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PRELIMINARY REPORT

CANAL STATISTICS

For

1921

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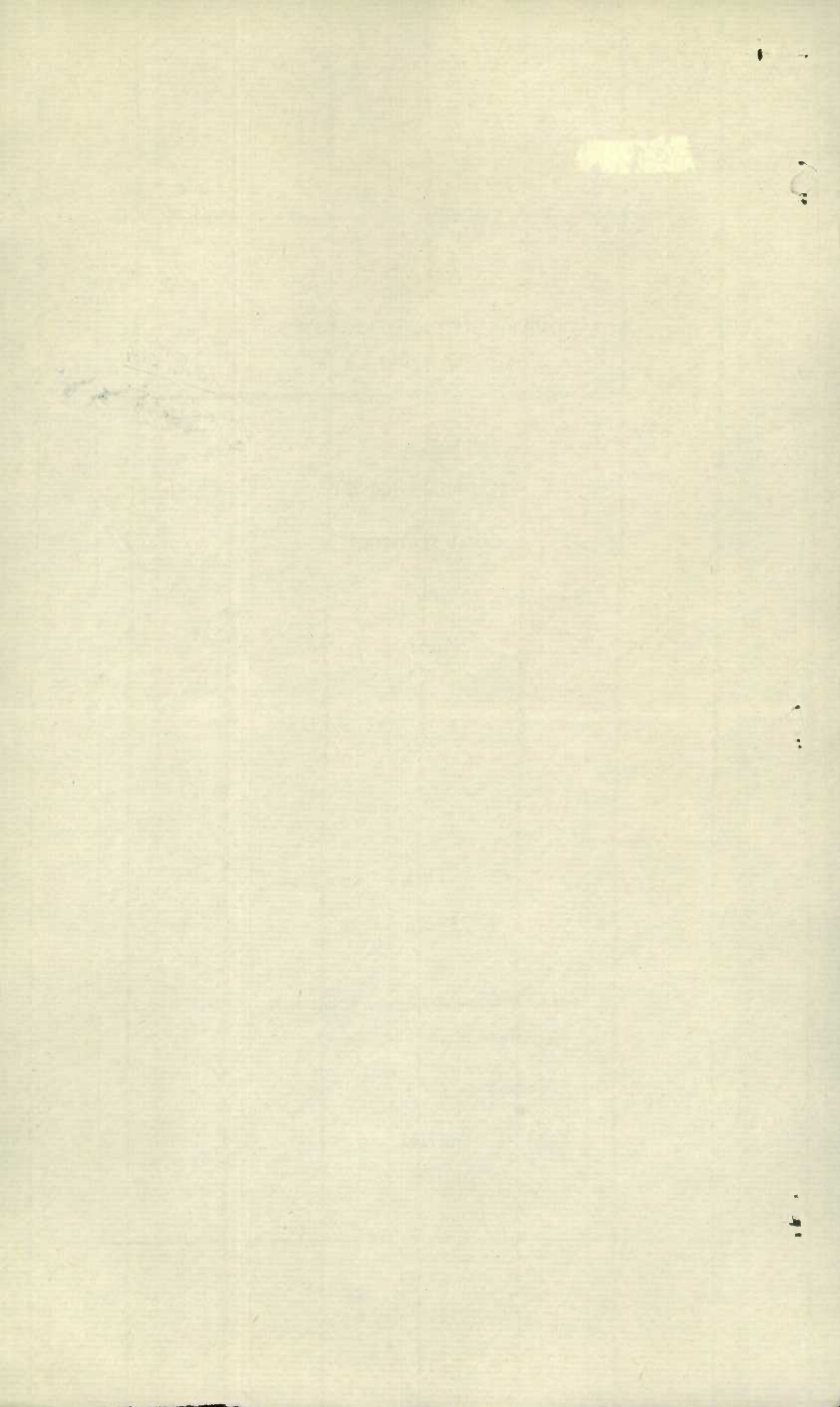
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OTTAWA

1922



DOMINION BUREAU OF STATISTICS.
TRANSPORTATION BRANCH
OTTAWA

Dominion Statistician, R.H.Coats, B.A., F.S.S.
Chief, Transportation Branch, G.S.Wrong, B.Sc.

