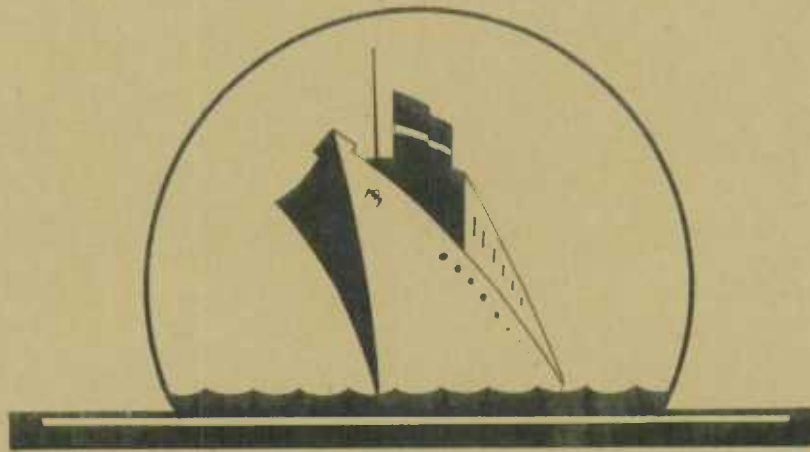


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GOVERNMENT OF CANADA



# WATER TRANSPORTATION 1951



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# WATER TRANSPORTATION 1951

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# WATER TRANSPORTATION

1951 MILLION DOLLARS	\$  FINANCIAL FACTS \$	1950 MILLION DOLLARS
128.0	Property Account (Net Value)	124.7
246.2	Operating Revenues	187.7
204.8	Operating Expenses	169.2
27.9	Fuel Consumed (Cost)	23.2
43.9	Employees (Total wages and salaries paid)	40.1
224.4	Vessels as at End of Season (Gross Value)	204.5
20.9	Net Profits	10.7

WATER TRANSPORTATION

1 9 5 1

Introduction

Until 1949, the field of water transportation statistics was confined to two publications. The annuals "Shipping Report" and "Canal Statistics", both of which have been issued regularly for many years and which were designed to cover shipping activities and water-borne commerce from the viewpoint of vessel arrivals and departures at Canadian ports, the use of facilities, and the details of cargoes carried. The Shipping report gives the registered net tonnage of vessels, the arrivals and departures in foreign and coasting service by ports, country of registry or flag of vessel, the origin and destination and tonnage of cargoes carried in foreign trade, etc. Commencing with 1952, coastwise cargoes will also be shown. Canal statistics records vessel passages on all Canadian canals during the year, the tonnage of commodities passing, the flag and type of vessel, grain rates, and so on. A less detailed canal report is issued monthly.

In order to round out this statistical field and to present a more complete picture of the magnitude of the Water Transportation Industry and its relative importance to the economy of the country, and thus to measure its contribution to the national income, it was essential to compile financial data from the companies and individuals engaged in "for hire" transportation by water. Those operating as part and parcel of an industrial corporation such as the vessels of pulp and paper companies were excluded as they are counted with the parent industry. In 1949, Water Transportation was released for the first time, covering the years 1946 to 1948 and has since been issued annually.

Review of 1951 Operations

As reported in the "Shipping Report" for 1951, Canadian vessels carried 33.1 million tons in foreign trade, or 50.5 per cent of the total of 65.5 million tons of foreign cargoes loaded and unloaded at Canadian ports during that year. Further, the "Canal Statistics" shows that of the total of 29.3 million tons of goods locked through all Canadian canals in 1951, Canadian vessels transported 25.6 million tons or 87.4 per cent. In addition, huge tonnages were moved "coastwise" by sea, lake and river which were not tabulated and were practically all carried in Canadian bottoms. This high volume of traffic was carried by a total of 1,968 Canadian vessels which were in operation during the 1951 season, 1,532 of which were owned and 436

were chartered by the reporting operators.

At the end of the year, there were 1,483 Canadian owned vessels and 204 chartered vessels in operation, and an additional 79 Canadian owned ships which did not operate at all during the year - a total of 1,766 which represented a gross investment of \$224.4 million before depreciation. The total investment in the industry amounted to \$252.4 million which, with the reduction of accrued depreciation of \$124.4 million, left a net worth of \$128 million, up slightly from the 1950 total of \$124.7 million. Incorporated companies held the bulk of the investment with net value of assets estimated at \$125.4 million at the end of 1951, while the individuals and partnerships equity was above \$2.5 millions.

