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DOMINION BUREAU OF STATISTICS
TRANSPORTATION AND PUBLIC UTILITIES BRANCH
OTTAWA

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SUMMARY OF CANAL STATISTICS

FOR

DECEMBER

AND

SEASON OF NAVIGATION

1941



Closing dates for traffic through the locks at Sault Ste. Marie were the same in 1940, viz: Canadian lock December 10 and the United States locks December 15. The Welland Ship Canal closed on December 15 and the St. Lawrence Canals on December 17. St. Peter's Canal was open at the end of the year and the other canals were closed in November.

Sault Ste. Marie Canals: Freight passing through both the Canadian and the United States locks during 1941 created a new high record for the canals at 111,121,718 tons. The previous record was 91,888,219 tons for 1916, and the 1940 tonnage was 89,857,672 tons. Downbound iron ore accounted for 83,059,401 tons or 75 p.c. of the total. This also was 25 p.c. above the record iron ore shipments made in 1940. Wheat increased from 224,216,668 bushels in 1940 to 296,882,587 bushels which was exceeded only in 1927 and 1928. Other grains decreased from 63,092,836 bushels in 1940 to 61,839,724 bushels and upbound bituminous coal increased from 10,142,127 tons to 12,050,792 tons. The number of passengers increased from 52,807 to 89,740 which was also a new high record for the canals. The previous record was 79,951 in 1911.

Welland Ship Canal: Traffic using the canal created a new high record of 13,232,263 tons as against 12,906,474 tons for 1940, the previous record. Flaxseed showed an increase over 1940 but all other grains showed decreases, wheat being lighter by 247,124 tons and corn by 263,690 tons, but flour increased by 88,936 tons. Iron, pig and bloom, iron and steel and coke showed substantial decreases but bituminous coal was heavier by 382,685 tons, iron ore by 473,841 tons, gasoline by 63,768 tons, petroleum and other oils by 297,249 tons and pulpwood by 66,076 tons.

St. Lawrence Canals: Due largely to light grain shipments total freight using the canals declined from 7,479,617 tons in 1940 to 6,929,569 tons. Although the number of vessels using the canals decreased from 8,793 to 8,636 the vessel registered net tonnage increased from 5,812,055 to 5,910,172 tons. The large decreases in freight were corn 380,889 tons, wheat 353,251 tons, iron and steel 129,938 tons and anthracite coal 145,230 tons. Flour increased from 94,937 to 169,782 tons, gasoline from 391,367 to 410,991 tons, petroleum and other oils from 613,273 to 741,845 tons, pulpwood from 546,529 to 615,010 tons and bituminous coal from 2,114,509 to 2,497,488 tons; over 90 p.c. of this coal was downbound.



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Sault Ste. Marie Canals

DECEMBER

		1941		1940	
		Canadian Lock	Canadian & U.S. Locks	Canadian Lock	Canadian & U.S. Locks
<u>EAST BOUND</u>					
Pulpwood	Cords	968	968	...	...
Lumber	M Ft. B.M.	...	1,143	...	...
Flour	Barrels	79,150	142,200	94,330	352,030
Wheat	Bushels	2,342,200	23,162,252	1,226,000	15,109,309
Other Grain	"	155,965	2,919,398	366,595	3,703,233
Copper and Zinc	Short Tons	...	200	...	2,612
Iron Ore	" "	...	1,243,253	...	41,708
Scrap Iron	" "	...	15,115	...	12,344
Structural Steel	" "	...	8,968	...	6,340
Stone	" "	1,240	1,240	...	...
Other Freight	" "	6,819	7,677	7,823	12,227
Total	" "	91,960	2,063,138	64,759	648,092
Passengers	Number	7	22	4	5

