except marine)	-	5,659	5,659	1,879	181,779	175,374
Fish and marine animal oils	-	-	-	-	8,795	9,288
Soyabean oil	-	682	682	-	21,394	27,986
Vegetable oils and fats, except essential oils, n.e.s.	-	-	-	2	64,004	59,247
Oils, fats, waxes, extracts and derivatives, animal and vegetable, n.e.s.	-	16	16	56	17,376	27,558
Metallic salts and peroxysalts, of inorganic acids	99	916	1,015	1,404	49,200	45,978
Inorganic chemicals, n.e.s.	-	162	162	317	17,225	70,577
Glycol	-	-	-	-	15,673	10,362
Organic chemicals, n.e.s.	47	1,204	1,251	412	146,931	84,890
Fertilizers and fertilizer materials, n.e.s.	-	32	32	-	37,127	70,336
Synthetic rubber (including rubber compounds and reclaimed rubber)	-	4,158	4,158	2,263	59,401	69,937
Plastic materials, not shaped, and plastics basic shapes and forms	-	456	456	1,759	41,246	55,670
Dyestuffs (except dyeing extracts); pigments, lakes and toners (ex- cluding those in chemicals); and paints and related products	81	116	197	7	5,616	11,779
Chemical specialties, industrial, n.e.s.	-	207	207	229	24,878	31,565
Gasoline	-	-	-	7,706	258,501	184,019
Fuel oil	75,539	4,337	79,876	32,210	1,982,018	2,107,395
Lubricating oils and greases	-	270	270	198	193,968	315,486
Coke of petroleum and coal	-	7,699	7,699	-	233,346	214,737
Coal tar and coal pitch	-	-	-	-	17,319	21,036
Petroleum and coal products, n.e.s. ..	-	160	160	3,176	138,263	88,065
Ferro-alloys	-	317	317	58	74,999	70,461
Pig iron	11,727	-	11,727	4,260	243,943	324,530
Primary iron and steel, n.e.s.	-	-	-	-	29,850	60,184
Castings and forgings (excluding pipes and fittings)	-	-	-	-	24,214	20,582
Bars and rods, steel	-	44	44	292	359,022	366,938
Plate, sheet and strip, steel	1,400	7,433	8,833	1,999	2,306,610	1,913,114
Structural shapes and sheet piling	866	873	1,739	599	653,375	561,953

TABLE 2. Tonnage of Freight Transported through the St. Lawrence Canals, by Commodity, and by Direction - Concluded

Commodity	December 1967			Total December 1966	Cumulative total	
	Upbound	Downbound	Total		1967	1966
	tons					
Pipes and tubes, iron and steel (except fittings and finished elec- trical conduit and tubing)	9	170	179	156	56,159	54,027
Wire (including wire rope)	-	74	74	152	99,487	119,004
Aluminum (including alloys)	38	349	387	53	25,077	40,407
Zinc and alloys	-	169	169	-	30,470	18,708
Non-ferrous metals, u.e.s.	-	29	29	-	7,087	12,032
Metal fabricated basic products	67	38	105	5,851	116,524	148,558
Glass basic products	-	17	17	49	64,535	62,044
Cement	-	-	-	-	17,417	58,223
Non-metallic mineral basic products, n.e.s.	-	431	431	258	28,015	51,174
Bricks, tiles (clay) and refractories, n.e.s.	123	17	140	88	15,771	17,000
Miscellaneous fabricated materials ...	-	19	19	-	6,557	4,204
Tractors	86	215	301	850	51,138	64,954
Machinery, n.e.s.	408	2,530	2,938	1,527	132,984	124,704
Passenger automobiles and chassis	-	1,679	1,679	2,758	108,758	109,539
Motor vehicle engines, accessories, parts and assemblies	10	2,072	2,082	993	38,063	39,933
Equipment	36	459	495	368	25,725	22,595
Personal and household goods	-	455	455	184	43,138	37,383
Domestic package freight	4,677	10,111	14,788	24,404	333,509	550,544
Other	11,279	14,051	25,330	10,741	592,957	518,652
Total freight carried	580,592	711,968	1,292,560	1,044,132	44,167,223	49,203,262

TABLE 3. Tonnage of Freight Transported through the Welland Canal, by Commodity, and by Direction

