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GOVERNMENT OF CANADA



# WATER TRANSPORTATION 1950



**DOMINION BUREAU OF STATISTICS**

**Department of Trade and Commerce**

**WATER TRANSPORTATION  
1950**

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## WATER TRANSPORTATION

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### Introduction

The current summary of statistics for the calendar year is the third of a series embracing the years 1946 to 1950 designed to present a fairly comprehensive survey of the financial data for the Water Transportation Industry in Canada and thus to measure its contribution to the national income. The coverage includes only those Canadian companies and individuals engaged in "for hire" transportation by water and excludes those operating as part of an industrial corporation such as the vessels of pulp and paper companies.

Companion publications in this series on Water Transportation are the annual "Shipping Report" and "Canal Statistics" which have been issued regularly for many years. These cover shipping activities and water-borne commerce from the viewpoint of the vessels arriving or departing or using facilities and the cargoes carried. The Shipping Report gives registered net tonnage of vessels, arrivals and departures in foreign and coasting trade by ports, country of registry or flag of vessel, origin or destination and tonnage of cargoes in foreign trade, etc. Canal Statistics records vessel passages on all Canadian canals during the year, tonnage of commodities passing, flag of vessel and type, and so on. A less detailed canal report is issued monthly.

During the calendar year 1950, the total tonnage checked through Canadian customs ports of all cargo loaded and unloaded in trade with other countries amounted to 58.2 million tons. Of this combined aggregate over 26.8 million tons or 46.1 per cent was carried in Canadian vessels. This compares with 42 per cent one year earlier. Further, the Canal Statistics report for 1950 shows that our vessels moved 37.4 million tons of freight (including duplications) through all inland canal systems. In addition, huge tonnages were moved "coastwise" by sea, lake and river, which were not tabulated and practically all transported in Canadian bottoms.

These facts serve to emphasize the great importance that the Water Transportation Industry occupies in the Canadian economy - an industry that is sensitive to world conditions, domestic and foreign demand for commodities as well as the western harvests. Current ship building plans and activity, though bolstered by naval requirements, reaffirm an optimistic outlook. At the end of 1950 total investment of the industry before depreciation was placed at \$230.6 million with the value of its 1,906 operated and 91 inactive vessels owned or chartered at \$204.5 million. Total depreciation accrued on all property was \$105.9 million leaving a net worth of \$124.7; sales abroad and transfers plus the year's depreciation caused a reduction from the previous year end figure of \$158.3 million. Incorporated companies held the bulk of the investment with net value of assets estimated at \$121.9 million at the end of 1950 while the individuals and partnerships equity was above \$2.8 millions.

During 1950 gross income was \$190,772,584. Total expenses were \$172,888,641, leaving a net of \$17,883,943. From this total, provision for income tax of \$7,223,235 produced an



overall profit of \$10,660,708 compared with \$10,793,767 for 1949 when taxes were somewhat lighter. In the latter part of the year under review, increased international tension, heavy requirements for the Korean adventure, acceleration of defense stock piling and European deficiencies in coal and foodstuffs greatly benefitted the operating conditions of the Canadian industry, particularly those in deep-sea shipping. Sustained immigration helped passenger business considerably.

The industry employed 19,905 Canadians and distributed \$40,103,062 in salaries and wages during 1950. In addition, meals to an estimated value of \$5,746,000 were supplied. Owner operators withdrew an additional \$165,715 for their services. The total cost of fuel consumed amounted to \$23.2 million. During the year 14 vessels were lost with a value of \$357,473 and although no major marine disaster occurred as in 1949, there were 28 deaths and 1,763 injured reported compared with 137 and 1,995 respectively in the previous year.

Due to higher domestic operating costs, etc., 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 water transportation industry as only the credits for charter hire received by Canadian owners are given. A subsidy plan calling for the operation of 37 Canadian registered vessels with Canadian crews was in force during the year under which a subsidy of \$75,000 each was granted by the Government. Ten ships totalling 31,509 gross tons and having a value of \$9,693,614 were built in Canadian shipyards for private domestic account during 1950.

#### 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 451 operators submitted reports for 1950 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 267 incorporated companies, including 23 in Newfoundland and 184 individual owners or partnerships, including 70 in Newfoundland. This compares with 432 operators in 1949, of which 263 were incorporated and 169 were individual owners or partnerships.

#### Property Account

Tables 1 and 2 present a summary of property assets. The net value of these assets at the end of 1950 after deduction for accrued depreciation dropped from \$158,286,000 one year earlier to \$124,695,000, a decrease of over 20 p.c. There has been a steady decline from the wartime peak. In 1946 net value was placed at \$198.3 million (after depreciation against the Park Steamship Company fleet of some \$95 millions alone).

All divisions reported lower net value of assets at the end of the year. The Atlantic division including Newfoundland was down from \$107,875,000 to \$76,917,255, due mainly to sales or transfers of vessels to other registry while the Pacific declined from \$18,410,000 to \$16,527,000. The inland division showed only a normal reduction (due mainly to depreciation) at \$31,251,000 against \$32,001,000 one year earlier. The Canadian decrease was confined to incorporated companies as individual ownership value rose from \$2,407,000 to \$2,823,000. In the national summary, land, vessels, and other buildings accounts were lower while the balance moved to higher levels.

