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CANADA

DOMINION BUREAU OF STATISTICS ^{Historical File Copy}

TRANSPORTATION BRANCH

SUMMARY REPORT

CANAL STATISTICS

For

DECEMBER

and

SEASON OF NAVIGATION

1923

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DOMINION BUREAU OF STATISTICS

TRANSPORTATION BRANCH

OTTAWA

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SUMMARY OF CANAL STATISTICS

FOR

DECEMBER

AND

SEASON OF NAVIGATION

1923

The attached tables show the traffic on the canals during December, also a summary of the traffic during the season of navigation, 1923.

The Canadian locks at Sault Ste. Marie did not close till December 26th, two days later than last year, while the United States locks closed December 17th. The total traffic through the locks was 1,763,943 tons as against 1,837,221 tons during December, 1922.

During these 26 days, 41,853,237 bushels of wheat and 10,602,858 bushels of other grains passed through the canals. Of the total, 48,168,951 bushels was Canadian grain, 15,523,225 bushels going to Canadian ports and 32,645,762 bushels going to United States ports. Canadian vessels carried 14,157,812 bushels and United States vessels, 34,011,139 bushels.

The last passage through the Welland Canal was on December 14th and through the St. Lawrence Canal on December 10th.

The long open season with an absence of severe storms, the heavy harvest in the west, the revival of the steel industry, the absence of shut downs in the coal mines and increases in practically all lines of business were all factors in the large increase in the traffic through the canals.

The traffic through the Canadian and United States locks at Sault Ste. Marie during the season of navigation aggregated 91,376,831 tons, being surpassed only by the record of 1916 when 91,888,219 tons passed through.

As shown by the chart on page 7, iron ore is the predominant freight using these canals and in two years it jumped from 22,595,323 tons in 1921 to 59,356,943 tons, almost equalling the war years of 1916 - 17 and 18. The coal shipments aggregated 18,390,126 tons being only 232,812 tons below the record made in 1913. Wheat cargoes passed all previous records, totalling 282,873,415 bushels.

The transportation of grain on the Great Lakes during the past season is of added interest on account of the Lake Freight Rates Act being in force from June 30th. The table on page 5 shows the quantities of each grain carried in Canadian, United States and Norwegian bottoms and on page 6, the average freight rates charged for wheat are tabulated. These averages were computed by dividing the total freight charges by the total number of bushels carried during each month and each season. The quantities were taken from the Canal reports and the rates were furnished by the head office of the vessel companies. For comparative purposes, the average rates computed on the same basis are shown for the last five years.

Traffic on the Welland Canal increased 364,493 tons, or 11 per cent. All grains except corn and flax showed increases, wheat increasing 162,925 tons or 5,430,800 bushels, although United States wheat decreased 5,273,300 bushels, corn which is practically all from the United States showed a decrease of 357,065 tons or 12,752,000 bushels. Merchandise increased 16,456 tons and soft coal 299,962 tons.

The St. Lawrence Canal also showed an increase in traffic of 221,609 tons, the largest increases being recorded in wheat 133,412 tons, hard coal, 124,037 tons, barley, 67,429 tons, soft coal, 66,559 tons, oats, 61,348 tons and pulpwood, 54,335 tons. The greatest decrease was in corn of 360,086 tons or 12,837,450 bushels.

Canadian steam vessels using this canal showed an increase in tonnage of 594,327 tons and United States steamers showed a decrease of 269,968 tons. Sailing vessels of both registers showed decreases.

The net increase in traffic on all the Canadian Canals was 1,196,261 tons, 11 per cent compared with 1922 traffic. A summary is shown in the attached tables.