PRELIMINARY REPORT

ON

CANAL STATISTICS

FOR

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The freight traffic on Canadian canals increased 672,182 tons during 1921 compared with 1920, due to increases on the Welland of 800,894 tons, on the St. Lawrence of 666,103 tons and on the St. Andrews of 456 tons. These increases were due almost entirely to large increases in shipments of grain and lesser increases in shipments of pig iron, iron and steel, petroleum and oil and sugar. The traffic on the Welland and St. Lawrence canals was the heaviest in their histories except for the years 1913 and 1914. There was a decrease on the Canadian Sault Ste. Marie Canal of 480,226 tons due to decreases of 730,568 tons of iron ore, 100,388 tons of soft coal, 42,410 tons of pulpwood and other minor decreases although grain shipments were considerably heavier. There was also a decrease of 30,555,288 tons of freight through the American locks due almost entirely to the slump in iron ore shipments, which decreased from 55,784,496 tons to 22,457,888 tons. The Chambly Canal showed a decrease of 145,042 tons, the largest decreases being pulpwood 83,760 tons and sawed lumber 44,511 tons. The Ottawa canal showed a decrease of 61,560 tons, with a decrease of 56,560 tons in lumber. The Murray canal showed a decrease of 82,052 tons in crushed stone and a total decrease of 90,955 tons. The other canals showed small decreases.

The first and last passage through the canals were as follows:

	<u>First Passage</u>	<u>Last Passage</u>
Sault Ste. Marie - Canadian	April 5	December 16
- American	" 7	" 26
Welland	" 15	" 18
St. Lawrence	" 18	" 14
Chambly	" 15	" 24
Ottawa	" 19	November 24
Rideau	May 1	" 29
Trent	April 5	" 25
Murray	" 14	December 5
St. Peters	" 18	Open Dec. 31
St. Andrews	May 29	October 31

The attached tables of the total traffic on the several canals shows tonnage for each class of commodity on the Sault Ste. Marie, Welland and St. Lawrence canals and only the chief commodities on the other canals. The data on traffic through the American Locks at Sault Ste. Marie shown in the combined report of both the Canadian and American locks was copied from the report of the Superintendent of the American Canal.

FREIGHT TRAFFIC ON CANADIAN CANALS

FOR 1921.

Month	Sault Ste. Marie	Welland	St. Lawrence	Ottawa	Rideau	Trent	Chambly	St. Peters	Murray	St. Andrews	Total by Months
	tons	tons	tons	tons	tons	tons	tons	tons	tons	tons	tons
January								422			422
April	50,405	101,753	81,848	4,632		93	6,510	1,160	1,625		248,026
May	195,701	419,335	515,591	22,354	17,974	7,119	37,371	6,653	11,805	2	1,233,905
June	213,164	467,778	536,976	30,669	15,693	5,274	21,762	8,500	12,300	1,040	1,376,156
July	232,554	520,856	615,588	26,925	13,630	6,237	25,376	6,530	6,900	1,710	1,456,306
August	220,989	469,142	564,088	21,366	13,035	8,107	18,079	8,578	5,800	1,243	1,331,327
September	250,555	435,612	526,671	27,542	12,558	9,383	14,830	7,289	6,650	1,634	1,293,724
October	473,821	386,042	470,043	23,297	14,832	6,591	33,397	7,866	200	602	1,425,691
November	269,077	255,682	333,722	14,984	7,290	1,443	22,955	5,811			910,964
December	88,326	19,756	19,643					3,314			131,044
Total by Canals	1,997,592	3,076,966	3,734,065	171,769	95,012	44,247	180,280	56,123	45,280	6,231	9,407,565
Totals for 1920	2,477,818	2,276,072	3,067,962	233,329	97,837	53,660	325,322	61,373	436,235	5,775	8,735,383
Increase Decrease(-)	-480,226	800,894	666,103	-61,560	-2,825	-9,413	-145,042	-5,250	-90,955	456	672,182

SUMMARY OF TRAFFIC ON SAULT STE. MARIE CANAL.
For year ended December 31.

