

Primary Industry Studies, No. 1

Volume 18

**COSTS AND EARNINGS  
OF  
SELECTED FISHING ENTERPRISES  
ATLANTIC PROVINCES  
1968**

by

JOHN PROSKIE

Economics Branch, Fisheries Service

DEPARTMENT OF FISHERIES AND FORESTRY

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## FOREWORD

This is a report on a study of the economics of 103 primary fishing enterprises. In the first part of this report, the general findings for the 1968 season are examined and discussed and this is followed by specific assessment by provinces. The second part includes detailed tables summarizing the fishing activities and financial results for the fishing enterprises included in the 1968 phase of the study. These are grouped in 25 classes according to region and type and size of fishing craft employed.

The study in 1968 was extended to include for the first time a sample of 49-60 foot crabbers in New Brunswick and 50-footers in Nova Scotia, a sample of 72-foot wooden side draggers in New Brunswick and 87-footers in Quebec, and a sample of 89-foot steel herring purse seiners in Quebec. A limited number of case studies of single records such as 92-foot and 126-foot steel stern trawlers in New Brunswick were also included. However, these were subject to confidential case studies and are not included in this study for general distribution.

During the 1968 season the field work was carried out by the following officers, several of whom also assisted in the work of compilation and analysis:

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The clerical work on the completed field accounts was carried out by Mr. J.P. Charron of the Economics Branch of the Department in Ottawa.

The co-operation of the skippers and/or owners of the fishing enterprises studied is gratefully acknowledged as well as that of the officials of the provincial fishermen's loan boards and the production managers and other officials of fish-processing firms who provided information essential to the study.

Preliminary reports for each of the provinces co-operating were released between July 1968 and January of 1970. Some of the preliminary reports were reproduced in summary form in trade magazines, provincial and federal publications. The detailed data contained in the present report, however, have not been made available previously.

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# COSTS AND EARNINGS OF SELECTED FISHING ENTERPRISES ATLANTIC PROVINCES 1968

By John Proskie

## PART I

### A. GENERAL ASSESSMENT

#### 1. Introduction

Of the 118 fishing enterprises studied in 1968, 103 are included in this report. The remaining 15 enterprises are excluded in cases where the samples comprised less than three<sup>1</sup> vessels, or where the records were incomplete for various reasons such as loss at sea or incomplete recording of data (Table 1).

**Table 1 – Number of Fishing Enterprises Studied in 1968  
Atlantic Provinces**

Province	Number Studied	Number Included	Number Excluded
Newfoundland . . . . .	12	12	—
Nova Scotia . . . . .	39	37	2
New Brunswick . . . . .	20	13	7
Prince Edward Island . . . . .	14	11	3
Quebec . . . . .	33	30	3
Total . . . . .	118	103	15

The 103 fishing enterprises are grouped into 25 classes according to Province, size and type of vessel, species caught, and method of fishing. Although it has been necessary to adjust the samples to allow for shifts in the pattern and direction of development, where feasible, part of the sample has been maintained on a "constant" basis for three years or longer. These enterprises are described under the provincial sections and in Table 1 – Part II of this report.

<sup>1</sup>There were six samples with two enterprises because these were the only ones operating in a new fishery and/or a new design in vessel and gear was introduced for the first time. However in each case the owners of these enterprises gave permission to publish the results of their operations.

The 103 fishing vessels were owned by 136 individuals. The degree of ownership ranged from 2.5 per cent to 100 per cent of the investment in the vessel. Out of 136 owners, 55 were manager-owners and/or silent partners and 81 were fishing their vessels. Out of a total of 743 men fishing from the 103 vessels, 11 per cent were owners and 89 per cent were non-owners i.e. sharemen in various crew categories (Table 4 – Part II).

## II. Investment

As has been shown in previous reports, the return on investment in the Canadian Atlantic Coast primary fishing industry, with few exceptions, has not been sufficiently high to attract the total investment required from private sources of funds. Consequently, the modernization programs have been based on grants provided for the construction of modern fishing vessels, and on the provision of capital in the form of loans at low interest rates. However, these aids in some instances have led prospective owners to build excessively costly vessels. This high capital investment in some cases has not been justified so far by the productivity and output of these vessels.

Data on the amounts of capital made available through various sources and methods of financing the 103 fishing vessels included in this analysis are given in Table 2.

**Table 2 – Total Investment for 103 Fishing Enterprises, 1968  
Atlantic Provinces**

Item	All Enterprises		Unprofitable Enterprises		Profitable Enterprises	
Number of vessels	103		40		63	
	\$	%	\$	%	\$	%
Total original costs . . . . .	26,764,645	97.7	18,002,698	99.2	8,761,947	94.7
Total capital costs <sup>1</sup> . . . . .	27,407,090	100.0	18,151,778	100.0	9,255,312	100.0
<b>Method of Financing</b>						
Fishermen						
Cash . . . . .	6,429,017	23.4	4,892,674	26.9	1,536,343	16.6
Additional . . . . .	240,429	0.9	84,355	0.5	156,074	1.7
Total . . . . .	6,669,446	24.3	4,977,029	27.4	1,692,417	18.3
<b>Boat Construction Assistance</b>						
Federal – original . . . . .	11,590,754	42.3	8,336,780	45.9	3,253,974	35.2
– additional . . . . .	33,637	0.1	–	–	33,637	0.3
Provincial – original . . . . .	11,613	0.1	–	–	11,613	0.1
– additional . . . . .	52,267	0.2	–	–	52,267	0.6
Total . . . . .	11,688,271	42.7	8,336,780	45.9	3,351,491	36.2
<b>FLB and other loans</b>						
Original . . . . .	8,519,793	31.1	4,623,636	25.5	3,896,157	42.1
Additional . . . . .	242,522	0.9	22,235	0.1	220,287	2.4
Total . . . . .	8,762,315	32.0	4,645,871	25.6	4,116,444	44.5
<b>Rented</b>						
Original . . . . .	213,468	0.8	149,608	0.9	63,860	0.7
Additional . . . . .	73,590	0.2	42,490	0.2	31,100	0.3
Total . . . . .	287,058	1.0	192,098	1.1	94,960	1.0
Debt as of Dec. 31/68 . . . . .	7,061,667	25.8	3,975,165	21.9	3,086,502	33.3

<sup>1</sup>Total capital costs up to December 31, 1968.

The 103 fishing vessels were manned by 743 fishermen and the total original capital cost of boats and equipment was \$26,764,645. The average age of the vessels was 4.7 years and the total capital cost up to December 31, 1968 was \$27,407,090. This means that a net addition of capital in the amount of \$642,445 occurred over the 4.7 year average age of the 103 vessels.

The original investment was financed by federal grants in the amount \$11,590,754 and provincial grants of \$11,613, provincial loans (by fishermen's loan boards) \$8,519,793, and rented equipment, mainly electronics, \$213,468. Also, \$6,429,017 was supplied by owner-purchasers as cash-down payment. The data in Table 2 show that the loan boards and others are also involved in financing additional capital expenditures. Of the total of \$642,445 expended on new capital additions, federal grants accounted for \$33,637 and provincial grants for \$52,267, the loan boards supplied \$242,522, electronic equipment suppliers \$73,590, and the balance of \$240,429 was supplied by owners of the vessels. The additional federal and provincial grants were made for conversion of selected vessels from one kind of fishing to another.

Of the 103 enterprises, 46 had to borrow, from various sources, part or nearly all of the cash-down requirement. Further details are given in Table 3.

**Table 3 – Borrowing by Owners of Fishing Enterprises  
To Meet Cash-down Requirements, 1968  
Atlantic Provinces**

Province	All Vessels in Sample	Built with Subsidy	Owners Borrowing Cash-down Payment	Total Amount Borrowed	Average Amount Borrowed per Owner
	no.	no.	no.	\$	\$
Newfoundland .....	12	12	5	8,090	1,618
Nova Scotia .....	37	37	6	155,498	25,916
New Brunswick .....	13	13	7	53,590	7,656
Prince Edward Island .....	11	11	3	22,000	7,333
Quebec .....	30	30	25	169,660	6,786
<b>Total .....</b>	<b>103</b>	<b>103</b>	<b>46</b>	<b>408,838</b>	<b>8,888<sup>1</sup></b>

<sup>1</sup>Average for all owners who borrowed.

The modernization program of the Atlantic Coast primary fishing industry relies heavily on the outright construction grants, low interest rate loans from provincial agencies and also loans from other sources.

It is noted (Table 2) that the investment has been related to profitable and unprofitable enterprises. Further analysis of this will appear later in the report. However, at this point it may be of interest to show the investment per vessel and per man for the profitable and unprofitable enterprises. These are compared in Table 4.

**Table 4 – Average Investment Per Vessel and  
Per Man for 103 Fishing Enterprises, 1968  
Atlantic Provinces**

Item	All Enterprises	Unprofitable Enterprises	Profitable Enterprises
Number of vessels	103	40	63
Average investment	\$	\$	\$
Per vessel .....	266,088	453,794	146,910
Per man .....	36,887	47,025	25,925

The unprofitable enterprises had an average investment of \$453,794 per vessel or \$47,025 per man. The respective figures for the profitable enterprises were \$146,910 and \$25,925. These data will be subject to further analysis and related to output.

### III. Performance

The 103 fishing enterprises manned by 743 men, landed a total of 263,941,738 pounds of fish valued at \$9,119,978 for an average landed price of 3.46 cents per pound during the 1968 season (Tables 5, 6, 7).

Herring was dominant in weight of landings reported by the 103 fishing enterprises studied in 1968. In terms of landed weight, herring is followed by redfish, flounders, cod and haddock. Of the total landings made by unprofitable enterprises, herring accounted for 20.8 per cent, flounders for 23.9, cod for 20.7 per cent and redfish for 13.6 per cent. This group landed proportionately more cod, haddock, pollock, and flounders and more rejected fish but less herring and redfish, compared with the profitable group of vessels. Also 4.3 per cent of total landings by the unprofitable group went into fishmeal production (Table 5).

**Table 5 – Total Quantity of Landings, by Species,  
for 103 Fishing Enterprises, 1968  
Atlantic Provinces**

Item	All Enterprises		Unprofitable Enterprises		Profitable Enterprises	
	lb.	%	lb.	%	lb.	%
Number of vessels	103		40		63	
Number of men	743		386		357	
<b>Species</b>	lb.	%	lb.	%	lb.	%
Cod . . . . .	41,645,364	15.8	27,273,908	20.7	14,371,456	10.9
Haddock . . . . .	19,375,549	7.3	15,178,204	11.5	4,197,345	3.2
Pollock . . . . .	5,168,142	1.9	4,202,019	3.2	966,123	0.7
Hake . . . . .	728,486	0.3	518,525	0.4	209,961	0.2
Cusk . . . . .	247,271	0.1	196,050	0.1	51,221	Ø
Halibut . . . . .	523,412	0.2	376,313	0.3	147,099	0.1
Flounders . . . . .	40,884,714	15.5	31,440,722	23.9	9,443,992	7.2
Turbot . . . . .	1,112,004	0.4	127,205	0.1	984,799	0.8
Redfish . . . . .	46,271,969	17.5	17,856,107	13.6	28,415,862	21.5
Wolfish . . . . .	987,839	0.4	804,185	0.6	183,654	0.1
Monkfish . . . . .	520	Ø	495	Ø	25	Ø
Swordfish . . . . .	996,618	0.4	172,207	0.1	824,411	0.6
Tuna . . . . .	57,326	Ø	10,268	Ø	47,058	Ø
Herring . . . . .	95,110,190	36.0	27,465,300	20.8	67,644,890	51.2
Shark . . . . .	2,924	Ø	–	–	2,924	Ø
Scallop . . . . .	952,388	0.4	–	–	952,388	0.7
Crab . . . . .	2,098,034	0.8	468,478	0.4	1,629,556	1.2
Shrimp . . . . .	133,161	0.1	–	–	133,161	0.1
Squid . . . . .	6,630	Ø	6,630	Ø	–	–
Unclassified . . . . .	7,617,685	2.9	5,655,928	4.3	1,961,757	1.5
Livers and roe . . . . .	21,512	Ø	–	–	21,512	Ø
<b>Total landings . . . . .</b>	<b>263,941,738</b>	<b>100.0</b>	<b>131,752,544</b>	<b>100.0</b>	<b>132,189,194</b>	<b>100.0</b>

Ø Less than one-half of 0.1%.

In terms of landed value, cod accounted for 26.2 per cent of the total for the unprofitable group of vessels, flounders for 25.4 per cent, haddock for 23.6 per cent, and redfish for 11.1 per cent. For the profitable

group, herring accounted for 14.5 per cent of total landed value, cod for 15.0 per cent, haddock for 7.2 per cent, redfish for 18.0 per cent, flounders for 9.1 per cent, scallops for 19.3 per cent and swordfish for 9.9 per cent (Table 6).

**Table 6 – Total Value of Landings, by Species,  
for 103 Fishing Enterprises, 1968  
Atlantic Provinces**

Item	All Enterprises		Unprofitable Enterprises		Profitable Enterprises	
Number of vessels	103		40		63	
<b>Species</b>	\$	%	\$	%	\$	%
Cod . . . . .	1,903,600	20.9	1,255,772	26.2	647,828	15.0
Haddock . . . . .	1,442,206	15.8	1,129,538	23.6	312,668	7.2
Pollock . . . . .	157,024	1.7	125,628	2.6	31,396	0.7
Hake . . . . .	18,456	0.2	13,390	0.3	5,066	0.1
Cusk . . . . .	6,373	0.1	4,830	0.1	1,543	0
Halibut . . . . .	144,806	1.6	82,644	1.7	62,162	1.4
Flounders . . . . .	1,611,888	17.7	1,217,076	25.4	394,812	9.1
Turbot . . . . .	27,548	0.3	3,053	0.1	24,495	0.6
Redfish . . . . .	1,310,415	14.4	530,404	11.1	780,011	18.0
Wolfish . . . . .	32,875	0.3	26,138	0.5	6,737	0.2
Monkfish . . . . .	10	0	10	0	0	0
Swordfish . . . . .	512,323	5.6	85,620	1.8	426,703	9.9
Tuna . . . . .	6,669	0.1	978	0	5,691	0.1
Herring . . . . .	886,171	9.7	256,899	5.4	629,272	14.5
Shark . . . . .	205	0	—	—	205	0
Scallop . . . . .	836,212	9.2	—	—	836,212	19.3
Crab . . . . .	187,936	2.0	41,330	0.9	146,606	3.4
Shrimp . . . . .	15,979	0.2	—	—	15,979	0.4
Squid . . . . .	332	0	332	0	—	—
Unclassified . . . . .	18,764	0.2	14,932	0.3	3,832	0.1
Livers and roe . . . . .	186	0	—	—	186	0
<b>Total value of landings . . . . .</b>	<b>9,119,978</b>	<b>100.0</b>	<b>4,788,574</b>	<b>100.0</b>	<b>4,331,404</b>	<b>100.0</b>

0 Less than one-half of the unit used.

The unprofitable enterprises received an average price of 3.63 cents per pound as compared with 3.28 cents per pound for the profitable group. The average price for the profitable group was depressed by landing a large quantity of herring which averaged 0.93 cents per pound (Table 7).

The profitable group of fishing enterprises obtained 41.5 per cent of their total landings in the Gulf of St. Lawrence, 19.8 per cent on Central and Western Nova Scotia banks, 4.3 per cent on Cape Breton and Eastern Nova Scotia banks, and 19.3 per cent off the South Coast of Newfoundland. However, for 10.9 per cent of total landings, the grounds fished were not recorded. The unprofitable group of vessels obtained 22.9 per cent of their total landings on the Grand Bank, 18.6 per cent in the Gulf of St. Lawrence, 19.5 per cent on Central and Western Nova Scotia banks, 11.5 per cent on Cape Breton and Eastern Nova Scotia banks and 6.9 per cent on Georges Bank (Table 8).

Data in Table 9 summarize fishing effort and output indices for the profitable and unprofitable enterprises.

**Table 7 – Average Prices Received by 103 Fishing Enterprises, 1968  
Atlantic Provinces**

Item	All Enterprises	Unprofitable Enterprises	Profitable Enterprises
Number of vessels	103	40	63
<b>Species</b>		cents per pound	
Cod . . . . .	4.57	4.60	4.51
Haddock . . . . .	7.44	7.44	7.45
Pollock . . . . .	3.03	2.99	3.25
Hake . . . . .	2.53	2.58	2.41
Cusk . . . . .	2.58	2.46	3.01
Halibut . . . . .	27.67	21.96	42.26
Flounders . . . . .	3.94	3.87	4.18
Turbot . . . . .	2.48	2.40	2.49
Redfish . . . . .	2.83	2.97	2.74
Wolfish . . . . .	3.33	3.25	3.67
Monkfish . . . . .	2.00	2.00	2.00
Swordfish . . . . .	51.41	49.72	51.76
Tuna . . . . .	11.63	9.52	12.09
Herring . . . . .	0.93	0.94	0.93
Shark . . . . .	7.04	–	7.04
Scallop <sup>1</sup> . . . . .	87.80	–	87.80
Crab <sup>2</sup> . . . . .	8.96	8.82	9.00
Shrimp . . . . .	12.00	–	12.00
Squid . . . . .	5.00	5.00	–
Unclassified . . . . .	0.25	0.26	0.20
Livers and roe . . . . .	0.86	–	0.86
<b>All species . . . . .</b>	<b>3.46</b>	<b>3.63</b>	<b>3.28</b>

<sup>1</sup>Shucked.

<sup>2</sup>In the shell.

**Table 8 – Contribution to Total Landings by Grounds Fished  
for 103 Fishing Enterprises, 1968  
Atlantic Provinces**

Item	All Enterprises		Unprofitable Enterprises		Profitable Enterprises	
	lb.	%	lb.	%	lb.	%
Number of vessels	103		40		63	
<b>Banks fished</b>						
Cape Breton and Eastern Nova Scotia <sup>1</sup> . . . . .	20,790,372	7.9	15,152,492	11.5	5,637,880	4.3
Central and Western Nova Scotia <sup>2</sup> . . . . .	51,895,689	19.7	25,726,487	19.5	26,169,202	19.8
Bay of Fundy . . . . .	4,284,162	1.6	2,566,597	1.9	1,717,565	1.3
Gulf of St. Lawrence . . . . .	79,329,487	30.0	24,452,326	18.6	54,877,161	41.5
Off Twillingate . . . . .	1,313,847	0.5	351,673	0.3	962,174	0.7
Grand Bank . . . . .	30,883,231	11.7	30,227,529	22.9	655,702	0.5
South Coast of Newfoundland <sup>3</sup> . . . . .	39,990,408	15.2	14,488,528	11.0	25,501,880	19.3
Georges Bank . . . . .	11,262,080	4.3	9,041,841	6.9	2,220,239	1.7
Nantucket Shoals and Lightship Grounds . . . . .	59,417	Ø	—	—	59,417	Ø
Not recorded . . . . .	24,133,045	9.1	9,745,071	7.4	14,387,974	10.9
<b>Total . . . . .</b>	<b>263,941,738</b>	<b>100.0</b>	<b>131,752,544</b>	<b>100.0</b>	<b>132,189,194</b>	<b>100.0</b>

<sup>1</sup>Includes the following fishing banks: Northeast Cape Breton, Misaine Bank, Banquereau, Middle Ground, Sable Island Bank, Horseshoe Ground and Eastern Nova Scotia.

<sup>2</sup>Emerald Bank, Central Nova Scotia, E. Browns and La Have, Southern Nova Scotia, Western Browns and Western Nova Scotia.

<sup>3</sup>St. Pierre Bank, Green Banks and Burgeo Bank.

Ø Less than one-half of 0.1 %.

**Table 9 – Relationship Between Input and Output for 103 Fishing Enterprises, 1968  
Atlantic Provinces**

Item	All Enterprises	Unprofitable Enterprises	Profitable Enterprises
Number of vessels	103	40	63
<b>Average per vessel<sup>1</sup></b>			
Trips . . . . .	31	28	33
Days at sea . . . . .	161	189	142
Hours of fishing . . . . .	1,796	2,015	1,648
Landings per hour of fishing lb. . . . .	1,309	1,544	1,114
Landed value per hour of fishing \$ . . . . .	51.31	60.81	43.42

<sup>1</sup>Average trips per vessel is based on 40 vessels for the unprofitable group and 61 vessels in the profitable group. For the remaining measures the averages are based on 38 vessels in the unprofitable group and 58 in the profitable group.

The average landings per hour of fishing for the profitable group were 1,114 pounds valued at \$43.42 and for the unprofitable group 1,544 pounds valued at \$60.81. These indices may have been distorted since a number of enterprises did not record their fishing effort (see footnote to Table 9). Also, the vessels in the unprofitable group were larger and with greater fishing power. Forty-eight per cent of the vessels in the unprofitable group were vessels over 100 feet in length, and in the profitable group 56 per cent of the vessels were between 38 and 65 feet in length, 36 per cent between 67 and 96 feet in length and eight per cent over 100 feet in length. Also, as has been shown (Table 4) the average investment per vessel and per man was much greater for the unprofitable group. This together with higher operating costs, as will be shown later, resulted in heavy operating losses on these vessels. This indicates that output alone, unrelated to costs, is not adequate to show the economic efficiency of a particular fishing enterprise.

#### IV. Costs and Earnings

The total profit/loss position of 103 fishing enterprises is shown in Table 10. The data show that the gross receipts were \$9,139,639. Fish sales accounted for 99.8 per cent of the gross revenue, and other fishery receipts such as co-operative dividends and other earnings accounted for the balance of 0.2 per cent of total income.

The total cash expenditures (excluding net crew earnings) amounted to \$4,642,824 or 50.8 per cent of gross receipts. The net crew earnings (including commissions and additional wages) were \$3,883,836 or 42.5 per cent of the gross revenue.

Depreciation charges were \$1,080,796 or 11.8 per cent of gross receipts. Thus, the total operating costs of 103 fishing enterprises in 1968 amounted to \$9,607,456 leaving a net deficit of \$467,817 or a loss of 5.1 per cent per dollar of gross revenue.

Of the 103 fishing enterprises included in this analysis 63 showed a profit on their 1968 operations, and 40 showed a loss. The profitable enterprises had a total profit of \$439,528 and the unprofitable group a total loss of \$907,345. The loss for the unprofitable group is due in the main to the high cost of operating large trawlers. For the unprofitable group of vessels the total cash expenditures amounted to 62.9 per cent of the gross receipts as compared with 37.4 per cent for the profitable group (Table 10). The unprofitable group returned 41.8 per cent of gross receipts to the crews as compared with 43.3 per cent for the profitable group. However, the manning of the larger vessels, such as trawlers, requires qualified and experienced specialized crew members. For this reason the earnings of the specialized crew members in the form of commissions and extra wages accounted for 14.6 per cent of the gross receipts for the unprofitable group and 5.4 per cent for the profitable group of enterprises (Table 10).

High cash operating expenditures in relationship to the average price received for the landed product were the principal reasons for the losses sustained by the unprofitable group (Table 11).

Data in Table 11 show that the average total cash expenditures (2.29 cents) and the net cash crew remuneration (1.52 cents) per pound of fish landed was highest for the unprofitable group of vessels. The total cost per pound of fish landed was 4.33 cents for the unprofitable group and 2.95 cents for the profitable group. When these costs are related to average price received, the unprofitable group showed an average loss margin of 0.70 cents, per pound of fish landed and sold. The profitable group showed a profit margin of 0.33 cents per pound of fish. The lower average price received per pound landed and sold for the profitable group was influenced by landing a large proportion of herring, 51.2 per cent of total landings, for an average price of 0.93 cents per lb. The cost-price relationship for various fisheries are dealt with in detail under provincial sections of this report.

Differences in profitability occurred from area to area and from one class of vessel to the next. The distribution of the number of profitable and unprofitable enterprises by province is shown in Table 12.

**Table 10 – Distribution of Total Gross Receipts  
for 103 Fishing Enterprises, 1968  
Atlantic Provinces**

Item	All Enterprises		Unprofitable Enterprises		Profitable Enterprises	
	103		40		63	
Number of vessels						
<b>RECEIPTS</b>	\$	%	\$	%	\$	%
fish sales . . . . .	9,119,978	99.8	4,788,574	99.9	4,331,404	99.7
other fishery receipts . . . . .	19,661	0.2	6,526	0.1	13,135	0.3
<b>Total Receipts . . . . .</b>	<b>9,139,639</b>	<b>100.0</b>	<b>4,795,100</b>	<b>100.0</b>	<b>4,344,539</b>	<b>100.0</b>
<b>EXPENDITURES</b>						
<b>Maintenance and Repairs</b>						
hull . . . . .	421,063	4.6	293,189	6.1	127,874	3.0
engine . . . . .	326,511	3.6	199,426	4.2	127,085	2.9
gurdies or winches . . . . .	55,516	0.6	20,780	0.4	34,736	0.8
catching gear . . . . .	787,363	8.6	543,899	11.4	243,464	5.6
electronic equipment . . . . .	66,103	0.7	39,426	0.8	26,677	0.6
power skiff . . . . .	2,095	Ø	1,633	Ø	462	Ø
<b>Sub-total . . . . .</b>	<b>1,658,651</b>	<b>18.1</b>	<b>1,098,353</b>	<b>22.9</b>	<b>560,298</b>	<b>12.9</b>
<b>Other Operating Expenses</b>						
fuel, oil, grease . . . . .	949,726	10.4	616,941	12.9	332,785	7.7
bait . . . . .	73,003	0.8	20,282	0.4	52,721	1.2
ice . . . . .	191,069	2.1	115,637	2.4	75,432	1.7
provisions . . . . .	362,356	4.0	220,837	4.6	141,519	3.2
wages (casual labour) . . . . .	165,361	1.8	117,164	2.5	48,197	1.1
wharfage . . . . .	5,320	0.1	1,461	Ø	3,859	0.1
carrier charges . . . . .	40,581	0.4	11,600	0.2	28,981	0.7
miscellaneous . . . . .	102,599	1.1	54,685	1.2	47,914	1.1
<b>Sub-total . . . . .</b>	<b>1,890,015</b>	<b>20.7</b>	<b>1,158,607</b>	<b>24.2</b>	<b>731,408</b>	<b>16.8</b>
<b>Fixed Charges</b>						
marine insurance . . . . .	597,121	6.6	407,324	8.5	189,797	4.4
crew insurance . . . . .	65,075	0.7	35,184	0.7	29,891	0.7
workmen's compensation . . . . .	30,455	0.3	29,254	0.6	1,201	Ø
rentals . . . . .	112,040	1.2	70,426	1.5	41,614	0.9
interest . . . . .	282,178	3.1	213,427	4.4	68,751	1.6
municipal tax . . . . .	568	Ø	—	—	568	Ø
other . . . . .	6,721	0.1	4,316	0.1	2,405	0.1
<b>Sub-total . . . . .</b>	<b>1,094,158</b>	<b>12.0</b>	<b>759,931</b>	<b>15.8</b>	<b>334,227</b>	<b>7.7</b>
<b>Total Cash Expenditures . . . . .</b>	<b>4,642,824</b>	<b>50.8</b>	<b>3,016,891</b>	<b>62.9</b>	<b>1,625,933</b>	<b>37.4</b>
<b>Net Cash Returns to Labour and to Capital . . . . .</b>	<b>4,496,815</b>	<b>49.2</b>	<b>1,778,209</b>	<b>37.1</b>	<b>2,718,606</b>	<b>62.6</b>
<b>Distributed as:</b>						
(1) Net Crew Earnings						
(a) commissions and wages . . . . .	931,981	10.2	697,734	14.6	234,247	5.4
(b) net cash crew share . . . . .	2,951,855	32.3	1,305,674	27.2	1,646,181	37.9
<b>Sub-total . . . . .</b>	<b>3,883,836</b>	<b>42.5</b>	<b>2,003,408</b>	<b>41.8</b>	<b>1,880,428</b>	<b>43.3</b>
(2) Net Cash Boat Share . . . . .	612,979	6.7	-225,199	-4.7	838,178	19.3
Less Depreciation . . . . .	1,080,796	11.8	682,146	14.2	398,650	9.2
<b>Net Earnings of Boat . . . . .</b>	<b>-467,817</b>	<b>-5.1</b>	<b>-907,345</b>	<b>-18.9</b>	<b>439,528</b>	<b>10.1</b>

For footnotes refer to Table 15 Part II of this report.

**Table 11 – Average Costs of Production  
for 103 Fishing Enterprises, 1968  
Atlantic Provinces**

Item	All Enterprises	Unprofitable Enterprises	Profitable Enterprises
Number of vessels	103	40	63
<b>Cost per Pound</b>	cents	cents	cents
Total cash expenditures . . . . .	1.76	2.29	1.23
Net crew remuneration . . . . .	1.47	1.52	1.42
Total costs <sup>1</sup> . . . . .	3.64	4.33	2.95
Price received . . . . .	3.46	3.63	3.28
Profit or loss . . . . .	-0.18	-0.70	0.33

<sup>1</sup>Total costs include items as shown in Table 10.

**Table 12 – Distribution of Profitable and Unprofitable  
Enterprises, 1968  
Atlantic Provinces**

Province	All Enterprises	Unprofitable Enterprises	Profitable Enterprises
	no.	no.	no.
Newfoundland . . . . .	12	7	5
Nova Scotia . . . . .	37	19	18
New Brunswick . . . . .	13	3	10
Prince Edward Island . . . . .	11	8	3
Quebec . . . . .	30	3	27
<b>Total . . . . .</b>	<b>103</b>	<b>40</b>	<b>63</b>

Greater variation exists in the average profitability by type, size of vessel and the areas in which these operate (Table 13). Factors affecting the profitability of the various vessels have been dealt with in detail in previous volumes of this series. Also further analysis in this regard is contained in the provincial sections of this report.

The data in Table 13 show that of the total vessels studied in Newfoundland, the 38-foot longliners were profitable and the stern steel trawlers were unprofitable to operate in 1968. In the other provinces the ranges in profit per enterprise show that there were losses as well as profits. However, on balance the smaller vessels and those with specialization in swordfishing, scalloping, and herring seiners were profitable. The wooden, steel stern and side trawlers, on the whole, were unprofitable to operate in 1968.

## V. Returns to Capital

As in previous years, for the 1968 sample of 103 fishing enterprises included in this study, the return on capital is measured by these methods:

- (i) Return on net worth; i.e. profitability to the owners on their equity.
- (ii) Return on total assets, regardless of the source from which these were obtained; i.e. profitability of the enterprise.
- (iii) Profit and interest on borrowed capital, paid by or charged to the enterprise as a return on total assets.

**Table 13 – Distribution of Profitable and Unprofitable  
Enterprises by Type and Size of Vessels, 1968  
Atlantic Provinces**

Area and Type of Vessel	Average LOA	Boats in Sample	Enterprises		Profit per Enterprise		
			Unprof- itable	Prof- itable	Average	Lowest	Highest
<b>NEWFOUNDLAND</b>	ft.	no.	no.	no.	\$	\$	\$
Wooden longliners . . . . .	38	5	—	5	851	177	1,485
Steel stern trawlers . . . . .	148	7	7	—	-80,683	-119,307	-49,192
<b>NOVA SCOTIA</b>							
<b>Wooden Vessels</b>							
Crabbers . . . . .	50	2	2	—	-1,847	(1)	(1)
Stern draggers . . . . .	56	4	2	2	6,363	-3,308	23,944
Scallop draggers . . . . .	96	4	—	4	18,805	6,311	37,640
Herring seiners . . . . .	67	3	1	2	643	(1)	(1)
Herring seiners . . . . .	103	3	1	2	-3,349	(1)	(1)
Scottish seiners . . . . .	70	3	1	2	1,867	(1)	(1)
Longliners . . . . .	88	4	1	3	11,626	-4,945	18,809
Side trawlers . . . . .	110	3	3	—	-12,036	(1)	(1)
<b>Steel Vessels</b>							
Side trawlers . . . . .	120	4	2	2	-6,752	-31,390	18,003
Side trawlers . . . . .	141	3	3	—	-9,043	(1)	(1)
Stern trawlers . . . . .	154	4	3	1	-18,830	-42,725	16,478
<b>NEW BRUNSWICK</b>							
<b>Wooden Vessels</b>							
Crabbers . . . . .	49	3	—	3	2,780	(1)	(1)
Crabbers . . . . .	60	2	—	2	1,910	(1)	(1)
Side draggers . . . . .	72	2	—	2	11,098	(1)	(1)
Side draggers . . . . .	86	6	3	3	-2,559	-17,000	5,067
<b>PRINCE EDWARD ISLAND</b>							
<b>Wooden Vessels</b>							
Side draggers . . . . .	60	2	—	2	1,167	(1)	(1)
Side draggers . . . . .	65	5	4	1	-855	-2,521	2,703
Steel side draggers . . . . .	93	4	4	—	-8,385	-13,397	-5,059
<b>QUEBEC</b>							
<b>Wooden Vessels</b>							
Side draggers . . . . .	60	15	1	14	3,852	-58	9,420
Side draggers . . . . .	65	7	1	6	4,608	-2,151	10,642
Side draggers . . . . .	87	2	—	2	11,335	(1)	(1)
<b>Steel Vessels</b>							
Side draggers . . . . .	82	4	—	4	3,147	1,647	4,636
Herring seiners . . . . .	89	2	1	1	4,249	(1)	(1)

(1) Only three boats or less in these groups; therefore ranges are omitted.

As a further refinement in the analysis, the 103 fishing enterprises were classified into two groups; profitable and unprofitable. As already indicated 63 or 61 per cent of the 103 enterprises reported a profit in 1968 and 40 or 39 per cent reported a loss on their operations.

For the year 1968, the rate of return (before income taxes) for all of the 103 enterprises was negative; -1.71 per cent on total assets and -5.59 per cent on private net worth (Table 14). The 63 profitable enterprises showed a much more favourable result; a return of 4.75 per cent on total assets and 16.15 per cent on private net worth. The negative rates of return on assets and on net worth for the 40 unprofitable enterprises indicate that these were in real financial difficulties in 1968. Profit and interest paid or charged to the fishing enterprises showed a loss of 0.68 per cent on total assets for the 103 enterprises; a loss of 3.82 per cent for the 40 unprofitable enterprises, and a return of 5.49 per cent for the 63 profitable enterprises.

**Table 14 – Return on Investment Before Taxes for 103 Fishing Enterprises, 1968  
Atlantic Provinces**

Investment	103	Rate	40	Rate	63	Rate
	Enterprises	of	Unprofitable	of	Profitable	of
		Return	Enterprises	Return	Enterprises	Return
	\$	%	\$	%	\$	%
Total assets . . . . .	27,407,090	-1.71	18,151,778	-5.00	9,255,312	4.75
Private net worth <sup>1</sup> . . . . .	8,370,094	-5.59	5,647,735	-16.07	2,722,359	16.15
Government subsidy . . . . .	11,688,271		8,336,780		3,351,491	
Total government subsidy and private net worth. . . . .	20,058,365	-2.33	13,984,515	-6.49	6,073,850	7.24
Profit before taxes . . . . .	-467,817		-907,345		439,528	
Interest . . . . .	282,178		213,427		68,751	
Profit and interest . . . . .	-185,639		-693,918		508,279	
(P + I) on total assets . . . . .		-0.68		-3.82		5.49

<sup>1</sup>Private net worth – Cash down by fishermen plus FLB and other loans, minus debt as of December 31, 1968.

The sample was also classified by area, viz: (i) Gulf of St. Lawrence and (ii) other areas outside the Gulf. Vessels operating out of North Shore ports of New Brunswick, Prince Edward Island and Quebec were included in the Gulf group and all other vessels operating out of Nova Scotia and Newfoundland ports were included in the second group. The return on investment for these two groups is shown in Table 15. The data show that the Gulf group recorded positive returns and the other areas group recorded negative returns. A reduction in returns for the outside Gulf group was caused by losses sustained by steel stern and side trawlers in Newfoundland and in Nova Scotia.

**Table 15 – Return on Investment Before Taxes  
Gulf of St. Lawrence and Outside Fisheries, 1968  
Atlantic Provinces**

Investment	56 Fishing	Rate	47 Fishing	Rate
	Enterprises	of	Enterprises	of
	Gulf of	Return	Other	Return
	St. Lawrence		Areas	
	\$	%	\$	%
Total assets . . . . .	7,597,633	1.50	19,809,457	-2.94
Private net worth . . . . .	1,283,188	8.85	7,086,906	-8.20
Government subsidy . . . . .	2,696,040		8,992,231	
Total government subsidy and private net worth . . . . .	3,979,228	2.86	16,079,137	-3.62
Profit before taxes . . . . .	113,613		-581,430	
Profit and interest . . . . .	171,756		-357,395	
(P + I) on total assets . . . . .		2.26		-1.80

So far, the returns discussed do not reveal the wide disparity in the rates of return by type, size of vessel, and area. This is shown in Table 16 which reveals that some groups of vessels have rates of return comparable to or above the market rate and others recorded negative rates of return.

**Table 16 – Return on Investment Before Taxes, by Area and Type of Vessel,  
for 103 Fishing Enterprises, 1968  
Atlantic Provinces**

Area and Type of Vessel	Average LOA	Average Rate of Return on				Profit and Interest on Total Assets
		Boats in Sample	Total Assets	Private Net Worth	Government Subsidy & Private Net Worth	
	ft.	no.	%	%	%	%
<b>NEWFOUNDLAND</b>						
Wooden longliners . . . . .	38	5	6.36	15.58	7.35	6.80
Steel stern trawlers . . . . .	148	7	- 7.28	-19.79	- 8.49	- 6.15
<b>NOVA SCOTIA</b>						
Wooden vessels						
Crabbers . . . . .	50	2	- 5.82	- 9.34	- 7.20	- 4.93
Stern draggers . . . . .	56	4	11.44	22.07	15.59	12.51
Scallop draggers . . . . .	96	4	11.23	22.40	13.16	11.97
Herring seiners . . . . .	67	3	0.41	1.86	0.88	3.41
Herring seiners . . . . .	103	3	- 0.82	- 3.13	- 1.26	1.01
Scottish seiners . . . . .	70	3	1.95	5.74	3.21	3.78
Longliners . . . . .	88	4	7.27	20.24	10.44	8.55
Side trawlers . . . . .	110	3	- 4.06	-10.93	- 5.54	- 3.04
Steel vessels						
Side trawlers . . . . .	120	4	- 1.23	- 3.09	- 1.39	- 0.68
Side trawlers . . . . .	141	3	- 1.59	- 4.49	- 1.87	- 0.64
Stern trawlers . . . . .	154	4	- 2.05	- 6.31	- 2.56	- 0.92
<b>NEW BRUNSWICK</b>						
Wooden vessels						
Crabbers . . . . .	49	3	5.87	14.68	10.06	7.26
Crabbers . . . . .	60	2	3.04	10.46	6.78	4.72
Side draggers . . . . .	72	2	7.05	134.33	16.72	8.05
Side draggers . . . . .	86	6	- 1.30	-19.99	- 3.00	0.27
<b>PRINCE EDWARD ISLAND</b>						
Wooden vessels						
Side draggers . . . . .	60	2	2.11	2.49	2.11	2.90
Side draggers . . . . .	65	5	- 1.19	- 3.54	- 2.36	0.52
Steel side draggers . . . . .	93	4	- 2.38	-28.06	- 4.22	- 0.65
<b>QUEBEC</b>						
Wooden vessels						
Side draggers . . . . .	60	15	5.30	23.04	11.66	5.30
Side draggers . . . . .	65	7	4.91	17.13	10.10	4.91
Side draggers . . . . .	87	2	5.32	59.14	11.00	5.44
Steel vessels						
Side draggers . . . . .	82	4	1.29	7.30	2.11	1.29
Herring seiners . . . . .	89	2	1.14	11.60	1.92	1.14

In Newfoundland very favourable average rates of return on investment were recorded by 38-foot longliners, but the steel stern trawlers recorded negative rates of return.

All four classes of trawlers in Nova Scotia showed negative rates of return in 1968. Very favourable average rates of return on investment were recorded by 88-foot wooden longliners, 96-foot scallop draggers and 56-foot stern draggers.

The 1968 average rates of return on investment, for New Brunswick North Shore vessels (with the exception of 86-foot draggers) and Quebec vessels, were positive. In Prince Edward Island average rates of return for the 60-foot draggers was positive and for the 65-footers and 93-footers the rates of return were negative.

Although it is difficult to measure statistically, part of the differences in the rates of return on investment between groups of vessels (and between individual vessels in the same group), and areas, can be ascribed to the differences in management abilities of operators.

## **VI. Returns to Labour**

Average net crew earnings for the various crew categories by area, size and type of vessel are compared in Table 17. As has been pointed out in previous reports of this series, the level of earnings of the crews is affected by the lay arrangement, quantity of fish caught and landed, species-mix, prices received, size of crew and crew expenses, and the efficiency of the crew and management. Of the factors mentioned some have more influence than others.

A longer season and landings of higher-priced species or landing large quantities of lower-priced species such as herring have a bearing on labour value productivity with consequent higher average net crew earnings for vessels operating out of ports located outside the Gulf of St. Lawrence, or larger vessels such as herring purse seiners operating in the Gulf from about the middle of May to the latter part of October or early November. From November to about the end of April they fish the grounds off Newfoundland South Coast. As can be seen from Table 17, the average deckhand take-home pay in Nova Scotia for 88-foot swordfishing longliners was \$6,432, for 103-foot herring purse seiners it was \$8,322, and for 96-foot scallop draggers it was \$6,186. Deckhands on other vessels recorded somewhat lower average take-home pay. Further detailed examination of the crew earnings may be found in the provincial sections of this report.

A further comparison is made for the average net earnings of the deckhands working on vessels in the Gulf of St. Lawrence and those operating outside the Gulf. These comparisons are made in Table 18.

As indicated in Table 18, the average net cash crew share for deckhands, was \$3,404 for those fishing in the Gulf of St. Lawrence and \$4,275 for the outside-the-Gulf vessels. Average investment per man was \$29,448 for the Gulf vessels and \$40,844 for the outside-the-Gulf vessels. The Gulf vessels recorded 147 days at sea per man with an average landing of 357,005 lb. valued at \$9,628 per man engaged. These figures for the outside-the-Gulf were 223 days, 354,298 lb., \$13,682 per man respectively.

Apart from the higher average return to deckhands for the outside-the-Gulf vessels, the specialized crew members also have greater and more diversified returns (Table 17). This is due partly to the larger vessels which are being used in the fisheries outside the Gulf and partly to the greater variety and value of the species caught, particularly by the Nova Scotia vessels. A longer fishing season for boats outside-the-Gulf is another factor contributing to higher average returns to the crews.

## **VII. Financial Obligations of Owners of Fishing Enterprises**

As has been pointed out previously, a modern primary fishing enterprise involves considerable capital outlay with a requirement for a high degree of management ability in order to make it a profitable undertaking.

Table 17 – Comparison of Average Net Earnings by Crew Members, 1968  
Atlantic Provinces

Area and Type of Vessel	Size of Boat LOA	Men in Crew	Average Net Earnings by														
			Captain	Mate		Boat- swain	Engineer		Cook	Checker	Fish-hold (Icer)			Third Hand	Deck- hand	Deck- hand	
				1st	2nd		1st	2nd			1st	2nd	3rd				
	ft.	no.	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
<b>NEWFOUNDLAND</b>																	
Wooden longliners . . . . .	38	3	1,317														1,317
Steel stern trawlers . . . . .	148	15	17,322	8,333		5,643	8,237	5,748	5,652			4,887	4,741				4,628
<b>NOVA SCOTIA</b>																	
Wooden Vessels																	
Crabbers . . . . .	50	2	2,931														2,544
Stern draggers . . . . .	56	3	5,122														4,389
Scallop draggers . . . . .	96	15	15,607	8,337			6,775	6,286	6,767								6,186
Herring seiners . . . . .	67	6	5,378	3,878			3,878										3,878 <sup>2</sup>
Herring seiners . . . . .	103	8	16,520	9,605			9,843	8,890	9,326						8,456 <sup>1</sup>		8,322 <sup>2</sup>
Scottish seiners . . . . .	70	6	3,380	3,015			2,842		2,978								2,829
Longliners . . . . .	88	8	11,256	7,370			6,905		6,778								6,432
Side trawlers . . . . .	110	10	9,474	6,020		4,104	6,338	4,698	4,886	3,670		3,634	3,570				3,557
Steel Vessels																	
Side trawlers . . . . .	120	14	11,727	7,453		4,429	7,185	5,330	4,834			4,119	4,064	3,858	3,937		3,811 <sup>2</sup>
Side trawlers . . . . .	141	16	12,575	6,692		4,282	6,468	5,025	4,978			3,912	3,890				3,633 <sup>2</sup>
Stern trawlers . . . . .	154	17	17,474	9,416	5,418	5,947	7,808	6,481	6,349			5,594	5,276		5,235		4,982
<b>NEW BRUNSWICK</b>																	
Wooden Vessels																	
Crabbers . . . . .	49	3	3,593														3,593
Crabbers . . . . .	60	4	2,489														2,489
Side draggers . . . . .	72	5	3,548				3,747		3,893			3,841					3,688
Side draggers . . . . .	86	6	3,991	3,589			3,486		3,450			3,320					3,290
<b>PRINCE EDWARD ISLAND</b>																	
Wooden Vessels																	
Side draggers . . . . .	60	4	1,740	1,065		929			1,046			968					882
Side draggers . . . . .	65	4	3,299	2,463		2,078	2,213		2,192			2,144					2,053
Steel side draggers . . . . .	93	9	9,468	5,920		4,749	5,238	4,464	4,312			4,081					3,578
<b>QUEBEC</b>																	
Wooden Vessels																	
Side draggers . . . . .	60	4	3,056														3,056
Side draggers . . . . .	65	4	4,418														3,764
Side draggers . . . . .	87	5	5,957														5,957
Steel Vessels																	
Side draggers . . . . .	82	5	5,698						4,179								3,629
Herring seiners . . . . .	89	8	9,906	6,439			6,934		5,944								4,953

<sup>1</sup>Deckhands participating in refit.  
<sup>2</sup>Deckhands not participating in refit.

**Table 18 — Average Net Earnings Per Man for  
Gulf of St. Lawrence and Outside Areas  
Fishing Enterprises, 1968  
Atlantic Provinces**

Item	Unit	Gulf of St. Lawrence	Outside Gulf of St. Lawrence
Total Men Fishing	no.	258	485
Total assets per man . . . . .	\$	29,448	40,844
Days at sea per man <sup>1</sup> . . . . .	no.	147	223
Landings per man . . . . .	lb.	357,005	354,298
Landed value per man . . . . .	\$	9,628	13,682
Net crew share per man <sup>2</sup> . . . . .	\$	3,404	4,275

<sup>1</sup>Averages for days at sea per man are based on 235 men in the Gulf and on 467 men for outside Gulf.

<sup>2</sup>Deckhands.

Decisions must be made by owners in respect to new capital expenditures for the improvement of their vessels and gear, as well as the replacement of worn out or obsolete parts of the equipment. The owners must also repay loans advanced by Fishermen's Loan Boards and other agencies. A summary of capital expenditures and the change in the debt position for 103 enterprises in 1968 is shown in Table 19.

**Table 19 — Capital Expenditures and Debt Position  
for 103 Fishing Enterprises, 1968  
Atlantic Provinces**

Item	All Enterprises		Unprofitable Enterprises		Profitable Enterprises	
	103		40		63	
<b>Number of vessels</b>						
<b>Capital Expenditures</b>	\$	%	\$	%	\$	%
Hull . . . . .	24,257	26.1	10,944	37.8	13,313	20.9
Engine . . . . .	4,937	5.3	4,937	17.0	—	—
Electronic equipment . . . . .	23,114	24.9	6,107	21.1	17,007	26.6
Winch, gallows, gurdy . . . . .	578	0.6	578	2.0	—	—
Miscellaneous . . . . .	915	1.0	915	3.1	—	—
Fishing gear . . . . .	39,026	42.1	5,505	19.0	33,521	52.5
<b>Total Expenditures of which:</b> . . . . .	92,827	100.0	28,986	100.0	63,841	100.0
Paid cash . . . . .	73,819	79.5	16,304	56.2	57,515	90.1
On credit . . . . .	19,008	20.5	12,682	43.8	6,326	9.9
<b>Changes in Debt Position</b>						
<b>Principal Payments to:</b>						
Fishermen's Loan Boards . . . . .	532,503	80.4	211,059	73.1	321,444	85.9
Other creditors . . . . .	130,185	19.6	77,492	26.9	52,693	14.1
Total paid in 1968 . . . . .	662,688	100.0	288,551	100.0	374,137	100.0
New Debts in 1968 . . . . .	105,400	—	74,978	—	30,422	—
Net Changes in Debt Position <sup>1</sup> . . . . .	-557,288	—	-213,573	—	-343,715	—

<sup>1</sup>A minus indicates a reduction in the debt.

The data in this table show that new capital expenditures amounted to \$92,827 in 1968 for the 103 fishing enterprises. Of this, 79.5 per cent was paid in cash and 20.5 per cent was financed mainly through the Fishermen's Loan Boards. Although depreciation for the enterprises was calculated to be \$1,080,796 (Table 10), a great number of the owners had to resort to further loans to finance new capital expenditures. Also, in these respects, the financial capital position was more favourable for the profitable enterprises when compared with the unprofitable enterprises.

New debts in 1968 for the 103 fishing enterprises were \$105,400 which were less than the total repaid \$662,688 by \$557,288. The 63 profitable enterprises reduced their total debt by \$343,715 in 1968 and the unprofitable 40 enterprises by \$213,573.

## B. PROVINCIAL SECTIONS

### VIII. Newfoundland

#### 1. Coverage

This report contains brief operational and financial summaries of 12 fishing vessels operating out of Newfoundland ports during 1968. Records were obtained for samples of 38-foot longliners and steel stern trawlers ranging in length overall from 145 to 150 feet. The longliners are fishermen-owned and the trawlers are company-owned.

The fishing enterprises included in this report are grouped into two classes for analysis. Where information is available the 1968 results are compared with previous years.

#### 2. Description

Characteristics of the vessels studied are summarized in Table 1.

**Table 1 – Description of Newfoundland Vessels Studied, 1968**

Type of Vessel	Vessels in Sample	Design	Hull	Average per Vessel			
				Age	LOA	Gross Tonnage	Power
	no.			yrs.	ft.	tons	B.H.P.
Longliners . . . . .	5	Conventional	Wooden	2	38	15	62
Otter trawlers . . . . .	7	Stern	Steel	1	148	587	1,449

The fishermen-owned longliners were built in 1966 and in 1967 and ranged in total capital investment per vessel from \$13,123 to \$14,279. The steel stern trawlers were also built in 1966 and in 1967 and ranged in total capital investment per vessel from \$1,060,300 to \$1,115,687. All vessels included in the study were built with financial assistance in the form of federal construction grants. The longliners also received provincial construction grants and loans from the Fishermen's Loan Board.

The longliners were equipped with radio-telephones and depth sounders, with an average value of \$1,209 per vessel. During the 1968 season the longlining enterprises were equipped with gill-nets for fishing for turbot but also continued line fishing primarily for cod. The average investment in fishing gear per longliner was \$1,702.

The steel stern trawlers were equipped with a wider range and more sophisticated electronic equipment, with an average investment of \$31,779 per trawler. The average investment per trawler in otter trawler gear was \$22,837.

#### 3. Operational Performance

The 12 vessels included in the 1968 study were manned by 119 fishermen. The total landings by the 12 vessels were 41,346,479 lb. of fish with a landed value of \$1,482,378.

Ten species were landed, some in substantial quantities and others in small amounts. Out of the total landings, flounders and greysole accounted for 57.8 per cent in weight and 61.5 per cent in landed value; corresponding figures for cod were 28.4 per cent and 30.1 per cent. The remainder was made up of small quantities of haddock, pollock, hake, halibut, turbot, wolffish, redfish and livers. The trawlers also reported landing 2,720,501 lb. of rejected fish (various species) with a landed value of \$3,974. Fish is rejected for normal production in the plant, and may be used for fish meal production, for the following reasons:

- (1) Poor quality fish due to poor handling and icing and serious deterioration due to elapsed time since catching.
- (2) Uneconomic size – too small to be handled efficiently in the processing plant.
- (3) Some fish may be rejected because of low product yield. In part this may be for a variety of reasons such as “jellied flounder”, soft fish, or because of food which fish have been eating which can produce excessive off odours, e.g. “blackberry cod” or groundfish generally with excessive “feedy” odours. In these circumstances the weight is calculated from product yield and related to total trip landings for arriving at landed value.

The previous analysis of landings by species does not reveal the number of classifications used in buying fish and the price differentials for these. The details are shown in Table 2 for trawlers and Table 2(a) for longliners.

**Table 2 – Total Landings, Landed Values and Average Prices,  
by Species and Buying Classification for seven 148-foot  
Newfoundland Steel Stern Trawlers, 1968**

Species	lb.	\$	Price per lb. in cents
Cod – gutted head on . . . . .	8,893,957	347,382.68	3.91
Cod – gutted head on – large . . . . .	25,656	1,026.24	4.00
Cod – gutted head on – medium . . . . .	27,885	974.14	3.49
Cod – round . . . . .	2,423,823	83,460.53	3.44
Haddock – gutted head on . . . . .	449,576	22,795.14	5.07
Haddock – gutted head on – large . . . . .	51,800	3,002.14	5.80
Haddock – gutted head on – small . . . . .	39,604	1,798.12	4.54
Haddock – round . . . . .	193,296	6,705.53	3.47
Pollock – gutted head on . . . . .	35,768	933.86	2.61
Pollock – round . . . . .	1,450	29.00	2.00
Hake – gutted head on . . . . .	71,825	2,310.50	3.22
Turbot – round . . . . .	39,991	1,004.77	2.51
Halibut – gutted head off . . . . .	185,955	27,893.25	15.00
Greysole – round . . . . .	3,697,556	115,329.72	3.12
Flounders – gutted head on . . . . .	8,822,798	397,947.78	4.51
Flounders – round . . . . .	10,155,995	357,648.25	3.52
Flounders – round – yellowtails . . . . .	760,585	24,254.79	3.19
Flounders – gutted head on – yellowtails . . . . .	399,744	14,990.38	3.75
Redfish – round . . . . .	586,749	15,841.88	2.70
Redfish – round – large . . . . .	342,308	9,400.95	2.75
Wolffish – gutted head on . . . . .	457,483	13,724.49	3.00
Rejected fish . . . . .	2,720,501	3,973.52	0.15
<b>Totals . . . . .</b>	<b>40,384,305</b>	<b>1,452,427.66</b>	<b>3.60</b>

**Table 2(a) – Total Landings, Landed Values and Average Prices,  
by Species and Buying Classification for five  
38-foot Newfoundland Longliners, 1968**

Species	lb.	\$	Price per lb. in cents
Cod .....	364,906	13,516.87	3.70
Cod – saltbulk .....	7,900	328.01	4.15
Halibut .....	5	0.83	16.60
Turbot .....	477,835	14,335.05	3.00
Flounders .....	74,502	1,117.56	1.50
Wolffish .....	15,514	465.42	3.00
Livers .....	21,512	186.48	0.86
<b>Totals .....</b>	<b>962,174</b>	<b>29,950.22</b>	<b>3.11</b>

The buying classifications are not “official standards” and do vary from buyer to buyer or from port to port. The number of classifications used in 1968 in buying fish from seven stern trawlers studied were as follows:

**Number of Buying Classification in 1968**

Species	148-foot steel stern trawlers no.
Cod	4
Haddock	4
Pollock	2
Hake	1
Turbot	1
Halibut	1
Greysole	1
Flounders	4
Redfish	2
Wolffish	1

The longliners catch a smaller range of species (Table 2(a)) and cod, halibut and wolffish are usually sold in the gutted head-on form and flounders and turbot in the round. Also 2.1 per cent of the cod sales were in saltbulk form. Livers are sold as landed.

Of the total landings by 148-foot stern trawlers, 6.7 per cent were classified as ‘rejected fish’; the figure for rejected fish in 1967 was 8.1 per cent for the same class of trawlers. Further details of rejected fish in 1968 are shown in Table 3.

Data on landings, buying classifications, species-mix and quality have been reviewed, so that when comparisons are made in terms of output efficiency, these are reflected in value of output. With these qualifications, certain results of fishing activities such as average landings and landed values per vessel are detailed in Table 4. These are related to size of crew, number of trips, days at sea, days and hours fished.

The average 38-foot longliner made 63 one-day trips and had an average landing of 192,435 lb. of fish valued at \$5,990. The longliners operated in a relatively short season, the first sailing date was May 1st and last landing date October 21. The days at sea per vessel ranged from 52 to 72 days. In 1966 and 1967 these longliners fished part of the season off the Labrador coast. However, in 1968 no fishing was carried on off the Labrador coast. All of the catches were obtained on grounds located 10 to 12 miles off N.W. to N.E. of Long Point, Twillingate.

**Table 3 – Total Landings and Landed Values of Rejected Fish by Species, Newfoundland Trawlers, 1968**

**Seven 148-foot Steel Stern Trawlers**

Species	lb.	\$	Price per lb. in cents
Cod – gutted head on	329,629	471.53	0.14
Cod – round	134,191	–	–
Haddock – gutted head on	600	–	–
Haddock – round	19,568	56.17	0.29
Pollock	500	1.75	0.35
Hake – gutted head on	3,300	11.55	0.35
Halibut – gutted head off	210	–	–
Turbot – round	664	–	–
Flounders – gutted head on	308,794	1,074.87	0.35
Flounders – round	1,733,092	2,051.09	0.12
Flounders – round – yellowtails	85,600	184.46	0.22
Greysole – round	69,436	18.35	0.03
Wolfish – gutted head on	3,257	8.82	0.27
Wolfish – round	420	–	–
Redfish – gutted head on	3,008	10.30	0.34
Redfish – round	10,232	21.63	0.21
Unclassified	18,000	63.00	0.35
<b>Totals</b>	<b>2,720,501</b>	<b>3,973.52</b>	<b>0.15</b>

**Table 4 – Average Operational Performance of Newfoundland Vessels, 1968**

Type of Vessel	Averages per Vessel							
	LOA	Men in Crew	Trips	Days		Hours Fished	Landings	Landed Values
				at sea	fished			
	ft.	no.	no.	no.	no.	no.	lb.	\$
Longliners	38	3.0	63	63	63	484	192,435	5,990
Stern Trawlers	148	14.8	28	267	212	3,148	5,769,186	207,490

The average stern trawler made 28 trips in 267 days at sea and an average landing of 5,769,186 lb. of fish valued at \$207,490. The trawlers caught 71.9 per cent of their total landings on the Grand Bank and 15.7 per cent on the St. Pierre bank.