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SUMMARY OF CANAL STATISTICS

FOR DECEMBER, 1923

		Dec. 1923	Dec. 1922
<u>Sault Ste. Marie Canal</u>			
<u>Canadian & American Locks</u>			
Vessels	No.	501	479
Registered Tonnage	Tons	1,224,662	1,104,810
Passengers	No.	71	33
Flour	Barrel	738,690	660,800
Wheat	Bushel	41,853,237	33,059,098
Other Grains	"	10,602,858	10,360,059
Iron Ores	Tons	11,088	10,864
Soft Coal	"	113,600	376,050
Hard Coal	"	48,900	97,000
Total Freight	"	1,763,943	1,837,221
<u>Sault Ste. Marie Canal</u>			
<u>Canadian Lock</u>			
Vessels	No.	139	110
Registered Tonnage	Tons	203,099	115,220
Passengers	No.	64	32
Barley	Tons	13,382	3,985
Oats	"	12,317	10,742
Wheat	"	43,266	44,164
Flour	"	15,328	20,663
Total Freight	"	115,082	104,873
<u>Welland Canal</u>			
Vessels	No.	57	31
Registered Tonnage	Tons	38,609	29,661
Barley	"	2,539	- - -
Corn	"	1,400	3,136
Oats	"	5,656	5,058
Wheat	"	8,017	3,454
Pulpwood	"	- - -	- - -
Soft Coal	"	2,250	8,650
Total Freight	"	27,844	25,091
<u>St. Lawrence Canal</u>			
Vessels	No.	116	211
Registered Tonnage	Tons	65,284	72,517
Passengers	No.	- - -	- - -
Corn	Tons	- - -	6,268
Oats	"	3,520	3,691
Rye	"	- - -	526
Wheat	"	22,020	14,707
Petroleum & Oils	"	- - -	- - -
Pulpwood	"	- - -	- - -
Hard Coal	"	5,382	13,443
Soft Coal	"	7,927	13,010
Sand	"	3,550	600
Total Freight	"	47,918	55,238
<u>Murray Canal</u>			
Vessels	No.	24	5
Registered Tonnage	Tons	364	121
Passengers	No.	- - -	- - -
Total Freight	Tons	120	5
<u>St. Peters Canal</u>			
Vessels	No.	77	67
Registered Tonnage	Tons	5,299	6,002
Passengers	No.	9	8
Total Freight	Tons	3,081	3,513

SUMMARY OF CANAL STATISTICS
FOR SEASON OF NAVIGATION, 1923

<u>Sault Ste. Marie Canal</u> <u>Canadian & American Locks</u>		<u>Season of Navigation</u>	
		1923	1922
Vessels	No.	21,974	17,378
Registered Tonnage	Tons	68,547,016	52,598,749
Passengers	No.	56,384	59,054
Flour	Barrels	10,485,521	9,376,020
Wheat	Bushels	282,878,415	275,444,071
Other Grains	"	86,253,092	118,507,576
Iron Ores	Tons	59,356,943	42,227,338
Soft Coal	"	16,709,302	8,802,141
Hard Coal	"	1,680,824	672,347
Total Freight	"	91,376,831	66,064,219
<u>Sault Ste. Marie Canal</u> <u>Canadian Lock</u>			
Vessels	No.	3,966	3,702
Registered Tonnage	Tons	6,349,704	4,744,474
Passengers	No.	35,697	35,696
Barley	Tons	131,143	76,697
Oats	"	187,937	161,145
Wheat	"	698,230	370,677
Flour	"	502,067	469,488
Total Freight	"	2,255,929	1,709,060
<u>Welland Canal</u>			
Vessels	No.	4,764	3,901
Registered Tonnage	Tons	3,852,183	3,545,735
Barley	"	166,995	92,801
Corn	"	77,815	434,880
Oats	"	201,414	127,481
Wheat	"	1,915,383	1,752,458
Pulp wood	"	169,262	152,806
Soft Coal	"	591,591	291,629
Total Freight	"	3,755,912	3,391,419
<u>St. Lawrence Canal</u>			
Vessels	No.	11,600	11,442
Registered Tonnage	Tons	5,248,925	5,067,948
Passengers	No.	81,777	72,433
Corn	Tons	56,090	416,176
Oats	"	186,945	125,597
Rye	"	170,950	134,059
Wheat	"	1,900,457	1,767,045
Petroleum and Oils	"	88,076	78,825
Pulpwood	"	376,286	321,951
Hard Coal	"	298,381	174,294
Soft Coal	"	645,261	578,702
Sand	"	209,297	174,985
Total Freight	"	4,541,528	4,319,919
<u>Ottawa Canal</u>			
Vessels	No.	2,428	2,112
Registered Tonnage	Tons	341,404	310,754
Passengers	No.	28,337	19,968
Total Freight	Tons	233,092	213,227
<u>Rideau Canal</u>			
Vessels	No.	1,836	1,898
Registered Tonnage	Tons	105,100	106,082
Passengers	No.	6,299	6,319
Total Freight	Tons	81,299	86,382
<u>Chambly Canal</u>			
Vessels	No.	1,277	1,418
Registered Tonnage	Tons	165,162	164,508
Passengers	No.	827	786
Total Freight	Tons	213,190	183,043
<u>Trent Canal</u>			
Vessels	No.	2,332	3,686
Registered Tonnage	Tons	106,954	145,635
Passengers	No.	62,777	80,574
Total Freight	Tons	31,402	43,038