		1941		1940	
<u>WEST BOUND</u>					
Coal, soft	Short Tons	...	53,549	...	24,259
Coal, hard	" "	...	...	...	...
Coke	" "	...	...	...	...
Iron Ore	" "	...	...	...	...
Structural Steel	" "	2,832	2,879	2,499	2,727
Salt	" "	166	166	2,012	2,172
Oil and Gasoline	" "	678	697	321	652
Stone	" "	...	...	...	6,144
Other Freight	" "	10,423	15,783	9,717	19,321
Total	" "	14,099	73,464	14,649	55,572
Passengers	Number	5	5	...	...
Total Freight	Short Tons	106,059	2,153,402	79,403	703,664
Total Passengers	Number	12	27	4	5
Number of Vessels		100	532	56	237
Registered Tonnage	Net	126,696	1,593,436	75,785	497,503

Welland Ship Canal:

		December 1941	December 1940
Vessels	No.	188	133
Registered Tonnage	Tons	301,415	205,413
Passengers	No.	...	...
Barley	Tons	5,280	5,376
Corn	"	...	3,640
Oats	"	2,543	4,258
Rye	"	842	1,643
Wheat	"	107,184	54,841
Flour	"	8,901	8,190
Gasoline	"	36,923	18,400
Petroleum & Other Oils	"	77,881	31,479
Sugar	"	...	2,294
Pulpwood	"	...	...
Autos and Parts	"	...	10
Paper	"	1,285	7,000
Wood Pulp	"	...	...
Soft Coal	"	93,928	36,255
Coke	"	...	2,127
Iron Ore	"	...	...
Sand	"	15,485	13,785
All other freight	"	19,068	20,234
Total Freight	"	369,320	209,582

1925		1924		1923	
Year	Month	Year	Month	Year	Month
1925	Jan	1924	Jan	1923	Jan
1925	Feb	1924	Feb	1923	Feb
1925	Mar	1924	Mar	1923	Mar
1925	Apr	1924	Apr	1923	Apr
1925	May	1924	May	1923	May
1925	Jun	1924	Jun	1923	Jun
1925	Jul	1924	Jul	1923	Jul
1925	Aug	1924	Aug	1923	Aug
1925	Sep	1924	Sep	1923	Sep
1925	Oct	1924	Oct	1923	Oct
1925	Nov	1924	Nov	1923	Nov
1925	Dec	1924	Dec	1923	Dec

St. Lawrence Canals:

		December 1941	December 1940
Vessels	No.	86	45
Registered Tonnage	Tons	43,431	18,591
Passengers	No.	...	...
Barley	Tons	...	...
Corn	"	11,387	...
Oats	"	...	...
Rye	"	...	...
Wheat	"	...	...
Flour	"	...	...
Gasoline	"	960	...
Petroleum & Other Oils	"	950	1,720
Sugar	"	...	...
Pulpwood	"	...	...
Autos and Parts	"	...	56
Paper	"	...	1,850
Wood Pulp	"	...	...
Hard Coal	"	...	8,064
Soft Coal	"	19,426	...
Sand	"	...	...
All other Freight	"	3,715	1,259
Total Freight	"	36,438	12,949

		Ottawa River Canal		Rideau Canal	
		1941	: 1940	: 1941	: 1940

Vessels	No.	...	...	...	...
Registered Tonnage	Tons
Passengers	No.
Total Freight	Tons

		Richelieu River Canal		Trent Canal	
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Vessels	No.	7	...
Registered Tonnage	Tons	41	...
Passengers	No.	8	...
Total Freight	Tons	36	...

		Murray Canal		St. Peter's Canal	
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Vessels	No.	31	50
Registered Tonnage	Tons	5,387	4,603
Passengers	No.	1
Total Freight	Tons	3,810	3,245

		St. Andrew's Canal		All Canadian Canals	
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Vessels	No.	412	284
Registered Tonnage	Tons	476,970	304,392
Passengers	No.	20	5
Total Freight	Tons	...	...	515,663	305,184