Further details of species-mix, landed values and average prices are given in Tables 10, 13 and 14 and for grounds fished in Table 30, in Part II.

The data just presented does not reveal the distribution of fishing effort and landings over the season. This information is presented in Tables 4(a) and 4(b) following:

**Table 4(a) – Total Fishing Effort and Landings of Fish by Months, for Five 38-foot Newfoundland Longliners, 1968**

Month	Boats	Trips	Days at Sea	Hours Actual Fishing			No. of Lines	No. of Nets	Total Landings
				Long-lining	Gill-netting	Total			
	no.	no.	no.	no.	no.	no.	no.	no.	lb.
May . . . .	4	12	12	84	–	84	553	–	31,325
June . . . .	5	75	75	559	–	559	4,085	–	184,648
July . . . .	5	92	92	735	–	735	6,092	–	285,169
Aug. . . . .	5	49	49	197	176	373	1,774	272	141,026
Sept. . . . .	5	70	70	–	553	553	–	1,058	257,937
Oct. . . . .	5	15	15	–	115	115	–	266	62,069
Totals . . .	–	313	313	1,575	844	2,419	12,504	1,596	962,174

The sample of longliners during the four-month period (June to September) accounted for 91.8 per cent of total hours fished and 90.3 per cent of total landings for the six-month season. Normally, the crews fish every day, except on Sundays, on stormy days or when the vessel has mechanical trouble.

Two crews produced some heavy salted saltbulk during September by retaining small amounts of cod, for salting, from several trips.

The stern trawlers, except for refit time or other mechanical trouble fish the year round (Table 4(b)).

**Table 4(b) – Total Fishing Effort and Landings of Fish by Months, for Seven 148-foot Newfoundland Stern Trawlers, 1968**

Month	Trawlers	Trips	Days		Hours Actual Fishing	Total Landings
			at Sea	Fished		
	no.	no.	no.	no.	no.	lb.
January . . . . .	6	13	113	87	1,217	2,703,845
February . . . . .	7	17	145	116	1,650	3,568,184
March . . . . .	7	19	168	133	1,971	4,137,968
April . . . . .	7	14	129	107	1,620	3,440,520
May . . . . .	6	16	159	129	1,932	3,615,331
June . . . . .	7	17	164	132	2,055	3,848,969
July . . . . .	7	18	182	144	2,144	3,583,332
August . . . . .	7	18	169	130	1,966	3,813,948
September . . . . .	6	16	165	138	2,080	3,124,739
October . . . . .	7	17	171	137	1,979	3,006,766
November . . . . .	7	16	148	113	1,616	2,784,492
December . . . . .	7	16	155	121	1,804	2,756,211
Totals . . . . .	–	197	1,868	1,487	22,034	40,384,305

In contrast to the longliners, the trawlers provide a year-round continuous supply of raw material for the plants.

The comparative operational efficiency of longliners and trawlers is illustrated by data in Table 5 following:

**Table 5 – Operational Efficiency of Newfoundland Vessels, 1968**

Type of Vessel	1968 Averages						
	LOA	Landings per			Landed Values per		
		Man <sup>1</sup>	Trip	Days at Sea <sup>2</sup>	Man	Trip	Days at Sea
	ft.	lb.	lb.	lb.	\$	\$	\$
Longliners . . . . .	38	64,575	3,074	3,074	1,997	95	95
Stern trawlers . . . . .	148	388,310	204,996	21,619	14,020	7,410	777

<sup>1</sup>Man per Season

<sup>2</sup>Per vessel

The average 38-foot longliner recorded an average landing of 64,575 lb. of fish valued at \$1,997 per man for the season. In this respect the results for the 148-foot stern trawlers were outstanding. The average landings on trawlers was 388,310 lb. of fish valued at \$14,020 per man. Capital intensity per man engaged on trawlers was a significant factor in increasing labour productivity.

The relative fishing power of the vessels studied is revealed by the data in Table 6.

**Table 6 – Average Rate of Output Newfoundland Vessels, 1968**

Type of Vessel	1968 Averages per Vessel					
	LOA	Men in Crew	Vessel Output per Hour of Fishing		Average Output per Man-day at Sea	
			lb.	\$	lb.	\$
	ft.	no.	lb.	\$	lb.	\$
Longliners . . . . .	38	3.0	397	12	1,027	32
Stern Trawlers . . . . .	148	14.8	1,832	66	1,456	52

For the 38-foot longliners the average vessel rate of output per hour of fishing was 397 lb. of fish and the rate of output per man-day at sea was 1,027 lb.

For the 148-foot stern trawlers the average vessel rate of output per hour of fishing (per hour's dragging) was 1,832 lb. of fish and the rate of output per man-day at sea was 1,456 lb. There are, of course, considerable variations in the rates of vessel output from day to day, trip to trip and from month to month. These are due to the species caught, abundance of stock and fishing grounds worked. Some indications of seasonal variation in the vessel output by the trawlers is shown by the following:

1968 Season	Average Trawler output per hour of fishing
	lb.
January	2,222
February	2,163
March	2,090
April	2,124
May	1,871
June	1,873
July	1,671
August	1,940
September	1,502
October	1,519
November	1,723
December	1,528

The average monthly vessel rate of output per hour of fishing ranged from 1,502 lb. in September to 2,222 lb. in January (also refer to Table 4(b)).

Trends in the performance of the vessels studied are detailed in Table 7.

**Table 7 – Performance of Newfoundland Vessels, 1966-1968**

Item	Averages per Vessel				
	38-foot longliners			148-foot stern trawlers	
	1966	1967	1968	1967	1968
Days at sea . . . . .	77	74	63	190	267
Days fished . . . . .	77	74	63	144	212
Hours fished . . . . .	(1)	616	484	2,137	3,148
Landings in lb. . . . .	168,456	171,995	192,435	4,976,179	5,769,186
Landed value in \$ . . . . .	6,300	6,088	5,990	173,564	207,490
Average price per lb. in cents . .	3.74	3.53	3.11	3.48	3.60

(1) Information not available.

In examining the performance of the 38-foot longliners for the three-year period (1966-68) it is noted that the average landings per vessel have increased, but landed values and average prices declined. This is accounted for by a shift in the species-mix caught and the average price received for landed fish. The extent of shifts to the production of cod and turbot and prices received are shown below:

Year	Percentage of total landings accounted for by		Average price per lb. in cents	
	<u>Cod</u>	<u>Turbot</u>	<u>Cod</u>	<u>Turbot</u>
	%	%	¢	¢
1966	67.8	14.2	4.16	3.00
1967	71.8	14.9	3.97	2.49
1968	38.7	49.7	3.71	3.00

Cod sales in saltbulk form accounted for 26.3 per cent of total cod landings in 1967 and only 2.1 per cent in 1968. The shift to the production of more turbot in 1968 was enhanced by the longlining enterprises equipping themselves with gill-nets. It was also reported that cod was scarce and turbot was abundant during the 1968 season.

There was an improvement in average landings and landed values in 1968 from the previous season for the 148-foot stern trawlers studied in the two-year period. The reason for the improvement in 1968 is increased fishing effort as indicated by days at sea, days fished and hours fished (Table 7). There were some shifts in production and changes in the prices received.

Year	Percentage of total landings accounted for by				Average price per lb., in cents			
	Cod	Flounder	Greysole	Redfish	Cod	Flounders	Greysole	Redfish
	%	%	%	%	¢	¢	¢	¢
1967	20.0	57.5	5.6	6.8	3.98	3.82	3.29	2.64
1968	28.2	49.9	9.1	2.3	3.81	3.95	3.12	2.72

The average trawler in 1968 increased its fishing effort (as measured by hours of dragging) by 47.3 per cent over the 1967 effort; the average landings increased by 15.9 per cent; landed value increased by 19.5 per cent and prices increased by 3.4 per cent. It is evident that increases in landings are not directly proportionate to the increases in the fishing effort.

The relationship of crew value productivity to capital intensity and vessel size is another important measure. In the case of owners, the important relationship is between the net investment (total capital cost less construction grants) and output. For federal and provincial governments who provide grants and other financial assistance, the relationship between total investment and output is also important. These relationships are detailed in Table 8.

Table 8 — Relationship Between Capital and Output, Newfoundland Vessels, 1968

Type of Vessel	LOA	Averages per Man			Ratio of Landed Value per Man to	
		Investment		Landed Value of Fish	Total Investment	Net Investment
		Total	Net			
	ft.	\$	\$	\$	%	%
Longliners . . . . .	38	4,463	2,422	1,997	44.7	82.5
Stern trawlers . . . . .	148	74,888	37,784	14,020	18.7	37.1

Capital intensity is measured by average total and net investment per man and crew value productivity is measured by landed value per man. The ratio of landed value per man to total and net investment per man measures the relationship of crew value productivity to capital intensity and vessel size.

The ratio of average landed value per man to average net investment per man in 1968, shows that for every \$100 invested the 38-foot longliner produced \$82.50 (\$44.70 for total investment) of fish. The ratios for the 148-foot steel stern trawlers were \$37.10 (\$18.70).

Increases in capital investment per man do not lead to directly proportionate increases in landings and landed values per man. However, it does lead to increases in labour productivity and, as will be shown later, to higher crew earnings. In this measure we take the net investment, landings and values for the 38-foot longliners as 1.0.

Type of Vessel	Net Investment	Landings	Landed Value
38-foot longliner	1.0	1.0	1.0
148-foot stern trawler	15.6	6.0	7.0

From the above it is noted that for the 148-foot stern trawlers net investment per man was 15.6 times that of the 38-foot longliners, the landings were 6.0 times and landed values 7.0 times that of the longliners. These details (Table 8) indicate that the stern trawlers generate less revenue per unit of capital than the longliners. However, the trawlers generate more revenue per unit of labour. Therefore, capital intensity was a significant variable in increasing labour productivity.

#### 4. Returns to Labour and Capital

##### (a) Returns to Labour

The net crew earnings are related to the crew value productivity as measured by value of landings less the crew expenses, where traditional lay arrangements are in effect. However, the manning of modern fishing vessels requires a great variety and degrees of skills. In order to attract and hold men with these skills the vessel owners have been offering incentives in addition to the traditional co-adventurous sharing arrangements. These have been discussed in some detail in the 1966 and 1967 reports.

Average net earnings per man per season in 1968 by crew category are detailed in Table 9.

Table 9 – Average Net Returns to Labour, by Crew Category, 1968 Newfoundland

Item	Longliners	Steel Stern Trawlers
LOA in feet . . . . .	38	148
Men in crew . . . . .	3.0	14.8
Days at sea . . . . .	63	267
<b>Crew category</b>	<b>Average net Earnings per Man per Season<sup>1</sup></b>	
	\$	\$
Captain . . . . .	1,317 (681 – 1,575) <sup>2</sup>	17,322 (14,740 – 20,241) <sup>2</sup>
Mate . . . . .		8,333 ( 7,173 – 10,242)
Boatswain . . . . .		5,643 ( 4,992 – 6,860)
First engineer . . . . .		8,237 ( 7,235 – 10,243)
Second engineer . . . . .		5,748 ( 4,651 – 7,213)
Cook . . . . .		5,652 ( 4,530 – 7,025)
First icer . . . . .		4,887 ( 4,010 – 6,190)
Second icer . . . . .		4,741 ( 3,780 – 6,190)
Deckhand . . . . .	1,317 (681 – 1,575)	4,628 ( 3,892 – 6,019)

<sup>1</sup>Job site earnings.

<sup>2</sup>Ranges in net earnings are shown in brackets.

The 38-foot longliners reported average net crew earnings at \$1,317 per man and these ranged from \$681 to \$1,575 per man for the season. For the captain-owner or partners of 38-foot longliners, the sharing arrangements do not assign extra returns to the captain. However, the captain-owner or partners receive in addition the residual from the boat share. The net cash crew share plus net cash boat share (after depreciation) ranged from \$858 to \$3,496 per owner.

The deckhands on the company-owned stern trawlers averaged \$4,628 per man per season. There were differences in the deckhand earnings which ranged from \$3,892 to \$6,019 per man. The variations in earnings arise from the crew value productivity of individual trawlers.

The earnings of the captains on trawlers ranged from \$14,740 to \$20,241 with an average of \$17,322 per captain for the season. Other specialized crew members on these vessels also did better than the average deckhand (Table 9).

For vessels which have been studied in the past, the average job site earnings in 1968 are compared with those in the previous years (Table 9(a)).

**Table 9(a) – Comparison of Average Net Returns to Labour  
Newfoundland Vessels, 1966-68**

Item	38-foot Longliners			148-foot Stern Trawlers	
	1966	1967	1968	1967	1968
Year					
Men in crew	2.8	3.1	3.0	15.5	14.8
Days at sea	77	74	63	190	267
<b>Crew Category</b>	<b>Average Net Earnings per Man per Season<sup>1</sup></b>				
	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
Captain	1,736	1,356	1,317	14,980	17,322
Mate				7,199	8,333
Boatswain				4,869	5,643
First engineer				7,024	8,237
Second engineer				5,175	5,748
Cook				4,978	5,652
First icer				4,140	4,887
Second icer				3,974	4,741
Deckhand	1,736	1,356	1,317	3,990	4,628

<sup>1</sup>Job site earnings.

The data show that for the 38-foot longliners the average net crew earnings were lower in 1968 when compared with the 1966-67 seasons. The main reason for the decline in earnings were species-mix caught and price received, for as we have seen before, the quantity caught increased per vessel for the period. In other words, crew value productivity, on the average, was lower in 1968 when compared with previous years.

For the 148-foot stern trawlers the average net crew earnings in 1968 for all job classifications was higher than those in 1967. In this case, the higher average earnings in 1968 was the result of higher average crew value productivity.

The average net earnings per day at sea for the various crew members are shown in Table 10.

The average deckhand on the 38-foot longliners had a net earning of \$20.90 per day at sea. For the 148-foot stern trawlers the average deckhand earnings were \$17.33 per day at sea.

#### (b) Returns to Capital

The average value of capital employed (investment from all sources as well as the net investment by owner in vessel, gear and deck equipment) is shown in Table 11 and this is related to the net earnings of the boat (profit per enterprise)<sup>1</sup>. No account is taken of the opportunity cost of investment (income foregone that might have been earned on owner's net worth in the best alternative types of investment). Only interest that is paid or payable is taken into account.

<sup>1</sup>Book profit before income taxes, taking into account operating revenue and expenditures on the balance sheet; in other words, profit/loss statement.

**Table 10 – Average Net Returns per Man per Day at Sea,  
Newfoundland Vessels, 1968**

Item	Longliners	Steel Stern Trawlers
LOA in feet .....	38	148
Men in crew .....	3.0	14.8
Days at sea .....	63	267
<b>Crew category</b>	<b>Average net Earnings per Man per Day at Sea</b>	
	\$	\$
Captain .....	20.90	64.88
Mate .....		31.21
Boatswain .....		21.13
First engineer .....		30.85
Second engineer .....		21.53
Cook .....		21.17
First icer .....		18.30
Second icer .....		17.76
Deckhand .....	20.90	17.33

**Table 11 – Average Net Returns to Capital,  
Newfoundland Vessels, 1968**

Type of Vessel	Averages per Vessel						Net Profit
	LOA	Total Capital Cost	Boat Construction Assistance		Rented Equipment	Net Investment by Owner <sup>1</sup>	
			Federal	Provincial			
	ft.	\$	\$	\$	\$	\$	\$
Longliners .....	38	13,390	3,800	2,323	–	7,267	851
Stern trawlers .....	148	1,108,349	542,172	–	6,963	559,214	-80,683

<sup>1</sup>Private net worth plus borrowed capital to finance the asset.

The 38-foot longliners were profitable to operate on the average, and the trawlers were unprofitable. All of the five longliners reported a profit which ranged from \$177 to \$1,485 per vessel. Every stern trawler studied reported a loss on 1968 operations and these ranged from -\$49,192 to -\$119,307 per vessel.

The average profitability position of the vessels studied in 1968 worsened as the following data show:

Type and Size of Vessel	Average Profit or Loss		
	1966	1967	1968
	\$	\$	\$
38-foot longliners	942	964	851
148-foot stern trawlers	–	-66,460	-80,683

The year-to-year fluctuations can be expected for the primary fishing enterprises which are subject to a number of variables such as weather and oceanographic conditions, abundance of various species of fish, prices received for landed fish and costs of operating the vessels. Also, a very important factor, but which cannot be measured accurately, is the management of the fishing vessels – principally by the captain and to some extent by the shore production manager in vertically integrated enterprises.

Further analysis of the revenue and expenditure position of these vessels in 1968 is detailed in Table 12.

**Table 12 – Relationships between Receipts and Expenditures,  
Newfoundland Vessels, 1968**

Type of Vessel	Average		Vessels			Averages per Vessel				
	LOA	Size of Crew	Total	Reporting		Gross Receipts	Per cent of Gross Receipts for			
				Profit	Loss		Total Cash Expense <sup>1</sup>	Net Crew Earnings	Depreciation	Total
	ft.	no.	no.	no.	no.	\$	%	%	%	%
Longliners . . .	38	3.0	5	5	—	6,053	14.5	64.5	6.9	85.9
Stern trawlers	148	14.8	7	—	7	207,804	72.0	47.5	19.4	138.9

The data show what proportion of the average gross receipts per vessel are distributed to total cash expenditures,<sup>1</sup> net crew earnings, and depreciation. For example, for every \$100.00 worth of fish landed by the 38-foot longliners, \$14.50 went to pay for the total cash expense, \$64.50 to the crew, and \$6.90 to cover depreciation charges. The total cost of these three items of expense was \$85.90, which left a profit of \$14.10 to the owners of the longliners. For the 148-foot stern trawlers the cost was \$138.90 for the three major items of expense for every \$100.00 worth of fish landed.

The stern trawlers are expensive to operate as the following data show:

Type of Vessel	Average Expenditures per Day at Sea			Average Landed Value of Fish per day at Sea
	Total Cash Expense <sup>1</sup>	Payment to crew	Total Cash Expenditures	
	\$	\$	\$	
38-foot longliners	14	62	76	95
148-foot stern trawlers	560	370	930	777

<sup>1</sup> See footnote to Table 12.

In the above calculation, depreciation is not included. The 38-foot longliners recorded a surplus of \$19 per day at sea over total cash expenditures as compared with a deficit of \$153 per day at sea for the stern trawlers. For further details of items of expense see Table 15 in Part II.

## IX. Nova Scotia

### 1. Coverage

This report contains brief operational and financial summaries of 37 fishing vessels operating out of Nova Scotia ports during 1968. Records were obtained for samples of 50-foot wooden crabbers, 54-to-60-foot wooden stern dragners, 92-to-97-foot wooden scallop dragners, 60-to-84-foot Scottish seiners, 65-to-70-foot and 94-to-108-foot herring seiners, 84-to-92-foot wooden longliners, 100-to-119-foot wooden side trawlers, 120 and 141-foot steel side trawlers, and 152-to-155-foot steel stern trawlers. These enterprises were grouped into 11 classes according to size, type of vessel and method of fishing and species caught. Where information is available the 1968 results are compared with previous years.

<sup>1</sup>Includes maintenance and repairs for hull, engine, winch, catching gear and electronic equipment, also expenses for fuel, oil, grease, ice, provisions, casual labour and wharfage. Fixed charges include marine and crew insurance, workmen's compensation, rentals, interest and other miscellaneous items.

## 2. Description

Physical characteristics of the vessels studies are summarized and compared in Table 1.

**Table 1— Description of Nova Scotia Vessels Studied, 1968**

Type of Vessel	Vessels in Sample	Design	Hull	Averages per Vessel			
				Age	LOA	Gross Tonnage	Power
	no.			yrs.	ft.	tons	B.H.P.
Crabbers .....	2	Conventional	Wooden	8	50	36	84
Draggers .....	4	Stern	"	5	56	48	272
Scallop draggers .....	4	Conventional	"	6	96	140	485
Longliners .....	4	"	"	4	88	134	368
Scottish seiners .....	3	"	"	6	70	93	293
Herring seiners .....	3	"	"	2	67	77	365
Herring seiners .....	3	"	"	3	103	182	698
Otter trawlers .....	3	"	"	4	110	228	723
Otter trawlers .....	4	"	Steel	5	120	289	668
Otter trawlers .....	3	"	"	4	141	359	765
Otter trawlers .....	4	Stern	"	3	154	629	1,135

Vessels 110 feet or less in length were of wooden construction and ranged in total capital investment per vessel from \$31,715 for the 50-foot crabbers to an average of \$407,579 for the 103-foot herring seiners. All vessels 120 feet and over were of steel construction and ranged in total capital investment per vessel from \$550,499 for the 120-foot side trawlers to an average of \$918,574 for the 154-foot stern trawlers. All vessels included in the study were built with financial assistance in the form of federal construction grants and 33 out of 37 fishing enterprises also received loans from the Fishermen's Loan Board.

The vessels included in the 1968 sample were of recent construction. The oldest vessels on the average were the crabbers, eight years old, and the youngest vessels were the 67-foot herring seiners, two years old. All vessels were equipped with diesel engines; vessels 110 feet or less were equipped with high-speed diesel engines ranging in B.H.P. from 84 per vessel for the 50-foot crabbers to 723 B.H.P. for 110-foot wooden trawlers; trawlers 110 feet and over were equipped with low-speed diesel engines ranging in horsepower from 668 per vessel for 120-foot steel side trawlers to 1,135 per vessel for the 154-foot steel stern trawlers.

In order to ensure safety and maximum use of fishing time, the modern fishing fleet is equipped with a variety of electronic equipment. The number of fishing vessels in Nova Scotia equipped with electronic equipment in 1968 was as follows:

Type of Electronic Equipment	Number of Nova Scotia Vessels Using This Equipment
Loran	348
Radar	426
Radio-telephone	888
Echo sounder	1,043
Navigator	151
Direction finder	70
Fish finder	130
Other (not stated)	91

The standard electronic equipment for all vessels, included in the 1968 study, comprised radio-telephone, radar and/or loran and a depth sounder. Depending on the type of vessel, kind of fishing carried on and grounds

usually fished, additional electronic equipment is used, such as Decca navigator, fish finders, sonars and other related equipment. For the smaller vessels, the 50-foot crabbers and the 56-foot stern draggers, the electronic equipment accounted for 15 per cent of the total investment for the average enterprise. For the large steel trawlers, the average investment per vessel in electronic equipment was about five times that of the crabbers, however this accounted for only three per cent of the total investment in the enterprise. As insurance against reducing the safety at sea or preventing the loss of fishing time, many vessels carry as spares, two and even three sets of a particular electronic equipment.

### 3. Operational Performance

The 37 vessels included in the 1968 study were manned by 371 fishermen. The total landings by the 37 vessels were 130,862,378 lb. of fish with a landed value of \$5,179,413 (Table 2).

Eighteen species were landed, some in substantial quantities and others in small amounts. Out of the total landings, herring accounted for 55.9 per cent in weight and 13.3 per cent in landed value; corresponding figures for haddock were 13.4 per cent and 25.5 per cent; for cod 13.0 per cent and 18.0 per cent; for scallops 0.7 per cent and 16.1 per cent, and for swordfish 0.8 per cent and 9.9 per cent. The otter trawlers and Scottish seiners reported landing 951,731 lb. of fish classified as poor quality fish suitable only for fish meal production. The other classes of vessels reported no landings of poor quality fish.

**Table 2 – Total Landings, Landed Values and Average Prices,  
By Species for 37 Nova Scotia Vessels, 1968**

Species	Total Landings	%	Total Landed Value	%	Average Price Received
	lb.		\$		¢
Cod . . . . .	16,969,335	13.0	933,802	18.0	5.50
Haddock . . . . .	17,483,017	13.4	1,322,881	25.5	7.57
Pollock . . . . .	4,897,313	3.7	148,503	2.9	3.03
Hake . . . . .	94,845	0.1	2,654	0.1	2.80
Cusk . . . . .	221,896	0.2	5,734	0.1	2.58
Halibut . . . . .	271,960	0.2	102,164	2.0	37.57
Turbot . . . . .	520	∅	18	∅	3.50
Flounders . . . . .	10,406,230	8.0	468,806	9.1	4.51
Redfish . . . . .	3,731,152	2.8	109,348	2.1	2.93
Wolfish . . . . .	447,131	0.3	16,273	0.3	3.64
Monkfish . . . . .	520	∅	10	∅	2.00
Herring . . . . .	73,094,970	55.9	688,034	13.3	0.94
Tuna . . . . .	57,326	∅	6,669	0.1	11.63
Swordfish . . . . .	996,618	0.8	512,323	9.9	51.41
Shark . . . . .	2,924	∅	206	∅	7.04
Squid . . . . .	6,630	∅	332	∅	5.00
Scallop <sup>1</sup> . . . . .	952,388	0.7	836,212	16.1	87.80
Crab <sup>2</sup> . . . . .	275,872	0.2	22,070	0.4	8.00
Unclassified <sup>3</sup> . . . . .	951,731	0.7	3,374	0.1	0.35
Totals . . . . .	130,862,378	100.0	5,179,413	100.0	3.96

<sup>1</sup>Shucked.

<sup>2</sup>In the shell.

<sup>3</sup>All species of poor quality are classified by buyers as for "fish meal" production.

∅ – Less than one-half of the unit.

Table 3 following details by type and size of vessel certain results of the fishing activities such as average landings and landed values. These are related to size of crew, number of trips, days at sea, days fished and hours of fishing.

Table 3 — Average Operational Performance of Nova Scotia Vessels, 1968

Type of Vessel	Averages per Vessel							
	LOA	Men in Crew	Trips	Days		Hours Fished	Landings	Landed Value
				At Sea	Fished			
	ft.	no.	no.	no.	no.	no.	lb.	\$
Crabbers . . . . .	50	2.1	47	54	54	362	187,183	12,896
Stern draggers . . . . .	56	3.0	38	80	78	560	784,902	37,698
Scallop draggers . . . . .	96	15.4	15	187	163	2,839	238,097	209,053
Longliners . . . . .	88	7.5	15	228	150	2,108	257,418	123,948
Scottish seiners . . . . .	70	5.9	16	106	85	860	307,460	46,029
Herring seiners . . . . .	67	6.0	59	*	*	*	6,578,080	63,229
Herring seiners . . . . .	103	7.7	63	173	91	427	17,786,910	166,116
Side trawlers . . . . .	110	10.3	25	207	187	2,786	2,422,618	129,675
Side trawlers . . . . .	120	14.3	27	249	194	2,835	3,941,380	190,659
Side trawlers . . . . .	141	16.3	29	264	213	3,112	3,141,651	200,754
Stern trawlers . . . . .	154	16.7	27	253	210	3,224	4,722,668	272,696

\*—Information incomplete.

If the species-mix is taken into account, the average landings and landed values are related to the type of fishing, fishing effort, prices received, and to the size of vessel. For example, the average 50-foot crabber made 47 trips in 54 days at sea and had an average landing of 187,183 pounds of shellfish and fish valued at \$12,896 per vessel. Crab accounted for 73.7 per cent of total landings and 85.6 per cent of total landed value per vessel. The remainder of landings was made up of cod, haddock, hake, flounders and a small amount of unclassified species. The crabbers obtained all of their catches on Cape Breton-P.E.I. banks. The scallop draggers on the average landed 238,097 lb. of shucked scallops with an average landed value of \$209,053 per vessel. Ninety-five per cent of their catches were obtained on Georges Bank. The average 88-foot longliner specialized in swordfishing with smaller landings of groundfish, halibut, turbot, tuna and shark. The average landings per vessel were 257,418 lb. (195,834 lb. of swordfish) with a landed value of \$123,948. The Scottish seiners participated in fishing by seining for 286 hours for groundfish and 574 hours in longlining for swordfish, for the average vessel. The average landings per vessel were 307,460 lb. valued at \$46,029. Swordfish accounted for 23 per cent of total landings and 45 per cent of total landed value. The average landings for the 67-foot herring seiners were 6,578,080 lb. valued at \$63,229 and for the 103-footers the averages were 17,786,910 lb. with a value of \$166,116.

The six herring purse seiners included in the study operated in the Gulf of St. Lawrence, in the Bay of Fundy and on grounds off Nova Scotia and Newfoundland. The movement from one ground to another is governed by the seasonal availability of herring and by climatic conditions. The landings, therefore, were made in several ports located in the four provinces as shown below:

Ports Located In	Landings	%
	lb.	
Nova Scotia	27,406,260	37.5
New Brunswick	7,435,840	10.2
Quebec	6,444,550	8.8
Newfoundland	31,808,320	43.5
<u>Grand Total</u>	<u>73,094,970</u>	<u>100.0</u>

Out of a total of 73,094,970 lb. of herring caught by the six herring seiners, 43.5 per cent was landed in Newfoundland ports, 37.5 per cent in Nova Scotia ports, 10.2 per cent in New Brunswick ports and the remainder of 8.8 per cent in Quebec ports.

All otter trawlers fished for groundfish. In 1968, the average 154-foot steel stern trawler had the best results with a landing of 4,722,668 lb. valued at \$272,696 per vessel.

The volume and value of landings for highliners are compared for the 11 classes of vessels studied in 1968 (Table 4).

When compared with the average performance (Table 3) in terms of landings and values the highliner performance as shown (Table 4) indicates a better utilization of the asset and better management. The results are higher volume –value productivity per vessel for the highliners when compared to the average performance.

**Table 4 – Highliner Landings and Values of Nova Scotia Vessels, 1968**

Size and Type of Vessel	Men in Crew	Days at Sea	Landings	Landed Value
	no.	no.	lb.	\$
50 – foot Crabber . . . . .	2.3	62	225,550	13,909
56 – foot stern dragger . . . . .	3.1	82	1,216,341	62,650
96 – foot scallop dragger . . . . .	15.7	225	267,216	234,854
88 – foot longliner . . . . .	7.1	237	326,915	153,408
70 – foot Scottish seiner . . . . .	5.9	125	372,849	56,342
67 – foot herring seiner . . . . .	6.0	66	8,995,140	82,295
103 – foot herring seiner . . . . .	7.9	213	22,988,990	215,180
110 – foot side trawler . . . . .	10.5	221	3,150,550	158,815
120 – foot side trawler . . . . .	14.5	257	4,559,208	225,025
141 – foot side trawler . . . . .	16.6	264	3,376,732	213,756
154 – foot stern trawler <sup>1</sup> . . . . .	16.3	287	5,095,060	320,735
154 – foot stern trawler <sup>2</sup> . . . . .	15.9	198	5,412,776	245,575

<sup>1</sup>Highliner in terms of landed value.

<sup>2</sup>Highliner in terms of quantity of landings.

As will be seen later this does not always result in higher profitability and may even result in a loss on the operation. Of interest here is that the 154-foot trawler highliner in terms of landings, 5,412,776 lb., also recorded a landed value of \$245,575 which was below the average of \$272,696 for all vessels in this group. The 154-foot trawler highliner in terms of landed value, \$320,735, also had a landing of 5,095,060 lb. which was above the average for the group. The principal reason for a high landed value for this vessel is the species-mix of landings – haddock a high-priced species accounted for 46 per cent of total landings, cod for 29.5 per cent and rejected fish for 0.9 per cent. The former 154-foot highliner in terms of quantity landed, but a lowliner in terms of landed value, caught large quantities of lower-priced species – flounders which accounted for 48 per cent of total landings, cod for 29 per cent and rejected fish for 2.6 per cent.

Further details of species-mix, landed values and average prices are given in Tables 10, 13 and 14 and for grounds fished in Table 30, Part II.

The comparative operational efficiency, for the 11 classes studied, is illustrated further by data in Table 5.

As in the previous year, the average 154-foot stern trawler had the best performance in output per man, per trip and per vessel day at sea in terms of quantity and value of landings. In these respects the 120-foot steel side trawler came second.

Table 5 – Operational Efficiency of Nova Scotia Vessels, 1968

Type of Vessel	1968 Averages						
	LOA	Landings per			Landed Values per		
		Man <sup>1</sup>	Trip <sup>2</sup>	Day at Sea <sup>2</sup>	Man	Trip	Day at Sea
	ft.	lb.	lb.	lb.	\$	\$	\$
Crabbers .....	50	87,062	3,983	3,435	6,141	274	239
Stern draggers .....	56	259,472	20,387	9,842	12,566	992	471
Scallop draggers .....	96	15,385	15,873	1,275	13,574	13,937	1,118
Longliners .....	88	34,322	16,879	1,130	16,526	8,263	544
Scottish seiners .....	70	52,707	19,625	2,909	7,802	2,877	434
Herring seiners .....	67	1,096,347	110,866	*	10,538	1,072	*
Herring seiners .....	103	2,280,373	282,332	102,617	21,574	2,637	960
Side trawlers .....	110	232,199	96,905	11,722	12,590	5,187	626
Side trawlers .....	120	275,620	147,341	15,844	13,333	7,061	766
Side trawlers .....	141	192,739	109,592	11,915	12,316	6,923	760
Stern trawlers .....	154	284,498	178,213	18,666	16,329	10,100	1,078

<sup>1</sup>Man per season.<sup>2</sup>Per vessel.

\* - Information not available.

The average 103-foot herring seiner recorded an average landing of 2,280,373 lb. of herring valued at \$21,574 per man for the season. The figures for the average 67-foot herring seiner were 1,096,347 lb. and \$10,538 per man.

The 88-foot longliners reported an average landed value of \$16,526 per man for the season, the figure for the scallop draggers was \$13,574 and for the 56-foot stern draggers \$12,566 per man.

The 50-foot crabbers recorded an average landed value of \$6,141 per man for the season and the figure for the Scottish seiners was \$7,802 per man.

The average vessel rate of output per hour of fishing and the average rate of output per man-day at sea are compared in Table 6.

Table 6 – Average Rate of Output, Nova Scotia, 1968

Type of Vessel	1968 Averages					
	LOA	Men in Crew	Vessel Output per Hour of Fishing		Average Output per Man-day at Sea	
			Landings	Value	Landings	Value
	ft.	no.	lb.	\$	lb.	\$
Crabbers .....	50	2.1	516	36	1,580	109
Stern draggers .....	56	3.0	1,401	67	3,240	156
Scallop draggers .....	96	15.4	83	74	82	72
Longliners .....	88	7.5	122	59	151	73
Scottish seiners .....	70	5.9	358	54	497	74
Herring seiners .....	67	6.0	*	*	*	*
Herring seiners .....	103	7.7	41,656	389	13,111	123
Side trawlers .....	110	14.3	988	47	1,136	61
Side trawlers .....	120	14.3	1,390	67	1,105	53
Side trawlers .....	141	16.3	1,009	65	731	47
Stern trawlers .....	154	16.7	1,464	85	1,122	65

\* - Information not available.

For trawlers the average rate of output per hour of fishing was highest for the 154-foot stern trawlers with a landing of 1,464 lb. of fish valued at \$85. The 56-foot stern draggers also had a very favourable output per hour of fishing with a landing of 1,401 lb. valued at \$67. In this respect the herring seiners had the most favourable performance, with a landing of 41,656 lb. valued at \$389 per vessel-hour of fishing for the 103-foot vessels.

Species-mix and method of fishing has quite an influence on the value of output per man-day at sea. The average output per man-day at sea for 154-foot stern trawlers was 1,122 lb. valued at \$65; for the 120-foot steel side trawlers the figures were 1,105 lb. and \$53 respectively. The average 56-foot wooden stern dragger recorded a very high output per man-day at sea, with a landing of 3,240 lb. valued at \$156 – haddock accounted for 65 per cent of total value of landings.

The crabbers recorded an output of 1,580 lb. valued at \$109 per man-day at sea; for the 103-foot herring seiners 13,111 lb. and \$123 respectively. The scallop draggers, longliners and Scottish seiners also recorded high average value of output per man-day at sea which ranged from \$72 for scallop draggers to \$74 for the Scottish seiners. However, the favourable performance of the Scottish seiners is due to participation in swordfishing as well as seining for groundfish.

In examining the performance of the medium-sized wooden stern draggers for the period 1964-1968, (Table 7(a)) it is noted that the average results in terms of landings, landed values and average prices have been lower in 1968 when compared with the five-year average.

Table 7(a) – Performance of 56-foot Wooden Stern Draggers, 1964-1968

Item	Averages per Dragger					
	1964	1965	1966	1967	1968	5-Year Average
No. of vessels . . . . .	4	4	4	3	4	4
Days at sea . . . . .	97	126	92	68	80	93
Hours dragging . . . . .	878	976	861	516	560	758
Landings in lb. . . . .	842,768	746,315	1,058,720	816,327	784,902	849,806
Landed value in \$ . . . . .	39,783	37,332	59,485	36,247	37,698	42,109
Average price per lb. in cents . . . . .	4.72	5.00	5.62	4.44	4.80	4.92

The reasons for the decline in 1968 are reduced fishing effort as indicated by days at sea and hours of dragging. Also, species-mix of landings and average prices for the various species affect the outcome in output. The extent of shifts to the production of cod and haddock and prices received are shown as follows:

Year	Percentage Total Landings Accounted for by		Average Price per lb. in cents	
	Cod	Haddock	Cod	Haddock
	%	%	¢	¢
1964	21.0	58.9	3.92	5.36
1965	27.4	41.2	4.46	6.09
1966	17.8	68.8	4.85	6.15
1967	18.5	65.9	4.11	4.81
1968	21.7	50.1	4.15	6.24

In the case of the scallop draggers (Table 7(b)) there has been a continuing decline in the average landings in the period 1962-1968 although there has been an increase in the fishing effort. The principal reason given for the lower average landings of scallops per vessel, is that this resource is getting scarcer due to over-fishing.

The average landing per dragger in 1968 was 238,097 lb. well below the seven-year average of 338,899 lb. and on the average 200,000 lb. below the 1962 average landings.

**Table 7(b) – Performance of 96-foot Wooden Scallop Dragers, 1962-1968**

Item	Averages per Scallop Dragger							
	1962	1963	1964	1965	1966	1967	1968	7-Year Average
No. of vessels	3	4	4	4	4	4	4	4
Days at sea	175	202	208	187	186	179	187	189
Hours dragging	2,339	2,046	2,610	2,251	2,635	2,412	2,839	2,447
Landings in lb.	438,100	402,176	365,987	351,097	329,482	247,357	238,097	338,899
Landed value in \$	147,934	157,147	161,545	193,877	136,071	148,187	209,053	164,831
Average price per lb. in cents	33.77	39.07	44.14	55.22	41.30	59.91	87.80	51.60

An increase in the demand for scallops at the consumer level has been passed to fishermen by higher prices. The average price received in 1968 for shucked scallops was 87.80 cents per pound, the highest in the seven-year period. The average landed value per dragger was \$209,053, in 1968, well above the seven-year average.

Comparison of average performance of the 88-foot wooden longliners for the period 1965-1968 are made in Table 7(c).

**Table 7(c) – Performance of 88-foot Wooden Longliners, 1965-1968**

Item	Averages per Longliner				
	1965	1966	1967	1968	4-Year Average
No. of vessels . . . . .	5	5	3	4	4
Days at sea . . . . .	232	221	250	228	233
Hours longlining . . . . .	2,150	2,203	2,317	2,108	2,194
Landings in lb. . . . .	597,901	681,765	371,433	257,418	477,129
Landed value in \$ . . . . .	110,330	118,650	148,751	123,948	125,420
Average price per lb. in cents. . . . .	18.45	17.40	40.05	48.15	31.01

The 1968 average landings and landed values per longliner were below those of 1967. This in part may be accounted for by a reduction in the fishing effort as indicated in Table 7(c). Also in 1968 the longliners continued to shift their production to the higher-priced species. The extent of shifts to the production of swordfish, halibut, and prices received are shown below:

Year	Percentage of Total Landings Accounted for by		Average Price per lb. in cents	
	Swordfish	Halibut	Swordfish	Halibut
	%	%	¢	¢
1965	32.1	2.0	44.35	38.84
1966	25.2	4.2	46.93	44.58
1967	75.4	10.5	43.78	57.08
1968	76.1	11.8	53.18	57.06

Comparison of average performance of 67-foot herring seiners for the 1967-1968 period is made in Table 7(d).

Table 7(d) – Performance of 67-foot Wooden Herring Seiners, 1967-1968

Item	Averages per Herring Seiner		
	1967	1968	2-Year Average
No. of vessels . . . . .	3	3	3
Days at sea . . . . .	*	*	*
Hours seining . . . . .	*	*	*
Landings in lb. . . . .	6,744,322	6,578,080	6,661,201
Landed value in \$ . . . . .	69,423	63,229	66,326
Average price per lb. in cents . . . . .	1.03	0.96	1.00

\* – Information not available.

The 1968 average landings per vessel were below those of 1967. However, this cannot be related to the fishing effort since this information for the 1967 and 1968 seasons was not available. The lower landed value in 1968, in part was the result of lower average price received and in part by lower landings.

The 103-foot herring seiners improved their average landings in 1968 over the previous years, however, the average landed value was below that of 1966. This is accounted for by a drop in the average price received, from 1.04 cents a pound in 1966 to 0.94 cents a pound in 1968 (Table 7(e)).

Table 7(e) – Performance of 103-foot Wooden Herring Seiners, 1966-1968

Item	Averages per Herring Seiner			
	1966	1967	1968	3-Year Average
No. of vessels . . . . .	3	4	3	3
Days at sea . . . . .	*	148	173	*
Hours seining . . . . .	*	436	427	*
Landings in lb. . . . .	16,822,500	12,578,598	17,786,910	15,729,336
Landed value in \$ . . . . .	175,296	126,070	166,116	155,827
Average price per lb. in cents . . . . .	1.04	1.00	0.94	0.99

\* – Information not available.

There was an improvement in average landings and landed values by the 110-foot wooden side trawlers in 1968 when compared with 1967 results. This can be attributed to greater fishing effort, resulting in larger landings, since the average price per pound dropped from 5.80 cents per pound in 1967 to 5.35 cents in 1968 (Table 7(f)).

Table 7(f) – Performance of 110-foot Wooden Side Trawlers, 1967-1968

Item	Averages per Trawler		
	1967	1968	2-Year Average
No. of vessels . . . . .	3	3	3
Days at sea . . . . .	199	207	203
Hours dragging . . . . .	2,171	2,786	2,478
Landings in lb. . . . .	2,140,286	2,422,618	2,281,452
Landed value in \$ . . . . .	124,174	129,675	126,924
Average price per lb. in cents . . . . .	5.80	5.35	5.58

The average 120-foot steel side trawler recorded lower average landings in 1968 when compared with previous years and the five-year average in spite of greater fishing effort, 2,835 hours of dragging (Table 7(g)).

Table 7(g) – Performance of 120-foot Steel Side Trawlers, 1964-1968

Item	Averages per Trawler					
	1964	1965	1966	1967	1968	5-Year Average
No. of vessels . . . . .	3	3	4	4	4	4
Days at sea . . . . .	260	257	261	236	249	253
Hours dragging . . . . .	2,481	2,607	2,560	2,543	2,835	2,605
Landings in lb. . . . .	4,735,485	5,050,894	4,746,210	4,040,908	3,941,380	4,502,975
Landed value in \$ . . . . .	195,386	206,734	214,335	179,784	190,659	197,380
Average price per lb. in cents . . . . .	4.13	4.09	4.52	4.45	4.84	4.41

A better species-mix of higher-priced species in 1968 resulted in an average price of 4.84 cents per pound, the highest in the five-year period. There have been shifts in production from year-to-year caused by market demand and the availability of certain species. The extent of shifts to the production of cod, haddock, flounder and redfish and prices received are shown below:

Year	Percentage of Total Landings Accounted for by				Average Price Per lb. in cents			
	Cod	Haddock	Flounders	Redifsh	Cod	Haddock	Flounders	Redifsh
	%	%	%	%	¢	¢	¢	¢
1964	36.7	11.6	39.4	6.1	4.05	6.71	3.98	2.94
1965	35.7	5.9	39.5	12.8	4.48	6.65	3.97	3.05
1966	25.6	9.6	39.2	19.2	4.80	7.08	4.89	2.88
1967	24.3	6.0	56.5	6.5	4.86	7.11	4.53	2.98
1968	33.1	9.4	41.9	8.8	5.23	7.38	4.72	2.77

There was a decline in average landings and values by 141-foot steel side trawlers in 1968 when compared with 1966 and 1967 performance (Table 7(h)).

Table 7(h) – Performance of 141-foot Steel Side Trawlers, 1966-1968

Item	Averages per Trawler			
	1966	1967	1968	3-Year Average
No. of vessels . . . . .	3	3	3	3
Days at sea . . . . .	287	268	264	273
Hours of dragging . . . . .	3,511	3,223	3,112	3,282
Landings in lb. . . . .	4,648,982	4,016,473	3,141,651	3,935,702
Landed value in \$ . . . . .	281,736	233,973	200,754	238,821
Average price per lb. in cents . . . . .	6.06	5.83	6.39	6.09

Fishing effort in 1968 was reduced by 3.4 per cent and the landings were reduced by 21.8 per cent. The 141-foot trawlers specialize in the catching of cod and haddock as the following shows:

Year	Percentage of Total Landings Accounted for by		Average Price Per lb. in cents	
	Cod	Haddock	Cod	Haddock
	%	%	¢	¢
1966	29.4	52.3	5.56	7.05
1967	29.1	44.8	5.23	7.35
1968	37.8	47.1	5.77	7.75

Fishing effort has been directed mainly to the catching of haddock. However, since this species has been less abundant in recent years the result has been a decline in the average landings per trawler.

The average 154-foot stern trawler increased the hours of dragging from 2,891 hours in 1967 to 3,224 hours in 1968. However, the average landings declined from 4,945,477 lb. in 1967 to 4,722,668 lb. in 1968 (Table 7(i)).

**Table 7(i) – Performance of 154-foot Steel Stern Trawlers, 1967-1968**

Item	Averages per Trawler		
	1967	1968	2-Year Average
No. of vessels . . . . .	4	4	4
Days at sea . . . . .	262	253	258
Hours of dragging . . . . .	2,891	3,224	3,058
Landings in lb. . . . .	4,945,477	4,722,668	4,834,072
Landed value in \$ . . . . .	280,776	272,696	276,736
Average price per lb. in cents . . . . .	5.68	5.77	5.72

These fishing enterprises specialize in cod, haddock and flounder production as the following shows:

Year	Percentage of Total Landings Accounted for by			Average Price Per lb. in cents		
	Cod	Haddock	Flounders	Cod	Haddock	Flounders
	%	%	%	¢	¢	¢
1967	29.1	40.5	11.1	5.27	7.35	3.69
1968	30.2	36.8	16.0	5.62	7.82	4.04

The two-year study of the stern trawlers indicates that the average performance in terms of landings has been below expectations.

The relationship of crew value productivity to capital intensity and vessel size is another important measure, especially where new types and sizes of vessel are introduced and recommended to fishermen or other vessel owners. In the case of owners (by fishermen, company or vertically integrated enterprises) the important relationship is between the net investment (total capital cost less construction subsidy) and output (Table 8).

Capital intensity is measured by average total and net investment per man and crew value productivity is measured by landed value per man. The ratio of landed value per man to net and total investment per man measures the relationship of crew value productivity to capital intensity and vessel size.

The ratio of average landed value per man to average net investment per man shows that for every \$100 invested the 50-foot crabbers produced \$55 of fish, the 56-foot stern draggers \$95, the 96-foot scallop draggers \$204 and the 88-foot longliners \$120. The output for 70-foot Scottish seiners was \$68 and the figure

for the 67-foot herring seiners was \$54 and for the 103-footers \$69. For trawlers the output for 110-footers was \$71, for 120-footers \$69, for 141-footers \$71 and for the stern 154-footers \$58 of fish landed for every \$100 invested per man.

**Table 8 – Relationship Between Net Investment and Output, Nova Scotia Vessels, 1968**

Type of Vessel	LOA	Average Net Investment per Vessel	Averages per Man			Ratio of Landed Value per man to	
			Net Investment	Landings	Landed Value	Net Investment	Total Investment
	ft.	\$	\$	lb.	\$	%	%
Crabbers . . . . .	50	23,586	11,231	87,062	6,141	54.7	40.7
Stern draggers . . . . .	56	39,596	13,199	259,472	12,566	95.2	67.8
Scallop draggers . . . . .	96	102,632	6,664	15,385	13,574	203.7	124.8
Longliners . . . . .	88	103,240	13,765	34,322	16,526	120.1	77.5
Scottish seiners . . . . .	70	68,193	11,558	52,707	7,802	67.5	48.0
Herring seiners . . . . .	67	117,007	19,501	1,096,347	10,538	54.0	40.6
Herring seiners . . . . .	103	242,649	31,513	2,280,373	21,574	68.5	40.8
Side trawlers . . . . .	110	181,817	17,652	232,199	12,590	71.3	43.8
Side trawlers . . . . .	120	276,500	19,336	275,620	13,333	69.0	34.6
Side trawlers . . . . .	141	282,750	17,347	192,739	12,316	71.0	35.3
Stern trawlers . . . . .	154	469,288	28,101	284,498	16,329	58.1	29.7

The above details indicate that larger trawlers generate less revenue per unit of capital than their smaller counterparts, such as the 56-foot stern dragger. The larger trawlers, as shown, have a higher asset/crew ratio than the 56-foot dragger. However, only the average 120-foot side trawler and 154-foot stern trawler generated more revenue per unit of labour than the 56-foot dragger. The scallop draggers, as shown, have the lowest asset/crew ratio, \$6,664 per man, but generated \$13,574 of revenue per man. The 103-foot herring seiners had the highest asset/crew ratio, \$31,513, and generated the highest revenue per unit of labour, \$21,574 per man. Therefore, capital intensity applied to different types of fishing enterprises, was a significant variable in increasing labour productivity.

#### 4. Returns to Labour and Capital

##### (a) Returns to Labour

##### (i) Earnings

The net crew earnings are related to the crew value productivity as measured by value of landings less the crew expenses, where traditional lay arrangements are in effect. However, the manning of modern fishing vessels requires a great variety and degrees of skill. In order to attract and hold men with these skills the vessel owners have been offering incentives in addition to the traditional co-adventurous sharing arrangements. These have been discussed in some detail in the previous reports.

The average net earnings per man per season in 1968 by crew category varied greatly from one class of vessels to another (Table 9). The highest basic net cash crew share per man per season (or take-home-pay, excluding commissions and extra wages) was recorded by 103-foot herring seiners at \$8,322 per man. This was followed by 88-foot longliners which reported earnings for the deckhand at \$6,432 per man and by scallop draggers at \$6,186 per man per season. The 154-foot steel stern trawlers reported average deckhand earnings at \$4,982 and 120-foot steel side trawlers at \$3,811 per man. The figure for 56-foot stern draggers was \$4,389 per man.

Table 9 – Average Net Returns to Labour, Nova Scotia Vessels, 1968

Item	Crabbers	Stern Draggers	Scallop Draggers	Longliners	Scottish Seiners	Herring Seiners	Herring Seiners	Otter Trawlers			
								Wooden Side	Steel Side	Steel Side	Steel Stern
LOA in feet. . .	50	56	96	88	70	67	103	110	120	141	154
Men in crew . .	2.1	3.0	15.4	7.5	5.9	6.0	7.7	10.3	14.3	16.3	16.7
Days at sea . . .	54	80	187	228	106	*	173	207	249	264	253
<b>Crew Category</b>	<b>Average Net Earnings Per Man Per Season<sup>3</sup></b>										
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Captain . . . . .	2,931	5,122	15,607	11,256	3,380	5,378	16,520	9,474	11,727	12,575	17,474
First Mate . . .			8,337	7,370	3,015	3,878	9,605	6,020	7,453	6,692	9,416
Second mate . .											5,418
Boatswain . . .								4,104	4,429	4,282	5,947
First engineer .			6,775	6,905	2,842	3,878	9,843	6,338	7,185	6,468	7,808
Second engineer			6,286				8,890	4,698	5,330	5,025	6,481
Cook . . . . .			6,767	6,778	2,978		9,326	4,886	4,834	4,978	6,349
Checker . . . . .								3,670			
First fish-hold .								3,634	4,119	3,912	5,594
Second fish-hold								3,570	4,064	3,890	5,276
Third fish-hold.									3,858		
Third-hand . . .									3,937		5,235
Deckhand <sup>1</sup> . . .							8,456		3,844	3,665	
Deckhand <sup>2</sup> . . .	2,544	4,389	6,186	6,432	2,829	3,878	8,322	3,557	3,811	3,633	4,982

<sup>1</sup>Deckhands participating in refit.

<sup>2</sup>Deckhands not participating in refit.

<sup>3</sup>Job site earnings.

\* - Information not available.

The captains on the 154-foot stern trawlers averaged \$17,474 per man per season, and on 103-foot herring seiners the average was \$16,520 and on scallop draggers it was \$15,607. Other specialized crew members did better than the average deckhand.

For vessels which have been studied for two years or longer the average deckhand earnings in 1968 are compared with previous years (Table 9(a)).

Table 9(a) – Trends in Average Deckhand Earnings, Nova Scotia

Year	Average Net Earnings Per Deckhand Per Season								
	56-foot Stern Draggers	96-foot Scallop Draggers	88-foot Longliners	67-foot Herring Seiners	103-foot Herring Seiners	Trawlers			
						110-foot Wooden Side	120-foot Steel Side	141-foot Steel Side	154-foot Steel Stern
	\$	\$	\$	\$	\$	\$	\$	\$	\$
1962. . . . .		3,383							
1963. . . . .	6,366	3,743							
1964. . . . .	3,893	3,917					3,942		
1965. . . . .	3,158	5,049	5,321				4,152		
1966. . . . .	6,759	3,142	5,695		8,781		4,329	5,113	
1967. . . . .	3,686	3,696	7,808	4,165	6,261	3,418	3,605	4,289	5,094
1968. . . . .	4,389	6,186	6,432	3,878	8,322	3,557	3,811	3,633	4,982

Where there have been no adjustments in the sharing arrangements, or in the size of the crew, the year-to-year variations in crew earnings are volume of catch, species-mix and price received for landed fish. In other words crew value productivity has varied year-to-year as has been shown previously by data in Tables 7(a) to 7(i) inclusive.

The average deckhand on the scallop dragger reported \$6,186 in take-home-pay in 1968 and \$3,696 in 1967. The main reason for an increase in the average net earnings in 1968 was a substantial increase (46%) in crew value productivity, and a minor reason was a smaller crew on the average, 15.4 men per dragger in 1968 and 16.0 men in 1967.

The average net earnings of the captains in 1968 are compared with previous years (Table 9(b)).

**Table 9(b) – Trends in Average Captain Earnings, Nova Scotia**

Year	Average Net Earnings Per Captain Per Season								
	56-foot Stern Draggers	96-foot Scallop Draggers	88-foot Longliners	67-foot Herring Seiners	103-foot Herring Seiners	Trawlers			
						110-foot Wooden Side	120-foot Steel Side	141-foot Steel Side	154-foot Steel Stern
	\$	\$	\$	\$	\$	\$	\$	\$	\$
1962. . . . .		9,228							
1963. . . . .	8,018	10,185							
1964. . . . .	4,749	10,793					11,803		
1965. . . . .	4,809	13,879	7,369				13,411		
1966. . . . .	7,259	9,526	7,893		17,542		14,421	17,852	
1967. . . . .	3,686	10,239	15,573	4,921	12,583	10,297	12,020	14,893	18,042
1968. . . . .	5,122	15,607	11,256	5,378	16,520	9,474	11,727	12,575	17,474

The captains on longliners and on otter trawlers reported lower average net earnings in 1968 when compared with 1967 earnings. The captains on other vessels recorded an increase in average net earnings in 1968 over 1967 earnings.

Average net earnings per day at sea for the various crew members are shown in Table 10. The 56-foot stern draggers recorded very high daily net earnings of the deckhands – \$54.86 per man per day at sea. This was followed by 103-foot herring seiners at \$48.10 per man per day at sea, \$47.11 for 50-foot crabbers, \$33.08 for scallop draggers, \$28.21 for longliners and \$26.69 for Scottish seiners. For otter trawlers the average net earnings per man per day at sea ranged from \$13.76 to \$19.69 for the deckhands. As shown the daily net earnings for the specialized crew members were well above the deckhand earnings. For example the 103-foot herring seiner captains averaged \$95.49 per day at sea, scallop dragger captains \$83.46 and 154-foot stern trawler captains \$69.07.

The net earnings of the crew members discussed so far, were arrived at by subtracting crew expenses from the gross crew earnings. The common crew-expense for all groups of vessels studied is for provisions (Table 11).

The average cost of provisions per man per day at sea ranged from \$2.09 for 50-foot crabbers to \$3.18 for Scottish seiners. Depending on the lay arrangement, other crew expenses, such as fuel and lube, ice, bait, rentals for electronic equipment, casual labour used for unloading fish and cleaning the fish-hold, etc., are other contributing factors in reducing the gross crew shares.

If the lay arrangements were the same for all similar or identical enterprises, then the level of earnings of the crews would be determined by quantity of fish landed, species-mix, prices received, size of crew and crew expenses, and the efficiency of the crew and management. Any one of the factors mentioned affects the level of crew earnings; however, some have more influence. In actual practice no two fishing enterprises are likely to

be the same in respect to any one of these factors, when individual enterprises, equipped with similar or identical vessels, are compared.

**Table 10 – Average Net Returns Per Man Per Day at Sea, Nova Scotia Vessels, 1968**

Item	Crabbers	Stern Draggers	Scallop Draggers	Longliners	Scottish Seiners	Herring Seiners	Herring Seiners	Otter Trawlers			
								Wooden Side	Steel Side	Steel Side	Steel Stern
LOA in feet . .	50	56	96	88	70	67	103	110	120	141	154
Men in crew . .	2.1	3.0	15.4	7.5	5.9	6.0	7.7	10.3	14.3	16.3	16.7
Days at sea . .	54	80	187	228	106	*	173	207	249	264	253
<b>Crew Category</b>	<b>Average Net Earnings Per Man Per Day at Sea</b>										
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Captain. . . . .	54.28	64.02	83.46	49.37	31.89	*	95.49	45.77	47.10	47.63	69.07
First mate . . . .			44.58	32.32	28.44	*	55.52	29.08	29.93	25.35	37.22
Second mate . . .											21.42
Boatswain . . . .								19.83	17.79	16.22	23.51
First engineer... .			36.23	30.28	26.81	*	56.90	30.62	28.86	24.50	30.86
Second engineer .			33.61				51.39	22.70	21.41	19.03	25.62
Cook . . . . .			36.19	29.73	28.09		53.91	23.60	19.41	18.86	25.09
Checker . . . . .								17.73			
First fish-hold.. .								17.56	16.54	14.82	22.11
Second fish-hold .								17.25	16.32	14.73	20.85
Third fish-hold . .									15.49		
Third-hand . . . .									15.81		20.69
Deckhand . . . . .							48.88		15.44	13.88	
Deckhand . . . . .	47.11	54.86	33.08	28.21	26.69	*	48.10	17.18	15.31	13.76	19.69

\* - Information not available.