Gross income of the industry for the year 1951 amounted to \$250,237,028, while total expenses were \$208,302,995, leaving a net income before income tax of \$41,934,033. The provision for income tax, \$21,012,336, when subtracted from this total resulted in an overall profit of \$20,921,697, almost double the profit of \$10,660,708 earned in 1950. The continuation of hostilities in Korea, the build-up for defence, the requirements for NATO commitments and sustained immigration, all added greatly to the activity of the Canadian industry, and particularly those engaged in deep-sea trade.

The total wage and salary bill of the industry was \$43,946,977 for 20,149 employees during the year to which was added \$5,565,915 as the value of meals supplied. Owner operators withdrew an additional \$180,567 for their services. The fuel bill amounted to \$27,917,338. During the year, 10 vessels valued at \$320,543 were lost, and 12 persons, 10 of which were crew members, were killed, and some 1,700 suffered injuries of various kind and severity.

Due mainly to higher domestic operating costs and sterling currency limitations, a considerable number of Canadian-owned ships were still operated under United Kingdom or foreign registry and were thus not manned by Canadian crews. This has tended to depreciate the true overall importance of the Canadian water transportation industry as only the credits for charter hire received by Canadian owners are given.

#### Source and Treatment of Data

For the purpose of this report, Canada has been divided geographically into three regions, the Atlantic Division including the Atlantic Provinces, the eastern seaboard and the

St. Lawrence River as far as Montreal; the Pacific Division embracing the western ocean ports; and, finally, the Inland Division including the Great Lakes, Hudson Bay, the Mackenzie River and all other inland lakes and waterways. The statistics are also presented by type of operator - i.e., incorporated companies, or individual owners and partnerships.

Since some railway companies operating inland or coastal marine service in conjunction with their rail lines include such service as part of their rail returns to the Bureau under "Water Line", that part of the industry has accordingly been excluded from the current summary. This includes such services as the ferries from the mainland to Vancouver Island, Prince Edward Island and Newfoundland.

All ocean-going vessels which are on the Canadian shipping registry are normally included in this report. The Canadian Pacific Steamship Company, however, operated several ocean-going craft in foreign service, but as they are on the British registry they are not included.

Operators engaged solely in the fishing or lumbering trades or those which make separate reports to the Bureau covering vessel operations as part of their particular industry are also excluded. Finally, vessels classed as private pleasure craft are excluded.

A total of 433 operators submitted reports for 1951 and these schedules were used to prepare the current report. It is estimated that this represents the bulk of the Water Transportation Industry in Canada. Operators from which returns were not forthcoming were usually small, i.e., individual owners with one or two vessels with restricted or seasonal operations. There were 261 incorporated companies, and 172 individual owners or partnerships. This compares with 451 operators in 1950, of which 267 were incorporated and 184 were individual owners or partnerships.

#### Property Account

The net value of assets of the Atlantic Division at the end of 1951, after deduction for accrued depreciation, declined to \$68,882,202 from the 1950 total of \$76,917,255. The value of the Pacific and Inland Divisions, however, showed a gain for 1951 from \$16,526,748 and \$31,251,467 to \$19,126,353 and \$39,972,416 respectively with the result that the total net value for Canada was increased to \$127,980,971 from \$124,695,470 in the preceding year, or by 2.6 per cent.



The Canadian increase was confined to the incorporated companies of the Pacific and Inland Divisions as the Individuals and Partnerships decreased to \$2,546,718 from \$2,822,859 and the incorporated companies of the Atlantic Division from \$75,039,443 to \$67,048,387. All items in the account, except land, which declined slightly, showed an improvement over the previous year.

#### Income Account

Tables 3, 4 and 5 presents an analysis of revenues and expenditures. Table 4 shows the financial operations by geographical divisions while table 5 gives a further breakdown by division and type of operator.

Widespread gains over 1950 were indicated in the revenue and expense accounts of the water transportation industry for 1951. All revenue accounts except other operating revenues posted sizeable increases. Total revenues or gross income amounted to \$250,237,028, an increase of \$59,464,444 or 31.2 per cent over the 1950 total of \$190,772,584. Revenue received for the transportation of freight rose from \$146,134,617 to \$193,640,875, a gain of 32.5 per cent which was divided between the Atlantic and Inland Division as the freight earnings of the Pacific Division declined to \$19,394,255 from \$21,573,957 one year earlier. Passenger revenue, which advanced in the Atlantic and Pacific Divisions only, reached a high of \$7,234,284, exceeding the 1950 total of \$5,688,896 by \$1,545,388 or 27.2 per cent. Towing charges provided \$16,398,371 as compared to \$11,329,987 and charter receipts rose to \$20,912,682 from \$16,639,404.