SUMMARY OF CANAL STATISTICS - Cont'd
FOR SEASON OF NAVIGATION, 1923

<u>Murray Canal</u>		<u>Season of Navigation</u>	
		1923	1922
Vessels	No.	1,093	601
Registered Tonnage	Tons	49,498	17,560
Passengers	No.	4,392	465
Total Freight	Tons	3,144	1,843
<u>St. Peters Canal</u>			
Vessels	No.	989	1,083
Registered Tonnage	Tons	74,341	75,095
Passengers	No.	486	740
Total Freight	Tons	46,574	52,737
<u>St. Andrews Canal</u>			
Vessels	No.	324	262
Registered Tonnage	Tons	50,498	46,524
Passengers	No.	-	2,130
Total Freight	Tons	37,364	25,387

TRAFFIC ON CANADIAN CANALS, 1923

Compared with 1922

<u>Canal</u>	<u>Freight Tonnage</u>	<u>Increase</u>	<u>Decrease</u>
Sault Ste. Marie	2,255,929	546,869	
Welland	3,755,912	364,493	
St. Lawrence	4,541,528	221,609	
Chambly	213,190	30,147	
St. Peters	46,574	-	6,163
Murray	3,144	1,301	
Ottawa	233,092	19,865	
Rideau	81,299	-	5,083
Trent	31,402	-	11,636
St. Andrews	37,364	11,977	
Total	11,199,434	1,173,379	

CANADIAN GRAIN THROUGH CANALS AT SAULT STE. MARIE

(Canadian and American Locks)

<u>Wheat</u>	<u>1923</u>	<u>1922</u>	<u>Increase</u>
	Bushels	Bushels	Bushels
In Canadian Bottoms	127,938,765	108,772,721	19,166,044
In U.S. "	114,714,695	118,324,087	# 3,609,392
In Norwegian "	1,192,613	-	1,192,613
Total	243,846,073	227,096,808	16,749,265
<u>Oats</u>			
In Canadian Bottoms	24,706,483	18,259,047	6,447,436
In U.S. "	4,048,062	7,489,365	# 3,440,803
Total	28,755,045	25,748,412	3,006,633
<u>Barley</u>			
In Canadian Bottoms	11,656,116	7,792,227	3,863,889
In U.S. "	2,700,593	5,118,347	# 2,417,754
In Norwegian "	211,561	-	211,561
Total	14,568,270	12,910,574	1,657,696
<u>Rye</u>			
In Canadian Bottoms	3,612,417	1,339,050	2,273,367
In U.S. "	3,037,157	5,963,300	# 2,926,143
Total	6,649,574	7,302,350	# 652,776
<u>Flax</u>			
In Canadian Bottoms	598,253	1,030,373	# 432,120
In U.S. "	2,031,349	1,293,667	737,682
Total	2,629,602	2,324,040	305,562
<u>Total Grains</u>			
In Canadian Bottoms	168,512,034	137,193,418	31,318,616
In U.S. "	126,532,356	138,188,766	#11,656,410
In Norwegian "	1,404,174	-	1,404,174
Grand Total	296,448,564	275,382,184	21,066,380

