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SUMMARY OF CANAL TRAFFIC

September, 1944

Sault Ste. Marie Canals - Canadian and United States Locks: Total traffic through the canals declined to 15,962,268 tons from 16,955,848 tons in September, 1943. Iron ore shipments, eastbound, declined from 12,997,158 to 11,703,924 tons and westbound bituminous coal declined from 2,524,241 to 2,084,218 tons. Wheat increased from 21,522,361 to 44,753,386 bushels and other grain from 11,145,872 to 14,772,064 bushels.

Welland Ship Canal: Total traffic using the canal increased to 1,504,563 tons from 1,325,792 tons in 1943. Wheat increased by 118,022 tons, oats by 19,987 tons, gasoline by 18,325 tons and iron ore by 66,544 tons. Anthracite coal increased by 22,477 tons but bituminous coal decreased by 61,619 tons.

St. Lawrence Canals: Traffic using the canals declined to 814,142 tons from 977,084 tons in 1943. The large decreases were bituminous coal 179,385 tons, petroleum and other oils 68,595 tons, other ores (bauxite) 33,791 tons and pulpwood 14,781 tons. Wheat increased by 65,432 tons, oats by 15,233 tons, gasoline by 23,717 tons and anthracite coal by 22,713 tons.

Sault Ste. Marie Canals

		1944		1943	
<u>EAST BOUND</u>		Canadian Lock	Canadian & U.S. Locks	Canadian Lock	Canadian & U.S. Locks
Lumber	M Ft. B.M.	...	...	...	...
Pulpwood	Cords	17,458	44,558	28,800	52,650
Flour	Barrels	103,450	103,450	100,450	100,450
Wheat	Bushels	2,860,567	44,753,386	4,412,853	21,522,361
Other Grains	"	1,492,853	14,772,064	3,029,464	11,145,872
Copper and Zinc	Short Tons	...	...	...	...
Iron Ore	" "	17,216	11,703,924	75,533	12,997,158
Scrap Iron	" "	...	...	...	17,842
Structural Steel	" "	103	22,139	239	15,107
Stone	" "	6,650	6,650	12,110	12,110
Other Freight	" "	40,242	66,655	28,049	28,049
Total	" "	226,026	13,528,547	382,510	14,071,826
Passengers	Number	2,364	2,364	3,156	3,136

WEST BOUND

Coal, soft	Short Tons	43,895	2,084,218	99,154	2,524,241
Coal, hard	" "	...	73,392	...	27,230
Coke	" "	...	...	...	...
Iron Ore	" "	...	...	...	32,424
Structural Steel	" "	1,715	6,024	292	5,844
Salt	" "	2,615	5,115	874	10,134
Oil and Gasoline	" "	31,203	101,852	44,978	89,585
Stone	" "	...	103,509	18	152,764
Other Freight	" "	41,430	59,811	34,195	42,000
Total	" "	120,658	2,433,921	179,511	2,864,022
Passengers	Number	2,180	2,180	2,288	2,288

Total Freight	Short Tons	346,684	15,962,268	562,021	16,935,848
Total Passengers	Number	4,544	4,544	5,424	5,424
Number of Vessels		455	3,065	635	3,532
Registered Tonnage Net		791,374	11,769,589	911,962	12,207,754

25/10/44

Price per year 50 cents.

RESEARCH REPORT ON THE EFFECTS OF THE 1964-65 WINTER
ON THE WINTERING OF CALVES IN THE NORTH
OF ENGLAND
BY
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The winter of 1964-65 was a particularly severe one for the wintering of calves in the north of England. The weather was generally cold and dry, with a high incidence of frost and snow. The ground was often hard and frozen, and the wind was often strong and cold. These conditions were particularly detrimental to the health of calves, and a high incidence of disease and mortality was observed. This report describes the results of a study carried out to determine the effects of these conditions on the wintering of calves. The study was carried out on a farm in the north of England, and involved the wintering of a group of calves under a range of different conditions. The results of the study are discussed in the following sections.

Item	1964-65		1963-64		Total
	Calves	Deaths	Calves	Deaths	
Calves wintered	100	100	100	100	200
Deaths	15	15	10	10	25
Survivors	85	85	90	90	175
Weight gain (lb)	1000	1000	1000	1000	2000
Cost of wintering (£)	100	100	100	100	200
Profit (£)	100	100	100	100	200
...
Total	100	100	100	100	200

Welland Ship Canal:		September, 1944	September, 1943
Vessels	No.	743	755
Registered Tonnage	Tons	1,357,040	1,249,535
Passengers	No.	790	282
Barley	Tons	10,369	7,874
Corn	"	...	...
Oats	"	21,222	1,235
Rye	"	...	...
Wheat	"	141,022	23,000
Flour	"	...	1,418
Gasoline	"	111,705	93,380
Petroleum & Other Oils	"	177,891	188,980
Sugar	"	1,708	571
Pulpwood	"	36,444	55,900
Autos and Parts	"	87	85
Paper	"	14,919	16,993
Wood Pulp	"	...	451
Soft Coal	"	576,468	638,087
Coke	"	23,080	6,156
Iron Ore	"	269,120	202,576
Sand	"	14,850	20,438
All other freight	"	105,678	68,648
Total Freight	"	1,504,563	1,325,792

St. Lawrence Canals:					
Vessels	No.	874		1,083	
Registered Tonnage	Tons	727,442		903,885	
Passengers	No.	696		2,001	
Barley	Tons	4,380		984	
Corn	"	...		...
Oats	"	15,363		130	
Rye	"	...		...
Wheat	"	39,449		24,017	
Flour	"	...		49	
Gasoline	"	51,918		28,201	
Petroleum & Other Oils	"	18,257		86,852	
Sugar	"	4,626		2,933	
Pulpwood	"	54,570		69,351	
Autos and Parts	"	126		55	
Paper	"	25,335		25,916	
Wood Pulp	"	520		1,695	
Hard Coal	"	25,721		3,008	
Soft Coal	"	394,705		574,090	
Sand	"	27,500		23,080	
All other freight	"	101,672		138,723	
Total Freight	"	814,142		977,084	

Ottawa River Canal		Rideau Canal		Richelieu River Canal	
1944	1943	1944	1943	1944	1943

Vessels	No.	211	170	76	4	41	52
Registered Tonnage	Tons	41,364	31,499	2,485	242	7,538	8,267
Passengers	No.	...	...	...	5	...	...
Total Freight	Tons	36,150	28,611	1,111	188	7,183	9,020
Pleasure Craft Lockages		291	248	1,593	1,268	11	15

Trent Canal		Murray Canal		St. Andrews Canal	
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Vessels	No.	494	493	3	14	136	125
Registered Tonnage	Tons	9,144	11,051	1,713	4,882	13,635	13,373
Passengers	No.	2,536	1,914	...	...	933	819
Total Freight	Tons	6,768	6,550	...	22	1,786	2,879
Pleasure Craft Lockages		953	770	49	52	21	20

St. Peter's Canal		All Canadian Canals	
1944	1943	1944	1943

Vessels	No.	173	86	3,206	3,417
Registered Tonnage	Tons	27,497	18,871	2,979,232	3,153,968
Passengers	No.	18	10	9,317	10,455
Total Freight	Tons	27,782	22,640	2,746,169	2,936,807



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