#### Income Account

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

During 1948 bidding for deep-sea cargoes had become much keener than in the previous year with foreign fleets on a stronger competitive basis, and consequently ocean freight rates began to decline. By the end of the year, Canadian deep-sea shipping had reached the line of demarcation between a profitable and unprofitable industry. During the year 1949, the ocean freight market continued to decline. Devaluation of sterling had a pronounced effect and placed Canadian operators in an even more precarious competitive position. The daily costs of operating a vessel under Canadian registry and regulations are double those for a British vessel. (See table on page 23 of our 1948 report.) The Canadian industry also suffered a severe blow from the



effects of the strike by the communist-led Canadian Seaman's Union which was called on March 31st of 1949 and lasted  $6\frac{1}{2}$  months. It had widespread repercussions on Canadian shipping throughout the world.

Such a combination of events in the face of a rapid rehabilitation and modernization of the traditional low cost trading fleets of Britain, Norway, Greece, Holland, Italy and France was quickly reflected in the income data for Canadian deep sea operators. Foreign vessels of light draft resumed regular service into the Great Lakes from Europe and only the worsening in international relations, activity in Korea and defense stockpiling brought a halt to the downward trend of Canada's shipping position on the high seas. But the basic economic problem remains - it is not solved by temporary betterment in overseas trade. European countries look to their fleets to earn the dollar currency so essential to their economies. Faster, cheaper, more modern and efficient vessels, lower daily operating costs, depreciation benefits and government subsidies are factors which must be met by Canadian operators in the world shipping market. Gross income of the industry stood at \$230.6 million in 1948, it declined to \$213.8 in 1949 even with the addition of Newfoundland and further to \$190.8 in 1950. Net income after income tax dropped from \$16.8 in 1948 to \$10.8 million in 1949 and \$10.7 in 1950. The Atlantic and Inland divisions registered improved profits over 1949 but the Pacific division was reduced from \$2,862,000 to a profit of \$1,561,000 for 1950. Subsidized essential coastal services received \$3,401,943 from the Federal Government in the fiscal year ended March 31, 1951, while 37 vessels earned \$75,000 each or a total subsidy of probably \$2,775,000 under the ocean-going plan.

#### Employment and Earnings

The industry gave employment to 19,905 and paid out \$40,103,062 in salaries and wages during 1950 as compared with 20,520 persons receiving \$41,962,209 in 1949, a decline of 3 p.c. in employment and 4.5 p.c. in payments. The value of meals supplied free to employees rose from \$5,023,011 to \$5,745,542 or by 14.4 p.c. in line with the increase in food prices. Lodging provided was not given a value but often represents a worthwhile increment to vessel crews.

While annual average earnings in some cases may appear relatively low during a period of rising national wage rates and high economic activity, it should be noted that considerable of the water transportation industry operates on a seasonal basis 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 recompense.

Average earnings of dock and warehouse workers eased to \$1,884 for 1950 compared with \$1,978 in 1949, \$1,877 in 1948 and \$1,213 in 1947, while vessel crews averaged \$1,976 in 1950 against \$2,014 one year earlier. (The season of navigation on the Great Lakes was shorter in 1950 as compared with 1949. The Welland Ship Canal operated 266 days against 291 days in 1949).

In 1950, salaries and wages represented 23.1 p.c. of total operating expenses against 21.8 p.c. one year previously, and 27.2 p.c. when combined with the value of meals supplied.



About 96 p.c. of salary and wage payments were made to Canadian-domiciled employees. Withdrawals by operators or 'entrepreneurs' for their services, and not included with salaries and wages, amounted to \$165,715.

#### Fuel Consumption and Cost

Expenditures on vessel fuels and the amounts consumed are shown in table 7. 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 amount of fuel oil consumed dropped from 237.3 million gallons in 1949 to 200 million gallons in 1950 while the cost to the operators eased from \$14.5 million in 1949 to \$12.9 million in 1950. The average cost per gallon therefore rose from 6.1 cents in 1949 to 6.4 cents in 1950. The drop in the total cost of all fuel consumed was from \$25.6 million in 1949 to \$23.2 million in 1950 due to reduced distance logged.

Total coal consumption was down from 779,867 tons in 1949 to 725,410 tons in 1950. The average cost per ton declined from \$11.00 to \$10.40. Diesel oil consumption was up from 16.8 million gallons in 1949 to 17.6 million in 1950. The average cost per gallon rose from 13.5 to 14.5 cents. Gasoline consumption was down from 422,657 gallons in 1949 to 393,319 in 1950. The average cost per gallon, however, rose from 28.3 to 30.5 cents.

There is a wide spread (6.4 to 18.5 cents) between fuel oil costs per gallon purchased by incorporated companies and the individual owners, suggesting that the large operators purchase fuel oil in volume at ports of oil producing countries such as Mexico, where prices were much lower than in Canada.

#### Vessels Operated During the Season of Navigation

Table 8 introduces the number of all vessels operated during the year by class of vessel by divisions and is not comparable to information furnished in previous reports. A total of 1,906 vessels were shown for 1950 including 720 freighters accounting for 37.7 p.c. of the total and 467 tow barges and scows representing 24.5 p.c. There were 825 vessels listed in the Atlantic division, 656 in the Pacific and 425 in Inland service.

Vessels Owned and Chartered as at End of Season

Table 9 gives the disposition of vessels in operation during the season and at end of season covering both owned and chartered segments separately by divisions and type of operator. It indicates that 80 p.c. of total vessels in operation during 1950 were owner-operated and 20 p.c. chartered. There were 91 vessels which were not operated at all for various reasons during the year. At the end of 1949 some 1,739 vessels were shown as still in operation whereas the 1950 total is given as 1,675 for a decrease of 64.

