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CATALOGUE No.

54-001

MONTHLY

DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

Published by Authority of the Minister of Trade and Commerce

Vol. 47, No. 9

Price: 10 cents, \$1.00 a year

SUMMARY OF CANAL STATISTICS

DECEMBER 1966

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

The total volume of freight cleared through all Canadian canals during the month rose 13.6 per cent to 3,125,981 tons from 2,751,579 tons in December 1965.

During December, cargo traffic through the St. Lawrence Canals totalled 1,044,132 tons, an increase of 263,489 tons over the previous year, while on the Welland Canal cargo shipments amounted to 1,945,443 tons, some 96,527 tons higher than in 1965. This year's totals, of 49,203,262 tons for the St. Lawrence Canals and 59,180,439 tons for the Welland Canal, are 13.4 per cent and 10.8 per cent higher than the 1965 volume (43,376,460 tons and 53,400,833 tons respectively), and establish new cargo records for the two systems.

New tonnage records were also achieved in 1966 for wheat and iron ore movements on both the Welland and St. Lawrence Canals. Wheat tonnages through the St. Lawrence Canals rose to 11,198,694 tons (1964 shipments of 9,199,905 tons was the previous record), while iron ore traffic totalled 15,356,366 tons (in 1965, 12,775,755 tons were shipped). The Welland Canal reported 11,861,305 tons of wheat (9,815,606 tons in 1964) and 17,300,086 tons of iron ore (16,777,971 tons in 1964).

Bituminous coal movements through the St. Lawrence Canals during the year amounted to 1,198,455 tons, compared to 1,051,068 tons in 1965. A gain was also reported for this commodity on the Welland Canal where 7,686,191 tons were shipped in 1966 and 7,171,607 tons in 1965.

Shipments of corn through the St. Lawrence Canals in 1966, at 3,326,280 tons, were considerably lower than the previous year's total of 3,759,103 tons; the volume of this commodity transported through the Welland Canal similarly declined to 3,578,868 tons from 3,966,461 tons. Other noteworthy changes during the year included fuel oil through the St. Lawrence Canals expanding to 2,107,395 tons from 1,999,953 tons, and lubricating oils and greases to 315,486 tons from 198,275 tons. On the Welland Canal salt movements rose to 753,886 tons from 597,857 tons, and soyabean oil meal and cake to 294,423 tons from 196,102 tons.

Cargo traffic through the Canadian lock at Sault Ste. Marie declined this year to 1,262,682 tons from 1,384,667 tons in 1965. However, activity through the United States locks increased appreciably; this year 102,389,719 tons were shipped - the first one hundred million ton year since 1957.

The volume of cargo shipped through all Canadian canals in 1966 rose to 110,833,896 tons, a gain of 11.6 per cent over the 99,334,909 tons transported in 1965; this was the first year in their history that cargo tonnage through Canadian canal networks exceeded one hundred million tons.

The closing dates for Canadian canals were as follows: St. Lawrence Canals, December 15; Welland Canal, December 16; and the Canadian lock at Sault Ste. Marie, December 12.

Transportation and Public Utilities Division
Transportation Section

April 1967
8504-517

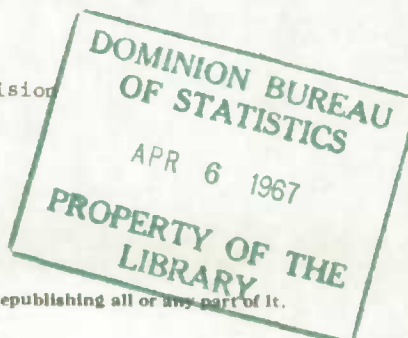


TABLE 1. Vessel Passages, Registered Net Tonnage, and Tonnage of Freight for All Canals