The expense accounts also reached considerably higher levels with increased activity. The cost of vessel operation which was up in all divisions, amounted to \$111,868,640, an increase of \$10,953,804 or 10.9 per cent over the \$100,914,836 recorded in 1950. Rentals advanced to \$31,773,928 from \$18,175,311 due to the fact that Saguenay Terminals Ltd. of the Atlantic Division doubled the number of chartered vessels in their bauxite fleet from 35 to 70. Maintenance declined slightly in the Inland Division but the rise in the Atlantic and Pacific Divisions brought the total to \$17,913,922 against \$14,684,328 in the preceeding year. Depreciation charges were up to \$22,656,815 from \$16,170,759.

Improved profits were reported in all three Divisions, particularly the Atlantic Division which achieved net earnings of \$16,011,400, more than double the \$6,910,721 earned in 1950.

### Employment and Earnings

During 1951, the wage and salary bill to the water transportation industry amounted to \$43,946,977 for the 20,149 employees. In 1950, 19,905 employees were paid \$40,103,062. Thus, the average wage rose from \$2,015 in 1950 to \$2,181 in the year under review. In addition, \$5,565,915 was reported as the value of meals supplied and individual proprietors withdrew \$180,567 as payment for their services. Lodging provided was not given a value but often represents a worthwhile increment to vessel crews.

The 15,162 crew members earned \$32,471,479 during 1951, an average of \$2,142 as compared to \$1,976 in 1950 and \$2,014 a year earlier. Dock and warehouse employees averaged \$1,996 against \$1,884 in 1950 and \$1,978 in 1949.

While annual average earnings in some cases may appear relatively low during a period of rising national wage rates and booming economic activity, it should be noted that considerable of the water transportation industry operates on a seasonal basis, particularly on inland waterways where the period of navigation is normally about eight months long and, consequently, average earnings are not representative of a full year's employment. When the value of meals, lodging and monthly wages are combined, Canadian crews are second only to the United States in average rate of recompense.

### Fuel Consumption and Cost

Table 7 presents expenditures on vessel fuels and the amounts consumed. Fuel oil and gasoline are reported in gallons while coal is reported in short tons. "Other fuel" includes wood, sawdust, etc., for which no standard measurement is available and the quantity column is, therefore, left blank.

The total cost of fuel in 1951 advanced to \$27,917,338 from \$23,200,455, an increase of \$4,716,883 or 20.3 per cent in which all types except "other" participated. Coal consumption increased slightly to 741,665 tons from 725,410 tons in 1950, while the cost rose to \$7,894,767 from \$7,536,705. The average cost per ton thus advanced from \$10.40 to \$10.64. Fuel oil used rose more rapidly from 199,990,607 gallons at a cost of \$12,870,890 to 226,108,469 gallons which cost \$16,517,513, an increase of 13.1 per cent in volume and 28.3 per cent in dollar value which resulted in raising the average cost per gallon from 6.4¢ to 7.3¢. The wide spread between the fuel oil costs per gallon purchased by incorporated companies and the individual owners (7.3¢ as

compared to 18.14) suggests that the large operators obtained fuel oil supplies in volume at ports of oil producing countries such as Mexico where dock head prices were much lower than in Canada, where transportation charges are included.

**Vessels in Operation**

A total of 1,968 vessels were in operation during the 1951 season, including 755 freighters, which accounted for 38.4 per cent of the total and 469 tow barges and scows representing 23.8 per cent. There were 851 vessels in operation in the Atlantic Division, 670 in the Pacific and 447 in Inland service. At the end of 1951, there were 1,687 vessels still in operation of which 1,483 were owned and 204 were chartered. An additional 79 owned vessels did not operate during the season under review. At the end of the previous year, 1,584 vessels, 1,438 of which were owned and 146 chartered, were in operation, and there were 91 inactive ships.

Accidents

Safety performance continued to improve during 1951 as only 12 deaths were reported during the year as compared with 28 in 1950, 137 in 1949, and 38 in 1948. The number of injuries reported also declined to an even 1,700 from 1,763 in the previous year, 1,995 in 1949 and 2,166 in 1948. As in all years, injuries occurred principally among vessel crews and other employees. During 1951, 1,270 sailors or 74.7 per cent of the total and 402 other employees, 23.6 per cent, required medical attention. A total of 10 vessels valued at \$320,543 were lost at sea, burnt or otherwise destroyed in 1951, 4 less than in the previous year, when 14 vessels valued at \$357,473, were written off.