Commodity	December 1967			Total December 1966	Cumulative total	
	Upbound	Downbound	Total		1967	1966
	tons					
Meat, fresh, chilled or frozen	-	1,653	1,653	1,797	37,361	58,925
Milk powder	-	5,004	5,004	23	98,041	57,445
Barley	-	126,008	126,008	70,642	1,608,561	1,491,319
Corn	-	204,486	204,486	106,054	2,266,234	3,578,868
Oats	-	29,549	29,549	30,422	516,823	758,764
Rye	-	-	-	2,828	144,437	242,216
Wheat	-	553,883	553,883	663,997	7,301,471	11,861,305
Cereals, unmilled, n.e.s.	-	305	305	1,819	3,733	8,735
Corn meal and flour	-	7,883	7,883	1,085	120,595	73,831
Malt and malt flour	-	6,625	6,625	6,432	94,233	111,846
Wheat flour	-	4,129	4,129	13,605	109,608	173,332
Cereals, milled, n.e.s.	-	5,394	5,394	192	72,268	21,568
Fruits, preserved, not canned, n.e.s. Fruits and preparations, canned (except infant foods)	-	-	-	-	10,958	11,160
Vegetables, dried	-	2,537	2,537	11,271	148,081	167,921
Vegetables and vegetable preparations, n.e.s.	-	85	85	119	25,889	21,558
Raw sugar	-	-	-	-	4,076	24,808
Sugar, n.e.s.	-	770	770	-	48,493	29,468
Molasses, crude	2,254	-	2,254	-	81,137	60,986
Syrup	-	-	-	-	23,641	10,994
Cocoa and chocolate	-	-	-	-	20,172	11,823
Lard	-	2,563	2,563	1,937	63,031	47,805
Hulls, screenings, chaff and scourings	-	7,172	7,172	-	67,355	110,442
Soyabean oil meal and cake	-	10,302	10,302	9,129	384,959	294,423
Oil seed meals and cake, n.e.s.	-	-	-	5,986	81,315	98,331
Brewers' and distillers' grains and solubles	-	305	305	-	5,255	12,042

TABLE 3. Tonnage of Freight Transported through the Welland Canal, by Commodity, and by Direction - Continued

Commodity	December 1967			Total December 1966	Cumulative total	
	Upbound	Downbound	Total		1967	1966
	tons					
Feeds of vegetable origin, n.e.s.	-	4,376	4,376	10,892	224,704	334,530
Concentrated and complete feeds	-	11,442	11,442	18,734	174,063	106,233
Ale, beer, stout and porter	-	5	5	-	10,669	10,132
Wines	-	-	-	-	47,428	28,690
Distilled alcoholic beverages	-	12	12	-	35,280	39,265
Raw hides and skins and undressed fur skins	-	6,149	6,149	2,930	59,306	60,486
Flaxseed	-	17,618	17,618	11,939	445,702	581,659
Rapeseed	-	-	-	2,267	23,722	27,953
Soyabeans	-	123,620	123,620	121,248	1,358,000	1,645,010
Rubber and allied gums, natural, and natural gums and resins	-	-	-	-	73,977	61,949
Logs	-	3,025	3,025	708	20,372	24,557
Pulpwood	-	-	-	-	243,203	229,187
Crude wood materials, n.e.s.	-	-	-	-	2	12,103
Alumina and bauxite ore	-	-	-	134	92,192	132,302
Iron ore, crude, and concentrates, calcined, roasted or treated	467,673	17,603	485,276	395,048	16,545,092	17,300,086
Manganese ore	-	73	73	-	197,082	264,628
Ores, concentrates and precipitates, n.e.s.	-	-	-	-	23,869	45,239
Iron and steel scrap	-	32,141	32,141	-	420,008	129,663
Non-ferrous and precious metal scrap	-	767	767	651	61,197	49,372
Coal, bituminous, sub-bituminous, and lignite	-	373,139	373,139	177,064	8,654,482	7,686,191
Natural gas and other crude bituminous substances	-	428	428	165	3,934	14,273
Bentonite	-	718	718	341	115,169	99,160
China clay	-	-	-	-	25,542	16,428
Clay and other crude refractory materials, n.e.s.	-	659	659	3,897	65,495	69,457
Sand and gravel	-	13,728	13,728	1,169	133,330	164,615
Limestone	-	-	-	-	500	11,320
Crushed stone, including stone refuse	-	-	-	-	6,345	-
Dolomite	101,128	1,006	102,134	70,264	1,128,856	1,364,225
Stone, crude, n.e.s.	-	-	-	-	24,053	55,589
Fluor spar	-	-	-	-	142,329	101,145
Salt	-	25,982	25,982	11,215	837,014	753,886
Crude non-metallic minerals (except coal and petroleum), n.e.s.	-	11	11	444	23,234	49,416
Cotton and textile rags and waste	-	344	344	2	7,427	10,755
Veneer, plywood and wood building boards	-	-	-	-	28,402	34,602
Pulp	-	-	-	-	59,707	64,694
Newsprint paper	9,310	2,765	12,075	22,838	462,327	570,459
Cordage, twine and rope (except braided cords and threads)	-	-	-	-	32,342	31,727
Animal oils and fats (except marine)	-	5,647	5,647	1,879	175,695	170,725
Soyabean oil	-	-	-	-	3,292	16,615
Vegetable oils and fats, except essential oils, n.e.s.	-	-	-	2	21,551	23,094
Oils, fats, waxes, extracts and derivatives, animal and vegetable, n.e.s.	-	16	16	51	11,889	25,184
Metallic salts and peroxy salts, of inorganic acids	-	9,237	9,237	7,888	87,642	61,733
Inorganic chemicals, n.e.s.	-	5,156	5,156	317	91,640	149,719
Glycol	-	1,927	1,927	2,596	20,418	22,328
Organic chemicals, n.e.s.	-	567	567	3,996	148,655	96,231
Fertilizers and fertilizer materials, n.e.s.	-	6,179	6,179	-	16,712	22,168
Synthetic rubber (including rubber compounds and reclaimed rubber)	-	3,466	3,466	2,263	55,373	65,533
Plastic materials, not shaped, and plastics basic shapes and forms	-	408	408	190	29,860	44,079
Chemical specialties, industrial, n.e.s.	-	130	130	183	21,936	20,400
Gasoline	6,677	3,192	9,869	10,679	258,575	263,200
Fuel oil	38,279	45,131	83,410	75,158	1,109,875	1,224,019
Lubricating oils and greases	-	270	270	198	160,157	222,728
Coke of petroleum and coal	-	7,699	7,699	-	256,000	229,940
Asphalts and road oils	-	30	30	366	37,414	34,778

