



SUMMARY OF CANAL TRAFFIC

OCTOBER, 1950

Freight traffic through the Canadian canal systems during October advanced to a near record for the month of 3,819,231 tons. Compared with the same period of 1949, an increase of 999,008 tons or 35.4 p.c. was registered. The previous high was in 1938 when the October total reached 3,889,192 tons. At that time a huge movement of wheat was experienced. Some 4,116 vessels were locked through during the month under review compared with 2,883 in October of 1949. Commodities which were featured in the general advance included soft coal, oil and gasoline, iron ore, pulpwood and miscellaneous freight.

Sault Ste. Marie Canals - Canadian and United States Locks: Traffic through the combined systems totalled 15,800,755 tons in both directions compared with only 4,438,079 tons for the preceding October when coal and other strikes had restricted activity in the United States. Eastbound volume rose from 3,927,323 to 13,181,268 tons as iron ore jumped spectacularly to 11,989,678 tons against 2,044,826 tons one year earlier. Pulpwood, lumber, flour, scrap iron, steel and other freight downbound were also higher while wheat dropped from 1,222,030 to 774,067 tons and other grains from 553,180 to 278,460 tons. Stone eased from 16,004 to 8,300 tons. The westbound traffic registered a wide gain from 510,756 to 2,619,487 tons as soft coal totalled 1,992,591 tons against only 123,604 tons one year previously. Iron ore, steel, salt and stone registered increases. Hard coal and other freight were reduced with oil and gasoline down slightly. Canadian locks handled 366,107 tons during October against 224,577 tons in the same month of 1949. Vessels through the combined U.S. - Canadian locks numbered 2,999 for the month or 1,670 more than in October, 1949.

Welland Ship Canal: Traffic during October showed a splendid advance of 51.5 p.c. at 2,027,890 tons compared with 1,338,280 tons in the corresponding month of the previous year. Vessels passing increased from 761 to 1,845. Volume was much heavier in barley, corn, rye and flour, while gasoline rose from 79,773 to 132,893 tons. Pulpwood gained 5,084 tons to 75,298, paper advanced from 31,815 to 50,919 tons and woodpulp from 3,524 to 8,122 tons. Soft coal recovered from 64,524 to 659,294 tons and iron ore from 34,457 to 265,897 tons. All other freight grossed 198,867 tons or 48,825 tons above the total for October, 1949.

St. Lawrence Canals: Volume continued good throughout the month and 1,362,998 tons of freight were recorded, a gain of 13.37 p.c. or 160,690 tons over the preceding October. Barley, rye, flaxseed and flour advanced. Petroleum and

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other oils rose from 83,901 to 155,437 tons, or by 71,536 tons. Iron and steel, autos, paper, lumber, woodpulp and pulpwood registered large increases with the latter up 57,150 tons to 112,344 tons. Soft coal jumped from a strike bound 29,288 tons to 346,256 tons. Iron ore totalled 57,866 tons compared with 4,255 tons one year earlier. South American ore upbound accounted for most of the current movement. Sand, gravel and stone rose 13,840 tons to 43,410 for the month while all other freight weighed 128,001 tons compared with 111,014 in the preceding October.

The minor canals showed heavier volume on the Ottawa and St. Andrew's.