**Table 11 – Average Cost of Provisions, Nova Scotia Vessels, 1968**

Type of Vessel	Averages per Vessel					
	LOA	Days at Sea	Men in Crew	Cost of Provisions		
				Per Vessel	Man Per Season	Man Per Day at Sea
	ft.	no.	no.	\$	\$	\$
Crabbers . . . . .	50	54	2.1	238	113	2.09
Stern draggers . . . . .	56	80	3.0	669	223	2.78
Scallop draggers . . . . .	96	187	15.4	7,902	513	2.74
Longliners . . . . .	88	228	7.5	5,064	675	2.96
Scottish seiners . . . . .	70	106	5.9	1,986	337	3.18
Herring seiners . . . . .	67	*	6.0	525	88	*
Herring seiners . . . . .	103	173	7.7	3,548	461	2.66
Side trawlers . . . . .	110	207	10.3	6,554	636	3.07
Side trawlers . . . . .	120	249	14.3	8,997	629	2.52
Side trawlers . . . . .	141	264	16.3	10,402	638	2.41
Stern Trawlers . . . . .	154	253	16.7	10,082	604	2.39

\* - Information not available.

**(ii) Labour Turnover**

Vessel owners are faced with two labour problems; undermanning for individual trips and turnover of crews. Quite frequently vessels sail to the fishing grounds without a full complement of men (Table 12). The data show that the side trawlers had greater difficulty in fully manning their vessels; for 110-foot side trawlers the number of men per trip ranged from eight to 15; for the 120-footers from ten to 16 and for the 141-footers from 12 to 19 men per trip. The 154-foot stern trawlers had a narrower range, from 15 to 18 men per trip. In some cases the number of men per trip is reduced if for example the vessel is directed to fish for redfish which is not dressed on board. However, the most frequent reason for undermanning is that some crew members do not show up at sailing time or quit without advance notice.

Skippers claim that they can not bring their vessels fishing to a desired efficiency level, partly due to the turnover rate and the related time in integrating new (not necessarily inexperienced) hands into working units at sea. This is brought out by examining one class of vessels, the 154-foot stern trawlers.

Trawler	Range Men per Trip	Average Size of Crew	Total Men Employed	Turnover Rate	Total Landings
					lb.
1	15-16	15.9	36	2.3	5,412,776
2	15-18	16.3	45	2.8	5,095,060
3	15-18	17.1	64	3.7	4,432,837
4	15-18	17.1	76	4.4	3,949,997

The data show that the turnover rate has quite an effect on the productivity of the vessels; the vessel with the lowest turnover rate had the highest landings. The average turnover rate on side trawlers was higher than on the 154-foot stern trawlers as shown below:

Trawler	Average per Vessel	
	Turnover rate	Landings
		lb.
154-foot stern	3.3	4,722,668
141-foot side	5.8	3,141,651
120-foot side	3.7	3,941,380

While it is not possible to determine an acceptable turnover rate in crews it can be concluded, however, that reducing the turnover rate will result in higher vessel fishing efficiency. This does not necessarily result in higher profitability of the vessel, since other factors such as costs must also be considered.

**(b) Returns to Capital**

The average value of capital employed (investment from all sources as well as net investment by owner in vessel, gear and deck equipment) is shown in Table 13 and this is related to the net earnings of the boat (profit per enterprise)<sup>1</sup>. No account is taken of opportunity cost (income foregone that might have been earned on owner's net worth in the best alternative types of investment). Only interest that is paid or payable is taken into account.

<sup>1</sup>Book profit before income taxes, taking into account operating revenue and expenditures on the balance sheet, in other words, profit/loss statement.

Table 12 – Number of Men in Crew per Trip, Nova Scotia Vessels, 1968

Item	Crabbers	Stern Draggers	Scallop Draggers	Longliners	Scottish Seiners	Herring Seiners	Herring Seiners	Otter Trawlers			
								Wooden Side	Steel Side	Steel Side	Steel Stern
LOA in feet	50	56	96	88	70	67	103	110	120	141	154
Number of trips made with	%	%	%	%	%	%	%	%	%	%	%
two-man crew	96.8	1.3									
three-man "	3.2	95.5									
four-man "		3.2			14.9						
five-man "					40.4						
six-man "				4.9	31.9	100.0	0.5				
seven-man "				41.0	12.8		18.2				
eight-man "				54.1			81.3	10.7			
nine-man "								34.6			
ten-man "								12.0	0.9		
eleven-man "								25.3	1.9		
twelve-man "								10.7	0.9	1.2	
thirteen-man "			1.7						20.6	3.5	
fourteen-man "			6.7					2.7	29.9	7.0	
fifteen-man "			33.3					4.0	27.1	15.1	10.4
sixteen-man "			56.6						18.7	25.6	40.6
seventeen-man "			1.7							23.2	24.5
eighteen-man "										23.2	24.5
nineteen-man "										1.2	
Total Trips	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table 13 – Average Net Returns to Capital, Nova Scotia Vessels, 1968

Type of Vessel	Averages per Vessel					
	LOA	Total Capital Cost	Federal Grant	Rented Equipment	Net Investment By Owner <sup>1</sup>	Net Profit or Loss
	ft.	\$	\$	\$	\$	\$
Crabbers . . . . .	50	31,715	5,882	2,247	23,586	- 1,847
Stern draggers . . . . .	56	55,630	11,984	4,050	39,596	6,363
Scallop draggers . . . . .	96	167,512	58,935	5,945	102,632	18,805
Longliners . . . . .	88	159,913	53,891	2,782	103,240	11,626
Scottish seiners . . . . .	70	95,916	25,715	2,008	68,193	1,867
Herring seiners . . . . .	67	155,857	38,850	—	117,007	643
Herring seiners . . . . .	103	407,579	159,342	5,588	242,649	- 3,349
Side trawlers . . . . .	110	296,332	107,057	7,458	181,817	-12,036
Side trawlers . . . . .	120	550,499	268,337	5,662	276,500	- 6,752
Side trawlers . . . . .	141	569,500	282,750	4,000	282,750	- 9,043
Stern trawlers . . . . .	154	918,574	438,172	11,114	469,288	-18,830

<sup>1</sup>Private net worth plus borrowed capital to finance the asset.

The data show that, on the average, 1968 was not a favourable year for vessels over 100 feet in length and for the 50-foot crabbers; the remaining groups of vessels, on the average, showed a profit on their operations. On the average the 56-foot stern draggers reported a profit of \$6,363 per vessel or 16.1 per cent return on the average net investment by owners. The scallop draggers reported an average profit of \$18,805 per vessel or 18.2 per cent on net investment. The figures for longliners were \$11,626 or 11.3 per cent. For Scottish seiners the figures were \$1,867 and 2.7 per cent and for 67-foot herring seiners \$643 and 0.5 per cent.

There were year-to-year variations in the profitability of the fishing vessels studied (Table 14).

Table 14 – Year-to-Year Variations in Average Profitability, Nova Scotia, 1968

Type of Vessel	Average Profit or Loss Per Vessel									
	LOA	1962	1963	1964	1965	1966	1967	1968	Averages	
									for Period	per Vessel
	ft.	\$	\$	\$	\$	\$	\$	\$	yrs.	\$
Stern draggers . . .	56			5,010	3,843	18,151	3,615	6,363	5	7,396
Scallop draggers . .	96	18,767	13,170	8,892	20,286	- 473	2,081	18,805	7	11,646
Longliners . . . . .	88				14,204	18,138	19,699	11,626	4	15,917
Herring seiners . . .	67						-360	643	2	142
Herring seiners . . .	103					25,816	-9,000	- 3,349	3	4,489
Side trawlers . . . .	110						-14,999	-12,036	2	-13,518
Side trawlers . . . .	120			11,581	5,077	11,955	-7,151	- 6,752	5	2,942
Side trawlers . . . .	141					43,113	819	- 9,043	3	11,630
Stern trawlers . . .	154						-18,807	-18,830	2	-18,818

The year-to-year fluctuations can be expected for the primary fishing enterprises which are subject to a number of variables such as weather and oceanographic conditions, abundance of various species of fish, prices received for landed fish and costs of operating the vessels. In addition a very important factor, but which

cannot be measured accurately is the management of the fishing vessels – principally by the captain and to some extent by the shore production manager in vertically integrated enterprises. With the exception of the longliners and 141-foot side trawlers, and 154-foot stern trawlers, the remaining classes of vessels improved their profitability position in 1968 over 1967 season by increasing their profit or by reducing their losses. For example the increase in the average profit of the scallop draggers in 1968 over 1967 is the result of higher average prices received, 87.80 cents per pound in 1968 and 59.91 cents in 1967. For the 141-foot side trawlers an average profit of \$819 per vessel in 1967 turned to a loss of \$9,043 in 1968; this can be attributed to a high turnover rate of crews, an average of 5.8 per vessel. The result was a lower average landing of fish in 1968 when compared to the 1967 performance.

Further analysis of the revenue and expenditure position of these vessels in 1968 are detailed in Table 15.

**Table 15 – Relationships Between Receipts and Expenditures, Nova Scotia, 1968**

Type of Vessel	Average		Vessels			Averages per Vessel				
	LOA	Size of Crew	Total	Reporting		Gross Receipts	Per cent of Gross Receipts for			
				Profit	Loss		Total Cash Expense	Net Crew Earnings	Depreciation	Total
	ft.	no.	no.	no.	no.	\$	%	%	%	%
Crabbers . . . . .	50	2.1	2	—	2	12,896	61.0	45.4	7.9	114.3
Stern draggers . . . . .	56	3.0	4	2	2	37,698	38.5	37.2	7.5	83.2
Scallop draggers . . . . .	96	15.4	4	4	—	209,053	35.5	51.9	3.5	90.9
Longliners . . . . .	88	7.5	4	3	1	123,948	40.6	44.3	5.7	90.6
Scottish seiners . . . . .	70	5.9	3	2	1	46,029	49.0	37.8	9.2	96.0
Herring seiners . . . . .	67	6.0	3	2	1	63,229	49.0	39.2	10.8	99.0
Herring seiners . . . . .	103	7.7	3	2	1	166,116	45.7	47.0	9.3	102.0
Side trawlers . . . . .	110	10.3	3	—	3	129,675	60.6	39.7	9.0	109.3
Side trawlers . . . . .	120	14.3	4	2	2	190,659	53.9	39.1	10.6	103.6
Side trawlers . . . . .	141	16.3	3	—	3	200,754	55.1	39.0	10.4	104.5
Stern trawlers . . . . .	154	16.7	4	1	3	272,696	55.0	39.5	12.4	106.9

All crabbers, 110-foot and 141-foot side trawlers included in the study recorded a loss on their 1968 operations, and all of the scallop draggers recorded a profit. For the remaining classes of vessels each group had profitable and unprofitable vessels (Table 15). The data also show what proportion of gross receipts are distributed to total cash expenditures, net crew earnings and to depreciation. For example for every \$100.00 worth of scallops landed by the 96-foot scallop draggers \$35.50 paid for the total cash expenditures, \$51.90 for the crew, and \$3.50 was set aside to cover depreciation charges. In other words the total cost of these three items was \$90.90 which left a profit of \$9.10, on every \$100.00 of scallops landed to the owners of the vessel. Apart from the average stern draggers, longliners, Scottish seiners and 67-foot herring seiners, all of the remaining classes of vessels recorded costs of operations above the landed value of fish, on the average. In examining individual items of expense (see Tables 15 and 16 in Part II), it may be noted that, apart from crew shares, on the average the gear and fuel costs, as well as bait for longliners, crabbers and Scottish seiners (when engaged in swordfishing) are the highest items of expense. Fishing gear costs are detailed and compared in Table 16.

The cost of gear per hour of fishing was \$3.04 for crabbers but to this must be added the cost of bait which amounted to \$3.97 per hour of fishing. The cost of bait for longliners was \$6.13 per hour of fishing and it was \$7.50 for scottish seiners for the time they were engaged in longlining for swordfish. The 154-foot stern trawlers recorded an average gear cost of \$8.62 per hour fished which was an improvement over 1967 costs which were recorded at \$12.19. When the ratios of cost of gear to the landed value of fish per hour fished are examined, the most favourable ratio is that for 88-foot longliners at 4.0 per cent and the least favourable is 11.8 per cent for the 141-foot side trawlers. The rate of consumption of gear is affected by the nature of the

grounds worked and species fished. The handling of the gear by the crew is another factor; the high ratio of the 141-foot side trawlers may be explained in part by the high turnover rate of the crew.

Comparisons of fuel oil and lube costs are made in Table 17.

**Table 16 – Average Cost of Fishing Gear, Nova Scotia Vessels, 1968**

Type of Vessel	Averages per Vessel						
	LOA	Hours of Fishing	Cost of Gear	Cost of Gear per Hour Fished	Landed Value of Fish per Hour Fished	Ratio of Cost of Gear to Landed Value per Hour Fished	Cost of Gear per 1,000 lb. of Fish Landed
	ft.	no.	\$	\$	\$	%	\$
Grabbers . . . . .	50	362	1,102	3.04	35.62	8.5	5.89
Stern draggers . . . . .	56	560	1,953	3.49	67.32	5.2	2.49
Scallop draggers . . . . .	96	2,839	16,406	5.78	73.64	7.8	68.90
Longliners . . . . .	88	2,108	4,925	2.34	58.80	4.0	19.13
Scottish seiners . . . . .	70	860	1,970	2.29	53.52	4.3	6.41
Herring seiners . . . . .	67	*	1,932	*	*	*	0.29
Herring seiners . . . . .	103	427	6,866	16.08	389.03	4.1	0.39
Side trawlers . . . . .	110	2,786	8,979	3.22	46.55	6.9	3.71
Side trawlers . . . . .	120	2,835	19,550	6.90	67.25	10.3	4.96
Side trawlers . . . . .	141	3,112	23,789	7.64	64.51	11.8	7.57
Stern trawlers . . . . .	154	3,224	27,794	8.62	84.58	10.2	5.89

\* – Information not available.

**Table 17 – Average Cost of Fuel and Lube, Nova Scotia Vessels, 1968**

Type of Vessel	Averages per Vessel						
	LOA	Engine	Days at Sea	Fuel and Lube Costs	Cost of Fuel		
					per Day at Sea	per 1,000 lb. of Fish Landed	as % of Landed Value
	ft.	H.P.	no.	\$	\$	\$	%
Crabbers . . . . .	50	84	54	680	12.59	3.63	5.3
Stern draggers . . . . .	56	272	80	3,076	38.45	3.92	8.2
Scallop draggers . . . . .	96	485	187	11,910	63.69	50.02	5.7
Longliners . . . . .	88	368	228	7,304	32.04	28.37	5.9
Scottish seiners . . . . .	70	293	106	2,012	18.98	6.54	4.4
Herring seiners . . . . .	67	365	59	1,816	30.78	0.28	2.9
Herring seiners . . . . .	103	698	173	9,816	56.74	0.55	5.9
Side trawlers . . . . .	110	723	207	17,394	84.03	7.18	13.4
Side trawlers . . . . .	120	668	249	18,219	73.17	4.62	9.6
Side trawlers . . . . .	141	765	264	21,796	82.56	6.94	10.9
Stern trawlers . . . . .	154	1,135	253	29,448	116.40	6.24	10.8

Data in the above table relate fuel costs to days at sea and to landings of fish. This tabulation does not measure the efficiency of engines but rather relates the cost of fuel to the time the average vessel was operating and to the quantity of fish landed and its value. The cost of fuel as a per cent of landed value of fish ranged from 2.9 per cent for the 67-foot herring seiners to 13.4 per cent for the 110-foot side trawlers.

In summing up the cost and profit position of the average vessel by type and size, the following tabulation compares these on the basis of per pound of fish landed.

**Table 18 – Relationship Between Average Cost and Price Received  
Per Pound of Fish, Nova Scotia Vessels, 1968**

Type of Vessel	Averages per Vessel			
	LOA	Cost per Pound of Fish Landed	Price Received per Pound	Profit or Loss per Pound
	ft.	cents	cents	cents
Crabbers . . . . .	50	7.88	6.89	-0.99
Stern draggers . . . . .	56	3.99	4.80	0.81
Scallop draggers . . . . .	96	79.90	87.80	7.90
Longliners . . . . .	88	43.63	48.15	4.52
Scottish seiners . . . . .	70	14.36	14.97	0.61
Herring seiners . . . . .	67	0.95	0.96	0.01
Herring seiners . . . . .	103	0.95	0.94	-0.01
Side trawlers . . . . .	110	5.85	5.35	-0.50
Side trawlers . . . . .	120	5.01	4.84	-0.17
Side trawlers . . . . .	141	6.68	6.39	-0.29
Stern trawlers . . . . .	154	6.17	5.77	-0.40

Since it is impossible to isolate costs for the various species of fish because of joint costs, the overall cost per pound is presented. The exceptions are the scallop draggers, which landed only shucked scallops and the herring seiners which also landed only one species. Atlantic crab accounted for 74 per cent of the average crabber landings; swordfish accounted for 76 per cent of the average longliner landings. In the case of other vessels, up to 12 species of fish were landed in various proportions. Under these circumstances the important measure is the relationship between cost and price received per pound.

The 56-foot stern draggers, scallop draggers, longliners, Scottish seiners and 67-foot herring seiners kept their costs below the price of fish; for the remaining classes of vessels the cost exceeded the price received.

## X. New Brunswick North Shore

### 1. Coverage

This report contains brief operational and financial summaries of fishing vessels operating out of New Brunswick North Shore ports during 1968. Records were obtained for samples of crabbers ranging in length overall from 48 to 60 feet, 72 and 86-foot wooden side draggers, and 73 to 94-foot steel herring purse seiners. In addition, single records were obtained for 92-foot and 126-foot steel stern trawlers. This report does not include the results for the herring purse seiners because the records were not completed at the time of writing this report. Also, the results for the steel stern draggers are not included in this report, but confidential summaries have been prepared for these vessels for official use only. The enterprises included in this analysis were grouped into four classes according to size, type of vessel, method of fishing, and species caught. Where information is available, the 1968 results are compared with previous years.

### 2. Description

Characteristics of vessels studied are summarized and compared in Table 1.

The 49-foot crabbers were built in 1952 to engage in groundfish fishing. These vessels were known as Chaleur draggers. The average original capital cost was \$28,328 per vessel. Through the 17-year period that these vessels were engaged in the fishery, rebuilding and improvements amounted to \$19,050 bringing the total capital investment up to \$47,378 per vessel by December 31, 1968. The rebuilding and other improvements were accounted for by \$9,180 for the hull, \$2,985 for the engine and \$6,885 for electronics and other deck equipment such as a winch; and for converting to crab fishing in 1968 by outlays for crab traps, a cargo boom, split block and aluminum containers for storing the crabs.

Table 1 – Vessel Data for New Brunswick Fishing Enterprises, 1968

Type of Vessel	All Vessels	Averages per Vessel			
		LOA	Gross Tonnage	Power	Age
	no.	ft.	tons	B.H.P.	years
Crabbers .....	3	49	26	141	17
Crabbers .....	2	60	44	135	16
Dragners .....	2	72	104	380	2
Dragners .....	6	86	122	509	4

The 60-foot crabbers were built in 1952 and in 1954, also for groundfishing, and were known as Gloucester dragners. The average original capital cost was \$41,722 per vessel, and improvements over the 16-year period amounted to \$21,116, bringing the total capital investment up to \$62,838 per vessel by December 31, 1968. The rebuilding and other improvements amounted to \$13,225 for the hull, \$722 for the engine, and \$7,169 for electronic and other deck equipment and for converting to the crab fishery.

The 72-foot dragners were built in 1967 and 1968. The Fishermen's Loan Board and the fishermen were looking for smaller vessels but with offshore capabilities and with a lower capital cost when compared with the 86-foot dragners. The average original capital cost of these vessels was \$157,310 each and for the 86-foot dragners, \$193,338.

All vessels included in the study were built with financial assistance in the form of federal construction grants and loans from the Fishermen's Loan Board. The Loan Board also assists financially by refinancing improvements and by supplying fishing gear and other items as a grant in order to develop a particular fishery, such as the crab fishery. The average amount of loans per vessel to finance improvements was \$12,836 for the 49-foot crabbers and \$9,554 for the 60-foot crabbers. Supplying of gear and other equipment for a developing fishery amounted to \$5,400 per vessel for the 49-foot crabbers and \$2,700 for the 60-footers.

All vessels were equipped with depth sounders and radio-telephones. The crabbers were equipped with a radar or loran. One of the larger dragners was equipped with radar only; the remainder carried both radar and loran. Also, three of the 86-foot dragners were equipped with a Decca navigator. All vessels were equipped with high-speed diesel engines.

### 3. Operational Performance

The three 49-foot crabbers manned by eight men operated in the Gulf of St. Lawrence. The first sailing date to the fishing grounds was on May 5th and the last landing date November 15. The total amount landed by the three vessels was 838,743 lb. with a landed value of \$69,072.75 or 8.24 cents a pound. Of the total landed weight, 94.2 per cent was accounted for by crab (in the shell), 3.8 per cent by cod and 2.0 per cent by flounders. Of the total landings 95.8 per cent were caught on South Gaspé grounds and the remainder on Chaleur Bay grounds. Of the total landings 65.6 per cent were made in Shippegan and 34.4 per cent in Lameque.

The two 60-foot crabbers manned by seven men also operated in the Gulf of St. Lawrence. The first sailing date was on May 18 and the last landing date on November 9. The total landings of the two vessels were 442,713 lb. of crab, in the shell, with a landed value of \$39,719.07 or 8.97 cents a pound. All landings were caught on South Gaspé grounds. Of the total landings 94.4 per cent were made in Shippegan, New Brunswick, 4.1 per cent in Chandler, and 1.5 per cent in Grande Rivière, Quebec.

The outside economic range for the two classes of crabbers operating out of New Brunswick North Shore ports is 6 to 7 hours from the home port. Therefore, the crab fishery by these enterprises was limited to South Gaspé grounds.

Considerable quantities of discards of crabs at sea were reported by these enterprises. Crabs of no economic value such as large males with soft shells and all small females are discarded at sea. The quantity of discards ranged from 15,360 pounds to 43,150 pounds per vessel for the 49-foot crabbers.

The two 72-foot side draggers manned by 10 men operated exclusively in the Gulf of St. Lawrence. The first sailing date to the fishing grounds was on April 22 and the last landing date on November 30. The total landings of the two vessels were 3,841,223 lb. of groundfish with a landed value of \$110,787.97 or 2.88 cents a pound. Of the total landings 9.4 per cent was accounted for by cod, 9.5 per cent by flounders, 78.1 per cent by redfish, and 1.9 per cent as rejected fish, suitable only for fishmeal production. Small quantities of haddock, hake, halibut, turbot and wolffish were also landed. Of the total landings 71.2 per cent were caught on Anticosti grounds, 21.4 per cent on Orphan and Bradelle banks, 5.5 per cent on Magdalens grounds and 1.9 per cent on South Gaspé grounds. The landings were made in four ports, as follows:

Port	Landings lb.	%
<b>New Brunswick</b>		
Caraquet	1,423,039	37.1
Lameque	89,695	2.3
Shippegan	2,231,013	58.1
<b>Quebec</b>		
Grindstone	97,476	2.5

The six 86-foot draggers included in the 1968 study, manned by 34 men, operated mainly in the Gulf of St. Lawrence and to a limited extent on grounds located outside the Gulf. The first sailing date was on March 7 and the last landing date on December 7. The total landings of the six vessels were 12,886,093 lb. of fish with a landed value of \$375,893.95 or 2.92 cents a pound. Of the total landings cod accounted for 9.7 per cent, haddock for 1.5 per cent, flounders for 13.7 per cent, and redfish for 69.7 per cent. Rejected fish accounted for 4.2 per cent and the remainder of landings were small quantities of pollock, hake, cusk, halibut, turbot and wolffish. Fishing grounds located in the Gulf of St. Lawrence accounted for 94.3 per cent of total landings and the remainder was from grounds outside the Gulf.

The landings were made in the following ports:

Port	Landings lb.	%
<b>New Brunswick</b>		
Caraquet	5,662,339	43.9
Lameque	2,352,970	18.3
Shippegan	3,369,392	26.1
<b>Nova Scotia</b>		
Lockeport	382,474	3.0
North Sydney	833,829	6.5
<b>Prince Edward Island</b>		
Souris	285,089	2.2

So far the overall performance of the fishing enterprises studied has been reviewed and related to grounds fished, species of fish landed, and ports of landing. Now, the more specific data are examined (Table 2).

Table 2 – Average Operational Performance of New Brunswick Vessels, 1968

Type of Vessel	Averages per Vessel							
	LOA	Men in Crew	Trips	Days		Hours Fished	Landings	Landed Value
				At Sea	Fished			
	ft.	no.	no.	no.	no.	no.	lb.	\$
Crabbers . . . . .	49	2.8	74	132	132	790	279,581	23,024
Crabbers . . . . .	60	3.6	*	*	*	*	221,356	19,860
Draggers . . . . .	72	4.8	20	142	116	1,627	1,920,612	55,394
Draggers . . . . .	86	5.6	20	150	119	1,686	2,147,682	62,649

\*Information not available.

The average 49-foot crabber made 74 trips in 132 days at sea and had an average landing of 279,581 lb., including crab and very small amounts of groundfish, valued at \$23,024. Crab accounted for 94.2 per cent of total landings and 97.3 per cent of total landed value per vessel. Only one vessel engaged in some groundfishing and for this pursuit made three trips in 15 days at sea.

The crabbers made one set per day and the number of traps per set ranged from 25 to 42. To haul, bait, and set a crab trap took a little over 10 minutes on the average, or 790 hours per vessel for the season. The crab traps per set were on the average 21 hours in the water. The average catch per trap haul was 71 lb. of crab of which 65 lb. were landed and six pounds discarded at sea.

Fishing effort data for the 60-foot crabbers were not available. However, field observations and reports indicate that the operation of the 60-footer was similar to that of the 49-footer.

The average 72-foot dragger in its first year of operation made 20 trips in 142 days at sea (116 days fished) and had an average landing of 1,920,612 lb. of fish valued at \$55,394 per vessel. The average 86-foot dragger made 20 trips in 150 days at sea (119 days fished) and had an average landing of 2,147,682 lb. of fish valued at \$62,649.

The performance of the 72 and 86-foot highliners was similar (Table 3).

Table 3 – Highliner Performance of New Brunswick Dragger, 1968

Size of Dragger	Trips	Days		Hours Fished	Landings	Landed Value
		At Sea	Fished			
LOA ft.	no.	no.	no.	no.	lb.	\$
72	21	158	140	1,842	2,311,972	69,331
86	22	163	125	2,043	2,429,924	69,532

The data for the highliners show that the 72-foot offshore dragger, with smaller capital investment, under good management is equal in fishing performance to the larger, more expensive 86-foot offshore dragger.

Trends in average fishing effort, quantity of landings, and values are detailed in Table 4.

**Table 4 – Trends in Fishing Effort, Landings and Values  
New Brunswick North Shore 86-foot Draggers**

Year	Boats in Sample	Averages per Dragger				
		Days at Sea	Hours Fishing	Landings per Season	Price Received per lb.	Landed Value
	no.	no.	no.	lb.	¢	\$
1965.....	4	163	1,691	2,141,641	3.24	69,353
1966.....	5	151	1,701	2,541,383	3.39	86,108
1967.....	6	143	1,524	2,259,873	2.81	63,647
1968.....	6	150	1,686	2,147,682	2.92	62,649
4-year Average . . .	—	152	1,650	2,272,645	3.09	70,439

The average quantity and value of landings for the 1968 season were below the previous years 1965-1967, although there was little change in the fishing effort. There have been shifts in production from year-to-year which may have been caused by variations in market demand and the availability of certain species of fish. The extent of shifts in the production of cod, flounders and redfish, and prices received by 86-foot draggers are shown below:

Year	Percentage of total Landings accounted for by			Average Price per lb. in Cents		
	Cod	Flounders	Redfish	Cod	Flounders	Redfish
	%	%	%	¢	¢	¢
1965	23.3	12.4	58.8	4.04	3.78	2.90
1966	14.8	16.8	65.1	4.42	3.79	3.06
1967	6.8	11.5	78.6	4.33	3.72	2.62
1968	9.7	13.7	69.7	4.00	3.78	2.66

The best operational performance for the average 86-foot dragger was in 1966 as a result of the proportions in the species-mix of cod, flounders and redfish and the higher average prices received for these species.

The comparative operational efficiency, for the vessels studied in 1968, is illustrated by data in Table 5.

**Table 5 – Operational Efficiency of New Brunswick Vessels, 1968**

Type of Vessel	1968 Averages						
	LOA	Landings per			Landed Value per		
		Man <sup>1</sup>	Trip <sup>2</sup>	Day at Sea <sup>2</sup>	Man	Trip	Day at Sea
	ft.	lb.	lb.	lb.	\$	\$	\$
Crabbers . . . .	49	99,850	3,795	2,113	8,223	311	174
Crabbers . . . .	60	60,646	*	*	5,517	*	*
Draggers . . . .	72	400,127	96,030	13,573	11,540	2,770	390
Draggers . . . .	86	381,245	105,624	14,350	11,187	3,132	418

<sup>1</sup>Man per season.

<sup>2</sup>Per vessel

\*Information not available.

The data show that the average 72-foot dragger had the best performance in output per man per season in terms of quantity and value of landings. This, in part, is due to the smaller crew on 72-footers, 4.8 men as compared with 5.6 men on 86-footers. However, the 86-foot dragger had larger landings and landed values per day at sea.

The relative fishing power of the vessels studied is compared in Table 6.

**Table 6 – Average Rate of Output, New Brunswick Vessels, 1968**

Type of Vessel	1968 Averages					
	LOA	Men in Crew	Vessel Output per Hour of Fishing		Average Output per Man-day at Sea	
			Landings	Value	Landings	Value
	ft.	no.	lb.	\$	lb.	\$
Crabbers .....	49	2.8	354	29	760	63
Crabbers .....	60	3.6	*	*	*	*
Draggers .....	72	4.8	1,180	34	2,818	81
Draggers .....	86	5.6	1,274	37	2,539	74

\*Information not available.

The average rate of vessel output per hour of fishing was slightly greater for the 86-footers, 1,274 lb. of landed fish as compared to 1,180 lb. for the 72-footers. However, these averages do not disclose performance of the highliners, these are compared by the following:

Highliner Landings for Draggers	72-footer lb.	86-footer lb.
Average vessel landings per trip	110,093	110,451
"    "    "    per day at sea	14,632	14,908
"    "    "    per hour of dragging	1,255	1,189
Average landings per man for the season	462,394	411,851
"    "    "    man-day at sea	2,952	2,539
"    "    "    man-hour fishing	251	201

The data indicate that, by and large, the highliner operational efficiency of the two size classes of draggers was similar for the measures used.

The relationship of crew value productivity to capital intensity is another important measure of efficiency (Table 7).

**Table 7 – Relationship Between Investment and Output, New Brunswick North Shore Vessels, 1968**

Type of Vessel	LOA	Average Investment per Vessel		Average Gross Receipts <sup>2</sup> per Vessel	Ratio of Gross Receipts to	
		Total	Net <sup>1</sup>		Total Investment	Net Investment
	ft.	\$	\$	\$	%	%
Crabbers .....	49	47,378	38,667	23,111	48.8	59.8
Crabbers .....	60	62,838	52,932	24,003	38.2	45.3
Draggers .....	72	157,310	99,181	55,394	35.2	55.9
Draggers .....	86	197,008	123,075	62,925	31.9	51.1

<sup>1</sup>Total capital cost less construction subsidy and rented equipment.

<sup>2</sup>Total fish sales plus receipts such as bonuses, rebates, charter and other earnings of the enterprise.

The ratios of gross receipts to total and net investment per vessel were most favourable for the 49-foot crabbers. An average owner of a 49-foot crabber in 1968 had an average gross receipts of \$59.80 for every \$100 invested in the enterprise. The figures for the 72-foot draggers were \$55.90 and for the 86-footers, \$51.10.

The relationship of crew value productivity to capital intensity and vessel size and type is another important measure. In this case the total and net investment per man is related to value of output per man (Table 8).

**Table 8 — Relationship Between Investment and Output per Man  
New Brunswick North Shore Vessels, 1968**

Type of Vessel	LOA	Average Investment per Man		Averages per Man		Ratio of Value of Output to Investment per Man	
		Total	Net	Landings	Value	Total	Net
	ft.	\$	\$	lb.	\$	%	%
Crabbers . . . . .	49	16,921	13,810	99,850	8,223	48.6	59.5
Crabbers . . . . .	60	17,455	14,703	60,646	5,517	31.6	37.5
Draggers . . . . .	72	32,773	20,663	400,127	11,540	35.2	55.9
Draggers . . . . .	86	35,180	21,978	381,245	11,187	31.8	50.9

The ratio of average landed value per man to average net investment per man in 1968 shows that for every \$100 invested, the 72-foot dragger produced \$55.90 (\$35.20 for total investment) worth of fish per man. The ratios for the 86-foot draggers were \$50.90 (\$31.80) and for 49-foot crabbers \$59.50 (\$48.60). The data for the draggers indicate that increases in capital investment per man lead to increases in productivity per man up to a point. Thus in 1968 the tentative results of the first year of operations of 72-foot draggers show that relationship between capital invested and productivity per man was somewhat better than for the 86-foot draggers.

#### 4. Returns to Labour and Capital

##### (a) Returns to Labour

##### (i) Lay Arrangements

The net crew earnings (take-home pay) are related to the crew value productivity as measured by value of landings of fish less the crew expenses, when traditional lay arrangements are in effect. The more sophisticated sharing arrangements provide for extra commission or pay which is related to the skills and responsibilities of a particular job site on the vessel. The various sharing arrangements in effect in 1968 were as follows:

##### Crabbers

First a deduction of five per cent is made from the gross stock for every trip which is credited to the Fishermen's Loan Board for a particular vessel. One vessel had a fixed amount of \$75 deducted for some of the trips instead of the five per cent. The balance is divided and expenses allocated as follows:

	Division of balance of gross stock		Allocation of Expenses
	Usual	One enterprise for a few trips	
Crew —	60%	55%	Crew — food, fuel, oil, ice and bait
Boat —	40%	45%	Boat — all other

After deducting crew expenses from the gross crew share, the remainder is divided equally among the crew members for every trip.

**72-foot draggers** – Two kinds of sharing arrangements were in effect for these enterprises.

**Case I** – First a deduction of five per cent is made from the gross stock for every trip which is credited to the Fishermen's Loan Board. The balance is divided and expenses allocated as follows:

Division of balance of gross stock	Allocation of Expenses
Crew – 37%	Crew – food, casual labour for unloading fish and extra wage for the cook (one per cent of gross stock).
Boat – 63%	Boat – all other expenditures and extra wages based on gross stock, 1.0% to engineer, 1.5% to icer and 1.0% to deckhand.

**Crew Category (job site) – basis for remuneration**

Captain	– net crew share
Engineer	– " " " plus 1% of gross stock
Cook	– " " " " 1% " " "
Icer	– " " " " 1.5% " " "
Deckhand	– " " " " 1% " " "

**Case II** – First a deduction of three per cent is made from the gross stock for electronic equipment. The balance is divided and expenses allocated as follows:

Division of Balance of Stock	Allocation of Expenses
Crew – 37%	Crew – food, casual labour for unloading fish and \$2 per day at sea for the cook.
Boat – 63%	Boat – all other.

After deducting crew expenses from the gross stock, the remainder is divided equally among the crew members for every trip.

**86-foot draggers** – The sharing arrangements for the six enterprises studied in 1968 are summarized in Table 9

**(ii) Earnings**

Taking into account the various sharing arrangements for identical or similar fishing enterprises, the average net earnings per man per season by crew category are detailed in Table 10.

**Table 9 – Lay Arrangements in Effect in 1968 for New Brunswick 86-foot Draggers**

item	Vessel Number					
	1	2	3	4	5	6
<b>Gross stock in %</b>	100	100	100	100	100	100
<b>Deductions from gross stock for</b>						
Fishermen's Loan Board % . . . . .	5		5		5	
Electronic equipment % . . . . .	3	7	5	5	3	5
<b>Remainder in %</b>	92	93	90	95	92	95
<b>Divided between</b>						
Crew % . . . . .	37	37	37	37	37	37
Boat % . . . . .	63	63	63	63	63	63
<b>Crew expenses</b>						
Food . . . . .	x	x	x	x	x	x
Casual labour for unloading fish .	x	x	x		x	x
Cook . . . . .	\$75.00 per trip (no crew share)		\$2.00 per day at sea		\$2.00 per day at sea	
<b>Boat expenses</b>						
All other not covered by crew . . .	x	x	x	x	x	x
<b>Extra wages for crew</b>						
Captain . . . . .		5% of gross stock				
Mate . . . . .		\$10-\$15 per trip	1% of gross stock	1% of gross stock		
Engineer . . . . .	\$2.00 per day at sea	\$10-\$25 per trip	\$2.00 per day at sea	\$2.00 per day at sea		
Cook . . . . .		\$2.00 per day at sea				

x - Crew or boat pay for these items of expense as indicated.

Table 10 – Average Net Returns to Labour, New Brunswick Vessels, 1968

Item	Crabbers	Crabbers	Draggers	Draggers
LOA in feet .....	49	60	72	86
Men in crew .....	2.8	3.6	4.8	5.6
Days at sea .....	132	*	142	150
<b>Crew Category</b>	<b>Average Net Earnings per Man per Season<sup>1</sup></b>			
	\$	\$	\$	\$
Captain .....	3,593	2,489	3,548	3,991
Mate .....				3,589
Engineer .....			3,747	3,486
Cook .....			3,893	3,450
Icer .....			3,841	3,320
Deckhand .....	3,593	2,489	3,688	3,290
	<b>Average Net Earnings per Man per Day at Sea</b>			
	\$	\$	\$	\$
Captain .....	27.22	*	24.99	26.61
Mate .....				23.93
Engineer .....			26.39	23.24
Cook .....			27.42	23.00
Icer .....			27.05	22.13
Deckhand .....	27.22	*	25.97	21.93

<sup>1</sup>Job site earnings.

\*Information not available.

The average take-home pay for the deckhands of 49-foot crabbers for a fishing period of 132 days at sea was \$3,593 or \$27.22 per day at sea; for 72-foot draggers the figures were \$3,688 for a fishing period of 142 days at sea or \$25.97 per day at sea; for the 86-foot draggers, for a fishing period of 150 days at sea, the net earnings for the average deckhand were \$3,290 or \$21.93 per day at sea.

All vessels were owned and operated by fishermen except one, which was owned by Fishermen's Loan Board. The captain-owners do not take additional pay in addition to the crew share but make additional payments to the other crew members. This has already been described under the lay arrangements. In the case of the vessel owned by the Loan Board, the captain receives a commission in addition to the crew share. For these reasons, the average net cash crew shares of the captain-owners are equal to those of the deckhands, and somewhat less than those of other specialized crew members. However, the captain-owners receive an additional return from the boat share, which includes a return to management.

For 86-foot draggers, which have been studied for a period of years, the average job site earnings are compared with those in the previous years (Table 11).

The data show that the average net job site earnings for the 86-foot draggers were lower in 1968 than in the three previous years. The main reasons for the decline in earnings were volume of catch, species-mix and price. In other words, crew value productivity, on the average, was lower in 1968 than in the previous years,

**Table 11 – Trends in Average Net Crew Earnings, New Brunswick 86-foot Draggers**

Year	Days at Sea	Captain	Mate	Engineer	Cook	Icer	Deckhand
	no.	\$	\$	\$	\$	\$	\$
1965 . . . .	163	4,601	3,989	3,852	3,705	3,461	3,416
1966 . . . .	151	5,419		4,970	4,837		4,694
1967 . . . .	143	5,390	4,008	4,064	3,980	3,826	3,354
1968 . . . .	150	3,991	3,589	3,486	3,450	3,320	3,290
4-Year Average . .	152	4,850	3,862 <sup>1</sup>	4,093	3,993	3,536 <sup>1</sup>	3,689

<sup>1</sup>3-year average.

### (b) Returns to Capital

The average value of capital employed (investment from all sources as well as the net investment by owners in vessel, gear and deck equipment) is shown in Table 12, and this is related to the net earnings of the boat (profit per enterprise)<sup>1</sup>. No account is taken of the opportunity cost of investment (income foregone that might have been earned on owner's net worth in the best available alternative types of investment). Only interest that is paid or payable is taken into account.

**Table 12 – Average Net Returns to Capital, New Brunswick Vessels, 1968**

Type of Vessel	Averages per Vessel						Net Profit
	LOA	Total Capital Cost	Boat Construction Assistance		Rented Equipment	Net Investment by Owner <sup>1</sup>	
			Federal	Provincial			
	ft.	\$	\$	\$	\$	\$	\$
Crabbers . . . . .	49	47,378	4,301	4,410	—	38,667	2,780
Crabbers . . . . .	60	62,838	7,206	2,700	—	52,932	1,910
Draggers . . . . .	72	157,310	58,129	—	—	99,181	11,098
Draggers . . . . .	86	197,008	72,433	—	1,500	123,075	-2,559

<sup>1</sup>Private net worth plus borrowed capital to finance the asset.

The data show that the two classes of crabbers and the 72-foot draggers were profitable in 1968, on the average. The 86-foot draggers in 1968 recorded an average loss of \$2,559 per enterprise.

On the average, the 49-foot crabbers reported a profit of \$2,780 per vessel or 7.2 per cent return on the average net investment per owner (and 5.9 per cent on total capital cost or investment). The figures for 60-foot crabbers were \$1,910 or 3.6 per cent (3.0 per cent). The figures for 72-foot draggers were \$11,098 or 11.2 per cent (7.1 per cent).

There were year-to-year variations in the profitability of the 86-foot draggers studied (Table 13).

<sup>1</sup>Book profit before income taxes, taking into account operating revenue and expenditures on the balance sheet, in other words, profit/loss statement.

Table 13 – Trends in Average Profit, New Brunswick 86-foot Draggers

Year	Boats in Sample	Days at Sea	Gross Receipts	Total Investment per Vessel	Net Profit or Loss per Vessel
	no.	no.	\$	\$	\$
1965 .....	4	163	69,504	186,751	9,972
1966 .....	5	151	86,193	190,228	18,219
1967 .....	6	143	70,298	196,356	9,239
1968 .....	6	150	62,925	197,008	-2,559
4-Year Average .....	—	152	72,230	192,586	8,718

Year-to-year fluctuations in profitability can be expected for primary fishing enterprises, which are subject to a number of variables such as weather and oceanographic conditions, abundance of various species of fish, prices received for landed fish, and costs of operating the vessels.

Year-to-year variations in fishing effort, species fished, quantity of landings, prices received and total receipts have been discussed previously. Variations in expenditures are detailed in Table 14. The average expenditures for “maintenance and repairs”, “other operating expenses” and for “fixed charges” increased in 1968 for the 86-foot draggers when compared with 1967 expenditures. The greatest increase was in the marine insurance premiums which were on the average \$3,384 in 1965; \$3,451 in 1966; \$5,091 in 1967; and \$10,020 in 1968.

Table 14 – Trends in Average Receipts, Expenditures and Net Returns  
New Brunswick 86-foot Draggers

Item	Averages per Dragger				
	1965	1966	1967	1968	4-year Average
	\$	\$	\$	\$	\$
<b>RECEIPTS</b>					
Fish sales .....	69,353	86,108	63,647	62,649	70,439
Other fishery receipts .....	151	85	6,651	276	1,791
<b>Total Receipts .....</b>	<b>69,504</b>	<b>86,193</b>	<b>70,298</b>	<b>62,925</b>	<b>72,230</b>
<b>EXPENDITURES</b>					
<b>Maintenance and Repairs</b>					
Hull .....	1,726	1,928	1,259	2,260	1,793
Engine .....	1,170	1,243	2,230	2,094	1,684
Winches .....	799	745	452	1,319	829
Catching gear .....	3,221	1,853	1,973	2,142	2,297
Electronic equipment .....	277	431	376	503	397
<b>Sub-total .....</b>	<b>7,193</b>	<b>6,200</b>	<b>6,290</b>	<b>8,318</b>	<b>7,000</b>
<b>Other Operating Expenses</b>					
Fuel, oil and grease .....	8,072	8,728	8,116	7,392	8,077
Ice .....	2,445	2,676	2,428	3,132	2,670
Provisions .....	2,631	2,400	2,217	2,417	2,416
Wharfage .....	—	148	54	—	51
Wages .....	1,088	557	613	758	754
Miscellaneous .....	968	1,511	831	1,003	1,078
<b>Sub-total .....</b>	<b>15,204</b>	<b>16,020</b>	<b>14,259</b>	<b>14,702</b>	<b>15,046</b>

**Table 14 – Trends in Average Receipts, Expenditures and Net Returns  
New Brunswick 86-foot Draggers (Cont'd)**

Item	Averages per Dragger				
	1965	1966	1967	1968	4-year Average
<b>Fixed Charges</b>					
Marine insurance . . . . .	3,384	3,451	5,091	10,020	5,486
Crew insurance . . . . .	—	—	—	—	—
Workmen's compensation. . . . .	—	—	—	—	—
Rentals . . . . .	712	641	689	733	694
Interest . . . . .	1,007	3,480	2,587	3,084	2,540
Municipal tax . . . . .	326	899	—	—	306
Other . . . . .	39	40	63	46	47
<b>Sub-total . . . . .</b>	<b>5,468</b>	<b>8,511</b>	<b>8,430</b>	<b>13,883</b>	<b>9,073</b>
<b>Total Cash Expenditures . . . . .</b>	<b>27,865</b>	<b>30,731</b>	<b>28,979</b>	<b>36,903</b>	<b>31,119</b>
<b>Net Returns to Labour &amp; to Capital</b>	<b>41,639</b>	<b>55,462</b>	<b>41,319</b>	<b>26,022</b>	<b>41,111</b>
<b>Distributed as:</b>					
<b>(1) Net crew earnings</b>					
(a) Commissions and wages . . . . .	2,580	1,181	5,128	1,386	2,569
(b) Net cash crew share . . . . .	20,584	27,696	19,059	18,534	21,468
<b>Sub-total . . . . .</b>	<b>23,164</b>	<b>28,877</b>	<b>24,187</b>	<b>19,920</b>	<b>24,037</b>
<b>(2) Net Cash boat share . . . . .</b>	<b>18,475</b>	<b>26,585</b>	<b>17,132</b>	<b>6,102</b>	<b>17,074</b>
Less depreciation . . . . .	8,503	8,366	7,893	8,661	8,356
Net earnings of boat . . . . .	9,972	18,219	9,239	-2,559	8,718

The average revenue-expenditure relationship worsened in 1968 when compared with the previous years. This is readily seen from a tabulation (Table 15) of the distribution of gross receipts to cash expenditures, crew share and boat share. Also shown is the distribution of the boat share between depreciation and profit.

The crabbers and the 72-foot draggers were studied for the first time in 1968. As previously stated, the crabbers were old draggers which were converted to fish for crab at a reasonable cost since the Provincial Department of Fisheries supplied some if not all of the traps and other items required to equip the vessels for crabbing. The 72-foot draggers were new vessels; one made the first fishing trip in October, 1967, and the other in May, 1968. For these reasons, maintenance and repairs to the hull, engine, deck equipment and fishing gear were small when compared with vessels which had been in operation for a number of years. This is particularly true for catching gear where the initial outlay is charged to capital cost and only replacement items and repairs are charged to current operating costs. It is expected that in subsequent years of fishing operations these costs will increase.

A summary of average receipts and expenditures and net returns for 1968 season is contained in Table 15 in Part II. The trap losses were quite high for the crabbers, ranging from 10 to 28 traps for the 49-footers with an average of 21 traps per vessel, and from 6 to 31 for the 60-footers, with an average of 18 traps per vessel.

The average revenue-expenditure relationships of the vessels studied in 1968 are detailed and compared in Table 16.

**Table 15 – Trends in the Distribution of Average Gross Receipts,  
New Brunswick 86-foot Dragger**

Item	1965	1966	1967	1968	4-Year Average
	\$	\$	\$	\$	\$
<b>Average Gross Cash Receipts</b> . . . . .	<b>69,504</b>	<b>86,193</b>	<b>70,298</b>	<b>62,925</b>	<b>72,230</b>
<b>Applied to:</b>					
(1) Total cash expenditures . . . . .	27,865	30,731	28,979	36,903	31,119
(2) Net cash crew share . . . . .	23,164	28,877	24,187	19,920	24,037
(3) Net cash boat share . . . . .	18,475	26,585	17,132	6,102	17,074
(a) Depreciation . . . . .	8,503	8,366	7,893	8,661	8,356
(b) Profit or loss . . . . .	9,972	18,219	9,239	-2,559	8,718
	%	%	%	%	%
<b>Average Gross Cash Receipts</b> . . . . .	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Applied to:</b>					
(1) Total cash expenditures . . . . .	40.1	35.7	41.2	58.6	43.1
(2) Net cash crew share . . . . .	33.3	33.5	34.4	31.7	33.3
(3) Net cash boat share . . . . .	26.6	30.8	24.4	9.7	23.6
(a) Depreciation . . . . .	12.2	9.7	11.2	13.7	11.6
(b) Profit or loss . . . . .	14.4	21.1	13.2	-4.0	12.0

**Table 16 – Distribution of Average Gross Receipts,  
New Brunswick North Shore Vessels, 1968**

Type of Vessel	Crabbers	Crabbers	Draggers	Draggers
Size class	49-foot	60-foot	72-foot	86-foot
Number of Vessels	3	2	2	6
	\$	\$	\$	\$
<b>Average Gross Cash Receipts</b> . . . .	<b>23,111</b>	<b>24,003</b>	<b>55,394</b>	<b>62,925</b>
<b>Applied to:</b>				
(1) Total cash expenditures . . . . .	7,678	9,227	21,078	36,903
(2) Net cash crew share . . . . .	10,060	9,084	18,006	19,920
(3) Net cash boat share . . . . .	5,373	5,692	16,310	6,102
(a) Depreciation . . . . .	2,593	3,782	5,212	8,661
(b) Profit or loss . . . . .	2,780	1,910	11,098	-2,559
	%	%	%	%
<b>Average Gross Cash Receipts</b> . . . .	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Applied to:</b>				
(1) Total cash expenditures . . . . .	33.2	38.4	38.1	58.6
(2) Net cash crew share . . . . .	43.5	37.9	32.5	31.7
(3) Net cash boat share . . . . .	23.3	23.7	29.4	9.7
(a) Depreciation . . . . .	11.2	15.7	9.4	13.8
(b) Profit or loss . . . . .	12.1	8.0	20.0	-4.1

As shown, the average revenue-expenditure relationship was favourable for the crabbers and the 72-foot draggers. For example, the total cash expenditures for the average 49-foot crabber accounted for 33.2 per cent of gross receipts and crew earnings accounted for 43.5 per cent, leaving a balance of 23.3 per cent of \$5,373 as a net cash boat share. The net boat share was distributed to cover depreciation charges, i.e. 11.2 per cent of gross receipts and the balance of 12.1 per cent was a profit, before income taxes, to the owners.

## XI. Prince Edward Island

### 1. Coverage

This report contains brief operational and financial summaries of 11 fishing vessels operating out of Prince Edward Island ports during 1968. Records were obtained for 60 and 65-foot wooden side draggers and 93-foot steel side draggers. Record data are compared with previous years, thus for 60-foot draggers comparisons of the year 1968 are made with 1952-1967 seasons, for 65-footers with 1959-1967 seasons, and for 93-foot steel draggers with 1966-1967 seasons.

Fourteen vessels were included in the 1968 study, and 11 of these are included in the detailed analysis.

### 2. Description

Physical characteristics of vessels studied are summarized and compared in Table 1.

**Table 1 – Description of Prince Edward Island Vessels Studied, 1968**

Type of Vessel	Vessels in Sample	Design	Hull	Averages per Vessel			
				Age	LOA	Gross Tonnage	Power
	no.			yrs.	ft.	tons	B.H.P.
Draggers . . . .	2	Conventional	Wooden	11	60	52	151
Draggers . . . .	5	"	"	8	65	69	175
Draggers . . . .	4	"	Steel	2	93	171	765

The eleven-year old 60-foot draggers were built in 1955 and 1959 and ranged in total capital investment (total original cost plus improvements up to December 31, 1968) per vessel from \$49,785 to \$60,805. The eight-year old 65-foot draggers were built in 1960-1961 period and ranged in total capital investment per vessel from \$68,533 to \$77,635. The two-year old 93-foot steel side draggers were built in 1966-1967 period and ranged in total investment per vessel from \$349,087 to \$355,576. All vessels included in the study were built with financial assistance in the form of federal government construction grants and loans from the provincial Fishermen's Loan Board.

All vessels were equipped with diesel engines, radio-telephones and depth sounders. Only one 65-foot dragger was equipped with a loran, the remainder of the vessels were equipped with both loran and radar. One 60-foot and one 65-foot dragger was equipped with a fish finder and all of the 93-foot steel draggers were equipped with Decca navigator.

### 3. Operational Performance

The operational fleet in 1968 comprised 14 draggers in Prince Edward Island. The overall volume and value of landings by this fleet are compared with previous years (Table 2).

The drop in total landings and landed values by the dragger fleet in 1968 is due to the reduction in the number of draggers operating from 22 in 1967 to 14 in 1968. A number of steel draggers were tied-up because the Georgetown fish processing plant was closed. Also, some wooden draggers were tied-up for a month or more when one of the plants at Souris closed down. Most of these turned to fishing for crab.

Table 2 – Trends in Landings and Landed Value, P.E.I. 1952-1968

Year	Draggers	Landings	Landed Value
	no.	lb.	\$
1968 . . . . .	14	18,178,283	666,361
1967 . . . . .	22	26,947,184	1,008,888
1966 . . . . .	22	27,039,353	1,062,371
1965 . . . . .	23	20,472,708	730,296
1952-1967 average . . . . .	18	12,363,110	422,823

The 14 draggers fleet landed a total of 18,178,283 lb. of fish with a landed value of \$666,361. Out of the total landings 83.8 per cent was landed in Souris, P.E.I. and the remainder of 16.2 per cent of Nova Scotia ports. The wooden draggers accounted for 19.6 per cent of total landings and the steel draggers for 80.4 per cent. For landings by species see Table 10 in Part II.

Table 3 following details certain results of fishing activities such as average landings and landed values per vessel. These are related to size of crew, number of trips, days at sea, and hours of fishing, when available.

Table 3 – Operational Performance of P.E.I. Draggers, 1968

Type of Dragger	No. of Boats	Averages per Vessel						
		LOA m	Men in Crew	Trips	Days at Sea	Hours Fished	Landings	Landed Value
	no.	ft.	no.	no.	no.	no.	lb.	\$
Wooden side . . . . .	2	60	4.2	9	52	*	368,000	14,449
Wooden side . . . . .	5	65	3.6	33	94	877	548,148	26,209
Steel side . . . . .	4	93	9.2	30	235	1,942	3,577,825	119,797

\*—Information not available.

If the species-mix is taken into account, the average landings and landed values are related to the type of fishing, fishing effort, prices received, and to the size of the vessel. For example, the average 93-foot steel side dragger with a crew of 9.2 men made 30 trips in 235 days at sea and had an average landing of 3,577,825 pounds of fish valued at \$119,797 per vessel. Redfish accounted for 57 per cent of total landings, cod for 20 per cent and the remainder of the landings comprised small quantities of haddock, pollock, hake, cusk, halibut, turbot, flounders and wolffish. Also, the average enterprise reported that 12.7 per cent of the total landings was classified as poor quality fish suitable only for fishmeal production.

The average 65-foot dragger with a crew of 3.6 men made 33 trips in 94 days at sea and landed 548,148 lb. of fish valued at \$26,209. Cod accounted for 32.0 per cent of total landings, flounders for 32.5 per cent, hake for 12.8 per cent and crab (in the shell) for 18.3 per cent. Small quantities of haddock and wolffish were also landed and 3.2 per cent was classified as “for fishmeal” production.

The average 60-foot dragger with a crew of 4.2 men made nine trips in 52 days at sea and landed 368,000 lb. of fish valued at \$14,449 per vessel. Cod accounted for 33.4 per cent of total landings, flounders for 53.8 per cent, hake for 7.3 per cent, haddock for 2.9 per cent. The remainder of the landings were made up of small quantities of pollock, turbot, wolffish, redfish and 2.2 per cent was classified “for fishmeal” production.

Trends in average fishing effort, quantity of landings and landed values are compared in Table 4.

Table 4 – Trends in Operational Performance of P.E.I. Draggers

Year	All Draggers	Averages per Dragger		
		Days at Sea	Landings	Landed Value
	no.	no.	lb.	\$
<b>60-foot draggers</b>				
1968.....	2	52	368,000	14,449
1967.....	4	79	459,665	15,016
1952-67 average .....	10	123	618,121	19,885
<b>65-foot draggers</b>				
1968.....	5	94	548,148	26,209
1967.....	6	117	919,794	28,832
1955-67 average .....	6	192	853,222	28,372
<b>93-foot steel side draggers</b>				
1968.....	4	235	3,577,825	119,797
1967.....	6	188	2,211,883	74,153
1966-67 average .....	5	128	1,570,089	51,998

For the 60 and 65-foot draggers the average quantity and value of landings for the 1968 season were below the 1967 season and the long-term averages. This lower performance in 1968 was due to reduced fishing effort, as indicated by days at sea.

For the 93-foot steel side draggers the average quantity and value of landings for the 1968 season were above the 1967 and the 1966-1967 averages. This higher average performance in 1968 was due to an increase in fishing effort.

The comparative operational efficiency in 1968, for the three classes of draggers studied, is illustrated by data in Table 5.