Table 1. Summary of data

Year	Month	Day	Time	Location	Species	Count	Notes
1981	Jan	1	08:00	Point A	Species X	10	...
1981	Jan	2	09:00	Point B	Species Y	5	...
1981	Jan	3	10:00	Point C	Species Z	15	...
1981	Jan	4	11:00	Point D	Species X	8	...
1981	Jan	5	12:00	Point E	Species Y	12	...
1981	Jan	6	13:00	Point F	Species Z	7	...
1981	Jan	7	14:00	Point G	Species X	11	...
1981	Jan	8	15:00	Point H	Species Y	9	...
1981	Jan	9	16:00	Point I	Species Z	13	...
1981	Jan	10	17:00	Point J	Species X	6	...
1981	Jan	11	18:00	Point K	Species Y	14	...
1981	Jan	12	19:00	Point L	Species Z	10	...
1981	Jan	13	20:00	Point M	Species X	12	...
1981	Jan	14	21:00	Point N	Species Y	8	...
1981	Jan	15	22:00	Point O	Species Z	11	...
1981	Jan	16	23:00	Point P	Species X	9	...
1981	Jan	17	00:00	Point Q	Species Y	13	...
1981	Jan	18	01:00	Point R	Species Z	7	...
1981	Jan	19	02:00	Point S	Species X	10	...
1981	Jan	20	03:00	Point T	Species Y	11	...
1981	Jan	21	04:00	Point U	Species Z	8	...
1981	Jan	22	05:00	Point V	Species X	12	...
1981	Jan	23	06:00	Point W	Species Y	9	...
1981	Jan	24	07:00	Point X	Species Z	10	...
1981	Jan	25	08:00	Point Y	Species X	11	...
1981	Jan	26	09:00	Point Z	Species Y	12	...
1981	Jan	27	10:00	Point AA	Species Z	13	...
1981	Jan	28	11:00	Point AB	Species X	14	...
1981	Jan	29	12:00	Point AC	Species Y	15	...
1981	Jan	30	13:00	Point AD	Species Z	16	...
1981	Jan	31	14:00	Point AE	Species X	17	...
1981	Feb	1	15:00	Point AF	Species Y	18	...
1981	Feb	2	16:00	Point AG	Species Z	19	...
1981	Feb	3	17:00	Point AH	Species X	20	...
1981	Feb	4	18:00	Point AI	Species Y	21	...
1981	Feb	5	19:00	Point AJ	Species Z	22	...
1981	Feb	6	20:00	Point AK	Species X	23	...
1981	Feb	7	21:00	Point AL	Species Y	24	...
1981	Feb	8	22:00	Point AM	Species Z	25	...
1981	Feb	9	23:00	Point AN	Species X	26	...
1981	Feb	10	00:00	Point AO	Species Y	27	...
1981	Feb	11	01:00	Point AP	Species Z	28	...
1981	Feb	12	02:00	Point AQ	Species X	29	...
1981	Feb	13	03:00	Point AR	Species Y	30	...
1981	Feb	14	04:00	Point AS	Species Z	31	...
1981	Feb	15	05:00	Point AT	Species X	32	...
1981	Feb	16	06:00	Point AU	Species Y	33	...
1981	Feb	17	07:00	Point AV	Species Z	34	...
1981	Feb	18	08:00	Point AW	Species X	35	...
1981	Feb	19	09:00	Point AX	Species Y	36	...
1981	Feb	20	10:00	Point AY	Species Z	37	...
1981	Feb	21	11:00	Point AZ	Species X	38	...
1981	Feb	22	12:00	Point BA	Species Y	39	...
1981	Feb	23	13:00	Point BB	Species Z	40	...
1981	Feb	24	14:00	Point BC	Species X	41	...
1981	Feb	25	15:00	Point BD	Species Y	42	...
1981	Feb	26	16:00	Point BE	Species Z	43	...