Canal	December 1966			Tonnage of freight December 1965	Cumulative tonnage of freight	
	Number of vessel passages	Registered net tonnage of vessels	Tonnage of freight		1966	1965
Canso Canal	89	93,327	101,613	76,910	1,154,561	1,082,405
St. Lawrence Canals	181	830,437	1,044,132	780,643	49,203,262	43,376,460
Welland Canal	280	1,433,836	1,945,443	1,848,916	59,180,439	53,400,833
Sault Ste. Marie Canal - Can. lock ..	67	118,654	34,791	45,040	1,262,682	1,384,667
All other canals	5	72	2	70	32,952	90,544
Totals	622	2,476,326	3,125,981	2,751,579	110,833,896	99,334,909
Sault Ste. Marie Canal - U.S. locks ..	529	..	2,935,467	2,431,570	102,389,719	94,186,341

.. Figures not available.

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

Commodity	December 1966			Total December 1965	Cumulative total	
	Upbound	Downbound	Total		1966	1965
	tons					
Meat, fresh, chilled or frozen	-	2,078	2,078	5,407	63,635	51,570
Milk powder	-	23	23	3,084	59,027	218,022
Barley	-	23,940	23,940	40,895	1,287,879	1,298,882
Corn	-	53,307	53,307	116,703	3,326,280	3,759,103
Oats	-	20,602	20,602	28,127	710,598	856,843
Rye	-	5,367	5,367	-	229,806	65,660
Wheat	-	352,325	352,325	272,993	11,198,694	8,644,089
Cereals, unmilled, n.e.s.	-	1,819	1,819	-	8,754	14,081
Corn meal and flour	-	1,085	1,085	1,867	73,859	67,192
Malt and malt flour	-	3,417	3,417	5,480	95,163	73,379
Wheat flour	-	13,605	13,605	8,432	173,355	238,227
Cereals, milled, n.e.s.	-	192	192	833	21,611	25,642
Fruit juices, unfermented, not concentrated, and fruit juice concentrates	-	-	-	92	4,757	20,724
Fruits, preserved, not canned, n.e.s.	-	-	-	475	18,275	20,816
Fruits and preparations, canned (except infant foods)	-	88	88	52	24,458	31,473
Vegetables, dried	-	4,004	4,004	8,408	166,832	217,247
Vegetables and vegetable preparations, n.e.s.	21	268	289	366	40,083	19,486
Raw sugar	-	-	-	-	143,657	152,895
Molasses, crude	-	-	-	-	88,620	57,884
Cocoa and chocolate	6	-	6	15	20,009	27,874
Lard	-	1,937	1,937	3,722	47,818	62,022
Miscellaneous foods, food materials and food preparations, n.e.s.	41	1,497	1,538	29	14,022	14,503
Hay, forage and straw	-	-	-	-	2,947	43,817
Hulls, screenings, chaff and scourings	-	-	-	-	109,477	85,257
Wheat bran, shorts and middlings	-	-	-	-	4,712	10,729
Ground cereals and by-products, n.e.s.	-	-	-	20,523	23,875	60,148
Soyabean oil meal and cake, n.e.s.	-	12,118	12,118	6,429	423,252	361,923
Oil seed meals and cake, n.e.s.	-	5,986	5,986	1,864	104,575	111,348
Brewers' and distillers' grains and solubles	-	-	-	7,164	12,042	14,028
Feeds of vegetable origin, n.e.s.	-	10,892	10,892	14,435	322,515	145,003
Ale, beer, stout and porter	-	-	-	130	12,173	11,381
Wines	-	-	-	83	39,521	31,339
Distilled alcoholic beverages	-	-	-	31	46,093	45,450
Raw hides and skins and undressed fur skins	-	4,887	4,887	7,051	85,189	87,896
Flaxseed	-	3,824	3,824	5,599	545,857	352,093
Rapeseed	-	2,267	2,267	-	27,956	12,681
Soyabeans	-	6,976	6,976	16,275	1,225,990	1,326,709