TABLE 3. Tonnage of Freight Transported through the Welland Canal, by Commodity, and by Direction - Concluded

Commodity	December 1967			Total December 1966	Cumulative total	
	Upbound	Downbound	Total		1967	1966
tons						
Coal tar and coal pitch	-	-	-	3,214	94,472	107,057
Petroleum and coal products, n.e.s. ..	-	160	160	7,423	145,873	117,989
Ferro-alloys	-	-	-	58	65,234	66,584
Pig iron	8,715	-	8,715	4,260	224,875	305,799
Primary iron and steel, n.e.s.	-	-	-	-	25,050	79,363
Castings and forgings (excluding pipes and fittings)	-	-	-	-	16,551	15,186
Bars and rods, steel	-	44	44	13	311,260	324,886
Plate, sheet and strip, steel	1,205	427	1,632	691	2,108,009	1,829,942
Structural shapes and sheet piling ...	-	-	-	-	557,987	488,722
Pipes and tubes, iron and steel (except fittings and finished electrical conduit and tubing)	-	76	76	-	39,594	37,440
Wire (including wire rope)	-	74	74	145	86,800	103,036
Aluminum (including alloys)	-	256	256	53	19,262	29,035
Zinc and alloys	-	-	-	-	30,203	18,698
Non-ferrous metals, n.e.s.	-	-	-	-	6,402	9,948
Metal fabricated basic products	-	38	38	5,824	94,611	120,880
Glass basic products	-	-	-	4	53,471	48,454
Cement	5,414	10,758	16,172	7,872	226,553	113,812
Non-metallic mineral basic products, n.e.s.	-	424	424	148	21,923	35,288
Tractors	-	179	179	806	43,405	55,504
Machinery, n.e.s.	-	2,123	2,123	1,345	93,935	88,255
Passenger automobiles and chassis	-	1,637	1,637	2,755	80,227	92,322
Motor vehicle engines, accessories, parts and assemblies	-	1,915	1,915	893	30,495	31,937
Equipment	-	102	102	279	11,587	10,938
Domestic package freight	6,421	8,508	14,929	15,729	279,584	451,333
Other	9,615	7,945	17,560	8,872	529,420	371,856
Total freight carried	656,691	1,727,985	2,384,676	1,945,443	52,861,611	59,180,439

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

Commodity	December 1967					
	Upbound		Downbound		Total	
	Canadian lock	Canadian and U.S. locks	Canadian lock	Canadian and U.S. locks	Canadian lock	Canadian and U.S. locks
tons						
Paper and woodpulp	-	-	2,923	16,234	2,923	16,234
Pulpwood, lumber and logs	-	-	-	-	-	-
Wheat	-	-	-	1,064,623	-	1,064,623
Barley	-	-	-	145,271	-	145,271
Oats	-	-	-	52,042	-	52,042
Corn	-	-	-	-	-	-
Rye	-	-	-	-	-	-
Flaxseed	-	-	-	33,558	-	33,558
Soyabeans	-	-	-	-	-	-
Flour	-	-	-	-	-	-
Mill products, screenings	-	-	-	6,728	-	6,728
Iron ore	-	-	-	1,559,730	-	1,559,730
Manufactured iron and steel	9	217	-	24,119	9	24,336
Pig iron	-	-	-	10,856	-	10,856
Scrap iron	-	-	-	-	-	-
Stone, broken, sand and gravel	-	20,826	-	-	-	20,826
Cement	-	-	-	-	-	-
Coal, bituminous	-	30,641	-	-	-	30,641
Coal, anthracite	-	-	-	-	-	-
Coke	-	-	-	-	-	-
Non-metallic minerals, mfrs.	-	22,950	-	-	-	22,950
Gasoline	2,802	8,864	-	-	2,802	8,864
Fuel oil	11,631	37,107	-	-	11,631	37,107
Other petroleum products	-	-	-	-	-	-
Motor vehicles	-	-	-	-	-	-
Miscellaneous merchandise	-	14,236	3,168	32,522	3,168	46,758
Domestic package freight	1,131	1,131	2,868	2,868	3,999	3,999
Total freight carried	15,573	135,972	8,959	2,948,551	24,532	3,084,523

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