Table 5 – Operational Efficiency of P.E.I. Draggers, 1968

Type of Dragger	All Boats	Averages						
		LOA	Landings per			Landed Value per		
			Man <sup>1</sup>	Trip <sup>2</sup>	Day at Sea <sup>2</sup>	Man	Trip	Day at Sea
	no.	ft.	lb.	lb.	lb.	\$	\$	\$
Wooden side .....	2	60	89,756	40,889	7,077	3,440	1,605	278
Wooden side .....	5	65	150,590	16,814	5,831	7,280	794	279
Steel side .....	4	93	387,840	118,275	15,224	13,021	3,993	510

<sup>1</sup>Man per season.

<sup>2</sup>Per vessel.

The data show that the average 93-foot dragger had the best performance in output per man, per vessel trip and day at sea in terms of quantity and value of landings. As will be seen later capital intensity per man engaged on the steel draggers was a significant factor in increasing labour productivity.

The relative fishing power of the vessels studied is shown by data in Table 6.

Table 6 – Average Rate of Output, Prince Edward Island, 1968

Type of Vessel	Averages					
	LOA	Men in Crew	Vessel Output per Hour of Fishing		Average Output per Man-day at Sea	
			Landings	Value	Landings	Value
	ft.	no.	lb.	\$	lb.	\$
Wooden side . . . . .	60	4.2	*	*	1,688	66
Wooden side . . . . .	65	3.6	625	30	1,596	76
Steel side . . . . .	93	9.2	1,842	62	1,643	55

\* – Information not available.

The average rate of vessel output per hour of fishing increases with the size of vessel; for 65-footers it was 625 lb. and for 93-footers, it was 1,842 lb. There was little difference in the average quantity of output per man-day at sea for the three classes of draggers studied. However, the value of output per man-day at sea was lowest for the 93-footers at \$55. Species-mix and landing 12.7 per cent of rejected fish by the steel draggers were the main reasons for the lower value output figure when compared with the two classes of wooden draggers. The favourable value of output per man-day at sea for 65-footers is accounted for by landing crab (in the shell) which accounted for 18.3 per cent of total landings and the price received was 10 cents per pound.

The relationship of crew value productivity to capital intensity and vessel size is another important measure of efficiency (Table 7).

Table 7 – Relationship Between Investment and Output, Prince Edward Island, 1968

Type of Vessel	LOA	Average Net Investment per Vessel	Averages per Man			Ratio of Landed Value per Man to	
			Net Investment	Landings	Landed Value	Net Investment	Total Investment
			\$	lb.	\$	%	%
Wooden side . . . . .	60	32,972	7,850	89,756	3,440	43.8	37.8
Wooden side . . . . .	65	53,589	14,722	150,590	7,280	49.4	36.9
Steel side . . . . .	93	180,696	19,588	387,840	13,021	66.5	34.1

The ratio of average landed value per man to average net investment per man in 1968 shows that for every \$100 invested the 60-foot dragger produced \$43.80 (\$37.80 for total investment) of fish. The ratios for 60 and 65-footers were depressed because these vessels fished for very short periods, 60-footers spent 52 days at sea on the average and 65-footers 94 days per vessel.

#### 4. Returns to Labour and Capital

##### (a) Returns to Labour

The net crew earnings are related to the crew value productivity as measured by value of landings less the crew expenses. The specialized crew members, captains, mates, boatswains, engineers, cooks and icers receive a net crew share plus additional pay.

The average net earnings per man per season in 1968 by crew category are detailed in Table 8 and for earnings per day at sea in Table 9.

Table 8 – Average Net Returns to Labour, P.E.I. Draggers, 1968

Item	Wooden Side	Wooden Side	Steel Side
LOA in feet . . . . .	60	65	93
Men in crew . . . . .	4.1	3.6	9.2
Days at sea . . . . .	52	94	235
<b>Crew Category</b>	<b>Average Net Earnings Per Man Per Season<sup>1</sup></b>		
	\$	\$	\$
Captain . . . . .	1,740	3,299	9,468
Mate . . . . .	1,065	2,463	5,920
Boatswain . . . . .	929	2,213	4,749
First engineer . . . . .			5,238
Second engineer . . . . .			4,464
Cook . . . . .	1,046	2,192	4,312
Icer . . . . .	968	2,144	4,081
Deckhand . . . . .	882	2,053	3,578

<sup>1</sup>Job site earnings.

Table 9 – Average Net Returns Per Man Per Day at Sea, P.E.I. Draggers, 1968

Item	Wooden Side	Wooden Side	Steel Side
LOA in feet . . . . .	60	65	93
Men in crew . . . . .	4.2	3.6	9.2
Days at sea . . . . .	52	94	235
<b>Crew Category</b>	<b>Average Net Earnings Per Man Per Day at Sea</b>		
	\$	\$	\$
Captain . . . . .	33.46	35.10	40.29
Mate . . . . .	20.48	26.20	25.19
Boatswain . . . . .	17.87	22.11	20.21
First engineer . . . . .		23.54	22.29
Second engineer . . . . .			19.00
Cook . . . . .	20.12	23.32	18.35
Icer . . . . .	18.62	22.81	17.37
Deckhand . . . . .	16.96	21.84	15.22

The average take-home pay for the deckhands on 60-foot draggers was \$882 or \$16.96 per day at sea; for the 65-foot draggers the figures were \$2,053 and \$21.84; and for the 93-foot draggers \$3,578 and \$15.22. The specialized crew members did somewhat better than the deckhands. The general low level of average earnings by crews on 60-footers is due to the limited effort put into fishing as measured by days at sea.

The average net take-home pay for all crew members on 60-footers was \$1,311 in 1968, \$1,492 in 1967 and \$1,681 for the 16-year average (1952-1967). For the 65-foot draggers the respective figures were \$2,612 in 1968, \$3,023 in 1967 and for the 9-year average (1959-1967) of \$2,335.

#### (b) Returns to Capital

In 1968 there was an improvement in the average profit/loss position for the three groups of vessels when compared with 1967 results (Table 10).

**Table 10 – Average Net Returns to Capital, P.E.I. Draggers**

Type of Dragger	LOA	Average Net Profit per Vessel				
		1968	1967	1966-67	1959-67	1952-67
	ft.	\$	\$	\$	\$	\$
Wooden Side .....	60	1,167	-2,865			754
Wooden Side .....	65	-855	-2,104		-803	
Steel side .....	93	-8,385	-27,585	-18,200		

The improvement in 1968 over 1967 was due for the most part by a reduction of "total cash expenditures" which do not include crew shares or depreciation. In 1968 "total cash expenditures" as a percentage of "gross cash receipts" for 60-footers was 47.6 per cent (it was 70.3 per cent in 1967); for 65-footers the figures were 54.4 per cent (57.6 per cent); and for 93-footers 58.0 per cent (81.3 per cent). For further details refer to Table 15 in Part II.

The distribution of gross receipts to cash expenditures, crew shares and boat shares is shown in Table 11.

**Table 11 – Distribution of Average Gross Receipts, P.E.I. Draggers, 1968**

Type and size of dragger	Wooden 60-foot	Wooden 65-foot	Steel Side 93-foot
Number of boats	2	5	4
	\$	\$	\$
<b>Average Gross Cash Receipts</b> .....	<b>14,856</b>	<b>27,434</b>	<b>119,797</b>
<b>Applied to:</b>			
(1) Total Cash Expenditures .....	7,078	14,925	69,458
(2) Net Cash Crew Share .....	4,956	9,543	45,547
(3) Net Cash Boat Share .....	2,822	2,966	4,792
	%	%	%
<b>Average Gross Cash Receipts</b> .....	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Applied to:</b>			
(1) Total Cash Expenditures .....	47.6	54.4	58.0
(2) Net Cash Crew Share .....	33.4	34.8	38.0
(3) Net Cash Boat Share .....	19.0	10.8	4.0

The average gross receipts for the three classes of draggers were sufficient to cover cash expenditures and crew shares, and a surplus was recorded for the net cash boat share. With the exception of the 60-foot draggers, the average net cash boat share for the 65 and 93-footers was insufficient to cover the total average depreciation charges.

## XII. Quebec

### 1. Coverage

This report contains brief operational and financial summaries of 30 fishing vessels operating out of Quebec ports during 1968. Records were obtained for samples of 60 and 65-foot wooden draggers, 82-foot steel draggers, 87-foot wooden draggers and 89-foot steel herring purse seiners. Record data are compared with previous years when information is available, thus for 60-foot draggers comparisons of the year 1968 are made with 1953-1967 seasons, for 65-footers with 1959-1967 seasons, and for 82-foot steel draggers with 1963-1967 seasons.

The herring purse seiners are company-owned, one 87-foot wooden dragger is owned by a cooperative and the remaining vessels are fishermen-owned.

## 2. Description

Physical characteristics of vessels studied are summarized and compared in Table 1.

**Table 1 – Description of Quebec Vessels Studied, 1968**

Type of Vessel	Vessels in Sample	Design	Hull	Averages per Vessel			
				Age	LOA	Gross Tonnage	Power
	no.			yrs.	ft.	tons	B.H.P.
Draggers . . . . .	15	Conventional	Wooden	5	60	49	225
Draggers . . . . .	7	"	"	5	65	67	330
Draggers . . . . .	4	"	Steel	6	82	127	310
Draggers . . . . .	2	"	Wooden	2	87	123	505
Herring Seiners . . . . .	2	"	Steel	3	89	151	486

The 60-foot wooden draggers were built in 1955-1967 period and ranged in total capital investment (total original cost plus improvements up to December 31, 1968) per vessel from \$55,342 to \$84,800. The 65-foot wooden draggers were built in 1963-1965 period and ranged in total capital investment per vessel from \$87,994 to \$110,019. The 82-foot steel draggers were built in 1961-1963 period and ranged in total capital investment per vessel from \$225,009 to \$252,535. The 87-foot wooden draggers were built in 1966 and in 1967 and ranged in total capital investment per vessel from \$205,275 to \$220,654. The herring purse seiners were built in 1965 and in 1966 and ranged in total capital investment per vessel from \$351,430 to \$392,203. All vessels included in the study were built with financial assistance in the form of federal government construction grants, and interest free loans from the Quebec government.

All vessels were equipped with depth sounders and radio-telephones. However, only one of the 60-foot draggers was equipped with a loran; four of the 65-footers were equipped with radar and two of these also carried a loran. Three of the 82-foot steel draggers were equipped with radar, loran and Decca navigator and one was equipped with loran only. The 87-foot steel herring purse seiners were equipped with radar, loran and fish finders.

All vessels were equipped with diesel engines.

## 3. Operational Performance

The 30 vessels included in the 1968 study were manned by 134 fishermen. The total landings by the 30 vessels were 55,936,073 lb. of fish with a landed value of \$1,223,585 (Table 2).

Twelve species were landed, some in substantial quantities and others in small amounts. Out of the total landings, herring accounted for 39.4 per cent in weight and 16.2 per cent in landed value; corresponding figures for redfish were 38.6 per cent and 48.4 per cent; for cod 13.2 per cent and 24.1 per cent; for flounders 5.0 per cent and 7.5 per cent. The remainder of the landings were made up of haddock, pollock, hake, halibut, turbot, wolffish, shrimp and crab. The draggers reported landing 1,398,399 lb. of fish classified as poor quality fish suitable only for fish meal production.

Table 3 following details by type and size of vessel certain results of the fishing activities such as average landings and landed values. These are related to size of crew, number of trips, days at sea, days fished and hours of fishing.

**Table 2 – Total Landings, Landed Value and Average Prices  
By Species for 30 Quebec Vessels, 1968**

Species	Total Landings	%	Total Landed Value	%	Average Price Received
	lb.		\$		¢
Cod . . . . .	7,382,765	13.2	295,260	24.1	4.00
Haddock . . . . .	3,510	∅	211	∅	6.00
Pollock . . . . .	131	∅	4	∅	3.00
Hake . . . . .	39,171	∅	424	∅	1.08
Halibut . . . . .	36,916	∅	8,832	0.7	23.92
Turbot . . . . .	487,453	0.9	9,726	0.8	2.00
Flounders . . . . .	2,772,624	5.0	91,317	7.5	3.29
Wolfish . . . . .	24,145	∅	971	0.1	4.02
Redfish . . . . .	21,554,477	38.6	592,235	48.4	2.75
Herring . . . . .	22,015,220	39.4	198,138	16.2	0.90
Shrimp . . . . .	133,161	0.2	15,979	1.3	12.00
Crab . . . . .	88,101	0.2	8,810	0.7	10.00
Unclassified . . . . .	1,398,399	2.5	1,678	0.2	0.12
<b>Totals . . . . .</b>	<b>55,936,073</b>	<b>100.0</b>	<b>1,223,585</b>	<b>100.0</b>	<b>2.19</b>

∅ Less than one-half of 0.1 %.

**Table 3 – Average Operational Performance of Quebec Vessels, 1968**

Type of Vessel	Averages per Vessel							
	LOA	Men in Crew	Trips	Days		Hours Fished	Landings	Landed Value
				At Sea	Fished			
	ft.	no.	no.	no.	no.	no.	lb.	\$
<b>Driggers</b>								
Wooden side . . . . .	60	3.8	25	131	103	1,697	793,405	26,698
Wooden side . . . . .	65	4.2	24	141	105	1,729	1,319,708	39,040
Steel side . . . . .	82	5.0	22	135	101	1,801	1,924,973	51,387
Wooden side . . . . .	87	5.1	30	169	133	2,096	2,540,973	73,074
Herring sieners . . . . .	89	8.0	52	*	*	*	11,007,600	99,068

\*Information not available.

The data show that the average landings and landed values are related to the size of vessel, if allowances are made for differences in species-mix. Details of species-mix, average prices and landed values are given in Tables 10, 13 and 14 in Part II.

The volume and value of landings for highliners are compared for the five classes of vessels in Table 4.

The 60-foot highliner with a crew of 4.0 men made 32 trips in 164 days at sea and landed 1,270,653 lb. of fish valued at \$38,900. Cod accounted for 24 per cent of total landings, flounders for 13 per cent, redfish for 58 per cent and the remainder of the landings comprised small quantities of haddock, hake, halibut,

turbot and wolffish. Also, this enterprise reported that three per cent of the total landings was classified as poor quality fish suitable only for fishmeal production.

**Table 4 – Highliner Landings and Values For Quebec Vessels, 1968**

Type of Vessel	LOA	Men in Crew	Trips	Days at Sea	Landings	Landed Value
	ft.	no.	no.	no.	lb.	\$
<b>Draggers</b>						
Wooden side . . . . .	60	4.0	32	164	1,270,653	38,900
Wooden side . . . . .	65	5.0	23	111	1,595,660	42,431
Wooden side . . . . .	65	4.1	27	145	1,338,583	49,898
Steel side . . . . .	82	5.6	20	131	2,278,875	58,049
Wooden side . . . . .	87	5.0	31	186	2,691,480	77,627
Herring seiners . . . . .	89	8.0	54	*	13,010,800	117,097

\*Information not available.

In terms of quantity of landings the highliner 65-footer with a crew of 5.0 men made 23 trips in 111 days at sea and landed 1,595,660 lb. of fish value at \$42,431. Redfish accounted for 76 per cent of the total landings by this enterprise, cod for 10 per cent, flounders for five per cent and rejected fish for nine per cent. The remainder of the landings comprised small quantities of haddock, halibut and wolffish.

In terms of value of landings the highliner 65-footer with a crew of 4.1 men made 27 trips in 145 days at sea and landed 1,338,583 lb. of fish valued at \$49,898. Cod accounted for 74 per cent of total landings, flounders for 12 per cent and redfish for 12 per cent. The remainder of the landings comprised small quantities of haddock, hake, halibut, turbot, wolffish and rejected fish (0.8 per cent of total landings).

The highliner 82-foot steel dragger with a crew of 5.6 men made 20 trips in 131 days at sea and landed 2,278,875 lb. of fish valued at \$58,049. Redfish accounted for 79 per cent of total landings, cod for five per cent, flounders for five per cent and rejected fish for 11 per cent.

The highliner 87-foot wooden dragger with a crew of 5.0 men made 31 trips in 186 days at sea and landed 2,691,480 lb. of fish valued at \$77,627. Redfish accounted for 76 per cent of total landings, cod for 11 per cent, flounders for nine per cent, turbot for two per cent and rejected fish for two per cent.

Trends in average fishing effort, quantity of landings and landed values are compared in Table 5.

For the three classes of draggers the average quantity and value of landings for the 1968 season were above the 1967 and the long-term averages. This higher average performance in 1968 was due to an increase in fishing effort, as indicated by days at sea and hours of dragging.

The relationship between time at sea and landings is shown in Table 6 for 60-foot draggers.

During the 16-year period, 275 records were obtained for 60-foot draggers. These were classified according to days spent at sea and related to average landings per dragger. The data indicate that there was a definite relationship between time spent at sea and quantity of landings for the average dragger.

The four classes of draggers obtained all of their catches on banks located in the Gulf of St. Lawrence (for details see Table 30 in Part II).

The vessels included in the 1968 study made their landings in several ports (Table 7).

Table 5 – Trends in Fishing Effort, Landings and Landed Values, Quebec Draggers

Year	Boats in Sample	Days at Sea	Hours Fishing	Landings per Season	Price Received per lb.	Landed Value
	no.	no.	no.	lb.	¢	\$
<b>Averages for 60-foot Draggers</b>						
1953 .....	4	70	861	410,134	2.2	8,822
1954 .....	4	85	1,013	547,212	2.7	14,653
1955 .....	5	100	1,173	705,934	2.8	19,931
1956 .....	12	105	1,154	726,906	2.5	18,487
1957 .....	17	119	1,345	724,110	2.4	17,267
1958 .....	20	123	1,417	709,646	2.9	20,873
1959 .....	20	126	1,496	789,814	2.8	22,525
1960 .....	22	123	1,468	656,804	2.8	18,374
1961 .....	24	117	1,319	636,240	3.1	19,520
1962 .....	27	123	1,541	627,051	3.3	20,657
1963 .....	25	106	1,262	544,292	3.4	18,278
1964 .....	23	113	1,406	524,889	3.3	17,202
1965 .....	14	130	1,613	707,627	3.5	25,042
1966 .....	14	130	1,760	741,732	3.4	25,441
1967 .....	15	107	1,426	607,947	3.4	20,496
1968 .....	15	131	1,697	793,405	3.4	26,698
16-year Average	—	113	1,372	653,359	3.0	19,642
<b>Averages for 65-foot Draggers</b>						
1959 .....	4	121	1,627	642,867	2.9	18,629
1960 .....	4	105	993	626,506	3.1	19,256
1961 .....	4	109	1,238	628,242	3.2	19,939
1962 .....	4	70	762	371,439	3.4	12,527
1963 .....	10	97	1,107	536,247	3.3	17,569
1964 .....	11	105	1,226	648,253	3.1	20,266
1965 .....	6	124	1,446	846,506	3.4	28,340
1966 .....	7	127	1,612	1,057,903	3.1	33,247
1967 .....	5	127	1,698	1,167,134	2.8	33,177
1968 .....	7	141	1,729	1,319,708	3.0	39,040
10-year Average	—	113	1,344	784,480	3.1	24,199
<b>Averages for 82-foot Draggers</b>						
1963 .....	5	102	1,218	717,289	3.2	23,066
1964 .....	5	101	1,251	947,230	3.0	28,158
1965 .....	5	123	1,499	1,327,982	3.1	41,422
1966 .....	5	116	1,682	1,464,733	3.2	47,158
1967 .....	4	98	1,463	1,558,097	2.8	44,211
1968 .....	4	135	1,801	1,924,973	2.7	51,387
6-year Average	—	112	1,486	1,323,384	3.0	39,234

**Table 6 – Relationship Between Days at Sea and Landings  
Quebec 60-foot Draggers, 1953-1968**

Days at Sea	Annual Records	Averages per Dragger		Average Landings per	
		Days at Sea	Landings	Day at Sea	Hour of Drugging
	no.	no.	lb.	lb.	lb.
Less than 50 .....	12	35	221,676	6,274	551
50 – 74 .....	18	64	351,336	5,523	511
75 – 99 .....	38	90	494,588	5,503	464
100 – 124 .....	97	114	642,498	5,618	486
125 – 149 .....	96	135	741,265	5,501	436
150 and over .....	14	159	951,435	5,997	476
All Records .....	275	114	634,845	5,589	463

**Table 7 – Percentage Distribution of Landings by Ports,  
Quebec Vessels, 1968**

Type of Vessel	Wooden Draggers	Wooden Draggers	Steel Draggers	Wooden Draggers	Herring Seiners
Size class	60-foot	65-foot	82-foot	87-foot	89-foot
Landings in	%	%	%	%	%
<b>Quebec</b>					
St. Maurice .....			0.1		
Rivière-aux-Renards .....	38.7	41.8	1.0	42.5	
Gaspé .....		0.2			
Sandy Beach .....	29.6	0.5	16.4	42.1	
Ste. Thérèse .....	0.3				
Grande-Rivière .....	0.5				
Newport .....	16.5	16.4			
Anse-au-Griffon .....	0.2				
Paspébiac .....				3.3	
Cap-aux-Meules .....	0.5	23.5	48.4	5.7	59.3
Amherst .....	1.2			4.3	
Havre-Aubert .....		10.5	33.7		
Etang-du-Nord .....				2.1	
Rivière-au-Tonnerre .....	7.9	4.1	0.4		
<b>New Brunswick</b>					
Lamèque .....	1.5				
Shippegan .....	1.8	1.7			
Caraquet .....	1.0	1.3			11.0
Robichaud .....	0.3				
<b>Nova Scotia</b>					
Yarmouth .....					1.0
<b>Newfoundland</b>					
Not specified .....					28.7
Totals .....	100.0	100.0	100.0	100.0	100.0

The data show that the 60-foot draggers landed 4.6 per cent and 65-footers 3.0 per cent of their catches in New Brunswick ports, and the remainder was landed in Quebec ports. The 82 and 87-footers landed all of their catches in Quebec ports. The herring purse seiners landed 59.3 per cent of their catches in Quebec, 11.0 per cent in New Brunswick, 1.0 per cent in Nova Scotia and 28.7 per cent in Newfoundland ports.

The comparative operational efficiency, for the five classes of vessels studied, is illustrated by data in Table 8.

Table 8 – Operational Efficiency of Quebec Vessels, 1968

Type of Vessel	1968 Averages						
	LOA	Landings per			Landed Value per		
		Man <sup>1</sup>	Trip <sup>2</sup>	Day at Sea <sup>2</sup>	Man	Trip	Day at Sea
	ft.	lb.	lb.	lb.	\$	\$	\$
<b>Draggers</b>							
Wooden side . . . . .	60	210,266	31,736	6,075	7,026	1,068	204
Wooden side . . . . .	65	314,216	55,317	9,369	9,295	1,627	277
Steel side . . . . .	82	381,182	88,504	14,528	10,277	2,336	381
Wooden side . . . . .	87	508,195	86,135	15,036	14,328	2,436	432
Herring seiners . . . . .	89	1,375,950	213,740	*	12,384	1,905	*

<sup>1</sup>Man per season.

<sup>2</sup>Per vessel.

\*Information not available.

The data show that the average 87-foot dragger had the best performance in output per man and per vessel day at sea in terms of quantity and value of landings. In these respects the 82-foot steel dragger came second. As will be seen later capital intensity per man engaged on draggers was a significant factor in increasing labour productivity.

The average 89-foot herring purse seiner recorded an average landing of 1,375,950 lb. of herring valued at \$12,384 per man for the season.

The relative fishing power of the vessels studied is shown by data in Table 9.

Table 9 – Average Rate of Output, Quebec, 1968

Type of Vessel	1968 Averages					
	LOA	Men in Crew	Vessel Output per Hour of Fishing		Average Output per Man-day at Sea	
			Landings	Value	Landings	Value
	ft.	no.	lb.	\$	lb.	\$
<b>Draggers</b>						
Wooden side . . . . .	60	3.8	467	16	1,606	54
Wooden side . . . . .	65	4.2	763	23	2,408	66
Steel side . . . . .	82	5.0	1,068	29	2,874	77
Wooden side . . . . .	87	5.1	1,213	35	2,991	86
Herring seiners . . . . .	89	8.0	*	*	*	*

\* Information not available.

For the draggers the average rate of vessel output per hour of fishing increases with the size of vessel, which ranged from 467 lb. for 60-footers to 1,213 lb. for the 87-footers. The average rate of output per man-day at sea ranged from 1,606 lb. for 60-footers to 2,991 lb. for 87-footers.

The relationship of crew value productivity to capital intensity and vessel size is another important measure of efficiency (Table 10).

**Table 10 – Relationship Between Investment and Output, Quebec, 1968**

Type of Vessel	LOA	Average Net Investment per Vessel	Averages per Man			Ratio of Landed Value per Man to	
			Net Investment	Landings	Landed Value	Net Investment	Total Investment
	ft.	\$	\$	lb.	\$	%	%
<b>Draggers</b>							
Wooden side . . . .	60	56,345	14,828	210,266	7,026	47.4	36.8
Wooden side . . . .	65	75,041	17,867	314,216	9,295	52.0	41.6
Steel side . . . . .	82	136,286	27,257	381,182	10,277	37.7	21.1
Wooden side . . . .	87	129,048	25,303	508,195	14,328	56.6	34.3
Herring seiners . . .	89	187,422	23,428	1,375,950	12,384	52.9	26.6

Capital intensity is measured by average net and total investment per man and crew value productivity is measured by landed value per man. The ratio of landed value per man to net and total investment per man measures the relationship of crew value productivity to capital intensity and vessel size.

The ratio of average landed value per man to average net investment per man in 1968, shows that for every \$100 invested the 60-foot dragger produced \$47.40 (\$36.80 for total investment) of fish. The least favourable ratio was recorded by the 82-foot steel draggers and the most favourable ratio by 87-foot wooden draggers. Capital intensity applied to different sizes of dragger fishing enterprises, was a significant variable in increasing or decreasing (as for 82-footers) labour productivity.

#### 4. Returns to Labour and Capital

##### (a) Returns to Labour

The net crew earnings are related to the crew value productivity as measured by value of landings less the crew expenses. The specialized crew members, captains, mates, engineers and cooks receive a net crew share plus additional pay.

The average net earnings per man per season in 1968 by crew category are detailed in Table 11.

The average take-home pay for the deckhands on 60-foot draggers was \$3,056 or \$23.33 per day at sea; for the 65-foot draggers the figures were \$3,764 and \$26.69; for the 82-foot steel draggers \$3,629 and \$26.88; and for the 87-foot wooden draggers \$5,957 and \$35.25 respectively. The 89-foot herring purse seiners reported average deckhand earnings at \$4,953. The captains, mates, engineers and cooks, where applicable, did somewhat better than the deckhands. For the captain-owners of 87-foot draggers, the sharing arrangements did not assign extra returns to the captain. However, the captains receive in addition the residual from the boat share.

Table 11 – Average Net Returns to Labour, Quebec Vessels, 1968

Item	Wooden Draggers	Wooden Draggers	Steel Draggers	Wooden Draggers	Herring Seiners
LOA in feet . . . . .	60	65	82	87	89
Men in crew . . . . .	3.8	4.2	5.0	5.1	8.0
Days at sea . . . . .	131	141	135	169	*
<b>Crew Category</b>	<b>Average Net Earnings per Man per Season<sup>1</sup></b>				
	\$	\$	\$	\$	\$
Captain . . . . .	3,056	4,418	5,698	5,957	9,906
Mate . . . . .					6,439
First engineer . . . . .					6,934
Cook . . . . .			4,179		5,944
Deckhand . . . . .	3,056	3,764	3,629	5,957	4,953
	<b>Average Net Earnings per Man per Day at Sea</b>				
	\$	\$	\$	\$	\$
Captain . . . . .	23.33	31.33	42.21	35.25	*
Mate . . . . .					*
First engineer . . . . .					*
Cook . . . . .			30.96		*
Deckhand . . . . .	23.33	26.69	26.88	35.25	*

\*Information not available.

<sup>1</sup>Job site earnings.

Trends in average net crew earnings are shown in Table 12. It is noted that the 16-year average for the 60-foot draggers was \$2,051 per man per season. The 10-year average for 65-footers was \$2,298 and the 6-year average for the 82-footers was \$2,866 for the deckhands. The 16-year average for the 60-footers is depressed by the lower earnings in earlier years – compared with 10-year average for 65-footers and 6-year average for the 82-footers. However, the 10-year and the 6-year average for the 60-footers compare favourably with those of the 65 and 82-foot draggers.

Table 12 – Trends in Average Net Crew Earnings, Quebec Draggers

Year	Boats in Sample	Days at Sea	Net Cash Crew Share Per Man Per Season
	no.	no.	\$
		Averages for 60-foot Draggers	
1953 . . . . .	4	70	775
1954 . . . . .	4	85	1,247
1955 . . . . .	5	100	1,889
1956 . . . . .	12	105	1,619
1957 . . . . .	17	119	1,358
1958 . . . . .	20	123	1,934
1959 . . . . .	20	126	2,354
1960 . . . . .	22	123	1,585
1961 . . . . .	24	117	1,947
1962 . . . . .	27	123	2,171
1963 . . . . .	25	106	2,146

NOTE: The 10-year  
average net cash  
crew share per man  
per season was \$2,399  
and the 6-year average  
\$2,656.

Table 12 – Trends in Average Net Crew Earnings, Quebec Draggers (Cont'd)

Year	Boats in Sample	Days at Sea	Net Cash Crew Share Per Man Per Season
1964.....	23	113	2,017
1965.....	14	130	3,018
1966.....	14	130	3,335
1967.....	15	107	2,385
1968.....	15	131	3,034
16-year Average....	—	113	2,051

Averages for 65-foot Draggers			
1959.....	4	121	1,525
1960.....	4	105	1,418
1961.....	4	109	1,612
1962.....	4	70	1,009
1963.....	10	97	1,512
1964.....	11	105	1,953
1965.....	6	124	2,837
1966.....	7	127	3,666
1967.....	5	127	3,556
1968.....	7	141	3,891
10-year Average...	—	113	2,298

NOTE: For the  
65-footers the  
6-year average was  
\$2,902.

Averages for 82-foot Draggers			
1963.....	5	102	1,730
1964.....	5	101	2,107
1965.....	5	123	2,879
1966.....	5	116	3,349
1967.....	4	98	2,940
1968.....	4	135	4,190
6-year Average....	—	112	2,866

#### (b) Returns to Capital

The average value of capital employed (investment from all sources as well as net investment by owner in vessel, gear and deck equipment) is detailed in Table 13 and this is related to the net earnings of the boat (profit per enterprise)<sup>1</sup>. No account is taken of opportunity cost (income foregone that might have been earned on owner's net worth in the best alternative types of investment).

On the average, 1968 was a favourable year for all classes of vessels studied. The 60-foot draggers reported an average profit of \$3,852 per vessel or 6.8 per cent on the average net investment by owners. The figures for 65-foot draggers were \$4,608 and 6.1 per cent. For 82-foot steel draggers the figures were \$3,147 and 2.3 per cent and for 87-foot wooden draggers \$11,335 and 8.8 per cent. The herring purse seiners reported an average profit of \$4,249 or 2.3 per cent on net investment.

<sup>1</sup>Book profit before income taxes, taking into account operating revenue and expenditures on the balance sheet, in other words, profit/loss statement.

Table 13 – Average Net Returns to Capital, Quebec Vessels, 1968

Type of Vessel	Averages per Vessel					
	LOA	Total Capital Cost	Federal Grant	Rented Equipment	Net Investment by Owner <sup>1</sup>	Net Profit or Loss
	ft.	\$	\$	\$	\$	\$
<b>Draggers</b>						
Wooden side . . . . .	60	72,650	16,305	—	56,345	3,852
Wooden side . . . . .	65	93,777	18,736	—	75,041	4,608
Steel side . . . . .	82	243,596	105,810	1,500	136,286	3,147
Wooden side . . . . .	87	212,964	83,916	—	129,048	11,335
Herring seiners . . . . .	89	371,816	184,394	—	187,422	4,249

<sup>1</sup>Private net worth plus borrowed capital to finance the asset.

All of the vessels included in the 1968 study did not make a profit as the following shows:

Type of Vessel	LOA	Vessels Making		Range in Profit	
		Loss	Profit	Lowest	Highest
	ft.	no.	no.	\$	\$
<b>Draggers</b>					
Wooden side	60	1	14	- 58	9,420
Wooden side	65	1	6	-2,151	10,642
Steel side	82	—	4	1,647	4,636
Wooden side	87	—	2	*	*
Herring seiners	89	1	1	*	*

\* – Less than three vessels in these groups.

The most profitable 60-foot dragger returned \$9,420 to the owners; the figure for the 65-footer was \$10,642 and for the 82-footer \$4,636.

Another measure of profitability is the rate of return on total capital investment, from all sources (rate of return on net investment by owners has already been discussed). The rates of returns are compared in Table 14.

Table 14 – Return on Total Assets Before Income Taxes  
Quebec, 1968

Type of Vessel	Average LOA	Boats in Sample	Average Rate of Return on Total Assets	Highest Rate of Return
	ft.	no.	%	%
<b>Draggers</b>				
Wooden side . . . . .	60	15	5.30	12.64
Wooden side . . . . .	65	7	4.91	11.78
Steel side . . . . .	82	4	1.29	1.89
Wooden side . . . . .	87	2	5.32	*
Herring seiners . . . . .	89	2	1.14	*

\*Less than three vessels in these groups.

The average rate of return per 60-foot dragger was 5.30 per cent on an average total asset of \$70,650 and the highest rate of return was 12.64 per cent. Figures for the 65-foot draggers were 4.91 and 11.78 per cent respectively. For the 82-foot steel draggers the average rate of return was 1.29 with the highest return of 1.89 per cent.

There were year-to-year variations in the profitability of the fishing vessels studied (Table 15). The year-to-year fluctuations can be expected for the primary fishing enterprises which are subject to a number of variables such as weather and oceanographic conditions, abundance of various species of fish, prices received for landed fish and costs of operating the vessels. In addition a very important factor, but which cannot be measured accurately is the management of the fishing vessels – principally by the captain.

Table 15 – Trends in Average Profit, Quebec Draggers

Year	Boats in Sample	Days at Sea	Gross Receipts	Investment per Dragger	Net Profit or Loss per Dragger
	no.	no.	\$	\$	\$
<b>Averages for 60-foot Draggers</b>					
1953	4	70	8,822	37,931	978
1954	4	85	14,921	38,013	803
1955	5	100	20,223	43,292	3,706
1956	12	105	19,163	45,144	2,978
1957	17	119	17,616	44,805	867
1958	20	123	22,536	45,481	1,979
1959	20	126	25,462	45,999	2,615
1960	22	123	19,542	48,313	93
1961	24	117	20,563	51,275	1,658
1962	27	123	22,423	54,764	1,996
1963	25	106	21,309	59,078	1,675
1964	23	113	19,481	62,817	- 103
1965	14	130	27,550	67,362	1,066
1966	14	130	29,834	68,623	3,698
1967	15	107	22,208	71,066	1,410
1968	15	131	26,698	72,650	3,852
16-year average . . .	—	113	21,147	53,538	1,829
<b>Averages for 65-foot Draggers</b>					
1959	4	121	20,800	65,713	316
1960	4	105	19,900	67,538	-974
1961	4	109	20,965	67,538	1,469
1962	4	70	13,789	76,728	-2,001
1963	10	97	17,933	86,255	1,355
1964	11	105	21,777	88,520	804
1965	6	124	30,376	89,089	2,403
1966	7	127	36,372	89,098	3,511
1967	5	127	35,100	91,224	2,153
1968	7	141	39,040	93,777	4,608
10-year average . . .	—	113	25,605	81,548	1,364
<b>Averages for 82-foot Draggers</b>					
1963	5	102	24,231	218,202	- 634
1964	5	101	28,903	241,185	-8,135
1965	5	123	44,273	242,196	- 930
1966	5	116	47,766	243,280	-1,112
1967	4	98	47,853	242,846	1,134
1968	4	135	51,387	243,596	3,147
6-year average . . .	—	112	40,736	238,551	-1,088

For the three classes of draggers studied for a number of years, the 1968 average profit on total assets was above that of 1967 and well above the long-term average.

The Fisheries Division of the Quebec Department of Industry and Commerce paid the total cost of marine insurance on fishermen-owned vessels and 50 per cent of the cost for company-owned vessels. The department also advanced interest free loans to these fishing enterprises (for further details see Table 15, in Part II. With this financial assistance the average enterprise studied recorded a profit after deducting depreciation charges. However, three of the 30 enterprises recorded a loss on their 1968 operations.

Under normal circumstances the operating profit (net cash boat share) of an enterprise must be large enough to cover depreciation charges and required debt repayments. The average net cash boat shares for the five classes of vessels are detailed in Table 16.

**Table 16 – Distribution of Average Gross Receipts  
Quebec Vessels, 1968**

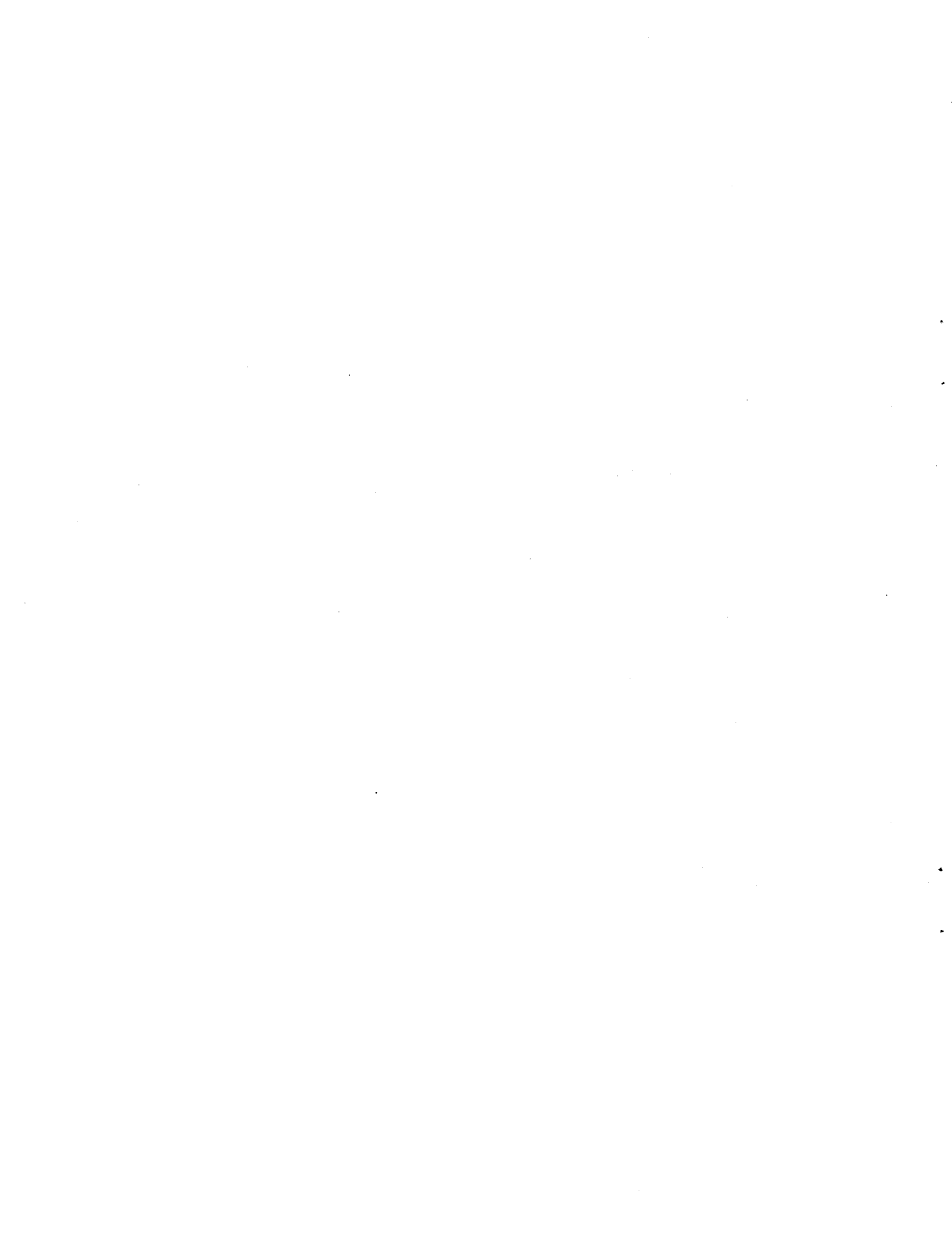
Type of Vessel	Wooden Draggers	Wooden Draggers	Steel Draggers	Wooden Draggers	Herring Seiners
Size class	60-foot	65-foot	82-foot	87-foot	89-foot
Number of vessels	15	7	4	2	2
	\$	\$	\$	\$	\$
<b>Average Gross Cash Receipts . . . . .</b>	<b>26,698</b>	<b>39,040</b>	<b>51,387</b>	<b>73,074</b>	<b>99,068</b>
<b>Applied to:</b>					
(1) Total Cash expenditures . . . . .	7,303	12,669	17,296	22,611	33,956
(2) Net cash crew share . . . . .	11,531	16,370	20,945	29,787	49,038
(3) Net cash boat share . . . . .	7,864	10,001	13,146	20,676	16,074
	%	%	%	%	%
<b>Average Gross Cash Receipts . . . . .</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Applied to:</b>					
(1) Total Cash expenditures . . . . .	27.4	32.5	33.7	30.9	34.3
(2) Net cash crew share . . . . .	43.2	41.9	40.7	40.8	49.5
(3) Net cash boat share . . . . .	29.4	25.6	25.6	28.3	16.2

The gross cash receipts are distributed to "total cash expenditures" and to "net cash crew shares", leaving a residual designated as "net cash boat share". However, the owners of the enterprises do not actually receive all of the "net cash boat share" in cash. The Fisheries Division retires the loans by having the buyers of fish deduct up to 14 per cent of the sale value of fish for every landing. Under these circumstances the owners of the fishing enterprises receive the residual of the "net cash boat share". The actual amounts deducted and the residual boat shares received are detailed in Table 17.

The data show that for the 60-foot draggers the average net cash boat share was \$7,864. The deduction for debt to the provincial Fisheries Division was \$3,812; leaving a residual cash boat share to the owner in the amount of \$4,052. Out of this \$539 was paid to satisfy other debts leaving a balance of \$3,513 to offset depreciation charges of \$4,012. Most of the deductions for debts to the provincial government are for the retirement of capital debt incurred when the vessel was purchased. Therefore, the owner of the vessel by paying this debt increases his capital equity in the vessel. As noted in some cases the residual net cash boat share is not large enough to satisfy other creditors and depreciation charges. In these cases all or part of the depreciation charges must be deferred.

**Table 17 – Average Debt Repayment and Cash Boat Share  
Quebec Vessels, 1968**

Type of Vessel	Wooden Draggers	Wooden Draggers	Steel Draggers	Wooden Draggers	Herring Seiners
Size class	60-foot	65-foot	82-foot	87-foot	89-foot
Number of vessels	15	7	4	2	2
	\$	\$	\$	\$	\$
<b>Averages per vessel</b>					
(1) Net cash boat share . . . . .	7,864	10,001	13,146	20,676	16,074
(2) Deductions for debts to government..	3,812	5,436	7,222	10,235	12,000
(3) Residual net cash boat share . . . . .	4,052	4,565	5,924	10,441	4,074
(4) Other debts paid . . . . .	539	523	628	3,838	–
(5) Depreciation charges . . . . .	4,012	5,393	9,999	9,341	11,825



**PART II**

**DETAILED ANALYSIS OF 1968 ACCOUNTS**



**Table 1 – Description of 103 Boats  
1968 Study of Fishing Enterprises  
Atlantic Provinces**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels								Steel Vessels		
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet <sup>1</sup> . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
age in years . . . . .	1.8	1.4	8.0	4.8	6.2	1.7	3.0	6.3	3.5	4.3	4.5	4.0	2.5
registered length in feet . . . . .	36.1	134.5	48.1	52.2	88.8	61.2	96.0	66.2	82.0	103.9	115.3	131.8	139.5
breadth in feet . . . . .	12.0	31.6	15.8	17.6	23.4	20.4	24.5	19.0	21.1	25.2	24.6	26.4	33.0
depth in feet . . . . .	4.8	16.9	6.1	7.6	10.2	10.0	11.3	9.1	10.4	13.3	11.5	11.8	16.4
gross tonnage . . . . .	14.6	587.3	35.5	47.9	139.9	77.4	181.7	93.0	133.9	228.0	289.1	359.0	628.7
net tonnage . . . . .	10.0	279.2	26.5	32.6	81.2	36.6	98.2	53.7	64.0	99.6	100.0	121.8	282.0
shaft H.P. of main engine . . . . .	62	1,449	84	272	485	365	698	293	368	723	668	765	1,135
speed of boat in knots . . . . .	8	13	10	11	10	10	11	9	10	10	10	11	11
Number of Boats with													
diesel engine . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
depth sounder . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
radio-telephone . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
loran . . . . .	—	2	—	2	4	3	3	2	4	3	4	3	4
radar . . . . .	—	7	1	4	4	3	3	3	4	3	4	3	4
navigator . . . . .	—	7	2	3	4	—	1	—	—	3	4	3	4
fish finder . . . . .	—	4	—	—	—	3	3	1	—	1	3	3	4

**Table 1 – Description of 103 Boats (cont'd)**  
**1968 Study of Fishing Enterprises**  
**Atlantic Provinces**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet <sup>1</sup> . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
<b>Average per Boat</b>												
age in years . . . . .	17.0	16.0	1.5	3.7	11.0	7.8	1.5	4.5	4.6	1.5	6.0	2.5
registered length in feet . . . . .	46.0	56.8	68.4	81.7	56.3	62.0	84.4	56.8	60.8	80.2	75.3	83.6
breadth in feet . . . . .	13.9	16.7	20.5	21.4	16.2	17.6	21.3	16.4	17.7	21.7	21.7	22.0
depth in feet . . . . .	6.6	7.8	9.8	10.7	7.7	7.6	11.2	7.5	7.8	10.4	10.6	10.8
gross tonnage . . . . .	26.0	43.5	103.5	122.5	51.7	69.0	171.1	48.6	67.3	123.4	126.8	151.4
net tonnage . . . . .	22.3	37.3	51.0	63.6	35.2	50.8	54.8	32.7	43.0	60.7	61.3	63.9
shaft H.P. of main engine . . . . .	141	135	380	509	151	175	765	225	330	505	310	486
speed of boat in knots . . . . .	10	11	12	10	10	10	10	9	10	11	10	10
<b>Number of Boats with</b>												
diesel engine . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
depth sounder . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
radio-telephone . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
loran . . . . .	1	1	2	5	2	5	4	1	2	2	4	2
radar . . . . .	1	1	2	6	2	4	4	—	4	2	3	2
navigator . . . . .	—	—	—	3	—	—	4	—	—	—	3	—
fish finder . . . . .	—	—	—	—	1	1	—	—	—	—	—	2

<sup>1</sup>"Average length overall in feet" classification is rounded off to the nearest whole foot.

**Table 2 – Average Capital Investment for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels						Steel Vessels				
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Average Capital <sup>1</sup> Cost per Boat													
original . . . . .	12,200	1,108,349	20,975	54,495	162,199	155,590	375,476	77,379	151,055	290,833	547,236	569,500	912,655
Total up to the end of 1968 of this accounted by:	13,390	1,108,349	31,715	55,630	167,512	155,857	407,579	95,916	159,913	296,332	550,499	569,500	918,574
(1) Hull													
original . . . . .	6,292	828,591	11,210	25,028	100,406	80,250	244,669	51,176	107,150	211,958	422,200	431,038	675,761
rebuilt . . . . .	46	—	—	—	2,092	—	6,913	4,232	1,063	1,755	225	—	4,738
total to end of 1968 . . . . .	6,338	828,591	11,210	25,028	102,498	80,250	251,582	55,408	108,213	213,713	422,425	431,038	680,499
(2) Engine													
original . . . . .	3,603	152,514	3,500	15,150	33,625	23,352	58,322	13,736	25,172	49,135	64,367	72,330	129,948
rebuilt . . . . .	—	—	284	175	—	—	—	3,148	762	—	—	—	—
total to end of 1968 . . . . .	3,603	152,514	3,784	15,325	33,625	23,352	58,322	16,884	25,934	49,135	64,367	72,330	129,948
(3) Electronic Equipment <sup>2</sup> . . . . .	1,209	31,779	4,512	8,083	11,298	16,984	16,646	8,560	14,552	14,300	19,106	8,575	26,172
(4) Winch and Gallows or Gurdy . . . . .	284	57,458	2,289	4,088	8,440	8,000	30,000	3,050	2,235	13,152	25,980	39,533	62,885
(5) Miscellaneous <sup>3</sup> . . . . .	254	15,170	—	965	7,283	1,181	15,070	1,369	—	1,094	10,437	14,684	—
(6) Sub-total (1 to 5) . . . . .	11,688	1,085,512	21,795	53,489	163,144	129,767	371,620	85,271	150,934	291,394	542,315	566,160	899,504
(7) Fishing Gear . . . . .	1,702	22,837	9,920	2,141	4,368	26,090	35,959	10,645	8,979	4,938	8,184	3,340	19,070

**Table 2 -- Average Capital Investment for 103 Fishing Enterprises (Cont'd)  
Atlantic Provinces -- 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden	Steel		Wooden			Steel	
	Crabbers	Side Draggers			Side Draggers	Side Draggers		Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Average Capital <sup>1</sup> Cost per Boat												
original . . . . .	28,328	41,722	157,310	193,338	52,178	66,772	350,035	69,796	89,746	212,965	215,048	371,816
Total up to the end of 1968 of this accounted by:	47,378	62,838	157,310	197,008	55,295	71,843	352,446	72,650	93,777	212,965	243,596	371,816
(1) Hull												
original . . . . .	17,958	22,083	89,216	117,535	26,192	38,787	264,203	46,991	61,959	119,505	172,579	259,422
rebuilt . . . . .	9,180	13,225	—	519	125	—	—	1,540	103	—	21,461	—
total to end of 1968 . . . . .	27,138	35,308	89,216	118,054	26,317	38,787	264,203	48,531	62,062	119,505	194,040	259,422
(2) Engine												
original . . . . .	6,380	12,731	32,775	42,256	15,678	13,230	53,104	13,166	17,072	53,760	26,031	43,880
rebuilt . . . . .	2,985	722	—	618	—	170	—	644	892	—	1,658	—
total to end of 1968 . . . . .	9,365	13,453	32,775	42,874	15,678	13,400	53,104	13,810	17,964	53,760	27,689	43,880
(3) Electronic Equipment <sup>2</sup> . . . . .	3,300	5,978	13,410	14,440	6,250	7,204	13,995	3,998	6,521	16,300	10,198	16,730
(4) Winch and Gallows or Gurdy . . . . .	1,487	2,616	9,190	9,824	3,200	4,306	13,733	3,316	3,424	18,900	7,521	22,020
(5) Miscellaneous <sup>3</sup> . . . . .	170	283	6,709	4,221	2,497	2,809	2,411	148	706	—	1,188	—
(6) Sub-total (1 to 5) . . . . .	41,460	57,638	151,300	189,413	53,942	66,506	347,446	69,803	90,677	208,465	240,636	342,052
(7) Fishing Gear . . . . .	5,918	5,200	6,010	7,595	1,353	5,337	5,000	2,847	3,100	4,500	2,960	29,764

<sup>1</sup>Equipped with fishing gear and ready for fishing.

<sup>2</sup>Electronic equipment includes sounder, radio-telephone, loran, navigator, fish finder and other related equipment.

<sup>3</sup>Miscellaneous includes delco and related deck equipment.

**Table 2(a) – Percentage Distribution of Average Capital Investment for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels							Steel Vessels			
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners	Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers	Stern Trawlers		
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
	%	%	%	%	%	%	%	%	%	%	%	%	%
<b>Average Capital<sup>1</sup> Cost per Boat</b>													
(1) Hull													
original . . . . .	47.0	74.7	35.4	45.0	59.9	51.5	60.0	53.4	67.0	71.5	76.7	75.7	73.6
rebuilt . . . . .	0.4	—	—	—	1.3	—	1.7	4.4	0.7	0.6	—	—	0.5
total to end of 1968 . . . . .	47.4	74.7	35.4	45.0	61.2	51.5	61.7	57.8	67.7	72.1	76.7	75.7	74.1
(2) Engine													
original . . . . .	26.9	13.8	11.0	27.3	20.1	15.0	14.3	14.3	15.7	16.6	11.7	12.7	14.2
rebuilt . . . . .	—	—	.9	0.3	—	—	—	3.3	0.5	—	—	—	—
total to end of 1968 . . . . .	26.9	13.8	11.9	27.6	20.1	15.0	14.3	17.6	16.2	16.6	11.7	12.7	14.2
(3) Electronic Equipment . . . . .	9.0	2.8	14.2	14.5	6.8	10.9	4.1	8.9	9.1	4.8	3.5	1.5	2.8
(4) Winch and Gallows or Gurdy . . . . .	2.1	5.2	7.2	7.4	5.0	5.1	7.4	3.2	1.4	4.4	4.7	6.9	6.8
(5) Miscellaneous . . . . .	1.9	1.4	—	1.7	4.3	0.8	3.7	1.4	—	0.4	1.9	2.6	—
(6) Sub-total (1 to 5) . . . . .	87.3	97.9	68.7	96.2	97.4	83.3	91.2	88.9	94.4	98.3	98.5	99.4	97.9
(7) Fishing Gear . . . . .	12.7	2.1	31.3	3.8	2.6	16.7	8.8	11.1	5.6	1.7	1.5	0.6	2.1
<b>Total . . . . .</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

**Table 2(a) – Percentage Distribution of Average Capital Investment for 103 Fishing Enterprises (cont'd)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
Average Capital <sup>1</sup> Cost per Boat	%	%	%	%	%	%	%	%	%	%	%	%
(1) Hull												
original . . . . .	37.9	35.2	56.7	59.6	47.4	54.0	75.0	64.7	66.1	56.1	70.8	69.8
rebuilt . . . . .	19.4	21.0	—	0.3	0.2	—	—	2.1	0.1	—	8.8	—
total to end of 1968 . . . . .	57.3	56.2	56.7	59.9	47.6	54.0	75.0	66.8	66.2	56.1	79.6	69.8
(2) Engine												
original . . . . .	13.5	20.3	20.8	21.5	28.4	18.4	15.0	18.1	18.2	25.2	10.7	11.8
rebuilt . . . . .	6.3	1.1	—	0.3	—	0.3	—	0.9	0.9	—	0.7	—
total to end of 1968 . . . . .	19.8	21.4	20.8	21.8	28.4	18.7	15.0	19.0	19.1	25.2	11.4	11.8
(3) Electronic Equipment . . . . .	7.0	9.4	8.5	7.3	11.3	10.0	4.0	5.5	7.0	7.7	4.2	4.5
(4) Winch and Gallows or Gurdy . . . . .	3.1	4.2	5.9	5.0	5.8	6.0	3.9	4.6	3.6	8.9	3.1	5.9
(5) Miscellaneous . . . . .	0.3	0.5	4.3	2.1	4.5	3.9	0.7	0.2	0.8	—	0.5	—
(6) Sub-total (1 to 5) . . . . .	87.5	91.7	96.2	96.1	97.6	92.6	98.6	96.1	96.7	97.9	98.8	92.0
(7) Fishing Gear . . . . .	12.5	8.3	3.8	3.9	2.4	7.4	1.4	3.9	3.3	2.1	1.2	8.0
Total . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<sup>1</sup> Total capital cost up to December 31,1968. ∅ Less than one-half of 0.1%.												

**Table 3 — Method of Financing Capital Investment for 103 Fishing Enterprises  
Atlantic Provinces — 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels					Steel Vessels					
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats. . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Average per Boat</b>													
Total Capital Cost <sup>1</sup> which was financed by . . .	13,390	1,108,349	31,715	55,630	167,512	155,857	407,579	95,916	159,913	296,332	550,499	569,500	918,574
(1) Fishermen													
cash down . . . . .	4,141	402,071	3,780	9,578	42,922	45,582	83,643	14,405	24,795	45,647	224,484	113,100	246,311
additional payments . . . . .	1,190	—	8,493	1,135	2,274	267	9,190	17,529	8,858	2,347	424	—	4,738
sub-total . . . . .	5,331	402,071	12,273	10,713	45,196	45,849	92,833	31,934	33,653	47,994	224,908	113,100	251,049
(2) Boat Construction Assistance													
federal assistance . . . . .	2,800	542,172	5,882	11,984	58,935	38,850	148,130	25,715	53,891	107,057	268,337	282,750	438,172
provincial assistance . . . . .	2,323	—	—	—	—	—	11,212	—	—	—	—	—	—
sub-total . . . . .	6,123	542,172	5,882	11,984	58,935	38,850	159,342	25,715	53,891	107,057	268,337	282,750	438,172
(3) FLB and Other Loans													
original . . . . .	1,936	157,143	11,313	28,883	55,992	71,158	149,327	36,259	69,587	133,463	51,290	169,650	218,239
additional . . . . .	—	—	—	—	1,444	—	489	—	—	360	302	—	—
sub-total . . . . .	1,936	157,143	11,313	28,883	57,436	71,158	149,816	36,259	69,587	133,823	51,592	169,650	218,239
(4) Rented													
original . . . . .	—	6,963	—	4,050	4,350	—	5,588	1,000	2,782	4,666	3,125	4,000	9,933
additional . . . . .	—	—	2,247	—	1,595	—	—	1,008	—	2,792	2,537	—	1,181
sub-total . . . . .	—	6,963	2,247	4,050	5,945	—	5,588	2,008	2,782	7,458	5,662	4,000	11,114
Cash down borrowed <sup>2</sup> . . . . .	1,618	—	—	1,450	—	19,633	16,933	—	—	—	10,000	—	—
Total debt at time of purchase <sup>3</sup> . . . . .	3,554	157,143	11,313	30,333	55,992	90,791	166,260	36,259	69,587	133,463	61,290	169,650	218,239
Debt <sup>4</sup> outstanding as of December 31, 1968 . .	1,806	151,429	3,819	10,770	18,683	82,437	135,765	35,693	45,804	71,658	57,842	81,432	170,954

**Table 3 – Method of Financing Capital Investment for 103 Fishing Enterprises (Cont'd)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Average per Boat</b>												
Total Capital Cost <sup>1</sup> which was financed by . .	47,378	62,838	157,310	197,008	55,295	71,843	352,446	72,650	93,777	212,964	243,596	371,816
(1) Fishermen												
cash down . . . . .	3,367	5,500	5,000	10,717	7,874	8,343	21,875	6,314	8,039	12,963	10,349	14,040
additional payments . . . . .	1,803	8,861	—	682	2,111	609	241	382	1,629	—	1,799	—
sub-total . . . . .	5,170	14,361	5,000	11,399	9,985	8,952	22,116	6,696	9,668	12,963	12,148	14,040
(2) Boat Construction Assistance												
federal assistance . . . . .	4,301	7,206	58,129	72,433	8,529	11,966	168,750	16,305	18,736	83,916	105,810	148,394
provincial assistance . . . . .	4,410	2,700	—	—	—	—	—	—	—	—	—	—
sub-total . . . . .	8,711	9,906	58,129	72,433	8,529	11,966	168,750	16,305	18,736	83,916	105,810	184,394
(3) FLB and Other Loans												
original . . . . .	20,661	29,017	94,181	110,188	35,775	44,463	156,410	47,177	62,971	116,085	98,889	173,382
additional . . . . .	12,836	9,554	—	1,488	1,006	174	2,170	2,472	2,402	—	25,249	—
sub-total . . . . .	33,497	38,571	94,181	111,676	36,781	44,637	158,580	49,649	65,373	116,085	124,138	173,382
(4) Rented												
original . . . . .	—	—	—	—	—	2,000	3,000	—	—	—	—	—
additional . . . . .	—	—	—	1,500	—	4,288	—	—	—	—	1,500	—
sub-total . . . . .	—	—	—	1,500	—	6,288	3,000	—	—	—	1,500	—
Cash down borrowed <sup>2</sup> . . . . .	530	—	2,000	8,000	3,750	2,900	—	5,885	5,490	6,715	7,382	—
Total debt at time of purchase <sup>3</sup> . . . . .	21,191	29,017	96,181	118,188	39,525	47,363	156,410	53,062	68,461	122,800	106,271	173,382
Debt <sup>4</sup> outstanding as of December 31, 1968	19,734	34,664	90,919	110,271	—	29,425	150,812	39,628	48,138	109,881	93,182	150,793

<sup>1</sup> Total capital cost up to December 31, 1968.