<u>Sault Ste. Marie Canals:</u>		1 9 5 0		1 9 4 9	
		Canadian Lock	Canadian & U.S. Locks	Canadian Lock	Canadian & U.S. Locks
<u>EAST BOUND</u>					
Pulpwood	Tons	15,086	36,180	1,808	32,008
Lumber	"	300	300	-	-
Flour	"	9,547	9,547	4,313	4,313
Wheat	"	52,688	774,067	15,343	1,222,030
Other Grain	"	92,466	278,460	88,205	553,180
Copper and Zinc	"	-	-	-	-
Iron Ore	"	-	11,989,678	-	2,044,826
Scrap Iron	"	-	19,231	-	-
Structural Steel	"	-	27,693	-	17,966
Stone	"	8,300	8,300	7,000	16,004
Other Freight	"	37,805	37,812	35,319	36,996
Total	"	216,192	13,181,268	151,988	3,927,323
Passengers	Number	29	87	62	130
<u>WEST BOUND</u>					
Coal, soft	Tons	47,921	1,992,591	7,115	123,604
Coal, hard	"	2,900	60,459	5,723	33,527
Coke	"	-	-	-	-
Iron Ore	"	-	38,890	-	-
Structural Steel	"	459	7,749	35	3,723
Salt	"	78	15,985	167	6,999
Oil and Gasoline	"	37,879	108,750	8,180	109,321
Stone	"	-	306,098	-	90,446
Other Freight	"	60,678	88,965	51,369	93,136
Total	"	149,215	2,619,487	72,569	510,756
Passengers	Number	53	117	53	101
Total Freight	Tons	366,107	15,800,755	224,577	4,438,079
Total Passengers	Number	82	204	115	231
Number of Vessels		377	2,999	299	1,329
Registered Tonnage	Net	558,642	12,134,934	401,949	3,590,180

The following table shows the results of the experiments conducted on the 15th of June 1885. The first column gives the number of the experiment, the second column the time taken for the reaction to take place, the third column the amount of gas evolved, and the fourth column the temperature of the gas.

Exp. No.	Time	Gas Evolved	Temp. of Gas
1	1.2	1.5	25.0
2	1.5	1.8	25.5
3	1.8	2.1	26.0
4	2.1	2.4	26.5
5	2.4	2.7	27.0
6	2.7	3.0	27.5
7	3.0	3.3	28.0
8	3.3	3.6	28.5
9	3.6	3.9	29.0
10	3.9	4.2	29.5
11	4.2	4.5	30.0
12	4.5	4.8	30.5
13	4.8	5.1	31.0
14	5.1	5.4	31.5
15	5.4	5.7	32.0
16	5.7	6.0	32.5
17	6.0	6.3	33.0
18	6.3	6.6	33.5
19	6.6	6.9	34.0
20	6.9	7.2	34.5
21	7.2	7.5	35.0
22	7.5	7.8	35.5
23	7.8	8.1	36.0
24	8.1	8.4	36.5
25	8.4	8.7	37.0
26	8.7	9.0	37.5
27	9.0	9.3	38.0
28	9.3	9.6	38.5
29	9.6	9.9	39.0
30	9.9	10.2	39.5
31	10.2	10.5	40.0
32	10.5	10.8	40.5
33	10.8	11.1	41.0
34	11.1	11.4	41.5
35	11.4	11.7	42.0
36	11.7	12.0	42.5
37	12.0	12.3	43.0
38	12.3	12.6	43.5
39	12.6	12.9	44.0
40	12.9	13.2	44.5
41	13.2	13.5	45.0
42	13.5	13.8	45.5
43	13.8	14.1	46.0
44	14.1	14.4	46.5
45	14.4	14.7	47.0
46	14.7	15.0	47.5
47	15.0	15.3	48.0
48	15.3	15.6	48.5
49	15.6	15.9	49.0
50	15.9	16.2	49.5
51	16.2	16.5	50.0
52	16.5	16.8	50.5
53	16.8	17.1	51.0
54	17.1	17.4	51.5
55	17.4	17.7	52.0
56	17.7	18.0	52.5
57	18.0	18.3	53.0
58	18.3	18.6	53.5
59	18.6	18.9	54.0
60	18.9	19.2	54.5
61	19.2	19.5	55.0
62	19.5	19.8	55.5
63	19.8	20.1	56.0
64	20.1	20.4	56.5
65	20.4	20.7	57.0
66	20.7	21.0	57.5
67	21.0	21.3	58.0
68	21.3	21.6	58.5
69	21.6	21.9	59.0
70	21.9	22.2	59.5
71	22.2	22.5	60.0
72	22.5	22.8	60.5
73	22.8	23.1	61.0
74	23.1	23.4	61.5
75	23.4	23.7	62.0
76	23.7	24.0	62.5
77	24.0	24.3	63.0
78	24.3	24.6	63.5
79	24.6	24.9	64.0
80	24.9	25.2	64.5
81	25.2	25.5	65.0
82	25.5	25.8	65.5
83	25.8	26.1	66.0
84	26.1	26.4	66.5
85	26.4	26.7	67.0
86	26.7	27.0	67.5
87	27.0	27.3	68.0
88	27.3	27.6	68.5
89	27.6	27.9	69.0
90	27.9	28.2	69.5
91	28.2	28.5	70.0
92	28.5	28.8	70.5
93	28.8	29.1	71.0
94	29.1	29.4	71.5
95	29.4	29.7	72.0
96	29.7	30.0	72.5
97	30.0	30.3	73.0
98	30.3	30.6	73.5
99	30.6	30.9	74.0
100	30.9	31.2	74.5

