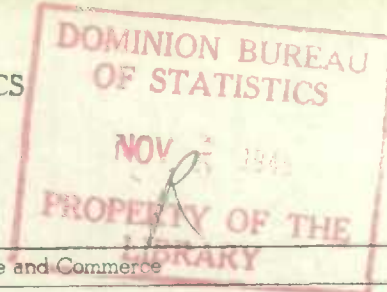




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SUMMARY OF CANAL TRAFFIC

SEPTEMBER, 1949

The tonnage of freight passing through all Canadian canals during September was 3,226,935 tons and compares with 3,290,411 tons in the corresponding month of 1948, a decline of 63,476 tons or 1.9 p.c., which was due to the reduced movement of soft coal, which more than offset gains in wheat and other commodities. There were 2,956 vessels using the canals as against 3,197 in September last year, while passenger traffic was less than half 1948 volume at 7,017 due to reduction in sailings through the Sault canals. Pleasure craft totalled 3,662 compared with 3,941 a year earlier.

Sault Ste. Marie Canals - Canadian and United States Locks: All traffic through the combined systems aggregated 13,004,491 tons during the month, a decrease of 2,465,887 tons or 16 p.c. from the previous September. Soft coal, westbound, dropped from 2,566,232 to 969,299 tons reflecting slow-downs and strikes in the eastern fields, while hard coal tonnage eased from 50,804 to 16,493 tons. The total of westbound traffic was reduced from 3,017,896 to 1,323,567 tons as only coke, steel and salt gained over the previous September. Eastbound volume was better maintained at 11,680,924 tons, off 7 p.c. from the 12,452,482 tons locked through last year. Wheat moved up from 765,124 to 1,304,561 tons and other grains, structural steel, and other freight improved. Downbound iron ore receded 1,293,505 tons at 9,945,328 tons for the month, while lumber, pulpwood, scrap iron and stone were lighter. The Canadian lock had 373 vessels during the month against 526 in September, 1948, while the American system handled 2,474 compared with 2,607 one year earlier.

Welland Ship Canal: Traffic through the Welland declined slightly from the corresponding month of 1948, the tonnage having been 1,814,735 against 1,838,629 tons. Vessels passing rose from 870 to 954, but passengers were reduced from 1,432 to 1,040. Gains were registered in barley, corn, oats, wheat, flour, petroleum and other oils, sugar and paper. The wheat movement rose from 191,672 to 619,216 tons, corn from 518 to 48,706 tons, oats from 2,249 to 48,213 tons and petroleum from 146,127 to 171,441 tons. Paper was up 9,106 tons at 30,052. Declines were shown in rye, gasoline, pulpwood, woodpulp, soft coal down from 744,498 to 362,474 tons, coke, iron ore off from 257,880 to 119,905 tons, and in sand. Passengers numbered 1,040 against 1,432 one year earlier. The Neronic disaster at Toronto on September 17th likely contributed to the reduction, as this vessel was scheduled to use the canal.

St. Lawrence Canals: Total freight through the system totalled 1,142,448 tons during September, an advance of 4,449 tons over the preceding year. Corn increased nearly 41,000 tons, and oats aggregated 51,995 tons against none in September, 1948. Wheat rose from 86,071 to 373,362 tons, while flour, gasoline, sugar, autos, paper, sand and other freight improved in volume. Decreases were mainly in rye, barley, petroleum and other oils, down from 125,452 to 48,990 tons, pulpwood, woodpulp, hard coal and soft coal, which dropped some 323,900 tons to 145,529 tons due to labor trouble in the United States. Weather conditions during the month were not conducive to passenger traffic, passengers numbering 1,167 compared with 2,022 in the previous September.

8/11/49

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The first part of the paper discusses the general principles of the theory of the atom, and the second part discusses the experimental results of the experiment.

The results of the experiment show that the theory of the atom is in good agreement with the experimental results, and that the theory is able to predict the results of the experiment with a high degree of accuracy.