<sup>2</sup> The average amount borrowed of the "cash down" payment required at the time of the original purchase.

<sup>3</sup> Includes the cash down borrowed.

<sup>4</sup> Total debt outstanding includes debts to FLB, processors, suppliers and others.

**Table 3(a) — Percentage Distribution of Sources of Capital Investment for 103 Fishing Enterprises  
Atlantic Provinces — 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels							Steel Vessels			
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
	%	%	%	%	%	%	%	%	%	%	%	%	%
Total Capital Cost which was financed by . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
(1) Fishermen . . . . .													
cash down . . . . .	30.9	36.3	11.9	17.2	25.6	29.2	20.5	15.1	15.5	15.4	40.8	19.9	26.8
additional payments . . . . .	8.9	—	26.8	2.1	1.4	0.2	2.3	18.2	5.5	0.8	0.1	—	0.5
sub-total . . . . .	39.8	36.3	38.7	19.3	27.0	29.4	22.8	33.3	21.0	16.2	40.9	19.9	27.3
(2) Boat Construction Assistance													
federal assistance . . . . .	28.4	48.9	18.5	21.5	35.2	24.9	38.2	26.8	33.7	36.1	48.7	49.6	47.7
provincial assistance . . . . .	17.3	—	—	—	—	—	0.9	—	—	—	—	—	—
sub-total . . . . .	45.7	48.9	18.5	21.5	35.2	24.9	39.1	26.8	33.7	36.1	48.7	49.6	47.7
(3) FLB and Other Loans													
original . . . . .	14.5	14.2	35.7	51.9	33.4	45.7	36.6	37.8	43.5	45.0	9.3	29.8	23.8
additional . . . . .	—	—	—	—	0.9	—	0.1	—	—	0.2	0.1	—	—
sub-total . . . . .	14.5	14.2	35.7	51.9	34.3	45.7	36.7	37.8	43.5	45.2	9.4	29.8	23.8
(4) Rented													
original . . . . .	—	0.6	—	7.3	2.6	—	1.4	1.0	1.8	1.6	0.6	0.7	1.1
additional . . . . .	—	—	7.1	—	0.9	—	—	1.1	—	0.9	0.4	—	0.1
sub-total . . . . .	—	0.6	7.1	7.3	3.5	—	1.4	2.1	1.8	2.5	1.0	0.7	1.2
Percent of cash down borrowed . . . . .	39.1	—	—	15.1	—	43.1	20.2	—	—	—	4.5	—	—
Debt as a percent of original cost . . . . .	29.1	14.2	53.9	55.7	34.5	58.4	44.3	46.9	46.1	45.9	11.2	29.8	23.9
Boat construction grant as % of original cost. . .	50.2	48.9	28.0	22.0	36.3	25.0	42.4	33.2	35.7	36.8	49.0	49.6	48.0
Debt outstanding as of Dec. 31/68 as percent of total cost . . . . .	13.5	13.7	12.0	19.4	11.2	52.9	33.3	37.2	28.6	24.2	10.5	14.3	18.6

**Table 3(a) - Percentage Distribution of Sources of Capital Investment for 103 Fishing Enterprises (cont'd)**  
**Atlantic Provinces - 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	%	%	%	%	%	%	%	%	%	%	%	%
Total Capital Cost which was financed by . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
(1) Fishermen												
cash down . . . . .	7.1	8.7	3.2	5.4	14.3	11.6	6.2	8.7	8.6	6.1	4.3	3.8
additional payments . . . . .	3.8	14.1	—	0.4	3.8	0.9	0.1	0.5	1.7	—	0.7	—
sub-total . . . . .	10.9	22.8	3.2	5.8	18.1	12.5	6.3	9.2	10.3	6.1	5.0	3.8
(2) Boat Construction Assistance												
federal assistance . . . . .	9.1	11.5	36.9	36.7	15.4	16.6	47.9	22.5	20.0	39.4	43.4	49.6
provincial assistance . . . . .	9.3	4.3	—	—	—	—	—	—	—	—	—	—
sub-total . . . . .	18.4	15.8	36.9	36.7	15.4	16.6	47.9	22.5	20.0	39.4	43.4	49.6
(3) FLB and Other Loans												
original . . . . .	43.6	46.2	59.9	56.0	64.7	61.9	44.4	64.9	67.1	54.5	40.6	46.6
additional . . . . .	27.1	15.2	—	0.7	1.8	0.2	0.6	3.4	2.6	—	10.4	—
sub-total . . . . .	70.7	61.4	59.9	56.7	66.5	62.1	45.0	68.3	69.7	54.5	51.0	46.6
(4) Rented												
original . . . . .	—	—	—	—	—	2.8	0.8	—	—	—	—	—
additional . . . . .	—	—	—	0.8	—	6.0	—	—	—	—	0.6	—
sub-total . . . . .	—	—	—	0.8	—	8.8	0.8	—	—	—	0.6	—
Percentage of cash down borrowed . . . . .	15.7	—	40.0	74.6	47.6	34.8	—	93.2	68.3	51.8	71.3	—
Debts as a percent of original cost . . . . .	74.8	69.5	61.1	61.1	75.8	70.3	44.7	76.0	76.3	57.7	49.4	46.6
Boat construction grant as % of original cost . .	30.8	23.7	37.0	37.5	15.4	16.7	47.9	23.1	20.0	39.4	43.4	49.6
Debt outstanding as of Dec. 31/68 as percent of total cost . . . . .	41.7	55.2	57.8	56.0	—	41.0	42.8	54.5	51.3	51.6	38.2	40.6

**Table 4 – Ownership of Capital for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels							Steel Vessels			
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
<b>Degree of Ownership<sup>1</sup> of boat</b>													
number with 2.5% ownership . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	4
“ “ 5.0% “ . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	2
“ “ 10.0% “ . . . . .	—	—	—	—	5	—	—	—	—	—	—	—	—
“ “ 15.0% “ . . . . .	—	—	—	—	3	—	—	—	—	—	—	—	—
“ “ “ 20.0% “ . . . . .	—	—	—	—	4	5	—	—	—	—	—	—	—
“ “ 24.5% “ . . . . .	—	—	—	—	2	—	—	—	—	—	—	—	—
“ “ 25.0% “ . . . . .	—	—	—	—	1	—	—	—	1	—	—	—	2
“ “ 30.0% “ . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	1
“ “ 33.3% “ . . . . .	—	—	—	—	—	3	1	—	—	—	—	—	—
“ “ 50.0% “ . . . . .	4	—	—	—	—	—	—	—	2	—	—	—	—
“ “ 51.0% “ . . . . .	—	—	—	—	1	—	—	—	—	—	—	—	—
“ “ 66.7% “ . . . . .	—	—	—	—	—	—	1	—	—	—	—	—	—
“ “ 75.0% “ . . . . .	—	—	—	—	—	—	—	—	1	—	—	—	—
“ “ 100.0% “ . . . . .	3	7	2	4	1	1	2	3	2	3	4	3	3
Total number of Owners . . . . .	7	7	2	4	17	9	4	3	6	3	4	3	12
Of these manager-owners <sup>2</sup> and/or silent partners . . . . .	—	7	2	1	13	1	3	—	2	2	4	3	6
Total number of Men Fishing . . . . .	15	104	4	12	62	18	23	18	30	31	57	49	66
% of these owners . . . . .	46.7	—	—	25.0	6.5	44.4	4.3	16.7	13.3	3.2	—	—	9.1
% of these non-owners <sup>3</sup> . . . . .	53.3	100.0	100.0	75.0	93.5	55.6	95.7	83.3	86.7	96.8	100.0	100.0	90.9

**Table 4 – Ownership of Capital for 103 Fishing Enterprises (cont'd)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
numbers of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
Degree of Ownership <sup>1</sup> of boat												
number with 2.5% ownership . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
“ “ 5.0% “ . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
“ “ 10.0% “ . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
“ “ 15.0% “ . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
“ “ 20.0% “ . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
“ “ 24.5% “ . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
“ “ 25.0% “ . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
“ “ 30.0% “ . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
“ “ 33.3% “ . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
“ “ 50.0% “ . . . . .	—	2	—	—	—	—	—	—	—	—	—	—
“ “ 51.0% “ . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
“ “ 66.7% “ . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
“ “ 75.0% “ . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
“ “ 100.0% “ . . . . .	3	1	2	6	2	5	4	15	7	2	4	2
Total number of Owners . . . . .	3	3	2	6	2	5	4	15	7	2	4	2
Of these manager-owners <sup>2</sup> and/or silent partners . . . . .	—	—	—	1	—	1	4	—	1	1	1	2
Total number of Men Fishing . . . . .	8	7	10	34	8	18	37	57	29	10	20	16
% of these owners . . . . .	37.5	42.9	20.0	14.7	25.0	22.2	—	26.3	20.7	10.0	15.0	—
% of these non-owners <sup>3</sup> . . . . .	62.5	57.1	80.0	85.3	75.0	77.8	100.0	73.7	79.3	90.0	85.0	100.0

<sup>1</sup>Ownership of capital is a basis for partnership, thus with 25% ownership, there are four partners per enterprise.

<sup>2</sup>“Manager-Owners” and “Silent Partners”, are not part of fishing crews and do not actively engage in fishing.

<sup>3</sup>“Non-owners” are usually called “sharemen” or “deckhands”. In certain cases they may be skippers (captains) of boats, boatswains, engineers, cooks, mates, net-men etc.

**Table 5 – Average Fishing Activities for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels								Steel Vessels		
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
<b>Fishing Period</b>													
first date sailed . . . . .	May 1	Jan. 1	May 11	Mar. 21	Jan. 15	Jan. 15	Jan. 1	Jan. 16	Jan. 6	Jan. 1	Jan. 1	Jan. 3	Jan. 1
last date landed . . . . .	Oct. 21	Dec. 23	Dec. 28	Dec. 21	Dec. 21	Dec. 19	Dec. 21	Sept. 30	Dec. 15	Dec. 23	Dec. 23	Dec. 23	Dec. 23
<b>Average per Boat</b>													
number of trips . . . . .	63	28	47	38	15	59	63	16	15	25	27	29	27
boat-days at sea . . . . .	63	267	54	80	187	*	173	106	228	207	249	264	253
boat-days fished . . . . .	63	212	54	78	163	*	91	85	150	187	194	213	210
man-days at sea . . . . .	187	3,960	118	242	2,891	*	1,356	618	1,707	2,132	3,565	4,297	4,208
man-days ashore <sup>1</sup> . . . . .	—	—	59	111	175	*	83	137	196	309	429	617	555
total man-days worked . . . . .	187	3,960	177	353	3,066	*	1,439	755	1,903	2,441	3,994	4,914	4,763
<b>Hours Actual Fishing</b>													
dragging . . . . .	—	3,148	—	560	2,839	—	—	—	—	2,786	2,835	3,112	3,224
crabbing . . . . .	—	—	276	—	—	—	—	—	—	—	—	—	—
Danish seining . . . . .	—	—	86	—	—	—	—	—	—	—	—	—	—
Scottish seining . . . . .	—	—	—	—	—	—	—	286	—	—	—	—	—
purse seining . . . . .	—	—	—	—	—	*	427	—	—	—	—	—	—
gillnetting . . . . .	169	—	—	—	—	—	—	—	—	—	—	—	—
longlining for groundfish . . . . .	315	—	—	—	—	—	—	—	471	—	—	—	—
longlining for swordfish . . . . .	—	—	—	—	—	—	—	574	1,637	—	—	—	—
total hours fishing . . . . .	484	3,148	362	560	2,839	*	427	860	2,108	2,786	2,835	3,112	3,224
<b>Number of Sets for</b>													
dragging . . . . .	—	1,599	—	277	4,810	—	—	—	—	1,105	1,444	1,906	1,965
crabbing . . . . .	—	—	45	—	—	—	—	—	—	—	—	—	—
Danish seining . . . . .	—	—	16	—	—	—	—	—	—	—	—	—	—
Scottish seining . . . . .	—	—	—	—	—	—	—	122	—	—	—	—	—
purse seining . . . . .	—	—	—	—	—	*	129	—	—	—	—	—	—
gillnetting . . . . .	21	—	—	—	—	—	—	—	—	—	—	—	—
longlining for groundfish . . . . .	41	—	—	—	—	—	—	—	47	—	—	—	—
longlining for swordfish . . . . .	—	—	—	—	—	—	—	50	116	—	—	—	—

**Table 5 – Average Fishing Activities for 103 Fishing Enterprises (cont'd)  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels								Steel Vessels		
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
<b>Duration of Sets in Hours</b>													
dragging . . . . .	—	2.0	—	2.0	0.6	—	—	—	—	2.2	2.0	1.6	1.6
crabbing . . . . .	—	—	6.1	—	—	—	—	—	—	—	—	—	—
Danish seining . . . . .	—	—	5.5	—	—	—	—	—	—	—	—	—	—
Scottish seining . . . . .	—	—	—	—	—	—	—	2.3	—	—	—	—	—
purse seining . . . . .	—	—	—	—	—	*	3.3	—	—	—	—	—	—
gillnetting . . . . .	7.9	—	—	—	—	—	—	—	—	—	—	—	—
longlining for groundfish . . . . .	7.6	—	—	—	—	—	—	—	10.0	—	—	—	—
longlining for swordfish . . . . .	—	—	—	—	—	—	—	11.6	14.1	—	—	—	—
<b>Amount of Gear Fished</b>													
groundfish-no. of lines <sup>2</sup> . . . . .	2,501	—	—	—	—	—	—	—	4,520	—	—	—	—
swordfish-no. of lines . . . . .	—	—	—	—	—	—	—	12,094	82,669	—	—	—	—
number of traps . . . . .	—	—	1,320	—	—	—	—	—	—	—	—	—	—
number of nets . . . . .	319	—	—	—	—	—	—	—	—	—	—	—	—

**Table 5 — Average Fishing Activities for 103 Fishing Enterprises (cont'd)**  
**Atlantic Provinces — 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA feet .....	49	60	72	86	60	65	93	60	65	87	82	89
number of boats .....	3	2	2	6	2	5	4	15	7	2	4	2
<b>Fishing Period</b>												
first date sailed .....	May 5	May 18	Apr. 22	Mar. 5	Apr. 2	Apr. 8	Jan. 1	Apr. 22	Apr. 8	Apr. 22	Apr. 4	Jan. 1
last date landed .....	Nov. 15	Nov. 9	Nov. 25	Dec. 7	Aug. 16	Nov. 12	Dec. 23	Dec. 10	Dec. 9	Dec. 5	Dec. 8	Dec. 27
<b>Average per Boat</b>												
number of trips .....	74	*	20	20	9	33	30	25	24	30	22	52
boat-days at sea .....	132	*	142	150	52	94	235	131	141	169	135	*
boat-days fished .....	132	*	116	119	*	*	*	103	105	133	101	*
man-days at sea .....	368	*	682	846	218	343	2,177	494	587	850	670	*
man-days ashore <sup>1</sup> .....	95	*	100	221	—	—	—	67	70	84	127	*
total man-days worked .....	463	*	782	1,067	218	343	2,177	561	657	934	797	*
<b>Hours Actual Fishing</b>												
dragging .....	69	—	1,627	1,686	*	698	1,942	1,555	1,729	2,096	1,801	—
crabbing .....	721	*	—	—	—	179	—	31	—	—	—	—
Danish seining .....	—	—	—	—	—	—	—	111 <sup>3</sup>	—	—	—	—
Scottish seining .....	—	—	—	—	—	—	—	—	—	—	—	—
purse seining .....	—	—	—	—	—	—	—	—	—	—	—	*
gillnetting .....	—	—	—	—	—	—	—	—	—	—	—	—
longlining for groundfish .....	—	—	—	—	—	—	—	—	—	—	—	—
longlining for swordfish .....	—	—	—	—	—	—	—	—	—	—	—	—
total hours fishing .....	790	*	1,627	1,686	*	877	1,942	1,697	1,729	2,096	1,801	*
<b>Number of sets for</b>												
dragging .....	34	—	508	614	*	287	859	433	498	577	585	—
crabbing .....	127	*	—	—	—	33	—	*	—	—	—	—
Danish seining .....	—	—	—	—	—	—	—	36 <sup>3</sup>	—	—	—	—
Scottish seining .....	—	—	—	—	—	—	—	—	—	—	—	—
purse seining .....	—	—	—	—	—	—	—	—	—	—	—	*
gillnetting .....	—	—	—	—	—	—	—	—	—	—	—	—
longlining for groundfish .....	—	—	—	—	—	—	—	—	—	—	—	—
longlining for swordfish .....	—	—	—	—	—	—	—	—	—	—	—	—

**Table 5 – Average Fishing Activities for 103 Fishing Enterprises (concluded)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Dragers		Side Dragers		Side Dragers	Side Dragers			Side Dragers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
<b>Duration of Sets in Hours</b>												
dragging . . . . .	2.0	—	3.2	2.7	*	2.4	2.3	3.6	3.5	3.6	3.1	—
crabbing . . . . .	5.4	*	—	—	—	5.5	—	*	—	—	—	—
Danish seining . . . . .	—	—	—	—	—	—	—	3.1 <sup>3</sup>	—	—	—	—
Scottish seining . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
purse seining . . . . .	—	—	—	—	—	—	—	—	—	—	—	*
gillnetting . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
longlining for groundfish . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
longlining for swordfish . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
<b>Amount of Gear Fished</b>												
groundfish-no. of lines <sup>2</sup> . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
swordfish-no. of lines . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
number of traps . . . . .	4,325	*	—	—	—	*	—	14	—	—	—	—
number of nets . . . . .	—	—	—	—	—	—	—	—	—	—	—	—

<sup>1</sup>Man-days by crew in unloading fish, outfitting, maintenance and repair of boat and gear.

<sup>2</sup>Number of lines reported in 50 fathom units.

<sup>3</sup>Seining for shrimp.

\*Information not available.

**Table 6 – Days at Sea per Fishing Trip for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels							Steel Vessels			
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.
Trips made which were <sup>1</sup>													
1 day at sea . . . . .	313	—	*	48	—	178	62	1	—	—	—	—	—
2 days at sea . . . . .	—	—	*	58	—	—	48	4	—	—	1	—	1
3 " " . . . . .	—	—	*	37	—	—	26	10	—	—	2	—	1
4 " " . . . . .	—	2	*	11	—	—	20	7	2	1	1	1	1
5 " " . . . . .	—	3	*	—	—	—	12	4	—	9	—	1	—
6 " " . . . . .	—	3	*	—	3	—	10	4	1	5	3	—	—
7 " " . . . . .	—	16	*	—	1	—	5	1	1	8	7	2	5
8 " " . . . . .	—	30	*	—	5	—	2	—	—	14	14	19	11
9 " " . . . . .	—	41	*	—	3	—	3	2	1	17	27	26	32
10 " " . . . . .	—	43	*	—	2	—	1	4	2	12	20	27	25
11 " " . . . . .	—	35	*	—	2	—	—	2	1	8	24	9	19
12 " " . . . . .	—	21	*	—	10	—	—	2	6	1	7	—	10
13 " " . . . . .	—	3	*	—	8	—	—	1	6	—	1	1	1
14 " " . . . . .	—	—	*	—	14	—	—	2	4	—	—	—	—
15 " " . . . . .	—	—	*	—	5	—	—	—	8	—	—	—	—
16 " " . . . . .	—	—	*	—	2	—	—	—	7	—	—	—	—
17 " " . . . . .	—	—	*	—	4	—	—	1	4	—	—	—	—
18 " " . . . . .	—	—	*	—	1	—	—	1	8	—	—	—	—
19 " " . . . . .	—	—	*	—	—	—	—	1	4	—	—	—	—
20 " " . . . . .	—	—	*	—	—	—	—	—	5	—	—	—	—
21 " " . . . . .	—	—	*	—	—	—	—	—	1	—	—	—	—
Total Trips Made . . . . .	313	197	94	154	60	178	189	47	61	75	107	86	106
Total Days at Sea . . . . .	313	1,868	109	319	747	*	520	317	910	620	995	791	1,012
Average Days at Sea per Trip <sup>2</sup> . . . . .	1.0	9.5	1.2	2.1	12.5	*	2.8	6.7	14.9	8.3	9.3	9.2	9.5

**Table 6 – Days at Sea per Fishing Trip for 103 Fishing Enterprises (cont'd)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.
<b>Trips made which were<sup>1</sup></b>												
1 day at sea . . . . .	56	*	—	1	—	93	—	—	1	—	—	*
2 days at sea . . . . .	160	*	—	1	—	14	—	9	4	—	—	*
3 " " . . . . .	2	*	—	1	2	9	2	33	9	2	1	*
4 " " . . . . .	1	*	1	3	4	4	3	67	19	8	10	*
5 " " . . . . .	1	*	2	8	3	5	10	109	36	15	26	*
6 " " . . . . .	1	*	10	16	2	7	24	96	35	19	18	*
7 " " . . . . .	—	*	13	36	2	16	29	46	36	10	20	*
8 " " . . . . .	—	*	9	26	4	9	13	8	17	4	5	*
9 " " . . . . .	—	*	4	19	1	5	17	5	7	1	2	*
10 " " . . . . .	—	*	1	9	—	1	7	1	2	—	4	*
11 " " . . . . .	—	*	—	2	—	—	5	—	—	—	1	*
12 " " . . . . .	—	*	—	—	—	—	6	1	—	—	—	*
13 " " . . . . .	—	*	—	—	—	—	2	—	1	—	—	*
14 " " . . . . .	—	*	—	—	—	—	1	—	—	—	—	*
15 " " . . . . .	—	*	—	—	—	—	1	—	—	—	—	*
16 " " . . . . .	—	*	—	—	—	—	1	—	—	—	—	*
17 " " . . . . .	—	*	—	—	—	—	—	—	—	—	—	*
18 " " . . . . .	—	*	—	—	—	—	—	—	—	—	—	*
19 " " . . . . .	—	*	—	—	—	—	—	—	—	—	—	*
20 " " . . . . .	—	*	—	—	—	—	—	—	—	—	—	*
21 " " . . . . .	—	*	—	—	—	—	—	—	—	—	—	*
<b>Total Trips Made . . . . .</b>	<b>221</b>	<b>*</b>	<b>40</b>	<b>122</b>	<b>18</b>	<b>163</b>	<b>121</b>	<b>375</b>	<b>167</b>	<b>59</b>	<b>87</b>	<b>103</b>
<b>Total Days at Sea . . . . .</b>	<b>397</b>	<b>*</b>	<b>283</b>	<b>898</b>	<b>104</b>	<b>470</b>	<b>940</b>	<b>1,959</b>	<b>986</b>	<b>338</b>	<b>530</b>	<b>*</b>
<b>Average Days at Sea per Trip<sup>2</sup> . . . . .</b>	<b>1.8</b>	<b>*</b>	<b>7.1</b>	<b>7.4</b>	<b>5.8</b>	<b>2.9</b>	<b>7.8</b>	<b>5.2</b>	<b>5.9</b>	<b>5.7</b>	<b>6.1</b>	<b>*</b>

<sup>1</sup>Days at sea rounded off to the nearest whole day — thus for "one day at sea" includes one day or less at sea.

<sup>2</sup>A trip is defined as that — leaving and returning from and to port respectively.

\* Information not available.

**Table 6(a) – Percentage Distribution of Fishing Trips According to Days at Sea for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels							Steel Vessels			
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stem Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
	%	%	%	%	%	%	%	%	%	%	%	%	%
<b>Trips made which were</b>													
1 day at sea . . . . .	100.0	—	*	31.2	—	100.0	32.8	2.1	—	—	—	—	—
2 days at sea . . . . .	—	—	*	37.7	—	—	25.4	8.5	—	—	0.9	—	0.9
3 " " . . . . .	—	—	*	24.0	—	—	13.8	21.3	—	—	1.9	—	0.9
4 " " . . . . .	—	1.0	*	7.1	—	—	10.6	14.9	3.3	1.3	0.9	1.2	0.9
5 " " . . . . .	—	1.5	*	—	—	—	6.3	8.5	—	12.0	—	1.2	—
6 " " . . . . .	—	1.5	*	—	5.0	—	5.3	8.5	1.6	6.7	2.8	—	—
7 " " . . . . .	—	8.2	*	—	1.7	—	2.6	2.1	1.6	10.7	6.6	2.3	4.8
8 " " . . . . .	—	15.2	*	—	8.3	—	1.1	—	—	18.7	13.1	22.1	10.4
9 " " . . . . .	—	20.8	*	—	5.0	—	1.6	4.3	1.6	22.6	25.2	30.2	30.2
10 " " . . . . .	—	21.8	*	—	3.3	—	0.5	8.5	3.3	16.0	18.7	31.4	23.6
11 " " . . . . .	—	17.8	*	—	3.3	—	—	4.3	1.6	10.7	22.4	10.4	17.9
12 " " . . . . .	—	10.7	*	—	16.7	—	—	4.3	9.8	1.3	6.6	—	9.5
13 " " . . . . .	—	1.5	*	—	13.4	—	—	2.1	9.8	—	0.9	1.2	0.9
14 " " . . . . .	—	—	*	—	23.3	—	—	4.3	6.6	—	—	—	—
15 " " . . . . .	—	—	*	—	8.3	—	—	—	13.1	—	—	—	—
16 " " . . . . .	—	—	*	—	3.3	—	—	—	11.5	—	—	—	—
17 " " . . . . .	—	—	*	—	6.7	—	—	2.1	6.6	—	—	—	—
18 " " . . . . .	—	—	*	—	1.7	—	—	2.1	13.1	—	—	—	—
19 " " . . . . .	—	—	*	—	—	—	—	2.1	6.6	—	—	—	—
20 " " . . . . .	—	—	*	—	—	—	—	—	8.3	—	—	—	—
21 " " . . . . .	—	—	*	—	—	—	—	—	1.6	—	—	—	—
<b>Total Trips made . . . . .</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

**Table 6(a) – Percentage Distribution of Fishing Trips According to Days at Sea for 103 Fishing Enterprises (cont'd)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	%	%	%	%	%	%	%	%	%	%	%	%
<b>Trips made which were</b>												
1 day at sea . . . . .	25.3	*	—	0.8	—	57.1	—	—	0.6	—	—	*
2 days at sea . . . . .	72.3	*	—	0.8	—	8.6	—	2.4	2.4	—	—	*
3 " " . . . . .	0.9	*	—	0.8	11.1	5.5	1.7	8.8	5.4	3.4	1.1	*
4 " " . . . . .	0.5	*	2.5	2.5	22.2	2.4	2.5	17.9	11.4	13.6	11.5	*
5 " " . . . . .	0.5	*	5.0	6.6	16.7	3.1	8.3	29.0	21.5	25.4	29.9	*
6 " " . . . . .	0.5	*	25.0	13.1	11.1	4.3	19.8	25.6	21.0	32.2	20.7	*
7 " " . . . . .	—	*	32.5	29.5	11.1	9.8	24.0	12.3	21.5	16.9	23.0	*
8 " " . . . . .	—	*	22.5	21.3	22.2	5.5	10.7	2.1	10.2	6.8	5.8	*
9 " " . . . . .	—	*	10.0	15.6	5.6	3.1	14.0	1.3	4.2	1.7	2.3	*
10 " " . . . . .	—	*	2.5	7.4	—	0.6	5.8	0.3	1.2	—	4.6	*
11 " " . . . . .	—	*	—	1.6	—	—	4.1	—	—	—	1.1	*
12 " " . . . . .	—	*	—	—	—	—	5.0	0.3	—	—	—	*
13 " " . . . . .	—	*	—	—	—	—	1.7	—	0.6	—	—	*
14 " " . . . . .	—	*	—	—	—	—	0.8	—	—	—	—	*
15 " " . . . . .	—	*	—	—	—	—	0.8	—	—	—	—	*
16 " " . . . . .	—	*	—	—	—	—	0.8	—	—	—	—	*
17 " " . . . . .	—	*	—	—	—	—	—	—	—	—	—	*
18 " " . . . . .	—	*	—	—	—	—	—	—	—	—	—	*
19 " " . . . . .	—	*	—	—	—	—	—	—	—	—	—	*
20 " " . . . . .	—	*	—	—	—	—	—	—	—	—	—	*
21 " " . . . . .	—	*	—	—	—	—	—	—	—	—	—	*
<b>Total Trips made . . . . .</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

\*Information not available.

**Table 7 – Number of Men in Crew Per Fishing Trip for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels								Steel Vessels		
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average in LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.
Number of trips Made With													
two-man crew . . . . .	40	—	91	2	—	—	*	—	—	—	—	—	—
three-man " . . . . .	235	—	3	147	—	—	*	—	—	—	—	—	—
four-man " . . . . .	38	—	—	5	—	—	*	7	—	—	—	—	—
five-man " . . . . .	—	—	—	—	—	—	*	19	—	—	—	—	—
six-man " . . . . .	—	—	—	—	—	178	*	15	3	—	—	—	—
seven-man " . . . . .	—	—	—	—	—	—	*	6	25	—	—	—	—
eight-man " . . . . .	—	—	—	—	—	—	*	—	33	8	—	—	—
nine-man " . . . . .	—	—	—	—	—	—	*	—	—	26	—	—	—
ten-man " . . . . .	—	—	—	—	—	—	*	—	—	9	1	—	—
eleven-man " . . . . .	—	—	—	—	—	—	*	—	—	19	2	—	—
twelve-man " . . . . .	—	—	—	—	—	—	*	—	—	8	1	1	—
thirteen-man " . . . . .	—	37	—	—	1	—	*	—	—	—	22	3	—
fourteen-man " . . . . .	—	61	—	—	4	—	*	—	—	2	32	6	—
fifteen-man " . . . . .	—	30	—	—	20	—	*	—	—	3	29	13	11
sixteen-man " . . . . .	—	57	—	—	34	—	*	—	—	—	20	22	43
seventeen-man " . . . . .	—	12	—	—	1	—	*	—	—	—	—	20	26
eighteen-man " . . . . .	—	—	—	—	—	—	*	—	—	—	—	20	26
nineteen-man " . . . . .	—	—	—	—	—	—	*	—	—	—	—	1	—
Total Trips . . . . .	313	197	94	154	60	178	189	47	61	75	107	86	106
Average Number of Men per Trip . . . . .	3.0	14.8	2.1	3.0	15.4	6.0	7.7	5.9	7.5	10.3	14.3	16.3	16.7
Total Man-days at Sea . . . . .	936	27,719	237	969	11,565	*	4,070	1,855	6,828	6,396	14,259	12,892	16,832
Average Man-days at Sea per Boat . . . . .	187	3,960	118	242	2,891	*	1,356	618	1,707	2,132	3,565	4,297	4,208
Average Man-day at Sea per Trip . . . . .	3.0	140.7	2.5	6.3	192.8	*	21.5	39.5	111.9	85.3	133.3	149.9	158.8

**Table 7 – Number of Men in Crew Per Fishing Trip for 103 Fishing Enterprises (cont'd)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.
Number of trips Made With												
two-man crew . . . . .	42	*	—	—	—	—	—	—	—	—	—	—
three-man " . . . . .	179	*	—	—	2	102	—	81	5	—	—	—
four-man " . . . . .	—	*	8	9	9	61	—	294	127	—	8	—
five-man " . . . . .	—	*	32	24	7	—	—	—	35	58	65	—
six-man " . . . . .	—	*	—	89	—	—	1	—	—	1	14	—
seven-man " . . . . .	—	*	—	—	—	—	1	—	—	—	—	—
eight-man " . . . . .	—	*	—	—	—	—	32	—	—	—	—	103
nine-man " . . . . .	—	*	—	—	—	—	53	—	—	—	—	—
ten-man " . . . . .	—	*	—	—	—	—	16	—	—	—	—	—
eleven-man " . . . . .	—	*	—	—	—	—	10	—	—	—	—	—
twelve-man " . . . . .	—	*	—	—	—	—	6	—	—	—	—	—
thirteen-man " . . . . .	—	*	—	—	—	—	2	—	—	—	—	—
fourteen-man " . . . . .	—	*	—	—	—	—	—	—	—	—	—	—
fifteen-man " . . . . .	—	*	—	—	—	—	—	—	—	—	—	—
sixteen-man " . . . . .	—	*	—	—	—	—	—	—	—	—	—	—
seventeen-man " . . . . .	—	*	—	—	—	—	—	—	—	—	—	—
eighteen-man " . . . . .	—	*	—	—	—	—	—	—	—	—	—	—
nineteen-man " . . . . .	—	*	—	—	—	—	—	—	—	—	—	—
Total Trips . . . . .	221	*	40	122	18	163	121	375	167	59	87	103
Average Number of Men per Trip . . . . .	2.8	3.6	4.8	5.6	4.2	3.6	9.2	3.8	4.2	5.1	5.0	8.0
Total Man-days at Sea . . . . .	1,109	*	1,363	5,075	436	1,717	8,707	7,409	4,112	1,699	2,679	*
Average Man-days at Sea per Boat . . . . .	368	*	682	846	218	343	2,177	494	587	850	670	*
Average Man-days at Sea per Trip . . . . .	5.0	*	34.1	41.6	24	10.5	72.0	19.8	24.6	28.8	30.8	*

\* Information not available.

**Table 7(a) – Percentage Distribution of Fishing Trips According to Number of Men in Crew for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels								Steel Vessels		
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
	%	%	%	%	%	%	%	%	%	%	%	%	%
<b>Number of Trips made with</b>													
two-man crew . . . . .	12.8	—	96.8	1.3	—	—	*	—	—	—	—	—	—
three-man " . . . . .	75.1	—	3.2	95.5	—	—	*	—	—	—	—	—	—
four-man " . . . . .	12.1	—	—	3.2	—	—	*	14.9	—	—	—	—	—
five-man " . . . . .	—	—	—	—	—	—	*	40.4	—	—	—	—	—
six-man " . . . . .	—	—	—	—	—	100.0	*	31.9	4.9	—	—	—	—
seven-man " . . . . .	—	—	—	—	—	—	*	12.8	41.0	—	—	—	—
eight-man " . . . . .	—	—	—	—	—	—	*	—	54.1	10.7	—	—	—
nine-man " . . . . .	—	—	—	—	—	—	*	—	—	34.6	—	—	—
ten-man " . . . . .	—	—	—	—	—	—	*	—	—	12.0	0.9	—	—
eleven-man " . . . . .	—	—	—	—	—	—	*	—	—	25.3	1.9	—	—
twelve-man " . . . . .	—	—	—	—	—	—	*	—	—	10.7	0.9	1.2	—
thirteen-man " . . . . .	—	18.8	—	—	1.7	—	*	—	—	—	20.6	3.5	—
fourteen-man " . . . . .	—	31.0	—	—	6.7	—	*	—	—	2.7	29.9	7.0	—
fifteen-man " . . . . .	—	15.2	—	—	33.3	—	*	—	—	4.0	27.1	15.1	10.4
sixteen-man " . . . . .	—	28.9	—	—	56.6	—	*	—	—	—	18.7	25.6	40.6
seventeen-man " . . . . .	—	6.1	—	—	1.7	—	*	—	—	—	—	23.2	24.5
eighteen-man " . . . . .	—	—	—	—	—	—	*	—	—	—	—	23.2	24.5
nineteen-man " . . . . .	—	—	—	—	—	—	*	—	—	—	—	1.2	—
Total Trips . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

**Table 7(a) – Percentage Distribution of Fishing Trips According to Number of Men in Crew for 103 Fishing Enterprises (cont'd)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	%	%	%	%	%	%	%	%	%	%	%	%
Number of trips made with												
two-man crew . . . . .	19.0	*	—	—	—	—	—	—	—	—	—	—
three-man " . . . . .	81.0	*	—	—	11.1	62.6	—	21.6	3.0	—	—	—
four-man " . . . . .	—	*	20.0	7.4	50.0	37.4	—	78.4	76.0	—	9.2	—
five-man " . . . . .	—	*	80.0	19.7	38.9	—	—	—	21.0	98.3	74.7	—
six-man " . . . . .	—	*	—	72.9	—	—	0.8	—	—	1.7	16.1	—
seven-man " . . . . .	—	*	—	—	—	—	0.8	—	—	—	—	—
eight-man " . . . . .	—	*	—	—	—	—	26.4	—	—	—	—	100.0
nine-man " . . . . .	—	*	—	—	—	—	43.8	—	—	—	—	—
ten-man " . . . . .	—	*	—	—	—	—	13.2	—	—	—	—	—
eleven-man " . . . . .	—	*	—	—	—	—	8.3	—	—	—	—	—
twelve-man " . . . . .	—	*	—	—	—	—	5.0	—	—	—	—	—
thirteen-man " . . . . .	—	*	—	—	—	—	1.7	—	—	—	—	—
fourteen-man " . . . . .	—	*	—	—	—	—	—	—	—	—	—	—
fifteen-man " . . . . .	—	*	—	—	—	—	—	—	—	—	—	—
sixteen-man " . . . . .	—	*	—	—	—	—	—	—	—	—	—	—
seventeen-man " . . . . .	—	*	—	—	—	—	—	—	—	—	—	—
eighteen-man " . . . . .	—	*	—	—	—	—	—	—	—	—	—	—
nineteen-man " . . . . .	—	*	—	—	—	—	—	—	—	—	—	—
Total Trips . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

\* Information not available.

Table 8 – Total Landings, by Species, for 103 Fishing Enterprises  
Atlantic Provinces – 1968

Item	Total All Types	NEWFOUNDLAND		NOVA SCOTIA										
		Wooden	Steel	Wooden Vessels								Steel Vessels		
		Long-Liners	Stern Trawlers	Crabbers	Stern Druggers	Scallop Druggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet	—	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats	103	5	7	2	4	4	3	3	3	4	3	4	3	4
Total Landings <sup>1</sup>	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
cod	41,645,364	372,806	11,371,321	18,741	680,784	—	—	—	144,433	40,006	1,601,110	5,212,750	3,561,038	5,710,473
haddock	19,375,549	—	734,276	144	1,573,351	—	—	—	338,389	35	2,698,790	1,488,946	4,442,230	6,941,132
pollock	5,168,142	—	37,218	—	758,243	—	—	—	635	—	1,419,535	466,565	630,205	1,622,130
hake	728,486	—	71,825	3,186	683	—	—	—	2,963	17,667	19,835	11,299	18,160	21,052
cusk	247,271	—	—	—	4,874	—	—	—	1,439	9,633	62,935	10,826	50,638	81,551
halibut	523,412	5	185,955	—	520	—	—	—	861	121,878	16,129	35,692	34,182	62,698
flounders <sup>2</sup>	40,884,714	74,502	23,836,678	76,023	58,541	—	—	—	181,277	—	174,120	6,603,968	290,870	3,021,431
turbot	1,112,004	477,835	39,991	—	—	—	—	—	—	520	—	—	—	—
redfish	46,271,969	—	929,057	—	763	—	—	—	4,765	1,220	1,109,472	1,392,130	197,561	1,025,241
wolffish	987,839	15,514	457,483	—	61,847	—	—	—	9,994	1,371	48,785	107,456	86,990	130,688
monkfish	520	—	—	—	—	—	—	—	—	—	—	—	355	165
swordfish	996,618	—	—	—	—	—	—	—	213,281	783,337	—	—	—	—
tuna	57,326	—	—	—	—	—	—	—	5,278	52,048	—	—	—	—
herring	95,110,190	—	—	—	—	—	19,734,240	53,360,730	—	—	—	—	—	—
shark	2,924	—	—	—	—	—	—	—	966	1,958	—	—	—	—
scallop	952,388	—	—	—	—	952,388	—	—	—	—	—	—	—	—
crab	2,098,034	—	—	275,872	—	—	—	—	—	—	—	—	—	—
shrimp	133,161	—	—	—	—	—	—	—	—	—	—	—	—	—
squid	6,630	—	—	—	—	—	—	—	—	—	6,630	—	—	—
unclassified <sup>3</sup>	7,617,685	—	2,720,501	400	—	—	—	—	18,098	—	110,512	435,888	112,724	274,109
livers and roe	21,512	21,512	—	—	—	—	—	—	—	—	—	—	—	—
Total Landings	263,941,738	962,174	40,384,305	374,366	3,139,606	952,388	19,734,240	53,360,730	922,379	1,029,673	7,267,853	15,765,520	9,424,953	18,890,670

**Table 8 – Total Landings, by Species, for 103 Fishing Enterprises (Cont'd)**  
**Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
Total Landings <sup>1</sup>	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
cod . . . . .	32,160	—	360,639	1,245,054	245,937	876,064	2,789,283	4,113,216	1,944,472	557,831	767,246	—
haddock . . . . .	—	—	1,710	195,145	21,410	29,859	906,622	488	2,278	—	744	—
pollock . . . . .	—	—	—	6,890	200	—	226,390	—	5	—	126	—
hake . . . . .	—	—	5,040	80,525	53,740	351,640	31,700	29,525	7,973	845	828	—
cusk . . . . .	—	—	—	6,445	—	—	18,930	—	—	—	—	—
halibut . . . . .	—	—	606	5,935	—	—	22,035	14,306	9,631	6,734	6,245	—
flounders <sup>2</sup> . . . . .	16,527	—	365,663	1,761,540	396,111	892,589	362,250	1,139,406	742,271	469,801	421,146	—
turbot . . . . .	—	—	28,595	52,475	20	—	25,115	239,539	167,719	56,696	23,499	—
redfish . . . . .	—	—	3,000,209	8,977,242	2,280	—	8,077,552	5,958,674	5,975,698	3,838,634	5,781,471	—
wolffish . . . . .	—	—	4,650	8,050	510	2,087	28,269	8,213	10,961	1,973	2,998	—
monkfish . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
swordfish . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
tuna . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
herring . . . . .	—	—	—	—	—	—	—	20	—	—	—	22,015,200
shark . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
scallop . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
crab . . . . .	790,056	442,713	—	—	—	501,292	—	88,101	—	—	—	—
shrimp . . . . .	—	—	—	—	—	—	—	133,161	—	—	—	—
squid . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
unclassified <sup>3</sup> . . . . .	—	—	74,111	546,792	15,792	87,207	1,823,152	176,428	376,952	149,432	695,587	—
livers and roe . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Total Landings . . . . .	838,743	442,713	3,841,223	12,886,093	736,000	2,740,738	14,311,298	11,901,077	9,237,960	5,081,946	7,699,890	22,015,200

<sup>1</sup>Weight reported in landed form (product weight i.e. weight as offered for sale). In general for swordfish, gutted head on tail off, redfish, flounders, herring in the round, for all others, gutted head on; scallop shucked; crab and shrimp in the shell. Also, some trawlers landed flounders in the dressed form.

<sup>2</sup>Including plaice, witch flounders (grey sole), yellow tail flounders (lemon sole) and winter flounders.

<sup>3</sup>All species of poor quality are classified by buyers as for "fish meal" production.

**Table 9 – Percentage Distribution of Total Landings, by Species, for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	Total All Types	NEWFOUNDLAND		NOVA SCOTIA										
		Wooden	Steel	Wooden Vessels								Steel Vessels		
		Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
							67	103	70	88	110	120	141	154
average LOA in feet . . . . .	—	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	103	5	7	2	4	4	3	3	3	4	3	4	3	4
	%	%	%	%	%	%	%	%	%	%	%	%	%	%
<b>Total Landings in %</b>														
cod . . . . .	15.8	38.7	28.2	5.0	21.7	—	—	—	15.6	3.9	22.0	33.1	37.8	30.2
haddock . . . . .	7.3	—	1.8	0	50.1	—	—	—	36.7	0	37.1	9.4	47.1	36.8
pollock . . . . .	1.9	—	0.1	—	24.1	—	—	—	0.1	—	19.5	2.9	6.7	8.6
hake . . . . .	0.3	—	0.2	0.9	00	—	—	—	0.3	1.7	0.3	0.1	0.2	0.1
cusk . . . . .	0.1	—	—	—	0.2	—	—	—	0.2	0.9	0.9	0.1	0.5	0.4
halibut . . . . .	0.2	0	0.5	—	0	—	—	—	0.1	11.8	0.2	0.2	0.4	0.3
flounders . . . . .	15.5	7.8	59.0	20.3	1.9	—	—	—	19.6	—	2.4	41.9	3.1	16.0
turbot . . . . .	0.4	49.7	0.1	—	—	—	—	—	—	0.1	—	—	—	—
redfish . . . . .	17.5	—	2.3	—	0	—	—	—	0.5	0.1	15.3	8.8	2.1	5.4
wolffish . . . . .	0.4	1.6	1.1	—	2.0	—	—	—	1.1	0.1	0.7	0.7	0.9	0.7
monkfish . . . . .	0	—	—	—	—	—	—	—	—	—	—	—	0	0
swordfish . . . . .	0.4	—	—	—	—	—	—	—	23.1	76.1	—	—	—	—
tuna . . . . .	0	—	—	—	—	—	—	—	0.6	5.1	—	—	—	—
herring . . . . .	36.0	—	—	—	—	—	100.0	100.0	—	—	—	—	—	—
shark . . . . .	0	—	—	—	—	—	—	—	0.1	0.2	—	—	—	—
scallop . . . . .	0.4	—	—	—	—	100.0	—	—	—	—	—	—	—	—
crab . . . . .	0.8	—	—	73.7	—	—	—	—	—	—	—	—	—	—
shrimp . . . . .	0.1	—	—	—	—	—	—	—	—	—	—	—	—	—
squid . . . . .	0	—	—	—	—	—	—	—	—	—	0.1	—	—	—
unclassified . . . . .	2.9	—	6.7	0.1	—	—	—	—	2.0	—	1.5	2.8	1.2	1.5
livers and roe . . . . .	0	2.2	—	—	—	—	—	—	—	—	—	—	—	—
<b>Total Landings . . . . .</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

**Table 9 – Percentage Distribution of Total Landings, by Species, for 103 Fishing Enterprises (cont'd)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	%	%	%	%	%	%	%	%	%	%	%	%
<b>Total Landings in %</b>												
cod . . . . .	3.8	—	9.4	9.7	33.4	32.0	19.5	34.6	21.1	11.0	10.0	—
haddock . . . . .	—	—	0.1	1.5	2.9	1.1	6.3	0	0	—	0	—
pollock . . . . .	—	—	—	0.1	0	—	1.6	—	0	—	0	—
hake . . . . .	—	—	0.2	0.6	7.3	12.8	0.2	0.2	0.1	0	0	—
cusk . . . . .	—	—	—	0	—	—	0.1	—	—	—	—	—
halibut . . . . .	—	—	0	0	—	—	0.2	0.1	0.1	0.1	0.1	—
flounders . . . . .	2.0	—	9.5	13.7	53.8	32.5	2.5	9.6	8.0	9.3	5.5	—
turbot . . . . .	—	—	0.7	0.4	0	—	0.2	2.0	1.8	1.1	0.3	—
redfish . . . . .	—	—	78.1	69.7	0.3	—	56.5	50.1	64.7	75.5	75.1	—
wolffish . . . . .	—	—	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0	0	—
monkfish . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
swordfish . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
tuna . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
herring . . . . .	—	—	—	—	—	—	—	0	—	—	—	100.0
shark . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
scallop . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
crab . . . . .	94.2	100.0	—	—	—	18.3	—	0.7	—	—	—	—
shrimp . . . . .	—	—	—	—	—	—	—	1.1	—	—	—	—
squid . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
unclassified . . . . .	—	—	1.9	4.2	2.2	3.2	12.7	1.5	4.1	3.0	9.0	—
livers and roe . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
<b>Total Landings . . . . .</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

0 Less than one-half of 0.1 %

**Table 10 – Average Landings Per Boat, by Species, for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEW FOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels								Steel Vessels		
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
<b>Average Landings per Boat</b>													
cod . . . . .	74,561	1,624,474	9,370	170,196	—	—	—	48,144	10,001	533,704	1,303,188	1,187,013	1,427,618
haddock . . . . .	—	104,897	72	393,338	—	—	—	112,796	9	899,597	372,236	1,480,743	1,735,283
pollock . . . . .	—	5,317	—	189,561	—	—	—	212	—	473,178	116,641	210,068	405,533
hake . . . . .	—	10,261	1,593	171	—	—	—	988	4,417	6,612	2,825	6,053	5,263
cask . . . . .	—	—	—	1,218	—	—	—	480	2,408	20,978	2,707	16,879	20,388
halibut . . . . .	11	26,565	—	130	—	—	—	287	30,469	5,376	8,923	11,394	15,675
flounders . . . . .	14,901	3,405,239	38,012	14,635	—	—	—	60,426	—	58,040	1,650,992	96,957	755,358
turbot . . . . .	95,567	5,713	—	—	—	—	—	—	130	—	—	—	—
redfish . . . . .	—	132,722	—	191	—	—	—	1,588	305	369,824	348,032	65,854	256,310
wolffish . . . . .	3,103	65,355	—	15,462	—	—	—	3,331	343	16,262	26,864	28,997	32,672
monkfish . . . . .	—	—	—	—	—	—	—	—	—	—	—	118	41
swordfish . . . . .	—	—	—	—	—	—	—	71,094	195,834	—	—	—	—
tuna . . . . .	—	—	—	—	—	—	—	1,759	13,012	—	—	—	—
herring . . . . .	—	—	—	—	—	6,578,080	17,786,910	—	—	—	—	—	—
shark . . . . .	—	—	—	—	—	—	—	322	490	—	—	—	—
scallop . . . . .	—	—	—	—	238,097	—	—	—	—	—	—	—	—
crab . . . . .	—	—	137,936	—	—	—	—	—	—	—	—	—	—
shrimp . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—
squid . . . . .	—	—	—	—	—	—	—	—	—	2,210	—	—	—
unclassified . . . . .	—	388,643	200	—	—	—	—	6,033	—	36,837	108,972	37,575	68,527
livers and roe . . . . .	4,302	—	—	—	—	—	—	—	—	—	—	—	—
<b>Total Landings . . . . .</b>	<b>192,435</b>	<b>5,769,186</b>	<b>187,183</b>	<b>784,902</b>	<b>238,097</b>	<b>6,578,080</b>	<b>17,786,910</b>	<b>307,460</b>	<b>257,418</b>	<b>2,422,618</b>	<b>3,941,380</b>	<b>3,141,651</b>	<b>4,722,668</b>

**Table 10 – Average Landings Per Boat, by Species, for 103 Fishing Enterprises (Cont'd)**  
**Atlantic Provinces – 1968**

	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
<b>Average Landings per Boat</b>												
cod . . . . .	10,720	—	180,319	207,509	122,968	175,213	697,321	274,214	277,781	278,916	191,811	—
haddock . . . . .	—	—	855	32,524	10,705	5,972	226,655	33	325	—	186	—
pollock . . . . .	—	—	—	1,148	100	—	56,597	—	1	—	32	—
hake . . . . .	—	—	2,520	13,421	26,870	70,328	7,925	1,968	1,139	422	207	—
cusk . . . . .	—	—	—	1,074	—	—	4,733	—	—	—	—	—
halibut . . . . .	—	—	303	989	—	—	5,509	954	1,376	3,367	1,561	—
flounders . . . . .	5,509	—	182,831	293,590	198,056	178,518	90,563	75,961	106,039	234,900	105,286	—
turbot . . . . .	—	—	14,298	8,746	10	—	6,279	15,969	23,960	28,348	5,875	—
redfish . . . . .	—	—	1,500,105	1,496,207	1,140	—	2,019,388	397,245	853,671	1,919,317	1,445,368	—
wolffish . . . . .	—	—	2,325	1,342	255	417	7,067	548	1,566	987	750	—
monkfish . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
swordfish . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
tuna . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
herring . . . . .	—	—	—	—	—	—	—	1	—	—	—	11,007,600
shark . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
scallop . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
crab . . . . .	263,352	221,356	—	—	—	100,258	—	5,873	—	—	—	—
shrimp . . . . .	—	—	—	—	—	—	—	8,877	—	—	—	—
squid . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
unclassified . . . . .	—	—	37,056	91,132	7,896	17,442	455,788	11,762	53,850	74,716	173,897	—
livers and roe . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
<b>Total Landings . . . . .</b>	<b>279,581</b>	<b>221,356</b>	<b>1,920,612</b>	<b>2,147,682</b>	<b>368,000</b>	<b>548,148</b>	<b>3,577,825</b>	<b>793,405</b>	<b>1,319,708</b>	<b>2,540,973</b>	<b>1,924,973</b>	<b>11,007,600</b>

**Table 11 – Total Value of Landings, by Species, for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	Total All Types	NEWFOUNDLAND		NOVA SCOTIA										
		Wooden	Steel	Wooden Vessels								Steel Vessels		
		Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	—	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	103	5	7	2	4	4	3	3	3	4	3	4	3	4
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Total Value of Landings</b>														
cod . . . . .	1,903,600	13,845	432,844	688	28,259	—	—	—	7,730	2,048	95,624	272,830	205,637	320,985
haddock . . . . .	1,442,206	—	34,301	9	98,225	—	—	—	24,067	3	203,427	109,948	344,178	543,025
pollock . . . . .	157,024	—	963	—	18,642	—	—	—	21	—	38,605	15,847	20,644	54,745
hake . . . . .	18,456	—	2,310	107	22	—	—	—	88	620	497	288	464	568
cusk . . . . .	6,373	—	—	—	172	—	—	—	52	450	1,593	246	1,250	1,970
halibut . . . . .	144,806	1	27,893	—	179	—	—	—	285	69,548	3,326	8,121	7,310	13,395
flounders . . . . .	1,611,888	1,118	910,171	2,917	2,414	—	—	—	8,816	—	7,312	311,752	13,659	121,936
turbot . . . . .	27,548	14,335	1,005	—	—	—	—	—	—	18	—	—	—	—
redfish . . . . .	1,310,415	—	25,243	—	23	—	—	—	116	24	36,485	38,556	5,782	28,362
wolffish . . . . .	32,875	465	13,724	—	2,854	—	—	—	309	52	1,757	3,496	3,045	4,761
monkfish . . . . .	10	—	—	—	—	—	—	—	—	—	—	—	7	3
swordfish . . . . .	512,323	—	—	—	—	—	—	—	95,721	416,602	—	—	—	—
tuna . . . . .	6,669	—	—	—	—	—	—	—	372	6,297	—	—	—	—
herring . . . . .	886,171	—	—	—	—	—	189,686	498,347	—	—	—	—	—	—
shark . . . . .	205	—	—	—	—	—	—	—	77	128	—	—	—	—
scallop . . . . .	836,212	—	—	—	—	836,212	—	—	—	—	—	—	—	—
crab . . . . .	187,936	—	—	22,070	—	—	—	—	—	—	—	—	—	—
shrimp . . . . .	15,979	—	—	—	—	—	—	—	—	—	—	—	—	—
squid . . . . .	332	—	—	—	—	—	—	—	—	—	332	—	—	—
unclassified . . . . .	18,764	—	3,974	1	—	—	—	—	433	—	68	1,550	286	1,035
livers and roe . . . . .	186	186	—	—	—	—	—	—	—	—	—	—	—	—
<b>Total Value of Landings . . . . .</b>	<b>9,119,978</b>	<b>29,950</b>	<b>1,452,428</b>	<b>25,792</b>	<b>150,790</b>	<b>836,212</b>	<b>189,686</b>	<b>498,347</b>	<b>138,087</b>	<b>495,790</b>	<b>389,026</b>	<b>762,634</b>	<b>602,262</b>	<b>1,090,785</b>

**Table 11 – Total Value of Landings, by Species, for 103 Fishing Enterprises (cont'd)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Total Value of Landings</b>												
cod . . . . .	1,286	—	14,578	49,806	10,931	38,167	113,082	164,388	77,805	22,356	30,711	—
haddock . . . . .	—	—	103	14,168	1,617	2,167	66,757	29	137	—	45	—
pollock . . . . .	—	—	—	221	6	—	7,326	—	0	—	4	—
hake . . . . .	—	—	91	1,984	1,454	8,740	799	315	82	14	13	—
cusk . . . . .	—	—	—	167	—	—	473	—	—	—	—	—
halibut . . . . .	—	—	91	827	—	—	4,998	3,791	2,469	1,535	1,037	—
flounders . . . . .	579	—	12,633	66,673	14,768	31,430	14,393	37,836	24,389	15,408	13,684	—
turbot . . . . .	—	—	572	1,138	1	—	754	4,767	3,354	1,134	470	—
redfish . . . . .	—	—	82,419	238,794	45	—	262,332	163,744	164,312	105,188	158,990	—
wolfish . . . . .	—	—	116	252	17	73	982	322	451	79	120	—
monkfish . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
swordfish . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
tuna . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
herring . . . . .	—	—	—	—	—	—	—	1	—	—	—	198,137
shark . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
scallop . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
crab . . . . .	67,208	39,719	—	—	—	50,129	—	8,810	—	—	—	—
shrimp . . . . .	—	—	—	—	—	—	—	15,979	—	—	—	—
squid . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
unclassified . . . . .	—	—	185	1,864	60	337	7,293	487	282	434	475	—
livers and roe . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
<b>Total Value of Landings . . . . .</b>	<b>69,073</b>	<b>39,719</b>	<b>110,788</b>	<b>375,894</b>	<b>28,899</b>	<b>131,043</b>	<b>479,189</b>	<b>400,469</b>	<b>273,281</b>	<b>146,148</b>	<b>205,549</b>	<b>198,137</b>