STATEMENT OF PROPERTY ACCOUNT IN THE CANADIAN  
WATER TRANSPORTATION INDUSTRY  
1950 and 1951

TABLE 1

	A. Gross Addition during Year 1951	B. Total as at End of Year 1951	Total as at End of Year 1950
	\$	\$	\$
Land	24,579	3,617,867	3,619,637
Vessels	35,028,752	224,384,818	204,535,472
Docks, Wharves and Warehouses	528,873	8,429,037	7,755,943
Other Buildings	110,584	5,252,056	5,223,749
Supplies and Spare Equipment	303,839	2,012,005	1,610,515
Other	498,879	8,665,865	7,886,833
Total	36,495,506	252,361,648	230,632,149
Less Depreciation	-	124,380,677	105,936,679
Net Value	-	127,980,971	124,695,470

TABLE 2

## PROPERTY ACCOUNT IN THE CANADIAN

## WATER TRANSPORTATION INDUSTRY, BY TYPE OF OPERATOR, BY DIVISIONS

1951

	Land	Vessels	Docks Wharves Warehouses	Other Buildings	Supplies & Spare Equipment	Other	Total	Accrued Depreciation	Net Value
	\$	\$	\$	\$	\$	\$	\$	\$	\$
<u>INCORPORATED COMPANIES</u>									
Atlantic Division	134,772	133,304,625	654,698	115,832	922,221	3,587,388	138,719,536	71,671,149	67,048,387
Pacific Division	175,388	30,294,870	858,338	215,020	463,729	1,050,665	33,058,010	14,460,493	18,597,517
Inland (including the Great Lakes)	3,282,683	56,817,457	6,862,664	4,900,901	582,042	3,993,228	76,438,975	36,650,626	39,788,349
Total	3,592,843	220,416,952	8,375,700	5,231,753	1,967,992	8,631,281	248,216,521	122,782,268	125,434,253
<u>INDIVIDUAL OWNERSHIP &amp; PARTNERSHIP</u>									
Atlantic Division	13,545	2,889,406	32,217	16,799	14,316	7,711	2,973,994	1,140,179	1,833,815
Pacific Division	4,979	872,454	3,688	3,029	8,370	14,182	906,702	377,866	528,836
Inland (including the Great Lakes)	6,500	206,006	17,432	475	21,327	12,691	264,431	80,364	184,067
Total	25,024	3,967,866	53,337	20,303	44,013	34,584	4,145,127	1,598,409	2,546,718
<u>ALL OPERATORS</u>									
Total Atlantic Division	148,317	136,194,031	686,915	132,631	936,537	3,595,099	141,693,530	72,811,328	68,882,202
Total Pacific Division	180,367	31,167,324	862,026	218,049	472,099	1,064,847	33,964,712	14,838,359	19,126,353
Total Inland (including the Great Lakes)	3,289,183	57,023,463	6,880,096	4,901,376	603,369	4,005,919	76,703,406	36,730,990	39,972,416
Total	3,617,867	224,384,818	8,429,037	5,252,056	2,012,005	8,665,865	252,361,648	124,380,677	127,980,971

TABLE 3

THE CANADIAN WATER TRANSPORTATION INDUSTRY

1951

SUMMARY INCOME ACCOUNT

Operating Revenues		Operating Expenses	
	\$		\$
Passenger	7,234,284	Maintenance	17,913,922
Freight	193,640,875	Operation	111,868,640
Towing	16,398,371	Advertising	736,261
Salvage	272,227	Insurance	7,784,768
Storage	145,545	Administration and General	11,802,514
Charter	20,912,682	Depreciation	22,656,815
Other	7,614,026	Taxes (excluding Income Tax)	237,194
		Rentals for Vessels, Buildings, etc.	31,773,928
Total Operating Revenues	246,218,010	Total Operating Expenses	204,774,042
Other Income	4,019,018	Other Expenses	3,528,953
Gross Income	250,237,028	Total Expenses	208,302,995

Gross Income	250,237,028
Total Expenses	<u>208,302,995</u>
Net Income before Income Tax	41,934,033
Provision for Income Tax	<u>21,012,336</u>
Profit for Year	<u><u>20,921,697</u></u>