Accidents, 1950

A decided improvement was indicated over the preceding year which had experienced a tragic fire on the passenger cruise ship, the Noronic, in Toronto Harbour that cost 119 passengers their lives. The total number of deaths in the industry for 1950 was 28 compared with 137 in 1949, 38 in 1948, 89 in 1947 and 26 for 1946. There were 20 crew members, 7 passengers and 1 other person comprising the 1950 toll. Injuries occurred to 1,763 during the period under review against 1,995 in 1949 and 2,166 in 1948, reflecting a steady betterment in safety performance. Crew members contributed 1,336 or nearly 76 p.c. of those injured while other employees represented 22 p.c. Passengers injured dropped from 115 in 1949 to 33. The reduced passenger service offered on the Great Lakes - St. Lawrence helped towards the improvement over 1949. Scheduled passenger travel on the St. Lawrence canals was virtually eliminated by the century old "Rapids" service being abandoned.

There were 14 vessels valued at \$357,473 lost during 1950 compared with 11 estimated to be worth \$1,892,035 in 1949, the latter figure inflated by the Noronic disaster. In 1948, 16 vessels valued at \$438,296 were reported lost. The 1950 total was divided - 6 in the Atlantic, 5 Inland and 3 in the Pacific division.

STATEMENT OF PROPERTY ACCOUNT IN THE CANADIAN  
WATER TRANSPORTATION INDUSTRY  
1949 and 1950

TABLE 1

|                               | A.<br>Gross Addition<br>during Year 1950 | B.<br>Total as at<br>End of Year 1950 | Total as at<br>End of Year 1949 |
|-------------------------------|--|---------------------------------------|---------------------------------|
|                               | \$                                       | \$                                    | \$                              |
| Land                          | 18,380                                   | 3,619,637                             | 3,907,415                       |
| Vessels                       | 12,962,576                               | 204,535,472                           | 231,347,746                     |
| Docks, Wharves and Warehouses | 453,848                                  | 7,755,943                             | 7,319,360                       |
| Other Buildings               | 369,810                                  | 5,223,749                             | 5,276,924                       |
| Supplies and Spare Equipment  | 238,971                                  | 1,610,515                             | 1,224,646                       |
| Other                         | 1,543,264                                | 7,886,833                             | 6,985,773                       |
| Total                         | 15,586,849                               | 230,632,149                           | 256,061,864                     |
| Less Depreciation             | -  | 105,936,679                           | 97,775,901                      |
| Net Value                     | -  | 124,695,470                           | 158,285,963                     |

TABLE 2

## PROPERTY ACCOUNT IN THE CANADIAN

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

1950

|   | Land      | Vessels     | Docks<br>Wharves<br>Warehouses | Other<br>Buildings | Supplies<br>& Spare<br>Equipment | Other     | Total       | Accrued<br>Depreciation | Net<br>Value |
|---|-----------|-------------|--------------------------------|--------------------|----------------------------------|-----------|-------------|-------------------------|--------------|
|   | \$        | \$          | \$                             | \$                 | \$                               | \$        | \$          | \$                      | \$           |
| <u>INCORPORATED COMPANIES</u>                 |           |             |                                |                    |                                  |           |             |                         |              |
| Atlantic Division                             | 148,171   | 131,977,816 | 777,805                        | 196,465            | 692,690                          | 3,045,147 | 136,838,094 | 61,798,651              | 75,039,443   |
| Pacific Division                              | 172,311   | 25,280,885  | 412,751                        | 105,483            | 321,513                          | 1,048,811 | 27,341,754  | 11,464,408              | 15,877,346   |
| Inland (including the Great Lakes)            | 3,267,672 | 43,133,735  | 6,504,246                      | 4,896,703          | 558,435                          | 3,766,158 | 62,116,949  | 31,161,127              | 30,955,822   |
| Total   | 3,588,154 | 200,392,436 | 7,694,802                      | 5,198,651          | 1,572,638                        | 7,850,116 | 226,296,797 | 104,424,186             | 121,872,611  |
| <u>INDIVIDUAL OWNERSHIP &amp; PARTNERSHIP</u> |           |             |                                |                    |                                  |           |             |                         |              |
| Atlantic Division                             | 14,850    | 2,926,091   | 36,136                         | 16,649             | 15,160                           | 13,280    | 3,022,166   | 1,144,354               | 1,877,812    |
| Pacific Division                              | 9,033     | 912,278     | 2,143                          | 1,574              | 2,719                            | 10,923    | 938,670     | 289,268                 | 649,402      |
| Inland (including the Great Lakes)            | 7,600     | 304,667     | 22,862                         | 6,875              | 19,998                           | 12,514    | 374,516     | 78,871                  | 295,645      |
| Total   | 31,483    | 4,143,036   | 61,141                         | 25,098             | 37,877                           | 36,717    | 4,335,352   | 1,512,493               | 2,822,859    |
| <u>ALL OPERATORS</u>                          |           |             |                                |                    |                                  |           |             |                         |              |
| Total Atlantic Division                       | 163,021   | 134,903,907 | 813,941                        | 213,114            | 707,850                          | 3,058,427 | 139,860,260 | 62,943,005              | 76,917,255   |
| Total Pacific Division                        | 181,344   | 26,193,163  | 414,894                        | 107,057            | 324,232                          | 1,059,734 | 28,280,424  | 11,753,676              | 16,526,748   |
| Total Inland (including the Great Lakes)      | 3,275,272 | 43,438,402  | 6,527,108                      | 4,903,578          | 578,433                          | 3,768,672 | 62,491,465  | 31,239,998              | 31,251,467   |
| Total   | 3,619,637 | 204,535,472 | 7,755,943                      | 5,223,749          | 1,610,515                        | 7,886,833 | 230,632,149 | 105,936,679             | 124,695,470  |