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Sault Ste. Marie Canals:

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EAST BOUND

Canadian : Canadian & : Canadian : Canadian &
Lock : U.S. Locks : Lock : U.S. Locks

Lumber	Tons	-	-	-	-
Pulpwood	"	6,820	41,120	23,722	105,636
Flour	"	9,123	9,123	12,265	12,265
Wheat	"	26,192	1,304,561	17,315	765,124
Other Grains	"	66,799	319,520	62,374	281,986
Copper and Zinc	"	-	-	-	-
Iron Ore	"	-	9,945,328	-	11,238,833
Scrap Iron	"	-	7,383	-	11,779
Structural Steel	"	-	18,081	-	5,990
Stone	"	5,800	5,800	7,820	8,022
Other Freight	"	26,781	30,008	22,847	22,847
Total	"	141,515	11,680,924	146,343	12,452,482
Passengers	Number	3,397	5,412	8,235	9,189

WEST BOUND

Coal, soft	Tons	18,350	969,299	27,650	2,566,232
Coal, hard	"	2,899	16,493	4,740	50,804
Coke	"	4,323	4,323	-	-
Iron Ore	"	-	6,048	-	8,400
Structural Steel	"	344	4,004	92	3,912
Salt	"	216	5,001	209	209
Oil and Gasoline	"	9,174	130,522	34,349	137,160
Stone	"	-	120,211	-	172,951
Other Freight	"	40,932	67,666	53,877	78,228
Total	"	76,838	1,323,567	109,917	3,017,896
Passengers	Number	946	4,533	2,021	8,308
Total Freight	Tons	218,353	13,004,491	256,260	15,470,378
Total Passengers	Number	4,343	9,945	10,256	17,497
Number of Vessels		373	2,847	526	3,133
Registered Tonnage	Net	444,976	10,703,124	555,791	10,994,061

Welland Ship Canal:

September, 1949

September, 1948

Vessels	No.	954	870
Registered Tonnage	Tons	1,598,734	1,644,158
Passengers	No.	1,040	1,432
Barley	Tons	51,061	39,646
Corn	"	48,706	518
Oats	"	48,213	2,249
Rye	"	572	13,863
Wheat	"	619,216	191,672
Flour	"	837	610
Gasoline	"	78,071	111,576
Petroleum and other Oils	"	171,441	146,127
Sugar	"	4,472	3,894
Pulpwood	"	93,211	107,948
Autos and Parts	"	416	423
Paper	"	30,052	20,946
Wood Pulp	"	2,000	4,566
Soft Coal	"	362,474	744,498
Coke	"	1,323	9,208
Iron Ore	"	119,905	257,880
Sand	"	41,321	42,154
All other freight	"	129,866	140,851
Total Freight	"	1,814,735	1,838,629

Date	Description	Debit	Credit	Balance
1880				
1881				
1882				
1883				
1884				
1885				
1886				
1887				
1888				
1889				
1890				
1891				
1892				
1893				
1894				
1895				
1896				
1897				
1898				
1899				
1900				

St. Lawrence Canals

September, 1949

September, 1948

Vessels	No.	1,166	1,165
Registered Tonnage	Tons	946,947	956,778
Passengers	No.	1,167	2,022
Barley	Tons	23,169	30,299
Corn	"	46,872	5,903
Oats	"	51,995	-
Rye	"	675	12,877
Wheat	"	373,362	86,071
Flour	"	910	-
Gasoline	"	111,354	89,890
Petroleum and other Oils	"	48,990	125,452
Sugar	"	4,513	3,683
Pulpwood	"	80,178	113,634
Autos and Parts	"	906	276
Paper	"	15,884	7,141
Wood Pulp	"	3,100	4,566
Hard Coal	"	5,378	7,260
Soft Coal	"	145,529	469,390
Sand	"	34,286	31,875
All other freight	"	195,347	149,682
Total Freight	"	1,142,448	1,137,990

		Ottawa River Canal		Rideau Canal		Richelieu River Canal	
		1949	1948	1949	1948	1949	1948
Vessels	No.	147	143	10	17	100	90
Registered Tonnage	Tons	40,686	37,986	492	680	15,852	14,455
Passengers	No.	-	-	(1) 11	41	-	-
Total Freight	Tons	35,385	32,453	245	312	13,179	11,984
Pleasure Craft		603	794	2,535	2,971	-	-

		Trent Canal		Murray Canal		St. Peter's Canal	
		1949	1948	1949	1948	1949	1948
Vessels	No.	2	98	3	8	98	137
Registered Tonnage	Tons	24	8,938	1,713	4,568	2,381	4,500
Passengers	No.	-	-	-	-	14	8
Total Freight	Tons	10	7,395	-	-	1,011	1,813
Pleasure Craft		-	2,220	462	129	4	-

		St. Andrew's Canal		All Canadian Canals	
		1949	1948	1949	1948
Vessels	No.	103	143	2,956	3,197
Registered Tonnage	Tons	10,797	15,464	3,062,602	3,243,318
Passengers	No.	442	479	7,017	14,238
Total Freight	Tons	1,569	3,566	3,226,935	3,220,411
Pleasure Craft		58	57	3,662	3,941

(1) Exclusive of 1,479 passengers at Ottawa.

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