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

Commodity	December 1966			Total December 1965	Cumulative total	
	Upbound	Downbound	Total		1966	1965
	tons					
Rubber and allied gums, natural, and natural gums and resins	-	-	-	-	78,913	106,567
Logs	-	708	708	638	30,125	29,143
Pulpwood	-	-	-	-	277,966	206,920
Alumina and bauxite ore	-	134	134	-	132,302	113,783
Iron ore, crude, and concentrates, calcined, roasted or treated	346,755	-	346,755	33,258	15,356,366	12,803,549
Manganese ore	-	-	-	-	254,441	130,428
Ores, concentrates and precipitates, n.e.s.	-	-	-	-	45,258	20,425
Iron and steel scrap	-	-	-	259	117,117	106,161
Non-ferrous and precious metal scrap	-	851	851	520	58,609	16,466
Slags, drosses and other by-products	-	173	173	104	22,968	24,016
Coal, bituminous, sub-bituminous, and lignite	-	-	-	12,629	1,198,455	1,051,068
Crude petroleum, petroleum tops and natural gasoline	-	-	-	-	80,047	104,168
Bentonite	-	341	341	9,259	95,625	106,638
China clay	-	-	-	-	21,292	30,011
Clay and other crude refractory materials, n.e.s.	-	-	-	125	37,959	48,382
Sand and gravel	-	82	82	-	270	32,009
Fluorspar	6,522	-	6,522	-	128,737	133,837
Gypsum	8,613	-	8,613	-	92,282	112,122
Salt	-	-	-	1,923	436,401	345,317
Crude non-metallic minerals (except coal and petroleum), n.e.s.	-	444	444	4,338	48,273	35,631
Lumber and timber	-	56	56	42	23,580	27,676
Veneer, plywood and wood building boards	8	11	19	162	51,346	35,676
Pulp	-	-	-	865	60,814	83,710
Newsprint paper	20,514	-	20,514	12,650	475,917	431,918
Building paper and building board (except wood, plastic and gypsum board)	-	11	11	286	12,893	17,863
Cordage, twine and rope (except braided cords and threads)	-	-	-	-	39,056	30,989
Animal oils and fats (except marine)	-	1,879	1,879	8,668	175,374	186,294
Fish and marine animal oils	-	-	-	-	9,288	21,344
Soyabean oil	-	-	-	3,259	27,986	19,420
Vegetable oils and fats, except essential oils, n.e.s.	-	2	2	-	59,247	37,968
Oils, fats, waxes, extracts and derivatives, animal and vegetable, n.e.s.	5	51	56	80	27,558	21,518
Metallic salts and peroxy salts, of inorganic acids	-	1,404	1,404	-	45,978	11,920
Inorganic chemicals, n.e.s.	-	317	317	1,245	70,577	76,307
Glycol	-	-	-	448	10,362	12,674
Organic chemicals, n.e.s.	29	383	412	4,469	84,890	57,638
Fertilizers and fertilizer materials, n.e.s.	-	-	-	97	70,336	15,382
Synthetic rubber (including rubber compounds and reclaimed rubber)	-	2,263	2,263	4,562	69,937	54,360
Plastic materials, not shaped, and plastics basic shapes and forms	-	1,759	1,759	3,027	55,670	36,377
Chemical specialties, industrial, n.e.s.	16	213	229	546	31,565	106,431
Gasoline	7,706	-	7,706	4,418	184,019	160,285
Fuel oil	32,210	-	32,210	26,001	2,107,395	1,999,953
Lubricating oils and greases	-	198	198	8,433	315,486	198,275
Coke of petroleum and coal	-	-	-	132	214,737	185,098
Coal tar and coal pitch	-	-	-	-	21,036	28,031
Petroleum and coal products, n.e.s.	-	3,176	3,176	779	88,065	66,646
Ferro-alloys	-	58	58	-	70,461	86,951
Pig iron	4,260	-	4,260	7,047	324,530	326,408
Primary iron and steel, n.e.s.	-	-	-	-	60,184	27,248
Bars and rods, steel	120	172	292	1,310	366,938	716,675
Plate, sheet and strip, steel	38	1,952	1,990	27,910	1,915,224	1,496,989
Structural shapes and sheet piling ...	599	-	599	3,628	591,953	800,567