TABLE 3

THE CANADIAN WATER TRANSPORTATION INDUSTRY

1 9 5 0

SUMMARY INCOME ACCOUNT

| <u>Operating Revenues</u>       |                    | <u>Operating Expenses</u>            |                    |
|---------------------------------|--------------------|--------------------------------------|--------------------|
| Passenger                       | 5,688,896          | Maintenance                          | 14,684,328         |
| Freight                         | 146,134,617        | Operation                            | 100,914,836        |
| Towing                          | 11,329,987         | Advertising                          | 557,166            |
| Salvage                         | 71,773             | Insurance                            | 7,931,418          |
| Storage                         | 7,826              | Administration & General             | 10,517,931         |
| Charter                         | 16,639,404         | Depreciation                         | 16,170,759         |
| Other                           | 7,847,254          | Taxes (excluding Income Taxes)       | 201,068            |
|                                 |                    | Rentals for Vessels, Buildings, etc. | 18,175,311         |
| <b>Total Operating Revenues</b> | <b>187,719,757</b> | <b>Total Operating Expenses</b>      | <b>169,152,817</b> |
| <b>Other Income</b>             | <b>3,052,827</b>   | <b>Other Expenses</b>                | <b>3,735,824</b>   |
| <b>Gross Income</b>             | <b>190,772,584</b> | <b>Total Expenses</b>                | <b>172,888,641</b> |

|                              |                          |
|------------------------------|--------------------------|
| Gross Income                 | 190,772,584              |
| Total Expenses               | <u>172,888,641</u>       |
| Net Income before Income Tax | 17,883,943               |
| Provision for Income Tax     | <u>7,223,235</u>         |
| Profit for Year              | <u><u>10,660,708</u></u> |



INCOME ACCOUNT IN THE CANADIAN  
WATER TRANSPORTATION INDUSTRY, BY DIVISIONS

1 9 5 0

|                                       | Incorporated & Individual Ownership & Partnership |                     |  |             |
|---------------------------------------|---|---------------------|--|-------------|
|                                       | Atlantic<br>Division                              | Pacific<br>Division | Inland<br>Division<br>(including<br>Great Lakes) | Total       |
|                                       | \$  | \$                  | \$   | \$          |
| <u>OPERATING REVENUE</u>              |   |                     |  |             |
| Passenger                             | 2,037,299   | 640,674             | 3,010,923  | 5,688,896   |
| Freight                               | 94,710,602  | 21,573,957          | 29,850,058                                       | 146,134,617 |
| Towing                                | 1,084,753   | 9,486,193           | 759,041  | 11,329,987  |
| Salvage                               | 47,289  | 19,165              | 5,219  | 71,773      |
| Storage                               | 1,545   | 4,148               | 2,133  | 7,826       |
| Charter                               | 14,521,657  | 1,877,001           | 240,746  | 16,639,404  |
| Other                                 | 5,172,899   | 1,372,538           | 1,301,817  | 7,847,254   |
| Total Operating Revenue               | 117,576,044                                       | 34,973,676          | 35,170,037                                       | 187,719,757 |
| Other Income                          | 1,744,527   | 269,164             | 1,039,136  | 3,052,827   |
| Gross Income                          | 119,320,571                                       | 35,242,840          | 36,209,173                                       | 190,772,584 |
| <u>OPERATING EXPENSES</u>             |   |                     |  |             |
| Maintenance                           | 8,500,421   | 2,658,036           | 3,525,871  | 14,684,328  |
| Operation                             | 60,122,060  | 19,387,103          | 21,405,673                                       | 100,914,836 |
| Advertising                           | 316,700   | 65,157              | 175,309  | 557,166     |
| Insurance                             | 5,630,006   | 1,589,004           | 712,408  | 7,931,418   |
| Administration                        | 6,291,737   | 1,535,796           | 2,690,398  | 10,517,931  |
| Depreciation                          | 10,882,819  | 2,358,189           | 2,929,751  | 16,170,759  |
| Taxes                                 | 130,983   | 23,523              | 46,562   | 201,068     |
| Rentals                               | 13,390,022  | 4,652,233           | 133,056  | 18,175,311  |
| Total Operating Expenses              | 105,264,748                                       | 32,269,041          | 31,619,028                                       | 169,152,817 |
| Other Expenses (excluding Income Tax) | 2,890,748   | 382,017             | 463,059  | 3,735,824   |
| Total Expenses                        | 108,155,496                                       | 32,651,058          | 32,082,087                                       | 172,888,641 |
| Net Income before Income Tax          | 11,165,075  | 2,591,782           | 4,127,086  | 17,883,943  |
| Less Provision for Income Tax         | 4,254,354   | 1,030,817           | 1,938,064  | 7,223,235   |
| Profit for Year                       | 6,910,721   | 1,560,965           | 2,189,022  | 10,660,708  |

