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SUMMARY OF CANAL TRAFFIC

SEPTEMBER, 1948

Sault Ste. Marie Canals - Canadian and United States Locks:- Total freight traffic through the canals at 15,470,370 tons showed a slight increase over September 1947 total of 15,395,701 tons. Downbound iron ore shipments declined from 11,469,118 to 11,238,333 tons, but shipments of wheat increased from 655,382 to 765,124 tons, other grains from 213,568 to 201,986 tons, and upbound soft coal from 2,435,253 to 2,566,232 tons. Passenger traffic also increased from 10,996 to 17,497 passengers.

Welland Ship Canal:- Freight using the canal increased to 1,830,629 tons from 1,556,388 tons for September 1947. The large increases included soft coal 132,037 tons, iron ore 44,167 tons, wheat 37,417 tons, hard coal 17,338 tons, flaxseed 15,033 tons, sand, gravel and stone 14,654 tons, iron, pig and bloom, 11,406 tons, rye 11,217 tons and barley 9,096 tons. Petroleum and other oils showed a decrease of 19,917 tons and pulpwood was down by 3,506 tons.

St. Lawrence Canals:- Heavy shipments of grain, coal, gasoline and oils were the chief factors in increasing the total traffic using the canals to a total of 1,137,999 tons as against 930,902 tons for September last year. Soft coal increased from 390,096 to 469,390 tons, wheat from 46,106 to 86,071 tons, flaxseed from none last year to 17,495 tons, rye from 2,646 to 12,877 tons, barley from 7,705 to 30,299 tons, gasoline from 59,170 to 89,690 tons and petroleum and other oils from 108,828 to 125,452 tons.

4/11/48

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RESEARCH REPORT

NO. 1234

Abstract: This report describes the synthesis and properties of a new class of organic compounds. The synthesis involves the reaction of a substituted benzene ring with a carbonyl compound in the presence of a catalyst. The resulting product is a highly reactive intermediate that can be further modified. The physical and chemical properties of the product are discussed in detail, including its melting point, boiling point, and solubility. The report also includes a discussion of the mechanism of the reaction and the role of the catalyst. The results of the study are presented in the form of a series of tables and graphs, which show the effect of various reaction conditions on the yield and purity of the product. The study is concluded with a summary of the findings and a list of references.

Sault Ste. Marie Canals

1946

1947

EAST BOUND

		Canadian Lock	Canadian & U.S. Locks	Canadian Lock	Canadian & U.S. Locks
Lumber	Tons	-	-	-	-
Pulpwood	"	23,722	105,836	24,042	135,855
Flour	"	12,265	12,265	6,675	6,675
Wheat	"	17,315	765,124	47,129	655,362
Other Grains	"	62,374	281,986	45,766	213,568
Copper and Zinc	"	-	-	-	-
Iron Ore	"	-	11,236,833	-	11,469,118
Scrap Iron	"	-	11,779	-	5,605
Structural Steel	"	-	5,990	-	18,203
Stone	"	7,820	8,022	4,340	4,340
Other Freight	"	22,847	22,847	30,194	46,479
<b>Total</b>	"	<b>146,343</b>	<b>12,452,402</b>	<b>156,146</b>	<b>12,555,225</b>
Passengers	Number	8,235	9,139	4,494	5,762