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

Commodity	December 1966			Total December 1965	Cumulative total	
	Upbound	Downbound	Total		1966	1965
tons						
Pipes and tubes, iron and steel (except fittings and finished elec- trical conduit and tubing)	153	3	156	171	54,027	43,584
Wire (including wire rope)	-	152	152	525	119,004	101,398
Aluminum (including alloys)	-	53	53	454	40,407	44,557
Non-ferrous metals, n.e.s.	-	-	-	108	12,032	36,093
Metal fabricated basic products	-	5,851	5,851	2,603	148,558	141,737
Glass basic products	15	34	49	203	62,044	58,006
Cement	-	-	-	-	58,223	10,748
Non-metallic mineral basic products, n.e.s.	-	258	258	102	51,174	48,421
Miscellaneous fabricated materials ...	-	-	-	3	4,204	6,064
Tractors	-	850	850	623	64,954	40,131
Machinery, n.e.s.	-	1,527	1,527	1,269	124,704	108,817
Passenger automobiles and chassis	-	2,758	2,758	2,465	109,539	98,274
Motor vehicle engines, accessories, parts and assemblies	-	993	993	1,728	39,933	37,546
Equipment	-	368	368	327	22,595	22,885
Personal and household goods	2	182	184	11	37,383	14,920
Domestic package freight	8,366	16,038	24,404	4,362	550,544	609,526
Other	1,654	28,270	29,924	6,008	724,763	381,105
Total freight carried	437,653	606,479	1,044,132	780,643	49,203,262	43,376,460

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

Commodity	December 1966			Total December 1965	Cumulative total	
	Upbound	Downbound	Total		1966	1965
tons						
Meat, fresh, chilled or frozen	-	1,797	1,797	5,280	58,925	46,184
Milk powder	-	23	23	3,084	57,445	207,669
Barley	-	70,642	70,642	120,525	1,491,319	1,543,651
Corn	-	106,054	106,054	161,076	3,578,868	3,966,461
Oats	-	30,422	30,422	40,598	758,764	939,585
Rye	-	2,828	2,828	-	242,216	71,253
Wheat	-	663,997	663,997	526,007	11,861,305	8,788,116
Cereals, unmilled, n.e.s.	-	1,819	1,819	-	8,735	13,928
Corn meal and flour	-	1,085	1,085	1,867	73,831	65,038
Malt and malt flour	-	6,432	6,432	6,819	111,846	80,844
Wheat flour	-	13,605	13,605	8,432	173,332	238,003
Cereals, milled, n.e.s.	-	192	192	833	21,568	24,653
Fruit juices, unfermented, not con- centrated, and fruit juice concen- trates	-	-	-	-	2,113	14,580
Fruits, preserved, not canned, n.e.s.	-	-	-	441	11,160	15,446
Fruits and preparations, canned (except infant foods)	-	5	5	-	12,800	18,835
Vegetables, dried	-	11,271	11,271	10,535	167,921	195,191
Raw sugar	-	-	-	-	24,808	33,582
Molasses, crude	-	-	-	-	60,986	54,973
Syrup	-	-	-	-	10,994	11,386
Cocoa and chocolate	-	-	-	-	11,823	12,470
Lard	-	1,937	1,937	3,722	47,805	61,947
Hay, forage and straw	-	-	-	-	2,947	43,817
Hulls, screenings, chaff and scourings	-	-	-	-	110,442	85,257
Wheat bran, shorts and middlings	-	-	-	-	4,712	10,729
Ground cereals and by-products, n.e.s.	-	-	-	20,351	22,050	54,637
Soyabean oil meal and cake	-	9,129	9,129	4,672	294,423	196,102
Oil seed meals and cakes, n.e.s.	-	3,366	3,366	1,713	38,331	103,971