TABLE 4

INCOME ACCOUNT IN THE CANADIAN  
WATER TRANSPORTATION INDUSTRY, BY DIVISIONS

1 9 5 1

	Incorporated & Individual Ownership & Partnership			
	Atlantic Division	Pacific Division	Inland Division (including Great Lakes)	Total
	\$	\$	\$	\$
<b><u>OPERATING REVENUE</u></b>				
Passenger	2,081,453	2,315,773	2,837,058	7,234,284
Freight	137,910,214	19,394,255	36,336,406	193,640,875
Towing	933,697	13,862,730	1,601,944	16,398,371
Salvage	180,484	91,743	-	272,227
Storage	142,740	429	2,376	145,545
Charter	17,242,692	2,736,153	933,837	20,912,682
Other	4,085,043	1,714,075	1,814,908	7,614,026
Total Operating Revenue	162,576,323	40,115,158	43,526,529	246,218,010
Other Income	1,393,354	488,661	2,137,003	4,019,018
Gross Income	163,969,677	40,603,819	45,663,532	250,237,028
<b><u>OPERATING EXPENSES</u></b>				
Maintenance	11,105,598	3,311,543	3,496,781	17,913,922
Operation	65,525,309	21,790,782	24,552,549	111,868,640
Advertising	482,398	84,444	169,419	736,261
Insurance	5,630,719	1,400,139	753,910	7,784,768
Administration	6,981,606	1,934,584	2,886,324	11,802,514
Depreciation	13,753,426	3,117,267	5,786,122	22,656,815
Taxes	151,998	40,994	44,202	237,194
Rentals	26,375,596	5,251,079	147,253	31,773,928
Total Operating Expenses	130,006,650	36,930,832	37,836,560	204,774,042
Other Expenses (excluding Income Tax)	2,595,627	234,659	698,667	3,528,953
Total Expenses	132,602,277	37,165,491	38,535,227	208,302,995
Net Income before Income Tax	31,367,400	3,438,328	7,128,305	41,934,033
Less Provision for Income Tax	15,356,000	1,742,395	3,913,941	21,012,336
Profit for Year	16,011,400	1,695,933	3,214,364	20,921,697

TABLE 5

INCOME ACCOUNT IN THE CANADIAN  
WATER TRANSPORTATION INDUSTRY BY TYPE OF OPERATOR, BY DIVISION

1951

	Incorporated			Individual Ownership & Partnership			Grand Total
	Atlantic Division	Pacific Division	Inland Division (including Great Lakes)	Atlantic Division	Pacific Division	Inland Division (including Great Lakes)	
	\$	\$	\$	\$	\$	\$	\$
<b>OPERATING REVENUE</b>							
Passenger	1,945,423	2,284,859	2,780,412	136,030	30,914	56,646	7,234,284
Freight	135,921,197	19,369,365	36,298,826	1,989,017	24,890	37,580	193,640,875
Towing	919,343	13,169,487	1,597,075	14,354	693,243	4,869	16,398,371
Salvage	180,484	91,231	-	-	512	-	272,227
Storage	142,740	429	1,851	-	-	525	145,545
Charter	17,038,684	2,645,572	929,703	204,008	90,581	4,134	20,912,682
Other	3,920,269	1,676,696	1,754,565	164,774	37,379	60,343	7,614,026
Total Operating Revenue	160,068,140	39,237,639	43,362,432	2,508,183	877,519	164,097	246,218,010
Other Income	1,372,014	488,571	2,136,997	21,340	90	6	4,019,018
Gross Income	161,440,154	39,726,210	45,499,429	2,529,523	877,609	164,103	250,237,028
<b>Operating Expenses</b>							
Maintenance	10,800,010	3,203,057	3,483,411	305,588	108,486	13,370	17,913,922
Operation	64,200,499	21,477,250	24,492,066	1,324,810	313,532	60,483	111,868,640
Advertising	478,485	81,442	165,099	3,913	3,002	4,320	736,261
Insurance	5,497,388	1,366,658	744,143	133,331	33,481	9,767	7,784,768
Administration	6,904,816	1,900,253	2,880,666	76,790	34,331	5,658	11,802,514
Depreciation	13,569,424	3,011,743	5,764,169	184,002	105,524	21,953	22,656,815
Taxes	150,580	40,925	43,503	1,418	69	699	237,194
Rentals	26,373,111	5,228,518	143,186	2,485	22,561	4,067	31,773,928
Total Operating Expenses	127,974,313	36,309,846	37,716,243	2,032,337	620,986	120,317	204,774,042
Other Expenses (excluding Income Tax)	2,575,953	228,428	692,947	19,674	6,231	5,720	3,528,953
Total Expenses	130,550,266	36,538,274	38,409,190	2,052,011	627,217	126,037	208,302,995
Net Income before Income Tax	30,889,888	3,187,936	7,090,239	477,512	250,392	38,066	41,934,033
Less Provision for Income Tax	15,242,907	1,727,311	3,913,361	113,093	15,084	580	21,012,336
Profit for Year	15,646,981	1,460,625	3,176,878	364,419	235,308	37,486	20,921,697