1981	Feb	27	17:00	Point BF	Species X	44	...
1981	Feb	28	18:00	Point BG	Species Y	45	...
1981	Feb	29	19:00	Point BH	Species Z	46	...
1981	Feb	30	20:00	Point BI	Species X	47	...
1981	Mar	1	21:00	Point BJ	Species Y	48	...
1981	Mar	2	22:00	Point BK	Species Z	49	...
1981	Mar	3	23:00	Point BL	Species X	50	...
1981	Mar	4	00:00	Point BM	Species Y	51	...
1981	Mar	5	01:00	Point BN	Species Z	52	...
1981	Mar	6	02:00	Point BO	Species X	53	...
1981	Mar	7	03:00	Point BP	Species Y	54	...
1981	Mar	8	04:00	Point BQ	Species Z	55	...
1981	Mar	9	05:00	Point BR	Species X	56	...
1981	Mar	10	06:00	Point BS	Species Y	57	...
1981	Mar	11	07:00	Point BT	Species Z	58	...
1981	Mar	12	08:00	Point BU	Species X	59	...
1981	Mar	13	09:00	Point BV	Species Y	60	...
1981	Mar	14	10:00	Point BV	Species Z	61	...
1981	Mar	15	11:00	Point BV	Species X	62	...
1981	Mar	16	12:00	Point BV	Species Y	63	...
1981	Mar	17	13:00	Point BV	Species Z	64	...
1981	Mar	18	14:00	Point BV	Species X	65	...
1981	Mar	19	15:00	Point BV	Species Y	66	...
1981	Mar	20	16:00	Point BV	Species Z	67	...
1981	Mar	21	17:00	Point BV	Species X	68	...
1981	Mar	22	18:00	Point BV	Species Y	69	...
1981	Mar	23	19:00	Point BV	Species Z	70	...
1981	Mar	24	20:00	Point BV	Species X	71	...
1981	Mar	25	21:00	Point BV	Species Y	72	...
1981	Mar	26	22:00	Point BV	Species Z	73	...
1981	Mar	27	23:00	Point BV	Species X	74	...
1981	Mar	28	00:00	Point BV	Species Y	75	...
1981	Mar	29	01:00	Point BV	Species Z	76	...
1981	Mar	30	02:00	Point BV	Species X	77	...
1981	Mar	31	03:00	Point BV	Species Y	78	...
1981	Apr	1	04:00	Point BV	Species Z	79	...
1981	Apr	2	05:00	Point BV	Species X	80	...
1981	Apr	3	06:00	Point BV	Species Y	81	...
1981	Apr	4	07:00	Point BV	Species Z	82	...
1981	Apr	5	08:00	Point BV	Species X	83	...
1981	Apr	6	09:00	Point BV	Species Y	84	...
1981	Apr	7	10:00	Point BV	Species Z	85	...
1981	Apr	8	11:00	Point BV	Species X	86	...
1981	Apr	9	12:00	Point BV	Species Y	87	...
1981	Apr	10	13:00	Point BV	Species Z	88	...
1981	Apr	11	14:00	Point BV	Species X	89	...
1981	Apr	12	15:00	Point BV	Species Y	90	...
1981	Apr	13	16:00	Point BV	Species Z	91	...
1981	Apr	14	17:00	Point BV	Species X	92	...
1981	Apr	15	18:00	Point BV	Species Y	93	...
1981	Apr	16	19:00	Point BV	Species Z	94	...
1981	Apr	17	20:00	Point BV	Species X	95	...
1981	Apr	18	21:00	Point BV	Species Y	96	...
1981	Apr	19	22:00	Point BV	Species Z	97	...
1981	Apr	20	23:00	Point BV	Species X	98	...
1981	Apr	21	00:00	Point BV	Species Y	99	...
1981	Apr	22	01:00	Point BV	Species Z	100	...