WEST BOUND

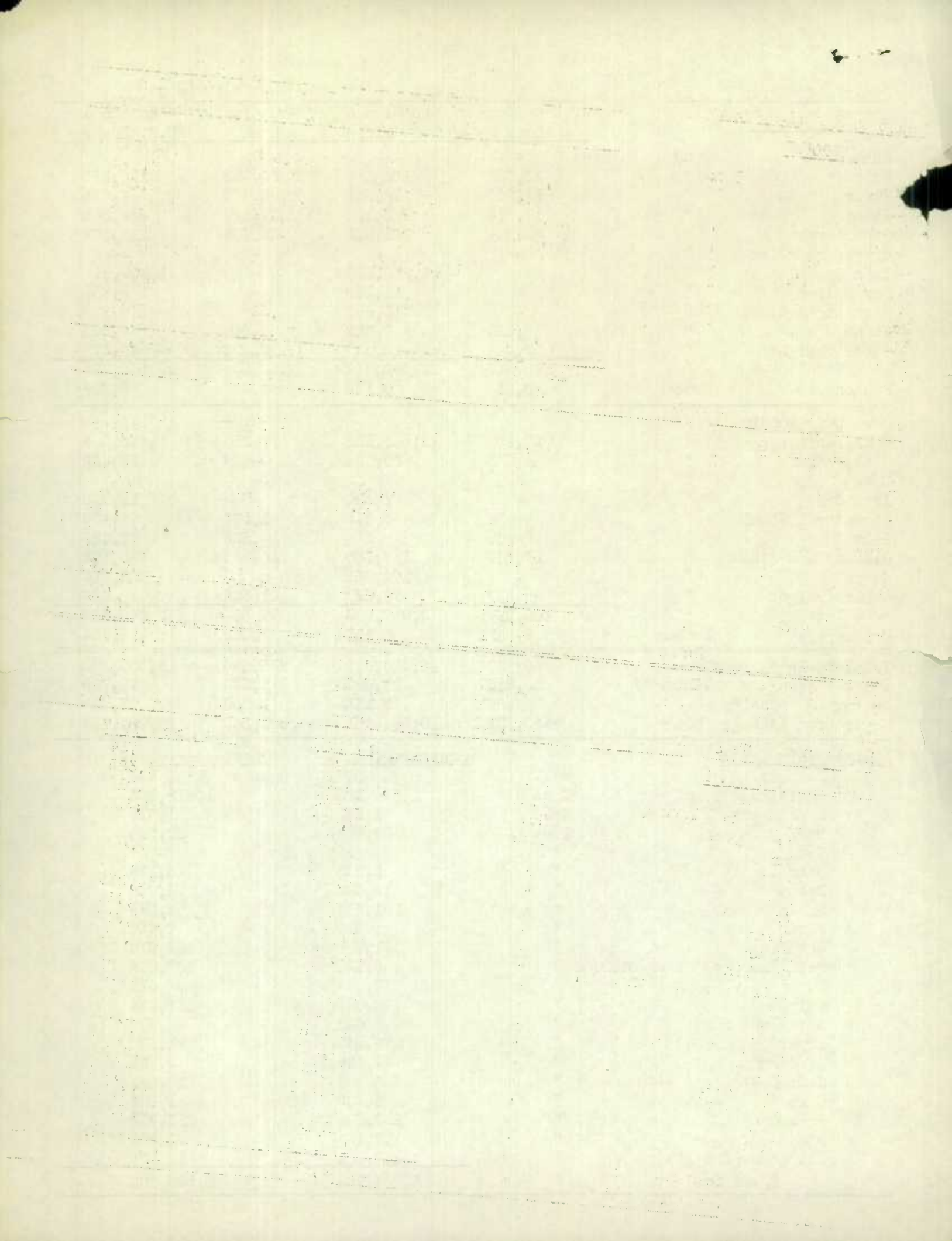
Coal, soft	Tons	27,650	2,566,232	17,210	2,435,253
Coal, hard	"	4,740	50,804	-	50,522
Coke	"	-	-	-	-
Iron Ore	"	-	8,400	-	12,768
Structural Steel	"	92	3,912	1,362	5,406
Salt	"	209	209	322	7,035
Oil and Gasoline	"	23,349	137,160	16,945	120,193
Stone	"	-	172,951	-	156,412
Other Freight	"	53,877	78,228	41,545	52,887
<b>Total</b>	"	<b>109,917</b>	<b>3,817,896</b>	<b>77,384</b>	<b>2,840,476</b>
Passengers	Number	2,021	8,308	1,062	5,234
<b>Total Freight</b>	<b>Tons</b>	<b>256,260</b>	<b>15,470,370</b>	<b>235,530</b>	<b>15,395,701</b>
<b>Total Passengers</b>	<b>Number</b>	<b>10,256</b>	<b>17,447</b>	<b>6,356</b>	<b>10,996</b>
Number of Vessels		526	3,133	350	2,727
Registered Tonnage	Net	555,791	10,994,061	558,240	10,929,154

Welland Ship Canal

September, 1946

September, 1947

Vessels	No.	370	754
Registered Tonnage	Tons	1,644,158	1,412,383
Passengers	No.	1,432	1,013
Barley	Tons	39,646	39,550
Corn	"	513	-
Oats	"	2,249	3,129
Rye	"	13,863	2,646
Wheat	"	191,672	154,255
Flour	"	610	2,450
Gasoline	"	111,576	106,813
Petroleum and other Oils	"	146,127	166,044
Sugar	"	3,894	918
Pulpwood	"	107,948	111,454
Autos and Parts	"	423	570
Paper	"	20,946	21,570
Wood Pulp	"	4,566	2,782
Soft Coal	"	744,498	612,461
Coke	"	9,298	1,402
Iron Ore	"	257,800	213,713
Sand	"	42,154	27,500
All other freight	"	140,851	98,126
<b>Total Freight</b>	"	<b>1,838,629</b>	<b>1,556,388</b>



St. Lawrence Canals:		September, 1948	September, 1947
Vessels	No.	1,165	1,006
Registered Tonnage	Tons	956,778	772,784
Passengers	No.	2,022	2,032
Barley	Tons	30,299	7,705
Corn	"	5,903	8,155
Oats	"	-	-
Rye	"	12,877	2,646
Wheat	"	86,071	46,106
Flour	"	-	2,950
Gasoline	"	89,890	59,170
Petroleum and other Oils	"	125,452	108,828
Sugar	"	3,683	4,833
Pulpwood	"	113,634	110,116
Autos and Parts	"	276	581
Paper	"	7,141	8,347
Wood Pulp	"	4,566	1,332
Hard Coal	"	7,260	4,708
Soft Coal	"	469,390	390,096
Sand	"	31,875	40,404
All other Freight	"	149,682	134,925
<b>Total Freight</b>	"	<b>1,137,999</b>	<b>930,902</b>

		Ottawa River Canal		Rideau Canal		Richelieu River Canal	
		1948	1947	1948	1947	1948	1947
Vessels	No.	143	191	17	9	90	111
Registered Tonnage	Tons	37,986	45,638	680	270	14,455	14,875
Passengers	No.	-	-	(1) 41	31	-	8
Total Freight	Tons	32,453	37,260	312	380	11,984	13,799
Pleasure Craft		794	647	2,959	2,296	-	24

		Trent Canal		Murray Canal		St. Peter's Canal	
Vessels	No.	98	98	8	15	137	175
Registered Tonnage	Tons	8,938	6,866	4,568	5,285	4,500	6,037
Passengers	No.	-	-	-	-	8	11
Total Freight	Tons	7,395	5,492	-	500	1,813	4,471
Pleasure Craft		2	5,891	129	68	-	-

		St. Andrew's Canal		All Canadian Canals	
		1948	1947	1948	1947
Vessels	No.	143	129	3,197	2,838
Registered Tonnage	Tons	15,464	13,527	3,243,518	2,839,905
Passengers	No.	479	577	14,238	10,028
Total Freight	Tons	3,566	2,032	3,290,411	2,810,418
Pleasure Craft		57	90	3,941	9,016

(1) Exclusive of 2,670 passengers at Ottawa.

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