TABLE 5

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

1950

|                                       | 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                             | 1,937,575          | 625,618           | 2,966,807                               | 99,724                             | 15,056           | 44,116                                  | 5,688,896          |
| Freight                               | 93,111,131         | 21,557,243        | 29,817,986                              | 1,599,471                          | 16,714           | 32,072                                  | 146,134,617        |
| Towing                                | 1,069,843          | 8,947,458         | 754,367                                 | 14,910                             | 538,735          | 4,674                                   | 11,329,987         |
| Salvage                               | 47,289             | 17,275            | -                                       | -                                  | 1,790            | 5,319                                   | 71,773             |
| Storage                               | 1,545              | 4,148             | 1,466                                   | -                                  | -                | 667                                     | 7,826              |
| Charter                               | 14,322,097         | 1,784,761         | 236,794                                 | 199,560                            | 92,240           | 3,952                                   | 16,639,404         |
| Other                                 | 5,018,529          | 1,345,446         | 1,237,875                               | 154,370                            | 27,092           | 63,942                                  | 7,847,254          |
| <b>Total Operating Revenue</b>        | <b>115,508,009</b> | <b>34,282,049</b> | <b>35,015,295</b>                       | <b>2,068,035</b>                   | <b>691,627</b>   | <b>154,742</b>                          | <b>187,719,757</b> |
| Other Income                          | 1,736,837          | 259,376           | 1,039,136                               | 7,690                              | 9,738            | -                                       | 3,052,827          |
| <b>Gross Income</b>                   | <b>117,244,846</b> | <b>34,541,425</b> | <b>36,054,431</b>                       | <b>2,075,725</b>                   | <b>701,415</b>   | <b>154,742</b>                          | <b>190,772,584</b> |
| <b>OPERATING EXPENSES</b>             |                    |                   |   |                                    |                  |   |                    |
| Maintenance                           | 8,243,279          | 2,592,034         | 3,510,797                               | 257,142                            | 66,002           | 15,074                                  | 14,684,328         |
| Operation                             | 58,974,209         | 19,134,728        | 21,338,221                              | 1,147,851                          | 252,375          | 67,452                                  | 100,914,836        |
| Advertising                           | 311,805            | 62,991            | 171,018                                 | 4,895                              | 2,166            | 4,291                                   | 557,166            |
| Insurance                             | 5,492,878          | 1,557,464         | 699,795                                 | 137,128                            | 31,540           | 12,613                                  | 7,931,418          |
| Administration                        | 6,175,592          | 1,490,504         | 2,684,285                               | 116,145                            | 45,292           | 6,113                                   | 10,517,931         |
| Depreciation                          | 10,672,884         | 2,277,310         | 2,908,334                               | 209,935                            | 80,879           | 21,417                                  | 16,170,759         |
| Taxes                                 | 130,069            | 22,233            | 45,769                                  | 914                                | 1,290            | 793                                     | 201,068            |
| Rentals                               | 13,386,514         | 4,637,507         | 130,056                                 | 3,508                              | 14,726           | 3,000                                   | 18,175,311         |
| <b>Total Operating Expenses</b>       | <b>103,387,330</b> | <b>31,774,771</b> | <b>31,488,275</b>                       | <b>1,877,518</b>                   | <b>494,370</b>   | <b>130,753</b>                          | <b>169,152,817</b> |
| Other Expenses (excluding Income Tax) | 2,869,814          | 373,908           | 456,371                                 | 20,934                             | 8,109            | 6,688                                   | 3,735,824          |
| <b>Total Expenses</b>                 | <b>106,257,044</b> | <b>32,148,679</b> | <b>31,944,646</b>                       | <b>1,898,452</b>                   | <b>502,379</b>   | <b>137,441</b>                          | <b>172,888,641</b> |
| Net Income before Income Tax          | 10,987,802         | 2,392,746         | 4,109,785                               | 177,273                            | 199,036          | 17,301                                  | 17,883,943         |
| Less Provision for Income Tax         | 4,230,706          | 1,015,891         | 1,937,627                               | 33,648                             | 14,926           | 437                                     | 7,223,235          |
| <b>Profit for Year</b>                | <b>6,767,096</b>   | <b>1,376,855</b>  | <b>2,172,158</b>                        | <b>143,625</b>                     | <b>184,110</b>   | <b>16,864</b>                           | <b>10,660,708</b>  |

TABLE 6

NUMBER OF EMPLOYEES AND EARNINGS IN THE CANADIAN  
WATER TRANSPORTATION INDUSTRY BY TYPE OF OPERATOR, BY DIVISIONS  
1950

|   | 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 |   |                         |  |
|   |              | \$                 |                              | \$                 |                                 | \$                 |                 | \$                 |        | \$                 | \$  | \$                      | \$   |
| <u>INCORPORATED COMPANIES</u>                 |              |                    |                              |                    |                                 |                    |                 |                    |        |                    |   |                         |  |
| Atlantic Division                             | 8,433        | 17,897,291         | 853                          | 939,728            | 834                             | 2,565,414          | 51              | 62,143             | 10,171 | 21,464,576         | 24,850  | 3,292,185               | 20,435,721   |
| Pacific Division                              | 2,238        | 5,511,193          | 214                          | 469,614            | 258                             | 898,758            | 80              | 273,137            | 2,790  | 7,152,702          | 4,842   | 949,507                 | 6,591,674  |
| Inland (Including the Great Lakes)            | 3,750        | 5,774,054          | 1,390                        | 3,228,633          | 812                             | 1,468,077          | 237             | 256,850            | 6,189  | 10,727,614         | -   | 1,390,524               | 10,703,262   |
| Total   | 14,421       | 29,182,538         | 2,457                        | 4,637,975          | 1,904                           | 4,932,249          | 368             | 592,130            | 19,150 | 39,344,892         | 29,692  | 5,632,316               | 37,730,557   |
| <u>INDIVIDUAL OWNERSHIP &amp; PARTNERSHIP</u> |              |                    |                              |                    |                                 |                    |                 |                    |        |                    |   |                         |  |
| Atlantic Division                             | 620          | 557,012            | 6                            | 6,371              | 5                               | 7,265              | 9               | 5,408              | 640    | 576,056            | 42,880  | 95,503                  | 570,867  |
| Pacific Division                              | 59           | 131,569            | -                            | 355                | 10                              | 14,130             | 1               | 360                | 70     | 146,414            | 80,030  | 14,173                  | 146,414  |
| Inland (Including the Great Lakes)            | 32           | 25,717             | 5                            | 5,130              | 4                               | 2,579              | 4               | 2,374              | 45     | 35,700             | 13,113  | 3,550                   | 35,700   |
| Total   | 711          | 714,298            | 11                           | 11,856             | 19                              | 23,974             | 14              | 8,042              | 755    | 758,170            | 136,023   | 113,226                 | 752,981  |
| <u>ALL OPERATORS</u>                          |              |                    |                              |                    |                                 |                    |                 |                    |        |                    |   |                         |  |
| Total Atlantic Division                       | 9,053        | 18,454,303         | 859                          | 946,099            | 839                             | 2,572,679          | 60              | 67,551             | 10,811 | 22,040,632         | 67,730  | 3,387,688               | 21,006,588   |
| Total Pacific Division                        | 2,297        | 5,642,762          | 214                          | 469,969            | 268                             | 912,888            | 81              | 273,497            | 2,860  | 7,299,116          | 84,872  | 963,780                 | 6,738,088  |
| Total Inland (Including the Great Lakes)      | 3,782        | 5,799,771          | 1,395                        | 3,233,763          | 816                             | 1,470,656          | 241             | 259,124            | 6,234  | 10,763,314         | 13,113  | 1,394,074               | 10,738,962   |
| Total   | 15,132       | 29,896,836         | 2,468                        | 4,649,831          | 1,923                           | 4,956,223          | 382             | 600,172            | 19,905 | 40,103,062         | 165,715   | 5,745,542               | 38,483,638   |