	1921	1920	Increase Decrease(-)
Vessels - Number	3,863	4,010	-147
Net Tons	3,791,392	5,141,206	-1,349,814
Canadian Steam-Net Tons	2,632,525	2,341,886	290,639
Canadian Sail - " "	43,795	73,889	-30,094
United States Steam-Net tons	1,109,388	2,700,783	-1,591,395
United States Sail - " "	5,684	24,048	-18,364
Passengers - Number	42,767	43,455	-688
<u>Commodities</u>			
Barley	112,634	82,726	29,908
Buckwheat	...	...	...
Corn	19,805	...	19,805
Oats	318,438	117,403	201,035
Rye	18,012	71,727	-53,715
Flax	20,818	19,884	934
Peas	...	...	...
Wheat	458,944	505,772	-46,828
Flour	446,910	246,095	200,815
Hay	...	36	-36
Other Mill Products	41,069	1,897	39,172
Fruit and Vegetables	498	392	106
Potatoes	...	...	...
Live Stock	...	1	-1
Poultry, Game, Fish	302	176	126
Dressed Meats	...	...	...
Other P.H. Products	695	1,416	-721
Hides and Leather	...	...	...
Wool	15	43	-28
Other Animal Products	...	...	...
Agricultural Implements	9,360	2,005	7,355
Cement, Brick, Lime	9,545	...	9,545
H.H. Gds. and Furniture	7	1	6
Iron, Pig-Iron	1,395	4,778	-3,383
Iron, Steel	10,148	16,626	-6,478
Petroleum-Other Oils	671	2,403	-1,732
Sugar	14,513	5,085	9,428
Salt	7,205	10,221	-3,116
Liquors, Etc.	125	536	-411
Merchandise	205,653	228,524	-22,866
Pulpwood	6,008	48,418	-42,410
Sawed Lumber	35,568	5,040	30,528
Squared Timber	1,330	26	1,304
Shingles	2,097	380	1,717
Other Wood	577	40	537
Hard Coal	10,908	14,200	-3,292
Soft Coal	92,203	192,591	-100,388
Coke	...	2,300	-2,300
Copper Ore	6,018	6,576	-558
Iron Ore	127,615	858,183	-730,568
Other Ore	2,241	...	2,241
Sand	16,060	32,317	-16,257
Total	1,997,592	2,477,818	-480,226
U.S. Canal.	46,256,524	76,201,812	-30,545,288
Grand Total	48,254,116	79,279,630	-31,025,514

TRAFFIC THROUGH CANADIAN AND UNITED STATES CANALS

SAULT STE. MARIE

For year ended December 31.

	1921	1920	Increase Decrease (2)
Vessels - Number	12,824	18,848	-6,024
Net Tons	32,187,795	58,196,498	-26,008,703
Passengers - Number	66,671	68,454	-1,783
Lumber M. Ft. B. M.	206,306	192,854	13,452
Flour - Barrels	10,219,335	7,474,372	2,744,963
Wheat - Bushels	197,498,186	143,354,015	54,144,171
Other Grain - Bushels	^{95,113,956} 94,406,672	51,829,660	^{43,284,326} 42,577,012
Copper - Tons	30,560	47,779	-17,219
Iron Ore - "	22,585,503	56,642,679	-34,057,176
Iron (Mfg. or Pig) - Tons	42,730	81,327	-38,597
Coal Soft - "	12,507,032	12,096,887	410,145
Coal Hard - "	2,256,138	2,056,966	199,172
Salt - "	64,203	99,370	-35,167
Oil - "	302,303	355,891	-53,588
Stone - "	491,056	560,226	-69,170
General Mds. - "	608,641	542,146	66,495
TOTAL - "	48,254,116	79,279,630	-31,025,514

SUMMARY OF TRAFFIC ON WELLAND CANAL

For year ended December 31.