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

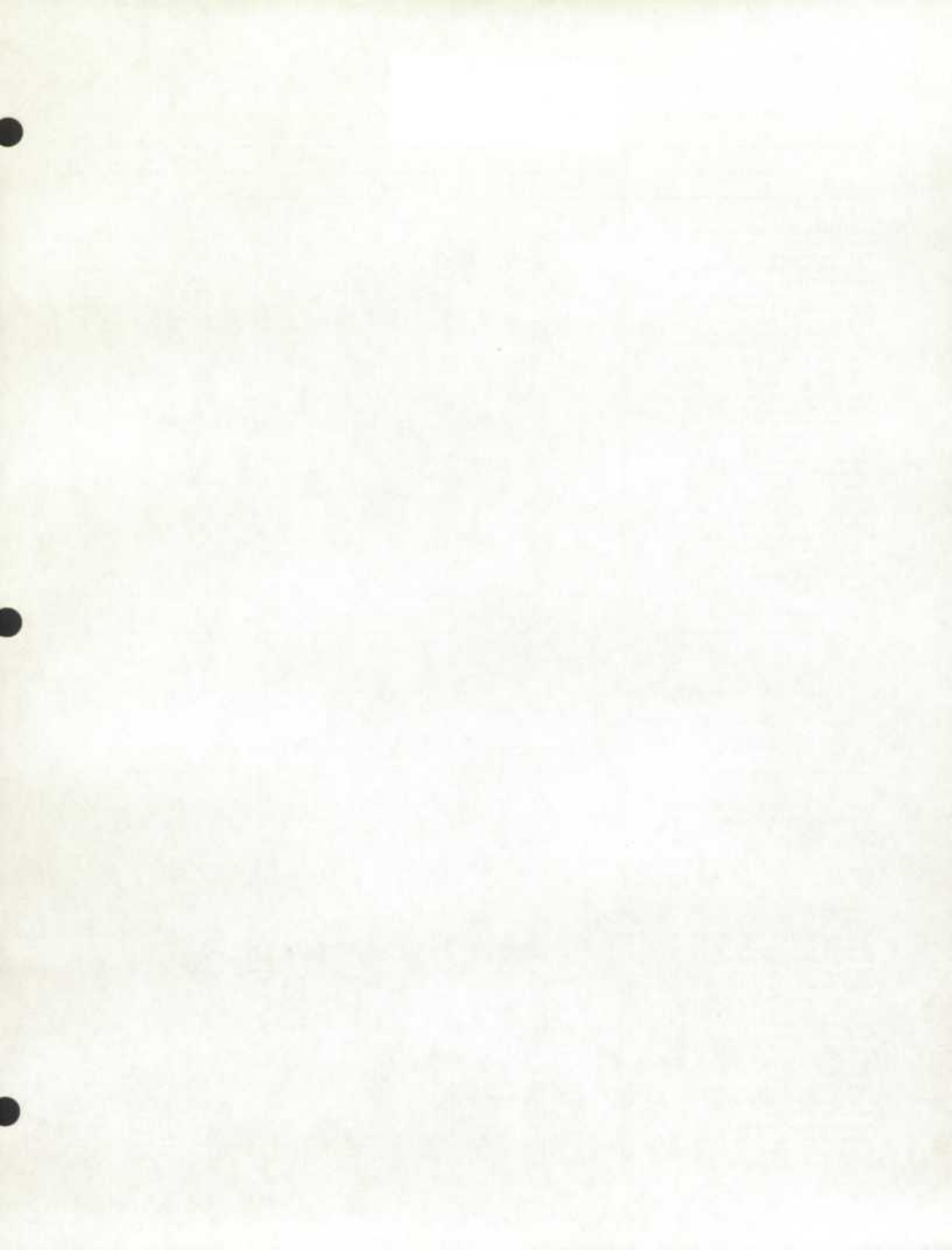
Commodity	December 1966			Total December 1965	Cumulative total	
	Upbound	Downbound	Total		1966	1965
	tons					
Brewers' and distillers' grains and solubles	-	-	-	7,164	12,042	13,940
Feeds of vegetable origin, n.e.s.	-	10,892	10,892	14,435	334,530	144,263
Ale, beer, stout and porter	-	-	-	130	10,132	9,944
Wines	-	-	-	79	28,690	23,391
Distilled alcoholic beverages	-	-	-	31	39,265	37,822
Raw hides and skins and undressed fur skins	-	2,930	2,930	5,599	60,486	68,253
Flaxseed	-	11,939	11,939	12,461	581,659	377,021
Rapeseed	-	2,267	2,267	-	27,953	22,273
Soybeans	-	121,248	121,248	149,922	1,645,010	1,737,615
Rubber and allied gums, natural, and natural gums and resins	-	-	-	-	61,949	86,795
Logs	-	708	708	529	24,557	22,303
Pulpwood	-	-	-	-	229,187	180,795
Alumina and bauxite ore	-	134	134	-	132,302	113,783
Iron ore, crude, and concentrates, calcined, roasted or treated	318,176	76,872	395,048	126,052	17,300,086	16,100,877
Manganese ore	-	-	-	-	264,628	129,553
Ores, concentrates and precipitates, n.e.s.	-	-	-	-	45,239	4,317
Iron and steel scrap	-	-	-	-	129,663	139,637
Non-ferrous and precious metal scrap	-	651	651	194	49,372	9,852
Coal, bituminous, sub-bituminous, and lignite	-	177,064	177,064	290,271	7,686,191	7,171,607
Bentonite	-	341	341	9,259	99,160	103,426
China clay	-	-	-	-	16,428	16,446
Clay and other crude refractory materials, n.e.s.	-	3,897	3,897	5,771	69,457	64,317
Sand and gravel	1,087	82	1,169	30,210	164,615	199,663
Limestone	-	-	-	-	11,320	215,657