0 Less than \$0.50.

**Table 12 – Percentage Distribution of Total Value of Landings, by Species, for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	Total All Types	NEWFOUNDLAND		NOVA SCOTIA										
		Wooden	Steel	Wooden Vessels								Steel Vessels		
		Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	—	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	103	5	7	2	4	4	3	3	3	4	3	4	3	4
Value of Landings in %	%	%	%	%	%	%	%	%	%	%	%	%	%	%
cod . . . . .	20.9	46.2	29.8	2.7	18.8	—	—	—	5.6	0.4	24.6	35.8	34.1	29.4
haddock . . . . .	15.8	—	2.4	0	65.1	—	—	—	17.4	0	52.3	14.4	57.2	49.8
pollock . . . . .	1.7	—	0.1	—	12.4	—	—	—	0	—	9.9	2.1	3.4	5.0
hake . . . . .	0.2	—	0.2	0.4	0	—	—	—	0.1	0.1	0.1	0	0.1	0.1
cask . . . . .	0.1	—	—	—	0.1	—	—	—	0	0.1	0.4	0	0.2	0.2
halibut . . . . .	1.6	0	1.9	—	0.1	—	—	—	0.2	14.0	0.8	1.1	1.2	1.2
flounders . . . . .	17.7	3.7	62.6	11.3	1.6	—	—	—	6.4	—	1.9	40.9	2.3	11.2
turbot . . . . .	0.3	47.9	0.1	—	—	—	—	—	—	0	—	—	—	—
redfish . . . . .	14.4	—	1.7	—	0	—	—	—	0.1	0	9.4	5.0	1.0	2.6
wolffish . . . . .	0.3	1.6	0.9	—	1.9	—	—	—	0.2	0	0.5	0.5	0.5	0.4
monkfish . . . . .	0	—	—	—	—	—	—	—	—	—	—	—	0	0
swordfish . . . . .	5.6	—	—	—	—	—	—	—	69.3	84.1	—	—	—	—
tuna . . . . .	0.1	—	—	—	—	—	—	—	0.3	1.3	—	—	—	—
herring . . . . .	9.7	—	—	—	—	—	100.0	100.0	—	—	—	—	—	—
shark . . . . .	0	—	—	—	—	—	—	—	0.1	0	—	—	—	—
scallop . . . . .	9.2	—	—	—	—	100.0	—	—	—	—	—	—	—	—
crab . . . . .	2.0	—	—	85.6	—	—	—	—	—	—	—	—	—	—
shrimp . . . . .	0.2	—	—	—	—	—	—	—	—	—	—	—	—	—
squid . . . . .	0	—	—	—	—	—	—	—	—	—	0.1	—	—	—
unclassified . . . . .	0.2	—	0.3	0	—	—	—	—	0.3	—	0	0.2	0	0.1
livers and roe . . . . .	0	0.6	—	—	—	—	—	—	—	—	—	—	—	—
Total Value of Landings . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

**Table 12 – Percentage Distribution of Total Value of Landings, by Species, for 103 Fishing Enterprises (cont'd)**  
**Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	%	%	%	%	%	%	%	%	%	%	%	%
Value of Landings in %												
cod . . . . .	1.9	—	13.1	13.3	37.8	29.1	23.6	41.0	28.5	15.3	14.9	—
haddock . . . . .	—	—	0.1	3.8	5.6	1.6	13.9	0	0.1	—	0	—
pollock . . . . .	—	—	—	0.1	0	—	1.5	—	0	—	0	—
hake . . . . .	—	—	0.1	0.5	5.0	6.7	0.2	0.1	0	0	0	—
cask . . . . .	—	—	—	0	—	—	0.1	—	—	—	—	—
halibut . . . . .	—	—	0.1	0.2	—	—	1.0	0.9	0.9	1.1	0.5	—
flounders . . . . .	0.8	—	11.4	17.7	51.1	24.0	3.0	9.5	8.9	10.5	6.7	—
turbot . . . . .	—	—	0.5	0.3	0	—	0.2	1.2	1.2	0.8	0.2	—
redfish . . . . .	—	—	74.4	63.5	0.2	—	54.8	40.9	60.1	72.0	77.4	—
wolffish . . . . .	—	—	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0	0.1	—
monkfish . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
swordfish . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
tuna . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
herring . . . . .	—	—	—	—	—	—	—	0	—	—	—	100.0
shark . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
scallop . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
crab . . . . .	97.3	100.0	—	—	—	38.2	—	2.2	—	—	—	—
shrimp . . . . .	—	—	—	—	—	—	—	4.0	—	—	—	—
squid . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
unclassified . . . . .	—	—	0.2	0.5	0.2	0.3	1.5	0.1	0.1	0.3	0.2	—
livers and roe . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Total Value of Landings . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

0 Less than one-Half of 0.1 %

**Table 13 – Average Value of Landings per Boat, by Species, for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels								Steel Vessels		
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Sieners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Average Value of Landings per Boat</b>													
cod . . . . .	2,769	61,835	344	7,065	—	—	—	2,577	512	31,875	68,208	68,546	80,246
haddock . . . . .	—	4,900	4	24,556	—	—	—	8,022	1	67,809	27,487	114,726	135,756
pollock . . . . .	—	137	—	4,660	—	—	—	7	—	12,868	3,962	6,881	13,686
hake . . . . .	—	330	54	5	—	—	—	29	155	166	72	155	142
cusk . . . . .	—	—	—	43	—	—	—	17	112	531	62	417	493
halibut . . . . .	0	3,985	—	45	—	—	—	95	17,387	1,109	2,030	2,437	3,349
flounders . . . . .	224	130,025	1,458	604	—	—	—	2,939	—	2,437	77,938	4,553	30,484
turbot . . . . .	2,867	143	—	—	—	—	—	—	5	—	—	—	—
redfish . . . . .	—	3,606	—	6	—	—	—	39	6	12,162	9,639	1,927	7,090
wolffish . . . . .	93	1,961	—	714	—	—	—	103	13	585	874	1,015	1,190
monkfish . . . . .	—	—	—	—	—	—	—	—	—	—	—	2	1
swordfish . . . . .	—	—	—	—	—	—	—	31,907	104,151	—	—	—	—
tuna . . . . .	—	—	—	—	—	—	—	124	1,574	—	—	—	—
herring . . . . .	—	—	—	—	—	63,229	166,116	—	—	—	—	—	—
shark . . . . .	—	—	—	—	—	—	—	26	32	—	—	—	—
scallop . . . . .	—	—	—	—	209,053	—	—	—	—	—	—	—	—
crab . . . . .	—	—	11,035	—	—	—	—	—	—	—	—	—	—
shrimp . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—
squid . . . . .	—	—	—	—	—	—	—	—	—	110	—	—	—
unclassified . . . . .	—	568	1	—	—	—	—	144	—	23	387	95	259
livers and roe . . . . .	37	—	—	—	—	—	—	—	—	—	—	—	—
<b>Total Value of Landings . . . . .</b>	<b>5,990</b>	<b>207,490</b>	<b>12,896</b>	<b>37,698</b>	<b>209,053</b>	<b>63,229</b>	<b>166,116</b>	<b>46,029</b>	<b>123,948</b>	<b>129,675</b>	<b>190,659</b>	<b>200,754</b>	<b>272,696</b>

**Table 13 – Average Value of Landings per Boat, by Species, for 103 Fishing Enterprises (cont'd)**  
**Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LDA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Average Value of Landings per Boat</b>												
cod . . . . .	429	—	7,289	8,301	5,465	7,633	28,271	10,959	11,115	11,178	7,678	—
haddock . . . . .	—	—	51	2,361	808	434	16,689	2	20	—	11	—
pollock . . . . .	—	—	—	37	3	—	1,831	—	0	—	1	—
hake . . . . .	—	—	45	331	727	1,748	200	21	12	7	3	—
cusk . . . . .	—	—	—	28	—	—	118	—	—	—	—	—
halibut . . . . .	—	—	45	138	—	—	1,250	252	353	767	259	—
flounders . . . . .	193	—	6,317	11,112	7,384	6,286	3,598	2,522	3,484	7,704	3,421	—
turbot . . . . .	—	—	286	190	0	—	188	317	479	567	117	—
redfish . . . . .	—	—	41,210	39,799	23	—	65,583	10,916	23,473	52,594	39,748	—
wolffish . . . . .	—	—	58	42	9	15	246	21	64	40	30	—
monkfish . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
swordfish . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
tuna . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
herring . . . . .	—	—	—	—	—	—	—	4	—	—	—	99,068
shark . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
scallop . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
crab . . . . .	22,402	19,860	—	—	—	10,026	—	587	—	—	—	—
shrimp . . . . .	—	—	—	—	—	—	—	1,065	—	—	—	—
squid . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
unclassified . . . . .	—	—	93	310	30	67	1,823	32	40	217	119	—
livers and roe . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
<b>Total Value of Landings . . . . .</b>	<b>23,024</b>	<b>19,860</b>	<b>55,394</b>	<b>62,649</b>	<b>14,449</b>	<b>26,209</b>	<b>119,797</b>	<b>26,698</b>	<b>39,040</b>	<b>73,074</b>	<b>51,387</b>	<b>99,068</b>

0 Less than \$0.50.

**Table 14 – Average Prices Received by Fishermen Operating 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels								Steel Vessels		
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
Average Price <sup>1</sup> per lb. in Cents	¢	¢	¢	¢	¢	¢	¢	¢	¢	¢	¢	¢	¢
cod . . . . .	3.71	3.81	3.67	4.15	—	—	—	5.35	5.12	5.97	5.23	5.77	5.62
haddock . . . . .	—	4.67	6.21	6.24	—	—	—	7.11	7.51	7.54	7.38	7.75	7.82
pollock . . . . .	—	2.59	—	2.46	—	—	—	3.25	—	2.72	3.40	3.28	3.37
hake . . . . .	—	3.22	3.36	3.22	—	—	—	2.97	3.51	2.50	2.55	2.56	2.70
cusk . . . . .	—	—	—	3.52	—	—	—	3.64	4.67	2.53	2.27	2.47	2.42
halibut . . . . .	16.60	15.00	—	34.44	—	—	—	33.14	57.06	20.62	22.75	21.39	21.36
flounders . . . . .	1.50	3.82	3.84	4.12	—	—	—	4.86	—	4.20	4.72	4.70	4.04
turbot . . . . .	3.00	2.51	—	—	—	—	—	—	3.50	—	—	—	—
redfish . . . . .	—	2.72	—	3.00	—	—	—	2.43	2.00	3.29	2.77	2.93	2.77
wolffish . . . . .	3.00	3.00	—	4.61	—	—	—	3.09	3.78	3.60	3.25	3.50	3.64
monkfish . . . . .	—	—	—	—	—	—	—	—	—	—	—	2.00	2.00
swordfish . . . . .	—	—	—	—	—	—	—	44.88	53.18	—	—	—	—
tuna . . . . .	—	—	—	—	—	—	—	7.06	12.10	—	—	—	—
herring . . . . .	—	—	—	—	—	0.96	0.94	—	—	—	—	—	—
shark . . . . .	—	—	—	—	—	—	—	8.00	6.56	—	—	—	—
scallop . . . . .	—	—	—	—	87.80	—	—	—	—	—	—	—	—
crab . . . . .	—	—	8.00	—	—	—	—	—	—	—	—	—	—
shrimp . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—
squid . . . . .	—	—	—	—	—	—	—	—	—	5.00	—	—	—
unclassified . . . . .	—	0.15	0.40	—	—	—	—	2.39	—	0.06	0.36	0.25	0.38
livers and roe . . . . .	0.86	—	—	—	—	—	—	—	—	—	—	—	—
Average Price for all Species . . . . .	3.11	3.60	6.89	4.80	87.80	0.96	0.94	14.97	48.15	5.35	4.84	6.39	5.77

**Table 14 – Average Prices Received by Fishermen Operating 103 Fishing Enterprises (cont'd)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
Average price <sup>1</sup> per lb. in Cents	¢	¢	¢	¢	¢	¢	¢	¢	¢	¢	¢	¢
cod . . . . .	4.00	—	4.04	4.00	4.44	4.36	4.05	3.99	4.00	4.01	4.00	—
haddock . . . . .	—	—	6.00	7.26	7.55	7.22	7.36	6.00	6.00	—	6.00	—
pollock . . . . .	—	—	—	3.21	3.00	—	3.24	—	3.00	—	3.00	—
hake . . . . .	—	—	1.80	2.46	2.70	2.50	2.52	1.07	1.02	1.71	1.57	—
cusk . . . . .	—	—	—	2.59	—	—	2.50	—	—	—	—	—
halibut . . . . .	—	—	15.00	13.93	—	—	22.68	26.50	25.63	22.79	16.60	—
flounders . . . . .	3.50	—	3.45	3.78	3.72	3.52	3.97	3.32	3.28	3.28	3.24	—
turbot . . . . .	—	—	2.00	2.17	3.00	—	3.00	1.99	2.00	2.00	2.00	—
redfish . . . . .	—	—	2.75	2.66	2.00	—	3.25	2.75	2.74	2.74	2.75	—
wolffish . . . . .	—	—	2.50	3.13	3.36	3.50	3.47	3.92	4.11	4.00	4.00	—
monkfish . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
swordfish . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
tuna . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
herring . . . . .	—	—	—	—	—	—	—	3.00	—	—	—	0.90
shark . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
scallop . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
crab . . . . .	8.51	8.97	—	—	—	10.00	—	10.00	—	—	—	—
shrimp . . . . .	—	—	—	—	—	—	—	12.00	—	—	—	—
squid . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
unclassified . . . . .	—	—	0.25	0.34	0.38	0.38	0.40	0.28	0.07	0.29	0.07	—
livers and roe . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Average Price for all Species . . . . .	8.24	8.97	2.88	2.92	3.93	4.78	3.35	3.36	2.96	2.88	2.67	0.90

<sup>1</sup>Weighted average per pound as landed. Sale values rounded off to the nearest dollar; the rounding off accounts for small differences in average prices when figures in Table 8 and 11 are used to calculate average prices received for small quantities sold.

**Table 15 – Average Receipts, Expenditures and Net Returns for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels								Steel Vessels		
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Receipts													
fish sales . . . . .	5,990	207,490	12,896	37,698	209,053	63,229	166,116	46,029	123,948	129,675	190,659	200,754	272,696
other fishery receipts . . . . .	63	314	—	—	—	—	—	—	—	—	—	—	—
Total Receipts . . . . .	6,053	207,804	12,896	37,698	209,053	63,229	166,116	46,029	123,948	129,675	190,659	200,754	272,696
Expenditures													
Maintenance and Repairs													
hull . . . . .	17	14,146	714	1,231	8,352	2,126	8,764	1,016	2,672	8,339	12,623	11,160	16,540
engine . . . . .	117	4,919	1,138	1,152	7,664	1,007	14,869	1,749	2,435	7,778	9,049	8,165	12,560
gurdies or winches . . . . .	66	626	251	48	1,310	36	462	81	308	488	1,019	510	903
catching gear . . . . .	127	33,995	1,102	1,953	16,406	1,932	6,866	1,970	4,925	8,979	19,550	23,789	27,794
electronic equipment . . . . .	4	1,045	101	162	1,608	461	1,134	315	988	1,372	1,433	1,677	2,380
power skiff . . . . .	—	—	—	—	—	—	698	—	—	—	—	—	—
sub-total . . . . .	331	54,731	3,306	4,546	35,340	5,562	32,793	5,131	11,328	26,956	43,674	45,301	60,177
Other Operating Expenses													
fuel, oil, grease . . . . .	145	33,934	680	3,076	11,910	1,816	9,816	2,012	7,304	17,394	18,219	21,796	29,448
bait . . . . .	129	—	1,438	—	—	—	—	4,467	12,927	—	—	—	—
ice . . . . .	—	3,114	83	379	1,639	—	—	1,003	1,888	4,500	5,401	5,197	7,051
provisions . . . . .	—	8,867	238	669	7,902	525	3,548	1,986	5,064	6,554	8,997	10,402	10,082
wages . . . . .	—	6,730	92	281	1,360	50	1,029	188	—	2,993	4,981	4,409	6,764
wharfage . . . . .	—	169	—	15	—	50	20	1	4	—	—	—	—
carrier and packer charges . . . . .	—	—	—	—	—	10,189	3,338	—	—	—	—	—	—
miscellaneous . . . . .	15	4,543	232	429	2,426	473	1,162	552	1,010	1,259	1,645	185	1,851
sub-total . . . . .	289	57,357	2,763	4,849	25,237	13,103	18,913	10,209	28,197	32,700	39,243	41,989	55,196

**Table 15 – Average Receipts, Expenditures and Net Returns for 103 Fishing Enterprises (cont'd)  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels							Steel Vessels			
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Fixed charges													
marine insurance <sup>1</sup> . . . . .	183	18,835	461	2,529	7,121	6,450	12,996	3,975	6,009	11,424	11,716	13,445	17,246
crew insurance . . . . .	—	325	186	302	2,809	703	1,280	871	1,378	1,916	2,444	2,800	2,696
workmen's compensation . . . . .	—	2,851	—	—	—	—	—	—	—	—	—	—	—
rentals . . . . .	—	2,978	840	1,647	2,520	—	2,037	498	1,380	2,224	2,685	1,613	4,013
interest <sup>2</sup> . . . . .	59	12,485	283	599	1,243	4,678	7,481	1,755	2,042	3,031	3,035	5,405	10,404
municipal tax . . . . .	—	—	—	22	—	—	—	—	—	—	—	—	—
other . . . . .	15	23	22	21	36	495	368	105	50	325	38	47	144
sub-total . . . . .	257	37,497	1,792	5,120	13,729	12,326	24,162	7,204	10,859	18,920	19,918	23,310	34,503
Total Cash Expenditures . . . . .	877	149,585	7,861	14,515	74,306	30,991	75,868	22,544	50,384	78,576	102,835	110,600	149,876
Net Returns to Labour and to Capital . . . . .	5,176	58,219	5,035	23,183	134,747	32,238	90,248	23,485	73,564	51,099	87,824	90,154	122,820
Distributed as:													
(1) Net Crew Earnings													
(a) commissions and wages . . . . .	—	55,786	387	733	12,844	10,494	13,186	899	6,630	14,383	19,948	19,031	25,187
(b) net cash crew share . . . . .	3,907	42,888	5,470	13,278	95,728	14,282	64,909	16,502	48,238	37,116	54,504	59,210	82,697
sub-total . . . . .	3,907	98,674	5,857	14,011	108,572	24,776	78,095	17,401	54,868	51,499	74,452	78,241	107,884
(2) Net Cash Boat Share . . . . .	1,269	-40,455	-822	9,172	26,175	7,462	12,153	6,084	18,696	-400	13,372	11,913	14,936
less depreciation <sup>3</sup> . . . . .	418	40,228	1,025	2,809	7,370	6,819	15,502	4,217	7,070	11,636	20,124	20,956	33,766
Net Earnings of Boat <sup>4</sup> . . . . .	851	-80,683	-1,847	6,363	18,805	643	-3,349	1,867	11,626	-12,036	-6,752	-9,043	-18,830
as per cent of capital . . . . .	6.4	-7.3	-5.8	11.4	11.2	0.4	-0.8	1.9	7.3	-4.1	-1.2	-1.6	-2.0

<sup>1</sup> Marine insurance is a net cost to fisherman. In Prince Edward Island the rates in 1968 were increased to 9.625 % from 6 % with no rebate for lay-up. In 1968 P.E.I. Department of Fisheries paid 48 % of the premium. The Quebec Department of Industry and Commerce paid the total cost of marine insurance for fishermen-owned vessels and 50 % of the cost for company-owned vessels.

<sup>2</sup> Quebec Department of Industry and Commerce advances interest free loans.

<sup>3</sup> Straight-line depreciation at 7-1/2 % on total capital cost less gear and any federal and provincial grants.

<sup>4</sup> Book profit before income taxes, taking into account operating revenue and expenditures on the balance sheet; in other words, profit/loss statement.

**Table 15 —Average Receipts, Expenditures and Net Returns for 103 Fishing Enterprises (cont'd)  
Atlantic Provinces — 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Receipts</b>												
fish sales . . . . .	23,024	19,860	55,394	62,649	14,449	26,209	119,797	26,698	39,040	73,074	51,387	99,068
other fishery receipts . . . . .	87	4,143	—	276	407	1,225	—	—	—	—	—	—
<b>Total Receipts . . . . .</b>	<b>23,111</b>	<b>24,003</b>	<b>55,394</b>	<b>62,925</b>	<b>14,856</b>	<b>27,434</b>	<b>119,797</b>	<b>26,698</b>	<b>39,040</b>	<b>73,074</b>	<b>51,387</b>	<b>99,068</b>
<b>Expenditures</b>												
<b>Maintenance and Repairs</b>												
hull . . . . .	197	281	197	2,260	663	632	4,315	279	668	2,771	660	3,371
engine . . . . .	1,132	1,496	299	2,094	315	1,424	2,424	122	541	89	846	5,450
gurdies or winches . . . . .	60	120	520	1,319	161	87	185	490	499	2,490	1,130	—
catching gear . . . . .	1,389	643	551	2,142	149	1,216	9,688	1,247	2,624	722	3,136	8,924
electronic equipment . . . . .	42	95	256	503	40	111	1,001	110	368	221	783	562
power skiff . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
sub-total . . . . .	2,820	2,635	1,823	8,318	1,328	3,470	17,613	2,248	4,700	6,293	6,555	18,307
<b>Other Operating Expenses</b>												
fuel, oil, grease . . . . .	1,343	1,332	5,941	7,392	1,039	2,244	16,589	2,813	4,723	8,923	6,490	5,071
bait . . . . .	563	365	—	—	—	379	—	4	—	—	—	—
ice . . . . .	271	231	2,806	3,132	366	664	5,597	452	719	1,844	988	—
provisions . . . . .	478	1,152	1,698	2,417	1,028	1,157	7,310	986	1,319	2,228	1,624	3,115
wages . . . . .	2	—	717	758	396	682	4,027	295	392	953	139	1,290
wharfage . . . . .	93	61	5	—	—	—	—	119	118	130	138	—
carrier and packer charges . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
miscellaneous . . . . .	493	549	757	1,003	512	272	269	370	681	582	681	1,077
Sub-total . . . . .	3,243	3,690	11,924	14,702	3,341	5,398	33,792	5,039	7,952	14,660	10,060	10,553

**Table 15 – Average Receipts, Expenditures and Net Returns for 103 Fishing Enterprises (concluded)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Fixed charges</b>												
marine insurance <sup>1</sup> . . . . .	916	1,428	5,721	10,020	1,304	2,607	8,587	—	—	1,399	—	5,067
crew insurance . . . . .	—	—	—	—	—	—	300	—	—	—	—	—
workmen's compensation . . . . .	—	—	—	—	400	440	1,875	—	—	—	—	—
rentals . . . . .	—	390	—	733	3	1,761	1,204	—	—	—	652	—
interest <sup>2</sup> . . . . .	659	1,054	1,565	3,084	439	1,229	6,087	—	—	242	—	—
municipal tax . . . . .	—	—	—	—	239	—	—	—	—	—	—	—
other . . . . .	40	30	45	46	24	20	—	16	17	17	29	29
sub-total . . . . .	1,615	2,902	7,331	13,883	2,409	6,057	18,053	16	17	1,658	681	5,096
<b>Total Cash Expenditures . . . . .</b>	<b>7,678</b>	<b>9,227</b>	<b>21,078</b>	<b>36,903</b>	<b>7,078</b>	<b>14,925</b>	<b>69,458</b>	<b>7,303</b>	<b>12,669</b>	<b>22,611</b>	<b>17,296</b>	<b>33,956</b>
<b>Net Returns to Labour and to Capital . . . . .</b>	<b>15,433</b>	<b>14,776</b>	<b>34,316</b>	<b>26,022</b>	<b>7,778</b>	<b>12,509</b>	<b>50,339</b>	<b>19,395</b>	<b>26,371</b>	<b>50,463</b>	<b>34,091</b>	<b>65,112</b>
<b>Distributed as:</b>												
(1) Net Crew Earnings												
(a) commissions and wages . . . . .	77	70	977	1,386	1,338	2,071	12,117	—	561	—	2,618	9,411
(b) net cash crew share . . . . .	9,983	9,014	17,029	18,534	3,618	7,472	33,430	11,531	15,809	29,787	18,327	39,627
sub-total . . . . .	10,060	9,084	18,006	19,920	4,956	9,543	45,547	11,531	16,370	29,787	20,945	49,038
(2) Net Cash Boat Share . . . . .	5,373	5,692	16,310	6,102	2,822	2,966	4,792	7,864	10,001	20,676	13,146	16,074
less depreciation <sup>3</sup> . . . . .	2,593	3,782	5,212	8,661	1,655	3,821	13,177	4,012	5,393	9,341	9,999	11,825
<b>Net Earnings of Boat<sup>4</sup> . . . . .</b>	<b>2,780</b>	<b>1,910</b>	<b>11,098</b>	<b>-2,559</b>	<b>1,167</b>	<b>-855</b>	<b>-8,385</b>	<b>3,852</b>	<b>4,608</b>	<b>11,335</b>	<b>3,147</b>	<b>4,249</b>
as per cent of capital . . . . .	5.9	3.0	7.1	-1.3	2.1	-1.2	-2.4	5.3	4.9	5.3	1.3	1.1

**Table 16 – Percentage Distribution of Receipts, Expenditures and Net Returns for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEW FOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels								Steel Vessels		
	Long-Liners	Stern Draggers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
	%	%	%	%	%	%	%	%	%	%	%	%	%
<b>Receipts</b>													
fish sales . . . . .	99.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
other fishery receipts . . . . .	1.0	0.2	—	—	—	—	—	—	—	—	—	—	—
<b>Total Receipts . . . . .</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Expenditures</b>													
<b>Maintenance and Repairs</b>													
hull . . . . .	1.9	9.5	9.1	8.5	11.2	6.9	11.6	4.5	5.3	10.6	12.3	10.1	11.0
engine . . . . .	13.3	3.3	14.5	7.9	10.3	3.2	19.6	7.8	4.8	9.9	8.8	7.4	8.4
gurdies or winches . . . . .	7.6	0.4	3.2	0.3	1.8	0.1	0.6	0.4	0.6	0.6	1.0	0.4	0.6
catching gear . . . . .	14.5	22.7	14.0	13.5	22.1	6.2	9.0	8.7	9.8	11.4	19.0	21.5	18.6
electronic equipment . . . . .	0.5	0.7	1.3	1.1	2.2	1.5	1.5	1.4	2.0	1.8	1.4	1.5	1.6
power skiff . . . . .	—	—	—	—	—	—	0.9	—	—	—	—	—	—
Sub-total . . . . .	37.8	36.6	42.1	31.3	47.6	17.9	43.2	22.8	22.5	34.3	42.5	40.9	40.2
<b>Other Operating Expenses</b>													
fuel, oil, grease . . . . .	16.5	22.7	8.6	21.2	16.0	5.8	12.9	8.9	14.5	22.1	17.7	19.7	19.7
bait . . . . .	14.7	—	18.3	—	—	—	—	19.8	25.7	—	—	—	—
ice . . . . .	—	2.1	1.1	2.6	2.2	—	—	4.5	3.7	5.7	5.3	4.7	4.7
provisions . . . . .	—	5.9	3.0	4.6	10.6	1.7	4.7	8.8	10.1	8.4	8.7	9.4	6.7
wages . . . . .	—	4.5	1.2	1.9	1.8	0.2	1.4	0.8	—	3.8	4.8	4.0	4.5
wharfage . . . . .	—	0.1	—	0.1	—	0.2	0	0	0	—	—	—	—
carrier and packer charges . . . . .	—	—	—	—	—	32.9	4.4	—	—	—	—	—	—
miscellaneous . . . . .	1.7	3.0	2.9	3.0	3.3	1.5	1.5	2.5	2.0	1.6	1.6	0.2	1.2
Sub-total . . . . .	32.9	38.3	35.1	33.4	33.9	42.3	24.9	45.3	56.0	41.6	38.1	38.0	36.8

**Table 16 – Percentage Distribution of Receipts, Expenditures and Net Returns for 103 Fishing Enterprises (cont'd)  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels								Steel Vessels		
	Long-Liners	Stern Draggers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
	%	%	%	%	%	%	%	%	%	%	%	%	%
<b>Fixed Charges</b>													
marine insurance . . . . .	20.9	12.6	5.9	17.4	9.6	20.8	17.1	17.6	11.9	14.6	11.4	12.2	11.5
crew insurance . . . . .	—	0.2	2.4	2.1	3.8	2.3	1.7	3.9	2.7	2.4	2.4	2.5	1.8
workmen's compensation . . . . .	—	1.9	—	—	—	—	—	—	—	—	—	—	—
rentals . . . . .	—	2.0	10.7	11.3	3.4	—	2.7	2.2	2.7	2.8	2.6	1.5	2.7
interest . . . . .	6.7	8.4	3.6	4.1	1.7	15.1	9.9	7.8	4.1	3.9	3.0	4.9	6.9
municipal tax . . . . .	—	—	—	0.2	—	—	—	—	—	—	—	—	—
other . . . . .	1.7	0	0.2	0.2	0	1.6	0.5	0.4	0.1	0.4	0	0	0.1
Sub-total . . . . .	29.3	25.1	22.8	35.3	18.5	39.8	31.9	31.9	21.5	24.1	19.4	21.1	23.0
<b>Total Cash Expenditures . . . . .</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Net Returns to Labour and to Capital. . . . .</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Distributed as:													
(1) Net Crew Earnings													
(a) commissions and wages . . . . .	—	95.8	7.7	3.1	9.5	32.6	14.6	3.8	9.0	28.2	22.7	21.1	20.5
(b) net cash crew share . . . . .	75.5	73.7	108.6	57.3	71.1	44.3	71.9	70.3	65.6	72.6	62.1	65.7	67.3
Sub-total . . . . .	75.5	169.5	116.3	60.4	80.6	76.9	86.5	74.1	74.6	100.8	84.8	86.8	87.8
(2) Net Cash Boat Share . . . . .	24.5	-69.5	-16.3	39.6	19.4	23.1	13.5	25.9	25.4	-0.8	15.2	13.2	12.2

0 Less Than one-half of 0.1 %

**Table 16 – Percentage Distribution of Receipts, Expenditures and Net Returns for 103 Fishing Enterprises (cont'd)**  
**Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	%	%	%	%	%	%	%	%	%	%	%	%
<b>Receipts</b>												
fish sales . . . . .	99.6	82.7	100.0	99.6	97.3	95.5	100.0	100.0	100.0	100.0	100.0	100.0
other fishery receipts . . . . .	0.4	17.3	—	0.4	2.7	4.5	—	—	—	—	—	—
<b>Total Receipts . . . . .</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Expenditures</b>												
<b>Maintenance and Repairs</b>												
hull . . . . .	2.6	3.1	1.0	6.1	9.4	4.2	6.2	3.8	5.3	12.2	3.8	9.9
engine . . . . .	14.7	16.2	1.4	5.7	4.5	9.6	3.5	1.7	4.3	0.4	4.9	16.0
gurdies or winches . . . . .	0.8	1.3	2.5	3.6	2.3	0.6	0.3	6.7	3.9	11.0	6.6	—
catching gear . . . . .	18.1	7.0	2.6	5.8	2.1	8.1	13.9	17.1	20.7	3.2	18.1	26.3
electronic equipment . . . . .	0.5	1.0	1.2	1.4	0.5	0.7	1.4	1.5	2.9	1.0	4.5	1.7
power skiff . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Sub total . . . . .	36.7	28.6	8.7	22.6	18.8	23.2	25.3	30.8	37.1	27.8	37.9	53.9
<b>Other Operating Expenses</b>												
fuel, oil, grease . . . . .	17.5	14.4	28.2	20.0	14.7	15.0	23.9	38.5	37.3	39.4	37.5	14.9
bait . . . . .	7.4	4.0	—	—	—	2.5	—	0.1	—	—	—	—
ice . . . . .	3.5	2.5	13.3	8.5	5.2	4.5	8.1	6.2	5.7	8.2	5.7	—
provisions . . . . .	6.3	12.5	8.1	6.5	14.5	7.8	10.5	13.5	10.4	9.9	9.4	9.2
wages . . . . .	0	—	3.4	2.1	5.6	4.6	5.8	4.0	3.1	4.2	0.8	3.8
wharfage . . . . .	1.2	0.7	0	—	—	—	—	1.6	0.9	0.6	0.8	—
carrier and packer charges . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
miscellaneous . . . . .	6.4	5.9	3.6	2.7	7.2	1.8	0.4	5.1	5.4	2.6	4.0	3.2
Sub-total . . . . .	42.3	40.0	56.6	39.8	47.2	36.2	48.7	69.0	62.8	64.9	58.2	31.1

**Table 16 — Percentage Distribution of Receipts, Expenditures and Net Returns for 103 Fishing Enterprises (concluded)  
Atlantic Provinces — 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	%	%	%	%	%	%	%	%	%	%	%	%
<b>Fixed Charges</b>												
marines insurance . . . . .	11.9	15.5	27.1	27.1	18.4	17.5	12.4	—	—	6.2	—	14.9
crew insurance . . . . .	—	—	—	—	—	—	0.4	—	—	—	—	—
workmen's compensation . . . . .	—	—	—	—	5.7	2.9	2.7	—	—	—	3.8	—
rentals . . . . .	—	4.2	—	2.0	0	11.9	1.7	—	—	—	—	—
interest . . . . .	8.6	11.4	7.4	8.4	6.2	8.2	8.8	—	—	1.1	—	—
municipal tax . . . . .	—	—	—	—	3.4	—	—	—	—	—	—	—
other . . . . .	0.5	0.3	0.2	0.1	0.3	0.1	—	0.2	0.1	0	0.1	0.1
Sub-total . . . . .	21.0	31.4	34.7	37.6	34.0	40.6	26.0	0.2	0.1	7.3	3.9	15.0
Total Cash Expenditures . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Net Returns to Labour and to Capital .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Distributed as:												
(1) Net Crew Earnings												
(a) commissions and wages . . . . .	0.5	0.5	2.9	5.3	17.2	16.6	24.1	—	2.1	—	7.7	14.4
(b) net cash crew share . . . . .	64.7	61.0	49.6	71.3	46.5	59.7	66.4	59.5	60.0	59.0	53.7	60.9
Sub-total . . . . .	65.2	61.5	52.5	76.6	63.7	76.3	90.5	59.5	62.1	59.0	61.4	75.3
(2) Net Cash Boat Share . . . . .	34.8	38.5	47.5	23.4	36.3	23.7	9.5	40.5	37.9	41.0	38.6	24.7

0 Less than one-half of 0.1 %

**Table 17 – Distribution of Gross Receipts to Cash Expenditures, Crew Share and Boat Share for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels							Steel Vessels			
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Average Gross Cash Receipts . . . . .</b>	<b>6,053</b>	<b>207,804</b>	<b>12,896</b>	<b>37,698</b>	<b>209,053</b>	<b>63,229</b>	<b>166,116</b>	<b>46,029</b>	<b>123,948</b>	<b>129,675</b>	<b>190,659</b>	<b>200,754</b>	<b>272,696</b>
<b>Applied to:</b>													
(1) Total Cash Expenditures . . . . .	877	149,585	7,861	14,515	74,306	30,991	75,868	22,544	50,384	78,576	102,835	110,600	149,876
(2) Net Cash Crew Share <sup>1</sup> . . . . .	3,907	98,674	5,857	14,011	108,572	24,776	78,095	17,401	54,868	51,499	74,452	78,241	107,884
(3) Net Cash Boat Share <sup>2</sup> . . . . .	1,269	-40,455	-822	9,172	26,175	7,462	12,153	6,084	18,696	-400	13,372	11,913	14,936
	%	%	%	%	%	%	%	%	%	%	%	%	%
<b>Average Gross Cash Receipts . . . . .</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Applied to:</b>													
(1) Total Cash Expenditures . . . . .	14.5	72.0	61.0	38.5	35.6	49.0	45.7	49.0	40.6	60.6	53.9	55.1	55.0
(2) Net Cash Crew Share . . . . .	64.5	47.5	45.4	37.2	51.9	39.2	47.0	37.8	44.3	39.7	39.1	39.0	39.5
(3) Net Cash Boat Share . . . . .	21.0	-19.5	-6.4	24.3	12.5	11.8	7.3	13.2	15.1	-0.3	7.0	5.9	5.5

**Table 17 – Distribution of Gross Receipts to Cash Expenditures, Crew Share and Boat Share for 103 Fishing Enterprises (Cont'd)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Average Gross Cash Receipts . . . . .</b>	<b>23,111</b>	<b>24,003</b>	<b>55,394</b>	<b>62,925</b>	<b>14,856</b>	<b>27,434</b>	<b>119,797</b>	<b>26,698</b>	<b>39,040</b>	<b>73,074</b>	<b>51,387</b>	<b>99,068</b>
<b>Applied to:</b>												
(1) Total Cash Expenditures . . . . .	7,678	9,227	21,078	36,903	7,078	14,925	69,458	7,303	12,669	22,611	17,296	33,956
(2) Net Cash Crew Share <sup>1</sup> . . . . .	10,060	9,084	18,006	19,920	4,956	9,543	45,547	11,531	16,370	29,787	20,945	49,038
(3) Net Cash Boat Share <sup>2</sup> . . . . .	5,373	5,692	16,310	6,102	2,822	2,966	4,792	7,864	10,001	20,676	13,146	16,074
	%	%	%	%	%	%	%	%	%	%	%	%
<b>Average Gross Cash Receipts . . . . .</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Applied to:</b>												
(1) Total Cash Expenditures . . . . .	33.2	38.4	38.1	58.6	47.6	54.4	58.0	27.4	32.5	30.9	33.7	34.3
(2) Net Cash Crew Share . . . . .	43.5	37.9	32.5	31.7	33.4	34.8	38.0	43.2	41.9	40.8	40.7	49.5
(3) Net Cash Boat Share . . . . .	23.3	23.7	29.4	9.7	19.0	10.8	4.0	29.4	25.6	28.3	25.6	16.2

<sup>1</sup>Net cash crew share includes commissions, bonuses and extra wages.

<sup>2</sup>A minus for "net cash boat share" indicates that the total cash expenditures and net cash crew share, together, exceeded the "gross cash receipts".

**Table 18 – Distribution of Average Net Cash Boat Share for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels								Steel Vessels		
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
<b>Average Net Cash Boat Share<sup>1</sup> . . . . .</b>	\$ 1,269	\$ 40,455	\$ -822	\$ 9,172	\$ 26,175	\$ 7,462	\$ 12,153	\$ 6,084	\$ 18,696	\$ -400	\$ 13,372	\$ 11,913	\$ 14,936
<b>Applied to:</b>													
(1) Principal on loan . . . . .	505	5,714	1,601	2,102	6,919	15,106	11,956	1,677	6,098	7,288	750	22,054	23,642
(2) Cash capital expenditures . .	884	—	693	275	1,284	—	1,006	2,722	1,553	778	258	—	—
(3) Depreciation . . . . .	418	40,228	1,025	2,809	7,370	6,819	15,502	4,217	7,070	11,636	20,124	20,956	33,766
(4) Surplus . . . . .	—	—	—	3,986	10,602	—	—	—	3,975	—	—	—	—
(5) Deficit . . . . .	538	86,397	4,141	—	—	14,463	16,311	2,532	—	20,102	7,760	31,097	42,472
<b>Average Net Cash Boat Share . . . . .</b>	% 100.0	% -100.0	% -100.0	% 100.0	% 100.0	% 100.0	% 100.0	% 100.0	% 100.0	% -100.0	% 100.0	% 100.0	% 100.0
<b>Applied to:</b>													
(1) Principal on loan . . . . .	39.8	14.1	194.8	22.9	26.4	202.4	98.4	27.6	32.6	1,822.0	5.6	185.1	158.3
(2) Cash capital expenditures . .	69.7	—	84.3	3.0	4.9	—	8.3	44.7	8.3	194.5	1.9	—	—
(3) Depreciation . . . . .	32.9	99.4	124.7	30.6	28.2	91.4	127.5	69.3	37.8	2,909.0	150.5	175.9	226.1
(4) Surplus . . . . .	—	—	—	43.5	40.5	—	—	—	21.3	—	—	—	—
(5) Deficit . . . . .	42.4	213.5	503.8	—	—	193.8	134.2	41.6	—	5,025.5	58.0	261.0	284.4

**Table 18 – Distribution of Average Net Cash Boat Share for 103 Fishing Enterprises (cont'd)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
<b>Average Net Cash Boat Share <sup>1</sup> . . .</b>	<b>\$ 5,373</b>	<b>\$ 5,692</b>	<b>\$ 16,310</b>	<b>\$ 6,102</b>	<b>\$ 2,822</b>	<b>\$ 2,966</b>	<b>\$ 4,792</b>	<b>\$ 7,864</b>	<b>\$ 10,001</b>	<b>\$ 20,676</b>	<b>\$ 13,146</b>	<b>\$ 16,074</b>
<b>Applied to:</b>												
(1) Principal on loan . . . . .	1,357	1,630	10,262	2,174	9,532	3,963	3,590	4,351	5,959	14,073	7,850	12,000
(2) Cash capital expenditures . . .	6,460	9,878	—	1,488	1,703	187	—	—	233	—	—	—
(3) Depreciation . . . . .	2,593	3,782	5,212	8,661	1,655	3,821	13,177	4,012	5,393	9,341	9,999	11,825
(4) Surplus . . . . .	—	—	836	—	—	—	—	—	—	—	—	—
(5) Deficit . . . . .	5,037	9,598	—	6,221	10,068	5,005	11,975	499	1,584	2,738	4,703	7,751
<b>Average Net Cash Boat Share . . . . .</b>	<b>% 100.0</b>	<b>% 100.0</b>	<b>% 100.0</b>	<b>% 100.0</b>	<b>% 100.0</b>	<b>% 100.0</b>	<b>% 100.0</b>	<b>% 100.0</b>	<b>% 100.0</b>	<b>% 100.0</b>	<b>% 100.0</b>	<b>% 100.0</b>
<b>Applied to:</b>												
(1) Principal on loan . . . . .	25.3	28.6	62.9	35.6	337.8	133.6	74.9	55.3	59.6	68.1	59.7	74.6
(2) Cash capital expenditures . . .	120.2	173.5	—	24.4	60.3	6.3	—	—	2.3	—	—	—
(3) Depreciation . . . . .	48.2	66.5	32.0	141.9	58.7	128.8	275.0	51.0	53.9	45.2	76.1	73.6
(4) Surplus . . . . .	—	—	5.1	—	—	—	—	—	—	—	—	—
(5) Deficit . . . . .	93.7	168.6	—	101.9	356.8	168.7	249.9	6.3	15.8	13.3	35.8	48.2

<sup>1</sup>For the average enterprise the net cash boat share is applied to retire the principal on outstanding debts and cash capital expenditures, the residual after these two items have been paid, is used to cover depreciation. Anything left after these three items have been paid for is shown as a surplus, and if the payments are greater than the net cash boat share a deficit is shown. The size of the deficit indicates to what extent the depreciation fund had to be used and/or new debts incurred to meet the obligations of debt retirement and/or cash capital expenditures.

**Table 19 – Summary of Average Receipts, Expenditures and Net Returns for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels							Steel Vessels			
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats	5	7	2	4	4	3	3	3	4	3	4	3	4
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Average per Boat</b>													
<b>Receipts</b>	6,053	207,804	12,896	37,698	209,053	63,229	166,116	46,029	123,948	129,675	190,659	200,754	272,696
Range – lowest	3,681	175,752	(1)	22,820	180,544	(1)	(1)	(1)	86,698	(1)	146,848	(1)	242,490
Range – highest	8,888	262,593	(1)	62,650	234,854	(1)	(1)	(1)	153,408	(1)	225,025	(1)	320,735
<b>Total Cash Expenditures</b>	877	149,585	7,861	14,515	74,306	30,991	75,868	22,544	50,384	78,576	102,835	110,600	149,876
Range – lowest	625	126,333	(1)	12,244	62,132	(1)	(1)	(1)	48,387	(1)	95,224	(1)	142,087
Range – highest	1,312	188,004	(1)	16,773	91,494	(1)	(1)	(1)	52,119	(1)	110,003	(1)	155,643
<b>Net Cash Returns to Labour and</b>													
<b>Capital</b>	5,176	58,219	5,035	23,183	134,747	32,238	90,248	23,485	73,564	51,099	87,824	90,154	122,820
Range – lowest	2,791	19,966	(1)	10,576	108,525	(1)	(1)	(1)	36,408	(1)	51,615	(1)	86,847
Range – highest	7,999	100,062	(1)	48,619	172,723	(1)	(1)	(1)	105,020	(1)	124,428	(1)	178,648
<b>Net Cash Crew Share<sup>2</sup></b>	3,907	98,674	5,857	14,011	108,572	24,776	78,095	17,401	54,868	51,499	74,452	78,241	107,884
Range – lowest	1,978	86,379	(1)	9,024	94,976	(1)	(1)	(1)	34,901	(1)	62,749	(1)	95,675
Range – highest	6,032	114,094	(1)	21,672	127,253	(1)	(1)	(1)	76,561	(1)	86,345	(1)	128,747
<b>Net Cash Boat Share</b>	1,269	-40,455	-822	9,172	26,175	7,462	12,153	6,084	18,696	-400	13,372	11,913	14,936
Range – lowest	619	-77,753	(1)	-200	13,549	(1)	(1)	(1)	1,507	(1)	-11,134	(1)	-8,828
Range – highest	1,967	-6,067	(1)	26,947	45,470	(1)	(1)	(1)	28,459	(1)	38,082	(1)	49,901
<b>Depreciation</b>	418	40,228	1,025	2,809	7,370	6,819	15,502	4,217	7,070	11,636	20,124	20,956	33,766
Range – lowest	254	36,853	(1)	2,322	7,141	(1)	(1)	(1)	5,225	(1)	20,080	(1)	33,423
Range – highest	482	43,125	(1)	3,108	7,829	(1)	(1)	(1)	9,650	(1)	20,256	(1)	33,897
<b>Net Earnings of Boat</b>	851	-80,683	-1,847	6,363	18,805	643	-3,349	1,867	11,626	-12,036	-6,752	-9,043	-18,830
Range – lowest	177	-119,307	(1)	-3,308	6,311	(1)	(1)	(1)	-4,945	(1)	-31,390	(1)	-42,725
Range – highest	1,485	-49,192	(1)	23,944	37,640	(1)	(1)	(1)	18,809	(1)	18,003	(1)	16,478
<b>Net Earnings as per cent of Capital</b>	6.4	-7.3	-5.8	11.4	11.2	0.4	-0.8	1.9	7.3	-4.1	-1.2	-1.6	-2.0
Range – lowest	1.4	-10.5	(1)	-6.0	3.8	(1)	(1)	(1)	-3.5	(1)	-5.7	(1)	-4.6
Range – highest	11.0	-4.2	(1)	40.5	21.9	(1)	(1)	(1)	14.3	(1)	3.3	(1)	1.8

**Table 19 – Summary of Average Receipts, Expenditures and Net Returns for 103 Fishing Enterprises (cont'd)**  
**Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Average per Boat</b>												
<b>Receipts . . . . .</b>	<b>23,111</b>	<b>24,003</b>	<b>55,394</b>	<b>62,925</b>	<b>14,856</b>	<b>27,434</b>	<b>119,797</b>	<b>26,698</b>	<b>39,040</b>	<b>73,074</b>	<b>51,387</b>	<b>99,068</b>
Range – lowest . . . . .	(1)	(1)	(1)	47,410	(1)	20,421	106,899	18,253	27,144	(1)	39,520	(1)
Range – highest . . . . .	(1)	(1)	(1)	73,007	(1)	44,054	142,546	38,900	49,898	(1)	58,049	(1)
<b>Total Cash Expenditures . . . . .</b>	<b>7,678</b>	<b>9,227</b>	<b>21,078</b>	<b>36,903</b>	<b>7,078</b>	<b>14,925</b>	<b>69,458</b>	<b>7,303</b>	<b>12,669</b>	<b>22,611</b>	<b>17,296</b>	<b>33,956</b>
Range – lowest . . . . .	(1)	(1)	(1)	33,390	(1)	11,077	64,434	5,347	8,928	(1)	12,958	(1)
Range – highest . . . . .	(1)	(1)	(1)	46,371	(1)	22,775	80,369	10,148	18,935	(1)	19,538	(1)
<b>Net Cash Returns to Labour and</b>												
<b>Capital . . . . .</b>	<b>15,433</b>	<b>14,776</b>	<b>34,316</b>	<b>26,022</b>	<b>7,778</b>	<b>12,509</b>	<b>50,339</b>	<b>19,395</b>	<b>26,371</b>	<b>50,463</b>	<b>34,091</b>	<b>65,112</b>
Range – lowest . . . . .	(1)	(1)	(1)	13,793	(1)	9,135	40,480	12,361	17,127	(1)	26,562	(1)
Range – highest . . . . .	(1)	(1)	(1)	35,078	(1)	21,279	62,177	30,692	39,015	(1)	38,511	(1)
<b>Net Cash Crew Share<sup>2</sup> . . . . .</b>	<b>10,060</b>	<b>9,084</b>	<b>18,006</b>	<b>19,920</b>	<b>4,956</b>	<b>9,543</b>	<b>45,547</b>	<b>11,531</b>	<b>16,370</b>	<b>29,787</b>	<b>20,945</b>	<b>49,038</b>
Range – lowest . . . . .	(1)	(1)	(1)	14,385	(1)	7,526	40,763	7,775	10,261	(1)	15,974	(1)
Range – highest . . . . .	(1)	(1)	(1)	22,690	(1)	15,006	54,624	17,211	23,101	(1)	23,742	(1)
<b>Net Cash Boat Share . . . . .</b>	<b>5,373</b>	<b>5,692</b>	<b>16,310</b>	<b>6,102</b>	<b>2,822</b>	<b>2,966</b>	<b>4,792</b>	<b>7,864</b>	<b>10,001</b>	<b>20,676</b>	<b>13,146</b>	<b>16,074</b>
Range – lowest . . . . .	(1)	(1)	(1)	-8,386	(1)	1,241	-284	3,627	3,538	(1)	10,588	(1)
Range – highest . . . . .	(1)	(1)	(1)	13,772	(1)	6,273	8,147	13,481	15,914	(1)	14,769	(1)
<b>Depreciation . . . . .</b>	<b>2,593</b>	<b>3,782</b>	<b>5,212</b>	<b>8,661</b>	<b>1,655</b>	<b>3,821</b>	<b>13,177</b>	<b>4,012</b>	<b>5,393</b>	<b>9,341</b>	<b>9,999</b>	<b>11,825</b>
Range – lowest . . . . .	(1)	(1)	(1)	7,527	(1)	3,570	13,113	3,368	5,119	(1)	8,941	(1)
Range – highest . . . . .	(1)	(1)	(1)	9,375	(1)	3,982	13,259	4,426	5,689	(1)	10,667	(1)
<b>Net Earnings of Boat . . . . .</b>	<b>2,780</b>	<b>1,910</b>	<b>11,098</b>	<b>2,559</b>	<b>1,167</b>	<b>-855</b>	<b>-8,385</b>	<b>3,852</b>	<b>4,608</b>	<b>11,335</b>	<b>3,147</b>	<b>4,249</b>
Range – lowest . . . . .	(1)	(1)	(1)	17,000	(1)	2,521	13,397	58	2,151	(1)	1,647	(1)
Range – highest . . . . .	(1)	(1)	(1)	5,067	(1)	2,703	5,059	9,420	10,642	(1)	4,636	(1)
<b>Net Earning as per cent of Capital . . . . .</b>	<b>5.9</b>	<b>3.0</b>	<b>7.1</b>	<b>-1.3</b>	<b>2.1</b>	<b>-1.2</b>	<b>-2.4</b>	<b>5.3</b>	<b>4.9</b>	<b>5.3</b>	<b>1.3</b>	<b>1.1</b>
Range – lowest . . . . .	(1)	(1)	(1)	-9.1	(1)	-3.7	-3.8	-0.1	-2.0	(1)	0.8	(1)
Range – highest . . . . .	(1)	(1)	(1)	2.7	(1)	3.5	-1.4	12.6	11.8	(1)	1.9	(1)

<sup>1</sup> Only two or three boats in these groups, therefore ranges are omitted.

<sup>2</sup> Includes commissions, bonuses and extra wages.

**Table 20 – Average Changes in Book Inventory Values for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels								Steel Vessels		
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Average Book Inventory Values</b>													
As at January 1, 1968 . . . . .	11,707	1,079,624	21,252	39,733	118,166	151,357	371,699	73,628	137,646	170,853	472,718	481,676	851,144
plus purchases . . . . .	1,119	—	693	275	1,546	—	1,495	2,722	1,553	1,138	560	—	—
less losses . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—
less sales . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—
less depreciation . . . . .	418	40,228	1,025	2,809	7,370	6,819	15,502	4,217	7,070	11,636	20,124	20,956	33,766
As at December 31, 1968 . . . . .	12,408	1,039,396	20,920	37,199	112,342	144,538	357,692	72,133	132,129	160,355	453,154	460,720	817,378
Net Change in Book Values . . . . .	701	-40,228	-332	-2,534	-5,824	-6,819	-14,007	-1,495	-5,517	-10,498	-19,564	-20,956	-33,766

**Table 20 — Average Changes in Book Inventory Values for 103 Fishing Enterprises (cont'd)  
Atlantic Provinces — 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Average Book Inventory Values</b>												
As at January 1, 1968 . . . . .	14,169	16,605	156,451	175,929	21,703	40,707	333,881	57,501	71,504	207,241	193,159	352,524
plus purchases . . . . .	6,460	9,878	—	1,488	1,703	187	—	—	233	—	—	—
less losses . . . . .	466	2,125	—	—	21,751	—	—	—	—	—	—	—
less sales . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
less depreciation . . . . .	2,593	3,782	5,212	8,661	1,655	3,821	13,177	4,012	5,393	9,341	9,999	11,825
As at December 31, 1968 . . . . .	17,570	20,576	151,239	168,756	0	37,073	320,704	53,489	66,344	197,900	183,160	340,699
Net Change in Book Values . . . . .	3,401	3,971	-5,212	-7,173	-21,703	3,634	-13,177	-4,012	-5,160	-9,341	-9,999	-11,825

**Table 21 – Average Capital Expenditures and Changes in Debt Position for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels							Steel Vessels			
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Average Capital Expenditures per Boat</b>													
Hull . . . . .	46	—	—	—	1,192	—	705	732	863	1,138	225	—	—
Engines . . . . .	—	—	84	175	—	—	—	—	90	—	—	—	—
Electronic equipment . . . . .	—	—	—	—	354	—	790	35	600	—	335	—	—
Winch, gallows, gurdies . . . . .	—	—	289	—	—	—	—	—	—	—	—	—	—
Miscellaneous . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—
Fishing gear . . . . .	1,073	—	320	100	—	—	—	1,955	—	—	—	—	—
Total Expenditures of which:	1,119	—	693	275	1,546	—	1,495	2,722	1,553	1,138	560	—	—
paid in cash . . . . .	884	—	693	275	1,284	—	1,006	2,722	1,553	778	258	—	—
on credit . . . . .	235	—	—	—	262	—	489	—	—	360	302	—	—
<b>Average Changes in Debt Position</b>													
<b>Principal payment to:</b>													
Fishermen's loan board . . . . .	263	—	1,601	2,102	4,624	6,645	5,826	1,217	6,098	7,288	—	22,054	23,642
Other creditors . . . . .	242	5,714	—	—	2,295	8,461	6,130	460	—	—	750	—	—
Total Paid in 1968 . . . . .	505	5,714	1,601	2,102	6,919	15,106	11,956	1,677	6,098	7,288	750	22,054	23,642
Net Debts in 1968 <sup>1</sup> . . . . .	267	—	—	76	262	4,468	2,641	3,340	—	360	2,831	—	—
Net Change in Debt Position <sup>2</sup> . . . . .	-238	-5,714	-1,601	-2,026	-6,657	-10,638	-9,315	1,663	-6,098	-6,928	2,081	-22,054	-23,642

**Table 21 – Average Capital Expenditures and Changes in Debt Position for 103 Fishing Enterprises (cont'd)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet. . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>Average Capital Expenditures per Boat</b>												
Hull . . . . .	55	2,150	—	452	—	—	—	—	—	—	—	—
Engines . . . . .	—	—	—	618	—	—	—	—	—	—	—	—
Electronic equipment. . . . .	953	2,528	—	418	1,703	187	—	—	103	—	—	—
Winch, gallows, gurdies . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous . . . . .	—	—	—	—	—	—	—	—	130	—	—	—
Fishing gear . . . . .	5,452	5,200	—	—	—	—	—	—	—	—	—	—
Total Expenditures of which: . . . . .	6,460	9,878	—	1,488	1,703	187	—	—	233	—	—	—
paid in cash . . . . .	5,549	9,196	—	—	1,703	187	—	—	233	—	—	—
on credit . . . . .	911	682	—	1,488	—	—	—	—	—	—	—	—
<b>Average Changes in Debt Position</b>												
<b>Principal payments to:</b>												
Fishermen's loan board . . . . .	1,357	1,055	10,262	750	9,532	3,963	3,590	3,812	5,436	10,235	7,222	12,000
Other creditors . . . . .	—	575	—	1,424	—	—	—	539	523	3,838	628	—
Total Paid in 1968 . . . . .	1,357	1,630	10,262	2,174	9,532	3,963	3,590	4,351	5,959	14,073	7,850	12,000
Net Debts in 1968 <sup>1</sup> . . . . .	1,309	5,992	—	6,723	—	—	—	152	61	—	—	—
Net Change in Debt Position <sup>2</sup> . . . . .	-48	4,362	-10,262	4,549	-9,532	-3,963	-3,590	-4,199	-5,898	-14,073	-7,850	-12,000

<sup>1</sup> The difference between capital expenditures obtained on credit and new debts in 1968 is accounted for by debts incurred during the year by operating expenditures of the enterprise.