	1921	1920	Increase Decrease(-)
Vessels - Number	3,770	3,124	646
- Net Tons	3,329,371	2,528,256	801,115
Canadian Steam - Net Tons	2,510,304	1,755,933	754,371
Canadian Sail - " "	250,924	257,824	-6,900
United States Steam " "	562,225	446,430	115,795
United States Sail " "	5,918	68,009	-62,091
Passengers - Number	...	...	...
<u>Commodities</u>	<u>tons</u>	<u>tons</u>	<u>tons</u>
Barley	53,619	45,837	7,782
Buckwheat	1,673	...	1,673
Corn	758,383	10,607	747,776
Oats	138,478	17,252	122,226
Rye	50,138	4,494	45,644
Flax	9,660	2,552	7,108
Peas	...	...	...
Wheat	859,486	356,547	502,939
Flour	2,000	1,050	950
Hay	...	...	...
Other Mill Products	...	...	...
Fruit and Vegetables	...	...	...
Potatoes	...	...	...
Live Stock	...	...	...
Poultry, Game, Fish	...	...	...
Dressed Meats	...	...	...
Other P.H. Products	...	...	...
Hides and Leather	...	10	-10
Wool	...	...	...
Other Animal Products	...	...	...
Agricultural Implements	9,482	3,050	6,432
Cement, Brick, Lime	1,930	30,400	-28,470
H.H.Gds, and Furniture	...	...	...
Iron, Pig-Bloom	3,718	3,695	23
Iron, Steel	21,500	5,035	16,465
Petroleum-Other Oils	104,415	107,205	-2,790
Sugar	11,379	3,386	7,993
Salt	...	...	...
Liquors, Etc.	116	270	-154
Merchandise	52,149	52,123	26
Pulpwood	150,428	166,178	-15,750
Sawed Lumber	4,653	3,975	678
Squared Timber	...	...	...
Shingles	...	...	...
Other Wood	...	...	...
Hard Coal	92,815	...	92,815
Soft Coal	680,452	1,383,361	-702,909
Coke	4,700	...	4,700
Copper Ore	1,561	750	811
Iron Ore	...	...	...
Other Ore	2,241	...	2,241
Sand	60,940	78,195	-17,255
Total	3,076,966	2,276,072	800,894

SUMMARY OF TRAFFIC ON ST. LAWRENCE CANAL

For year ended December 31.

	1921	1920	Increase Decrease(-)
Vessels - Number	9,211	6,958	2,253
- Net Tons	4,484,843	3,675,279	809,564
Canadian Steam - Net tons	3,197,878	2,419,075	778,803
Canadian Sail - " "	741,355	813,954	-72,599
United States Steam - Net Tons	529,975	412,489	118,486
United States Sail - " "	15,635	30,761	-15,126
Passengers - Number	56,905	62,397	-5,492
<u>Commodities</u>	<u>tons</u>	<u>tons</u>	<u>tons</u>
Barley	58,062	45,756	12,306
Buckwheat	3	3	...
Corn	773,671	8,533	765,138
Oats	141,054	19,890	121,164
Rye	50,188	2,744	47,444
Flax	10,210	5,327	4,883
Peas	26	...	26
Wheat	852,780	384,840	467,940
Flour	4,149	2,478	1,671
Hay	4,034	8,849	-4,815
Other Mill Products	783	857	-74
Fruit and Vegetables	1,506	602	904
Potatoes	347	506	-159
Live Stock	454	387	67
Poultry, Game, Fish	40	134	-94
Dressed Meats	3	4	-1
Other P.H. Products	1,073	195	878
Hides and Leather	14	19	45
Wool	2	5	-3
Other Animal Products	3,625	3,059	566
Agricultural Implements	480	239	241
Cement, Brick, Lime	4,117	17,973	-13,856
H. H. Gds. and Furniture	2,545	2,909	-364
Iron, Pig-Bloom	2,399	3,506	-1,107
Iron, Steel	33,962	8,320	25,642
Petroleum-Other Oils	132,366	61,863	70,503
Sugar	29,987	7,792	22,195
Salt	1,565	1,112	453
Liquors, etc.	8,358	1,982	376
Merchandise	85,865	102,161	-16,296
Pulpwood	299,425	408,475	-109,050
Sawed Lumber	55,298	116,641	-61,343
Squared Timber	1,657	1,851	-194
Shingles	202	...	202
Other wood	6,830	4,139	2,691
Hard Coal	228,816	270,988	-42,172
Soft Coal	763,576	1,416,441	-652,865
Coke	4,700	...	4,700
Copper Ore	1,561	750	811
Iron Ore	...	...	...
Other Ore	3,238	...	3,238
Sand	171,094	156,632	14,462
Total	3,734,065	3,067,962	666,103

SUMMARY OF TRAFFIC ON CANADIAN CANALS

For year ended December 31.