EXPENDITURES ON FUEL AND AMOUNT CONSUMED

TABLE 7

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

1950

|   | 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                             | 360,802     | 3,882,704 | 150,546,911        | 9,890,410  | 9,393,693            | 1,226,469 | 11,205             | 3,394   | 55         | 15,003,032 |
| Pacific Division                              | 2,066       | 24,813    | 43,866,421         | 2,406,369  | 5,269,534            | 837,023   | 98,023             | 25,921  | 119,691    | 3,413,817  |
| Inland (including the Great Lakes)            | 357,012     | 3,569,614 | 4,939,591          | 456,248    | 2,048,949            | 336,237   | 146,547            | 49,272  | 5,314      | 4,416,785  |
| Total   | 719,880     | 7,477,131 | 199,352,923        | 12,753,027 | 16,712,376           | 2,399,729 | 255,775            | 78,687  | 125,060    | 22,833,634 |
| <u>INDIVIDUAL OWNERSHIP &amp; PARTNERSHIP</u> |             |           |                    |            |                      |           |                    |         |            |            |
| Atlantic Division                             | 5,489       | 58,920    | 593,723            | 112,148    | 559,000              | 90,208    | 61,998             | 22,890  | 65         | 284,251    |
| Pacific Division                              | 2           | 42        | 43,961             | 5,715      | 327,047              | 50,800    | 16,810             | 4,473   | -          | 61,030     |
| Inland (including the Great Lakes)            | 39          | 612       | -                  | -          | 25,985               | 6,200     | 38,736             | 13,762  | 966        | 21,540     |
| Total   | 5,530       | 59,574    | 637,684            | 117,863    | 912,032              | 147,208   | 137,544            | 41,125  | 1,051      | 366,821    |
| <u>ALL OPERATORS</u>                          |             |           |                    |            |                      |           |                    |         |            |            |
| Total Atlantic Division                       | 366,291     | 3,941,624 | 151,140,634        | 10,002,558 | 9,952,893            | 1,316,677 | 93,203             | 26,284  | 140        | 15,287,283 |
| Total Pacific Division                        | 2,068       | 24,855    | 43,910,382         | 2,412,084  | 5,596,581            | 887,823   | 114,833            | 30,394  | 119,691    | 3,474,847  |
| Total Inland (including the Great Lakes)      | 357,051     | 3,570,226 | 4,939,591          | 456,248    | 2,074,934            | 342,437   | 185,283            | 63,134  | 6,280      | 4,438,325  |
| Total   | 725,410     | 7,536,705 | 199,990,607        | 12,870,890 | 17,624,408           | 2,546,937 | 393,319            | 119,812 | 126,111    | 23,200,455 |

- 12 -

SUMMARY OF EXPENDITURES ON FUEL

| <u>Kind of Fuel</u> | <u>Cost \$</u>    |
|---------------------|-------------------|
| Coal                | 7,536,705         |
| Fuel Oil            | 12,870,890        |
| Diesel Oil          | 2,546,937         |
| Gasoline            | 119,812           |
| Other               | 126,111           |
| <u>Total</u>        | <u>23,200,455</u> |