- Decrease

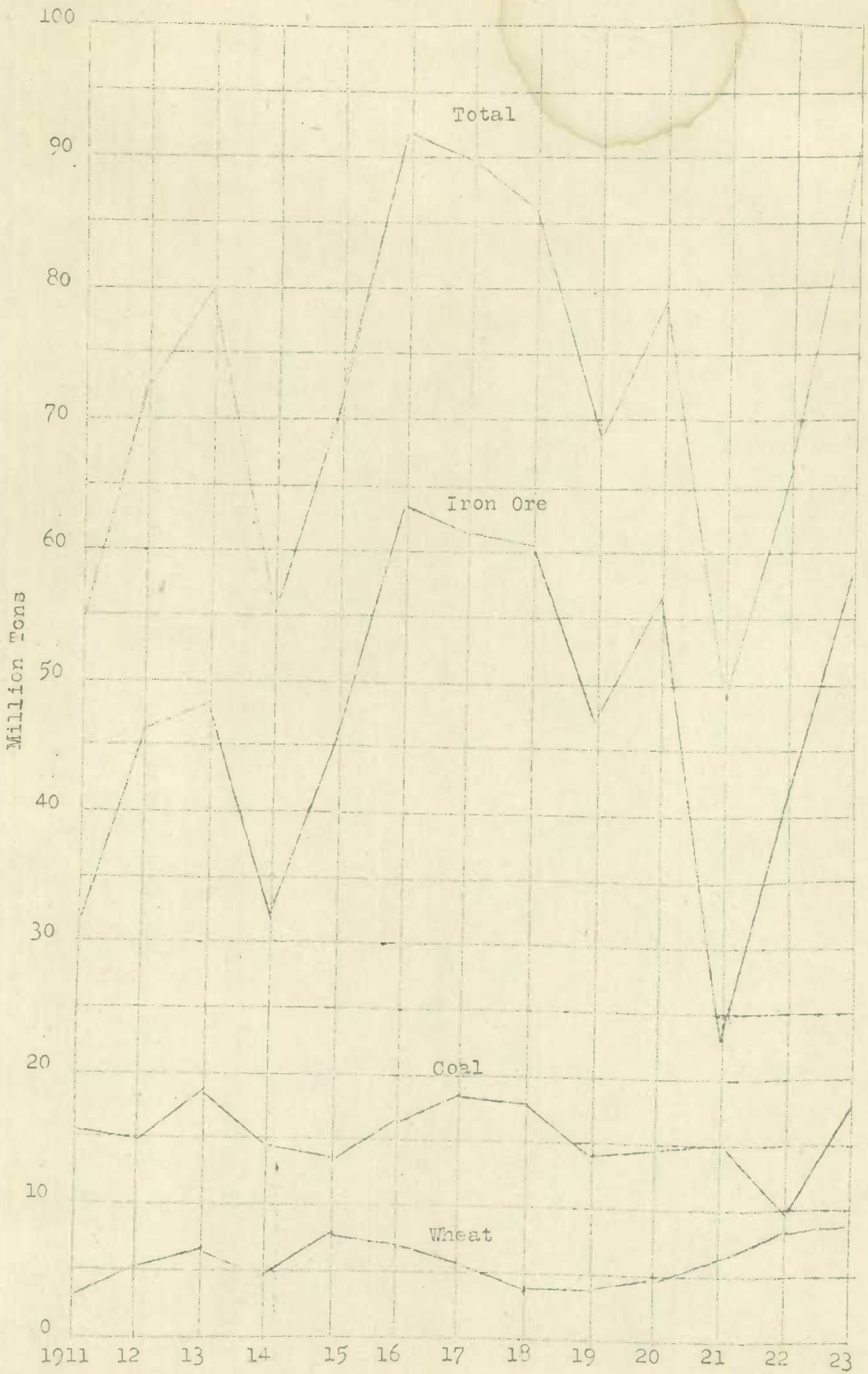
LAKE FREIGHT RATES

ON

CANADIAN WHEAT

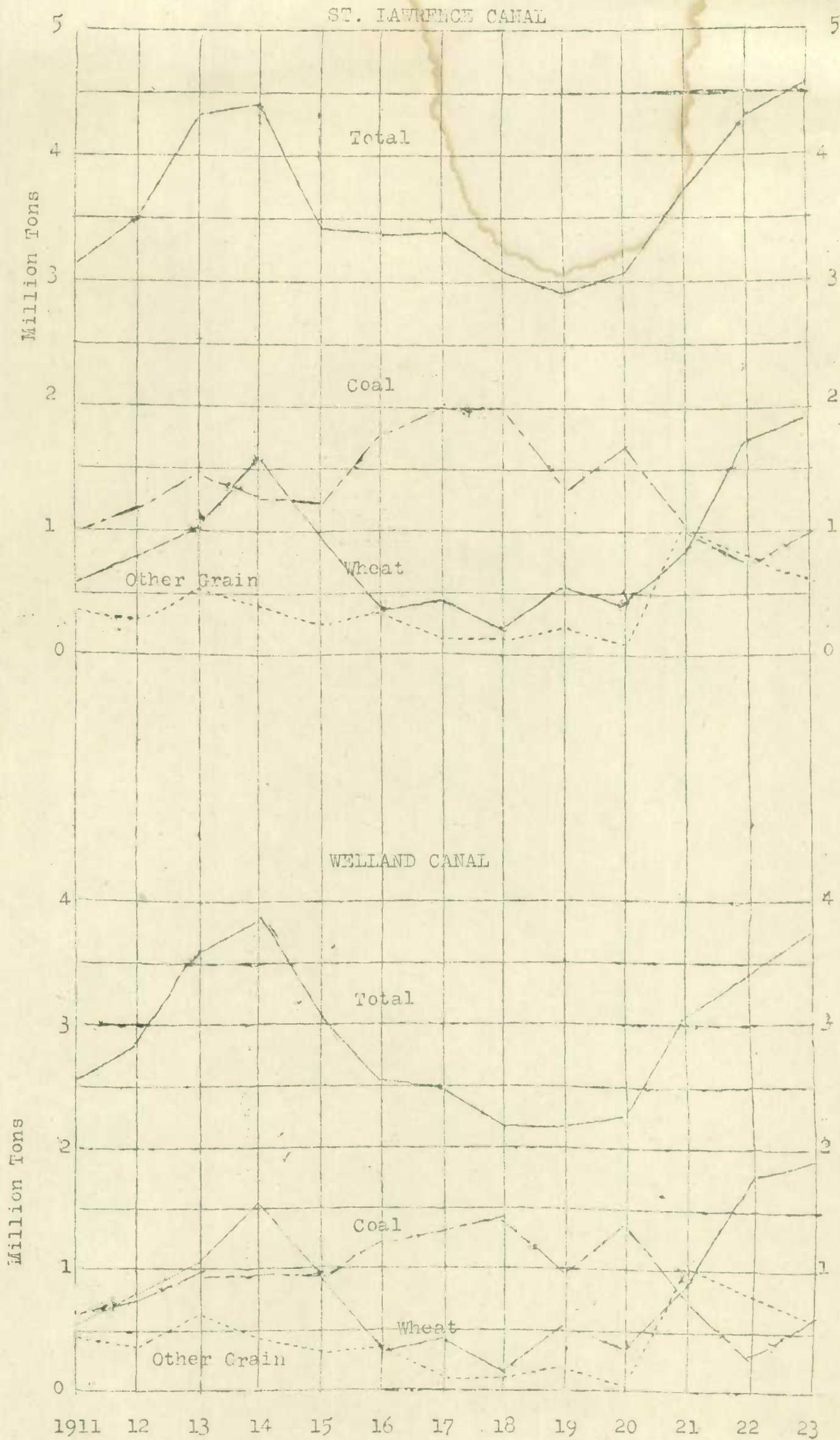
<u>From Fort William - Port Arthur</u>	<u>Average Rate per Bushel (cents)</u>				
	<u>1919</u>	<u>1920</u>	<u>1921</u>	<u>1922</u>	<u>1923</u>
<u>To Bay Ports</u>					
April	3.50	3.01	2.68	2.99	- -
May	3.07	3.00	2.29	2.43	4.10
June	3.00	3.00	2.25	2.46	3.71
July	2.34	3.00	2.26	2.53	2.86
August	2.36	2.99	2.25	2.84	2.99
September	2.93	3.87	2.97	3.00	3.54
October	3.00	5.08	3.01	3.88	4.39
November	3.00	5.52	3.08	5.65	3.82
December	5.15	5.64	4.59	6.25	4.72
Average for Season	3.15	4.17	2.96	4.13	4.02
<u>To Buffalo</u>					
April	- -	- -	2.27	2.31	- -
May	3.50	- -	1.75	2.19	5.29
June	- -	- -	1.75	2.03	4.86