Crushed stone, including stone refuse (except limestone flux and crushed limestone)	70,264	-	70,264	50,822	1,364,225	762,767
Stone, crude, n.e.s.	-	-	-	-	55,589	101,116
Fluorspar	-	-	-	-	101,145	118,415
Salt	-	11,215	11,215	27,167	753,886	597,857
Crude non-metallic minerals (except coal and petroleum), n.e.s.	-	444	444	1,444	49,416	29,961
Veneer, plywood and wood building boards	-	-	-	125	34,602	25,510
Pulp	-	-	-	865	64,694	81,014
Newsprint paper	22,838	-	22,838	16,854	570,459	528,705
Building paper and building board (except wood, plastic and gypsum board)	-	11	11	286	7,425	14,083
Cordage, twine and rope (except braided cords and threads)	-	-	-	-	31,727	25,289
Animal oils and fats (except marine)	-	1,879	1,879	8,668	170,725	179,554
Fish and marine animal oils	-	-	-	-	5,736	16,584
Vegetable oils and fats, except essential oils, n.e.s.	-	2	2	-	23,094	23,930
Oils, fats, waxes, extracts and derivatives, animal and vegetable, n.e.s.	-	51	51	80	25,184	15,997
Metallic salts and peroxysalts, of inorganic acids	-	7,888	7,888	-	61,733	34,332
Inorganic chemicals, n.e.s.	-	317	317	5,521	149,719	193,741
Silicic acid	-	2,596	2,596	448	22,328	25,387
Organic chemicals, n.e.s.	3,688	308	3,996	4,403	96,231	64,661
Fertilizers and fertilizer materials, n.e.s.	-	-	-	97	22,168	13,255
Synthetic rubber (including rubber compounds and reclaimed rubber)	-	2,263	2,263	4,543	65,533	51,289
Plastic materials, not shaped, and plastics basic shapes and forms	-	190	190	2,634	44,079	30,008
Chemical specialties, industrial, n.e.s.	-	183	183	430	20,400	96,522
Gasoline	10,052	627	10,679	13,247	263,200	253,335
Fuel oil	43,533	31,375	74,908	39,964	1,224,019	1,104,294