TABLE 6

NUMBER OF EMPLOYEES AND EARNINGS IN THE CANADIAN  
WATER TRANSPORTATION INDUSTRY BY TYPE OF OPERATOR, BY DIVISIONS

1951

	Vessel Crews		Dock and Warehouse Employees		Office Administration Employees		Other Employees		Total		Entrepreneurial Withdrawals not included in total	Value of Meals Supplied	Amount of Salaries Paid to Employees with Home Address in Canada
	No.	Salaries and Wages	No.	Salaries and Wages	No.	Salaries and Wages	No.	Salaries and Wages	No.	Salaries and Wages			
		\$		\$		\$		\$		\$	\$	\$	\$
<b>INCORPORATED COMPANIES</b>													
Atlantic Division	8,474	19,082,941	903	843,835	760	2,671,175	38	62,456	10,175	22,660,407	-	2,997,019	21,595,805
Pacific Division	2,249	6,283,329	325	811,401	348	1,245,692	60	122,850	2,982	8,463,272	-	805,081	8,434,827
Inland (Including the Great Lakes)	3,748	6,320,966	1,468	3,728,158	824	1,630,306	220	314,440	6,260	11,993,870	-	1,651,026	11,067,695
<b>Total</b>	<b>14,471</b>	<b>31,687,236</b>	<b>2,696</b>	<b>5,383,394</b>	<b>1,932</b>	<b>5,547,173</b>	<b>318</b>	<b>499,746</b>	<b>19,417</b>	<b>43,117,549</b>	<b>-</b>	<b>5,453,126</b>	<b>41,098,327</b>
<b>INDIVIDUAL OWNERSHIP &amp; PARTNERSHIP</b>													
Atlantic Division	603	589,210	5	3,931	9	11,063	9	4,075	626	608,279	50,810	98,801	603,283
Pacific Division	64	170,665	2	7,426	6	10,335	2	1,493	74	189,919	117,004	13,128	189,919
Inland (Including the Great Lakes)	24	24,368	2	3,247	4	2,800	2	815	32	31,230	12,753	860	31,230
<b>Total</b>	<b>691</b>	<b>784,243</b>	<b>9</b>	<b>14,604</b>	<b>19</b>	<b>24,198</b>	<b>13</b>	<b>6,383</b>	<b>732</b>	<b>829,428</b>	<b>180,567</b>	<b>112,789</b>	<b>824,432</b>
<b>ALL OPERATORS</b>													
Total Atlantic Division	9,077	19,672,151	908	847,766	769	2,682,238	47	66,531	10,801	23,268,686	50,810	3,095,820	22,199,088
Total Pacific Division	2,313	6,453,994	327	818,827	354	1,256,027	62	124,343	3,056	8,653,191	117,004	818,209	8,624,746
Total Inland (Including the Great Lakes)	3,772	6,345,334	1,470	3,731,405	888	1,633,106	222	315,255	6,292	12,025,100	12,753	1,651,886	11,098,925
<b>Total</b>	<b>15,162</b>	<b>32,471,479</b>	<b>2,705</b>	<b>5,397,998</b>	<b>1,951</b>	<b>5,571,371</b>	<b>331</b>	<b>506,129</b>	<b>20,149</b>	<b>43,946,977</b>	<b>180,567</b>	<b>5,565,915</b>	<b>41,922,759</b>



TABLE 7

## EXPENDITURES ON FUEL AND AMOUNT CONSUMED

BY CANADIAN MARINE OPERATORS, BY TYPE OF OPERATOR, BY DIVISIONS

1951

	Coal (Tons)		Fuel Oil (Gallons)		Diesel Oil (Gallons)		Gasoline (Gallons)		Other Fuel	Total Cost
	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Cost	
		\$		\$		\$		\$	\$	\$
<u>INCORPORATED COMPANIES</u>										
Atlantic Division	393,030	4,115,550	179,454,902	13,062,436	11,316,331	1,521,091	8,845	2,691	69	18,701,837
Pacific Division	3,087	39,587	40,276,734	2,714,401	7,540,670	1,300,568	103,432	26,838	61,794	4,143,188
Inland (Including the Great Lakes)	339,685	3,675,830	5,894,350	653,362	1,708,616	293,945	164,931	54,161	12,226	4,689,524
Total	735,802	7,830,967	225,625,986	16,430,199	20,565,617	3,115,604	277,208	83,690	74,089	27,534,549
<u>INDIVIDUAL OWNERSHIP &amp; PARTNERSHIP</u>										
Atlantic Division	5,860	63,725	418,210	77,633	642,460	117,561	106,139	30,788	72	289,779
Pacific Division	3	75	64,273	9,681	373,917	55,547	22,259	5,773	-	71,076
Inland (Including the Great Lakes)	-	-	-	-	21,200	4,810	51,327	16,974	150	21,934
Total	5,863	63,800	482,483	87,314	1,037,577	177,918	179,725	53,535	222	382,789
<u>ALL OPERATORS</u>										
Total Atlantic Division	398,890	4,179,275	179,873,112	13,140,069	11,958,791	1,638,652	114,984	33,479	141	18,991,616
Total Pacific Division	3,090	39,662	40,341,007	2,724,082	7,914,587	1,356,115	125,691	32,611	61,794	4,214,264
Total Inland (Including the Great Lakes)	339,685	3,675,830	5,894,350	653,362	1,729,816	298,755	216,258	71,135	12,376	4,711,458
Total	741,665	7,894,767	226,108,469	16,517,513	21,603,194	3,293,522	456,933	137,225	74,311	27,917,338