<sup>2</sup> A minus indicates a reduction and a plus an increase in the size of debt for the year 1968.

**Table 22 – Average Net Returns to Labour and to Capital Per Owner for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels							Steel Vessels			
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
number of owners <sup>1</sup> . . . . .	7	7	2	4	17	9	4	3	6	3	4	3	12
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Average Net Earnings per Owner <sup>2</sup>													
With 2.5% ownership of boat . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	412
" 5.0% " " " . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	824
" 10.0% " " " . . . . .	-	-	-	-	2,992	-	-	-	-	-	-	-	-
" 15.0% " " " . . . . .	-	-	-	-	1,438	-	-	-	-	-	-	-	-
" 20.0% " " " . . . . .	-	-	-	-	8,540	3,114	-	-	-	-	-	-	-
" 24.5% " " " . . . . .	-	-	-	-	9,222	-	-	-	-	-	-	-	-
" 25.0% " " " . . . . .	-	-	-	-	4,037	-	-	-	12,619	-	-	-	8,861
" 30.0% " " " . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	25,847
" 33.3% " " " . . . . .	-	-	-	-	-	1,435	598	-	-	-	-	-	-
" 50.0% " " " . . . . .	2,052	-	-	-	-	-	-	-	16,519	-	-	-	-
" 51.0% " " " . . . . .	-	-	-	-	39,105	-	-	-	-	-	-	-	-
" 66.7% " " " . . . . .	-	-	-	-	-	-	16,377	-	-	-	-	-	-
" 75.0% " " " . . . . .	-	-	-	-	-	-	-	-	15,346	-	-	-	-
" 100.0% " " " . . . . .	1,873	-80,683	-1,847	9,996	15,121	2,859	- 5,920	5,252	6,932	-8,378	-6,752	-9,043	-30,599

**Table 22 – Average Net Returns to Labour and to Capital Per Owner for 103 Fishing Enterprises (Cont'd)  
Atlantic Provinces – 1968**

	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
number of owners <sup>1</sup> . . . . .	3	3	2	6	2	5	4	15	7	2	4	2
Average Net Earnings per Owner <sup>2</sup>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
With 2.5% ownership of boat . . . . .	-	-	-	-	-	-	-	-	-	-	-	-
" 5.0% " " " . . . . .	-	-	-	-	-	-	-	-	-	-	-	-
" 10.0% " " " . . . . .	-	-	-	-	-	-	-	-	-	-	-	-
" 15.0% " " " . . . . .	-	-	-	-	-	-	-	-	-	-	-	-
" 20.0% " " " . . . . .	-	-	-	-	-	-	-	-	-	-	-	-
" 24.5% " " " . . . . .	-	-	-	-	-	-	-	-	-	-	-	-
" 25.0% " " " . . . . .	-	-	-	-	-	-	-	-	-	-	-	-
" 30.0% " " " . . . . .	-	-	-	-	-	-	-	-	-	-	-	-
" 33.3% " " " . . . . .	-	-	-	-	-	-	-	-	-	-	-	-
" 50.0% " " " . . . . .	-	4,612	-	-	-	-	-	-	-	-	-	-
" 51.0% " " " . . . . .	-	-	-	-	-	-	-	-	-	-	-	-
" 66.7% " " " . . . . .	-	-	-	-	-	-	-	-	-	-	-	-
" 75.0% " " " . . . . .	-	-	-	-	-	-	-	-	-	-	-	-
" 100.0% " " " . . . . .	6,502	2,368	14,625	280	2,885	612	-8,385	6,942	8,338	14,485	7,216	4,249

<sup>1</sup>For the number of owners who are manager-owners and/or silent partners see Table 4.

<sup>2</sup>Net returns to labour and capital includes the net cash crew share where the owner is a member of the crew and the return capital. The latter is a net return after depreciation has been deducted.

**Table 23 — Average Prices Necessary to Break-Even for 103 Fishing Enterprises  
Atlantic Provinces — 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels								Steel Vessels		
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
net cash crew share per man <sup>1</sup> . . .	1,294	6,651	2,669	4,626	7,022	2,968	9,958	2,955	7,328	4,999	5,199	4,805	6,459
1. Net earnings of boat share . .	851	- 80,683	- 1,847	6,363	18,805	643	- 3,349	1,867	11,626	- 12,036	- 6,752	- 9,043	- 18,830
2. Actual fish sales . . . . .	5,990	207,490	12,896	37,698	209,053	63,229	166,116	46,029	123,948	129,675	190,659	200,754	272,696
3. Other fishery receipts . . . . .	63	314	—	—	—	—	—	—	—	—	—	—	—
4. Total receipts (2 + 3) . . . . .	6,053	207,804	12,896	37,698	209,053	63,229	166,116	46,029	123,948	129,675	190,659	200,754	272,696
5. Receipts required to BE (4-1)	5,202	288,487	14,743	31,335	190,248	62,586	169,463	44,162	112,322	141,711	197,411	209,797	291,526
6. Fish sales required to BE (5-3) . . . . .	5,139	288,173	14,743	31,335	190,248	62,586	169,463	44,162	112,322	141,711	197,411	209,797	291,526
7. Ratio necessary to actual fish sales (6 ÷ 2) % . . . . .	85.79	138.89	114.32	83.12	91.00	98.98	102.01	95.94	90.62	109.28	103.54	104.50	106.91
8. Actual prices received in cents per lb. . . . .	3.113	3.597	6.889	4.803	87.802	0.961	0.937	14.971	48.150	5.353	4.837	6.390	5.774
9. Price necessary to BE (8 x 7)	2.671	4.396	7.876	3.992	79.900	0.951	0.956	14.363	43.634	5.850	5.008	6.678	6.173
10. Principal payments on loans	505	5,714	1,601	2,102	6,919	15,106	11,956	1,677	6,098	7,288	750	22,054	23,642
11. Losses . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—
12. Total (10 + 11) . . . . .	505	5,714	1,601	2,102	6,919	15,106	11,956	1,677	6,098	7,288	750	22,054	23,642
13. Receipts required to BE and cover principal payments and losses (5 + 12) . . . . .	5,707	294,201	16,344	33,437	197,167	77,692	181,419	45,839	118,420	148,999	198,161	231,851	315,168
14. Ratio to necessary (13 ÷ 5) . .	109.71	101.98	110.86	106.71	103.64	124.14	107.06	103.80	105.43	105.14	100.38	110.51	108.11
15. Price necessary to BE and cover principal payments and losses (9 x 14) . . . . .	2.930	5.095	8.731	4.260	82.808	1.181	1.023	14.909	46.003	6.151	5.027	7.380	6.674
16. Actual output in lb. . . . .	192,435	5,769,186	187,183	784,902	238,097	6,578,080	17,786,910	307,460	257,418	2,422,618	3,941,380	3,141,651	4,722,668
17. Necessary output to BE at actual prices received (16 x 7)	165,090	8,012,822	213,988	652,411	216,668	6,510,984	18,144,427	294,977	233,272	2,647,437	4,080,905	3,283,025	5,049,004
18. Necessary output of fish to BE and cover requirements in 12 at actual prices received (13 - 3) ÷ 8 . . . . .	180,244	8,170,336	237,248	696,169	224,559	8,084,495	19,361,686	306,185	245,940	2,783,467	4,096,775	3,628,341	5,458,400

**Table 23 — Average Prices Necessary to Break-Even for 103 Fishing Enterprises (Cont'd)**  
**Atlantic Provinces — 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
net cash crew share per man <sup>1</sup> . . .	3,584	2,489	3,752	3,533	1,182	2,612	4,916	3,034	3,891	5,855	4,190	6,130
1. Net earnings of boat share . . .	2,780	1,910	11,098	- 2,559	1,167	- 855	- 8,385	3,852	4,608	11,335	3,147	4,249
2. Actual fish sales . . . . .	23,024	19,860	55,394	62,649	14,449	26,209	119,797	26,698	39,040	73,074	51,387	99,068
3. Other fishery receipts . . . . .	87	4,143	—	276	407	1,225	—	—	—	—	—	—
4. Total receipts (2 + 3) . . . . .	23,111	24,003	55,394	62,925	14,856	27,434	119,797	26,698	39,040	73,074	51,387	99,068
5. Receipts required to BE (4 - 1)	20,331	22,093	44,296	65,484	13,689	28,289	128,182	22,846	34,432	61,739	48,240	94,819
6. Fish sales required to BE (5-3)	20,244	17,950	44,296	65,208	13,282	27,064	128,182	22,846	34,432	61,739	48,240	94,819
7. Ratio necessary to actual fish sales (6 ÷ 2) % . . . . .	87.93	90.38	79.97	104.08	91.92	103.26	107.00	85.57	88.20	84.49	93.88	95.71
8. Actual prices received in cents per lb. . . . .	8.235	8.972	2.884	2.917	3.926	4.781	3.348	3.365	2.958	2.876	2.670	0.902
9. Price necessary to BE (8 x 7)	7.241	8.109	2.306	3.036	3.609	4.937	3.582	2.879	2.609	2.430	2.507	0.863
10. Principal payments on loans. . .	1,357	1,630	10,262	2,174	9,532	3,963	3,590	4,351	5,959	14,073	7,850	12,000
11. Losses . . . . .	466	2,125	—	—	21,751	—	—	—	—	—	—	—
12. Total (10 + 11) . . . . .	1,823	3,755	10,262	2,174	31,283	3,963	3,590	4,351	5,959	14,073	7,850	12,000
13. Receipts required to BE and cover principal payments and losses (5 + 12) . . . . .	22,154	25,848	54,558	67,658	44,972	32,252	131,772	27,197	40,391	75,812	56,090	106,819
14. Ratio to necessary (13 ÷ 5) . . .	108.97	117.00	123.17	103.32	328.53	114.01	102.80	119.04	117.31	122.79	116.27	112.66
15. Price necessary to BE and cover principal payments and losses (9 x 14) . . . . .	7.891	9.488	2.840	3.137	11.857	5.629	3.682	3.427	3.061	2.984	2.915	0.972
16. Actual output in lb. . . . .	279,581	221,356	1,920,612	2,147,682	368,000	548,148	3,577,825	793,405	1,319,708	2,540,973	1,924,973	11,007,600
17. Necessary output to BE at actual prices received (16 x 7)	245,836	200,062	1,535,913	2,235,307	338,264	566,018	3,828,273	678,917	1,163,982	2,146,868	1,807,165	10,535,374
18. Necessary output to fish to BE and cover requirements in 12 at actual prices received (13 - 3) ÷ 8 . . . . .	267,966	241,919	1,891,748	2,309,976	1,135,125	648,965	3,935,842	808,232	1,365,483	2,636,022	2,100,749	11,842,461

<sup>1</sup>At break-even prices in 1968, the net cash crew share per man (including wages and commissions) as well as operating expenditures and depreciation are covered, and there is no surplus or deficit for the boat account.

<sup>2</sup>Item 15 includes actual principal payments made or collected to retire mortgages and other debts.

<sup>3</sup>Items 17 and 18 take into account other fishery receipts.

**Table 24 – Summary of Fishing Effort and Returns Per Man for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels								Steel Vessels		
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
<b>Average</b>													
Days at Sea per Man . . . . .	62	267	54	80	187	*	173	105	228	207	249	264	252
Range – lowest . . . . .	12	51	27	14	112	*	3	4	39	9	11	251	48
Range – highest . . . . .	72	295	62	87	225	*	213	125	237	223	258	268	287
Days at Sea and Ashore per Man . . . . .	62	267	84	118	199	*	187	128	254	237	279	301	285
Range – lowest . . . . .	12	51	32	20	117	*	3	4	40	10	12	274	54
Range – highest . . . . .	72	295	89	165	268	*	218	192	271	277	301	309	338
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Net Cash Crew Share per Man per Day at Sea <sup>2</sup> . . . . .	20.87	24.91	49.42	57.83	37.55	*	57.56	28.14	32.14	24.15	20.88	18.20	25.63
Range – lowest . . . . .	12.16	13.22	37.00	25.11	27.49	*	39.77	5.19	5.12	13.82	13.34	12.96	17.05
Range – highest . . . . .	30.01	73.63	61.00	89.43	88.48	*	110.01	38.38	72.24	49.65	56.95	50.46	79.24
Net Cash Crew Share per Day Worked <sup>2</sup> . . . . .	20.87	24.91	33.09	39.71	35.40	*	54.24	23.04	28.83	21.09	18.63	15.92	22.64
Range – lowest . . . . .	12.16	13.22	26.64	17.13	26.61	*	31.45	5.19	5.00	12.13	12.19	11.14	15.15
Range – highest . . . . .	30.01	73.63	37.90	69.01	80.54	*	101.80	31.46	67.14	39.61	49.45	46.10	69.42
Net Cash Crew Share per Man per Season <sup>2</sup> . . . . .	1,294	6,651	2,669	4,626	7,022	4,129	9,958	2,955	7,328	4,999	5,199	4,805	6,459
Range – lowest . . . . .	150	839	1,213	786	5,571	1,072	236	21	200	157	201	3,510	1,049
Range – highest . . . . .	2,011	20,241	3,125	7,027	19,909	10,501	21,682	4,117	17,123	10,974	14,638	13,323	20,904
Total Net Cash Returns per Owner . . . . .	2,273	-40,455	-822	12,805	9,389	4,799	12,910	9,469	17,191	3,258	13,372	11,913	7,511
Range – lowest . . . . .	1,300	-49,511	(1)	-200	2,032	(1)	(1)	(1)	1,507	(1)	-11,134	(1)	-8,828
Range – highest . . . . .	3,977	-6,067	(1)	33,069	43,098	(1)	(1)	(1)	28,459	(1)	38,082	(1)	35,874
Depreciation per Owner . . . . .	298	40,228	1,025	2,809	1,734	2,273	11,626	4,217	4,713	11,636	20,124	20,956	11,255
Range – lowest . . . . .	127	36,853	(1)	2,322	714	(1)	(1)	(1)	1,738	(1)	20,080	(1)	836
Range – highest . . . . .	482	43,125	(1)	3,108	7,270	(1)	(1)	(1)	9,650	(1)	20,256	(1)	33,897
Net Earnings per Owner . . . . .	1,975	-80,683	-1,847	9,996	7,655	2,526	1,284	5,252	12,478	-8,378	-6,752	-9,043	-3,744
Range – lowest . . . . .	858	-119,307	(1)	-3,308	947	(1)	(1)	(1)	-4,945	(1)	-31,390	(1)	-42,725
Range – highest . . . . .	3,496	-49,192	(1)	30,066	39,105	(1)	(1)	(1)	18,809	(1)	18,003	(1)	25,847

**Table 24 – Summary of Fishing Effort and Returns Per Man for 103 Fishing Enterprises (cont'd)**  
**Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
<b>Average</b>												
Days at Sea per Man . . . . .	131	*	142	150	52	94	235	130	140	167	134	*
Range – lowest . . . . .	12	*	80	6	26	3	6	29	13	9	84	*
Range – highest . . . . .	147	*	158	180	73	114	261	164	178	186	157	*
Days at Sea and Ashore per Man . . . . .	165	*	163	191	52	94	235	148	156	183	159	*
Range – lowest . . . . .	13	*	89	7	26	3	6	31	15	10	101	*
Range – highest . . . . .	195	*	183	221	73	114	261	174	189	195	188	*
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Net Cash Crew Share per Man per Day at Sea <sup>2</sup> . . . . .	27.36	*	26.42	23.55	22.73	27.79	20.92	23.34	27.79	35.06	31.27	*
Range – lowest . . . . .	22.06	*	21.08	8.57	15.12	12.86	5.33	10.49	11.80	33.87	19.93	*
Range – highest . . . . .	31.46	*	29.82	48.74	37.34	53.46	44.46	34.00	49.47	36.91	58.61	*
Net Cash Crew Share per Day Worked <sup>2</sup> . . . . .	21.76	*	23.03	18.66	22.73	27.79	20.92	20.55	24.82	31.89	26.29	*
Range – lowest . . . . .	17.73	*	18.42	7.50	15.12	12.86	5.33	9.22	10.23	31.34	16.13	*
Range – highest . . . . .	24.79	*	25.74	42.97	37.34	53.46	44.46	31.49	40.98	33.22	46.55	*
Net Cash Crew Share per Man per Season <sup>2</sup> . . . . .	3,584	2,489	3,752	3,533	1,182	2,612	4,916	3,034	3,891	5,855	4,190	6,130
Range – lowest . . . . .	270	692	1,993	60	469	73	75	408	153	332	2,033	4,052
Range – highest . . . . .	4,625	2,857	4,711	7,263	2,726	6,094	11,614	4,402	5,737	6,300	6,565	11,710
Total Net Cash Returns per Owner . . . . .	9,095	6,386	19,837	8,941	4,540	4,433	4,792	10,954	13,731	23,826	17,215	16,074
Range – lowest . . . . .	(1)	(1)	(1)	-8,386	(1)	1,818	-284	5,811	3,538	(1)	14,074	(1)
Range – highest . . . . .	(1)	(1)	(1)	15,858	(1)	6,273	8,148	17,883	21,651	(1)	20,037	(1)
Depreciation per Owner . . . . .	2,593	2,522	5,212	8,661	1,655	3,821	13,177	4,012	5,393	9,341	9,999	11,825
Range – lowest . . . . .	(1)	(1)	(1)	7,527	(1)	3,570	13,113	3,368	5,119	(1)	8,941	(1)
Range – highest . . . . .	(1)	(1)	(1)	9,375	(1)	3,982	13,258	4,426	5,689	(1)	10,667	(1)
Net Earnings per Owner . . . . .	6,502	3,864	14,625	280	2,885	612	-8,385	6,942	8,338	14,485	7,216	4,249
Range – lowest . . . . .	(1)	(1)	(1)	-17,000	(1)	-2,048	-13,397	2,126	-2,151	(1)	4,636	(1)
Range – highest . . . . .	(1)	(1)	(1)	8,527	(1)	2,703	5,059	13,822	16,379	(1)	9,723	(1)

<sup>1</sup> Only two or three enterprises in sample for these groups, therefore ranges are omitted.

<sup>2</sup> The average net cash crew share includes wages and commissions.

\* Information incomplete.

**Table 25 – Summary of Average Fishing Effort and Landed Values for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels								Steel Vessels		
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers	Stern Trawlers	
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
<b>Average Per Boat</b>													
gross tonnage . . . . .	14.6	587.3	35.5	47.9	139.9	77.4	181.7	93.0	133.9	228.0	289.1	359.0	628.7
number of men . . . . .	3.0	14.8	2.1	3.0	15.4	6.0	7.7	5.9	7.5	10.3	14.3	16.3	16.7
number of trips . . . . .	63	28	47	38	15	59	63	16	15	25	27	29	27
days at sea per trip . . . . .	1.0	9.5	1.2	2.1	12.5	*	2.8	6.7	14.9	8.3	9.3	9.2	9.5
days at sea . . . . .	63	267	54	80	187	*	173	106	228	207	249	264	253
hours fishing . . . . .	484	3,148	362	560	2,839	*	427	860	2,108	2,786	2,835	3,112	3,224
number of lines fished <sup>1</sup> . . . . .	2,501	—	—	—	—	—	—	12,094	87,189	—	—	—	—
number of sets . . . . .	62	1,599	61	277	4,810	*	129	172	163	1,105	1,444	1,906	1,965
investment per man in \$ . . . . .	4,463	74,888	15,102	18,543	10,877	25,976	52,932	16,257	21,322	28,770	38,496	28,804	55,004
<b>Average Landed Value Per</b>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Boat . . . . .	5,990	207,490	12,896	37,698	209,053	63,229	166,116	46,029	123,948	129,675	190,659	200,754	272,696
Man . . . . .	1,997	14,020	6,141	12,566	13,574	10,538	21,574	7,802	16,526	12,590	13,333	12,316	16,329
Trip . . . . .	95	7,410	274	992	13,937	*	2,637	2,877	8,263	5,187	7,061	6,923	10,100
Day at sea per boat . . . . .	95	777	239	471	1,118	*	960	434	544	626	766	760	1,078
Hour of fishing per boat . . . . .	12.38	65.91	35.62	67.32	73.64	*	389.03	53.52	58.80	46.55	67.25	64.51	84.58
Man-day at sea . . . . .	32.03	52.40	109.29	155.78	72.31	*	122.50	74.48	72.61	60.82	53.48	46.72	64.80
Man-hour of fishing . . . . .	4.13	4.45	16.96	22.44	4.78	*	50.52	9.07	7.84	4.52	4.70	3.96	5.06

**Table 25 – Summary of Average Fishing Effort and Landed Values for 103 Fishing Enterprises (Cont'd)**  
**Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
<b>Average Per Boat</b>												
gross tonnage . . . . .	26.0	43.5	103.5	122.5	51.7	69.0	171.1	48.6	67.3	123.4	126.8	151.4
number of men . . . . .	2.8	3.6	4.8	5.6	4.2	3.6	9.2	3.8	4.2	5.1	5.0	8.0
number of trips . . . . .	74	*	20	20	9	33	30	25	24	30	22	52
days at sea per trip . . . . .	1.8	*	7.1	7.5	5.8	2.9	7.8	5.2	5.9	5.7	6.1	*
days at sea . . . . .	132	*	142	150	52	94	235	131	141	169	135	*
hours fishing . . . . .	790	*	1,627	1,686	*	877	1,942	1,697	1,729	2,096	1,801	*
number of lines fished <sup>1</sup> . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
number of sets . . . . .	161	*	508	614	*	320	859	469	498	577	585	*
investment per man in \$ . . . . .	16,921	17,455	32,773	35,180	13,165	19,956	38,309	19,118	22,328	41,758	48,719	46,477
<b>Average Landed Value Per</b>												
Boat . . . . .	\$ 23,024	\$ 19,860	\$ 55,394	\$ 62,649	\$ 14,449	\$ 26,209	\$ 119,797	\$ 26,698	\$ 39,040	\$ 73,074	\$ 51,387	\$ 99,068
Man . . . . .	8,223	5,517	11,540	11,187	3,440	7,280	13,021	7,026	9,295	14,328	10,277	12,384
Trip . . . . .	311	*	2,770	3,132	1,605	794	3,993	1,068	1,627	2,436	2,336	1,905
Day at sea per boat . . . . .	174	*	390	418	278	279	510	204	277	432	381	*
Hour of fishing per boat . . . . .	29.14	*	34.05	37.16	*	29.88	61.69	15.73	22.58	34.86	28.53	*
Man-day at sea . . . . .	62.57	*	81.22	74.05	66.28	76.41	55.03	54.04	66.51	95.97	76.70	*
Man-hour of fishing . . . . .	10.41	*	7.09	6.64	*	8.30	6.71	4.14	5.38	6.84	5.71	*

<sup>1</sup>Refer to Table 5 for quantities of other gear used.

\*Information not available.

**Table 26 – Summary of Fishing Effort, Fish Landings and Values for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels								Steel Vessels		
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
Average Per Boat													
Days at Sea . . . . .	63	267	54	80	187	59	173	106	228	207	249	264	253
Range – lowest . . . . .	52	239	(1)	73	146	(1)	(1)	(1)	224	(1)	229	(1)	198
Range – highest . . . . .	72	295	(1)	87	225	(1)	(1)	(1)	235	(1)	258	(1)	287
Hours of Fishing . . . . .	484	3,148	362	560	2,839	*	427	860	2,108	2,786	2,835	3,112	3,224
Range – lowest . . . . .	362	2,556	(1)	495	1,866	*	(1)	(1)	1,651	(1)	2,738	(1)	2,136
Range – highest . . . . .	584	3,759	(1)	698	4,172	*	(1)	(1)	2,629	(1)	2,913	(1)	3,687
Lines Fished . . . . .	2,501	—	—	—	—	—	—	12,094	87,189	—	—	—	—
Range – lowest . . . . .	1,898	—	—	—	—	—	—	(1)	49,658	—	—	—	—
Range – highest . . . . .	3,212	—	—	—	—	—	—	(1)	186,542	—	—	—	—
	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
Total Landings . . . . .	192,435	5,769,186	187,183	784,902	238,097	6,578,080	17,786,910	307,460	257,418	2,422,618	3,941,380	3,141,651	4,722,668
Range – lowest . . . . .	117,113	4,581,070	(1)	419,594	206,021	(1)	(1)	(1)	183,866	(1)	3,182,209	(1)	3,949,997
Range – highest . . . . .	284,359	7,167,305	(1)	1,216,341	267,216	(1)	(1)	(1)	326,915	(1)	4,599,208	(1)	5,412,776
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Total Value of Landings . . . . .	5,990	207,490	12,896	37,698	209,053	63,229	166,116	46,029	123,948	129,675	190,659	200,754	272,696
Range – lowest . . . . .	3,631	175,752	(1)	22,820	180,544	(1)	(1)	(1)	86,698	(1)	146,848	(1)	242,490
Range – highest . . . . .	8,833	262,593	(1)	62,650	234,854	(1)	(1)	(1)	153,408	(1)	225,025	(1)	320,735

**Table 26 – Summary of Fishing Effort, Fish Landings and Values for 103 Fishing Enterprises (Cont'd)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
Average Per Boat												
Days at Sea . . . . .	132	*	142	150	52	94	235	131	141	169	135	*
Range – lowest . . . . .	(1)	*	(1)	120	(1)	70	216	99	111	(1)	112	*
Range – highest . . . . .	(1)	*	(1)	180	(1)	114	261	164	178	(1)	157	*
Hours of Fishing . . . . .	790	*	1,627	1,686	*	877	1,942	1,697	1,729	2,096	1,801	*
Range – lowest . . . . .	(1)	*	(1)	1,249	*	789	1,788	1,115	1,299	(1)	1,230	*
Range – highest . . . . .	(1)	*	(1)	2,113	*	1,041	2,160	2,392	2,335	(1)	2,253	*
Lines Fished . . . . .	–	–	–	–	–	–	–	–	–	–	–	–
Range – lowest . . . . .	–	–	–	–	–	–	–	–	–	–	–	–
Range – highest . . . . .	–	–	–	–	–	–	–	–	–	–	–	–
	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
Total Landings . . . . .	279,581	221,356	1,920,612	2,147,682	368,000	548,148	3,577,825	793,405	1,319,708	2,540,973	1,924,973	11,007,600
Range – lowest . . . . .	(1)	(1)	(1)	1,659,690	(1)	503,023	3,267,962	428,214	960,587	(1)	1,378,755	(1)
Range – highest . . . . .	(1)	(1)	(1)	2,429,924	(1)	595,881	4,124,659	1,270,653	1,515,660	(1)	2,278,875	(1)
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Total Value of Landings . . . . .	23,024	19,860	55,394	62,649	14,449	26,209	119,797	26,698	39,040	73,074	51,387	99,068
Range – lowest . . . . .	(1)	(1)	(1)	47,410	(1)	19,622	106,899	18,253	27,144	(1)	39,520	(1)
Range – highest . . . . .	(1)	(1)	(1)	73,007	(1)	40,679	142,546	38,900	49,898	(1)	58,049	(1)

<sup>1</sup>Only two or three boats in sample for these groups, therefore the ranges are omitted.  
\*Information not available.

**Table 27 – Summary of Landed Weights for Various Units of Effort for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	NEWFOUNDLAND		NOVA SCOTIA										
	Wooden	Steel	Wooden Vessels							Steel Vessels			
	Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	5	7	2	4	4	3	3	3	4	3	4	3	4
	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
Average Landed Weight <sup>1</sup> Per													
Trip . . . . .	3,074	204,996	3,983	20,387	15,873	110,866	282,332	19,625	16,879	96,905	147,341	109,592	178,213
Range – lowest . . . . .	154	11,200	300	72	4,095	*	15,220	6,499	438	2,335	18,574	21,142	31,282
Range – highest . . . . .	9,576	360,700	29,540	95,685	28,041	*	660,000	53,195	47,320	230,059	248,347	278,495	398,810
Day at Sea per Boat . . . . .	3,074	21,619	3,435	9,842	1,275	*	102,617	2,909	1,130	11,722	15,844	11,915	18,666
Range – lowest . . . . .	2,161	16,780	3,166	5,748	1,040	*	79,070	2,082	820	10,058	12,678	11,326	15,310
Range – highest . . . . .	4,244	25,597	3,638	14,833	1,483	*	123,252	3,747	1,379	14,256	17,895	12,790	27,337
Hour of Fishing Per Boat . . . . .	397	1,832	516	1,401	83	*	41,656	358	122	988	1,390	1,009	1,464
Range – lowest . . . . .	304	1,428	440	829	49	*	24,077	219	107	843	1,095	931	1,103
Range – highest . . . . .	486	2,187	583	2,248	116	*	56,508	489	143	1,142	1,653	1,106	2,534
Man per Season . . . . .	64,575	388,310	87,062	259,472	15,385	1,096,347	2,280,373	52,707	34,322	232,199	275,620	192,739	284,498
Range – lowest . . . . .	32,704	291,787	74,408	139,864	13,643	849,666	1,735,442	34,244	23,274	156,191	213,517	175,659	230,993
Range – highest . . . . .	94,786	527,007	98,065	392,368	17,020	1,499,190	2,909,999	63,195	46,044	300,052	317,188	203,418	340,426
Man-day at Sea . . . . .	1,027	1,456	1,580	3,240	82	*	13,111	497	151	1,136	1,105	731	1,122
Range – lowest . . . . .	590	1,072	1,577	1,915	69	*	10,232	336	103	884	851	679	896
Range – highest . . . . .	1,414	1,878	1,583	4,714	98	*	15,749	691	193	1,364	1,230	771	1,719
Man-hour of Fishing . . . . .	132	123	239	463	5	*	5,347	61	16	96	97	62	87
Range – lowest . . . . .	82	91	220	276	3	*	3,127	35	14	81	73	56	64
Range – highest . . . . .	162	160	253	725	8	*	7,244	91	18	108	114	67	159

**Table 27 – Summary of Landed Weights for Various Units of Effort for 103 Fishing Enterprises (Cont'd)**  
**Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
Average Landed Weight <sup>1</sup> Per												
Trip . . . . .	3,795	*	96,030	105,624	40,889	16,814	118,275	31,736	55,317	86,135	88,504	213,740
Range – lowest . . . . .	*	*	18,090	8,497	11,464	615	4,080	2,302	4,900	13,802	3,785	*
Range – highest . . . . .	*	*	137,498	175,879	64,234	73,001	200,987	63,445	90,338	130,921	147,338	*
Day at Sea per Boat . . . . .	2,113	*	13,573	14,350	7,077	5,831	15,224	6,075	9,369	15,036	14,528	*
Range – lowest . . . . .	1,916	*	12,234	12,477	4,335	4,766	13,448	3,892	6,910	14,470	8,781	*
Range – highest . . . . .	2,421	*	14,632	15,680	8,241	7,186	16,874	8,399	14,375	15,727	18,378	*
Hour of Fishing per Boat . . . . .	354	*	1,180	1,274	*	625	1,842	467	763	1,213	1,068	*
Range – lowest . . . . .	288	*	1,083	1,063	*	572	1,512	275	604	1,190	611	*
Range – highest . . . . .	416	*	1,255	1,558	*	658	2,199	607	1,078	1,239	1,673	*
Man per Season . . . . .	99,850	60,646	400,127	381,245	89,756	150,590	387,840	210,266	314,216	508,195	381,182	1,375,950
Range – lowest . . . . .	83,670	52,936	332,445	353,125	33,602	135,952	347,655	129,762	246,304	478,093	299,729	1,125,550
Range – highest . . . . .	124,835	69,990	462,394	411,851	143,235	164,645	463,444	317,663	382,609	538,296	411,676	1,626,350
Man-day at Sea . . . . .	760	*	2,818	2,539	1,688	1,596	1,643	1,606	2,408	2,991	2,874	*
Range – lowest . . . . .	639	*	2,636	2,273	1,084	1,441	1,416	1,106	1,749	2,866	1,888	*
Range – highest . . . . .	848	*	2,952	2,948	1,928	1,659	1,830	2,100	2,875	3,145	3,675	*
Man-hour of Fishing . . . . .	125	*	244	224	*	172	199	123	182	243	212	*
Range – lowest . . . . .	96	*	235	193	*	155	160	82	154	238	133	*
Range – highest . . . . .	173	*	251	283	*	199	247	156	234	248	334	*

<sup>1</sup>Product weight i.e. as offered for sale.

\*Information not available.

Table 28 – Total Landings by Ports by 103 Fishing Enterprises  
Atlantic Provinces – 1968

Item	Total All Types	NEWFOUNDLAND		NOVA SCOTIA										
		Wooden	Steel	Wooden Vessels								Steel Vessels		
		Long-liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	—	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	103	5	7	2	4	4	3	3	3	4	3	4	3	4
l	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
Newfoundland														
Twillingate . . . . .	962,174	962,174	—	—	—	—	—	—	—	—	—	—	—	—
Riverhead . . . . .	1,806,070	—	—	—	—	—	1,806,070	—	—	—	—	—	—	—
Bonavista . . . . .	256,544	—	256,544	—	—	—	—	—	—	—	—	—	—	—
Marystown . . . . .	21,587,422	—	20,841,822	—	—	—	745,600	—	—	—	—	—	—	—
Fortune . . . . .	200,530	—	200,530	—	—	—	—	—	—	—	—	—	—	—
Grand Bank . . . . .	19,085,409	—	19,085,409	—	—	—	—	—	—	—	—	—	—	—
Harbour Breton . . . . .	25,183,450	—	—	—	—	—	1,794,870	23,388,580	—	—	—	—	—	—
Isle aux Morts . . . . .	4,073,200	—	—	—	—	—	—	4,073,200	—	—	—	—	—	—
Nova Scotia														
Sandy Cove . . . . .	112,065	—	—	—	112,065	—	—	—	—	—	—	—	—	—
Little River . . . . .	867,220	—	—	—	867,220	—	—	—	—	—	—	—	—	—
East Ferry . . . . .	1,011,596	—	—	—	1,011,596	—	—	—	—	—	—	—	—	—
Saulnierville . . . . .	5,127,751	—	—	—	—	479,151	4,648,600	—	—	—	—	—	—	—
Yarmouth . . . . .	9,427,358	—	—	—	709,769	—	8,190,100	251,980	—	45,509	—	—	—	—
Wedgeport . . . . .	44,450	—	—	—	44,450	—	—	—	—	—	—	—	—	—
Pubnico . . . . .	2,623,180	—	—	—	—	—	2,090,000	533,180	—	—	—	—	—	—
Lower East Pubnico . . . . .	8,693,600	—	—	—	—	—	—	8,693,600	—	—	—	—	—	—
Middle West Pubnico . . . . .	289,549	—	—	—	289,549	—	—	—	—	—	—	—	—	—
Clark's Harbour . . . . .	104,957	—	—	—	104,957	—	—	—	—	—	—	—	—	—
Lockeport . . . . .	9,779,475	—	—	—	—	—	—	—	388,428	18,850	7,267,853	—	269,633	—
Port Mouton . . . . .	267,216	—	—	—	—	267,216	—	—	—	—	—	—	—	—
Liverpool . . . . .	148,675	—	—	—	—	—	—	—	148,675	—	—	—	—	—
Riverport . . . . .	273,069	—	—	—	—	206,021	—	—	—	67,048	—	—	—	—
Lunenburg . . . . .	34,153,279	—	—	—	—	—	—	2,188,800	—	—	—	9,092,820	9,155,320	13,477,894
Northwest Cove . . . . .	731,857	—	—	—	—	—	—	—	105,246	626,611	—	—	—	—
Sambro . . . . .	98,919	—	—	—	—	—	—	—	98,919	—	—	—	—	—
Halifax . . . . .	3,236,229	—	—	—	—	—	—	—	87,594	4,592	—	2,893,601	—	—
Port Bickerton . . . . .	3,746,091	—	—	—	—	—	—	—	93,517	—	—	3,652,574	—	—
Canso . . . . .	3,513,358	—	—	—	—	—	—	810,000	—	—	—	—	—	2,703,358
Mulgrave . . . . .	2,709,418	—	—	—	—	—	—	—	—	—	—	—	—	2,709,418
Louisburg . . . . .	130,618	—	—	—	—	—	—	—	—	4,093	—	126,525	—	—
North Sydney . . . . .	1,960,615	—	—	—	—	—	—	—	—	262,970	—	—	—	—
Cheticamp . . . . .	478,593	—	—	344,826	—	—	—	—	—	—	—	—	—	—
New Brunswick														
Grand Manan . . . . .	459,000	—	—	—	—	—	459,000	—	—	—	—	—	—	—
Robichaud . . . . .	36,900	—	—	—	—	—	—	—	—	—	—	—	—	—
Loggieville . . . . .	3,378,810	—	—	—	—	—	—	3,378,810	—	—	—	—	—	—
Lameque . . . . .	2,904,881	—	—	—	—	—	—	—	—	—	—	—	—	—
Shippegan . . . . .	6,985,433	—	—	—	—	—	—	44,800	—	—	—	—	—	—
Caraquet . . . . .	13,289,062	—	—	—	—	—	—	3,553,230	—	—	—	—	—	—
Prince Edward Island														
Souris . . . . .	15,163,958	—	—	29,540	—	—	—	—	—	—	—	—	—	—
Quebec														
St. Maurice . . . . .	10,695	—	—	—	—	—	—	—	—	—	—	—	—	—
Riviere aux Renards . . . . .	10,698,475	—	—	—	—	—	—	—	—	—	—	—	—	—
Anse au Griffon . . . . .	24,786	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandy Beach . . . . .	6,994,691	—	—	—	—	—	—	—	—	—	—	—	—	—
Ste. Therese . . . . .	39,537	—	—	—	—	—	—	—	—	—	—	—	—	—
Grande Riviere . . . . .	60,638	—	—	—	—	—	—	—	—	—	—	—	—	—
Chandler . . . . .	18,363	—	—	—	—	—	—	—	—	—	—	—	—	—
Newport . . . . .	3,483,696	—	—	—	—	—	—	—	—	—	—	—	—	—
Paspébiac . . . . .	167,660	—	—	—	—	—	—	—	—	—	—	—	—	—
Amherst . . . . .	354,649	—	—	—	—	—	—	—	—	—	—	—	—	—
Havre Aubert . . . . .	3,563,063	—	—	—	—	—	—	—	—	—	—	—	—	—
Cap aux Meules . . . . .	25,844,064	—	—	—	—	—	—	6,444,550	—	—	—	—	—	—
Etang du Nord . . . . .	108,529	—	—	—	—	—	—	—	—	—	—	—	—	—
Riviere au Tonnerre . . . . .	1,354,711	—	—	—	—	—	—	—	—	—	—	—	—	—
Not Recorded . . . . .	6,316,200	—	—	—	—	—	—	—	—	—	—	—	—	—
Grand Total . . . . .	263,941,738	962,174	40,384,305	374,366	3,139,606	952,388	19,734,240	53,360,730	922,379	1,029,673	7,267,853	15,765,520	9,424,953	18,890,670

**Table 28 – Total Landings by Ports by 103 Fishing Enterprises (cont'd)**  
**Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
Newfoundland												
Twillingate . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Riverhead . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Bonavista . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Marystown . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Fortune . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Grand Bank . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Harbour Breton . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Isle-aux-Morts . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia												
Sandy Cove . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Little River . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
East Ferry . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Saulnierville . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Yarmouth . . . . .	—	—	—	—	—	—	—	—	—	—	—	230,000
Wedgeport . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Pubnico . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Lower East Pubnico . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Middle West Pubnico . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Clark's Harbour . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Lockeport . . . . .	—	—	—	382,474	—	—	1,452,237	—	—	—	—	—
Port Mouton . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Liverpool . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Riverport . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Lunenburg . . . . .	—	—	—	—	—	—	238,445	—	—	—	—	—
Northwest Cove . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Sambro . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Halifax . . . . .	—	—	—	—	—	—	250,442	—	—	—	—	—
Port Bickerton . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Canso . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Mulgrave . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Louisburg . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
North Sydney . . . . .	—	—	—	833,829	296,346	—	567,470	—	—	—	—	—
Cheticamp . . . . .	—	—	—	—	—	133,767	—	—	—	—	—	—

**Table 28 – Total Landings by Ports by 103 Fishing Enterprises (concluded)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
New Brunswick												
Grand Manan . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Robichaud . . . . .	—	—	—	—	—	—	—	36,900	—	—	—	—
Loggieville . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Lamegue . . . . .	288,126	—	89,695	2,352,970	—	—	—	174,090	—	—	—	—
Shippegan . . . . .	550,617	417,660	2,231,013	3,369,392	—	—	—	218,930	153,021	—	—	—
Caraquet . . . . .	—	—	1,423,039	5,662,339	—	—	—	119,764	118,690	—	—	2,412,000
Prince Edward Island												
Souris . . . . .	—	—	—	285,089	439,654	2,606,971	11,802,704	—	—	—	—	—
Quebec												
St. Maurice . . . . .	—	—	—	—	—	—	—	—	—	—	10,695	—
Riviere aux Renards . . . . .	—	—	—	—	—	—	—	4,601,147	3,865,124	2,158,948	73,256	—
Anse au Griffon . . . . .	—	—	—	—	—	—	—	24,786	—	—	—	—
Sandy Beach . . . . .	—	—	—	—	—	—	—	3,528,432	63,705	2,140,933	1,261,621	—
Ste. Therese . . . . .	—	—	—	—	—	—	—	39,537	—	—	—	—
Grande Riviere . . . . .	—	6,690	—	—	—	—	—	53,948	—	—	—	—
Chandler . . . . .	—	18,363	—	—	—	—	—	—	—	—	—	—
Newport . . . . .	—	—	—	—	—	—	—	1,968,933	1,514,763	—	—	—
Paspebiac . . . . .	—	—	—	—	—	—	—	—	—	167,660	—	—
Amherst . . . . .	—	—	—	—	—	—	—	138,022	—	216,627	—	—
Havre Aubert . . . . .	—	—	—	—	—	—	—	—	965,160	—	2,597,903	—
Cap aux Meules . . . . .	—	—	97,476	—	—	—	—	58,183	2,174,374	289,249	3,723,232	13,057,000
Etang du Nord . . . . .	—	—	—	—	—	—	—	—	—	108,529	—	—
Riviere au Tonnerre . . . . .	—	—	—	—	—	—	—	938,405	383,123	—	33,183	—
Not Recorded . . . . .	—	—	—	—	—	—	—	—	—	—	—	6,316,200
<b>Grand Total . . . . .</b>	<b>838,743</b>	<b>442,713</b>	<b>3,841,223</b>	<b>12,886,093</b>	<b>736,000</b>	<b>2,740,738</b>	<b>14,311,298</b>	<b>11,901,077</b>	<b>9,237,960</b>	<b>5,081,946</b>	<b>7,699,890</b>	<b>22,015,200</b>

Table 29 – Percentage Distribution of Total Landings by Ports by 103 Fishing Enterprises  
Atlantic Provinces – 1968

Item	Total All Types	NEWFOUNDLAND		NOVA SCOTIA										
		Wooden	Steel	Wooden Vessels								Steel Vessels		
		Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	—	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	103	5	7	2	4	4	3	3	3	4	3	4	3	4
	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Newfoundland														
Twillingate . . . . .	0.4	100.0	—	—	—	—	—	—	—	—	—	—	—	—
Riverhead . . . . .	0.7	—	—	—	—	—	9.2	—	—	—	—	—	—	—
Bonavista . . . . .	0.1	—	0.6	—	—	—	—	—	—	—	—	—	—	—
Marystown . . . . .	8.2	—	51.6	—	—	—	3.8	—	—	—	—	—	—	—
Fortune . . . . .	0.1	—	0.5	—	—	—	—	—	—	—	—	—	—	—
Grand Bank . . . . .	7.2	—	47.3	—	—	—	—	—	—	—	—	—	—	—
Harbour Breton . . . . .	9.6	—	—	—	—	—	9.1	43.8	—	—	—	—	—	—
Isle aux Morts . . . . .	1.6	—	—	—	—	—	—	7.6	—	—	—	—	—	—
Nova Scotia														
Sandy Cove . . . . .	0	—	—	—	3.6	—	—	—	—	—	—	—	—	—
Little River . . . . .	0.3	—	—	—	27.6	—	—	—	—	—	—	—	—	—
East Ferry . . . . .	0.4	—	—	—	32.2	—	—	—	—	—	—	—	—	—
Saulnierville . . . . .	2.0	—	—	—	—	50.3	23.5	—	—	—	—	—	—	—
Yarmouth . . . . .	3.6	—	—	—	22.6	—	41.5	0.5	—	4.4	—	—	—	—
Wedgeport . . . . .	0	—	—	—	1.4	—	—	—	—	—	—	—	—	—
Pubnico . . . . .	1.0	—	—	—	—	—	—	10.6	1.0	—	—	—	—	—
Lower East Pubnico . . . . .	3.3	—	—	—	—	—	—	—	16.3	—	—	—	—	—
Middle West Pubnico . . . . .	0.1	—	—	—	9.2	—	—	—	—	—	—	—	—	—
Clark's Harbour . . . . .	0	—	—	—	3.4	—	—	—	—	—	—	—	—	—
Lokeport . . . . .	3.7	—	—	—	—	—	—	—	42.1	1.8	100.0	—	2.9	—
Port Mouton . . . . .	0.1	—	—	—	—	—	—	—	—	—	—	—	—	—
Liverpool . . . . .	0.1	—	—	—	—	28.1	—	—	16.1	—	—	—	—	—
Riverport . . . . .	0.1	—	—	—	—	21.6	—	—	—	6.5	—	—	—	—
Lunenburg . . . . .	12.9	—	—	—	—	—	—	4.1	—	—	—	57.7	97.1	71.4
Northwest Cove . . . . .	0.3	—	—	—	—	—	—	—	11.4	60.9	—	—	—	—
Sambro . . . . .	0	—	—	—	—	—	—	—	10.7	—	—	—	—	—
Halifax . . . . .	1.2	—	—	—	—	—	—	—	9.5	0.5	—	18.3	—	—
Port Bickerton . . . . .	1.4	—	—	—	—	—	—	—	10.2	—	—	23.2	—	—
Canso . . . . .	1.3	—	—	—	—	—	—	1.5	—	—	—	—	—	14.3
Mulgrave . . . . .	1.0	—	—	—	—	—	—	—	—	—	—	—	—	14.3
Louisburg . . . . .	0	—	—	—	—	—	—	—	—	0.4	—	0.8	—	—
North Sydney . . . . .	0.7	—	—	—	—	—	—	—	—	25.5	—	—	—	—
Cheticamp . . . . .	0.2	—	—	92.1	—	—	—	—	—	—	—	—	—	—
New Brunswick														
Grand Manan . . . . .	0.2	—	—	—	—	—	2.3	—	—	—	—	—	—	—
Robichaud . . . . .	0	—	—	—	—	—	—	—	—	—	—	—	—	—
Loggieville . . . . .	1.3	—	—	—	—	—	—	6.3	—	—	—	—	—	—
Lamèque . . . . .	1.1	—	—	—	—	—	—	—	—	—	—	—	—	—
Shippegan . . . . .	2.6	—	—	—	—	—	—	0.1	—	—	—	—	—	—
Caraquet . . . . .	5.0	—	—	—	—	—	—	6.7	—	—	—	—	—	—
Prince Edward Island														
Souris . . . . .	5.8	—	—	7.9	—	—	—	—	—	—	—	—	—	—
Quebec														
St. Maurice . . . . .	0	—	—	—	—	—	—	—	—	—	—	—	—	—
Riviere aux Renards . . . . .	4.1	—	—	—	—	—	—	—	—	—	—	—	—	—
Anse au Griffon . . . . .	0	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandy Beach . . . . .	2.7	—	—	—	—	—	—	—	—	—	—	—	—	—
Ste. Therese . . . . .	0	—	—	—	—	—	—	—	—	—	—	—	—	—
Grande Riviere . . . . .	0	—	—	—	—	—	—	—	—	—	—	—	—	—
Chandler . . . . .	0	—	—	—	—	—	—	—	—	—	—	—	—	—
Newport . . . . .	1.3	—	—	—	—	—	—	—	—	—	—	—	—	—
Paspebiac . . . . .	0.1	—	—	—	—	—	—	—	—	—	—	—	—	—
Amherst . . . . .	0.1	—	—	—	—	—	—	—	—	—	—	—	—	—
Havre Aubert . . . . .	1.4	—	—	—	—	—	—	—	—	—	—	—	—	—
Cap aux Meules . . . . .	9.8	—	—	—	—	—	—	12.1	—	—	—	—	—	—
Etang du Nord . . . . .	0	—	—	—	—	—	—	—	—	—	—	—	—	—
Riviere au Tonerre . . . . .	0.5	—	—	—	—	—	—	—	—	—	—	—	—	—
Not Recorded . . . . .	2.4	—	—	—	—	—	—	—	—	—	—	—	—	—
Grand Total . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

0 Less than one-half of 0.1%.

**Table 29 – Percentage Distribution of Total Landings by Ports by 103 Fishing Enterprises (Cont'd)**  
**Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	%	%	%	%	%	%	%	%	%	%	%	%
Newfoundland												
Twillingate . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Riverhead . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Bonavista . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Marystown . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Fortune . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Grand Bank . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Harbour Breton . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Isle aux Morts . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia												
Sandy Cove . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Little River . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
East Ferry . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Saulnierville . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Yarmouth . . . . .	—	—	—	—	—	—	—	—	—	—	—	1.0
Wedgeport . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Pubnico . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Lower East Pubnico . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Middle West Pubnico . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Clark's Harbour . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Lockeport . . . . .	—	—	—	3.0	—	—	10.1	—	—	—	—	—
Port Mouton . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Liverpool . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Riverport . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Lunenburg . . . . .	—	—	—	—	—	—	1.7	—	—	—	—	—
Northwest Cove . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Sambro . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Halifax . . . . .	—	—	—	—	—	—	1.7	—	—	—	—	—
Port Bickerton . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Canso . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Mulgrave . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Louisburg . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
North Sydney . . . . .	—	—	—	6.5	40.3	—	4.0	—	—	—	—	—
Cheticamp . . . . .	—	—	—	—	—	4.9	—	—	—	—	—	—

**Table 29 – Percentage Distribution of Total Landings by Ports by 103 Fishing Enterprises (concluded)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	%	%	%	%	%	%	%	%	%	%	%	%
New Brunswick												
Grand Manan . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Robichaud . . . . .	—	—	—	—	—	—	—	0.3	—	—	—	—
Loggieville . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Lamegue . . . . .	34.4	—	2.3	18.3	—	—	—	1.5	—	—	—	—
Shippegan . . . . .	65.6	94.4	58.1	26.1	—	—	—	1.8	1.7	—	—	—
Caraquet . . . . .	—	—	37.1	43.9	—	—	—	1.0	1.3	—	—	11.0
Prince Edward Island												
Souris . . . . .	—	—	—	2.2	59.7	95.1	82.5	—	—	—	—	—
Quebec												
St. Maurice . . . . .	—	—	—	—	—	—	—	—	—	0.1	—	—
Rivière-aux-Renards . . . . .	—	—	—	—	—	—	—	38.7	41.8	1.0	42.5	—
Anse-au-Griffon . . . . .	—	—	—	—	—	—	—	0.2	—	—	—	—
Sandy Beach . . . . .	—	—	—	—	—	—	—	29.6	0.7	16.4	42.1	—
Ste. Thérèse . . . . .	—	—	—	—	—	—	—	0.3	—	—	—	—
Grande-Rivière . . . . .	—	1.5	—	—	—	—	—	0.5	—	—	—	—
Chandler . . . . .	—	4.1	—	—	—	—	—	—	—	—	—	—
Newport . . . . .	—	—	—	—	—	—	—	16.5	16.4	—	—	—
Pasbébiac . . . . .	—	—	—	—	—	—	—	—	—	—	3.3	—
Amherst . . . . .	—	—	—	—	—	—	—	1.2	—	—	4.3	—
Havre-Aubert . . . . .	—	—	—	—	—	—	—	—	10.5	33.7	—	—
Cap-aux-Meules . . . . .	—	—	2.5	—	—	—	—	0.5	23.5	48.4	5.7	59.3
Étang-du-Nord . . . . .	—	—	—	—	—	—	—	—	—	—	2.1	—
Rivière-au-Tonnerre . . . . .	—	—	—	—	—	—	—	7.9	4.1	0.4	—	—
Not Recorded . . . . .	—	—	—	—	—	—	—	—	—	—	—	28.7
Grand Total . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

0 Less than one-half of 0.1%.

**Table 30 – Total Landings of Fish by Statistical Fishing Areas for 103 Fishing Enterprises  
Atlantic Provinces – 1968**

Item	Total All Types	NEWFOUNDLAND		NOVA SCOTIA										
		Wooden	Steel	Wooden Vessels								Steel Vessels		
		Long-Liners	Stern Trawlers	Crabbers	Stern Draggers	Scallop Draggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	—	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	103	5	7	2	4	4	3	3	3	4	3	4	3	4
Statistical Fishing Areas	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
Sub-Area 3														
K . . . . .	1,313,847	962,174	361,673	—	—	—	—	—	—	—	—	—	—	—
L . . . . .	20,945,869	—	19,269,246	—	—	—	—	—	—	58,237	—	675,159	—	943,227
M . . . . .	159,767	—	159,767	—	—	—	—	—	—	—	—	—	—	—
N . . . . .	5,689,528	—	5,689,528	—	—	—	—	—	—	—	—	—	—	—
O . . . . .	4,088,067	—	3,937,399	—	—	—	—	—	9,077	141,591	—	—	—	—
P(n) . . . . .	7,787,992	—	—	—	—	—	—	7,318,740	—	—	—	—	—	—
P(s) . . . . .	32,202,416	—	6,339,973	—	—	—	4,346,540	19,785,960	—	2,591	—	1,223,881	—	503,471
Sub-Area 4A														
A . . . . .	5,530,960	—	—	—	—	—	—	—	—	9,788	—	2,245,593	—	—
B . . . . .	176,745	—	—	—	65,695	—	—	—	—	—	—	111,050	—	—
C . . . . .	10,840,489	—	3,065,462	—	—	—	—	—	23,733	210,750	—	4,438,907	—	2,914,461
D . . . . .	697,688	—	—	—	—	—	—	—	—	—	—	—	—	361,520
E . . . . .	174,832	—	—	—	—	—	—	—	—	3,017	—	107,315	—	—
F . . . . .	383,277	—	189,982	—	—	—	—	—	39,163	39,471	35,674	78,987	—	—
G . . . . .	226,950	—	—	—	—	—	—	—	41,727	129,808	—	55,415	—	—
H . . . . .	1,210,792	—	—	—	—	—	—	—	18,406	4,497	—	1,135,596	—	52,293
J . . . . .	1,398,605	—	—	—	—	—	—	—	5,474	62,142	—	538,151	105,119	617,345
K . . . . .	150,034	—	—	—	—	—	—	—	9,551	—	—	119,052	—	—
L . . . . .	5,013,390	—	—	—	37,453	—	—	1,338,280	309,915	49,724	220,337	1,111,438	544,762	1,019,136
M . . . . .	9,478,311	—	—	—	48,764	—	4,204,666	4,419,313	234,805	—	51,441	—	50,526	468,796
N . . . . .	9,645,625	—	—	—	150,964	—	—	2,737,033	86,442	44,607	2,524,734	879,478	1,032,627	895,819
D . . . . .	11,676,573	—	—	—	200,062	—	5,624,900	3,610,134	66,604	—	1,019,621	158,534	298,713	66,722
P . . . . .	11,325,848	—	—	—	24,078	23,603	—	—	66,604	—	2,171,228	186,918	3,761,284	4,280,914
Q . . . . .	4,755,942	—	—	—	76,035	—	3,858,800	—	—	—	801,628	—	19,479	—
R . . . . .	3,476,697	—	—	—	1,737,151	—	1,699,334	—	—	—	24,993	—	15,219	—
S . . . . .	807,465	—	—	—	799,404	—	—	—	—	—	8,061	—	—	—
Sub-Area 4B														
A . . . . .	464,000	—	—	—	—	—	—	—	—	—	—	166,879	—	297,121
B . . . . .	3,681,699	—	—	—	—	—	—	—	—	—	—	717,141	—	297,121
C . . . . .	6,361,012	—	—	—	—	—	—	—	—	—	—	1,159,861	—	—
D . . . . .	661,404	—	538,600	—	—	—	—	—	—	—	—	122,804	—	—
F . . . . .	11,415,154	—	842,675	—	—	—	—	7,174,430	—	—	—	202,739	—	—
G . . . . .	2,847,584	—	—	374,366	—	—	—	—	—	—	—	—	—	—
H . . . . .	3,402,560	—	—	—	—	—	—	—	—	—	—	—	—	—
K . . . . .	3,207,703	—	—	—	—	—	—	—	—	—	—	—	—	—
L . . . . .	3,378,810	—	—	—	—	—	—	3,378,810	—	—	—	—	—	—
M . . . . .	4,011,388	—	—	—	—	—	—	3,553,230	—	—	—	—	—	—
N . . . . .	6,601,839	—	—	—	—	—	—	—	—	—	—	—	—	—
O . . . . .	907,287	—	—	—	—	—	—	—	—	—	—	—	—	—
R . . . . .	4,900,765	—	—	—	—	—	—	—	—	—	—	—	—	—
S . . . . .	23,213,856	—	—	—	—	—	—	44,800	—	—	—	79,043	—	—
T . . . . .	515,677	—	—	—	—	—	—	—	—	—	—	—	—	—
V . . . . .	3,758,749	—	—	—	—	—	—	—	—	—	—	—	—	—
Sub-Area 5														
H . . . . .	40,701	—	—	—	—	—	—	—	—	—	—	—	—	40,701
J . . . . .	10,901,030	—	—	—	—	765,520	—	—	5,439	—	379,531	251,579	3,597,224	5,901,737
M . . . . .	320,349	—	—	—	—	144,041	—	—	5,439	—	—	—	—	170,869
O . . . . .	59,417	—	—	—	—	—	—	—	—	—	—	—	—	59,417
Not Recorded . . . . .	24,133,045	—	—	—	—	19,224	—	—	—	273,450	—	—	—	—
Grand Total . . . . .	263,941,738	962,174	40,384,305	374,366	3,139,606	952,388	19,734,240	53,360,730	922,379	1,029,673	7,267,853	15,765,520	9,424,953	18,890,670