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

Commodity	December 1966			Total December 1965	Cumulative total	
	Upbound	Downbound	Total		1966	1965
tons						
Lubricating oils and greases	-	198	198	8,428	222,728	211,716
Coke of petroleum and coal	-	-	-	132	229,940	198,281
Coal tar and coal pitch	-	3,214	3,214	3,981	107,057	92,915
Petroleum and coal products, n.e.s. ...	-	7,423	7,423	-	117,989	42,891
Ferro-alloys	-	58	58	-	66,584	78,123
Pig iron	4,260	-	4,260	7,047	305,799	311,750
Primary iron and steel, n.e.s.	-	-	-	-	79,363	27,042
Bars and rods, steel	-	13	13	339	324,886	623,800
Plate, sheet and strip, steel	-	691	691	17,735	1,829,942	1,287,533
Structural shapes and sheet piling ...	-	-	-	3,611	488,722	636,162
Pipes and tubes, iron and steel (except fittings and finished electrical conduit and tubing)	-	-	-	171	37,440	29,148
Wire (including wire rope)	-	145	145	390	103,036	86,224
Aluminum (including alloys)	-	53	53	454	29,035	38,340
Non-ferrous metals, n.e.s.	-	-	-	108	9,948	12,421
Metal fabricated basic products	-	5,824	5,824	2,330	120,880	115,081
Glass basic products	-	4	4	192	48,454	42,343
Cement	-	7,872	7,872	9,896	113,812	165,328
Non-metallic mineral basic products, n.e.s.	-	148	148	56	35,288	27,210
Tractors	-	806	806	617	55,504	36,273
Machinery, n.e.s.	-	1,345	1,345	900	88,255	80,526
Passenger automobiles and chassis ...	-	2,755	2,755	2,465	92,322	79,836
Motor vehicle engines, accessories, parts and assemblies	-	893	893	1,654	31,937	30,748
Equipment	-	279	279	237	10,938	15,173
Domestic package freight	10,438	5,291	15,729	19,240	451,333	503,661
Other	26	28,221	28,247	4,173	606,540	348,944
Total freight carried	484,412	1,461,031	1,945,443	1,848,916	59,180,439	53,400,833

TABLE 4. Tonnage of Freight Transported through the Sault Ste. Marie Canals, by Commodity and by Direction
December 1966

Commodity	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	-	-	4,449	28,403	4,449	28,403
Pulpwood, lumber and logs	300	300	-	187	300	487
Wheat	-	-	-	1,400,189	-	1,400,189
Barley	-	-	-	104,578	-	104,578
Oats	-	-	-	73,722	-	73,722
Corn	-	-	-	-	-	-
Rye	-	-	-	9,744	-	9,744
Flaxseed	-	-	-	32,778	-	32,778
Soyabbeans	-	-	-	-	-	-
Flour	-	-	-	1,680	-	1,680
Mill products, screenings	-	-	1,247	17,000	1,247	17,000
Iron ore	-	-	-	1,045,004	-	1,045,004
Manufactured iron and steel	4	24	3,180	27,998	3,184	28,022
Pig iron	-	-	1,001	6,201	1,001	6,201
Scrap iron	-	-	-	-	-	-
Stone, broken, sand and gravel	-	-	-	-	-	-
Cement	-	10,610	-	-	-	10,610
Coal, bituminous	-	134,755	-	-	-	134,755
Coal, anthracite	-	-	-	-	-	-
Coke	-	-	-	-	-	-
Non-metallic minerals, mfrs.	-	14,082	-	-	-	14,082
Gasoline	2,031	2,031	2,845	2,845	4,876	4,876
Fuel oil	5,974	26,322	-	-	5,974	26,322
Other petroleum products	-	-	-	-	-	-
Motor vehicles	-	23	-	-	-	23
Miscellaneous merchandise	373	13,951	228	4,672	601	18,623
Domestic package freight	4,812	4,812	8,347	8,347	13,159	13,159
Total freight carried	13,494	206,910	21,297	2,763,348	34,791	2,970,258



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