SUMMARY OF EXPENDITURES ON FUEL

Kind of Fuel	Cost \$
Coal	7,894,767
Fuel Oil	16,517,513
Diesel Oil	3,293,522
Gasoline	137,225
Other	74,311
Total	27,917,338

TABLE 6

VESSELS OWNED OR CHARTERED

IN OPERATION DURING AND AT END OF SEASON, BY CANADIAN MARINE OPERATORS

BY TYPE OF OPERATOR, BY DIVISIONS

1951

	Passenger					Passenger and Freight					Freight				
	Total in Operation				Owned Vessels not Operated during Season	Total in Operation				Owned Vessels not Operated during Season	Total in Operation				Owned Vessels not Operated during Season
	during Season		at end of Season			during Season		at end of Season			during Season		at end of Season		
	O	C	O	C		O	C	O	C		O	C	O	C	
<u>INCORPORATED COMPANIES</u>															
Atlantic Division	6	-	6	-	1	29	4	29	4	2	231	268	221	89	5
Pacific Division	12	-	11	-	1	25	2	22	1	5	14	58	13	20	-
Inland (including the Great Lakes)	24	-	25	-	-	11	-	11	-	-	91	1	87	1	1
Total	42	-	42	-	2	65	6	62	5	7	336	327	321	110	6
<u>INDIVIDUAL OWNERSHIP &amp; PARTNERSHIP</u>															
Atlantic Division	31	-	31	-	2	20	-	20	-	-	92	-	86	-	2
Pacific Division	1	-	1	-	-	5	-	5	-	-	4	-	4	-	-
Inland (including the Great Lakes)	11	-	11	-	1	8	-	8	-	3	1	-	1	-	-
Total	43	-	43	-	3	33	-	33	-	3	97	-	91	-	2
<u>TOTAL VESSELS</u>															
Atlantic Division	37	-	37	-	3	49	4	49	4	2	323	268	307	89	7
Pacific Division	13	-	12	-	1	30	2	27	1	5	18	58	17	20	-
Inland (including the Great Lakes)	35	-	36	-	1	19	-	19	-	3	92	1	88	1	1
Total	85	-	85	-	5	98	6	95	5	10	433	327	412	110	8

\* - "O" - Operated; "C" - Chartered.

VESSELS OWNED OR CHARTERED

IN OPERATION DURING AND AT END OF SEASON, BY CANADIAN MARINE OPERATORS

BY TYPE OF OPERATOR, BY DIVISIONS

1951

Tankers					Tugs					Tow Barges & Scoops					Miscellaneous Vessels					Total All Vessels				
Total in Operation				Owned Vessels not Operated during Season	Total in Operation				Owned Vessels not Operated during Season	Total in Operation				Owned Vessels not Operated during Season	Total in Operation				Owned Vessels not Operated during Season	Total in Operation				Owned Vessels not Operated during Season
during Season		at end of Season			during Season		at end of Season			during Season		at end of Season			during Season		at end of Season			during Season		at end of Season		
O	C	O	C		O	C	O	C		O	C	O	C		O	C	O	C		O	C	O	C	
52	8	51	8	1	31	5	30	3	10	23	5	22	1	2	22	4	22	4	-	394	294	381	109	21
3	-	2	-	-	202	26	201	19	6	217	48	211	49	14	17	2	16	2	9	489	136	476	90	35
5	-	5	-	-	54	2	51	1	5	154	-	154	-	6	58	-	58	-	-	407	3	391	2	12
59	8	58	8	1	297	33	282	23	21	394	53	387	49	22	97	6	96	6	9	1,290	433	1,248	201	68
-	-	-	-	-	4	-	4	-	-	8	-	8	-	-	8	-	8	-	3	163	-	157	-	7
-	-	-	-	-	29	2	28	2	-	2	1	2	1	-	1	-	1	-	-	42	3	41	3	-
-	-	-	-	-	7	-	7	-	-	10	-	10	-	-	-	-	-	-	-	37	-	37	-	4
-	-	-	-	-	40	2	39	2	-	20	1	20	1	-	9	-	9	-	3	242	3	235	3	11
52	8	51	8	1	35	5	34	3	10	31	5	30	1	2	30	4	30	4	3	557	294	538	109	28
2	-	2	-	-	231	28	229	21	6	219	49	213	49	14	18	2	17	2	9	531	139	517	93	35
5	-	5	-	-	71	2	58	1	5	164	-	164	-	6	58	-	58	-	-	444	3	428	2	16
59	8	58	8	1	337	35	321	25	21	414	54	407	50	22	106	6	105	6	12	1,532	436	1,483	204	79

