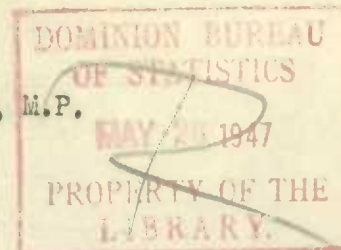


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SUMMARY OF CANAL TRAFFIC

20-4300

APRIL, 1947

Historical File Copy

The first passage through the Canadian lock at Sault Ste. Marie in 1947 was on April 15 and through the United States locks on April 10; whereas last year the first lockage was on March 25. Despite the later opening of navigation a heavy movement of downbound iron ore of 3,684,207 tons as against 540,397 tons in 1946 and of upbound coal of 455,493 tons compared with 330,849 tons in 1946, raised the total traffic to 4,766,544 tons as compared with 1,898,704 tons in April 1946.

Welland Ship Canal: Navigation opened on March 24, four days earlier than in 1946, but no freight was shipped through in March. Freight traffic for April amounted to 479,896 tons as against 645,976 tons in April 1946. Wheat, barley, oats, rye and flax were all lighter than last year. Gasoline was down by 28,662 tons, petroleum and other oils by 101,441 tons, but bituminous coal down the canal increased from 65,457 to 176,535 tons.

St. Lawrence Canals: Navigation opened on April 19, one week later than in 1946, and freight using the canals declined from 266,182 tons in 1946 to 206,335 tons. All grains except corn showed decreases, and the only large increase was in bituminous coal, from 20,698 to 108,321 tons.

Sault Ste. Marie Canals

1947 : 1946

		1947		1946	
<u>EAST BOUND</u>		Canadian Lock	Canadian & U.S. Locks	Canadian Lock	Canadian & U.S. Locks
Pulpwood	Short Tons	1,810	1,810	4,880	4,880
Lumber	" "	-	-	-	-
Flour	" "	500	500	3,919	3,919
Wheat	" "	33,603	346,922	37,809	485,086
Other Grain	" "	23,876	110,891	82,519	297,597
Copper	" "	-	-	-	-
Iron Ore	" "	-	3,684,207	-	540,397
Scrap Iron	" "	-	-	-	16,720
Structural Steel	" "	5,543	5,543	-	-
Stone	" "	-	-	-	-
Other Freight	" "	13,928	13,928	9,633	13,708
Total	" "	79,260	4,163,801	138,760	1,362,307
Passengers	Number	4	11	21	25

WEST BOUND

Coal, soft	Short Tons	14,468	455,493	13,363	330,849
Coal, hard	" "	-	13,876	-	26,286
Coke	" "	-	-	4,996	4,996
Iron ore	" "	-	28,336	-	-
Structural Steel	" "	231	2,847	276	276
Salt	" "	3,096	3,096	2,706	9,243
Oil and Gasoline	" "	3,726	24,500	14,948	78,385
Stone	" "	-	50,750	-	45,103
Other Freight	" "	22,932	23,845	32,045	41,259
Total	" "	44,453	602,743	68,334	536,397
Passengers	Number	11	17	26	45

Total Freight	Short Tons	123,713	4,766,544	207,094	1,898,704
Total Passengers	Number	15	28	47	70
Number of Vessels		132	1,033	203	682
Registered Tonnage	Net	294,698	4,558,674	353,595	1,805,518

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The first page of the report is devoted to a summary of the work done during the year. It is followed by a description of the apparatus used in the experiments. The results of the experiments are given in the following tables.

The following table gives the results of the experiments. The first column gives the number of the experiment, the second column gives the value of the quantity measured, and the third column gives the error in the measurement.

The following table gives the results of the experiments. The first column gives the number of the experiment, the second column gives the value of the quantity measured, and the third column gives the error in the measurement.

Experiment No.	Quantity Measured	Error
1	1.23	±0.02
2	2.45	±0.04
3	3.67	±0.06
4	4.89	±0.08
5	6.11	±0.10
6	7.33	±0.12
7	8.55	±0.14
8	9.77	±0.16
9	10.99	±0.18
10	12.21	±0.20

Experiment No.	Quantity Measured	Error
11	13.43	±0.22
12	14.65	±0.24
13	15.87	±0.26
14	17.09	±0.28
15	18.31	±0.30
16	19.53	±0.32
17	20.75	±0.34
18	21.97	±0.36
19	23.19	±0.38
20	24.41	±0.40

Welland Ship Canal:

		<u>April, 1947</u>	<u>April, 1946</u>
Vessels	No.	247	429
Registered Tonnage	Tons	467,490	608,267
Passengers	No.	-	-
Barley	Tons	27,867	55,203
Corn	"	7,540	-
Oats	"	6,391	53,647
Rye	"	-	6,038
Wheat	"	58,109	116,558
Flour	"	-	-
Gasoline	"	53,999	82,661
Petroleum and other Oils	"	70,164	171,605
Sugar	"	-	464
Pulpwood	"	-	-
Autos and Parts	"	114	43
Paper	"	13,900	33,014
Wood Pulp	"	-	-
Soft Coal	"	176,535	65,457
Coke	"	-	4,400
Iron Ore	"	-	-
Sand	"	15,050	13,800
All other freight	"	50,227	43,086
Total Freight	"	<u>479,896</u>	<u>645,976</u>

St. Lawrence Canals:

Vessels	No.	218	333
Registered Tonnage	Tons	179,171	240,446
Passengers	No.	-	-
Barley	Tons	-	34,756
Corn	"	5,083	-
Oats	"	-	40,744
Rye	"	-	6,068
Wheat	"	14,676	69,255
Flour	"	-	-
Gasoline	"	22,180	26,146
Petroleum and other Oils	"	11,634	12,830
Sugar	"	684	5,964
Pulpwood	"	-	-
Autos and Parts	"	213	16
Paper	"	1,900	2,750
Wood Pulp	"	-	-
Hard Coal	"	-	1,015
Soft Coal	"	108,321	20,698
Sand	"	7,320	12,289
All other freight	"	34,324	33,651
Total Freight	"	<u>206,335</u>	<u>266,182</u>

		<u>Ottawa River Canal</u>		<u>Rideau Canal</u>		<u>Richelieu River Canal</u>	
		1947	1946	1947	1946	1947	1946
Vessels	No.	49	54	-	-	3	-
Registered Tonnage	Tons	11,118	16,434	-	-	600	-
Passengers	No.	-	-	-	-	-	-
Total Freight	Tons	8,550	13,621	-	-	665	-
Pleasure Craft Lockages		-	1	-	-	-	-
		<u>Trent Canal</u>		<u>Murray Canal</u>		<u>St. Peter's Canal</u>	
		1947	1946	1947	1946	1947	1946
Vessels	No.	-	31	-	13	80	49
Registered Tonnage	Tons	-	1,594	-	969	4,538	1,013
Passengers	No.	-	-	-	-	-	-
Total Freight	Tons	-	1,071	-	2,280	3,150	792
Pleasure Craft Lockages		-	34	-	23	-	-
		<u>St. Andrew's Canal</u>		<u>All Canadian Canals</u>			
		1947	1946	1947	1946		
Vessels	No.	-	-	729	1,112		
Registered Tonnage	Tons	-	-	957,615	1,222,318		
Passengers	No.	-	-	15	47		
Total Freight	Tons	-	-	822,309	1,137,016		
Pleasure Craft Lockages		-	-	-	58		



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