**Table 30 – Total Landings of Fish by Statistical Fishing Areas for 103 Fishing Enterprises (cont'd)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
Statistical Fishing Areas												
Sub-Area 3												
K . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
L . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
M . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
N . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
O . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
P(n) . . . . .	—	—	—	—	—	—	469,252	—	—	—	—	—
P(s) . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Sub-Area 4A												
A . . . . .	—	—	—	549,318	—	139,990	2,586,271	—	—	—	—	—
B . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
C . . . . .	—	—	—	18,781	—	—	168,395	—	—	—	—	—
D . . . . .	—	—	—	336,168	—	—	—	—	—	—	—	—
E . . . . .	—	—	—	—	—	—	64,500	—	—	—	—	—
F . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
G . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
H . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
J . . . . .	—	—	—	—	—	—	61,200	—	—	—	—	—
K . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
L . . . . .	—	—	—	—	—	—	382,345	—	—	—	—	—
M . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
N . . . . .	—	—	—	382,474	—	—	911,447	—	—	—	—	—
O . . . . .	—	—	—	—	—	—	631,283	—	—	—	—	—
P . . . . .	—	—	—	—	—	—	811,219	—	—	—	—	—
Q . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
R . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
S . . . . .	—	—	—	—	—	—	—	—	—	—	—	—

**Table 30 – Total Landings of Fish by Statistical Fishing Areas for 103 Fishing Enterprises (cont'd)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
Sub-Area 4B												
A . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
B . . . . .	—	—	—	—	—	—	—	—	—	—	2,667,437	—
C . . . . .	—	—	—	—	—	—	3,675,033	—	1,223,227	—	302,891	—
D . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
F . . . . .	—	—	212,670	596,306	—	375,989	243,154	211,898	376,454	332,253	846,586	—
G . . . . .	—	—	—	—	—	1,000,665	799,548	—	257,209	—	415,796	—
H . . . . .	—	—	822,468	2,517,362	—	62,730	—	—	—	—	—	—
K . . . . .	—	—	—	—	—	72,193	—	1,302,459	979,349	735,920	117,782	—
L . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
M . . . . .	35,335	—	—	—	—	—	—	166,531	256,292	—	—	—
N . . . . .	803,408	442,713	71,028	306,147	—	—	—	3,789,209	974,517	204,122	10,695	—
O . . . . .	—	—	—	—	—	—	—	230,917	307,589	368,781	—	—
R . . . . .	—	—	—	—	—	—	—	2,454,461	1,570,727	833,884	41,693	—
S . . . . .	—	—	2,735,057	8,179,537	—	—	1,944,243	3,421,640	2,667,698	2,606,986	1,534,852	—
T . . . . .	—	—	—	—	—	—	—	—	323,962	191,715	—	—
V . . . . .	—	—	—	—	—	—	1,563,408	—	433,183	—	1,762,158	—
Sub-Area 5												
H . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
J . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
M . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
O . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Not Recorded . . . . .	—	—	—	—	736,000	1,089,171	—	—	—	—	—	22,015,200
Grand Total . . . . .	838,743	442,713	3,841,223	12,886,093	736,000	2,740,738	14,311,298	11,901,077	9,237,960	5,081,946	7,699,890	22,015,200

Table 31 – Percentage Distribution of Total Landings of Fish by Statistical Fishing Areas for 103 Fishing Enterprises  
Atlantic Provinces – 1968

Item	Total All Types	NEWFOUNDLAND		NOVA SCOTIA										
		Wooden	Steel	Wooden Vessels								Steel Vessels		
		Long-Liners	Stern Trawlers	Crabbers	Stern Druggers	Scallop Druggers	Herring Seiners		Scottish Seiners	Long-Liners	Side Trawlers	Side Trawlers		Stern Trawlers
average LOA in feet . . . . .	—	38	148	50	56	96	67	103	70	88	110	120	141	154
number of boats . . . . .	103	5	7	2	4	4	3	3	3	4	3	4	3	4
Statistical Fishing Areas	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Sub-Area 3														
K . . . . .	0.5	100.0	0.9	—	—	—	—	—	—	—	—	—	—	—
L . . . . .	7.9	—	47.7	—	—	—	—	—	—	5.7	—	4.3	—	5.0
M . . . . .	0.1	—	0.4	—	—	—	—	—	—	—	—	—	—	—
N . . . . .	2.1	—	14.1	—	—	—	—	—	—	—	—	—	—	—
O . . . . .	1.5	—	9.7	—	—	—	—	—	1.0	13.8	—	—	—	—
P(n) . . . . .	3.0	—	—	—	—	—	—	13.7	—	—	—	—	—	—
P(s) . . . . .	12.2	—	15.7	—	—	—	22.0	37.1	—	0.2	—	7.8	—	2.7
Sub-Area 4A														
A . . . . .	2.1	—	—	—	—	—	—	—	—	1.0	—	14.2	—	—
B . . . . .	0.1	—	—	—	2.1	—	—	—	—	—	—	0.7	—	—
C . . . . .	4.1	—	7.6	—	—	—	—	—	2.6	20.5	—	28.1	—	15.4
D . . . . .	0.3	—	—	—	—	—	—	—	—	—	—	—	—	1.9
E . . . . .	0.1	—	—	—	—	—	—	—	—	0.3	—	0.7	—	—
F . . . . .	0.1	—	0.5	—	—	—	—	—	4.2	3.8	0.5	0.5	—	—
G . . . . .	0.1	—	—	—	—	—	—	—	4.5	12.6	—	0.3	—	—
H . . . . .	0.5	—	—	—	—	—	—	—	2.0	0.4	—	7.2	—	0.3
J . . . . .	0.5	—	—	—	—	—	—	—	0.6	6.0	0.1	3.4	1.1	3.3
K . . . . .	0.1	—	—	—	—	—	—	—	1.0	—	0.3	0.8	—	—
L . . . . .	1.9	—	—	—	1.2	—	2.5	33.6	4.8	3.0	7.0	5.8	5.8	5.4
M . . . . .	3.6	—	—	—	1.5	—	21.3	8.3	25.5	—	0.7	—	0.5	2.5
N . . . . .	3.7	—	—	—	4.8	—	—	5.1	9.4	4.3	34.8	5.6	10.9	4.7
O . . . . .	4.4	—	—	—	6.4	—	28.5	6.8	7.2	—	14.0	1.0	3.2	0.3
P . . . . .	4.3	—	—	—	0.8	2.5	—	—	7.2	—	29.9	1.2	39.9	22.7
Q . . . . .	1.8	—	—	—	2.4	—	19.6	—	—	—	11.0	—	0.2	—
R . . . . .	1.3	—	—	—	55.3	—	8.6	—	—	—	—	—	0.4	—
S . . . . .	0.3	—	—	—	25.5	—	—	—	—	—	0.1	—	—	—
Sub-Area 4B														
A . . . . .	0.2	—	—	—	—	—	—	—	—	—	—	1.1	—	1.6
B . . . . .	1.4	—	—	—	—	—	—	—	—	—	—	4.5	—	1.6
C . . . . .	2.4	—	—	—	—	—	—	—	—	—	—	7.4	—	—
D . . . . .	0.3	—	1.3	—	—	—	—	—	—	—	—	0.8	—	—
F . . . . .	4.3	—	2.1	—	—	—	—	—	—	—	—	1.3	—	—
G . . . . .	1.1	—	—	100.0	—	—	—	13.4	—	—	—	—	—	—
H . . . . .	1.3	—	—	—	—	—	—	—	—	—	—	—	—	—
I . . . . .	1.2	—	—	—	—	—	—	—	—	—	—	—	—	—
L . . . . .	1.3	—	—	—	—	—	—	6.3	—	—	—	—	—	—
M . . . . .	1.5	—	—	—	—	—	—	6.7	—	—	—	—	—	—
N . . . . .	2.5	—	—	—	—	—	—	—	—	—	—	—	—	—
O . . . . .	0.3	—	—	—	—	—	—	—	—	—	—	—	—	—
R . . . . .	1.9	—	—	—	—	—	—	—	—	—	—	—	—	—
S . . . . .	8.8	—	—	—	—	—	—	—	—	—	—	—	—	—
T . . . . .	0.2	—	—	—	—	—	—	0.1	—	—	—	0.5	—	—
V . . . . .	1.4	—	—	—	—	—	—	—	—	—	—	—	—	—
Sub-Area 5														
H . . . . .	0	—	—	—	—	—	—	—	—	—	—	—	—	0.2
J . . . . .	4.1	—	—	—	—	—	—	—	0.6	—	5.2	1.6	38.2	31.2
M . . . . .	0.1	—	—	—	—	—	—	—	0.6	—	—	—	—	0.9
O . . . . .	0	—	—	—	—	—	—	—	—	—	—	—	—	0.3
Not Recorded	9.1	—	—	—	—	2.0	—	—	—	26.6	—	—	—	—
Grand Total . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

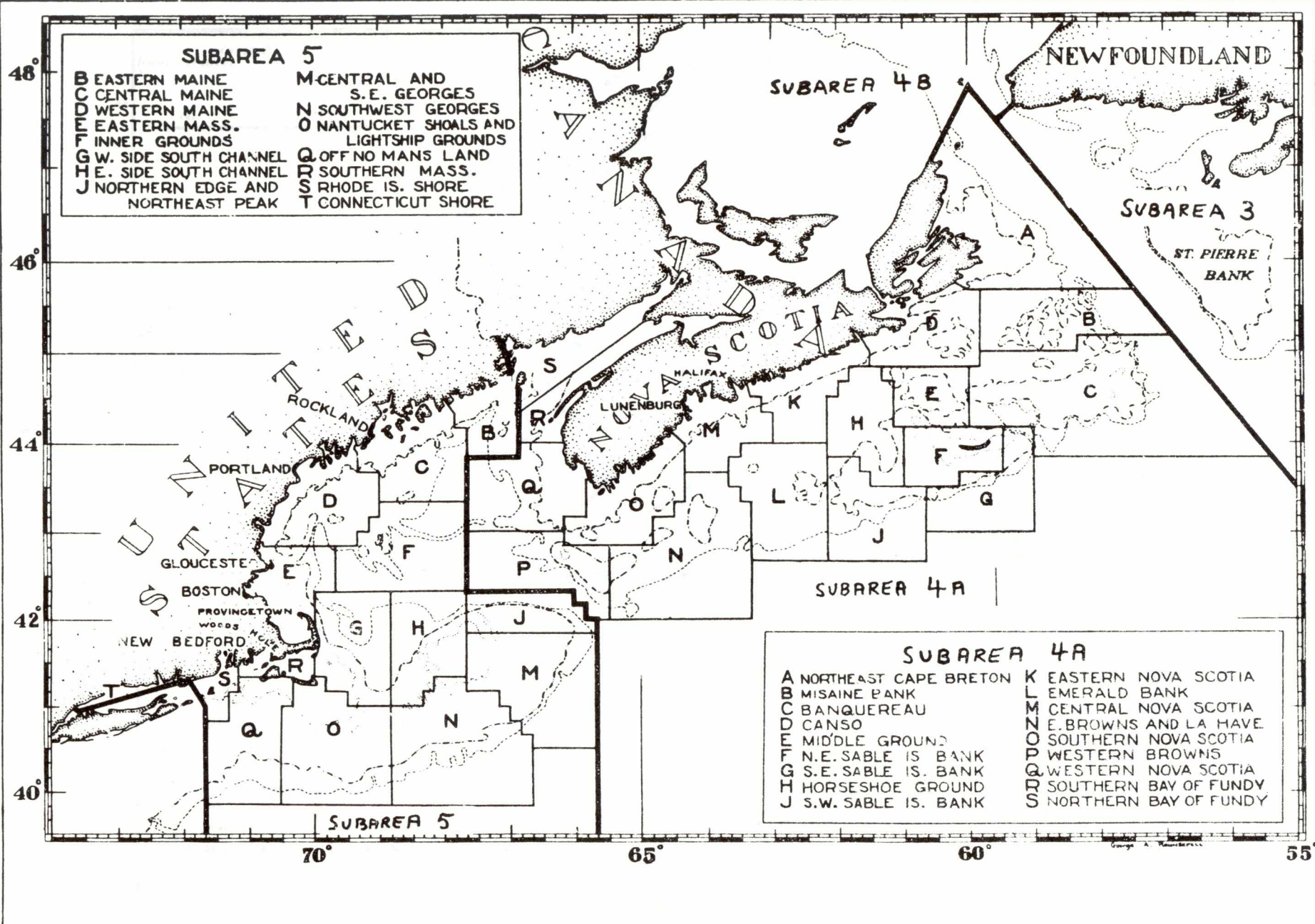
0 Less Than one-half of 0.1%.

**Table 31 – Percentage Distribution of Total Landings of Fish by Statistical Fishing Areas for 103 Fishing Enterprises (cont'd)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	%	%	%	%	%	%	%	%	%	%	%	%
<b>Statistical Fishing Areas</b>												
<b>Sub-Area 3</b>												
K . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
L . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
M . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
N . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
O . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
P(n) . . . . .	—	—	—	—	—	—	3.3	—	—	—	—	—
P(s) . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
<b>Sub-Area 4A</b>												
A . . . . .	—	—	—	4.3	—	5.1	18.1	—	—	—	—	—
B . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
C . . . . .	—	—	—	0.1	—	—	1.2	—	—	—	—	—
D . . . . .	—	—	—	2.6	—	—	—	—	—	—	—	—
E . . . . .	—	—	—	—	—	—	0.4	—	—	—	—	—
F . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
G . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
H . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
J . . . . .	—	—	—	—	—	—	0.4	—	—	—	—	—
K . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
L . . . . .	—	—	—	—	—	—	2.7	—	—	—	—	—
M . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
N . . . . .	—	—	—	3.0	—	—	6.3	—	—	—	—	—
O . . . . .	—	—	—	—	—	—	4.4	—	—	—	—	—
P . . . . .	—	—	—	—	—	—	5.7	—	—	—	—	—
Q . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
R . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
S . . . . .	—	—	—	—	—	—	—	—	—	—	—	—

**Table 31 – Percentage Distribution of Total Landings of Fish by Statistical Fishing Areas for 103 Fishing Enterprises (concluded)  
Atlantic Provinces – 1968**

Item	NEW BRUNSWICK				PRINCE EDWARD ISLAND			QUEBEC				
	Wooden Vessels				Wooden		Steel	Wooden			Steel	
	Crabbers		Side Draggers		Side Draggers		Side Draggers	Side Draggers			Side Draggers	Herring Seiners
average LOA in feet . . . . .	49	60	72	86	60	65	93	60	65	87	82	89
number of boats . . . . .	3	2	2	6	2	5	4	15	7	2	4	2
	%	%	%	%	%	%	%	%	%	%	%	%
Sub-Area 4B												
A . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
B . . . . .	—	—	—	—	—	—	—	—	—	—	34.7	—
C . . . . .	—	—	—	—	—	—	25.7	—	13.2	—	3.9	—
D . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
F . . . . .	—	—	5.5	4.6	—	13.7	1.7	1.8	4.1	6.5	11.0	—
G . . . . .	—	—	—	—	—	36.5	5.6	—	2.8	—	5.4	—
H . . . . .	—	—	—	—	—	2.3	—	—	—	—	—	—
K . . . . .	—	—	21.4	19.5	—	2.6	—	10.9	10.6	14.5	1.5	—
L . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
M . . . . .	4.2	—	—	—	—	—	—	1.4	2.8	—	—	—
N . . . . .	95.8	100.0	1.9	2.4	—	—	—	31.8	10.5	4.0	0.1	—
O . . . . .	—	—	—	—	—	—	—	2.0	3.3	7.3	—	—
R . . . . .	—	—	—	—	—	—	—	20.6	17.0	16.4	0.6	—
S . . . . .	—	—	71.2	63.5	—	—	—	28.8	28.9	51.3	19.9	—
T . . . . .	—	—	—	—	—	—	—	2.7	2.1	—	—	—
V . . . . .	—	—	—	—	—	—	10.9	—	4.7	—	22.9	—
Sub-Area 5												
H . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
J . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
M . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
O . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Not Recorded . . . . .	—	—	—	—	100.0	39.8	—	—	—	—	—	100.0
Grand Total . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0



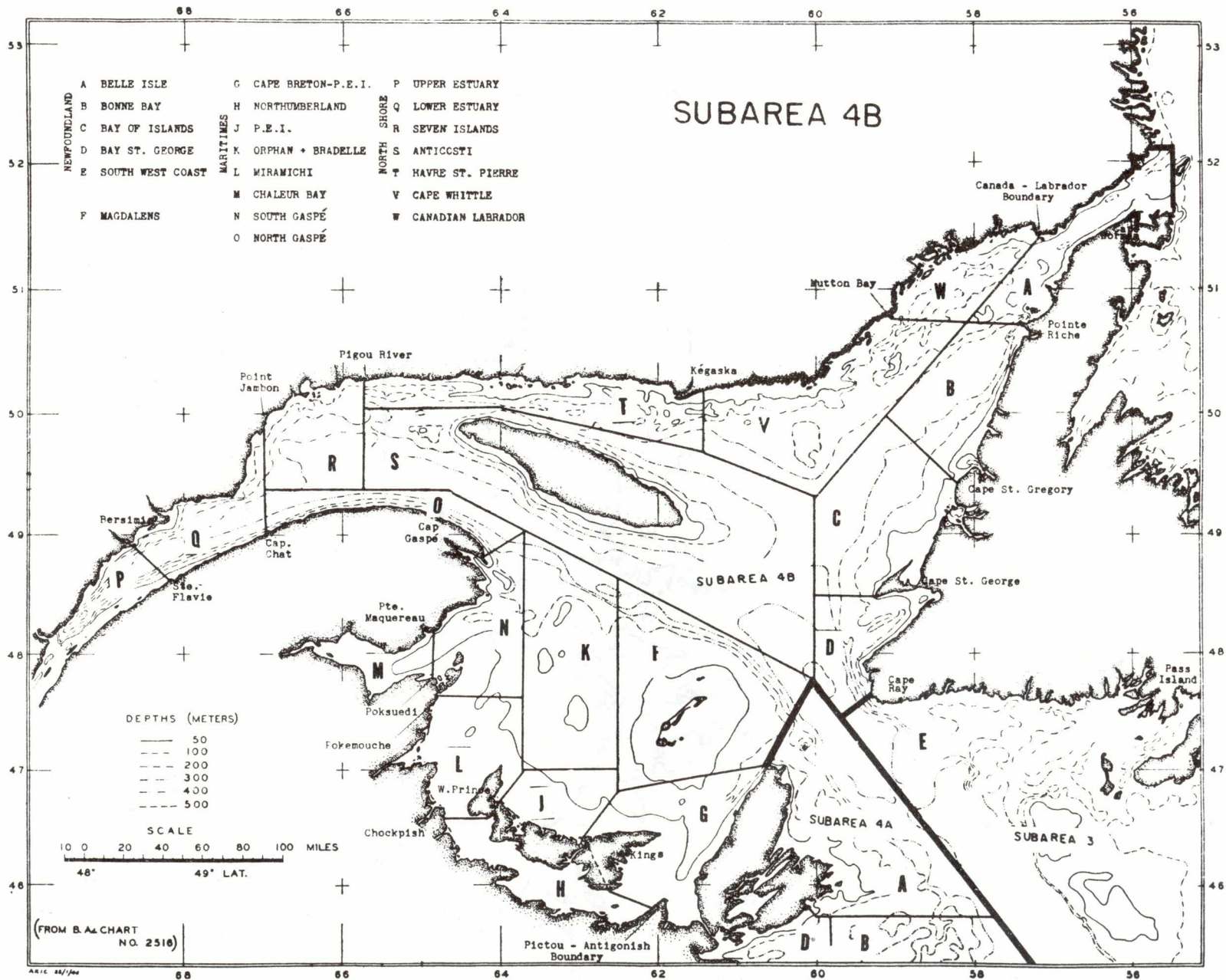
**SUBAREA 5**

B EASTERN MAINE	M CENTRAL AND S.E. GEORGES
C CENTRAL MAINE	N SOUTHWEST GEORGES
D WESTERN MAINE	O NANTUCKET SHOALS AND LIGHTSHIP GROUNDS
E EASTERN MASS.	Q OFF NO MANS LAND
F INNER GROUNDS	R SOUTHERN MASS.
G W. SIDE SOUTH CHANNEL	S RHODE IS. SHORE
H E. SIDE SOUTH CHANNEL	T CONNECTICUT SHORE
J NORTHERN EDGE AND NORTHEAST PEAK	

**SUBAREA 4A**

A NORTHEAST CAPE BRETON	K EASTERN NOVA SCOTIA
B MISAINE BANK	L EMERALD BANK
C BANQUEREAU	M CENTRAL NOVA SCOTIA
D CANSO	N E. BROWNS AND LA HAVE
E MIDDLE GROUND	O SOUTHERN NOVA SCOTIA
F N.E. SABLE IS. BANK	P WESTERN BROWNS
G S.E. SABLE IS. BANK	Q WESTERN NOVA SCOTIA
H HORSESHOE GROUND	R SOUTHERN BAY OF FUNDY
J S.W. SABLE IS. BANK	S NORTHERN BAY OF FUNDY

George A. Macmillan



**Table 32 – Total Fishing Effort and Landings of Fish by Months for 5 Newfoundland Wooden Longliners  
(38-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days		Hours Fishing		No. of Lines	No. of Nets	No. of Sets		Total Landings in Pounds						
			at Sea	Fished	Long-lining	Gill-netting			Long-lining	Gill-netting	Cod	Hali-but	Turbot	Flounders	Wolffish	Livers and Roe	Totals
May	4	12	12	12	84	—	553	—	12	—	28,006	—	786	686	112	1,735	31,325
June	5	75	75	75	559	—	4,085	—	75	—	146,345	—	18,082	9,076	2,952	8,193	184,648
July	5	92	92	92	735	—	6,092	—	92	—	127,075	5	142,523	3,627	4,540	7,399	285,169
August	5	49	49	49	197	176	1,774	272	27	22	23,437	—	93,608	15,473	7,001	1,507	141,026
September	5	70	70	70	—	553	—	1,058	—	70	36,875	—	174,396	43,665	734	2,267	257,937
October	5	15	15	15	—	115	—	266	—	15	11,068	—	48,440	1,975	175	411	62,069
<b>Totals</b>	—	313	313	313	1,575	844	12,504	1,596	206	107	372,806	5	477,835	74,502	15,514	21,512	962,174

**Table 33 – Total Fishing Effort and Landings of Fish by Months for 7 Newfoundland Steel Stern Trawlers  
(148-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days		Hours Actual Fishing	No. of Sets	Total Landings in Pounds										
			At Sea	Fished			Cod	Haddock	Pollock	Hake	Halibut	Turbot	Flounders	Wolffish	Redfish	Un-classified	Totals
January	6	13	113	87	1,217	608	68,772	22,655	1,470	500	11,507	—	2,329,854	2,556	11,691	254,840	2,703,845
February	7	17	145	116	1,650	826	1,431,444	139,912	6,478	21,000	39,645	248	1,729,102	23,621	88,780	87,954	3,568,184
March	7	19	168	133	1,971	1,001	1,713,477	20,700	28,122	34,300	26,274	—	1,942,093	27,177	244,815	101,010	4,137,968
April	7	14	129	107	1,620	848	2,298,393	173,385	541	13,100	14,907	—	724,467	23,063	83,408	109,256	3,440,520
May	6	16	159	129	1,932	967	631,420	1,741	—	1,500	466	—	2,497,051	10,229	—	472,924	3,615,331
June	7	17	164	132	2,055	1,080	1,239,622	—	—	—	—	322	2,273,728	65,920	7,687	261,690	3,848,969
July	7	18	182	144	2,144	1,106	869,266	—	—	—	9	—	2,349,797	112,204	43,183	208,873	3,583,332
August	7	18	169	130	1,966	1,004	802,981	117,101	—	1,425	2,380	—	2,493,358	26,640	10,842	359,221	3,813,948
September	6	16	165	138	2,080	1,070	661,880	—	—	—	10,355	—	1,993,102	23,212	171,800	264,390	3,124,739
October	7	17	171	137	1,979	980	566,753	22,406	—	—	77,920	7,030	1,827,743	60,231	234,388	210,295	3,006,766
November	7	16	148	113	1,616	802	629,765	—	—	—	19	28,196	1,864,730	59,550	26,945	175,287	2,784,492
December	7	16	155	121	1,804	898	457,548	236,376	607	—	2,473	4,195	1,811,653	23,080	5,518	214,761	2,756,211
<b>Totals</b>	—	197	1,868	1,487	22,034	11,190	11,371,321	734,276	37,218	71,825	185,955	39,991	23,836,678	457,483	929,057	2,720,501	40,384,305

**Table 34 – Total Fishing Effort and Landings of Fish by Months for 2 Nova Scotia Wooden Crabbers  
(50-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days		Hours Fishing		No. of Sets		No. of Traps	Total Landings in Pounds						
			At Sea	Fished	Danish Seining	Crab-bing	Danish Seining	Crab-bing		Cod	Haddock	Hake	Flounders	Crab	Un-classified	Totals
May	2	8	20	20	130	25	13	7	150	3,994	144	3,182	64,014	30,715	400	102,449
June	2	17	17	17	—	85	—	17	510	—	—	—	—	85,875	—	85,875
July	2	23	23	23	—	115	—	23	690	225	—	—	—	82,081	—	82,306
August	2	20	20	20	—	100	—	20	600	192	—	—	—	36,181	—	36,373
September	2	23	23	23	—	228	—	23	690	249	—	—	—	41,020	—	41,269
October	1	1	2	2	12	—	5	—	—	38	—	—	9,295	—	—	9,333
December	1	2	4	4	30	—	13	—	—	14,043	—	4	2,714	—	—	16,761
<b>Totals</b>	—	94	109	109	172	553	31	90	2,640	18,741	144	3,186	76,023	275,872	400	374,366

**Table 35 – Total Fishing Effort and Landings of Fish by Months for 4 Nova Scotia Wooden Stern Dragger  
(56-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days		Hours Actual Fishing	No. of Sets	Total Landings in Pounds									
			At Sea	Fished			Cod	Haddock	Pollock	Hake	Cusk	Halibut	Flounders	Wolffish	Redfish	Totals
March	2	3	5	5	55	24	1,191	32,111	1,016	—	1,298	—	506	—	—	36,122
April	3	13	28	28	202	99	6,277	163,756	22,546	—	1,287	—	423	1,749	—	196,038
May	4	30	55	55	418	199	118,187	225,128	20,570	488	861	100	19,269	56,037	—	440,640
June	4	23	54	53	320	172	137,723	290,691	137,839	—	498	129	6,173	1,168	—	574,221
July	4	16	37	35	281	119	121,761	141,925	348,019	—	350	25	2,401	1,276	263	616,020
August	4	28	58	57	420	198	160,215	362,391	111,990	—	270	266	7,835	962	500	644,429
September	4	20	37	37	248	143	53,290	181,117	73,173	35	15	—	14,234	50	—	321,914
October	4	17	36	35	235	122	69,950	151,432	43,090	160	295	—	7,330	605	—	272,862
November	2	2	4	4	31	15	4,895	9,820	—	—	—	—	220	—	—	14,935
December	1	2	5	5	30	17	7,295	14,980	—	—	—	—	150	—	—	22,425
<b>Totals</b>	—	154	319	314	2,240	1,108	680,784	1,573,351	758,243	683	4,874	520	58,541	61,847	763	3,139,606

**Table 36 – Total Fishing Effort and Landings of Fish by Months for 4 Nova Scotia Wooden Scallop Dragers  
(96-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days		Hours Fishing		No. of Sets	Total Landings
			At Sea	Fished	Bottom	Water		Scallop <sup>1</sup>
January	1	1	9	7	298	368	386	9,665
February	2	3	44	38	486	692	805	26,887
March	4	4	50	42	750	1,114	1,404	63,511
April	4	6	79	68	1,171	1,619	2,169	110,622
May	4	8	107	94	1,462	2,209	2,829	181,896
June	4	4	56	52	843	1,288	1,557	100,152
July	4	8	108	99	1,671	2,340	2,935	174,981
August	3	3	39	34	563	773	909	46,919
September	3	4	52	47	919	1,142	1,217	55,969
October	4	7	85	76	1,321	1,753	2,109	102,405
November	4	7	65	52	835	1,177	1,450	40,660
December	4	5	53	45	1,038	1,343	1,469	38,721
Totals	—	60	747	654	11,357	15,818	19,239	952,388

<sup>1</sup> Shucked.

**Table 37 – Total Fishing Effort and Landings of Fish by Months for 3 Nova Scotia Wooden Herring Seiners  
(67-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days <sup>1</sup>		Hours Actual Fishing <sup>1</sup>	No. of Sets <sup>1</sup>	Total Landings
			At Sea	Fished			Herring
January	1	3	—	—	—	—	1,660,940
February	1	5	—	—	—	—	1,491,200
April	1	2	—	—	—	—	230,000
June	3	26	14	14	149	40	2,008,020
July	3	51	37	37	495	122	4,742,620
August	3	66	46	46	573	151	6,675,160
September	3	18	13	13	160	42	1,765,580
October	2	3	2	2	24	6	196,320
December	1	4	—	—	—	—	964,400
Totals	—	178	112	112	1,401	361	19,734,240

<sup>1</sup> Two enterprises reporting.

**Table 38 – Total Fishing Effort and Landings of Fish by Months for 3 Nova Scotia Wooden Herring Seiners  
(103-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days		Hours Actual Fishing	No. of Sets	Total Landings
			At Sea	Fished			Herring
January	3	19	63	37	146	47	6,765,560
February	3	16	57	25	118	36	5,098,600
March	3	14	68	30	103	33	4,158,520
April	3	6	38	19	83	28	1,946,120
May	2	5	22	8	47	14	1,584,680
June	2	4	14	9	44	14	597,360
July	3	30	50	34	176	52	5,078,000
August	3	45	66	38	195	51	9,710,780
September	3	18	52	36	218	54	5,915,280
October	1	1	3	2	11	3	660,000
November	3	11	32	11	45	18	3,670,930
December	3	20	55	24	95	38	8,174,900
Totals	—	189	520	273	1,281	388	53,360,730

**Table 39 – Total Fishing Effort and Landings of Fish by Months for 3 Nova Scotia Wooden Scottish Seiners  
(70-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days		Hours Fishing		No. of Sets		No. of Lines	Total Landings in Pounds															
			At Sea	Fished	Seining	Long-lining	Seining	Long-lining		Cod	Haddock	Pollock	Hake	Cusk	Halibut	Flounders	Wolfish	Redfish	Sword-fish	Tuna	Shark	Un-classified	Totals		
January	1	1	4	4	52	—	24	—	—	7,000	6,530	—	—	—	—	282	—	—	—	—	—	—	—	—	13,812
March	3	6	23	21	179	—	76	—	—	26,252	88,160	110	1,079	700	159	33,126	600	—	—	—	—	—	—	—	150,186
April	3	6	28	24	175	—	67	—	—	49,451	82,855	170	434	99	342	24,493	5,775	—	—	—	—	—	—	—	168,702
May	3	15	52	47	370	—	167	—	—	55,885	158,944	220	1,450	640	360	69,662	3,219	—	—	—	—	—	—	—	295,686
June	3	4	28	20	81	116	32	9	2,340	5,845	1,900	135	—	—	—	53,714	400	300	10,878	—	—	—	—	—	85,346
July	3	5	56	44	—	588	—	44	9,714	—	—	—	—	—	—	—	—	—	—	—	—	—	2,511	39	51,142
August	2	4	46	39	—	364	—	39	9,812	—	—	—	—	—	—	—	—	—	—	—	—	—	998	927	61,448
September	3	6	80	57	—	655	—	57	14,415	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	96,057
Totals	—	47	317	256	857	1,723	366	149	36,281	144,433	338,389	635	2,963	1,439	861	181,277	9,994	4,765	213,281	5,278	966	18,098	—	—	922,379

**Table 40 – Total Fishing Effort and Landings of Fish by Months for 4 Nova Scotia Wooden Longliners  
(88-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days		Hour Fishing		No. of Sets		No. of Lines		Total Landings in Pounds																						
			At Sea	Fished	Ground Fishing	Sword Fishing	Ground Fishing	Sword Fishing	Ground Fishing	Sword Fishing	Cod	Haddock	Hake	Cusk	Halibut	Turbot	Wolf-fish	Red-fish	Sword-fish	Tuna	Shark	Totals											
January	2	2	30	14	196	—	14	—	1,814	—	4,279	—	—	1,212	11,320	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16,811	
February	4	5	78	46	488	124	48	9	4,824	8,540	11,585	—	8,477	5,451	46,479	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	85,231	
March	4	8	89	57	737	90	69	6	7,043	5,120	9,384	—	9,190	2,970	48,620	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	74,786	
April	4	6	95	59	260	580	17	42	3,215	38,669	6,878	—	—	—	8,936	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	87,751	
May	4	5	88	45	—	664	—	45	—	53,567	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53,825	
June	4	5	64	45	—	665	—	45	—	30,136	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60,562	
July	4	8	126	89	—	1,224	—	88	—	48,075	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	117,009	
August	4	4	62	48	—	620	—	48	—	29,664	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	184,191	
September	4	8	129	90	—	1,328	—	89	—	58,045	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	117,009	
October	4	5	68	47	—	617	—	47	—	29,909	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	120,518	
November	3	3	49	37	—	518	—	37	—	26,670	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	75,193	
December	2	2	32	23	202	117	41	9	1,186	2,280	7,880	—	—	—	6,523	520	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21,644	
Totals	—	61	910	600	1,883	6,548	189	465	18,082	330,675	40,006	35	17,667	9,633	121,878	520	1,371	1,220	783,337	52,048	1,958	—	—	—	—	—	—	—	—	—	—	—	1,029,673

**Table 41 – Total Fishing Effort and Landings of Fish by Months for 3 Nova Scotia Wooden Side Trawlers  
(110-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days		Hours Actual Fishing	No. of Sets	Total Landings in Pounds																										
			At Sea	Fished			Cod	Haddock	Pollock	Hake	Cusk	Halibut	Flounders	Wolffish	Redfish	Squid	Unclassified	Totals															
January	3	6	44	36	484	228	56,005	375,255	12,325	570	3,325	973	40,085	940	2,740	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	492,948	
February	3	5	39	36	494	228	54,280	370,820	14,105	195	6,095	1,941	20,130	1,600	2,125	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	472,066
March	3	8	69	62	778	377	181,025	508,720	193,570	190	10,135	4,457	12,910	2,625	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	913,657
April	3	7	67	61	814	394	290,055	541,460	71,740	495	9,740	3,140	30,770	17,415	11,780	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	978,125
May	3	8	69	65	885	376	313,510	226,525	20,325	35	2,035	1,722	10,705	11,725	157,925	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	744,507
June	3	7	59	55	815	351	273,985	141,730	216,690	615	4,285	512	7,835	5,245	297,495	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	952,837
July	3	5	37	36	430	189	80,800	71,630	113,420	4,115	3,130	202	4,010	1,310	216,260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	497,972
August	3	7	67	62	809	367	85,200	91,075	523,865	5,685	7,200	1,381	10,390	1,225	284,075	5,920	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,082,941
September	2	3	31	24	331	149	65,395	63,575	49,045	2,360	1,830	296	6,430	140	85,113	475	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	305,211
October	2	5	34	31	381	171	47,990	73,515	70,210	115	3,650	310	4,765	340	8,704	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	209,599
November	3	8	57	49	604	270	74,905	123,829	61,190	1,825	8,420	696	15,520	3,325	32,520	235	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	324,925
December	3	6	47	43	534	214	77,960	110,656	73,050	3,635	3,090	499	10,570	2,895	10,710	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	293,065
Totals	—	75	620	560	7,359	3,314	1,601,110	2,698,790	1,419,535	19,835	62,935	16,129	174,120	48,785	1,109,472	6,630	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7,267,853

**Table 42 – Total Fishing Effort and Landings of Fish by Months for 4 Nova Scotia Steel Side Trawlers  
(120-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days		Hours Actual Fishing	No. of Sets	Total Landings in Pounds										
			At Sea	Fished			Cod	Haddock	Pollock	Hake	Cusk	Halibut	Flounders	Wolffish	Redfish	Unclassified	Totals
January	4	7	66	55	770	372	506,946	42,888	39,456	100	737	2,472	442,861	1,943	23,455	74,987	1,135,845
February	4	10	75	60	935	467	754,659	51,175	13,673	376	—	2,063	527,805	4,665	68,024	21,638	1,444,078
March	4	11	102	79	1,055	563	516,852	325,153	128,667	1,848	1,964	7,836	1,004,079	9,091	67,943	37,857	2,101,290
April	4	11	104	84	1,141	572	597,351	400,216	73,333	1,894	4,510	4,636	443,104	27,438	19,367	20,527	1,592,376
May	4	8	82	64	982	507	780,625	230,296	105,918	615	1,335	7,836	187,548	23,720	60,830	38,009	1,436,732
June	4	11	103	81	1,226	619	463,435	143,769	92,763	516	1,030	6,692	315,721	12,501	193,619	24,335	1,549,381
July	4	9	89	67	1,036	536	463,478	97,420	5,130	55	455	2,473	584,461	12,650	37,385	27,998	1,231,505
August	4	8	77	63	918	464	49,593	83,025	6,130	845	420	854	606,490	6,133	337,783	34,407	1,125,680
September	4	7	68	54	755	402	304,218	23,840	1,110	—	375	273	316,805	495	294,735	63,385	1,005,236
October	3	7	68	47	724	377	259,865	1,285	—	175	—	118	661,293	2,565	87,570	36,322	1,049,193
November	4	10	91	69	1,010	505	82,026	5,164	30	20	—	362	819,156	565	178,195	37,275	1,122,793
December	4	8	70	53	788	393	138,702	84,715	355	4,855	—	77	694,645	5,690	23,224	19,148	971,411
Totals	—	107	995	776	11,340	5,777	5,212,750	1,488,946	466,565	11,299	10,826	35,692	6,603,968	107,456	1,392,130	435,888	15,765,520

**Table 43 – Total Fishing Effort and Landings of Fish by Months for 3 Nova Scotia Steel Side Trawlers  
(141-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days		Hours Actual Fishing	No. of Sets	Total Landings in Pounds											
			At Sea	Fished			Cod	Haddock	Pollock	Hake	Cusk	Halibut	Flounders	Wolffish	Redfish	Monkfish	Unclassified	Totals
January	3	6	56	45	685	442	198,290	409,505	26,325	1,775	6,900	2,529	43,695	4,565	6,885	—	2,650	703,119
February	3	8	72	62	913	581	231,535	673,760	73,340	5,015	4,550	2,984	57,725	5,690	17,255	355	3,860	1,076,069
March	3	8	76	60	922	553	271,180	860,235	220,715	2,760	11,095	7,096	27,530	7,645	11,566	—	8,619	1,428,441
April	3	7	70	60	925	546	323,080	686,220	105,925	2,520	8,065	4,480	25,315	25,190	1,740	—	4,525	1,187,060
May	3	4	40	31	469	269	169,895	244,945	9,140	35	865	1,410	10,075	16,845	390	—	2,350	455,950
June	3	6	56	47	682	429	375,455	247,805	44,405	115	360	2,013	14,430	8,260	—	—	4,700	697,543
July	3	8	74	64	924	571	478,370	255,465	24,475	30	593	2,576	15,720	3,955	10	—	20,010	801,204
August	3	9	75	64	911	555	220,015	294,245	29,365	455	1,950	2,458	8,775	2,765	56,960	—	8,840	625,828
September	3	9	76	61	886	531	409,398	247,140	5,130	—	3,010	1,521	6,670	1,895	3,620	—	26,460	704,844
October	3	9	85	64	900	576	534,860	232,175	9,395	1,635	1,720	2,613	24,445	2,735	270	—	16,530	826,378
November	3	6	53	36	507	299	156,380	124,415	51,530	905	7,455	2,123	32,675	3,470	96,420	—	11,845	487,218
December	3	6	58	44	613	366	192,580	166,320	30,460	2,915	4,075	2,379	23,815	3,975	2,445	—	2,335	431,299
Totals	—	86	791	638	9,337	5,718	3,561,038	4,442,230	630,205	18,160	50,638	34,182	290,870	86,990	197,561	355	112,724	9,424,953

**Table 44 – Total Fishing Effort and Landings of Fish by Months for 4 Nova Scotia Steel Stern Trawlers  
(154-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days		Hours Actual Fishing	No. of Sets	Total Landings in Pounds											
			At Sea	Fished			Cod	Haddock	Pollock	Hake	Cusk	Halibut	Flounders	Wolffish	Redfish	Monkfish	Unclassified	Totals
January	4	9	88	74	1,161	659	647,636	527,908	53,005	1,015	8,715	3,514	296,040	8,068	58,379	—	8,700	1,612,980
February	4	9	87	72	1,133	682	348,311	810,090	104,735	1,980	6,683	6,257	371,130	7,850	11,340	140	6,150	1,674,666
March	4	10	99	83	1,348	818	433,889	1,742,798	304,200	2,815	18,800	19,292	47,778	11,152	58,444	—	13,011	2,652,179
April	4	11	109	91	1,378	866	789,582	1,188,185	353,673	3,180	5,445	13,168	110,500	40,826	12,827	—	24,580	2,541,966
May	4	8	73	62	920	551	352,826	483,679	53,665	240	1,400	2,380	595,507	23,453	113,554	25	19,371	1,646,100
June	4	10	106	88	1,315	839	682,606	427,629	106,481	—	1,450	5,844	540,130	21,992	157,190	—	11,210	1,954,532
July	4	8	82	65	925	583	624,467	330,861	31,280	—	615	1,753	256,162	3,067	530	—	107,496	1,356,231
August	4	6	53	40	593	354	117,285	179,550	13,905	150	2,160	1,202	49,185	1,048	335,565	—	4,625	704,675
September	3	8	70	60	969	607	234,780	460,505	61,215	350	9,360	2,472	2,285	1,840	46,005	—	13,260	832,072
October	3	9	77	65	1,034	662	809,440	273,175	23,285	3,955	6,910	2,450	39,275	1,255	12,682	—	25,688	1,198,115
November	4	10	94	78	1,164	690	322,376	309,403	327,781	—	13,263	1,777	387,773	3,104	98,972	—	16,582	1,481,031
December	4	8	75	61	957	550	347,275	207,349	188,905	7,367	6,750	2,589	325,666	7,033	119,753	—	23,436	1,236,123
Totals	—	106	1,012	839	12,897	7,861	5,710,473	6,941,132	1,622,130	21,052	81,551	62,698	3,021,431	130,688	1,025,241	165	274,109	18,890,670

**Table 45 – Total Fishing Effort and Landings of Fish by Months for 3 New Brunswick Wooden Crabbers  
(49-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days		Hours Fishing		Hours Traps in Water	No. of Sets		No. of Traps	Total Landings in Pounds			
			At Sea	Fished	Dragging	Crabbing		Dragging	Crabbing		Cod	Flounders	Crab	Totals
May	3	20	47	47	206	149	752	103	32	895	32,160	16,527	88,175	136,862
June	3	33	59	59	—	313	1,813	—	59	1,870	—	—	157,729	157,729
July	3	49	75	75	—	438	1,567	—	75	2,631	—	—	151,138	151,138
August	3	48	77	77	—	450	1,570	—	77	2,702	—	—	153,665	153,665
September	3	37	73	73	—	439	1,351	—	73	2,637	—	—	121,428	121,428
October	3	27	53	53	—	302	1,137	—	53	1,814	—	—	92,308	92,308
November	2	7	13	13	—	71	288	—	13	426	—	—	25,613	25,613
Totals	—	221	397	397	206	2,162	8,478	103	382	12,975	32,160	16,527	790,056	838,743

**Table 46 – Total Fishing Effort<sup>1</sup> and Landings of Fish by Months  
for 2 New Brunswick Wooden Crabbers  
(60-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	Total Landings
		Crab
May .....	2	93,711
June .....	2	107,541
July .....	2	47,756
August .....	2	65,930
September .....	2	58,289
October .....	2	50,029
November .....	2	19,457
Totals .....	—	442,713

<sup>1</sup> Fishing effort not available.

**Table 47 – Total Fishing Effort and Landings of Fish by Months for 2 New Brunswick Wooden Side Draggers  
(72-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days		Hours Actual Fishing	No. of Sets	Total Landings in Pounds									
			At Sea	Fished			Cod	Haddock	Hake	Halibut	Turbot	Flounders	Wolffish	Redfish	Unclassified	Totals
May .....	1	4	35	33	455	155	88,120	860	2,545	—	1,175	301,239	3,215	1,256	—	398,410
June .....	2	6	44	37	537	170	125,820	850	1,875	45	1,145	18,536	790	371,606	16,911	537,578
July .....	2	7	45	36	569	174	7,859	—	130	100	8,495	1,679	190	762,635	5,800	786,888
August .....	2	7	49	38	586	177	8,495	—	320	—	3,290	2,989	100	666,516	29,000	710,710
September .....	2	5	35	27	334	102	5,435	—	—	62	3,910	743	170	423,297	18,600	452,217
October .....	2	6	40	32	453	138	51,030	—	170	237	6,170	5,414	45	471,182	3,800	538,048
November .....	2	5	35	29	319	100	73,880	—	—	162	4,410	35,063	140	303,717	—	417,372
Totals .....	—	40	283	232	3,253	1,016	360,639	1,710	5,040	606	28,595	365,663	4,650	3,000,209	74,111	3,841,223

**Table 48 – Total Fishing Effort and Landings of Fish by Months for 6 New Brunswick Wooden Side Druggers  
(86-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days				Total Landings in Pounds												
			At Sea	Fished	Hours Actual Fishing	No. of Sets	Cod	Haddock	Pollock	Hake	Cusk	Halibut	Turbot	Floun- ders	Wolffish	Redfish	Unclas- sified	Totals	
March	2	4	25	23	191	174	11,065	54,445	2,170	175	2,625	1,988	670	212,236	180	5,665	29,860	321,079	
April	3	7	48	38	476	186	54,285	121,105	1,350	26,200	3,675	478	1,330	186,052	2,385	6,665	137,372	540,897	
May	6	17	147	124	1,856	733	448,435	19,400	3,370	33,115	145	1,093	2,230	986,059	3,715	35,903	123,260	1,656,725	
June	6	14	109	89	1,308	460	165,535	—	—	325	—	705	3,280	38,393	1,080	1,421,787	45,825	1,676,930	
July	6	18	132	98	1,510	535	35,395	—	—	50	—	810	13,565	1,904	120	2,202,171	37,425	2,291,440	
August	6	15	98	72	1,032	349	16,659	—	—	—	—	321	13,230	—	—	1,710,084	98,900	1,839,194	
September	6	21	161	121	1,843	601	87,795	—	—	30	—	115	7,600	1,710	130	2,399,080	43,750	2,540,210	
October	6	12	90	70	945	323	151,240	—	—	17,705	—	140	4,965	113,980	150	711,408	26,800	1,026,388	
November	5	12	74	64	813	272	228,560	110	—	665	—	285	4,995	193,300	280	391,480	3,600	823,275	
December	2	2	14	13	143	49	46,085	85	—	2,260	—	—	610	27,906	10	92,999	—	169,955	
Totals	—	122	898	712	10,117	3,682	1,245,054	195,145	6,890	80,525	6,445	5,935	52,475	1,761,540	8,050	8,977,242	546,792	12,886,093	

**Table 49 – Total Fishing Effort<sup>1</sup> and Landings of Fish by Months for 2 Prince Edward Island Wooden Side Druggers  
(60-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days at Sea	Total Landings in Pounds									
				Cod	Haddock	Pollock	Hake	Turbot	Floun- ders	Wolffish	Redfish	Unclas- sified	Totals
April	1	4	19	83,521	1,725	—	—	—	54,444	140	2,000	500	142,330
May	2	5	38	80,371	18,630	—	7,370	—	60,769	355	—	808	168,303
June	2	4	27	49,080	920	—	23,450	—	124,739	—	—	12,884	211,073
July	1	3	11	29,645	—	—	30	—	143,496	—	—	950	174,121
August	1	2	9	3,320	135	200	22,890	20	12,663	15	280	650	40,173
Totals	—	18	104	245,937	21,410	200	53,740	20	396,111	510	2,280	15,792	736,000

<sup>1</sup>Hours fishing and number of sets not available.

**Table 50 – Total Fishing Effort<sup>1</sup> and Landings of Fish by Months for 5 Prince Edward Island Wooden Side Draggers  
(65-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days At Sea	Total Landings in Pounds							Totals
				Cod	Haddock	Hake	Flounders	Wolffish	Crab	Unclassified	
April	5	5	30	230,590	6,825	—	53,684	—	—	4,800	295,899
May	5	15	96	401,578	16,705	18,480	310,001	1,637	—	5,807	754,208
June	5	14	83	166,832	5,359	82,565	256,140	450	11,983	13,755	537,084
July	5	37	105	73,124	860	175,235	249,243	—	114,393	44,201	657,056
August	4	24	37	3,940	110	68,060	20,526	—	68,816	18,244	179,696
September	5	32	50	—	—	7,300	2,995	—	169,838	400	180,533
October	4	29	62	—	—	—	—	—	118,033	—	118,033
November	2	7	7	—	—	—	—	—	18,229	—	18,229
<b>Totals</b>	—	163	470	876,064	29,859	351,640	892,589	2,087	501,292	87,207	2,740,738

<sup>1</sup>Hours fishing and number of sets not available.

**Table 51 – Total Fishing Effort and Landings of Fish by Months for 4 Prince Edward Island Steel Side Draggers  
(93-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days At Sea	Hours Actual Fishing	No. of Sets	Total Landings in Pounds										Totals	
						Cod	Haddock	Pollock	Hake	Cusk	Halibut	Turbot	Flounders	Wolffish	Redfish		Unclassified
January	4	7	66	484	245	508,705	111,740	12,705	1,205	850	110	—	19,531	1,070	360	8,225	664,501
February	4	8	60	405	201	117,250	116,185	8,190	580	1,275	2,228	—	69,155	2,515	3,600	1,215	322,193
March	4	10	92	671	301	217,875	472,870	154,945	2,105	11,095	4,505	—	12,500	7,075	4,040	61,131	948,141
April	4	10	86	828	371	537,799	196,780	50,550	215	5,710	3,189	—	96,011	13,710	890	17,900	922,754
May	4	10	88	736	328	511,442	7,317	—	7,350	—	9,134	1,290	108,814	3,464	241,644	99,072	989,527
June	4	11	82	640	273	124,708	1,730	—	15,410	—	1,812	9,535	22,237	435	1,164,038	200,465	1,540,370
July	4	10	65	522	221	2,911	—	—	—	—	147	6,055	—	—	1,385,472	257,579	1,652,164
August	4	13	83	858	343	5,461	—	—	—	—	393	—	—	—	1,666,760	263,212	1,935,826
September	4	13	89	869	357	1,140	—	—	—	—	342	—	—	—	1,627,628	342,830	1,971,940
October	4	11	78	605	259	8,305	—	—	4,635	—	175	2,380	3,632	—	1,159,982	322,481	1,501,590
November	4	9	91	590	268	33,667	—	—	200	—	—	5,855	5,413	—	783,658	158,685	987,478
December	4	9	60	558	267	720,020	—	—	—	—	—	—	24,957	—	39,480	90,357	874,814
<b>Totals</b>	—	121	940	7,766	3,434	2,789,283	906,622	226,390	31,700	18,930	22,035	25,115	362,250	28,269	8,077,552	1,823,152	14,311,298

**Table 52 – Total Fishing Effort and Landings of Fish by Months for 15 Quebec Wooden Side Draggers  
(60-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days		Hours Actual Fishing			No. of Sets			No. of Traps	Total Landings in Pounds													
			At Sea	Fished	Ground-fish	Shrimp	Crab	Ground-fish	Shrimp	Crab		Cod	Haddock	Hake	Halibut	Turbot	Flounders	Wolf-fish	Redfish	Herring	Shrimp	Crab	Unclassified	Totals	
April . . .	1	1	7	7	108	—	—	30	—	—	—	9,400	—	40	263	415	15,521	70	1,305	—	—	—	—	—	27,014
May . . .	14	41	240	201	3,434	156	—	964	58	—	—	407,734	119	15,152	4,669	24,719	554,180	4,313	357,017	20	29,228	—	—	25,323	1,422,474
June . . .	15	58	291	228	4,100	83	—	1,154	28	—	—	702,357	223	11,719	1,529	16,831	176,848	1,414	920,819	—	8,164	—	—	26,385	1,865,289
July . . .	15	67	312	241	3,633	418	—	1,012	136	—	—	481,319	75	150	2,133	52,591	49,054	593	1,514,794	—	39,534	—	—	43,136	2,183,379
August . . .	15	63	300	239	3,515	395	—	1,020	132	—	—	654,806	56	600	1,426	50,038	55,631	706	1,332,906	—	29,426	—	—	47,755	2,173,350
September . . .	15	55	297	245	3,604	380	—	1,024	114	—	—	756,341	15	405	2,033	46,951	65,007	763	1,040,215	—	13,646	—	—	6,875	1,932,251
October . . .	14	47	252	199	2,796	178	98	778	58	*	40	636,611	—	1,144	1,638	24,674	65,182	309	590,450	—	10,002	15,016	—	25,284	1,370,310
November . . .	14	40	243	168	2,042	60	320	501	20	*	149	461,958	—	315	615	23,110	156,084	45	164,268	—	3,161	62,155	—	1,670	873,381
December . . .	3	3	17	12	95	—	45	24	—	*	22	2,690	—	—	—	210	1,899	—	36,900	—	—	10,930	—	—	52,629
Totals . . .	—	375	1,959	1,540	23,327	1,670	463	6,507	546	*	211	4,113,216	488	29,525	14,306	239,539	1,139,406	8,213	5,958,674	20	133,161	88,101	176,428	—	11,901,077

\* Information not available.

**Table 53 – Total Fishing Effort and Landings of Fish by Months for 7 Quebec Wooden Side Draggers  
(65-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days		Hours Actual Fishing	No. of Sets	Total Landings in Pounds										
			At Sea	Fished			Cod	Haddock	Pollock	Hake	Halibut	Turbot	Flounders	Wolf-fish	Redfish	Unclassified	Totals
April . . . . .	3	4	28	23	419	138	145,159	675	—	70	709	1,350	115,146	80	4,534	10,324	278,047
May . . . . .	7	18	128	100	1,775	532	235,958	1,487	5	4,923	3,472	13,070	369,767	3,701	338,996	49,469	1,020,848
June . . . . .	7	28	158	121	2,072	633	198,627	86	—	2,330	1,085	14,521	94,779	1,209	1,317,279	97,015	1,726,931
July . . . . .	7	27	144	108	1,761	532	270,107	30	—	—	598	26,010	19,923	519	1,238,519	60,991	1,616,697
August . . . . .	7	26	146	106	1,772	475	317,677	—	—	—	570	40,898	19,138	4,644	1,065,728	57,549	1,506,204
September . . . . .	7	24	137	101	1,692	482	276,763	—	—	—	687	32,560	25,867	435	1,020,109	64,199	1,420,620
October . . . . .	7	22	128	93	1,464	393	293,373	—	—	250	354	28,095	32,415	315	681,602	28,448	1,064,852
November . . . . .	6	16	101	70	988	262	198,763	—	—	400	1,569	8,970	60,930	58	228,471	8,957	508,118
December . . . . .	2	2	16	11	164	37	8,045	—	—	—	587	2,245	4,306	—	80,460	—	95,643
Totals . . . . .	—	167	986	733	12,107	3,484	1,944,472	2,278	5	7,973	9,631	167,719	742,271	10,961	5,975,698	376,952	9,237,960

**Table 54 – Total Fishing Effort and Landings of Fish by Months for 2 Quebec Wooden Side Draggers  
(87-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days		Hours Actual Fishing	No. of Sets	Total Landings in Pounds								
			At Sea	Fished			Cod	Hake	Halibut	Turbot	Flounders	Wolffish	Redfish	Unclassified	Totals
April	1	1	8	7	96	30	24,775	—	764	1,745	52,614	100	1,926	—	81,924
May	2	8	47	40	709	228	156,910	620	2,596	4,565	337,053	1,194	131,220	3,571	637,729
June	2	7	42	34	562	170	28,390	—	1,135	—	5,482	107	636,184	10,520	681,818
July	2	10	46	37	644	173	21,890	—	559	11,331	7,274	—	770,517	45,807	857,378
August	2	8	41	33	496	136	74,756	—	381	8,980	2,582	101	646,064	24,022	756,886
September	2	7	41	30	448	119	1,665	—	132	8,885	832	—	692,212	—	703,726
October	2	9	58	45	676	176	151,020	100	705	11,050	14,512	305	543,020	44,295	765,007
November	2	8	46	36	480	106	96,475	125	283	10,140	42,775	166	329,939	21,217	501,120
December	1	1	9	5	80	17	1,950	—	179	—	6,677	—	87,552	—	96,358
Totals	—	59	338	267	4,191	1,155	557,831	845	6,734	56,696	469,801	1,973	3,838,634	149,432	5,081,946

**Table 55 – Total Fishing Effort and Landings of Fish by Months for 4 Quebec Steel Side Draggers  
(82-foot class)  
Atlantic Provinces – 1968**

Month	No. of Boats	No. of Trips	No. of Days		Hours Actual Fishing	No. of Sets	Total Landings in Pounds										
			At Sea	Fished			Cod	Haddock	Pollock	Hake	Halibut	Turbot	Flounders	Wolffish	Redfish	Unclassified	Totals
April	4	6	39	33	543	200	243,778	575	—	25	1,347	—	205,950	61	827	22,391	474,954
May	4	11	78	58	1,043	355	349,453	169	126	535	2,226	1,980	180,728	1,240	195,621	35,165	767,243
June	4	12	77	57	1,018	339	86,802	—	—	268	1,316	3,018	14,807	419	856,774	99,959	1,063,363
July	4	12	65	51	1,034	342	4,077	—	—	—	337	3,860	2,507	162	996,699	124,928	1,132,570
August	4	15	87	68	1,240	405	5,566	—	—	—	528	6,270	1,209	526	1,358,318	169,254	1,541,671
September	4	11	60	48	825	255	16,536	—	—	—	127	4,266	746	150	962,991	92,248	1,077,064
October	4	13	76	55	1,002	294	25,084	—	—	—	199	2,085	1,351	345	985,422	110,368	1,124,854
November	4	5	36	28	450	135	14,685	—	—	—	165	2,020	1,673	95	424,819	39,921	483,378
December	2	2	12	6	50	15	21,265	—	—	—	—	—	12,175	—	—	1,353	34,793
Totals	—	87	530	404	7,205	2,340	767,246	744	126	828	6,245	23,499	421,146	2,998	5,781,471	695,587	7,699,890