TABLE 9

## VESSELS OPERATED BY CANADIAN MARINE OPERATORS

BY TYPE OF OPERATOR, BY DIVISIONS

1951

	Class of Vessel						Miscellaneous Vessels	Total Operated
	Passenger	Passenger and Freight	Freight	Tanker	Tugs	Tow Barges and Scows		
<u>INCORPORATED COMPANIES</u>								
Atlantic Division	6	33	499	60	36	28	26	688
Pacific Division	12	27	72	2	228	265	19	625
Inland (including the Great Lakes)	24	11	87	10	65	155	58	410
<b>Total</b>	<b>42</b>	<b>71</b>	<b>658</b>	<b>72</b>	<b>329</b>	<b>448</b>	<b>103</b>	<b>1,723</b>
<u>INDIVIDUAL OWNERSHIP AND PARTNERSHIP</u>								
Atlantic Division	31	20	92	-	4	8	8	163
Pacific Division	1	5	4	-	31	3	1	45
Inland (including the Great Lakes)	11	8	1	-	7	10	-	37
<b>Total</b>	<b>43</b>	<b>33</b>	<b>97</b>	<b>-</b>	<b>42</b>	<b>21</b>	<b>9</b>	<b>245</b>
<u>ALL OPERATORS</u>								
Total Atlantic Division	37	53	591	60	40	36	34	851
Total Pacific Division	13	32	76	2	269	268	20	670
Total Inland (including the Great Lakes)	35	19	88	10	72	165	58	447
<b>Total</b>	<b>85</b>	<b>104</b>	<b>755</b>	<b>72</b>	<b>371</b>	<b>469</b>	<b>112</b>	<b>1,968</b>

TABLE 10

NUMBER OF PERSONS KILLED OR INJURED IN THE CANADIAN  
WATER TRANSPORTATION INDUSTRY, BY TYPE OF OPERATOR, BY DIVISION (1)

1 9 5 1

	Members of Crew		Other Employees		Passengers		Other Persons		Total		Vessels Lost	
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	No.	Value \$
<u>INCORPORATED COMPANIES</u>												
Atlantic Division	3	663	-	9	-	15	1	-	4	687	3	237,736
Pacific Division	4	314	-	24	-	-	-	-	4	338	4	42,807
Inland (including the Great Lakes)	3	289	1	369	-	13	-	-	4	671	1	10,000
<b>Total</b>	<b>10</b>	<b>1,266</b>	<b>1</b>	<b>402</b>	<b>-</b>	<b>28</b>	<b>1</b>	<b>-</b>	<b>12</b>	<b>1,696</b>	<b>8</b>	<b>290,543</b>
<u>INDIVIDUAL OWNERSHIP &amp; PARTNERSHIP</u>												
Atlantic Division	-	2	-	-	-	-	-	-	-	2	2	30,000
Pacific Division	-	2	-	-	-	-	-	-	-	2	-	-
Inland (including the Great Lakes)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>-</b>	<b>4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4</b>	<b>2</b>	<b>30,000</b>
<u>ALL OPERATORS</u>												
Total Atlantic Division	3	665	-	9	-	15	1	-	4	689	5	267,736
Total Pacific Division	4	316	-	24	-	-	-	-	4	340	4	42,807
Total Inland (including the Great Lakes)	3	289	1	369	-	13	-	-	4	671	1	10,000
<b>Total</b>	<b>10</b>	<b>1,270</b>	<b>1</b>	<b>402</b>	<b>-</b>	<b>28</b>	<b>1</b>	<b>-</b>	<b>12</b>	<b>1,700</b>	<b>10</b>	<b>320,543</b>

(1) Includes those lost at sea and presumed dead.





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