	1921	1920	Increase Decrease (-)
<u>CHAMBLY CANAL</u>			
Vessels - Number	1,238	1,795	557
- Net Tons	146,800	212,644	-65,844
Passengers - Number	1,149	1,206	-57
Hay - Tons	4,232	15,023	-10,791
Fruit & Vegetables - Tons	291	1,537	- 1,346
Pulpwood - "	18,344	102,204	-83,760
Sawed Lumber - "	47,086	91,597	-44,511
Other Wood - "	3,958	10,159	- 6,201
Hard Coal - "	84,663	71,901	12,762
Sand - "	5,631	7,586	- 1,955
Merchandise & Misc. - "	16,075	25,215	- 9,240
Total Freight - Tons	180,260	325,322	-145,062
<u>OTTAWA CANAL</u>			
Vessels - Number	1,807	1,551	256
- Net Tons	240,599	269,129	-28,530
Passengers - Number	11,130	19,195	- 8,065
Sawed Lumber - Tons	41,453	98,023	-56,560
Other Wood - Tons	6,268	6,065	203
Sand - Tons	93,931	97,355	-3,424
Merchandise and Misc. - Tons	30,117	31,896	--1,779
Total freight - Tons	171,769	233,329	-61,560
<u>RIDEAU CANAL</u>			
Vessels - Number	1,443	1,718	-275
- Net Tons	100,036	119,875	-19,839
Passengers - Number	11,484	14,735	-3,301
Pulpwood - Tons	1,072	27	1,045
Sawed Lumber - "	2,070	6,739	-4,669
Hard Coal - "	2,9999	1,025	1,9874
Soft Coal - "	55	1,820	-1,765
Sand - "	70,693	66,445	4,248
Merchandise and Misc. Tons	18,123	21,791	-3,668
Total Freight - Tons	95,012	97,637	-2,625
<u>TRENT CANAL</u>			
Vessels - Number	5,215	5,568	-353
- Net Tons	153,115	160,721	-7,606
Passengers - Number	100,049	97,849	2,200
Wheat - Tons	1,192	1,656	-464
Pulpwood - "	15,802	7,460	8,342
Sawed Lumber - "	3,467	9,397	-5,930
Squared Timber - Tons	3,028	4,117	-1,089
Other Wood - "	17,328	28,444	-11,116
Merchandise and Misc.	3,430	2,536	894
Total Freight - Tons	44,247	53,660	-9,423



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SUMMARY OF TRAFFIC ON CANADIAN CANALS

For year ended December 31.

	1921	1920	Increase Decrease (-)
<u>MIRRAY CANAL</u>			
Vessels - Number	485	784	-299
- Net Tons	58,871	143,624	-84,753
Passengers- Number	7,104	3,414	3,690
Sand & Stone - Tons	44,390	126,442	-82,052
Merchandise & Misc. - Tons	890	9,793	-8,903
Total Freight- Tons	45,280	136,235	-90,955
<u>ST. PETERS CANAL</u>			
Vessels - Number	1,097	1,202	-105
- Net Tons	77,025	83,432	-6,407
Passengers - Number	757	1,881	-1,124
Flour - Tons	1,882	1,130	752
Poultry, Game, Fish - Tons	2,529	1,460	1,069
Cement, Brick & Lime - Tons	1,548	1,057	491
Soft Coal - Tons	34,443	41,135	-6,693
Sand - "	1,586	555	1,031
Merchandise and Misc. - "	14,135	16,035	-1,900
Total Freight - Tons	56,123	61,373	-5,250
<u>ST. ANDREWS CANAL</u>			
Vessels - Number	#560	154	406
- Net Tons	27,514	26,367	1,147
Passengers - Number	7,202	4,231	2,971
Sawed Lumber - Tons	2,950	1,731	1,219
Other Woods @ Tons	2,472	3,507	-735
Merchandise and Misc. - Tons	509	507	2
Total Freight - Tons	6,231	5,775	456

- Includes 457 small sail boats, gasoline launches, Etc.