Welland Ship Canal

October, 1950

October, 1949

Vessels	No.	1,845	761
Registered Tonnage	Tons	1,735,390	1,170,944
Passengers	No.	-	-
Barley	Tons	78,004	45,385
Corn	"	47,096	45,532
Oats	"	26,565	41,821
Rye	"	2,069	-
Wheat	"	284,298	568,958
Flour	"	3,362	1,301
Gasoline	"	132,893	79,773
Petroleum and other Oils	"	167,138	171,312
Sugar	"	1,420	6,932
Pulpwood	"	75,998	70,914
Autos and Parts	"	233	234
Paper	"	50,319	31,815
Wood Pulp	"	3,122	3,524
Soft Coal	"	652,294	64,524
Coke	"	6,250	-
Iron Ore	"	265,897	34,457
Sand	"	19,465	22,190
All other freight	"	198,867	150,042
Total Freight	"	2,027,890	1,338,280

St. Lawrence Canals:

Vessels	No.	1,405	1,266
Registered Tonnage	Tons	1,038,572	1,056,237
Passengers	No.	-	-
Barley	Tons	45,342	38,048
Corn	"	20,764	45,664
Oats	"	8,367	25,107
Rye	"	2,070	-
Wheat	"	213,805	562,218
Flour	"	2,070	1,301
Gasoline	"	118,700	141,134
Petroleum and other Oils	"	155,437	83,901
Sugar	"	2,730	6,525
Pulpwood	"	112,344	55,194
Autos and Parts	"	1,736	689
Paper	"	34,620	18,542
Wood Pulp	"	8,174	6,559
Hard Coal	"	-	4,274
Soft Coal	"	346,256	29,288
Sand	"	43,410	29,570
All other freight	"	246,223	154,294
Total Freight	"	1,362,998	1,202,308

		Ottawa River Canal		Rideau Canal	
		1950	1949	1950	1949
Vessels	No.	147	145	17	11
Registered Tonnage	Tons	47,105	37,248	579	342
Passengers	No.	-	-	1/ 2/ 67	51
Total Freight	Tons	41,633	31,712	123	205
Pleasure Craft		269	505	784	939
		Richelieu River Canal		Trent Canal	
Vessels	No.	91	127	21	- 59
Registered Tonnage	Tons	13,606	18,818	213	-
Passengers	No.	-	5	x -	-
Total Freight	Tons	14,495	18,596	131	154
Pleasure Craft		-	-	481	391
		Murray Canal		St. Peter's Canal	
Vessels	No.	8	4	52	83
Registered Tonnage	Tons	4,568	259	2,913	4,366
Passengers	No.	-	-	-	4
Total Freight	Tons	-	-	1,013	1,454
Pleasure Craft		46	60	21	14
		St. Andrew's Canal		All Canadian Canals	
Vessels	No.	153	128	4,116	2,883
Registered Tonnage	Tons	15,920	13,166	3,477,508	2,703,329
Passengers	No.	106	113	255	288
Total Freight	Tons	4,841	2,937	3,819,231	2,820,223
Pleasure Craft		55	70	1,656	1,978

1/ Exclusive of 289 passengers on sight-seeing pleasure boat cruises.

2/ Exclusive of 1,697 passengers on pleasure crafts.

x 1,343 passengers carried in small boats. One passenger through one lock recorded as "1".



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