SUMMARY OF CANAL TRAFFIC
FOR SEASON OF NAVIGATION, 1941

Sault Ste. Marie Canal

Season of Navigation

<u>EAST BOUND</u>		1941		1940	
		Canadian Lock	Canadian & U.S. Locks	Canadian Lock	Canadian & U.S. Locks
Pulpwood	Cords	61,737	352,019	53,778	342,252
Lumber	M Ft. B.M.	1,142	30,478	509	23,868
Flour	Barrels	3,491,070	6,308,820	3,579,440	6,611,090
Wheat	Bushels	23,179,200	296,882,587	13,442,800	224,216,668
Other Grain	"	8,371,276	61,839,724	8,072,469	63,092,836
Copper and Zinc	Short Tons	1,660	39,168	40	104,971
Iron Ore	" "	114,000	83,059,401	...	66,177,996
Scrap Iron	" "	20,447	280,286	51,162	422,086
Structural Steel	" "	3,143	144,755	1,847	146,091
Stone	" "	78,570	78,770	47,740	48,940
Other Freight	" "	341,701	547,932	277,305	538,027
Total	" "	1,919,804	96,013,768	1,428,618	77,062,196
Passengers	Number	41,073	45,321	21,326	26,595

<u>WEST BOUND</u>		1941		1940	
Coal, soft	Short Tons	265,879	12,050,792	38,493	10,142,127
Coal, hard	" "	...	255,149	950	119,299
Coke	" "	3,117	3,117	3,934	3,934
Iron Ore	" "	...	91,543	125	45,207
Structural Steel	" "	20,084	99,892	21,417	65,144
Salt	" "	15,029	51,258	19,314	48,805
Oil and Gasoline	" "	140,952	1,013,651	109,810	1,047,636
Stone	" "	16,567	791,079	3,936	645,635
Other Freight	" "	390,548	751,469	328,133	678,430
Total	" "	852,176	15,107,950	526,112	12,796,217
Passengers	Number	16,710	44,419	10,338	26,212

Total Freight	Short Tons	2,771,980	111,121,718	1,954,730	89,857,672
Total Passengers	Number	57,783	89,740	31,664	52,807
Number of Vessels		4,845	25,865	3,557	20,837
Registered Tonnage Net		7,069,269	89,047,038	4,367,144	72,654,820

Welland Ship Canal

Season of Navigation

		1941	1940
Vessels	No.	7,135	6,867
Registered Tonnage	Tons	11,956,673	11,670,622
Passengers	No.	1,588	2,214
Barley	Tons	115,381	167,648
Corn	"	259,559	523,249
Oats	"	24,449	52,404
Rye	"	28,959	30,038
Flaxseed	"	47,547	43,178
Wheat	"	1,576,877	1,824,001
Other Grains	"	2,824	8,197
Flour	"	215,801	126,865
Hay and Straw	"	...	...
Other Mill Products	"	2,975	13,253
Fruit and Vegetables	"	...	384
Potatoes	"	...	...
Fish	"	...	...
Dressed Meats	"	...	68
Other Packing-house Products	"	...	1,500
All other Animal Products	"	...	79
Gasoline	"	670,110	606,342
Petroleum and other Oils	"	1,881,225	1,583,976
Agricultural Implements	"	2,101	2,810
Cement, Bricks, Lime & Plaster	"	74,425	43,363
Iron, Pig and Bloom	"	117,682	216,662
Iron and Steel, other	"	151,159	335,412

Illand Ship Canal - Concluded

		Season of Navigation	
		1941	1940
Sugar	Tons	91,625	114,339
Salt	"	44,819	49,269
Beverages	"	8,253	7,879
Autos and Parts	"	17,851	39,624
Paper	"	223,907	221,916
Wood Pulp	"	19,433	18,350
Pulpwood	"	501,856	435,780
Logs, Posts, Poles, Piling	"	...	...
Firewood	"	...	...
Lumber Mill and Cooperage Stock	"	10,237	10,202
Other Forest Products	"	...	...
Hard Coal	"	57,779	22,204
Soft Coal	"	4,944,439	4,561,754
Coke	"	151,623	290,636
Copper Ore	"	...	9,184
Iron Ore	"	1,241,450	767,609
Other Ore	"	110,753	125,297
Sand, Gravel and Stone	"	233,417	220,434
All other Freight	"	423,767	432,568
Total	"	13,232,263	12,906,474