TABLE 8

## VESSELS OPERATED BY CANADIAN MARINE OPERATORS

## BY TYPE OF OPERATOR, BY DIVISIONS

1950

|   | Class of Vessel |                       |           |        |      |                      | Miscellaneous Vessels | Total Operated |
|---|-----------------|-----------------------|-----------|--------|------|----------------------|-----------------------|----------------|
|   | Passenger       | Passenger and Freight | Freight * | Tanker | Tugs | Tow Barges and Scows |                       |                |
| <u>Incorporated Companies</u>               |                 |                       |           |        |      |                      |                       |                |
| Atlantic Division                           | 10              | 39                    | 448       | 68     | 52   | 27                   | 14                    | 658            |
| Pacific Division                            | 18              | 20                    | 77        | 10     | 180  | 272                  | 25                    | 602            |
| Inland (including the Great Lakes)          | 18              | 14                    | 83        | 7      | 61   | 138                  | 59                    | 380            |
| Total                                       | 46              | 73                    | 608       | 85     | 293  | 437                  | 98                    | 1,640          |
| <u>Individual Ownership and Partnership</u> |                 |                       |           |        |      |                      |                       |                |
| Atlantic Division                           | 28              | 19                    | 106       | 2      | 2    | 4                    | 6                     | 167            |
| Pacific Division                            | 1               | 2                     | 5         | -      | 29   | 15                   | 2                     | 54             |
| Inland (including the Great Lakes)          | 12              | 8                     | 1         | 1      | 10   | 11                   | 2                     | 45             |
| Total                                       | 41              | 29                    | 112       | 3      | 41   | 30                   | 10                    | 266            |
| <u>All Operators</u>                        |                 |                       |           |        |      |                      |                       |                |
| Total Atlantic Division                     | 38              | 58                    | 554       | 70     | 54   | 31                   | 20                    | 825            |
| Total Pacific Division                      | 19              | 22                    | 82        | 10     | 209  | 287                  | 27                    | 656            |
| Total Inland (including the Great Lakes)    | 30              | 22                    | 84        | 8      | 71   | 149                  | 61                    | 425            |
| Total                                       | 87              | 102                   | 720       | 88     | 334  | 467                  | 108                   | * 1,906        |

\* Excludes 8 vessels of the Park Steamship Company which were chartered abroad.

VESSELS OWNED OR CHARTERED  
IN OPERATION DURING AND AT END OF SEASON, BY CANADIAN MARINE OPERATORS  
BY TYPE OF OPERATOR, BY DIVISIONS

1 9 5 0

|   | 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                             | 11                 | 1 | 11               | 1 | 1  | 52                    | 5 | 28               | 5 | 4  | 227                | 221 | 195              | 50 | 9  |
| Pacific Division                              | 17                 | 1 | 17               | 1 | -  | 19                    | - | 18               | - | 3  | 25                 | 61  | 19               | 16 | 1  |
| Inland (including the Great Lakes)            | 18                 | - | 18               | - | -  | 14                    | - | 13               | - | 2  | 65                 | -   | 75               | -  | 2  |
| Total   | 46                 | 2 | 46               | 2 | 1  | 65                    | 5 | 59               | 5 | 9  | 333                | 282 | 287              | 66 | 12                                       |
| <u>INDIVIDUAL OWNERSHIP &amp; PARTNERSHIP</u> |                    |   |                  |   |  |                       |   |                  |   |  |                    |     |                  |    |  |
| Atlantic Division                             | 28                 | - | 28               | - | 2  | 20                    | - | 20               | - | -  | 101                | 6   | 95               | 6  | 3  |
| Pacific Division                              | 1                  | - | 1                | - | -  | 2                     | - | 2                | - | -  | 5                  | -   | 5                | -  | -  |
| Inland (including the Great Lakes)            | 12                 | - | 9                | - | -  | 8                     | - | 8                | - | 3  | 1                  | -   | 1                | -  | -  |
| Total   | 41                 | - | 38               | - | 2  | 30                    | - | 30               | - | 3  | 107                | 6   | 101              | 6  | 3  |
| <u>TOTAL VESSELS</u>                          |                    |   |                  |   |  |                       |   |                  |   |  |                    |     |                  |    |  |
| Atlantic Division                             | 59                 | 1 | 39               | 1 | 3  | 52                    | 5 | 48               | 5 | 4  | 328                | 227 | 290              | 56 | 12                                       |
| Pacific Division                              | 18                 | 1 | 18               | 1 | -  | 21                    | - | 20               | - | 3  | 28                 | 61  | 24               | 16 | 1  |
| Inland (including the Great Lakes)            | 30                 | - | 27               | - | -  | 22                    | - | 21               | - | 5  | 84                 | -   | 74               | -  | 2  |
| Total   | 87                 | 2 | 84               | 2 | 3  | 95                    | 5 | 89               | 5 | 12                                       | 440                | 288 | 388              | 72 | 15                                       |

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

^ Excludes 8 vessels of Park Steamship Company which were chartered abroad.

VESSELS OWNED OR CHARTERED  
IN OPERATION DURING AND AT END OF SEASON, BY CANADIAN MARINE OPERATORS  
BY TYPE OF OPERATOR, BY DIVISIONS  
1950