July	3.00	- -	1.78	2.29	3.63
August	3.50	3.00	1.84	2.73	3.20
September	- -	5.34	2.04	2.84	4.58
October	- -	6.06	2.05	4.49	5.24
November	- -	5.74	2.76	4.87	3.64
December	6.00	5.31	4.86	5.89	4.78
Average for Season	3.73	5.70	2.15	4.19	4.41
<u>To Port Colborne</u>					
April	3.95	3.50	3.82	3.44	- -
May	3.31	3.50	3.18	3.02	4.45
June	3.02	3.44	2.70	2.96	4.17
July	2.57	3.50	2.77	3.01	3.67
August	3.43	3.50	2.63	3.33	3.35
September	3.41	4.32	3.19	3.72	3.68
October	3.41	6.05	3.31	4.29	4.57
November	3.51	6.32	3.18	4.71	4.48
December	5.60	6.75	3.79	5.74	4.43
Average for Season	3.46	4.57	3.13	3.81	4.22
<u>To Montreal</u>					
April	12.00	- -	12.63	9.67	- -
May	11.50	11.00	11.71	9.49	12.10
June	- -	11.00	10.18	9.75	10.01
July	9.89	- -	10.00	9.75	9.39
August	10.50	- -	10.00	10.40	9.05
September	11.00	13.46	10.00	9.77	10.77
October	- -	11.00	11.00	11.93	12.61
November	11.10	- -	11.00	12.63	11.03
December	- -	- -	- -	- -	- -
Average for Season	10.76	11.64	10.86	10.60	10.96
<u>Port Colborne to Montreal</u>					
April			8.50	6.44	- -
May			8.50	6.14	7.33
June			7.87	6.37	6.62
July			7.50	6.42	6.17
August			- -	6.21	5.38
September			7.87	6.15	4.52
October			7.50	6.92	6.61
November			7.27	7.02	6.38
December			- -	- -	6.00
Average for Season			- -	6.41	6.09

FREIGHT TRAFFIC ON SAULT STE. MARIE CANALS
(Canadian & United States Locks)





FREIGHT TRAFFIC
ON THE ST. LAWRENCE AND WELLDAND CANALS



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