St. Lawrence Canals

Vessels	No.	8,636	8,793
Registered Tonnage	Tons	5,910,172	5,812,055
Passengers	No.	600	3,564
Barley	Tons	50,139	114,694
Corn	"	115,495	496,384
Oats	"	2,450	19,047
Eye	"	2,619	1,870
Flaxseed	"	31,465	28,447
Wheat	"	899,402	1,252,653
Other Grains	"	1,237	1,422
Flour	"	169,782	94,937
Hay and Straw	"	749	1,165
Other Mill Products	"	1,466	3,644
Fruit and Vegetables	"	...	1,003
Potatoes	"	...	...
Fish	"	176	301
Dressed Meats	"	...	253
Other Packing-house Products	"	50	...
All other Animal Products	"	5,579	636
Gasoline	"	410,991	391,367
Petroleum and other Oils	"	741,845	613,273
Agricultural Implements	"	3,917	4,469
Cement, Bricks, Lime and Plaster	"	15,589	495
Iron, Pig and Bloom	"	10,366	31,342
Iron and Steel, other	"	72,021	201,959
Sugar	"	76,637	100,106
Salt	"	40,066	48,870
Beverages	"	9,631	8,971
Autos and Parts	"	3,478	6,863
Paper	"	100,037	110,924
Wood Pulp	"	12,826	69,222
Pulpwood	"	615,010	546,529
Logs, Posts, Poles, Piling	"	1	12
Firewood	"	690	1,020
Lumber Mill and Cooperage Stock	"	54,903	58,612
Other Forest Products	"	970	...
Hard Coal	"	178,095	323,325
Soft Coal	"	2,497,488	2,114,509
Coke	"	40,541	92,015
Copper Ore	"	...	...
Iron Ore	"	8,426	31,571
Other Ore	"	98,027	56,654
Sand, Gravel and Stone	"	218,898	224,424
All other Freight	"	438,507	426,629
Total	"	6,929,569	7,479,617

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SEASON OF NAVIGATION, 1941.

		Ottawa River Canals		:	Rideau Canal		
		1941	:	1940	:	1941	1940
Vessels	No.	1,637		1,755		197	291
Registered Tonnage	Tons	347,807		370,765		3,818	4,815
Passengers	No.	...		2		10,450	8,359
Total Freight	Tons	309,509		317,412		1,398	1,310
		Richelieu River Canal		:	Trent Canal		
Vessels	No.	603		814		2,911	2,979
Registered Tonnage	Tons	96,296		134,923		61,893	63,691
Passengers	No.	131		134		25,288	22,722
Total Freight	Tons	84,236		114,821		25,432	23,824
		Murray Canal		:	St. Peter's Canal		
Vessels	No.	366		316		886	973
Registered Tonnage	Tons	28,602		24,029		90,277	66,648
Passengers	No.	879		15		221	236
Total Freight	Tons	3,614		935		75,678	54,651
		St. Andrew's Canal		:	All Canadian Canals		
Vessels	No.	659		495		27,875	26,840
Registered Tonnage	Tons	68,196		55,391		25,633,003	22,570,083
Passengers	No.	3,149		3,129		100,089	72,039
Total Freight	Tons	22,897		16,779		23,456,576	22,870,553

TRAFFIC ON CANADIAN CANALS

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Canal	Vessels Number	Registered Tonnage	Passengers Number	Tons	Freight Tonnage Compared with 1940	
					(Increase +)	(Decrease -)
Sault Ste. Marie	4,845	7,069,269	57,783	2,771,980	+	817,250
Welland Ship	7,135	11,956,673	1,588	13,232,263	+	325,789
St. Lawrence	8,636	5,910,172	600	6,929,569	-	550,048
Richelieu River	603	96,296	131	84,236	-	30,585
St. Peter's	886	90,277	221	75,678	+	21,027
Murray	366	28,602	879	3,614	+	2,679
Ottawa River	1,637	347,807	...	309,509	-	7,903
Rideau	197	3,818	10,450	1,398	+	88
Trent	2,911	61,893	25,288	25,432	+	1,608
St. Andrew's	659	68,196	3,149	22,897	+	6,118
TOTAL /	27,875	25,633,003	100,089	23,456,576	+	586,023

/ Includes duplications and is affected by the proportion of the total traffic at Sault Ste. Marie using the Canadian lock.



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Year	1980	1981	1982	1983	1984	1985
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TABLE 1

Year	1980	1981	1982	1983	1984	1985
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Source: Statistics Canada, ...