| Tankers                          |    |                  |   |  | Tugs                             |    |                  |    |  | Tow Barges & Scows               |    |                  |    |  | Miscellaneous Vessels            |   |    |   |  | Total All Vessels                |     |       |     |  |
|----------------------------------|----|------------------|---|--|----------------------------------|----|------------------|----|--|----------------------------------|----|------------------|----|--|----------------------------------|---|----|---|--|----------------------------------|-----|-------|-----|--|
| Total in Operation during Season |    |                  |   | Owned Vessels not Operated during Season | Total in Operation during Season |    |                  |    | Owned Vessels not Operated during Season | Total in Operation during Season |    |                  |    | Owned Vessels not Operated during Season | Total in Operation during Season |   |    |   | Owned Vessels not Operated during Season | Total in Operation during Season |     |       |     | Owned Vessels not Operated during Season |
| at end of Season                 |    | at end of Season |   |  | at end of Season                 |    | at end of Season |    |  | at end of Season                 |    | at end of 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   |  |
| 51                               | 17 | 51               | 3 | 1  | 49                               | 3  | 45               | 6  | 12                                       | 26                               | 1  | 23               | 1  | 11                                       | 14                               | - | 14 | - | 2  | 410                              | 248 | 365   | 64  | 40                                       |
| 14                               | 6  | 14               | 5 | -  | 160                              | 15 | 156              | 10 | 1  | 227                              | 44 | 226              | 39 | 2  | 16                               | 1 | 14 | 1 | 4  | 476                              | 126 | 464   | 72  | 11                                       |
| 7                                | -  | 7                | - | -  | 59                               | 2  | 57               | 1  | 16                                       | 138                              | -  | 135              | -  | 4  | 59                               | - | 59 | - | 2  | 378                              | 2   | 362   | 1   | 26                                       |
| 72                               | 23 | 72               | 8 | 1  | 268                              | 18 | 256              | 17 | 29                                       | 391                              | 45 | 384              | 40 | 17                                       | 89                               | 1 | 87 | 1 | 8  | 1,264                            | 376 | 1,191 | 137 | 77                                       |
| -                                | -  | -                | - | -  | 2                                | -  | 2                | -  | 1  | 3                                | 1  | 3                | 1  | 1  | 6                                | - | 6  | - | 2  | 160                              | 7   | 154   | 7   | 9  |
| -                                | -  | -                | - | -  | 28                               | 1  | 27               | 1  | 2  | 14                               | 1  | 14               | 1  | -  | 2                                | - | 2  | - | -  | 52                               | 2   | 51    | 2   | 2  |
| 1                                | -  | 1                | - | -  | 10                               | -  | 10               | -  | -  | 11                               | -  | 11               | -  | -  | 2                                | - | 2  | - | -  | 45                               | -   | 42    | -   | 3  |
| 1                                | -  | 1                | - | -  | 40                               | 1  | 39               | 1  | 3  | 28                               | 2  | 28               | 2  | 1  | 10                               | - | 10 | - | 2  | 257                              | 9   | 247   | 9   | 14                                       |
| 51                               | 17 | 51               | 3 | 1  | 51                               | 3  | 45               | 6  | 13                                       | 29                               | 2  | 26               | 2  | 12                                       | 20                               | - | 20 | - | 4  | 570                              | 255 | 519   | 71  | 49                                       |
| 14                               | 6  | 14               | 5 | -  | 188                              | 14 | 183              | 11 | 3  | 241                              | 45 | 240              | 40 | 2  | 18                               | 1 | 16 | 1 | 4  | 528                              | 128 | 515   | 74  | 13                                       |
| 8                                | -  | 8                | - | -  | 69                               | 2  | 67               | 1  | 16                                       | 149                              | -  | 146              | -  | 4  | 61                               | - | 61 | - | 2  | 423                              | 2   | 404   | 1   | 29                                       |
| 73                               | 23 | 73               | 8 | 1  | 308                              | 19 | 295              | 18 | 32                                       | 419                              | 47 | 412              | 42 | 18                                       | 99                               | 1 | 97 | 1 | 10                                       | 1,521                            | 385 | 1,438 | 146 | 91                                       |

TABLE 10


NUMBER OF PERSONS KILLED OR INJURED IN THE CANADIAN  
WATER TRANSPORTATION INDUSTRY, BY TYPE OF OPERATOR, BY DIVISION (1)  
1950

|   | 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                             | 6               | 643     | -               | 6       | -          | 21      | -             | 2       | 6      | 672     | 1            | 32,000  |
| Pacific Division                              | 9               | 325     | -               | 16      | -          | -       | -             | -       | 9      | 341     | 2            | 120,609 |
| Inland (including the Great Lakes)            | 4               | 359     | -               | 370     | 7          | 12      | -             | -       | 11     | 741     | 1            | 9,000   |
| Total   | 19              | 1,327   | -               | 392     | 7          | 33      | -             | 2       | 26     | 1,754   | 4            | 161,609 |
| <u>INDIVIDUAL OWNERSHIP &amp; PARTNERSHIP</u> |                 |         |                 |         |            |         |               |         |        |         |              |         |
| Atlantic Division                             | 1               | 4       | -               | -       | -          | -       | -             | -       | 1      | 4       | 5            | 188,081 |
| Pacific Division                              | -               | 5       | -               | -       | -          | -       | 1             | -       | 1      | 5       | 1            | 2,283   |
| Inland (including the Great Lakes)            | -               | -       | -               | -       | -          | -       | -             | -       | -      | -       | 4            | 5,500   |
| Total   | 1               | 9       | -               | -       | -          | -       | 1             | -       | 2      | 9       | 10           | 195,864 |
| <u>ALL OPERATORS</u>                          |                 |         |                 |         |            |         |               |         |        |         |              |         |
| Total Atlantic Division                       | 7               | 647     | -               | 6       | -          | 21      | -             | 2       | 7      | 676     | 6            | 220,081 |
| Total Pacific Division                        | 9               | 330     | -               | 16      | -          | -       | 1             | -       | 10     | 346     | 3            | 122,892 |
| Total Inland (including the Great Lakes)      | 4               | 359     | -               | 370     | 7          | 12      | -             | -       | 11     | 741     | 5            | 14,500  |
| Total   | 20              | 1,336   | -               | 392     | 7          | 33      | 1             | 2       | 28     | 1,763   | 14           | 357,473 |

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



### WATER TRANSPORTATION

| 1950<br>MILLION DOLLARS | \$<br><br>FINANCIAL FACTS<br>\$ | 1949<br>MILLION DOLLARS |
|-------------------------|--|-------------------------|
| 124.7                   | Property Account<br>( Net Value )  | 158.3                   |
| 187.7                   | Operating Revenues   | 210.1                   |
| 169.2                   | Operating Expenses   | 192.4                   |
| 23.2                    | Fuel Consumed<br>( Cost )  | 25.6                    |
| 40.1                    | Employees<br>( Total wages and salaries paid )   | 42.0                    |
| 204.5                   | Vessels as at End of Season<br>( Gross Value )   | 231.3                   |
| 10.7                    | Net Profits  | 10.8                    |





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